

Connah's Quay Low Carbon Power

Environmental Statement Volume IV Appendix 14-A: Geo-Environmental Desk Based Assessment (Tracked)

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1. Introduction

1.1 Overview

1.1.1 This Appendix supplements **Chapter 14: Geology and Ground Conditions** (**EN010166/APP/6.2.14**) and presents a Phase 1 Geo-Environmental Desk Based Assessment for the Proposed Development.

1.1.2 The Proposed Development is for a low carbon Combined Cycle Gas Turbine (CCGT) Generating Plant fitted with Carbon Capture Plant (CCP) on land at, and in the vicinity of, the existing Connah's Quay Power Station.

1.1.3 A description of the Proposed Development, including details of maximum parameters, is set out in **Chapter 4: The Proposed Development** (**EN010166/APP/6.2.4**).

1.1.4 The Site is located predominantly to the north of Chester Road (A548), to the north-west of the town Connah's Quay. The Repurposed CO_2 Connection Corridor and the Proposed Connection Corridor extend up to approximately 2 km west. The Proposed Development is centered on approximate National Grid Reference 327347, 371374. The Order limits and study area are presented in **Figure 14-1: Study Area Boundaries** (**EN010166/APP/6.3**).

1.1.5 The Proposed Development consists of a number of key elements, further detail of these elements is provided in **Chapter 4: The Proposed Development** (**EN010166/APP/6.2.4**). These elements are outlined below and illustrated on **Figure 14-1: Study Area Boundaries** (**EN010166/APP/6.3**):

- Main Development Area;
- Surface Water Outfall Area;
- Proposed CO_2 Connection Corridor;
- Repurposed CO_2 Connection Corridor;
- Water Connection Corridor;
- Electrical Connection Corridor;
- Surface Water Outfall Area;
- Construction & Indicative Enhancement Area (C&IEA);
- Main Development Area Access Works;
- Alternative Access to Main Development Area; ~~and~~
- Access to C&IEA; and
- Hardstanding Expansion at Connah's Quay North Jetty.

1.1.6 Note that this Appendix includes the Repurposed CO_2 Connection Corridor. This appendix was written when the extent of work required in the Repurposed CO_2 Connection Corridor was unknown. Further studies showed that existing infrastructure could be repurposed therefore no works are planned, however baseline information is still reported.

1.1.7 The locations of the three ports, and the Abnormal Indivisible Loads (AILs) ~~route~~routes (with the exception of the Hardstanding Expansion at Connah's Quay North Jetty), have been scoped out from the report as the Proposed Development does not include any excavation works in this area and therefore, they are not discussed further in this Appendix.

1.2 Report Objectives

1.2.1 This report has been prepared in general accordance with the British Standard (BS) 10175:2011+A2:2017 Investigation of potentially contaminated sites. Code of practice (Ref 1), and the Environment Agency Land Contamination Risk Management (LCRM) guidance (Ref 2).

1.2.2 This report is intended to meet the requirements of a Tier 1 Preliminary Risk Assessment as defined in LCRM and to also establish the baseline conditions at the Site; it is also a necessary precursor to any ground investigation that may be required to support the preliminary design following the Development Consent Order (DCO) application submission.

1.2.3 Current industry guidance supports the preparation of a development-specific desk study as a necessary precursor to any intrusive works for new development. The desk study defines the plausible risks that may be present on a site, and hence the need for any further remediation or investigation. By undertaking a desk study first, this ensures that subsequent intrusive works (if required) are proportionate, cost effective and designed specifically for the ground conditions expected.

1.2.4 The scope of this Appendix is to:

- review the geological, hydrological and hydrogeological setting, and other geo-environmental information obtained from ~~the~~ Groundsure ~~GIS dataset~~data (Ref 3 and Ref 4), regulator and stakeholder consultation to build up an understanding of the environmental setting and sensitivity;
- review the historical development and land use within the Order limits and in the surrounding area, with an emphasis on identifying potential on-site and off-site contamination sources;
- carry out a site inspection to identify any current potential contamination sources as well as possible indicators of contamination;
- review any previous investigation reports or studies;
- review any geo-hazards or outline geotechnical constraints;
- develop an initial Conceptual Site Model (CSM) describing significant source-pathway-receptor linkages followed by a preliminary risk assessment; and
- outline the scope of any further investigation or remediation, as required.

1.3 Sources of Information

1.3.1 This Appendix draws on information from a combination of the following sources:

- historical mapping included as part of a professional Groundsure Report provided by Groundsure (March 2024 and January 2026) presented in **Annex D** (~~Ref 3~~Ref 3 and Ref 4)[1];
- standard Groundsure Report data and site sensitivity information provided by Groundsure (in GIS data format – March 2024~~)~~ (Ref 3)[1]~~;~~ and pdf data format – January 2026 (Ref 4, included in **Annex E**));
- Cranfield Soil and AgriFood Institute (CSAI) Soilscapes website (Ref 5);
- BGS Geoindex website (Ref 6);
- British Geological Survey (BGS) Geological Mapping (Ref 7) and Memoirs (Ref 8);
- The Mining Remediation Authority (MRA) website (Ref 9);
- Contaminated Land: Applications in Real Environments (CL:AIRE) guidance (Ref 10);
- Environment Agency (EA) website (Ref 11);
- European Union website with guidance (Ref 12);
- Natural Resources Wales (NRW), DataMapWales website (Ref 13);
- Welsh Government's Planning Policy website (Ref 14);
- Flintshire County Council (FCC) website (Ref 15);
- UK radon website provided by UK Health Security Agency (Ref 16);
- Zetica website for preliminary information on unexploded ordnance (UXO) (Ref 17);
- Zetica – Pre-Desk Study Assessment presented in **Annex C**;
- National House Building Council (NHBC) guidance (Ref 18 and Ref 19);
- Construction Industry Research and Information Association (CIRIA) publication (Ref 20);
- stakeholder consultation including FCC and NRW;
- Current and recent-historical mapping from Google Earth Pro (accessed March 2024);
- Terresearch Limited, Report on Investigation of site conditions at Connah's Quay for Central Electricity Generating Board, 1962 (Ref 21);
- Foundations Engineering Ltd, Central Electricity Generating Board North West Region – Connah's Quay 400kV Substation report on site investigation, 1963 (Ref 22);
- Soil Mechanics Ltd, Site investigation for proposed 400kV Transmission line towers between Connah's Quay, Flintshire and Kirkby, Lancashire, 1963 (Ref 23);

[1] It should be noted that a limited portion of the Study Area, as described in Section 1.4, located northeast of the Repurposed CO_2 Corridor is not currently covered by the Groundsure dataset. This Appendix will be updated with the outstanding information as part of the Environmental Statement submission.

- Ground Explorations Ltd, Report on Exploration of Ground Conditions for C.E.G.B Bangor – Connah's Quay 400kV Line, 1966 (Ref 24);
- C.S. Allott & Son, Central Electricity Generating Board proposed 2,500 MW Nuclear Power Station at Connah's Quay, Flintshire, North Wales – A Civil Engineering Appreciation of the Site Volume 1, 1968 (Ref 25);
- The Cementation Co. Ltd, Report on a site investigation at Connah's Quay Power Station for the Central Electricity Generating Board, 1968 (Ref 26);
- Soil Mechanics Ltd, Site Investigation Connah's Quay for Powergen Plc, 1991 (Ref 27);
- National Grid Company Plc, Connah's Quat CCGT Banking Compound Site Investigation, 1994 (Ref 28);
- Uniper Technologies, Connah's Quay Site Report for PPC Application-MP3337SH, 2005 (Ref 29);
- RPS, Contaminated Land Due Diligence, Connah's Quay Power Station Summary Report on Behalf of E.ON UK plc (Company Number 2366970) & Uniper UK Limited (Company Number 2796628), 2015 (Ref 30);
- Uniper, 2017 Remediation of Connah's Quay A Power Station Report; 2021 (Ref 31);
- Uniper Technologies Ltd, Connah's Quay Power Station Systematic Appraisal of the Risk of Contamination in Response to Environmental Permit Condition 3.1.3, 2022 (Ref 32); and
- Uniper Hydrogen Limited, Connah's Quay Hydrogen – North Site Evaluation Report, Connah's Quay, 2022 (Ref 33).

1.4 Study Area

1.4.1 For the purposes of determining the local baseline conditions with respect to geology and ground conditions, a study area that extends 250 m from the boundary of the Order limits is adopted (see **Figure 14-1: Study Area Boundaries** (**EN010166/APP/6.3**). This is extended for hydrogeology to 1 km from the boundary of the Order limits. This is appropriate to assess the local geological and hydrogeological setting, and any influence that potential contaminated land might have on the Proposed Development or local receptors. However, the baseline conditions in terms of soil chemistry and quality, where available, will be based on information directly within the Order limits only.

1.4.2 The following figures are provided to support this Appendix (**Annex A**):

- **Figure 14A-1** – Planning Outline;
- **Figure 14A-2** – Superficial Geology and Historical Boreholes;
- **Figure 14A-3** – Bedrock Geology and Morphological Features; and
- **Figure 14A-4** – Site Walkover Photographs Indicative Locations.

1.4.3 The following annexes are provided to support this Appendix:

- **Annex A**: Figures

- **Annex B**: Site Walkover Photolog;
- **Annex C**: UXO Pre-Desk Study Assessment; ~~and~~
- **Annex D**: Historical Mapping; and
- **Annex E**: Groundsure report for the Hardstanding Expansion at Connah's Quay North Jetty.

2. Site Description and Setting

2.1 Site Setting and Surrounding Land Use

2.1.1 The Order limits cover an area of approximately 105 hectares (ha) and are currently occupied by the following features. A planning boundary plan is shown as **Figure 14A-1** (**Annex A**).

- Main Development Area: refers to the proposed CCGT and Carbon Capture Plant (CCP) site including the proposed laydown area, internal access roads, existing utilities connections for welfare use, and the existing Connah's Quay Power Station and undeveloped land west of the existing Power Station;
- Repurposed CO_2 Connection Corridor: refers to the area between the southwest corner of the Main Development Area, and the northeast corner of the Proposed CO_2 Connection Corridor; follows the route of an existing underground gas pipeline and is largely comprised of agricultural fields;
- Proposed CO_2 Connection Corridor: refers to the area surrounding the CO_2 export pipeline to be constructed, that interfaces with the Repurposed CO_2 Connection Corridor at one end, and the Flint AGI at the other; this is currently predominately occupied by agricultural land;
- Water Connection Corridor: refers to the area surrounding the existing (and location of potential replacement) abstraction and discharge infrastructure for the abstraction and discharge of cooling water sourced from the River Dee;
- Electrical Connection Corridor: refers to the area surrounding the existing electrical export transmission cable(s) that interface with the Main Development Area and the existing National Grid 400 kV Deeside Substation;
- C&IEA: refers to an area of vacant land under Applicant ownership south-east of the Main Development Area which may be used for temporary laydown during construction, and Net Biodiversity Benefit measures post-construction;
- Surface Water Outfall Area: is the area surrounding the existing artificial outfall for surface water drainage from the Main Development Area towards the Dee Estuary;
- Access to Main Development Area: comprises the existing Kelsterton Road and adjoining hardstanding immediately south of the Main Development Area, in addition to a layby off the A548 and the relict structures of a former slip-road directly between the A548 and Kelsterton Road; ~~and~~
- Alternative Access to Main Development Area and Access to C&IEA: comprises existing private access roads between the Main Development Area, the C&IEA, and the B5129~~.~~; and
- Hardstanding Expansion at Connah's Quay North Jetty: refers to the area proposed for the extension of the existing hardstanding adjacent to the north-east of Connah's Quay North Jetty.

2.1.2 Land within and surrounding the Site is generally low lying at elevations below 10 m Above Ordnance Datum (m AOD) and with very shallow gradients. The Main Development Area is generally flat with an average elevation of 7.3 m AOD.

2.1.3 Relevant features immediately within the study area are summarised in **Table 1**, below.

Table 1: Features Surrounding the Site

Area	Feature
Main Development Area	Mixed setting, with the River Dee and associated flood plain to the north-east with the Water Connection Corridor open grassland to the north-west, and residential and commercial/ light industrial sites to the south and south-west. The Chester – Holyhead railway line, Chester Road / A548 road run approximately parallel to the south-western boundary of the Main Development Area, with agricultural land beyond. The existing substation, the Electrical Connection Corridor, the Alternative Access to Main Development Area and Access to C&IEA are located immediately to the east.
Repurposed CO_2 Connection Corridor	Predominantly rural setting, with fields, farms and sporadic residential properties to the east, west and southeast. The Proposed CO_2 Connection Corridor is immediately southwest; the Main Development Area is located to the northeast. Industrial area adjacent to the east.
Proposed CO_2 Connection Corridor	Mostly surrounded by agricultural land with a property adjacent to the northern Order limits. Farm and residential buildings located approximately 70 m to the north-west and 140 m to the east.
Water Connection Corridor	River Dee to the north, west and east, with grassland and flood plains further to the north. The Main Development Area, including the existing Connah's Quay Power Station, is located to the south. The existing substation and the Electrical Connection Corridor are located immediately south. Kelsterton Brook to the west and flowing into the area, towards the River Dee.
Electrical Connection Corridor	The Main Development Area, including the existing Connah's Quay Power Station and associated infrastructure, to the west. Road A548 is located to the south, and Flintshire Bridge to the east, and the River Dee with associated flood plain, and the Water Connection Corridor, to the north.
C&IEA	Residential area to the south, with railway line immediately adjacent to the southern boundary and park with residential properties beyond. Industrial setting located to the west with substation and associated infrastructure, including the Electrical Connection Corridor and the Alternative Access to Main Development Area and Access

Area	Feature
	to C&IEA. River Dee and associated flood plain to the north and west of the area, with Flintshire Bridge to the north and north-west.
Access to Main Development Area	Chester Road (A548) adjacent to the southern boundary, and railway line crossing the northern extent and Main Development Area to the north. Residential properties located to the east of the site, and light industrial / commercial property to the west of the area.
Surface Water Outfall Area	Kelsterton Brook flowing towards the northeast; ponds to the east and north. Main Development Area, including the existing Connah's Quay Power Station, to the south.
Alternative Access to Main Development Area and Access to C&IEA	Predominantly industrial surroundings with substation along the eastern portion of the area, and the existing Connah's Quay Power Station located to the north of the western portion of the area. Residential properties to the east and west on the southern spur of the area.
Hardstanding Expansion at Connah's Quay North Jetty	Undeveloped land and pylon to the east. Jetty and associated infrastructure on-site and immediately west and south. Open storage tank 25 m to the north.

3. Site Inspection

3.1 Overview

3.1.1 An external inspection of the Site was completed by AECOM Engineers on the 25th March 2024 and 24th July 2024. The aim of the visits was to review the range of activities carried out at the Site and to record any visible potential sources of ground contamination or ground related constraints.

3.1.2 During the site visit, the AECOM Engineer was accompanied by representatives of the Applicant who provided a tour of the operational parts of the existing Connah's Quay Power Station site. Areas excluded from the walkover due to safety and access constraints included the Electrical Connection Corridor, Water Connection Corridor, the Alternative Access to Main Development Area and Access to C&IEA, and the Surface Water Outfall Area. Within the Main Development Area it was not possible to access the westernmost two fields, and permission was only available for observation of the Proposed CO_2 Connection Corridor from public areas e.g. the adjacent road. A description of the Hardstanding Expansion at Connah's Quay North Jetty is provided in Section 3.7 from photographs of this area provided by the landowner.

3.1.3 A summary of the main observations made during the site inspection is provided below. A photographic record of the visit is included as **Annex B**. The photograph locations are shown in **Figure 14A-4** (**Annex A**).

3.2 Main Development Area

3.2.1 The Main Development Area incorporates both the existing Power Station and the proposed CCGT and CCP sites to the west of the current Power Station.

3.2.2 The existing Power Station is a gas turbine Power Station; the main features of the infrastructure are the four gas turbines located on the eastern end of the Main Development Area, with four associated cooling tower runs located to the west of the turbines (Photos 2 to 7).

3.2.3 Three large water reservoirs are located at the Main Development Area, all above ground with sloped sides of either gravel or grassed materials. This is presumed to be reworked natural material. One reservoir is located to the immediate south of the turbines. The other two are connected and located to the west of the cooling tower runs (Photos 3, 19, 29, 32, 34).

3.2.4 The main offices and control rooms are located to the north-east of the turbines (Photo 11); with the entrance and security buildings located to the south, off of the access road which forms the southern boundary.

3.2.5 To the west of the Power Station is a 'contractor's yard' which includes a hardstanding carpark to its south (Photos 33, 35, 36). The contractor's yard has a gravelled laydown area for contractor portacabins with designated spaces each with a power point (Photo 37) and an asphalt roadway running east to west through the centre. An underground tank with plastic cover (Photo 35) which is a sewage treatment tank, is present in the south-eastern end of this area between the carpark and laydown area, and a cess pit is

noted to be below ground on the western side of the contractor's yard just outside of the fence within an area of gravel (Photo 40).

3.2.6 While the Main Development Area is primarily above ground level, the turbine halls have machine and service pits that run throughout the building and across the Main Development Area, and the cooling tower runs also have approximately 3 m drops in topography between the runs, which are gravel lined, and presumed to be associated with services and functioning as a bund (Photos 2, 5, 6, 7 and 9).

3.2.7 In the south-eastern end of the area is a toilet block and storage for hazardous materials and waste materials including units for storing used and full oils containers, gas cylinders and other potentially contaminative waste (Photo 21). The area also includes a laydown area for site equipment including scaffolding and barriers.

3.2.8 On the southern side of the southernmost cooling tower run a leak was noted during the walkover which has left black staining of the side of the towers building and the gravel below. This may be associated with a drainage pipe at this point (Photo 28).

3.2.9 There are a number of large tanks on site. Three large tanks are located on the north side of the turbine halls (Photo 10 and 11), and the three smaller tanks are located on the western side, off the Main Development Area through road (Photo 8). These as well as the other smaller tanks noted onsite are bunded with concrete walled bunds.

3.2.10 The fields to the west of the Power Station, are open level grassland (Photos 41 to 47). The eastern field, which was the only field able to be accessed during the site inspection, is separated from the other fields by a chain link fence with a gated access from a site road north of the contractor's yard (Photo 54).

3.2.11 The eastern field comprises rough grassland with exposed areas of gravelly soils. In the south-eastern end of the field are a series of service covers, some almost entirely overgrown. The northern end of the field has been used as a laydown area, the ground is largely bare and has had plastic grass matting placed down (Photos 5 to 59). A stockpile of soils is located at the western end of this laydown area where soils have been stripped this includes some damaged matting of the same type as the laydown area and other plastic sheeting (Photos 52 and 53).

3.3 Proposed CO_2 Connection Corridor

3.3.1 Access during the site inspection was limited to a public road view of the Proposed CO_2 Connection Corridor and Flint AGI fields.

3.3.2 The area comprises two agricultural fields separated by wooden fencing overgrown by a mature hedgerow, with a metal farm gate separating the two fields at the western side (Photo 88 and 90). The fields at the time of the site inspection were roughly grassed with boggy bare soil areas at the entrance ways (Photo 86 and 89).

3.3.3 The topography of the fields trend down to the central east side of the southern field. In this location is a small, wooded area where reeds could be

seen (Photo 87). This is anticipated to be a small pond or a marshy topographic low.

3.3.4 The area is bound to the west by wooden fencing and mature hedgerows with a ditch (approximately 1 m to 1.5 m deep) between the hedgerow and Allt-goch Lane which runs adjacent to the western boundary.

3.3.5 The north is similarly bound by hedgerows and an unnamed track with access to a yard and metal barn associated with a farm, where farm vehicles are stored. The eastern boundary largely aligns with the eastern field boundaries which follows a wooded stream, and the southern boundary lies within the southern field.

3.4 Repurposed CO_2 Connection Corridor

3.4.1 Additional walkover was undertaken on 24th July 2024 and focused in majority on areas surrounding the Repurposed CO_2 Connection Corridor and Proposed CO_2 Connection Corridor.

3.4.2 Areas of publicly accessible Oakenholt Paper Mill were inspected. The area located at the end of the Old Paper Mill Lane was noted to be filled with brambles and felled branches and secured by palisade fencing (Photo 93).

3.4.3 External inspection of industrial properties located south of the Main Development Area was undertaken and observed piles of gravel and sand (Photo 94). A large tank was also noted at the premises of Dependable Concrete. Moreover, sand overflowing from the skip at the Dependable Concrete was noted to go onto the grassed verge of Chester Road (Photos 96 to 97). Shipping containers were noted further to the north-west. Located within Bryn Thomas Cranes industrial premises, shipping containers and ponded water were noted on hard standing (Photo 98).

3.4.4 Further along Chester Road, westwards, further inspection of Oakenholt Paper Mills was undertaken. Opposite the entrance to the mill, a caravan site and small car park were noted (Photo 100).

3.4.5 A land parcel west of the Main Development Area, located along Chester Road and forming part of the Repurposed CO_2 Connection Corridor was observed from publicly accessible viewpoints. The area comprised a grassed field, with farm equipment observed in the south-western corner of that parcel. The view was mostly obstructed by vegetation and hedgerow (Photos 104 to 108). No evidence of historical gravel pits or landfill were found. Residential properties were observed at the site of historical gravel pits / waste site (Photo 109).

3.4.6 An empty parcel of land was observed on the northern end of the Leadbrook Drive (Photo 110). The area inspected indicated that earthworks and / or demolition had taken place. Further along the Leadbrook Drive, an old brick built farm building was noted, however, the view was obstructed by vegetation (Photo 115).

3.4.7 Woodland mound at the historical quarry located to the west of the Repurposed CO_2 Connection Corridor was visited (Photo 113). An empty and odourless barrel was noted (Photo 114).

3.4.8 Fields along the route of the Repurposed CO_2 Connection Corridor were inspected, however, the view was mostly obscured by vegetation. Overall, the majority of the areas inspected comprised of grassed fields, with one plot comprising corn field (Photos 121 to 124 and 133).

3.4.9 Allt-Goch Brook was noted in the proximity of the woodland area (Photo 117). The brook was observed to be culverted further to the north (Photo 118). A drainage channel along the field was also noted (Photo 120). Further to the west, evidence of ponding was noted and slight sheen was observed (Photo 119). Horses were observed grazing in the area.

3.4.10 Little Leadbrook Farm buildings were observed from distance (Photos 128 and 131), and a pond was noted south of the Little Leadbrook Farm (Photo 129). Further to the south, an area of former sand pits with ponds was observed from a distance (Photo 130).

3.4.11 A pond was noted at a farm located at the intersection of Allt-goch Lane and Coed Omn Road (Photo 138). Further towards the north-west, the farm on Coed Omn Road was noted (Photos 139 and 140). Silage bales and a muck pile at the site of a historical heap / pit / gravel pit to the north of Coed Omn Road (Photo 140) were noted.

3.4.12 Fly-tipped material was noted at the land entrance of the Proposed CO_2 Connection Corridor, at the junction of Llwyn Owen and Allt-goch Lane (Photos 142 and 143).

3.4.13 Land for the Proposed CO_2 Connection Corridor comprised of grassed field (Photos 141 and 144), with soft and wet ground in the southern part, and a large path of thistles and nettles in a dip (Photo 145). A woodland strip along the eastern boundary of that field, towards the site of sand pit with ponds was also noted (Photo 146).

3.5 C&IEA

3.5.1 Access to the C&IEA can be gained from a metal gate on the south-eastern end of the area.

3.5.2 This area is the former Power Station site and largely retains the foundations and evidence of the previous use (Photos 65 and 66). This area of the site largely divides into three sections. Centrally there is a large triangular concrete sided basin, raised slightly by approximately 0.5 m from the surrounding area, dropping down to approximately 3 m deep. Historical photography indicates that this is the former cooling tower location for the three cooling towers of the former Power Station (Photo 71 to 74).

3.5.3 To the north and west of the cooling tower location the site comprises rough sparse grasses over hardstanding, consisting of predominantly concrete where exposed. Historical photography indicates the western portion of this area was the former Power Station main buildings; building outlines and relic features are noted in the exposed areas of hardstanding (Photo 75).

3.5.4 A wooded, rough stone embankment made of natural stone and slag material was noted at approximately 2 m in height from the estuary grassland up to the site level (Photos 81, 82, 84 and 85).

3.5.5 To the east and north-east of the cooling tower area, the area is more even with grasses over soft clays (Photos 78, 79 and 80). In places these overlie shallow hardstanding, with former asphalt roadways and some areas of concrete still present and visible through the grasses. In the north-east end of this area close to a pylon in the corner of the site, is the footprint of a building or series of buildings with concrete bases and brick walls. Small puddles of standing water are noted here adjacent to a closed gate; these puddles presented a hydrocarbon sheen across the surface (Photo 70).

3.6 Access to Main Development Area

3.6.1 This area is located south of the Main Development Area, approximately 320 m west of the existing Power Station. This area is predominantly the landscaping area between the main access road to the Power Station (Kelsterton Road), and a narrow asphalt pathway leading from the A548 to this road, and it comprises part of the access road to the Power Station entrance.

3.6.2 The landscaped portion of this area is dominated by mature shrubs and trees with long grasses. The southern side comprises the footpath of the A548, a glass and metal bus shelter and street lighting. The area is crossed by powerlines from north to south.

3.7 Hardstanding Expansion at Connah's Quay North Jetty

3.7.1 This area is located to the north-east of Connah's Quay North Jetty, north of the River Dee / Dee Estuary. Photographs from the landowner indicate the area is grassed / vegetated, with hardstanding along the western extent. A large concrete tank is located to the north of this area; small buildings and infrastructure to the south; and a pylon is located to the east. No visual evidence of contamination was noted in the images provided.

4. Environmental Setting

4.1 Introduction

4.1.1 The environmental setting including the topography, geology, hydrogeology and hydrology are the key factors that influence the way in which contaminants in the soil or groundwater can be transported on or off-site, and the way in which contamination can affect users of the Proposed Development.

4.1.2 The environmental setting of the Site has been assessed by making reference to the information sources detailed in Section 1.4.

4.2 Soils Classification

4.2.1 Information obtained from Cranfield Soil and AgriFood Institute (CSAI) Soilscapes website (Ref 5) describes the soils at the Site (with the exception of the Repurposed CO_2 Connection Corridor, the Proposed CO_2 Connection Corridor and Access to Main Development Area) to be loamy and clayey soils of coastal flats with naturally high groundwater (Soilscape identification description number 21). Land within this soil type is described as generally draining to local groundwater and mostly drained. The Soilscapes website indicates that where this soil type is present, '*shallow groundwater and marginal ditches to most fields mean that the water resource is vulnerable to pollution from nutrients, pesticides and wastes that may be applied to the land*'.

4.2.2 The Repurposed CO_2 Connection Corridor, the Proposed CO_2 Connection Corridor and Access to Main Development Area are indicated to be underlain by slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils (Soilscape identification description number 18). Land within this soil type is described as generally draining to a stream network and with impeded drainage. The Soilscapes website indicates that the '*main risks are associated with overland flow from compacted or poached fields. Organic slurry, dirty water, fertiliser, pathogens and fine sediment can all move in suspension or solution with overland flow or drain wate*r'. A limited portion of the Repurposed CO_2 Connection Corridor, north of Chester Road, is underlain by Soilscape 21.

4.2.3 Soils at the Hardstanding Expansion at Connah's Quay North Jetty are classified as '*saltmarsh soils*' (Soilscape identification description number 1).

~~4.2.3~~4.2.4 The Agricultural Land Classification (ALC) is discussed further in **Chapter 14: Geology and Ground Conditions** (**EN010166/APP/6.2.14**).

4.3 Geology

4.3.1 The BGS Geoindex website (Ref 6) and published 1:50,000 scale geological map of the area (Sheet 108, Flint) (Ref 7) and associated memoir (Ref 8) have been reviewed, alongside the historical borehole records available from the Site. The historical ground investigations are described in greater detail in Section 7. An overview of the geological succession across the Site is reported in **Table 2**. A breakdown of the expected geology for each element of the Site is reported in more detail in **Table 3**.

4.3.2 The published geology and the historical boreholes used for this review are presented in **Figures 14A-2** and **14A-3** (**Annex A**~~).~~), and, for the Hardstanding Expansion at Connah's Quay North Jetty, in the Groundsure report included in **Annex E**.

Table 2: Summary of anticipated Geology

Geology	Anticipated thickness	Lithological Description (Ref 34)	West[2]	North[3]	Centre[4]	East[5]
Made Ground	Encountered up to 2.80 m bgl.	Made Ground is an area where the pre-existing (natural or artificial) land surface is raised by artificial deposits. The purpose of the Made Ground is unspecified.	Small area along the eastern boundary of the Proposed CO_2 Connection Corridor.	All of the area.	All of the area except the Main Development Area Access Works and a small area north of it.	All of the area except the Alternative Access to the Main Development Area, the Surface Water Outfall and majority of the Water Connection Corridor.
Superficial Deposits						
Glaciofluvial Deposits	Unknown	Glaciofluvial deposits were deposited by meltwater streams. Includes mostly coarse-grained sediments with some finer-grained layers. Sand and gravel, locally with lenses of silt, clay or organic material.	Small area along the eastern boundary of the Proposed CO_2 Connection Corridor.	-	-	-
Till	Unknown	Unsorted and unstratified drift, generally overconsolidated,	All of the area.	Small area within the	Present at the Access to	-

[2] N-S section of the Repurposed CO_2 Connection Corridor and Proposed CO_2 Connection Corridor
[3] E-W section of the Repurposed CO_2 Connection Corridor, Western portion of the Main Development Area
[4] Central portion of the Main Development Area, Access to the Main Development Area
[5] Surface Water Outfall Area, Water Connection Corridor, Electrical Connection Corridor, C&IEA, Alternative Access to the Main Development Area ~~and~~, Access to Construction & Indicative Enhancement Area, and Hardstanding Expansion at Connah's Quay North Jetty.

Geology	Anticipated thickness	Lithological Description (Ref 34)	West[2]	North[3]	Centre[4]	East[5]
		deposited directly by and underneath a glacier without subsequent reworking by water from the glacier. It consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape (diamicton).		Repurposed CO_2 Connection Corridor.	Main Development Area and a small area north of it.	
Tidal Flat Deposits	Unknown	Tidal flat deposits, including mud flat and sand flat deposits, form extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide. They consist of unconsolidated sediment, mainly mud and/or sand. They may form the top surface of a deltaic deposit.	-	All of the area.	All of the area except small portions of the Main Development Area and Access to Main Development Area.	All of the area, except Alternative Access to Main Development Area.
Bedrock						
Pennine Lower Coal Measures Formation - mudstone, siltstone and sandstone	Up to 200 m	Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.	Majority of the area.	Majority of the area.	-	Majority of the area.

Geology	Anticipated thickness	Lithological Description (Ref 34)	West[2]	North[3]	Centre[4]	East[5]
Pennine Lower Coal Measures Formation - sandstone			Mapped at the Repurposed CO_2 Connection Corridor.	-	-	Mapped at the Electrical Connection Corridor and Alternative Access to Main Development Area and Access to C&IEA.
Gwespyr Sandstone - sandstone and argillaceous rocks, interbedded	To 260m	Fine-grained, feldspathic and micaceous sandstones, cross-stratified on a variety of scales, with conglomerate-lined scours and intercalated siltstone and mudstone beds. Intertongues with Craven Group mudstones in its lower part and Pennine Lower Coal Measures Formation in its upper part. The Gwespyr Sandstone records the entry and southwards advance of a northerly derived "Millstone Grit" deltaic facies into the North Wales area.	-	Mapped at the Repurposed CO_2 Connection Corridor.	Western portion of the area.	Area of limited extent in the southernmost portion of the C&IEA.
Etruria Formation - mudstone, sandstone and conglomerate	Up to about 300 m thick in the type area.	Red, purple, brown, ochreous, green, grey and commonly mottled mudstone, with lenticular sandstones and conglomerates referred to as 'espleys'. Common pedogenic horizons, but coal seams are rare. Subordinate, lenticular sandstones and conglomerates commonly consist	-	Eastern portion of the area.	-	-

Geology	Anticipated thickness	Lithological Description (Ref 34)	West[2]	North[3]	Centre[4]	East[5]
		mostly of volcanic and lithic clasts. Intrusions of dolerite sills and dykes and extrusion of a small volume of volcaniclastic rocks are present in south Staffordshire and south Nottinghamshire.				

Table 3: Geological Succession from Published Mapping and Historical Borehole Logs

Area	Made Ground	Superficial Geology	Bedrock	Selected Historical Borehole Records (located within approximately 50 m of the area)
Main Development Area	BGS mapping indicates that Made Ground is present across the majority of the area. According to Geology of the Country Around Flint: Memoir for 1:50 000 Geological Sheet 108 (England and Wales), fly-ash, a by-product of coal-burning for power generation, forms part of the made ground in the vicinity of Connah's Quay Power Station.	Tidal Flat Deposits (Clay, Silt and Sand), except for a small area in proximity of the Access to Main Development Area.	Western and eastern areas: Pennine Lower Coal Measures Formation (mudstone, siltstone and sandstone, up to 180 m thick) with 4 no. inferred coal seams. Central area: Etruria Formation (mudstone, sandstone and conglomerate), up to 300 m thick Interbedded in the western and central areas with Gwespyr Sandstone (sandstone and argillaceous rocks), up to 260 m thick. 6 no. north-south trending faults are mapped in the area. 4 no. inferred coal seams subcropping below the superficial deposits across the Main Development Area.	Two borehole records available on site: Ref. SJ27SE16, eastern part of the area: Fly-ash to the depth of 1.50 metres below ground level (m bgl), followed by black organic silty sand to 2.70 m bgl, and grey silty clayey sand with organic matter to a depth of 5.80 m bgl, stiff to hard blue grey and red-brown mottled shaley fissured clay to 9.10 m bgl. Mudstone interbedded with siltstone and occasional sandstone beds from 10.06 to 34.90 m bgl, with suspected faults (indicated by presence of gouge*) at 10.70 and 27.60 m bgl and a coal layer noted at 30.70 m bgl; sandstone bed below, up to 54.70 m bgl, underlain by mudstone to 55.80 m bgl (maximum borehole depth). Water strike recorded at 11.6 m bgl. Ref. SJ27SE23, west of the area: Fly ash to 1.80 m bgl, followed by series of silty organic clays, black organic sandy silt and black organic silty sand to 5.20 m bgl, grey brown sand to the depth of 9.45 m bgl, followed by gravel and cobbles to 10.06 m bgl. Siltstone with varying shale partings to the depth of 38.70 m bgl, changing to mudstone and with a recorded fault at 41.30 m (noted due to

Area	Made Ground	Superficial Geology	Bedrock	Selected Historical Borehole Records (located within approximately 50 m of the area)
				presence of gouge*), with more mudstone-dominated beds to 65.80 m bgl, siltstone and sandstone beds to 71.30 m bgl (maximum borehole depth). Water strike at 0.91 m bgl.
Repurposed CO_2 Connection Corridor	BGS mapping indicates limited presence of Made Ground in the northern portion, in proximity of the Main Development Area.	Predominantly Till (Devensian), except for an area of Tidal Flat Deposits (Clay, Silt and Sand) in proximity of the Main Development Area, along the railway and Chester Road.	Pennine Lower Coal Measures Formation (mudstone, siltstone and sandstone) In the central area, Gwespyr Sandstone (sandstone and argillaceous rocks), and, in the southwestern portion, Pennine Lower Coal Measures (sandstone). A number of linear features including faults, and coal seams are mapped north-south.	One borehole in proximity of the area: Ref. SJ27SE2/A, 50 m east: Information only available from 57 m bgl to 123.8 m bgl. Grey sandstone interbedded with kingle, shale. coal bands, grey rag.
Proposed CO_2 Connection Corridor	BGS mapping indicates limited presence of Made Ground, along the eastern boundary.	Till (Devensian), and Glaciofluvial Deposits, (Devensian) (sand and gravel) along the eastern boundary.	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone with 1 no. inferred coal seam subcropping in the southern portion. Pennine Lower Coal Measures Formation –	No borehole records available for review within boundary nor within close proximity.

Area	Made Ground	Superficial Geology	Bedrock	Selected Historical Borehole Records (located within approximately 50 m of the area)
			sandstone in the north-western corner.	
Water Connection Corridor	BGS mapping indicates that Made Ground is present at the southern part of the area.	Tidal Flat Deposits (Clay, Silt and Sand).	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone. 1 no. fault orientated west-northwest mapped in the central area.	No borehole records available for review within boundary nor within close proximity.
Electrical Connection Corridor	BGS mapping indicates that Made Ground is present across the area.	Tidal Flat Deposits (Clay, Silt and Sand).	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone. Pennine Lower Coal Measures Formation – sandstone in southern and eastern parts. 3 no. west-northwest-orientated faults mapped across the area.	One borehole record available (Ref. SJ27SE303) located 20 m outside the Order limits. Openhole drilling to 7.30 m bgl (no strata descriptions), highly weathered mudstone recovered as soft to firm silty clay with mudstone fragments to a depth of 7.50 m bgl, moderately weathered mudstone to a depth of 13.50 with beds of mylonitic crushed breccia and fragments of coal. Siltstone was recorded to the depth of 14.20 m bgl, underlain by variations of sandstone to a depth of 25.25 m bgl (maximum base of borehole).
Existing Water Outfall	Not present on BGS mapping.	Tidal Flat Deposits (Clay, Silt and Sand).	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone.	No borehole records available for review within boundary nor within close proximity.

Area	Made Ground	Superficial Geology	Bedrock	Selected Historical Borehole Records (located within approximately 50 m of the area)
C&IEA	BGS mapping indicates that Made Ground is present across the area.	Tidal Flat Deposits (Clay, Silt and Sand).	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone with 1 no. inferred coal seam in the eastern part of the area. Gwespyr Sandstone – sandstone and interbedded argillaceous rocks in the south-eastern corner. 3 no. faults in three different orientations mapped along the boundaries of the area.	No borehole records available for review within boundary nor within close proximity.
Main Development Area Access Works	Not present on BGS mapping.	Till (Devensian) in the southern portion of the area; no superficial deposits mapped in the northern portion.	Gwespyr Sandstone – sandstone and interbedded argillaceous rocks. Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone in the western corner. 2. no faults trending north-south on eastern and western sides of the area.	No borehole records available for review within boundary nor within close proximity.

Area	Made Ground	Superficial Geology	Bedrock	Selected Historical Borehole Records (located within approximately 50 m of the area)
Alternative Access to Main Development Area and Access to C&IEA	BGS mapping indicates that Made Ground is present across majority of the area.	Tidal Flat Deposits (Clay, Silt and Sand) in the northern portion of the area; no superficial deposits mapped in the southern portion.	Predominantly Pennine Lower Coal Measures Formation – sandstone. Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone. 2. no faults, one trending northwest-southeast, and one trending east-west.	Two borehole records available 50 m south of the area: Ref. SJ27SE374: topsoil to 0.40 m bgl, followed by Made Ground comprising of dense sandstone fill to 0.70 m bgl. Clays with varying sand and silt contents to 6.70 m bgl, followed by weathered mudstone to 7.10 m bgl (maximum base of borehole). Water seepage at 2.80 m bgl. Ref SJ27SE375: topsoil to 0.20 m bgl, silty slightly sandy clay with gravel and occasional sand partings (potential Made Ground) to a depth of 0.80 m bgl. Firm to stiff silty slightly sandy clay with little gravel was recorded to a depth of 7.20 m bgl. Very weak silty mudstone to a depth of 7.60 m bgl. Water seepage at 2.50 m bgl.
Hardstanding Expansion at Connah's Quay North Jetty	BGS mapping indicates that Made Ground is present.	Tidal Flat Deposits (Clay, Silt and Sand)	Pennine Lower Coal Measures Formation – mudstone, siltstone and sandstone.	No borehole records available for review within boundary nor within close proximity.

**Fault gouge is a type of mechanically broken fault rock, defined by its fine grain size and lack of primary cohesion, commonly with clayey matrix (BGS).*

4.3.3 The following geological formations are not mapped beneath the Order limits but are expected within 250 m from the Order limits:

- Superficial deposits: Head deposits (clay, silt, sand, and gravel), mapped approximately 120 m and 200 m southeast north of the Proposed CO_2 Connection Corridor; Alluvium (clay, silt, sand and gravel), two areas of limited extent mapped approximately 100 m southeast of the C&IEA and 150 m south-west of the Access to C&IEA; and
- Bedrock: Etruria Formation (sandstone), mapped approximately 190 m southwest of the Main Development Area.

4.3.4 The Order limits are cut across by a complex network of faults, with the majority of them orientated roughly north to south and north-west to south-east. The main faults associated with the Site include two north-south faults, which juxtapose Etruria Formation next to Lower Pennine Coal Measures.

4.4 Mining and Ground Workings

Coal Mining

4.4.1 According to BGS mapping (Ref 7, Ref 35), there are four inferred coal seams subcropping below the superficial deposits across the Main Development Area. These are identified as the Llwyneinion Half Yard coal seam in the central portion of the Main Development Area (although one linear feature mapped as conjectural) and the Premier seam, in the eastern portion and at the westernmost corner of the Main Development Area.

4.4.2 According to the BGS memoir, the Llwyneinion Half Yard coal seam can be up to 1 m thick in the Flintshire coalfield area, and regionally the Premier coal seam can be up to 2 m thick, suggesting that those seams are of workable thickness (Ref 8). As the seams are within the Lower Coal Measures strata which are constrained to parts of the Order limits via folding/faulting, they do not dip underneath large parts of the Main Development Area; although they may be present dipping beneath the majority of the Repurposed CO_2 Connection Corridor and the Proposed CO_2 Connection Corridor.

4.4.3 Premier coal seam is also mapped in the Repurposed CO_2 Connection Corridor, in the south-western corner of the Proposed CO_2 Connection Corridor; the Llwyneinion Half Yard coal seam is mapped in the northern portion of the Repurposed CO_2 Connection Corridor and in the eastern part of the C&IEA. The Ruabon Yard inferred coal seam is also mapped (although denoted as uncertain) crossing the central part of the Repurposed CO_2 Connection Corridor.

4.4.4 According to the Mining Remediation Authority Map Viewer (Ref 9), the Order limits lie within a Coal Mining Reporting Area. The south-eastern part of the Main Development Area, Alternative Access to Main Development Area and Access to C&IEA, and Electrical Connection Corridor areas lie within a Surface Coal Resource Area. The entire Repurposed CO_2 Connection Corridor and Proposed CO_2 Connection Corridor also fall within this area. This defines areas of coal resources capable of being extracted by surface mining methods, often referred to as 'opencast'.

4.4.5 An area included within the Repurposed CO_2 Connection Corridor is indicated to lie within a Development High Risk Area. The Development High Risk Area extends to the south/southeast and includes coal outcrops (mapped on the Map Viewer overlapping the Repurposed CO_2 Connection Corridor); mine entries and their potential zone of influence, in close proximity to the Order limits; probable shallow and moderately shallow coal mine workings and an area of surface/opencast mining (past and current) mapped adjacent to, or slightly overlapping, the Repurposed CO_2 Connection Corridor. Past shallow coal mine workings are mapped 150 m east.

4.4.6 Two small areas are indicated to be within a Development High Risk Area approximately 65 m to the south of the Main Development Area. These correspond to recorded mine entries and their potential zone of influence. These entries also correspond to underground workings presented in the Groundsure ~~GIS database~~dataset, and to an unspecified old shaft and coal pits shown on historical mapping.

4.4.7 According to the BGS Geoindex online viewer, the Order limits are indicated to have shallow coal present including: buried coal resource overlain by up to 50 m overburden, and noted to be in a primary opencast coal resource area, secondary opencast coal resource area and tertiary opencast coal resource area. The Groundsure ~~GIS database~~dataset also includes information from the Mining Remediation Authority indicating that the Order limits lie within an area of mineable coal.

Preliminary Mine Gas Risk Assessment

4.4.8 A preliminary mine gas risk assessment has been undertaken to assess effects of the historical mining activity in the proximity to the Order limits. The assessment was undertaken based on the available information from the Mining Remediation Authority Map Viewer and the Groundsure ~~GIS Database~~dataset, in accordance with CL:AIRE document Good Practice for Risk Assessment for Mine Gas Emissions (Ref 10). The key information includes:

- the Order limits are located within a Coal Mining Reporting Area, and part of it (albeit two very localised areas of the Repurposed CO_2 Connection Corridor) is located within a Development High Risk Area;
- the Order limits are adjacent to (or slightly overlapping) an area of Probable Shallow Coal Mine Workings; a coal outcrop overlaps a very localised area of the Repurposed CO_2 Connection Corridor;
- faults and discontinuities have been identified on-site, with the fault nearest to the mine entries located at approximately 100 m and crossing the Order limits;
- three recorded mine entries are mapped in close proximity to the Order limits (at Oakenholt Mill); the one closest to the Order limits (326371-038) is recorded as having been treated and with a shaft depth of 8.5 m; additional mine entries are mapped approximately 100 m east of the Repurposed CO_2 Connection Corridor;
- these entries are likely to be associated with the Premier and Llwyneinion Half Yard coal seams, which cross the Repurposed CO_2

Connection Corridor north-south near Oakenholt Mill and appear to be associated with the coal outcrops mapped in this area;

4.4.9 Additionally, two recorded mine entries are located 65 m south of the Order limits and are associated with their own respective separate Development High Risk Areas localised to the mine entry features; there are two BGS records associated with these recorded mine shafts (Ref. SJ27SE192 and SJ27SE179), however no additional information was provided that could be used in the assessment. Mine shaft 326371-002 is recorded as treated, whereas mine shaft 326371-015 is recorded as not treated. The Premier and Llwyneinion Half Yard coal seams have been identified 130 and 230 m east respectively of these mine entries.

4.4.10 Based on the above, the Order limits are considered to potentially represent a High Risk with respect to mine gas risk. This is based on what is currently understood from the available information notably the assumption that potential shallow workings (i.e. less than 30m depth) are present. A Detailed Mine Gas Risk Assessment is required in accordance with CL:AIRE 2021 guidance, therefore, further assessment is considered to be required and should include specific mine gas related ground investigation.

Non-Coal Mining

4.4.11 **Table 4** summarises the non-coal mining potential of the Order limits, based on the BGS data presented within the Groundsure ~~GIS database~~dataset.

Table 4: Non-coal Mining Potential

Area	Commodity Type
Main Development Area	Mineral Vein Iron Ore (bedded) Baryte (a mineral consisting of barium sulphite), in the eastern part of the area
Proposed CO_2 Connection Corridor	Iron Ore (bedded)
Repurposed CO_2 Connection Corridor	Iron Ore (bedded) Mineral Vein in the northern portion
Water Connection Corridor	Iron Ore (bedded)
Electrical Connection Corridor	Iron Ore (bedded)
C&IEA	Iron Ore (bedded) Mineral Vein in the south-eastern corner of the area
Existing Surface Water Outlet	Iron Ore (bedded)
Access to Main Development Area	Mineral Vein

Area	Commodity Type
	Iron Ore (bedded) in the western corner of the area
Alternative Access to Main Development Area and Access to C&IEA	Iron Ore (bedded)
Hardstanding Expansion at Connah's Quay North Jetty	Iron Ore (bedded)

4.4.12 With regard to the past or current underground workings for the aforementioned mineral commodities, the Groundsure dataset indicates that:

- underground workings for the extraction of Iron '*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*.'
- with regard to vein minerals, these are indicated to be '*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*.'
- baryte underground workings '*may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered*'.

4.4.13 The Groundsure dataset indicates the presence of several ground workings within 250 m from the Order limits which appear to be associated to surface quarrying only:

- Gravel pits 100 to 190 m, and an unspecified old quarry 180 m west of the Repurposed CO_2 Connection Corridor;
- Unspecified quarry 170 m southeast of the C&IEA; ~~and~~
- Unspecified pit 235 m southeast of the Hardstanding Expansion at Connah's Quay North Jetty; and
- 'Sand pit' and 'Old Sand Pit' 100 m east of the Proposed CO_2 Connection Corridor.

4.4.14 It is noted that the latter appears to be associated with the Historical Mineral Planning Area titled "Little Leadbrook Farm" comprising sand and gravel, which extends further west and overlaps the Order limits within the Proposed CO_2 Connection Corridor. However, historical mapping does not provide evidence that actual quarrying works occurred within the Order limit boundaries.

4.5 Soil Chemistry

4.5.1 The soil chemistry datasets from the BGS were included in the Groundsure Report for the Order limits and detail the topsoil concentrations of five Potentially Harmful Elements (PHE): arsenic, cadmium, chromium, nickel, and lead. Elevated concentrations of these can exist because of natural

geological conditions or possible anthropogenic sources. The estimated soil chemistry levels attributed to the Order limits are set out in **Table 5**.

Table 5: Estimated Soil Chemistry

Area	Estimated geometric mean concentration range within the Order limits (mg/kg)				
	Arsenic	Cadmium	Chromium	Nickel	Lead
Main Development Area	<15 mg/kg	<1.8 mg/kg	40 – 90 mg/kg	<15 mg/kg to 15-30 mg/kg	<100 mg/kg to 100 - 600 mg/kg
Repurposed CO_2 Connection Corridor	<15 mg/kg	<1.8 mg/kg	40 – 120 mg/kg	<15 mg/kg to 15 - 30 mg/kg	300 – 600 mg/kg
Proposed CO_2 Connection Corridor	<15 mg/kg to 25 – 35 mg/kg	<1.8 mg/kg	60 – 120 mg/kg	<15 mg/kg to 15-30 mg/kg	200 – 600 mg/kg
Water Connection Corridor	<15 mg/kg	<1.8 mg/kg	40 – 60 mg/kg	<15 mg/kg	100 – 200 mg/kg
Electrical Connection Corridor	<15 mg/kg	<1.8 mg/kg	40 – 60 mg/kg	<15 mg/kg	<100 mg/kg to 100 – 200 mg/kg towards Water Connection Corridor
C&IEA	<15 mg/kg	<1.8 mg/kg	40 – 60 mg/kg	<15 mg/kg	<100 mg/kg
Surface Water Outfall Area	<15 mg/kg	<1.8 mg/kg	40 – 60 mg/kg	<15 mg/kg	100 – 200 mg/kg
Access to Main Development Area	<15 mg/kg	<1.8 mg/kg	40 – 90 mg/kg	<15 mg/kg to 15 – 30 mg/kg	100 – 200 mg/kg
Alternative Access to Main Development Area and Access to C&IEA	<15 mg/kg	<1.8 mg/kg	40 – 60 mg/kg	<15 mg/kg to 15 – 30 mg/kg	<100 mg/kg
Hardstanding Expansion at Connah's Quay North Jetty	15 mg/kg	1.8 mg/kg	40 – 60 mg/kg	15 mg/kg	100 mg/kg

4.6 Hydrogeology

Aquifer Classification

4.6.1 NRW aligns with the Environment Agency's Groundwater Protection Policy (Ref 11) which adopts aquifer designations that are consistent with the Water Framework Directive (WFD) (Ref 12).

4.6.2 **Table 6** outlines the designations of the underlying aquifers within each area of the Order limits.

4.6.3 NRW have adopted the Environment Agency definitions for the aquifer designations, which are listed as follows:

- Principal Aquifer: '*layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale*'.
- 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*'.
- Secondary undifferentiated: '*layers previously designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type*'.

Table 6: Aquifer Designation

Geology	Aquifer Type	Main Development Area	Repurposed CO_2 Connection Corridor	Proposed CO_2 Connection Corridor	Water Connection Corridor	Electrical Connection Corridor	C&IEA	Surface Water Outfall Area	Main Development Area Access Works	Alternative Access to Main Development Area and Access to C&IEA	Hardstanding Expansion at Connah's Quay North Jetty
Superficial Deposits											
Glaciofluvial Deposits	Secondary A			✓							
Till	Secondary undifferentiated	✓	✓	✓					✓		
Tidal Flat Deposits	Secondary undifferentiated	✓	✓		✓	✓	✓	✓		✓	✓
Bedrock											
Pennine Lower Coal Measures Formation - mudstone, siltstone and sandstone	Secondary A	✓	✓	✓	✓	✓	✓	✓		✓	✓

Geology	Aquifer Type	Main Development Area	Repurposed CO_2 Connection Corridor	Proposed CO_2 Connection Corridor	Water Connection Corridor	Electrical Connection Corridor	C&IEA	Surface Water Outfall Area	Main Development Area Access Works	Alternative Access to Main Development Area and Access to C&IEA	Hardstanding Expansion at Connah's Quay North Jetty
Pennine Lower Coal Measures Formation - sandstone	Secondary A		✓	✓		✓				✓	
Gwespyr Sandstone - sandstone and argillaceous rocks, interbedded	Secondary A	✓	✓				✓		✓		
Etruria Formation - mudstone, sandstone and conglomerate	Secondary A	✓									

Groundwater Vulnerability

4.6.4 Mapping provided by the BGS included within the Groundsure ~~GIS~~ dataset outlines the combined vulnerability of groundwater to pollution and has been summarised in **Table 7**. The definition of the groundwater vulnerability to pollution is as follows;

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

Table 7: Groundwater Vulnerability

Area	Groundwater combined vulnerability
Main Development Area	Medium and high
Repurposed CO_2 Connection Corridor	Low and medium
Proposed CO_2 Connection Corridor	Low and high
Water Connection Corridor	High
Electrical Connection Corridor	High
C&IEA	High
Surface Water Outfall Area	High
Main Development Area Access Works	High
Alternative Access to Main Development Area and Access to C&IEA	High
Hardstanding Expansion at Connah's Quay North Jetty	High

Groundwater Source Protection Zones

4.6.5 According to NRW (Ref 13), the Site does not lie within a Source Protection Zone (SPZ) and there are no SPZ within 1 km of the Order limits.

Groundwater Quality

4.6.6 According to the Groundsure ~~GIS~~ dataset, the Order limits and study area overlie the Dee Carboniferous Coal Measures WFD groundwater body, which was classified as being of 'poor' overall quality in 2017.

Groundwater Abstractions

4.6.7 The Groundsure ~~GIS~~ dataset does not report any licensed groundwater abstraction recorded within the Order limits and none within the extended 1km study area for groundwater abstractions.

4.6.8 According to the NRW online map viewer (Ref 13), there are no groundwater abstractions within 1 km of the Order limits.

Groundwater Levels

4.6.9 Groundwater levels were identified within the borehole records summarised in section 4.3. These indicate generally shallow groundwater levels within mostly the superficial geology. Groundwater strikes were recorded at depths from 2.50 to 2.80 m bgl in proximity to the Alternative Access to Main Development Area and Access to C&IEA. A water strike at 0.90 m bgl was recorded within Made Ground at the Main Development Area. There is one record of groundwater strikes within the bedrock geology, at the depth of approximately 11.60 m bgl on the Main Development Area.

4.6.10 However, the publicly available borehole records were very limited. There is insufficient information to conclude at this stage whether these levels are representative of true groundwater levels across the wider area. Given the proximity to the River Dee estuary, tidal influence on groundwater levels is possible. NRW does not hold any groundwater level monitoring data within a 1 km radius from the Order limits.

4.6.11 With reference to groundwater monitoring records from previous reports (see Section 7), the latest ground investigations were undertaken in January 2005 at the Main Development Area, which recorded groundwater levels in four boreholes within the superficial deposits. Recorded groundwater levels ranged between 1.76 mbgl (4.80 m AOD) to 3.83 mbgl (3.15 m AOD).

4.6.12 In proximity of the Hardstanding Expansion at Connah's Quay North Jetty, previous investigations undertaken in 1963 (Section 7.4) indicate groundwater levels as shallow as 1 m bgl. However it is unknown whether these levels refer to groundwater strikes during drilling or resting levels.

~~4.6.11~~4.6.13 As there are no continuous groundwater level data available, the extent of the tidal influence on the groundwater levels within the Made Ground, superficial deposits and bedrock is unknown.

~~4.6.12~~4.6.14 Further information on groundwater levels can be found in **Chapter 13: Water Environment and Flood Risk** (**EN010166/APP/6.2.13**).

4.7 Hydrology

Surface Watercourses and Drainage

4.7.1 There are numerous surface water features located within the Order limits and within the study area. These are presented in **Figure 13-1: Surface Water Features** (**EN010166/APP/6.3**).

Table 8: Surface Water Features

Surface Water Feature	Area	Closest Distance to the Area and Direction
River Dee / Dee Estuary	Water Connection Corridor	Present within Water Connection Corridor.
	C&IEA	40 m northeast.
	Main Development Area	60 m northeast at closest point.
	Electrical Connection Corridor	140 m north.
	Hardstanding Expansion at Connah's Quay North Jetty	30 m south-west.
Kelsterton Brook	Main Development Area	Parallel to the northern and southern boundaries, crossing the Main Development Area (culverted beneath cooling towers); discharging into River Dee.
	Surface Water Outfall Area	Crossing the area (partially culverted).
	Water Connection Corridor	10 m west.
Lead Brook (and associated drains further to the west, and Oakenholt reservoir to the south)	Main Development Area	200 m to the north-west.
	Repurposed CO_2 Connection Corridor	Crossing the northern portion of the area, potentially culverted.
Old Rockcliffe Brook	Main Development Area	200 m to the south
Oakenholt Brook	Main Development Area	125 m south
Unnamed brooks/drains	Main Development Area	30 – 200 m to the south.
	Repurposed CO_2 Connection Corridor	80 m to the east.
Network of ponds/marshes	Main Development Area	Adjacent to the northern boundary of the Main Development Area.
	Surface Water Outfall Area	10 m east and west.

Surface Water Feature	Area	Closest Distance to the Area and Direction
	Water Connection Corridor	250 m west.
Three ponds	Main Development Area	Within 50 – 150 m to the west.
	Repurposed CO_2 Connection Corridor	120 -250 m to the north.
Allt-Goch Brook and Tributary	Proposed CO_2 Connection Corridor	Adjacent to the eastern boundary.
	Repurposed CO_2 Connection Corridor	On-site, crossing the Repurposed CO_2 Connection Corridor north-south
Four ponds and an unnamed brook / drain	Proposed CO_2 Connection Corridor	Ponds 90 and 155 m to the east, and 200 m north.
	Repurposed CO_2 Connection Corridor	Pond 200 m south.
Three ponds and three drains	C&IEA	All within 250 m to east.
Unnamed brook / drain	Electrical Connection Corridor	90 m to the north-east.
	Water Connection Corridor	230 m to the south-east.
	Alternative Access to Main Development Area and Access to C&IEA	230 m north.
	Hardstanding Expansion at Connah's Quay North Jetty	180 m south-west.
Unnamed pond	Alternative Access to Main Development Area and Access to C&IEA	170 m south.
Unnamed pond	Repurposed CO_2 Connection Corridor	40 m north, southern section.
Leadbrook Hall Farm pond	Repurposed CO_2 Connection Corridor	180 m south.
Unnamed drains	Repurposed CO_2 Connection Corridor	150 m north.
Unnamed streams	Hardstanding Expansion at Connah's Quay North Jetty	100 m north-west, 110 m, 140 m, 230 m north.

4.7.2 River Dee is listed as having the following River Quality classification:

- Moderate – overall;
- Fail – chemical; and
- Moderate – biological.

4.7.3 Further information on the quality and status of relevant watercourses can be found in **Chapter 13: Water Environment and Flood Risk** (**EN010166/APP/6.2.13**).

Surface Water Abstractions

4.7.4 The Groundsure ~~GIS~~ dataset does not report any active surface water abstractions within 250 m of the Order limits.

4.7.5 According to the NRW online map viewer, there is one surface water abstraction permit, located within the footprint of the Water Connection Corridor, on the River Dee. The permit is effective from 2017 for abstraction from the River Dee Estuary associated with Connah's Quay Power Station, operated by Uniper UK Limited for energy production.

Nitrate Vulnerable Zones

4.7.6 According to the Groundsure dataset, there are no nitrate vulnerability zones (NVZ) within 250m of the Order limits.

Drinking Water Protected Areas

4.7.7 The Groundsure ~~GIS~~ dataset does not report any Drinking Water Protected Area (surface water) for the Order limits and the study area.

4.8 Flood Risk

4.8.1 The Main Development Area, Electrical Connection Corridor, C&IEA, Water Connection Corridor and the Repurposed CO_2 Connection Corridor are all entirely or partially situated on the south bank of the River Dee~~.~~, and the Hardstanding Expansion at Connah's Quay North Jetty is located on the north bank of the River Dee. These sites are potentially at risk from fluvial, tidal and, to a lesser extent, surface water flooding. Full details on baseline flood risk are contained in **Chapter 13: Water Environment and Flood Risk**, **Appendix 13-A: Water Baseline and Methodology** and **Appendix 13-C: Preliminary Flood Consequences Assessment** (**EN010166/APP/6.4**).

4.9 Minerals Safeguarding

4.9.1 Planning Policies Wales (Ref 14) requires minerals planning authorities to promote sustainable use of mineral resources in their Local Development Plan (LDP). FCC is the local authority responsible for minerals planning in Connah's Quay.

4.9.2 According to the FCC LDP (Ref 15), no MSA are located within the Order limits or within the study area, with the exception of an MSA that overlaps the south-eastern area of the Proposed CO_2 Connection Corridor. The specific mineral was not identified in the LDP, although the MSA appears to be

mapped in the region of the sand and gravel associated with Glaciofluvial Deposits.

4.10 Radon

4.10.1 Current design of the Proposed Development comprises the construction of buildings within the Main Development Area only. The Groundsure ~~GIS~~ dataset and the UK Health Security Agency Radon UK map (Ref 16) indicate that the Main Development Area has a maximum radon potential of between 3 and 5% of properties above the action level, and therefore radon protection measures are necessary.

4.11 Unexploded Ordnance

4.11.1 According to the Zetica website (Ref 17), the Order limits lie within a zone that is expected to have a low risk of unexploded ordnance (UXO).

4.11.2 However, a Pre-Desk Study Assessment carried out by Zetica recommended that a detailed desk study is commissioned, based on preliminary findings. The Pre-Desk Study Assessment is reported in **Annex C**.

5. Regulated Activities

5.1 Introduction

5.1.1 The key relevant features that characterise the Site and surrounding area are summarised in this section, along with an indication of the risk to land quality of the Order limits. Information detailed in the following section has been taken from the Groundsure ~~GIS~~ dataset obtained for the Order limits.

5.1.2 Information on groundwater and surface water abstractions is detailed in Sections 4.6 and 4.7 and is not repeated here.

5.1.3 Generally, any regulated processes, registered radioactive substances, licensed waste management facilities and landfills, hazardous substances, fuel station entries and any other contemporary trade directory entries within 250 m of the Order limits could, depending upon the nature of their activities, represent potential sources of contamination.

5.1.4 It should be noted that the coordinates provided within the Groundsure ~~GIS~~ dataset for the following records might not represent the actual distance of the regulated process or facility from the Order limits.

5.1.5 According to The State of Contaminated Land in Wales by NRW (Ref 36), there is no information on any known Part 2A determinations reported by FCC.

5.1.6 A response from FCC (the local authority) indicated that the Order limits are not recorded in the Council's Public Register of Contaminated Land and it has not been and is not currently the subject of a Detailed Inspection pursuant to the previous of Part 2A of the Environmental Protection Act 1990. However, they indicated that a land contamination assessment would likely need to be undertaken, and reports of the findings to be submitted in support of any application for planning permission or development consent.

5.2 Regulated Processes

Licenced Discharges to Controlled Waters and Pollutant Release

5.2.1 **Table 9** summarises information on licenced discharges which has been collated from the Groundsure ~~GIS~~ dataset. Due to the shape of the Order limits, some of the entries are valid for more than one area. The overlap between them is noted with a superscript number to indicate the corresponding entry.

Table 9: Summary of Licensed Discharges to Controlled Waters

Area	Number present in relation to the Site		Details
	On-site	0-250m	
Main Development Area	1	13	*On-site:* one expired consent associated with unspecified discharge to the River Dee, for 'Connah's Quay Rockcliffe residential properties'. *Off-site:* two expired consents for unspecified trade discharge to the River Dee for 'Connah's Quay Power Station', located approximately 2 m off the western boundary. one effective consent for sewage discharge of final/treated effluent into the River Dee estuary located approximately 110 m south, associated with a household waste recycling centre. five revoked / elapsed consents for unspecified trade discharge into Lead Brook (culverted section) associated with Henry Cooke Makin Oakenholt Mill, located within 250 m to the south-west and west[4]. one expired consent for sewage discharge of final/treated effluent into an unnamed ditch associated with Oakenholt STW flint, located within 250 m to the south-west and west. one effective consent for discharge of sewage associated with a pumping station into Kelsterton Brook, located approximately 120 m south[6]. one expired consent for sewage discharge of final/treated effluent into Kelsterton Brook associated with Kelsterton storm water located approximately 150 m south-east. one consent revoked under EPR 2010 for trade discharge – site drainage discharged to the River Dee, associated with Deeside Substation, Kelsterton Road, 110 m northeast. one Licensed Pollutant Release Part A2 B current permit for use of bulk

Area	Number present in relation to the Site		Details
	On-site	0-250m	
			cement, associated with Dependable Concrete, located approximately 75 m south.
Repurposed CO_2 Connection Corridor	-	6	*Off-site* one consent associated with sewage discharge to the culverted section of Lead Brook, for 'Papermill Lane PS', 20 m to the west. one revoked consent associated with trade discharges into the culverted section of Lead Brook, with Henry Cooke Makin Oakenholt Mill, 30 m west. one effective consent for sewage discharge of final/treated effluent into the River Dee estuary located approximately 150 m east, associated with a household waste recycling centre. one expired consent for sewage discharge of final/treated effluent into an unnamed ditch associated with Oakenholt sewage treatment works, located within 60 m to the south of the northern portion of the area. five revoked / elapsed consents for unspecified trade discharge into Lead Brook (culverted section) associated with Henry Cooke Makin Oakenholt Mill, located 170 m to the south-west and west. One revoked consent for unspecified effluent discharged into Lead Brook, associated with Leadbrook Hall, located 200 m east.
Proposed CO_2 Connection Corridor	0	0	None
Water Connection Corridor	0	1	one consent revoked under EPR 2010 for trade discharge – site drainage discharged to River Dee, associated with Deeside Substation, Kelsterton Road, located 40 m west.

Area	Number present in relation to the Site		Details
	On-site	0-250m	
Electrical Connection Corridor	0	4	one revoked consent along the northern boundary, for the discharge of site trade drainage into the ground. two revoked consents located off-site but enclosed by the footprint of the Electrical Connection for unspecified discharge into Kelsterton Drain. one consent revoked under EPR 2010 for trade discharge – site drainage discharged to the River Dee, associated with Deeside Substation, Kelsterton Road, 110 m south.
C&IEA	1	4	*On-site:* one expired consent into the River Dee for 'saline water – coastal sites – non bathing/shellfish' associated with Connah's Quay Power Station. *Off-site:* one effective sewage discharge consent into Golftyn Brook, associated with a pumping station, located approximately 90 m south. one effective storm overflow discharge consent into Golftyn Brook, associated with a storm tank, located approximately 90 m south[10]. one expired discharge consent for unspecified effluent into River Dee, associated with British Steel Cooling Tower Test, Shotton Works, located approximately 200 m north-east, on the other side of River Dee. one Licensed Pollutant Release Part A2 B current permit for unloading of petrol into storage at a service station, associated with Quay Service Station, Church Street, located approximately 100 m south.
Surface Water Outfall Area	0	0	None
Access to Main Development Area	0	1	one expired consent associated with unspecified discharge to River Dee, for Connah's Quay Rockcliffe residential properties, located approximately 70 m east.

Area	Number present in relation to the Site		Details
	On-site	0-250m	
Alternative Access to Main Development Area and Access to C&IEA	0	4	one effective consent for discharge of sewage associated with a pumping station into Kelsterton Brook, located approximately 120 m south. one expired consent for sewage discharge of final/treated effluent into Kelsterton Brook associated with Kelsterton storm water located approximately 150 m south-east. one effective sewage discharge consent (ref. CM0165601) into Golftyn Brook, associated with a pumping station, located approximately 90 m south. one effective storm overflow discharge consent (ref. CM0165601) into Golftyn Brook, associated with a storm tank, located approximately 90 m south.
Hardstanding Expansion at Connah's Quay North Jetty	0	1	One expired consent for discharge of cooling waters into the River Dee, located approximately 160 m south.

*Off-site area enclosed by the footprint of the Electrical Connection Corridor.

Historical Licensed Industrial Activities

5.2.2 **Table 10** summarises information on historical licensed industrial activities which ~~has~~have been collated from the Groundsure ~~GIS~~ dataset for the relevant areas. Due to the shape of the Order limits, some of the entries are valid for more than one area. The overlap between them is noted with a superscript number to indicate the corresponding entry.

5.2.3 No records have been identified on or within 250 m of the following areas: Proposed CO_2 Connection Corridor, Water Connection Corridor, Electrical Connection Corridor, ~~and~~ Access to Main Development Area, and Hardstanding Expansion at Connah's Quay North Jetty.

Table 10: Summary of Historical Industrial Activities

Area	Number present in relation to the Site		Details
	On-site	0-250m	
Main Development Area	0	2	Two entries located 250 m south-west of the southern boundary:

Area	Number present in relation to the Site		Details
	On-site	0-250m	
			North Wales Tissue Ltd for paper and pulp manufacturing process (revoked, now IPPC), and Billerud Beetham Ltd for paper and pulp manufacturing process (revoked).
Repurposed CO_2 Connection Corridor	0	2	Two entries entry, located 60 m south of the northern portion of the area: North Wales Tissue Ltd for paper and pulp manufacturing process (revoked, now IPPC); and Billerud Beetham Ltd for paper and pulp manufacturing process (revoked).
C&IEA	0	7	Seven entries located 200 m to the west of the C&IEA. All entries are associated with E.ON UK Plc for combustion processes and gasification. Six of these have been superseded by variations and one revoked in 2004 (now IPC).
Alternative Access to Main Development Area and Access to C&IEA	0	7	Seven entries located adjacent to the Alternative Access to Main Development Area and Access to C&IEA. All entries are associated with E.ON UK Plc for combustion processes and gasification. Six of these have been superseded by variations and one revoked in 2004 (now IPC).

Licensed Industrial Activities

5.2.4 **Table 11** summarises information on current licensed industrial activities which has been collated from the Groundsure ~~GIS~~ dataset for the relevant areas. Due to the shape of the Order limits, some of the entries are valid for more than one area. The overlap between them is noted with a superscript number to indicate the corresponding entry.

5.2.5 No records have been identified on or within 250 m of the following areas: Proposed CO_2 Connection Corridor, Water Connection Corridor, Electrical Connection Corridor, ~~and~~ Access to Main Development Area, and Hardstanding Expansion at Connah's Quay North Jetty.

Table 11: Licensed Industrial Activities

Area	Number present in relation to the Site		Details
	On-site	0-250m	
Main Development Area	0	8	All entries located 250 m south-west, located at Oakenholt Mill and associated with: SCA Hygiene Products UK Ltd: One effective permit (BJ9681IX) for disposal of non-hazardous waste involving biological treatment, and paper, pulp and board production. Six superseded permits for disposal of non-hazardous waste involving biological treatment, and paper, pulp and board production. North Wales Tissue Limited: One superseded permit (BJ9681IX) for paper, pulp and board production).
Repurposed CO_2 Connection Corridor	0	8	All entries located within 100 m from the northern portion of the area, located at Oakenholt Mill and associated with: SCA Hygiene Products UK Ltd: One effective permit (BJ9681IX) for disposal of non-hazardous waste involving biological treatment, and paper, pulp and board production. Six superseded permits for disposal of non-hazardous waste involving biological treatment, and paper, pulp and board production. North Wales Tissue Limited: One superseded permit (BJ9681IX) for paper, pulp and board production).
C&IEA	0	9	Nine entries located 200 m to the west of the C&IEA associated with: Uniper: One effective permit (NP3037AF) for refining gas and burning any fuel, and one effective permit (MP3337SH), no further details are provided. E.ON: Six superseded permits for gasification, liquefaction and refining and combustion of any fuel, and one effective permit (RP3933ZS) for

Area	Number present in relation to the Site		Details
	On-site	0-250m	
			gasification, liquefaction and refining and combustion of any fuel.
Alternative Access to Main Development Area and Access to C&IEA	0	9	Nine entries located adjacent to the Alternative Access to Main Development Area and Access to C&IEA associated with: Uniper: One effective permit (NP3037AF) for refining gas and burning any fuel, and one effective permit (MP3337SH), however no further details are provided. E.ON: Six superseded permits for gasification, liquefaction and refining and combustion of any fuel, and one effective permit (RP3933ZS) for gasification, liquefaction and refining and combustion of any fuel.

Recent Industrial Land Uses

5.2.6 The Groundsure ~~GIS~~ dataset includes recent industrial land uses present on and within 250 m of the Order limits and these are summarised in the **Table 12** below.

Table 12: Summary of Recent Industrial Land Uses

Category	Location
Pylons	On-site and in multiple locations off-site
Electrical substation	One on-site, within the Main Development Area Four off-site: One enclosed by the footprint of the Electrical Connection Corridor, Two located approximately 60 m and 115 m south of the C&IEA, one approximately 200 m to the north-east of the eastern boundary of the C&IEA, beyond River Tee. One located 50 m south of the Hardstanding Expansion at Connah's Quay North Jetty.
Power Station	Located in the Main Development Area, however marked in Groundsure as associated with the electrical substation enclosed by the footprint of Electrical Connection Corridor.

Category	Location
Tanks (recent)	Four located in the central part of the Main Development Area within the existing Power Station footprint. Two off-site – one located approximately 200 m to the south-west of the Proposed CO_2 Connection Corridor, and one located approximately 250 m to the north-east of the northern boundary of the C&IEA, beyond the River Dee. The contents of the tanks are unknown. One 25 m north of the Hardstanding Expansion at Connah's Quay North Jetty. Classified as open storage tank used for distribution or storage. First identified in 2001.
Telecommunication mast	Located in the north-eastern part of the Main Development Area, two off-site located approximately 100 m south and 245 m to the north-east of the northern boundary of the C&IEA, beyond the River Dee.
Recycling facility	Located off-site approximately 110 m to the south of the southern ~~site boundary~~Order limits of the Main Development Area, and 160 m southeast of the northern portion of the Repurposed CO_2 Connection Corridor.
Distribution and haulage	Located off-site adjacent to the Alternative Access to the Main Development Area and Access to C&IEA.
Chimneys	Two located in the central part of the Main Development Area, associated with the Power Station.
Petrol and fuel stations	One located off-site, approximately 110 m south of the C&IEA (associated with the vehicle cleaning services).
Vehicle repair, testing and servicing	Two located off-site approximately 45 m and 115 m south of the C&IEA.
Vehicle cleaning Services	One located off-site, approximately 110 m south of the C&IEA (associated with a petrol and fuel station).
Second hand car dealership	One located off-site, approximately 100 m south of the C&IEA.
Water pumping station	Two located off-site 75 and 100 m south of the Main Development Area and one 125 m south of the Alternative Access to Main Development Area and Access to C&IEA.
Construction and tool hire	One located within 20 m from the Repurposed CO_2 Connection Corridor.
Waste Storage, Processing and Disposal	One located 250 m south of the Repurposed CO_2 Connection Corridor.

5.3 Waste Management Facilities

5.3.1 **Table 13** summarises information on licensed and historical waste management facilities present on and within 250 m of the Order limits collated from the Groundsure ~~GIS~~ dataset.

Table 13: Waste Management Processes

Subject	Number present in relation to the Site		Details
	On-Site	0-250m	
Active / recent landfill	0	~~1~~2	Industrial waste infill (factory curtilage) located 245 m to the north-west of the C&IEA~~.~~, and 70 m north of the Hardstanding Expansion at Connah's Quay North Jetty. The site is operated by Tata Steel UK Ltd. No further details are provided.
Licensed waste sites	0	~~1~~3	Oakenholt household recycling centre located approximately 25 m south-west of the southern border of the Main Development Area and 90 m east of the Repurposed CO_2 Connection Corridor. License was issued in 2018 for 25,000 tonnes of waste.
Historical landfill sites	~~4~~5	~~4~~5	EA and NRW recorded landfills: *On-site* Connah's Quay Power Station landfill located in the western part of the Main Development Area, expanding further off-site 250 m to the west and on the Repurposed CO_2 Connection Corridor. Operated by Central Electricity Generating Board and identified as having received inert, industrial and commercial waste, with the first waste input in 1977, and the last in 1991, both dates coinciding with license issue and surrender respectively. According to information provided by the FCC, the landfill was extended in 1979 and associated with pulverized fuel ash. Connah's Quay Power Station 3 landfill located within the western and central part of the Main Development Area, encroaching slightly off-site in the south-western corner. Operated by Central Electricity Generating Board and identified as having received inert and industrial waste, with the first waste input in 1962.

Subject	Number present in relation to the Site		Details
	On-Site	0-250m	
			Connah's Quay Power Station 1 landfill site located in the eastern part of the Electrical Connection corridor, and extending off-site a further 190 m to the east. Operated by Central Electricity Generating Board and identified as having received inert and industrial waste, with the first waste input in 1954. According to information provided by FCC, the landfill is associated with boiler bottom ash. ~~*Off-site*~~ ~~Shotton Works – Area On North West Side of Interconnecting Road/ Shotton Works Number 1, located approximately 240 m north-east of the C&IEA, and 240 m west of the Water Connection Corridor. Operated by British Steel Plc and identified as having received inert, industrial, household waste and liquid sludge. First input was in 1945, and last in 1995.~~ Shotton Works landfill, overlapping the Hardstanding Expansion at Connah's Quay North Jetty and located approximately 240 m to the north-east of the C&IEA. Operated by Corus UK Limited and identified as having accepted industrial and household waste. License was issued in 1993 and surrendered in 2006. Last input was noted to take place in 1995. According to information provided by FCC, this landfill area coincides with a 10-~~hectre~~hectar landfill from 1985 with hazardous, inert, general and industrial wastes. British Steel No. 2 landfills are mapped within the footprint of this landfill. *Off-site* Shotton Works – Area On North-West Side of Interconnecting Road/ Shotton Works Number 1, located approximately 80m north-west of the Hardstanding Expansion at Connah's Quay North Jetty, 240 m north-east of the C&IEA, and 240 m west of the Water Connection Corridor. Operated by British Steel Plc and

Subject	Number present in relation to the Site		Details
	On-Site	0-250m	
			identified as having received inert, industrial, household waste and liquid sludge. First input was in 1945, and last in 1995. British Steel No. 1 landfill is also mapped within the footprint of this landfill. Refuse tips are also mapped in this area. J. and J. Makin, located approximately 90 m west of the Repurposed CO_2 Connection Corridor. Operated by J. and J. Makin and identified as having accepted industrial, commercial, and household waste. Last input was noted to take place in 1969. BGS recorded landfills: *On-site* Connah's Quay Power Station no. 3, ash lagoon, located in the western part of the Main Development Area. No further details are provided. *Off-site* Connah's Quay Power Station no. 1, ash lagoon, located adjacent to the eastern boundary of Electrical Connection Corridor. No further details are provided.

5.3.2 With regards to the on-site landfills the Applicant has advised that there is no evidence of trade or industrial waste having been deposited within the landfills associated with the Power Station. These are believed to be associated with the use of PFA as engineering fill for construction.

5.4 Hazardous Substances

5.4.1 There are no entries associated with Pollution Inventory – Radioactive Waste for the Order limits or in the study area.

Hazardous Substances Storage

5.4.2 There is one historical Hazardous Substances Storage consent located within the study area. This is located within the Main Development Area and it concerns the storage of up to 21 tonnes of flammable gas. No further details are provided.

Radioactive Substance Authorisations

5.4.3 There is one Radioactive Substance Authorisations record located 180 m south-east of the Order limits. The entry is associated with Glyndwr University for disposal of radioactive waste. However, its status is indicated as cancelled, effective from 19/07/1995.

Control of Major Accidents Hazards

5.4.4 ~~There are no records of~~One Control of Major Accidents Hazards (COMAH) ~~sites or licenses present within~~site overlaps the ~~Order limits. One active listing is located within 250 m of~~ the ~~eastern side of the Order limits~~Hardstanding Expansion at Connah's Quay North Jetty, associated with Tata Steel UK Limited.

List 1 Dangerous Substances

5.4.5 There is one entry for List 1 Dangerous Substances within the Order limits, located in close proximity to the Water Connection Corridor area. The entry is associated with E.ON UK Plc for mercury and cadmium, and indicated as not active. There are two entries (not active) within 250 m of the Order limits:

- one entry for Sca Hygiene Products UK Ltd, associated with mercury (other), cadmium, pentachlorophenol, aldrin, trichlorobenzene and total DDT, located approximately 100 m from the northern portion of the Repurposed CO_2 Connection Corridor; and
- one entry for Deeside Power Development Co Ltd, associated with mercury (other), cadmium and chloroform, located approximately ~~225~~120 m to the north-west of ~~C&IEA~~the Hardstanding Expansion at Connah's Quay North Jetty.

Historical Tanks

5.4.6 According to the Groundsure ~~GIS~~ database, there are twelve historical tanks located within the Main Development Area (nine within the current footprint of the Connah's Quay Power Station and three in proximity of the southern boundary).

5.4.7 Four historical tanks are mapped within the C&IEA.

5.4.8 The following historical tanks were noted off-site:

- one tank adjacent to the north of the Main Development Area;
- three historical tanks in the area between the Electrical Connection Corridor and C&IEA;
- two historical tanks 20 m and 220 south of Main Development Area;
- three historical tanks 5 m south of the Repurposed CO_2 Connection Corridor;
- two unspecified located approximately 140 m and 180 m, respectively, to the south of the C&IEA; and
- eight located approximately 130 to 200 m south of the northern portion of the Repurposed CO_2 Connection Corridor; all are unspecified except one which refers to being a gasometer.

- one tank 25 m north of the Hardstanding Expansion at Connah's Quay North Jetty.

5.5 Pollution Incidents

5.5.1 There are numerous entries detailed within the Groundsure report associated with pollution incidents located within the Site and these have been summarised below:

5.5.2 Two pollution incidents located in the central part of the Main Development Area which occurred in 2002 and 2003. The former was related to pollution by 'unidentified oil (oils and fuel)' and the latter by 'insulating and cable oil (oils and fuel)'. Both were of a minor (category 3) impact to land and no impact (category 4) to water and air.

5.5.3 Two pollution incidents also located in the central part of the Main Development Area related to the pollution by chemical odour. Both of them were of minor (category 3) impact to air and no impact (category 4) on water and land and occurred in 2002.

5.5.4 One pollution incident located in the eastern part of the Main Development Area, associated with smoke release in 2013. The incident was noted to be of no impact to land and air (category 4).

5.5.5 According to site records, an additional incident occurred at Connah's Quay Power Station in 2013, and this was classified as Category 3; this is related to the loss of hydrochloric acid to the ground. It is noted that this incident is not reported within the Groundsure report datasets.

5.5.6 There are multiple pollution incidents located within 250 m of the Order limits and these are summarised below:

- one pollution incident of Category 4 (no impact to air and land, no information on water) caused by 'other pollutant' and located approximately 90 m to east of the Alternative Access to Main Development Area and Access to C&IEA which occurred in 2014;
- one pollution incident located approximately 210 m to the south-east of the central/eastern part of the Main Development Area and caused by a sulphide odour. This was a minor (category 3) impact to air, and no impact (category 4) to land and water and occurred in 2002;
- one pollution incident located approximately 130 m west of the Repurposed CO_2 Connection Corridor. This was of minor (category 3) impact on air;
- one pollution incident located approximately 210 m south of the Access to the Main Development Area and caused by 'general biodegradable materials and waste'. This was of minor (category 3) impact on air, land and water and occurred in 2001;
- twenty-two pollution incidents associated with Oakenholt Paper Mill, which is located adjacent to the northern portion of the Repurposed CO_2 Connection Corridor. The entries are associated with:
  - twelve noise pollution incidents varying from significant (category 2) to no impact (category 4) on air, which occurred between 2003 and 2015;

  - two contaminated water pollution incidents associated with firefighting runoff, varying from minor (category 3) to no impact (category 4) on land and occurred in 2013;
  - seven pollution incidents classified as 'other atmospheric pollutant or other' varying from minor (category 3) to no impact (category 4) on air and which occurred in 2003; and
  - one smoke pollution incident of no impact (category 4) on air and which occurred in 2015.
- one pollution incident located approximately 190 m north-west of the Hardstanding Expansion at Connah's Quay North Jetty and 200 m north of the C&IEA, within the River Dee. No details are provided.

5.6 Sensitive Land Uses

5.6.1 **Table 14** summarises the sensitive land uses, including Sites of Special Scientific Interest (SSSI), Special Areas of Conservation (SAC), Special Protection Areas (SPA) and ancient woodlands located within 250 m of the Site.

Table 14: Summary of Sensitive Land Uses

Sensitive land use	Distance and direction from the Site
SPA – The Dee Estuary	Located within the Water Connection and slightly overlapping the Main Development Area to the north and west, and adjacent to the Repurposed CO_2 Connection Corridor and the C&IEA~~.~~, and 115 m south-west of the Hardstanding Expansion at Connah's Quay North Jetty.
SAC – Dee Estuary	Located within the Water Connection Corridor and adjacent to the northern boundaries of the Main Development Area (slightly overlapping along the western boundary), the Repurposed CO_2 Connection Corridor and the C&IEA~~.~~, 115 m south-west of the Hardstanding Expansion at Connah's Quay North Jetty.
SSSI – River Dee and Dee Estuary	Located within the Water Connection Corridor and adjacent to the northern boundaries of the Main Development Area (slightly overlapping along the western boundary), the Repurposed CO_2 Connection Corridor the C&IEA~~.~~, 115 m southwest of the Hardstanding Expansion at Connah's Quay North Jetty.
Ancient woodlands	Located approximately 50 m to the east of the Proposed CO_2 Corridor and 150 m east of the Repurposed CO_2 Connection Corridor.
Conserved Wetland Sites (~~RAMSAR~~Ramsar)	Located within the Water Connection Corridor, slightly overlapping the Main Development Area to the north and west, and adjacent to the northern

Sensitive land use	Distance and direction from the Site
	boundaries of the Repurposed CO_2 Connection Corridor and the C&IEA.
SSSI - River Dee ~~SSSI~~	Located off-site, 30 m south-west of the Hardstanding Expansion at Connah's Quay North Jetty, 75 m northeast of the C&IEA, 250 m south-east of the Water Connection Corridor, and 230 m north of the Electrical Connection Corridor.
SAC - The River Dee and Bala Lake	Located off-site, 30 m south-west of the Hardstanding Expansion at Connah's Quay North Jetty, 75 m northeast of the C&IEA, 175 m south of the Water Connection Corridor, and 230 m north of the Electrical Connection Corridor.
Connah's Quay Power Station Nature Reserve (non-statutory)	Located within Water Connection Corridor and to the west and north of the Main Development Area and in association with River Dee and its plains.
Green Wedge	Located approximately 35 m south of the Access to the Main Development Area.

5.6.2 There are no National Parks, National Nature Reserves, Local Nature Reserves, Biosphere Reserves, Forest Parks, Marine Conservation Zones, National Landscapes or Conservation Areas in and around the Site.

5.6.3 The whole of the Order limits is located within a SSSI Impact Risk Zone.

6. Historical Development

6.1.1 Historical mapping has been reviewed to evaluate the potential for past activities, both on and adjacent to the Order limits, to have impacted upon its environment and land quality. Historical Ordnance Survey (OS) maps of the Site were obtained from Groundsure Insights and are presented in **Annex D**. The available mapping dates were between 1869 – 2024. Where dates are given in the text, these refer to dates of maps on which the features appear, and do not necessarily refer to exact dates of construction, or operation of any facility.

Table 15: Historical Development

Area	On-site	Within 250 m of the boundary
Main Development Area	Northern part of the area is indicated to be covered by water (River Dee) with railway cuttings along the southern ~~site boundary~~Order limits (1869-1871). A historical tank is indicated in the southern part of the area between 1898 and 1959. Ground workings indicated in the southern part of the area (1909). Northern and western parts covered by sand, coal pit~~/~~/shaft mapped as disused open pit adjacent to the southern ~~site boundary~~Order limits, south of railway tracks (1912). Works mapped in the central and eastern parts (1959). Development of Power Station in the east, pond and an electrical pylon mapped in the southern part of the site, majority of the area indicated to be covered by rough grassland and mud (1962).	Coal shaft mapped approximately 50 m south of the southern boundary, Oakenholt Mill is noted 200 m to the west, and agricultural fields to the south-east of the Site (1869-1871). Marshes indicated along the southern boundary, sand in the central part and beyond northern boundary. Oakenholt Mill for paper was mapped 200 m to the west of the south-western corner of the Site, and a reservoir mapped approximately 300 m to the west, likely associated with the mill (1889). Unspecified tank mapped approximately 75 m south-west of the area (1989). Brewery and farms noted south of the area (1938). Car garage mapped to the south, in proximity to where open pit used to be, further development of properties to the west of the south-western corner of the area (1959).

Area	On-site	Within 250 m of the boundary
	Saltings, drain and cuttings mapped along the northern boundary, roads and pylons mapped in the central part of the Site (1959-1964). Three pylons mapped in central / southern area (1973). Area seems to have been infilled or levelled; 'works' are mapped in the central portion of the area (1981). Electrical substation mapped in the area formerly mapped as 'works' (1986). Current Power Station constructed between 1993 and 1995. Further development of Power Station's infrastructure in the west (2001), and no significant changes observed since.	Marshes mapped to the north of the boundary (1962). A pond orientated parallel to the area's southern boundary mapped adjacent to the railway line between 1962 and 1993. Complex network of marshes beyond the northern boundary (1979). Glantraeth Fam mapped immediately south (2010).
Repurposed CO_2 Connection Corridor	Undeveloped land; railway in the northern portion (1869-1871).	Oakenholt Cottage in the northern portion (1869-1871). Tank in the northern portion, near Oakenholt Cottage (1909). Oakenholt Mill in close proximity to the northern portion of the area; coal shaft approximately 50 m south of the northern portion, along Chester Road. Old coal shaft 140 m east, near Oakenholt. Leadbrook Hall, Little Leadbrook Farm, Quarry Farm and Coed-on Farm are visible at 50 m south, 15 m southeast, 160 m west, and 200 m west respectively (1869-1871).

Area	On-site	Within 250 m of the boundary
		Oakenholt Mill includes a reservoir adjacent to the Site and additional buildings; Lead Brook appears to have been culverted underneath the Mill; and old quarry is mapped next to Quarry Farm (1898). A gasometer is mapped at Oakenholt Mill (1909); a chimney is mapped at Oakenholt Mill (1911). A disused coal pit in proximity of the old shaft along Chester Road (1912). Garage 80 m south of the northern portion, along Chester Road (1962). Electrical Substation and tanks visible at Oakenholt Mill, now labelled 'Paper Mill' (1986) Oakenholt Mill is now labelled 'Paper Mill' (2001).
Proposed CO_2 Connection Corridor	Area comprises agricultural land with a footpath present in the northern part and two small water features, one in the northern and one in the western part of the area. A road parallel to the western boundary and a drain roughly parallel and adjacent to the eastern boundary are also shown (1869-1871). Third small on-site pond mapped in the eastern part of the area (1912).	Little Leadbrook Farm located approximately 190 m to the east, and Coed-onn Farm located approximately 100 m to the north. (1869-1871). An 'old sand pit' mapped approximately 200 m south-east (1953). Sand pit seems more worked on with distinctly mapped slopes and ponds (1963-1970). Footpaths mapped across the sand pit (1977-1978 and 1981) however, the sand pit is no longer mapped in 2001. A

Area	On-site	Within 250 m of the boundary
		total of three ponds are visible in this area by 2010.
Water Connection Corridor	Area occupied by low water channels and covered by waters of the River Dee (1869). Northern part is located in the river, southern part covered in sands (1898). Two drains flowing into Dee mapped on site (1909). Slight changes to the shape of mapped sand and mud on site (1953). River water mapped in the north, sand and mud in the central part, with marshes in the south (1962-1969). Water channel running roughly north-west to south-east mapped on site (1981).	Changes to the flood plain to the west of the site (1909). Saltings noted in the southern part (1953). Grassland beyond the southern ~~site boundary~~Order limits (1962-1969). Power station infrastructure present to the west (1969).
Electrical Connection Corridor	Area comprised of mud and sand related to the River Dee (1869). A network of channels flowing towards River Dee mapped on-site (1909-1912). Saltings mapped on the Site (1953). Area seems to have undergone infill, no more channels and sand and mud plains mapped (1969-1970). An artificial pond/lagoon mapped in the eastern part of the area (1977-1986).	Marshes and railway tracks to the south of the Site and Kelsterton village beyond (1869). Surrounding area seems to have undergone infill, no more channels and sand and mud plains mapped; railway infrastructure associated with the Power Station visible 30 m south (1969-1986). Electrical substation mapped within the inner boundary of the area but excluded from area's footprint (1973-1978, possibly around 1962). Two ponds/lagoons mapped to the east (within 100 m from

Area	On-site	Within 250 m of the boundary
	Aerial image indicates that ponds have been filled (2006). Eastern part of the area covered by hard standing (2011), and further development of the Power Station noted to have taken place by 2015. No major changes observed since.	eastern boundary) (1977-1986). Pipeline and complex infrastructure associated with Power Station present to the east and south-east of the area (1981). Hard standing mapped adjacent to the east (2011). Storage laydown area adjacent to the southern boundary observed on aerial imaging since 2015.
C&IEA	Northern part of the area is covered by water, and southern area by marshes, with a railway line adjacent to the southern boundary (1869). Southern part indicated as liable to floods, saltings also mapped in the central part of the area (1913). Rifle range noted in the south-western part of the area (1899, still visible in 1938). Connah's Quay Power Station and associated cooling tanks and railway infrastructure mapped between 1962 and 1993, along with tennis court in the south-eastern corner. Power Station demolished (1993). One small building remaining in the southern part (2001-2010), however, on 2024 mapping the building is no longer present.	Railway line and Golftyn village beyond the southern boundary (1869). Unspecified pit located 180 m south (1869). Sands and mud mapped to the north of site (1913). Expansion of Golftyn village noted outside the ~~site boundary~~Order limits (1938), however in 1963 the village was mapped as a part of Connah's Quay. Marshes mapped to the east and north-east of the area (1962). Garages noted approximately 50 m and 100 m south (1962-1982). Sands and mud plain to the north seem to have decreased in size (1969-1970). Two tanks noted 124 m south-west and 185 m south on 1978 mapping.

Area	On-site	Within 250 m of the boundary
		Unspecified heap approximately 45 m south, mapped between 1979 and 1994, associated with Golftyn Park.
Surface Water Outfall Area	Area occupied by sand and mud associated with the River Dee (1899-1912). Slope visible within the area, with path starting in the area, continuing towards the north; a canal/drain connected to the River is visible (from 1959).	Surroundings occupied by sand and mud associated with the River Dee (1899-1912). Infilling and development of the Power Station visible from 1959. A canal connected to the River Dee is visible east of the area from 1962. 'Wind pump' visible 1979-1993. Saltings and ponds north of the area (1979-1993). Aerial photograph shows outfall structure immediately to the north (2005-2024).
Access to Main Development Area	Area comprises part of the road in the southernmost part, and a bridge in the central and northern part; railway line is mapped adjacent to the east and west of the Site, with a tunnel feature below the bridge (1869-1870). No significant changes observed since.	Rockcliff Hall and House present to the north-east and agricultural fields present beyond the southern boundary, with a residential property approximately 200 m to the west (1869-1870). Mud and sand mapped beyond Rockcliff Hall (1870-1912). Unspecified tank mapped approximately 225 m south-east of the area (1989).

Area	On-site	Within 250 m of the boundary
		A pond, and various buildings, mapped adjacent to the northern boundary (1962). Area beyond Rockcliff Hall appears to have been infilled/levelled (1959-1964). Expansion to the road to the south, Chester Road (1981). Rockcliff Hall and House no longer mapped (1986). Wave Crest no longer mapped (1993). Development of road network adjacent to the northern boundary (2001). No significant changes observed since.
Alternative Access to Main Development Area and Access to C&IEA	Site is mostly undeveloped, and partially offshore, with a bridge over the railway line, and the southernmost part of the Site is located to the south of the railway track; rifle range located on-site (1869-1870). Elevated road, crossing the area, is constructed; overbridge over the railway occupies the southernmost spur of the area (1969-1970). No significant changes to the area since the removal of railway tracks crossing the area.	A road and agricultural fields beyond the southern extent of the area, with northern and western extents noted to be within flood plain, and the eastern area covered by marshes. Rifle range located in proximity of the area (1869). Saltings surrounding the western part of the area, channel network mapped to the north (1913). Park Farm and brewery located 100 m southeast (1869-1938). Buildings present to the east and west of the southernmost extent of the Site (1953). Further residential development to the south-

Area	On-site	Within 250 m of the boundary
		east and residential properties to the east and west (1962-1966). Power Station and associated infrastructure to the north, east and west, technical college to the south-west (1969-1970). Railway infrastructure to the north, east and west mapped between 1962 and 1993. Further development to the Power Station infrastructure surrounding the Site, further development to the college and playing fields in the south-west and south respectively, more residential properties to the south-east of the Site (1981). Reduction of buildings associated with the Power Station to the east within the C&IEA (2001). Further development to the college in the south-west (2010, 2024).
Hardstanding Expansion at Connah's Quay North Jetty	Area is undeveloped, mostly comprising saltings, sand or mud of the River Dee Estuary (1869 – 1954). Path mapped on-site (1969 – 1988). Area used for temporary storage (2013).	Area is undeveloped, mostly comprising saltings, sand or mud of the River Dee Estuary. Breakwater mapped immediately south-west (1869 – 1954). Infrastructure including railways, a jetty, and associated buildings immediately south-west; tank approximately 25 m north (1964 – present).

Area	On-site	Within 250 m of the boundary
		Pylon mapped immediately south-east (1978 – present). Lagoons mapped from 20 m east (1978 – 1988). Electrical substation 50 m south (1978 – present).

7. Previous Ground Investigations

7.1 Introduction

7.1.1 This section summarises thirteen previous reports relating to the Order limits. These have been summarised in chronological order (from the oldest to the most recent).

7.1.2 It should be noted that the Connah's Quay site was formally occupied by saltings (coastal land regularly covered by the tide). The C&IEA was developed in the 1950s for a coal-fired power station. Embankments were created on land currently occupied by the Main Development Area to create settlement lagoons and storage for the slurried Pulverised Fuel Ash (PFA) arising from the coal station (mapping indicates this land was reclaimed by around the mid-1960s). The coal-fired plant ceased operations in 1984 and was demolished in the early 1990s. The current 4-unit Combined Cycle Gas Turbine (CCGT) was constructed between 1993 and 1996 on the southern part of the Main Development Area. It comprises cooling water abstraction and discharge points in the River Dee, settlements ponds, cooling towers, water treatment plant, turbo generators and associated infrastructure. The station was initially owned by Powergen, who became E.ON UK in 2004, and was transferred to Uniper Technologies Limited in 2015.

7.1.3 It should be noted that many of the existing site investigation reports pre-date the existing Connah's Quay Power Station and, in some cases, coincide with the site reprofiling / reclamation works and hence the ground conditions / groundwater regimes documented in those reports will not be representative of present-day conditions.

7.2 Terresearch Limited (1962): 'Report on Investigation of Site Conditions at Connah's Quay for Central Electricity Generating Board'

Introduction

7.2.1 The aim of the investigation was to obtain data on strata succession and its physical characteristics.

7.2.2 Site works took place between March and May 1962, drilling 11 no. boreholes using four auger drilling rigs and one diamond rotary drill.

7.2.3 It should be noted that drilling locations were impossible to be inferred within the present-day layout of the Site.

Summary of Key Information

7.2.4 Alluvial deposits related to the River Dee were reported to cover the whole investigation area, and at shallow depths these frequently consisted of soft silty clays, and in some cases contained some organic material, and occasional thin beds of peat. However, the main part of the alluvial deposits consisted of sand, in parts silty with bands of silty clay and occasional gravel beds. Locally, thin beds of boulder clay were noted.

7.2.5 Superficial deposits were overlying sandstones, shales and mudstones of the productive Coal Measures. Overall, it was emphasised that considerable variations between strata across boreholes existed, particularly in the level of the bedrock, indicating intense glacial action to have taken place. Millstone Grit and the Carboniferous Limestone were indicated to underlie Coal Measures.

7.2.6 The water table was observed to be at the surface at some parts of the Site. The maximum depth to the water table was recorded as approximately 4.42 m bgl. Generally, water strikes were recorded at depths from approximately ground level to 9.75 m bgl.

7.2.7 At the surface of two of the boreholes, fly-ash deposits were noted and of a thickness of approximately 2.44 m to 3.66 m respectively.

7.2.8 The ground at the south-eastern end of the site was described as soft.

7.2.9 No specific information is provided with regards to groundwater monitoring/sampling/testing with the exception of groundwater levels/observations reported on the exploratory hole records and a brief summary of the groundwater regime in the main report text. Chemical testing was undertaken on groundwater samples but was limited to sulphur/pH testing.

7.3 Foundation Engineering Ltd (1963): 'Central Electricity Generating Board North West Region – Connah's Quay 400kV Substation Report on Site Investigation'

7.3.1 A site investigation consisting of 16 no. boreholes was undertaken between 3rd April and 4th May 1963. The investigation covered areas in proximity of the Electrical Connection Corridor, the Water Connection Corridor and northern and eastern parts of the Main Development Area.

7.3.2 The aim was to inform foundation design at the site for a proposed substation adjacent to the historical main power station at Connah's Quay. The site was indicated to be built up by the placing of a hydraulic fill consisting of pulverised fuel ash (PFA).

7.3.3 The PFA covered the site to a depth of approximately 1.52 m bgl, overlying alluvial silty sands and sandstone, of which levels varied across the site.

7.3.4 Driven cast in-situ piles were determined as the best piling solution for the site.

7.4 Soil Mechanics Ltd (1963): 'Site investigation for proposed 400kV transmission line towers between Connah's Quay, Flintshire and Kirkby, Lancashire'

7.4.1 This report factually summarises a geotechnically-focussed ground investigation undertaken for a proposed 400 kV Quad transmission line between Connah's Quay and Kirkby. A discussion of the ground conditions

and a foundation appraisal is provided. The report relates to the first section of the proposed transmission line from Connah's Quay to Shotwick. Therefore, only some of the investigation discussed relates to the existing Power Station area.

7.4.2 25 no. boreholes and 50 no. Dutch Deep Soundings tests (CPT testing) were put down at the proposed site of twenty transmission towers, along the whole line. Boreholes ~~33~~32 to 37 and BN5 relate to the present-day site, referred to as 'Section 1' in the report.

7.4.3 Within Connah's Quay Power Station, Made Ground containing brick, coal and PFA, to depths of approximately 5.33 m bgl was encountered.

~~7.4.3~~7.4.4 At the Hardstanding Expansion at Connah's Quay North Jetty, Made Ground consisting of blast furnace slag at top, and chemical waste at the base was recorded up to approximately 2.6 m bgl. This was underlain by silt and sand.

~~7.4.4~~7.4.5 Across the Site, Upper Alluvium comprising silty clay or clayey silt with occasional organic matter were encountered in the boreholes close to the River Dee. Dense to very dense silty fine sands with occasional thin clayey seams were noted to be fairly unform across the whole area.

~~7.4.5~~7.4.6 No specific information is provided with regards to groundwater monitoring/sampling/testing with the exception of groundwater levels/observations reported on the exploratory hole records and a brief summary of the groundwater regime in the main report text (which alludes to tidal influences on groundwater close to the River Dee). Chemical testing was limited to sulphate/pH testing. The water table was in general noted close to, or at the upper surface of the alluvial stratum, and close to the River Dee was where the water levels were affected by tidal influence. Carboniferous weathered fine and medium grained sandstone and siltstone were observed in borehole 37.

~~7.4.6~~7.4.7 At the time of the reporting, extensive quantities of chemical waste (blast furnace slag) formed as by-products of steel manufacturing were discharged from John Summers Steelworks (present day Tata Steel), which were suggested to be corrosive in relation to embedded concrete and steel. Moreover, special consideration was advised as to the presence of organic matter in the Upper Alluvium clays and silts.

~~7.4.7~~7.4.8 Generally, problems associated with foundations were considered and design data suggested the selection of piled or shallow pad foundations.

7.5 Ground Explorations Ltd (1966): 'Report on Exploration of Ground Conditions for C.E.G.B Bangor – Connah's Quay 400kV Line'

7.5.1 The report summarises the findings of a ground investigation which was designed to determine the ground conditions for the proposed erection of pylons for the 400kV line between Bangor and Connah's Quay.

7.5.2 The report references multiple sites across that line, however due to missing pages within the received report, and the lack of figures and exact references to the site's locations, it was not possible to make references to

the site conditions. It is understood that sites 249, 251, 252, 253, 2K and 3K refer to Connah's Quay area, however there is no further information to the exact site location.

7.5.3 The ground conditions on sites 249, 251, 252 and 253 were noted to be similar, however, at site 251 Made Ground consisting of fly ash was noted to a depth of approximately 1.83 m bgl, and this Made Ground was not present at other sites. Soft alluvial silty clays frequently with organic content, fine sands and silts were observed above the bedrock of sandstone or marls. The water table was observed at or just below the ground surface.

7.6 C.S. Allott & Son (1968): 'Central Electricity Generating Board proposed 2,500 MW Nuclear Power Station at Connah's Quay, Flintshire, North Wales – A Civil Engineering Appreciation of the Site Volume 1'

Introduction

7.6.1 The report assesses the suitability of the land located next to the coal-fired power station at Connah's Quay for the proposed 2,500 MW nuclear power station. This multidisciplinary report considers many aspects of the feasibility for the site, including location, topography, access, marine and estuarine features, geology and ground conditions. The area considered for development roughly included the Main Development Area, the Electrical Connection Corridor, the Alternative Access to Main Development Area and Access to C&IEA, and the C&IEA.

Summary of Key Findings

7.6.2 The report makes references to the previous site investigation reports and points out all of them only investigated the superficial deposits and upper most part of the Carboniferous strata, as no deep drilling into rock was undertaken for the conventional power station, transmission lines and switch-stations.

7.6.3 The report assesses land suitability for a proposed nuclear power station which required higher bearing capacities comparing to conventional construction.

7.6.4 Generally, the site investigation focused on the area located between the two main faults in the area, the first one close to Oakenholt Hall, and the second one passing close to Kelsterton. No references to the site location map with boreholes locations are present within the report, hence only the general sequence of strata found across the whole area can be summarised below:

- fill of hydraulically placed estuarine sand or pulverised fly ash to an average depth of 2.40 m bgl;
- alluvial sands overlain by organic silty clays in the area of old saltings, with varying depths between 3 m and 16.80 m bgl towards the River Dee; and

- carboniferous strata of variable material including shales, mudstones, siltstones, sandstones, coal and marls, showing great variability between boreholes.

7.6.5 The report indicated that groundwater level observations confirmed the tidal influence around the site.

7.6.6 The report discusses in detail the complexity of faulting present on site and suggests that minor faulting in the area cannot be eliminated.

7.6.7 It was concluded that despite the bedrock underlying the site being well suited for the support of a heavy concrete pressure vessel foundation, it was faulted and of variable quality. It was recommended that the results of a further detailed investigation are obtained to inform on secondary faults locations before the proposed layout is confirmed. Due to the presence of shallow groundwater (within approximately 3.05 m below the surface level), dewatering difficulties and weakening of strata were recommended to be considered.

7.7 The Cementation Co. Ltd (1968): 'Report on a site investigation at Connah's Quay Power Station for the Central Electricity Generating Board'

Introduction

7.7.1 The report was prepared to establish geotechnical considerations during construction of a further power station at Connah's Quay. It assesses ground conditions as a part of the feasibility study for the project and provides an assessment of possible foundation design.

7.7.2 The ground investigation programme comprised of drilling 13 no. boreholes using shell and auger technique, with the exception of borehole no. 3, which was extended from approximately 24.40 m to 76.20 m using rotary core drilling techniques during summer 1967. The investigated area roughly corresponds to the Main Development Area.

Summary of Key Information

7.7.3 The Main Development Area was confirmed to be underlain by variable alluvial soils, with two zones of glacial boulder clays in boreholes 10 and 11 (approximately in the central part of the Main Development Area). Surface soils were indicated to contain a significant organic content. Fly ash was recorded in Made Ground to depths from approximately 0.30 m to 3.80 m bgl.

7.7.4 Surface soils were reported to overlie Carboniferous bedrock comprising shales, mudstones, siltstones, sandstones and marls. These rocks were reported to be associated with fault zones. Coal bands were recorded in the borehole logs.

7.7.5 Water strikes were recorded at depths from approximately 0.90 m to 6.50 m bgl.

7.7.6 The report summarises geotechnical parameters of the tested soils and rocks. Pile foundations were deemed to be suitable, however, a further investigation was recommended before finalising any designs.

7.8 Soil Mechanics Ltd (1991): 'Site Investigation Connah's Quay for Powergen Plc'

7.8.1 A site investigation was undertaken for a proposed CCGT power station development, at a site of a disused power station on Connah's Quay. The investigated area corresponds to the eastern portion of the Main Development Area, with some investigation locations located north of the Electrical Connection Corridor.

7.8.2 The investigation comprised of 10 no. cable tool drilled boreholes, 8 no. on land and 2 no. on water, with 5 no. rotary coring follow on drilling and 23 no. trial pits. No engineering appraisal nor interpretation was provided.

7.8.3 The geology encountered included Made Ground comprising of PFA, overlying alluvial sands. These were underlain locally by Glacial Till. Bedrock comprised Upper and Middle Coal Measures. Apart from the presence of PFA, rare slag and clinker, no other descriptions of any contamination were observed in the log descriptions.

7.9 National Grid Company Plc (1994): 'Connah's Quay CCGT Banking Compound Site Investigation'

7.9.1 The report describes the ground investigations undertaken to inform the design of the foundations for a banking compound for the Power Station.

7.9.2 The programme of works comprised of four static cone penetration tests undertaken at the eastern end of the Connah's Quay CCGT Power Station site, adjacent to the existing Deeside 400kV substation (eastern end of the Main Development Area). The report references the 1991 site investigation conducted by Soil Mechanics Ltd and refers to the boreholes located in proximity to the banking compound, the area where CPTs were undertaken by Fugro Limited.

7.9.3 The tests estimated the soil types are sands of varying density with layers of clay. The depth of the tests varied from approximately 11 to 16 m bgl.

7.10 Uniper Technologies (2005): 'Connah's Quay Site Report for PPC Application- MP3337SH'

Introduction

7.10.1 The site report was submitted as part of an application to the Environment Agency for a permit to operate Connah's Quay Power Station under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000. The report reviews records of the site and its surroundings to describe the site condition with a focus on identifying any substance on or under the land that may constitute a pollution risk to the

land. Pollution prevention measures are identified and an assessment of pollution potential to land is presented.

7.10.2 The report was based on geotechnical and contamination studies of the Site carried out by Powergen (later renamed E.ON UK), prior to construction the of the plant. The site owned by E.ON UK comprised of the western part (with power station and gas treatment plant, and 11 hectares of nature conservation 'mitigation area' further to the west) and the eastern part (comprising former Connah's Quay power station site). These two parts were separated by land with a 400 kV substation, owned by the National Grid Company.

Summary of Key Information

7.10.3 Existing site investigation undertaken by Soil Mechanics (1991), WS Atkins (2000) and groundwater sampling and analysis data from Parsons Brinckerhoff (2005) is referenced. The conceptual site model includes for various groundwater monitoring information from between 1997 and 2005.

7.10.4 The report includes a list of chemicals stored on site and comments on the storage safety. The chemicals noted on site include: diesel fuel, oil, antifreeze, lubricant oil, 15% sodium hypochlorite, sulphuric acid, sodium hydroxide, ammonium, hydrazine solution, tri-sodium phosphate, phosphate ester oil, heat transfer liquid (30% monoethylene glycol).

7.10.5 All hard standing areas associated with storage were checked and no evidence of damage or staining were observed. The report notes that two rounds of groundwater sampling were undertaken during 2005 and concluded that sodium/chloride concentrations indicate probable hydraulic continuity of groundwater with the tidal river water; however, it is stated that water levels recorded since 1997 show that the tidal cycle has no significant effect on groundwater levels in the superficial deposits.

7.10.6 During the 2005 rounds of groundwater monitoring no significant concentrations of List I substances (Groundwater Regulations 1998) were detected; it was suggested that arsenic (marginally elevated) and molybdenum concentrations may reflect the extensive use of PFA as a fill material at the site.

7.10.7 The conceptual site model concludes that shallow groundwater within the alluvium forms a potential receptor; given the brackish nature of the receptor and its continuity with the River Dee, the main significance of groundwater may therefore be as a potential pathway to the salt marshes and river.

7.11 RPS (2015): 'Contaminated Land Due Diligence, Connah's Quay Power Station Summary Report'

Introduction

7.11.1 RPS was commissioned by E.ON to undertake a Phase 1 Contaminated Land Due Diligence Assessment of Connah's Quay Power Station and surrounding areas under E.ON's land holding. The purpose of the assessment was to establish the locations of known and potential sources of

contamination and the need for further action and/or investigation and likely remedial costs.

7.11.2 The assessment included zoning of the whole Site and included: Zone 1 – Nature Conservation and Surrounding area (part of Main Development Area), Zone 2 – Cooling Towers, Water Processing and Gas Plant (Main Development Area), Zone 3 – Power Station Turbine and Boiler Houses (Main Development Area and Water Connection Corridor) and Zone 4 – Former Demolished Power Station Site (C&IEA). The determination of exact borehole locations in relation to the Site mentioned in this report was not possible.

Summary of Ground Conditions

7.11.3 It was reported that Made Ground ranged from 1.6 m to 4.0 m bgl in Zones 1-3, with noted bands of PFA. It was suggested that crushed material from the demolition of the former Connah's Quay Power Station in Zone 4 may have been used to raise site levels in depressions within Zone 4, supported by upper layers of granular Made Ground with occasional concrete, brick and ash.

7.11.4 Zones 1-3 are predominantly underlain by superficial deposits of Alluvium at depths of between 9.7 to 19.7 m bgl. Boreholes drilled within the channel of River Dee were reported to contain Glacial Till below the alluvial deposits, at depths of between 11.8 m to 20.2 m bgl.

7.11.5 The Pennine Lower Coal Measures comprised interbedded mudstones, siltstones and sandstones present at varying depths below the superficial geology, with rockhead between 9.7 m and 20.2 m bgl. Rockhead in Zone 4 comprising siltstone and mudstone was reported to be present from 9 m bgl in southern areas, deepening to 12-15 m in central parts and deepest near River Dee to depths of 17 m bgl or more.

7.11.6 The report recommended further intrusive investigation to provide greater certainty on the extent of contamination and associated levels of risk from contamination and the need for remedial measures.

Summary of Key Information

7.11.7 Previous reports have been summarised and indicated the following issues:

- elevated (at the time of the reporting in 2000) arsenic, nickel, boron and sulphate in soil samples, and elevated sulphate and arsenic in groundwater samples;
- 9no. reportable incidents of land contamination have been reported to the EA, in addition to two losses of contaminants within stock control and 7 incidents of loss of containment or loss to land;
- a range of asbestos containing materials (bagged asbestos debris, cement board, insulating board, cloth, gasket and chrysotile and amosite fibers) were detected to a consistent depth of 2 m in the far northern area of Zone 4, underneath a concrete slab, comprising approximately 55% of the area. The waste materials extended beyond the concrete slab, particularly in south-eastern areas of deposit, which was observed to be eroded by The River Dee. General refuse materials comprising rubber tubing, concrete, metal, fabric, plastic, ceramic, glass and

polystyrene were found adjacent and to the north-west of the asbestos tip, indicating general additional landfill use in this area. Additional site investigation work was recommended to further delineate the extent of asbestos in soils in areas south-east of the slab;

- investigation detected asbestos containing material in one trial pit within the south-western area of Zone 4 at 0.5 m bgl. Elevated concentrations of mercury (0.1 – 2.7 µg/l) were detected in groundwater across all 6 boreholes in the western part of the Zone 4 – considered to be attributable to former process waters. Chloride, selenium and total polycyclic aromatic hydrocarbons (PAH) exceeded the screening criteria for groundwater at the time of reporting. Ground gases were insignificant and required no special precautions;
- WSP identified asbestos fibers and lagging (amosite and chrysotile) within the central and eastern sides of Zone 4 at 12 locations (55% of samples) and they considered these materials to be distributed site wide. A Moderate–High Risk was assigned to the presence of asbestos but it is noted in the report that the proposed site was to be elevated by 1-1.5 m with fresh imported material to alleviate flooding risks and therefore the capping was expected to lower the risk of exposure once constructed. Investigation positions covered central areas of the site not previously investigated. Isolated elevated ground gas conditions were detected in BH3 elevated gas (characteristic situation 3 as per CIRIA 665 Guidance). Semi-volatile organic compounds (SVOCs) total petroleum hydrocarbons (TPH) were above UK Water Industry Research guidance locally and it was considered that this may result in contaminant ingress into potable water supply pipes. The report also concluded that the Site would unlikely be classed as Part IIA contaminated land; and
- marginally elevated concentrations of arsenic and molybdenum were detected in groundwater under the permitted installation site, which was thought to be attributable to the presence of historical PFA deposits. The report concluded that the PFA is unlikely to be a significant source of environmental risk and that there is no need for further site investigation or additional gathering of reference data.

7.11.8 A site walkover undertaken on 17th April 2015 identified potential sources of contamination, which included various hydrocarbons, inorganics, polychlorinated biphenyls (PCBs), metal and asbestos. All these contaminants are associated with the existing and former Power Station infrastructure.

7.11.9 Ground gas data was available for Zone 4 only. An isolated peak of methane up to 14.5% was detected in BH3 and 4.9% of carbon dioxide was detected in BH14. Depleted oxygen levels to 1.1% (BH13) and flow rates between -40.3 (BH11) and +13.6 (BH3) were also reported in previous investigations. Conclusions from the PB 2011 and WSP 2012 investigations concluded that gas protection measures were not considered necessary.

Conclusions and Recommendations

7.11.10 Two areas within Zone 4 (the former Power Station due to presence of asbestos, and an asbestos tip within the grounds of the former power station) were highlighted as having a higher potential for attracting liability and or risk and therefore required further action or investigation to avoid

future liabilities. It is understood that an investigation was underway and appropriate action was being considered by E.ON to address these issues.

7.11.11 In relation to residual risk and quantification of liability, the report notes that, where groundwater contamination may have resulted from historical activities prior to environmental permit issue, the need for any direct groundwater remediation (e.g. pump and treat or permeable reactive barriers) will need to be determined by further detailed risk assessments possibly supported by intrusive investigations and sampling.

7.12 Uniper (2021): '2017 Remediation of Connah's Quay A Power Station Report'

Introduction

7.12.1 This report provides an overview of the work undertaken between July 2017 and May 2018 on the Connah's Quay A station site, a former coal fired station which was demolished in 1992. Ground investigation comprising of 16 no. trial pits, asbestos litter pick of the whole site, and laboratory testing, was undertaken in August 2017 to identify the extent of buried asbestos containing material that had previously been identified in 2015 by the RPS Contaminated Land Due Diligence report.

7.12.2 Remediation work was undertaken between November 2017 and September 2018 and included the extension of the capping provided by the existing concrete slab, reinstating fencing and notification to the public. An inspection of a culvert sluice chamber was also undertaken.

7.12.3 No scope relevant to groundwater monitoring/sampling/testing was undertaken.

7.13 Uniper Technologies Limited (2022): 'Connah's Quay Power Station Systematic Appraisal of the Risk of Contamination in Response to Environmental Permit Condition 3.1.3'

7.13.1 This technical information publication relates to the risk assessment which outlines the rationale and justification for groundwater monitoring having not been undertaken in accordance with the IPPC permit conditions. It forms a systematic appraisal of the risk of contamination, which has been undertaken by engagement with the Environment Representative at Connah's Quay Power Station, through a data gathering exercise and subsequent risk assessment.

7.13.2 The document summarises historic (pre-permit) incidents, which included seven incidents involving loss of containment or release of potentially polluting substances which were noted in the permit application, and nine notifications to the Environment Agency associated with land pollution incidents within the ~~site boundary.~~Order limits. It also states that the Site was fully remediated before construction in 1995/1996.

7.13.3 It was reported that on 16th September 2013, a weekly bund inspection identified a breach of the hydrochloric acid bund. The resulting acid attacked

the concrete around the bund sump and made its way onto the ground outside the bund. The total loss of acid from the tank was calculated to be 1.9 tonnes. The immediate response to the incident involved analysis of soils and off-site disposal by a specialist contractor. A civil inspection and structural repairs were carried out to provide appropriate containment. The contaminated materials were excavated and removed, hence it was concluded that no contaminant linkage remained from the incident. Since then, regular bund inspections were reported to have been taking place on the Site.

7.13.4 The document notes that no significant residual risks to soils or groundwater have been identified in the period since issue of the current environmental permit. Uniper note that based upon the assessment there is limited value in conducting soil and groundwater sampling when each site maintains a robust management of its risks and any incidents that have arisen since permit issue have been dealt with appropriately. It notes that any pre-permit/legacy contamination will be sufficiently characterised (and remediated if required) as part of the Environmental Permit surrender process.

7.13.5 The report recommended a periodic review in accordance with the mandated five-yearly and ten-yearly frequencies for groundwater and soils respectively. It is noted that this should occur five years and ten years, respectively, from the publication date of the report.

7.13.6 Appendix included in the report lists substances stored at the site, and these include various: hydrochloric acids, sodium hydroxide, diesel fuel, sodium hypochlorite, sulphuric acid, ammonia solution, sulphuric acid, heat transfer liquids, transformer insulating oil, waste lube oil, molecular sieve material, mineral oil, activated carbon absorbent, di-ethylene glycol monobutyl ether and control fluid / hydraulic fire-resistant fluid. Only one entry recorded significant pollution and it was associated with cooling water biocide – sodium hypochlorite 15%.

7.14 Uniper Technologies (2022): 'Connah's Quay Hydrogen – North Site Evaluation Report'

Introduction

7.14.1 Uniper Technologies was commissioned to undertake a baseline study of the Connah's Quay North Site (parts of Main Development Area) to identify available land for hydrogen development, and potential constraints and risks. The work was undertaken through a review of documentation and consultation with key staff from the Site and Uniper's Land Management Team.

7.14.2 The report summarises the Power Station infrastructure, discussing options for various power and gas related infrastructure options and recommendations. Site planning status and permitting were also discussed.

7.14.3 Environmental constraints included in the report related to flooding, noise conditions, water abstraction and discharges, aquatic and terrestrial ecology and air quality.

Summary of Key Information and Recommendations

7.14.4 The report includes information on the location of culverts present on site: one goes below the eastern part of Main Development Area, one in the south-eastern corner of the C&IEA, and one adjacent to the eastern boundary of Electrical Connection Corridor. Off-site culverted drains south of the Main Development Area are also reported.

7.14.5 Preliminary studies indicated that power, water and gas will continue to be available after the CCGT has closed and that supply infrastructure was in good condition. It was assumed that infrastructure could be retained in their current form, subject to standard life extending engineering works and compliance with contemporary regulatory requirements.

7.14.6 Environmentally, the site was bounded to the north and east by sensitive designations associated with the Dee Estuary, which was considered a significant risk requiring consideration as part of future design activities. It was recommended that a qualified ecologist is appointed to advise on how the Site can be developed in an ecologically sensitive manner. Site flood risk was also recommended to be taken into account and it was noted that this is the subject of ongoing discussions with the local council. Early consultation with the environmental regulatory authorities, in particular NRW and FCC, was recommended, as it was stated that this could impact on the selection of technology, site layouts and plant sizing.

7.14.7 The report notes that groundwater has been encountered within the alluvial materials at depths between 4 m and 5 m below ground level (bgl) and that the regime within the alluvial deposits is controlled by tidal influences, confirmed by E.ON groundwater monitoring results from July 2005, which identified concentrations of sodium and chloride within groundwater samples. The report also notes that concentrations of marginally elevated arsenic and molybdenum were also reported and are believed to reflect the extensive use of PFA as a fill material in the Made Ground under the Power Station.

7.14.8 It was noted that water abstraction is controlled by NRW under an abstraction license (and that the site does not abstract or use groundwater), but that in 2023 abstraction licensing will be moved into the environmental permitting regime. The report also notes that the main water discharge from the site is controlled by NRW through the station environmental permit.

7.14.9 No further specific information is provided with regards to groundwater monitoring/sampling/testing.

7.14.10 Ground investigation was recommended following the completion of the feasibility studies to characterise land quality for the specific proposed development within the study area.

8. Initial Conceptual Site Model

8.1 Introduction

8.1.1 This section is aimed at identifying possible risks, if any, arising from substances used or deposited on the Site, or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered. It is based on the Proposed Development as a Low Carbon CCGT Generating Station and associated development including water, gas and grid connections and a landscaping and biodiversity management area, as described in **Chapter 4: The Proposed Development** (**EN010166/APP/6.2.4**).

8.1.2 The risk assessment process for environmental contaminants is based on a source-pathway-receptor analysis. These terms can be defined as follows:

- source: a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution; and
- pathway: a route by which a receptor is or could be affected by a contaminant: examples include ingestion of contaminated soil and leaching of contaminants from soil into watercourses; and
- receptor: something that could be adversely affected by a contaminant: examples include human occupants / users of Site, water resources (surface waters or groundwater), or structures.

8.1.3 For a risk to be present, there must be a relevant / viable contaminant linkage; i.e. a mechanism whereby a source can reasonably impact on a sensitive receptor via a pathway.

8.1.4 The following sections detail the initial CSM which has been developed for the Proposed Development with a view to assessing the potential risks / liabilities and constraints associated with the Site in its current condition prior to the Proposed Development taking place. Risks associated with the Proposed Development have also been assessed based on an industrial future land use scenario, including any potential sources of contamination, potential receptors and potential contaminant pathways identified during this desk based assessment.

8.2 Sources of Potential Contamination

8.2.1 This section highlights those former and current on-site and off-site activities that have been identified as potential sources of contamination for the Site. These activities may have in turn impacted on soil, soil leachate and groundwater.

8.2.2 **Table 16** indicates potential on-site and off-site sources of contamination identified from this Phase 1 desk based assessment. With reference to Annex 3 of the National House Building Council (NHBC), Chartered Institute of Environmental Health (CIEH) and Environment Agency Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66: 2008 (Ref 18), **Table 16** also indicates the potential contaminants that may be associated with the potential sources identified.

Table 16: Potential Sources

Potential Source	Location	Associated Contaminants of Potential Concern (CoPC)
Connah's Quay Power Station (formerly coal-fired, currently gas fired), including tanks, Made Ground and capped asbestos landfill	Main Development Area C&IEA Water Connection Corridor	Potential for metals and semi-metals; inorganics (ammonia, sulphate, sulphide, asbestos, acids and alkalis, pH); organics (oil/ fuel hydrocarbons, PAH, volatile (VOC) and SVOC, PCB, TPH, glycols. Potential for ground gases including methane, hydrogen sulphide and carbon dioxide.
Connah's Quay North Jetty and associated infrastructure (off River Dee), including electrical substation and tank.	Hardstanding Expansion at Connah's Quay North Jetty 180 m north-east of the C&IEA.	Potential for TPH; PAH; hydrocarbons and PCB, asbestos
Electrical substation and associated buildings (off-site but enclosed by Electrical Connection Corridor)	Enclosed by the footprint of the Electrical Connection Corridor.	Potential for TPH; PAH; hydrocarbons and PCB, asbestos
Potentially infilled pits, unspecified ground workings and quarries (on-site and off-site)	Recorded on Main Development Area and within 250 m from the Adjacent to Repurposed CO_2 Connection Corridor.	Potential for ground gases including methane, hydrogen sulphide and carbon dioxide.
Historical mine workings and mine shafts (on-site and off-site)	Recorded overlapping the Repurposed CO_2 Connection Corridor; 65 m south of the Main Development Area, and 140 m east.	Potential for mine gases in bulk including methane and cardon dioxide.
Current railway line (on-site); former railway off	Adjacent to the southern boundary	Potential for metals and semi-metals; inorganics (sulphate, asbestos); organics (PAH,

Potential Source	Location	Associated Contaminants of Potential Concern (CoPC)
River Dee (on-site); former railway line associated with former power station (off-site~~); former railway off River Dee~~)	of the Main Development Area Within the Repurposed CO_2 Connection Corridor. Historical railway sidings off the River Dee overlapping the Hardstanding Expansion at Connah's Quay North Jetty. Historical railway adjacent to the eastern boundary of Electrical Connection Corridor and western part of C&IEA. ~~Historical railway sidings off the River Dee.~~	chlorinated aliphatic hydrocarbons, PCB).
Current and former agricultural land and farms (on-site and off-site)	Within and surrounding the Proposed CO_2 Connection Corridor and the Repurposed CO_2 Connection Corridor.	Potential for a range of organic and inorganic contaminants including, but not limited to, metals, hydrocarbons (diesel range, lubricating oils, solvents), ammonia, elevated biochemical oxygen demand (BOD), elevated chemical oxygen demand (COD), pesticides and asbestos
Former landfill sites (on-site and off-site)	Two located on ~~site (~~the Main Development Area~~)~~ and extending further to the west. ~~Four~~One (Shotton Works/British Steel No. 2) overlapping the Hardstanding Expansion at Connah's Quay	Various deposited wastes including inert, industrial and commercial waste. Potential for a range of inorganic and organic contaminants including but not limited to heavy metals, acids, organic compounds, inorganic compounds, asbestos, TPH, PAH,

Potential Source	Location	Associated Contaminants of Potential Concern (CoPC)
	North Jetty and extending east, south and north. Three off-site, one located adjacent to the Electrical Connection Corridor and 80 m north-east of the C&IEA. One located 90 m west of the Repurposed CO_2 Connection Corridor (J. and J. Makin). Two located north of the Site, beyond the River Dee (Shotton Works Landfill and Tata Steel Historical landfill and Refuse Tip), ~~within 250~~70 m north of the ~~Site~~Hardstanding Expansion at Connah's Quay North Jetty.	VOC, SVOC, solvents, lubricants, fuel oils, alkalis, PCB. Potential for ground gases including methane, hydrogen sulphide and carbon dioxide.
Oakenholt Paper Mill (SCA Hygiene Products), including tanks and electrical substation (off-site)	Adjacent to the Repurposed CO_2 Connection Corridor Located approximately 180 m to the south-west of the Main Development Area.	Potential for range of compounds including but not limited to inorganics, metals, organics, solvents, alkalis and acids, oils and PCB.
Marshland, peat (on-site and off-site)	Within soils on-site and off-site.	Potential low levels of ground gas – methane and carbon dioxide.
Oakenholt Household Waste Recycling Centre and light industrial properties (on-site and off-site)	Located 20 m south of the Main Development Area and on Repurposed CO_2 Connection Corridor.	Potential for metals, inorganic compounds, acids, alkalis, asbestos, organic compounds including fuels, oils, solvents, PCB, asbestos.

Potential Source	Location	Associated Contaminants of Potential Concern (CoPC)
Infilled land: old sand pits, potentially infilled land, historical heaps (on-site and off-site)	On-site: southern and western parts of Main Development Area, Electrical Connection Corridor. Off-site: 200 m east of the Proposed CO_2 Connection Corridor; multiple within 250 m east of the Repurposed CO_2 Connection Corridor.	Potential for a range of inorganic and organic contaminants including but not limited to PFA and other coal by-products, which may contain heavy metals, acids, organic compounds, inorganic compounds, asbestos, TPH, PAH, VOC, SVOC, solvents, lubricants, fuel oils, alkalis, PCB. Potential for ground gases including methane, hydrogen sulphide and carbon dioxide.
Various historical tanks (off-site)	Multiple locations, within 250 m of the Site.	Unknown contents of tank, but suspected potential compounds including but not limited to fuels, oils or solvents.
Former rifle range (on-site)	Historically located in the south-western part of the C&IEA.	Potential for UXO and heavy metals associated with spent ammunition
Car garages (off-site)	Multiple locations, 50-100 m south of the C&IEA, 90 m south of the Main Development Area.	Potential for range of compounds including but not limited to metals, acids and alkalis, asbestos, organic compounds including fuel and hydrocarbons, detergents, solvents, and PAH
Petrol Filling Station (off-site)	Located 100 m south of the C&IEA.	Potential for range of compounds including but not limited to lead and fuels/hydrocarbons
Pumping stations (off-site)	Multiple locations, 70 m south of the C&IEA.	Potential for range of compounds including but not limited to metals, organics and inorganics, asbestos
Filter beds and slurry beds (off-site)	Located 250 m north-west of the Proposed CO_2 Connection Corridor, 80 m south of the Repurposed CO_2 Connection Corridor.	Potential for range of compounds including but not limited to organics and inorganics, including acids and alkalis, microorganisms and gas including methane, carbon dioxide and hydrogen sulphide

Potential Source	Location	Associated Contaminants of Potential Concern (CoPC)
Breweries (off-site)	Multiple locations, 250 m south of the Main Development Area.	Potential for range of compounds including but not limited to metals and inorganic compounds, elevated BOD and COD.
Old lime kiln, and old lime kiln with tank (off-site)	Located 250 m south-west and 220 m northwest of the Proposed CO_2 Connection Corridor.	Potential for range of compounds including but not limited to metals and inorganic compounds. Unknown contents of tank, but suspected potential compounds including but not limited to fuels, oils or solvents.

8.3 Potential Pathways

8.3.1 Potential pathways are shown in **Table 17**, below.

Table 17: Potential Pathways

Pathway Reference	Pathways
P1	Direct contact / ingestion of contaminants within Made Ground / soils, together with soil derived dust and groundwater.
P2	Inhalation of organic vapours from Made Ground / soils, soil derived dust, and groundwater.
P3	Leaching of soluble contaminants and migration of mobile contaminants into shallow groundwater.
P4	Vertical groundwater flow through Made Ground and superficial deposits to underlying bedrock aquifer.
P5	Lateral groundwater flow and direct run-off to surface waters.
P6	Vertical migration of ground gases to indoor and outdoor air and migration of ground and potential mine gases into enclosed spaces (inhalation/ asphyxiation/ explosion).
P7	Inhalation of asbestos fibres.
P8	Direct contact of buried concrete with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate)/ direct contact of services and supply pipes with contaminated soils.
P9	Indirect Pathway: Ground and mine gas accumulation and potential explosion risk

8.4 Potential Receptors

8.4.1 Potential receptors are shown in **Table 18**, below.

Table 18: Potential Receptors

Receptor Reference	Receptors
R1	Human health (on-site users): Current commercial users (workers at Connah's Quay Power Station and at the Proposed CO_2 Connection Corridor)
R2	Human health (on-site users): Current public open space users / trespassers (predominantly C&IEA) / bird watchers
R3	Human health (on-site users): Future commercial users (workers at Connah's Quay Power Station)
R4	Human Health (off-site users): Current and future commercial and public open space users (surrounding)
R5	Current and future residential users (Kelsterton and Golftyn adjacent to south)
R6	Groundwater: superficial geology Glaciofluvial Deposits are classified as a Secondary A aquifer Tidal Flat Deposits and Till are classified as a Secondary Undifferentiated aquifer
R7	Groundwater: bedrock geology (Pennine Lower Coal Measures Formation (sandstone, siltstone, mudstone), Etruria Formation (mudstone, sandstone and conglomerate), Gwespyr Sandstone (sandstone and argillaceous rocks, interbedded) are all classified as a Secondary A aquifer.
R8	Surface Waters: located on-site and off-site (various unnamed drains, River Dee, Kelsterton Brook, Lead Brook, ponds) Surface water abstractions located within Water Connection Corridor (not potable)
R9	Building and infrastructure: located on-site and off-site: infrastructure at risk from ignition of gas in confined space, below ground infrastructure at risk from aggressive ground conditions
R10	Ecological designated sites adjacent to the Site: Ramsar site, SSSI, SPA and SAC – River Dee, ancient woodland (approximately 50 m east of Proposed CO_2 Connection Corridor)
R11	Non-statutory designated ecological sites: Connah's Quay Power Station Nature Reserve (non-statutory) – Dee Estuary

9. Environmental Risk Assessment

9.1 Risk Assessment Principles

9.1.1 Current best practice recommends that the determination of hazards due to contaminated land is based on the principle of risk assessment, as outlined in the Environment Agency's published revised online guidance for the management of land contamination 'LCRM' (Ref 37).

9.1.2 For a risk to be present, there must be a viable contaminant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

9.1.3 Assessment of risks associated with each of these potential contaminant linkages are discussed in the following sections.

9.1.4 Using criteria broadly based on those presented in NHBC/CIEH/EA publication R&D 66 (Ref 19) the magnitude of the risk associated with potential contamination at the Site has been assessed. To do this, an estimate is made of:

- the magnitude of the potential consequence (i.e. severity); and
- the magnitude of probability (i.e. likelihood).

9.1.5 The severity of the risk is classified according to the criteria in **Table 19**, below.

Table 19: The Severity of Risk

Severity	Definition and Examples
Severe	highly elevated concentrations likely to result in significant harm to human health. catastrophic damage to crops, buildings or property (e.g., by explosion). equivalent to EA Category 1 pollution incident including persistent and / or extensive effects of water quality. major damage to aquatic or other ecosystems.
Medium	elevated concentrations which could result in significant harm to human health. significant damage to crops, buildings or property (e.g., damage to building rendering it unsafe). equivalent to EA Category 2 pollution incident including significant effect on water quality. significant damage to aquatic or other ecosystems
Mild	exposure to human health unlikely to lead to significant harm. minor damage to crops, buildings or property (e.g., surface spalling to concrete). equivalent to EA Category 3 pollution incident including minimal or short-lived effect on water quality. minor or short-lived damage to aquatic or other ecosystems.
Minor	no measurable effect on humans.

Severity	Definition and Examples
	repairable effects of damage to buildings, structures and services. equivalent to insubstantial pollution incident with no observed effect on water quality of ecosystems.

9.1.6 The probability of the risk occurring is classified according to the criteria in **Table 20**, below.

Table 20: Probability of Risk

Probability	Definition and Examples
High	There is a pollutant linkage, and an event would appear 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 pollutant 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	There is a pollutant linkage and circumstance are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place and is less likely in the shorter term.
Unlikely	There is a pollutant linkage, but circumstances are such that it is improbable that an event would occur even in the very long-term.

9.1.7 An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in **Table 21**, below.

Table 21: Probability and Severity Matrix

Probability \ Severity	Severe	Medium	Mild	Minor
High	Very High	High	Moderate	Moderate/ low
Likely	High	Moderate	Moderate/ low	Low
Low	Moderate	Moderate/ low	Low	Very Low
Unlikely	Moderate/ low	Low	Very Low	Very Low

9.2 Preliminary Risk Assessment

9.2.1 In accordance with the risk assessment principles outlined above, a preliminary evaluation of the potential risks associated with all the identified sources at the Site (**Table 16**), through the potential pathways (P1 to P9) to

the various potential receptors (R1 to R11) is discussed and presented in **Table 22**, below. The level of risk is determined based on the current condition of the Site (i.e. the effects of mitigation measures are not included). Mitigation is then proposed based on the level of risk. In some cases, a degree of mitigation is assumed as part of legislative requirements or standard construction practice. This is acknowledged where these assumptions are made.

9.2.2 The preliminary risk assessment undertaken within this section does not consider acute linkages for construction and maintenance workers. It is anticipated that these acute linkages will be managed by appropriate health and safety measures. These are discussed further in Section 9.3.

9.2.3 It should be noted that the preliminary mine gas risk assessment (presented in Section 4.4) assigns risk in accordance with the CL:AIRE 2021 guidance; this determines the risk of mine gas being present and is distinct from the R&D 66 risk assessment approach presented in this section which assesses risk to receptors.

Table 22: Preliminary Risk Assessment

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
P1: Direct contact/ingestion of contaminants within Made Ground/soils, together with soil derived dust and groundwater	R1: Current commercial site users R2: Current public open space users / trespassers (predominantly C&IEA)	Medium	Low	Moderate/ low	L1	The Site has the potential for contamination from various sources, predominantly including the former coal fired power station and the current Connah's Quay power station and a number of on-site and nearby off-site former landfills. However, it is noted that there is reference to the site having been remediated in 1995/1996 prior to construction of the current site layout and also remediation having taken place concerning asbestos picking and extension of capping between November 2017 and September 2018. There has also been localised remediation in response to pollution incidents to land. Off-site sources associated with historical tanks, filter beds, car garages, petrol filling station, pumping stations and breweries, as well as on-site historical rifle range are not considered to pose an unacceptable risk to the receptors due to distance away from the Site and the generally low contaminative nature of the sources. L1: The potential risk to current on-site users from direct contact / ingestion of contaminants has been assessed as moderate/low. The current Connah's Quay Power Station area is currently hardstanding and buildings, reducing
	R3: Future commercial Site users	Medium	Unlikely	Low	L2	
	R4 and R5: Current and future off-site users	Medium	Unlikely	Low	L3	

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
						exposure risk. Areas of exposed ground are not routinely used by members of the public beyond the immediate Power Station footprint; the risk is therefore considered to be moderate/low as they are temporary site users and their time on-site will be transient. L2: The potential risk to future on-site users from direct contact/ ingestion of contaminants has been assessed as low due to proposed hardstanding and buildings limiting the potential exposure to CoPC and hence reducing exposure risk. Furthermore, wind-blown particulates are unlikely to be mobilised due to future development cover. L3: The potential for direct contact/ingestion of contaminants on-site is considered to be low based on the distance of the off-site users from the on-site sources.
	R10: Ecological sites: Ramsar site, SSSI and SAC – Dee Estuary and Dee River	Medium	Low	Moderate/ low	L4	L4: The risk to the SPA, SAC, Ramsar site and SSSI which encompass the River Dee at the locations of the proposed cooling water abstraction and outfall for the Proposed Development is considered to be moderate/low based on the sensitivity of this designated ecological site.

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
	R11: Connah's Quay Power Station Nature Reserve (non-statutory) – Dee Estuary	Mild	Low	Low	L5	L5: The risks to the identified non-statutory designated ecological sites (Nature Reserve) area considered to be low. If phytotoxic contaminants are found to be present within the Made Ground, these can normally be mitigated through suitable topsoil/ subsoil cover.
P2: Inhalation of organic vapours from Made Ground/ soils, soil derived dust and groundwater	R1: Current commercial site users R2: Current public open space users / trespassers (predominantly C&IEA)	Medium	Low	Moderate/ low	L6	L6/L7: The level of risk with regards to potential vapours emanating from within Made Ground is considered to be moderate/low due to the severity of the hazard rather than the likelihood of occurrence for the current and future Site users. Hardstanding across some of the Main Development Area again reduces the risk to a degree. L8: There is a potential for organic soil contamination to be present on-site. The risk to confined spaces located in off-site areas from accumulation of site-derived vapour and potential inhalation is considered to be low. Measures to control the generation of soil derived dust/vapours should be outlined in the Construction Environmental Management Plan taking into account CIRIA C741 4th Edition 'Environmental Good Practice On Site' (2015).
	R3: Future commercial Site users	Medium	Low	Moderate/ low	L7	
	R4 and R5: Current and future off-site users	Medium	Unlikely	Low	L8	

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
P6: Vertical migration of ground gases to indoor and outdoor air and migration of ground and potential mine gases into enclosed spaces (inhalation/ asphyxiation/ explosion)	R1: Current commercial site users R2: Current public open space users / trespassers (predominantly C&IEA)	Severe	Low	Moderate	L9	L9: Ground gases may be present due to the extent of former landfills and infilled land on-site and off-site, and marshland/peat. Previous investigation noted elevated concentrations of methane and carbon dioxide. L10: Ground gases may be present due to the extent of former landfills and infilled land on-site and off-site. Mine gases might be present due to the recorded shallow coal mining works in the area. If ground gases and mine gases are found to be present, these will need to be mitigated as part of any future building design. The risks from ground and mine gases are considered to be moderate for the future workers within the Proposed Development. L11: Ground gas may be generated within the Proposed Development due to the extent of Made Ground expected as a result of the former landfills. There is potential for ground gas (if present) to migrate off-site and affect nearby properties although there is no evidence this is happening currently. L9/L10/L11: Coal mining and potential shallow workings have occurred on-site (albeit mapped in localised areas within the Repurposed CO_2 Connection Corridor);
	R3: Future commercial Site users	Severe	Low	Moderate	L10	
	R4 and R5: Current and future off-site users	Severe	Unlikely to low	Moderate/ low to Moderate	L11	

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
						several mine entries were identified in proximity to the Site and associated with a number of coal seams mapped in the area. Mine gases from abandoned coal mining can enter buildings where they may accumulate to present a risk to human health through asphyxiation and explosion. A Detailed assessment of mine gas risk is recommended.
P7: Inhalation of asbestos	R1: Current commercial site users R2: Current public open space users / trespassers (predominantly C&IEA)	Severe	Unlikely to low	Moderate/ low to moderate	L12	L12: There Is potential for asbestos to be present in any Made Ground on-site and potentially within buildings (depending on their age). Moreover, Asbestos has been confirmed to be present within soils, with particular reference to the C&IEA. It is understood these have been partially remediated through capping; the presence of asbestos fibres within shallow soils is considered to be unlikely to low and in the absence of controls there is the potential for air-borne dispersion if soils containing asbestos are disturbed. As asbestos presents a risk if it is disturbed, it is considered that the likelihood of this risk being realised is unlikely and therefore the overall risk moderate/low has been concluded. If asbestos is encountered during future
	R4 and R5: Current and future off-site users	Severe	Unlikely	Moderate/ low	L13	

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
	R3: Future commercial Site users	Severe	Unlikely to low	Moderate/ low to moderate	L14	redevelopment, it must be managed in accordance with the Control of Asbestos Regulations 2012. L13: It is understood asbestos at the C&IEA has been partially remediated through capping, the presence of asbestos fibres within shallow soils affecting public is considered to be unlikely. L14: While it is understood that C&IEA have been partially remediated through capping, the presence of asbestos fibres within shallow soils is considered to be unlikely to low. Any Made Ground found to be contaminated with asbestos or buildings containing asbestos would require suitable management if it is to be retained on-site.
P3: Leaching of soluble contaminants and migration of mobile contaminants into shallow groundwater	R6 and R7: Groundwater: Secondary A aquifers (superficial – Glaciofluvial Deposits, bedrock–- Pennine Coal Measures	Medium	Low	Moderate/ low	L15	L15: Groundwater levels within the historical borehole records indicate shallow groundwater levels within the superficial geology of between 0.9 m – 2.80 m bgl. Lateral and vertical migration through preferential pathways within the Made Ground may facilitate infiltration to the underlying superficial Secondary A aquifer. The extent to which the groundwater in the superficial deposits is connected to groundwater in the

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
P4: Vertical groundwater flow through Made Ground and superficial deposits to underlying bedrock aquifer	Formation, Etruria Formation, Gwespyr Sandstone) Secondary Undifferentiated aquifer (superficial–- Tidal Flat Deposits and Till)					underlying Pennine Coal Measures (Secondary A aquifer) is not confirmed. Tidal influence, if present, could facilitate mobilisation of contaminant within soils into the aquifer. It is considered that there is a moderate/ low risk for contamination to impact the groundwater within the superficial deposits and potentially bedrock. Monitoring would be required to confirm the current groundwater quality regime. The majority of the off-site sources associated with historical tanks, filter beds, car garages, petrol filling station, pumping stations and breweries, as well as on-site historical rifle range are not considered to pose risk to the receptors due to distance away from the Site and low contaminative nature of the sources.
P5: Lateral groundwater flow and direct run-off to surface waters	R8: Surface Waters: located on-site and off-site Surface water abstraction located on-site (not potable)	Medium	Low to likely	Moderate/ low to moderate	L16	L16: On-site surface water receptors are culverted and may reduce the likelihood of direct impact by contaminated soil or groundwater, subject to the culverts' condition. However, the nature of the Site and its surrounding area, including the indicated naturally high groundwater levels and the proximity of numerous surface water features, indicates a potential for the groundwater to

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
						provide base flow to off-site surface water receptors, predominantly the River Dee. Previous reports suggest the potential for tidal influence on the River Dee and groundwater beneath the Site, and hydraulic continuity between groundwater at the Site and the river water; tidal influence, if present, could facilitate mobilisation of contaminant within soils into the aquifer. There is no information on surface water quality. Therefore, there is considered to be a moderate/low to moderate potential risk to surface watercourses and the surface water abstractions (not potable).
P8: Aggressive attack through direct contact with natural ground or contaminants within Made Ground/ soils, leachate and groundwater	R9: Building and infrastructure: located on-site and off-site	Mild	Likely	Moderate/ low	L17	L17: The risk to foundations and services is considered to be moderate/low based on the potential for on-site contamination within the Made Ground/soils, leachate and groundwater. L18: Ground gases may be present due to the extent of former landfills on-site and off-site and so there is the potential for ground gas migration and build-up in confined spaces. Where methane is identified at certain levels, there is the potential for explosion to occur, albeit unlikely. If ground gases are found to be present, these would need to be mitigated as part of the future Proposed Development design.
P9: Ground and mine gas accumulation and potential explosion risk		Severe	Low	Moderate	L18	

Pathway	Receptor	Potential severity	Likelihood of occurrence	Potential risk (R&D 66)	Linkage reference	Justification
						Coal mining shallow workings have occurred on-site (albeit mapped in localised areas within the Repurposed CO_2 Connection Corridor); several mine entries were identified in proximity to the Site and associated with a number of coal seams mapped in the area. Mine gases from abandoned coal mining can enter buildings where they may accumulate into buildings to present a risk of explosion. A Detailed assessment of mine gas risk is recommended.

9.3 Discussions of Risks to Construction Workers and Off-Site Receptors during Construction Works

9.3.1 As described in **Chapter 4: The Proposed Development** (**EN010166/APP/6.2.4**), the Proposed Development works will be undertaken in compliance with Construction Design and Management Regulations 2015.

9.3.2 Prior to work commencing, a health and safety risk assessment should be carried out by the appointed Principal Contractor and this should be developed in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, permanent site staff and the local surrounding population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction period.

9.3.3 The greatest potential for generation of dust will be during the enabling and construction works. Dust generation would be minimised through the use of measures which will be outlined in the **Framework Construction Environmental Management Plan** (**CEMP**) (**EN010166/APP/6.5**) submitted with the DCO Application. This will take into account relevant best practice, for example, 'Environmental Good Practice on Site', CIRIA Publication C692 (Ref 20) to reduce this risk to acceptable levels. The risk to future construction workers is considered to be low; however, this assumes the preparation of a construction management and health and safety plan including the use of PPE in accordance with statutory health and safety requirements. The potential for ground gas risks should be considered when developing Health and Safety Plans for works at the Site and a monitoring programme for occupational exposure risk should be considered. Further details regarding the management of dust during the construction phase are available within **Chapter 8: Air Quality** (**EN010166/APP/6.2.8**) and **Appendix 8-B: Air Quality Construction Dust Risk Assessment** (**EN010166/APP/6.4**).

10. Preliminary Assessment of Ground Hazards

10.1.1 A summary of the ground-related risks identified in this report is given in **Table 23**, below. The risks identified as being potentially present within the Order limits could have potential implications on both ground engineering and foundation design.

10.1.2 The risks are defined as follows:

- high: Unacceptable risk. Re-examine approach to provide a lower risk. Further investigation and / or mitigation measures and / or method of work alterations required;
- medium: There is the potential for the risk to be unacceptable and mitigation measures and / or method of work alteration to be required. Requires further investigation; and
- low: Broadly acceptable with currently available information if all reasonably practicable control measures in place where necessary.

Table 23: Preliminary Ground Hazard Assessment

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
Soft/ compressible deposits (low bearing capacity and high settlement)	The published geology and historical boreholes indicate the presence of superficial deposits (Till, Alluvium/ Tidal Flat Deposits, Glaciofluvial Deposits of sands and gravels) across the majority of the Site. Areas of soft/ compressible deposits (particularly in the Alluvium and Tidal Flat Deposits) might give rise to a risk of settlement of new structures. Groundsure data for the Site confirms that compressibility and uneven settlement hazards are probably present, especially in the northern part of the Site.	High	Potential for excessive settlement and differential settlement.	Ground investigation with appropriate testing to understand the compressibility of the deposits, to determine the ground conditions and to provide the basis for a design of new structures which can tolerate settlement and / or which limit the load imposed on compressible strata.
Made Ground	Made Ground associated with the historical activities on the Site as a former power station and on-site historical landfill activities will likely be present. The made ground could be relatively deep in places,	High	Made Ground, given its general vertical and lateral variability, is unsuitable as a founding stratum unless re-engineered.	The extent of any Made Ground would need to be confirmed through the ground investigation. Dependent on depth/thicknesses and material types, ground improvement, appropriate

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
	especially in the areas of former landfill.			foundations or removal/replacement of Made Ground would be considered as part of design recommendations.
Lateral changes in ground conditions	The published geology and historical ground investigation reports indicate that there could be lateral variation in the unit thicknesses of strata and their geotechnical properties across the site, as well as changes in strata due to the presence of faults.	High	Variable ground conditions could mean that a single engineering solution might not be appropriate for the whole site.	Ground investigation would reduce the uncertainty in the variable ground conditions; however, it is unlikely to completely eliminate the risk. Therefore, a development strategy which caters for a range of compatible engineering solutions to mitigate risks would be provided.
Presence of historical coal mine workings	An area included within the Repurposed CO_2 Connection Corridor is indicated to lie within a Development High Risk Area. The Development High Risk Area extends to the southeast and includes coal outcrops (overlapping the Repurposed CO_2 Connection Corridor); mine entries are indicated in close proximity to the	High	There is plausible risk of unrecorded shallow workings associated with coal seams mapped on the Repurposed CO_2 Connection Corridor, the Main Development Area, the Proposed CO_2 Connection Corridor, and the C&IEA. The implication of workings could be voiding beneath structures, ground	Purchase and review of the Mining Remediation Authority Consultant's Mining Report and records/mine plans to be undertaken to determine location and depth of underground workings (if present) and mine shafts/ adits. Depending on the findings from the Mining Remediation Authority report, ground investigation to target areas located in

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
	Site; probable shallow coal mine workings and an area of surface mining (past and current) are mapped adjacent to, or slightly overlapping, the Repurposed CO_2 Connection Corridor. Past shallow coal mine workings are mapped 150 m east. Multiple inferred coal seams (Llwyneinion Half Yard, Premier, and Ruabon Yard) of possibly workable thickness are mapped across the Site and are of potential workable thickness.		subsidence and collapse (shallow workings and shafts/ adits); Ground gas; Potential mine gas implications associated with coal mining activities; Unexpected remediation costs.	proximity to the known mine features and to monitor for mine gas. Therefore, a Coal Mining Risk Assessment (CMRA) should be produced (if it does not exist already).
Landslides	Groundsure data indicates that slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered. A small area where slope instability may be present has been identified	Medium	Excavation instability, slope failure. Benching of slope for foundations or for temporary works.	Ground investigation to determine soil shear strength parameters and subsequent assessment of slope stability.

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
	adjacent to the southern boundary of the Main Development Area.			
Shrinking and swelling clays	Groundsure data for the Site confirms that ground conditions are predominantly of low plasticity (non-plastic for southern part of the Alternative Access to the Main Development Area and Access to C&IEA and Proposed CO_2 Connection Corridor)	Medium	Potential for shrinkage or swelling of clay strata at the formation resulting from moisture content changes.	Ground investigation with appropriate testing to understand the behaviours of the deposits, to determine the ground conditions and ensure an acceptable and adequate formation leading to a safe design.
Running sands	Groundsure data for the Site confirms that sands with the potential to form running sands are probably present, although in the majority of the areas are considered as unlikely. Running sands are created by modification to the groundwater pressures in the sands such as during excavations.	Medium	Excavation instability and potential for ground loss if groundwater pressures are not controlled and if effective drainage is not implemented. Requirement for additional dewatering of the sands in advance of excavation, excavation supports such as driven sheet piles increasing construction costs and causing delays.	Ground investigation to determine ground composition, groundwater pressures and the response of the sands to excavation and groundwater drawdown. Where the risk of causing running sands is confirmed, design dewatering, excavation support and slope stabilisation measures.
Faults	The published geology indicates the presence of	High	Increase in permeability in the underlying rock mass	Ground investigation to determine strength of

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
	sub-vertical normal faults in the bedrock strata, generally trending north to south and north-west to south-east across the Site. These will be masked by overlying superficial deposits. Faults bring bedrock strata of differing lithology and geotechnical properties into juxtaposition causing abrupt lateral changes in ground conditions. Fault zones may contain fractured and brecciated strata, and / or clay gouge. The faults are of great geological age and are not actively moving.		creating a pathway for groundwater flow; or a decrease in permeability across the faulted strata leading to mounding of groundwater. Deterioration of rock strength due to presence of faulted rock. Potential for differential settlement over the fault trace resulting from differing strata properties.	bearing strata and groundwater regime; assessment of associated risks and design strategy developed accordingly.
High groundwater table (including waterlogged ground)	The historical records indicate a shallow groundwater level, between 0.9m and 2.80 m bgl. Two groundwater tables are implied, namely a perched table in the Made Ground and a permanent table in the superficial deposits.	Medium	High groundwater levels lead to the flooding of excavations, which can make excavations for foundations or services unstable unless levels and associated pressures are controlled by dewatering. It can also impact the stability of strata below the	Groundwater monitoring as part of a ground investigation to confirm the site-specific groundwater levels. If a high groundwater table is confirmed, suitable dewatering and/or temporary support may be required.

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
			groundwater table and cause uplift.	
Aggressive ground (e.g. expansive slags, weathering of sulphides to sulphates)	Made Ground containing PFA Presence of brackish groundwater	Medium	Concrete attack on the structure's foundations.	Concrete foundations and service ducts are likely to need to be designed against natural chemical attack from aggressive ground conditions.
Existing sub-structures (e.g. foundations, basements, and adjacent sub-structures)	Given the former site use as a power station, it is likely that buried structures will be encountered.	Medium	Delays in ground investigation and construction works due to obstructions.	Ground investigation would reduce the uncertainty in knowledge of the ground conditions. A strategy to establish the risk of below-ground obstructions would be developed and mitigation measures implemented which could include bulk excavation to remove them, or excavation to a pre-determined cut-off depth to allow new structures to be founded on consistent strata. risk.

Hazard	Source	Hazard Potential	Engineering Implication	Mitigation Methods
Utilities	Utilities are likely to be present within and adjacent to the Proposed Development (all areas).	High	Design to avoid utilities or reroute utilities as necessary. Potential to strike utilities as part of design or construction works. Need to adjust line and level of the pipe routes involving deeper excavation and potentially additional ground support.	Consultation with utility companies in advance of intrusive works and regarding diversions. PAS128 Category Type B and A surveys to be completed, GPR and Utility Trench investigations. Use of Ground Penetrating Radar and CAT scan before breaking ground to avoid utility strikes for ground investigation. Review once utility surveys are complete for final route design. Develop a design strategy to cater for existing utilities which may involve diversions in advance of main construction, and of designs which bridge over utilities if they cannot be diverted.
UXO	Zetica Risk Map indicates that the UXO risk is low for the site, however, detailed desk study was recommended by Zetica.	Medium	Low potential to encounter UXO during ground investigation and earthworks, however, this is subject to detailed assessment.	It is recommended that a detailed desk study is carried out.

11. Conclusions

11.1.1 The assessment presented in this Appendix has identified that:

- the Site is currently occupied by the existing Connah's Quay Power Station (in the central and eastern parts of the Main Development Area area) and land associated with former Connah's Quay coal-fired Power Station (now demolished) and agricultural land. The existing Connah's Quay Power Station is gas-fired. Extensive historical landfilling has been identified on-site and off-site in close proximity (to the west);
- based on a review of current and historical mapping and identification a number of potential sources (the aforementioned coal-fired power station and associated infrastructure and the former landfills being potentially the most significant), encountering ground contamination is considered to be likely~~;~~ particularly across the Main Development Area, Electrical Connection Corridor, C&IEA, and Alternative Access to Main Development Area and Access to C&IEA;
- a number of existing reports have been reviewed; these covered a period between the early 1960s and 2022; in general, during the ground investigations, the investigated areas were found to be underlain by fill of the estuarine sands or PFA, and natural strata comprising alluvial sands underlain by carboniferous strata.
- most of the existing site investigation reports pre-date the current Power Station construction and, in some cases, coincide with the site reprofiling/reclamation works and hence the ground conditions and groundwater regimes documented will not be representative of current day conditions; the majority of the ground investigations carried out at the Site were geotechnically focused; reports undertaken since the turn of the century document various groundwater monitoring and associated risk assessments undertaken but nothing specific is available within the last ten years.
- ground gas sources exist from the underlying Made Ground (depending on its thickness and composition) and from historical landfills. The geological stratigraphic sequence beneath the Site is likely to comprise Made Ground, overlying superficial deposits. These superficial deposits are composed of Alluvium, Glaciofluvial Deposits, Till and Tidal Flat Deposits. The Site may also be subject to risk from mine gas associated with mine shafts located 65 m south of the Main Development Area, however, detailed assessment is required;
- the bedrock is predominantly Lower Pennine Coal Measures, which lies at approximate depths varying from 9.70 to 20.20 m bgl;
- the superficial deposits are mostly classified as a Secondary Undifferentiated and as Secondary A aquifer. The solid geology is classified as a Secondary A aquifer. Groundwater is likely to be present near surface (1 m to 3 m bgl) located mostly within the superficial deposits. This may affect temporary and permanent works;
- there are numerous surface watercourses on-site and within the study area. The Dee River and Estuary is located on the northern-most extent

of the Site and adjacent to the north. This is a designated Ramsar Site, SSSI, SPA and SAC. Connah's Quay Power Station Nature Reserve, non-statutory site, has also been identified in proximity to the Site; and

- based on the initial CSM and preliminary risk assessment, the Site represents a generally low to moderate risk in terms of the risk to the human health of current and future on-site occupants in the absence of mitigation and a low to moderate/low risk to the human health of off-site users. A moderate/low risk for contamination to impact the groundwater within the superficial deposits and bedrock, and a moderate/low to moderate potential risk to surface water receptors has been assigned. The risk to the Dee River and Estuary statutory ecological designations is considered to be low to moderate/low based on the sensitivity of this designated ecological site. The risks to the non-statutory Nature Reserve site are considered to be low.

11.1.2 The risk ratings are mainly related to the potential for contamination to be present at elevated concentrations which may pose harm to receptors because of the type of land use (heavy industrial and landfilling) undertaken at the Site. However, generally the likelihood of the linkage being realised was mainly assigned as low rating. The overall risk rating of low to moderate is not uncommon for industrial and brownfield sites.

11.1.3 Due to the high risk of past coal mining workings within the Order limits and in its close proximity, a Detailed Mine Gas Risk Assessment is required in accordance with CL:AIRE 2021.

11.1.4 Key identified geotechnical hazards that should be considered in future design of the Proposed Development include; the presence of historical coal mine workings, faults, the presence of potentially deep Made Ground, lateral changes in the ground conditions, potential for compressible ground stability hazards, the potential to create running sands resulting from excavation in water bearing strata; high groundwater table, below-ground obstructions, and existing utilities. The depth of the Tidal Flat Deposits and potential presence of compressible deposits might require ground improvement and/or a deeper piled foundation solution.

11.1.5 It is recommended that a UXO detailed desk study is carried out.

11.1.6 Purchase and review of Mining Remediation Authority Consultant's Mining Report and records/mine plans should be undertaken to determine location and depth of underground workings (if present) and mine shafts/ adits. Depending on the findings from the Mining Remediation Authority report, ground investigation should target areas located in proximity to the known mine features and to monitor for mine gas. A Coal Mining Risk Assessment should be produced.

11.1.7 The contaminative and geotechnical risks can be mitigated by further assessment through intrusive ground investigation and risk assessment at the detailed design stage, and if necessary, the inclusion of routine construction measures for example, ground gas protection measures within buildings, dewatering of excavations, drainage, support to excavations, removal of below ground obstructions and the design of foundations appropriate to the conditions.

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Annex A: Figures

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LEGEND

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FIGURE TITLE

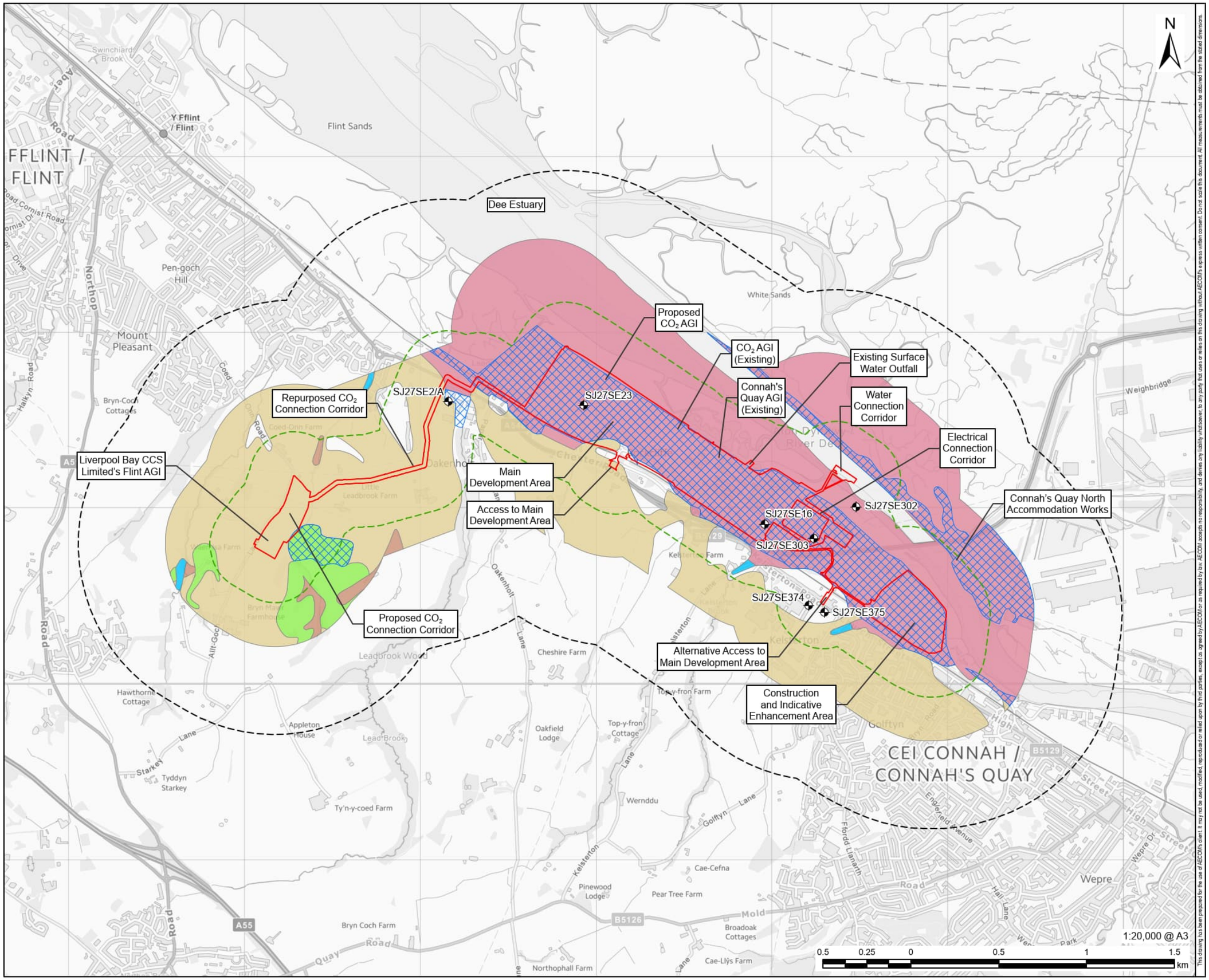
Planning Outline

FIGURE NUMBER

Figure 14A-1

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- British Geological Survey Historical Borehole
- Made Ground (Undivided) - Artificial Deposit

BGS Superficial Geology 50k:

- Alluvium - Clay, Silt, Sand and Gravel
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Head - Clay, Silt, Sand and Gravel
- Tidal Flat Deposits - Clay, Silt and Sand
- Till, Devensian - Diamicton

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Superficial Geology and Historical Boreholes

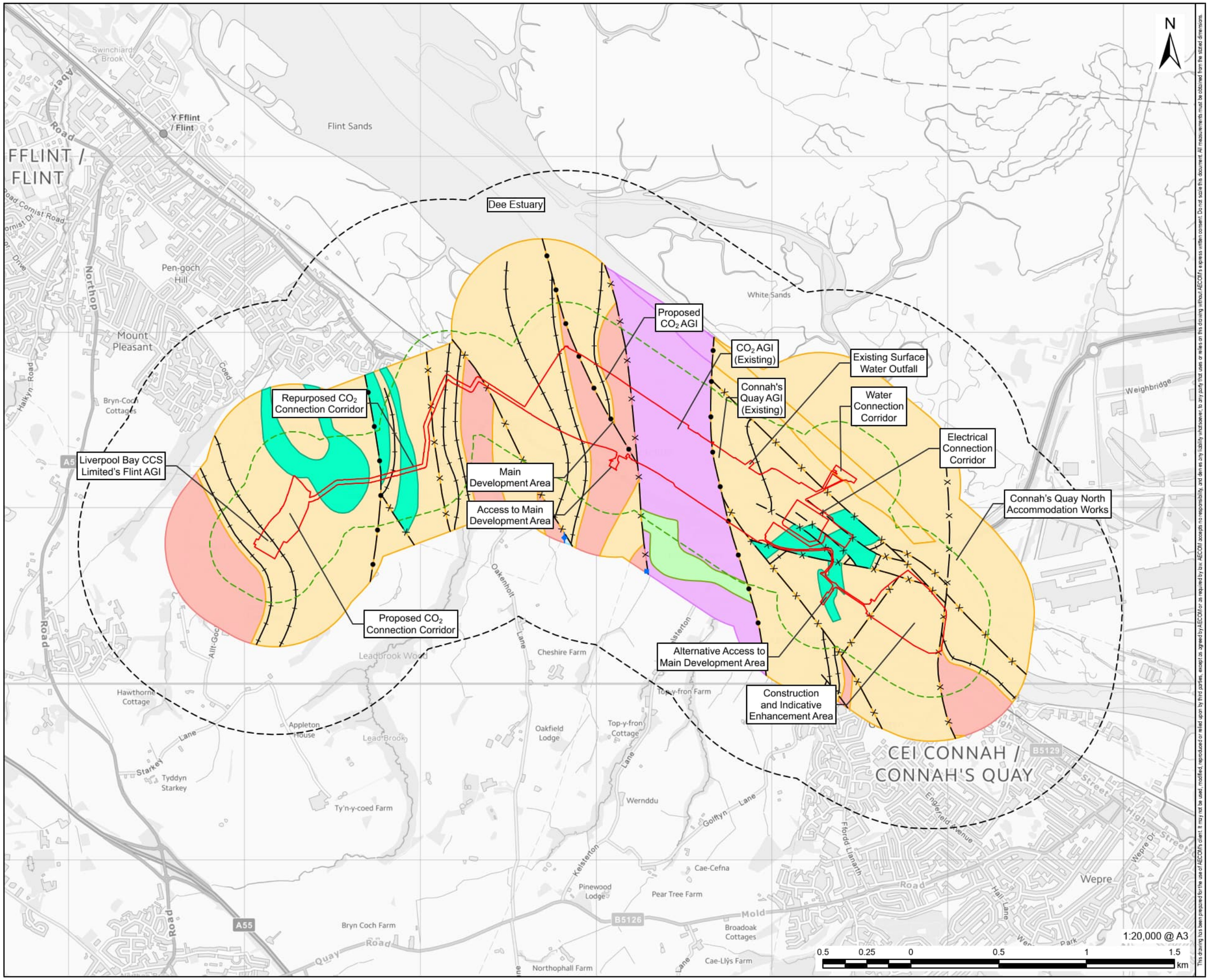
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Figure 14A-2

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Bedrock Faults and Linear Features:

- Coal seam, inferred
- Fault, inferred
- Fault, inferred, displacement unknown
- Marine band

BGS Bedrock Geology 50k:

- Bowland Shale Formation - Mudstone
- Etruria Formation - Mudstone, Sandstone and Conglomerate
- Etruria Formation - Sandstone
- Gwespyr Sandstone - Sandstone and [Subequal/Subordinate] Argillaceous Rocks, Interbedded
- Pennine Lower Coal Measures Formation - Mudstone, Siltstone and Sandstone
- Pennine Lower Coal Measures Formation - Sandstone

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FIGURE TITLE

Bedrock Geology and Morphological Features

FIGURE NUMBER

Figure 14A-3

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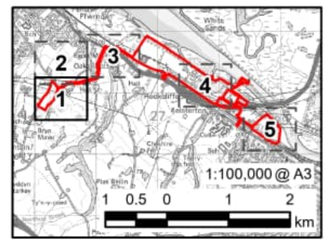
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FIGURE TITLE

Site Walkover Photographs Indicative Locations
Sheet 1 of 5

FIGURE NUMBER

Figure 14A-4

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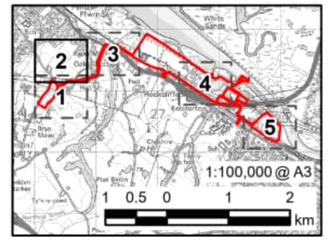
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FIGURE TITLE

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FIGURE NUMBER

Figure 14A-4

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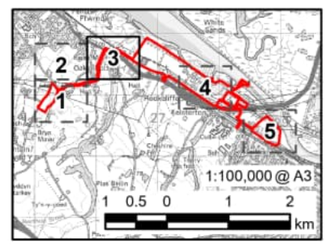
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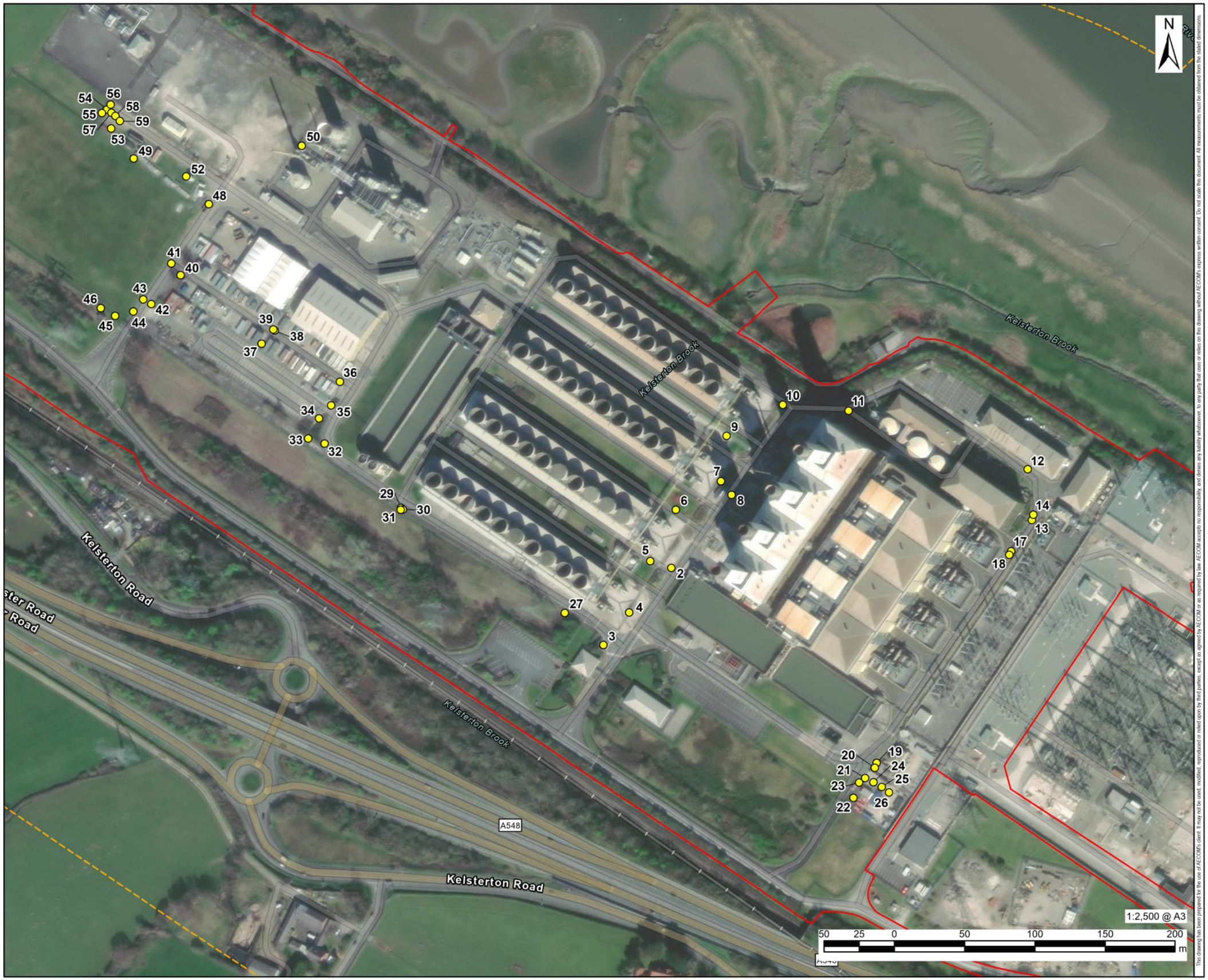
Site Walkover Photographs Indicative Locations
Sheet 3 of 5

FIGURE NUMBER

Figure 14A-4

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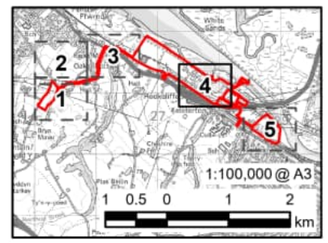
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Sheet 4 of 5

FIGURE NUMBER

Figure 14A-4

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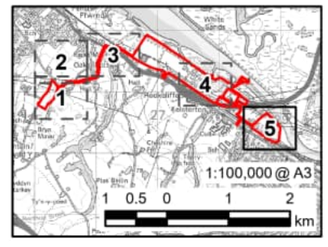
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- 250m Study Area (From the Construction and Operation Area)
- Photograph Indicative Location



NOTES

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ISSUE PURPOSE

Environmental Statement

DATE

July 2025

PROJECT NUMBER

60717119

FIGURE TITLE

Site Walkover Photographs Indicative Locations
Sheet 5 of 5

FIGURE NUMBER

Figure 14A-4

Annex B: Site Walkover Photolog

AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 1	Date: 25/03/24

Direction Photo Taken:

North

Description

View of exposed services in northern end of Main Development Area.



Photo No. 2	Date: 25/03/24

Direction Photo Taken:

North West

Description

View of the connections to the cooling tower runs from the turbines (south east). Note large services passing underground.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 3	Date: 25/03/24

Direction Photo Taken:

North East

Description

View of southern side of turbine buildings and reservoir.



Photo No. 4	Date: 25/03/24

Direction Photo Taken:

North

Description

View along main entrance road and footpath from the main security building between the turbine buildings and cooling towers. Tank farm noted in centre distance.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 5	Date: 25/03/24

Direction Photo Taken:

North West

Description

View between cooling tower runs including service buildings and the gravel embankments to the raised cooling tower buildings.



Photo No. 6	Date: 25/03/24

Direction Photo Taken:

North West

Description

View between two central cooling tower runs including below ground services and the gravel embankments to the raised cooling tower buildings.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 7	Date: 25/03/24

Direction Photo Taken:

North West

Description

View of northern cooling tower run.



Photo No. 8	Date: 25/03/24

Direction Photo Taken:

East

Description

View from main access road towards the tank farm on the western side of the turbine builidngs. Tanks sit on a steel and concrete bund.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 9	Date: 25/03/24

Direction Photo Taken:

North West

Description

View between the two northern cooling tower runs showing gravel service trench.



Photo No. 10	Date: 25/03/24

Direction Photo Taken:

North East

Description

View of north west corner of the turbine building and large tanks on the northern side of the building.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 11	Date: 25/03/24

Direction Photo Taken:

South West

Description

View of tanks on the northern side of the turbine buildings including control room offices on left of photo.



Photo No. 12	Date: 25/03/24

Direction Photo Taken:

East

Description

View towards National Grid Transformer station with offices on left of photo, and depot buildings front left.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 13	Date: 25/03/24

Direction Photo Taken:

East

Description

View of transformers from the power station side leading to the National Grid transformers beyond.



Photo No. 14	Date: 25/03/24

Direction Photo Taken:

North East

Description

view towards depots on north eastern end of the power station site.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 15	Date: 25/03/24

Direction Photo Taken:

West

Description

View of sub-station at north eastern end of the control room building.



Photo No. 16	Date: 25/03/24

Direction Photo Taken:

South West

Description

View along eastern internal road showing colour coded services.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 17	Date: 25/03/24

Direction Photo Taken:

South East

Description

View of adjacent National Grid transformer station.



Photo No. 18	Date: 25/03/24

Direction Photo Taken:

South West

Description

View of connections from the turbine building on the west side of the road to the National Grid station to the east.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 19	Date: 25/03/24

Direction Photo Taken:

North East

Description

View from the south eastern end of the power station site towards the raised reservoir and access steps beyond which is the turbine building.



Photo No. 20	Date: 25/03/24

Direction Photo Taken:

West

Description

Along the southern internal road with the reservoir on the right of the photo and grass on the left, which appeared to be having pipelines installed at the time of the photo.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 21	Date: 25/03/24

Direction Photo Taken:

East

Description

View into the storage yard in the south east end of the power station site, showing various hazardous material storage units.



Photo No. 22	Date: 25/03/24

Direction Photo Taken:

South

Description

View of the south eastern access gate.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 23	Date: 25/03/24

Direction Photo Taken:

West

Description

View along southern internal road with cooling towers at rear of photo.



Photo No. 24	Date: 25/03/24

Direction Photo Taken:

North

Description

View of oil container storage in the south eastern storage yard.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 25	Date: 25/03/24

Direction Photo Taken:

North

Description

View of oil storage in the south eastern storage yard.



Photo No. 26	Date: 25/03/24

Direction Photo Taken:

North

Description

View into the south eastern storage yard extended area including scaffold equipment and barriers.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 27	Date: 25/03/24

Direction Photo Taken:

South West

Description

View of the internal road south of the cooling towers looking south of the site showing the mature grasses, bushes and trees.



Photo No. 28	Date: 25/03/24

Direction Photo Taken:

North

Description

View of potential leak in the southern cooling tower structure.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 29	Date: 25/03/24

Direction Photo Taken:

North West

Description

View towards the side wall of the reservoirs west of the cooling towers.



Photo No. 30	Date: 25/03/24

Direction Photo Taken:

North

Description

View of the western end of the cooling towers and western internal road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 31	Date: 25/03/24

Direction Photo Taken:

East

Description

View east along the southern internal road and of the southern cooling tower run.



Photo No. 32	Date: 25/03/24

Direction Photo Taken:

North East

Description

View of the western side of the western reservoir showing the grass embankment.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 33	Date: 25/03/24

Direction Photo Taken:

West

Description

View along southern boundary from the western end of the power station site showing a gravel area and contractor parking.



Photo No. 34	Date: 25/03/24

Direction Photo Taken:

North East

Description

View of the western side of the western reservoir showing the grass embankment and cooling towers beyond.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 35	Date: 25/03/24

Direction Photo Taken:

West

Description

View across contractor parking area west of the main power station showing an underground tank.



Photo No. 36	Date: 25/03/24

Direction Photo Taken:

West

Description

View through the contractor cabin site.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 37	Date: 25/03/24

Direction Photo Taken:

South

Description

View of a contractor cabin spot showing car park access and individual power terminals.



Photo No. 38	Date: 25/03/24

Direction Photo Taken:

North

Description

View from the contractor area to a small storage yard at rear of the warehouses.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 39	Date: 25/03/24

Direction Photo Taken:

North West

Description

View of canvass and metal warehouse structures north west of the contractor cabins.



Photo No. 40	Date: 25/03/24

Direction Photo Taken:

South

Description

View of cess pit No.4 at the western end of the contractor cabin area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 41	Date: 25/03/24

Direction Photo Taken:

North West

Description

View across field adjacent to the power station showing the field to be slightly raised c.1m and broadly level.



Photo No. 42	Date: 25/03/24

Direction Photo Taken:

South West

Description

View of pylon and sub-station south of the field west of the power station.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 43	Date: 25/03/24

Direction Photo Taken:

North

Description

View of ground conditions within the field west of the power station.



Photo No. 44	Date: 25/03/24

Direction Photo Taken:

South

Description

View of concrete cover and other services in the south eastern end of the field west of the power station.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 45	Date: 25/03/24

Direction Photo Taken:

West

Description

View along the southern boundary of the field west of the power station.



Photo No. 46	Date: 25/03/24

Direction Photo Taken:

North West

Description

View across the field west of the power station towards the western fields.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 47	Date: 25/03/24

Direction Photo Taken:

South

Description

View of overground service access points in the south eastern end of the field west of the power station.



Photo No. 48	Date: 25/03/24

Direction Photo Taken:

North West

Description

View across north eastern end of the field towards a storage yard and metal warehouse buildings at the north western end of the power station site.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 49	Date: 25/03/24

Direction Photo Taken:

West

Description

View along field access road towards gates leading to the further western fields. Also noting laydown area in north end of the field west of the power station.



Photo No. 50	Date: 25/03/24

Direction Photo Taken:

North

Description

View of the facilities in the north western end of the power station adjacent to the storage yard.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 51	Date: 25/03/24

Direction Photo Taken:

North

Description

View of the storage yard to the north west of the power station Main Development Area.



Photo No. 52	Date: 25/03/24

Direction Photo Taken:

East

Description

View showing the northern edge of the field west of the power station had had plastic grass matting installed as part of it being used as a laydown area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 53	Date: 25/03/24

Direction Photo Taken:

South

Description

View of stockpiled soils and mixed gravels and materials in the north end of the field west of the power station, likely stripped from the laydown area.



Photo No. 54	Date: 25/03/24

Direction Photo Taken:

West

Description

View from western gates towards further western fields which could not be accessed at the time of the walkover.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 55	Date: 25/03/24

Direction Photo Taken:

South West

Description

View across the western end of the field west of the power station showing metal fencing and security camera towers.



Photo No. 56	Date: 25/03/24

Direction Photo Taken:

North

Description

View of power station facilities in the north western most extent of the current development.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 57	Date: 25/03/24

Direction Photo Taken:

East

Description

View east along the field access road.



Photo No. 58	Date: 25/03/24

Direction Photo Taken:

South

Description

View south across the field west of the power station.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 59	Date: 25/03/24

Direction Photo Taken:

South east

Description

View across the field west of the power station showing standing water and laydown area, with southern access point in the far distance.



Photo No. 60	Date: 25/03/24

Direction Photo Taken:

West

Description

View of the park area to south of the Indicative Enhancement Area, south of the rail line.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 61	Date: 25/03/24

Direction Photo Taken:

East

Description

View from the east of the Indicative Enhancement Area across the River Dee.



Photo No. 62	Date: 25/03/24

Direction Photo Taken:

North West

Description

View towards the Indicative Enhancement Area across the estuary of the River Dee.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 63	Date: 25/03/24

Direction Photo Taken:

North

Description

View along the access tracks on the south eastern side of the Indicative Enhancement Area.



Photo No. 64	Date: 25/03/24

Direction Photo Taken:

West

Description

View across the Indicative Enhancement Area from the access track entrance in the south eastern end.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 65	Date: 25/03/24

Direction Photo Taken:

North

Description

View along the inside of the eastern boundary of the Indicative Enhancement Area showing the track towards remaining foundations of buildings at the far north east end of the area.



Photo No. 66	Date: 25/03/24

Direction Photo Taken:

North

Description

View of the foundation of former buildings in the north eastern end of the Indicative Enhancement Area - a location of previously identified asbestos.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 67	Date: 25/03/24

Direction Photo Taken:

North

Description

View of evidence of littering and fires in the north eastern end of the Indicative Enhancement Area.



Photo No. 68	Date: 25/03/24

Direction Photo Taken:

North West

Description

View across the former foundations in the north eastern end of the Indicative Enhancement Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 69	Date: 25/03/24

Direction Photo Taken:

North East

Description

View of a now fenced former entrance to the Indicative Enhancement Area in the north eastern end of the site.



Photo No. 70	Date: 25/03/24

Direction Photo Taken:

North

Description

View of oil sheen on standing waters in the north eastern end of the Indicative Enhancement Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 71	Date: 25/03/24

Direction Photo Taken:

South

Description

View south across the former cooling tower basin in the Indicative Enhancement Area.



Photo No. 72	Date: 25/03/24

Direction Photo Taken:

West

Description

View west across the cooling tower basin in the Indicative Enhancement Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 73	Date: 25/03/24

Direction Photo Taken:

South

Description

Close up view of the cooling tower basin in the Indicative Enhancement Area showing the concrete construction and drop in topography.



Photo No. 74	Date: 25/03/24

Direction Photo Taken:

West

Description

Close up view of the cooling tower basin in the Indicative Enhancement Area showing the concrete construction and drop in topography.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 75	Date: 25/03/24

Direction Photo Taken:

West

Description

View across the fenced area in the north western end of the Indicative Enhancement Area showing mossed and overgrown concrete hard standing.



Photo No. 76	Date: 25/03/24

Direction Photo Taken:

North

Description

View of the fence separating the fenced area in the north western end of the Indicative Enhancement Area from the rest of the area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 77	Date: 25/03/24

Direction Photo Taken:

West

Description

View of the fence separating the fenced area in the north western end of the Indicative Enhancement Area from the rest of the area with power station in far distance.



Photo No. 78	Date: 25/03/24

Direction Photo Taken:

South

Description

View across the River Dee from north of the Indicative Enhancement Area showing soft clay soils underfoot.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 79	Date: 25/03/24

Direction Photo Taken:

West

Description

View west along the River Dee estuary with the Indicative Enhancement Area northern boundary on the left of the photo showing soft clay soils underfoot, and rock and gravel embankment.



Photo No. 80	Date: 25/03/24

Direction Photo Taken:

East

Description

View east along the River Dee estuary with the Indicative Enhancement Area northern boundary on the right of the photo showing soft clay soils underfoot.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 81	Date: 25/03/24

Direction Photo Taken:

West

Description

View under pylons to the north west of the Indicative Enhancement Area showing the western end of the rock embankment.



Photo No. 82	Date: 25/03/24

Direction Photo Taken:

East

Description

View along the rock embankment / breakwater separating the Indicative Enhancement Area from the estuary.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 83	Date: 25/03/24

Direction Photo Taken:

West

Description

View along the River Dee estuary towards the power station and Flinshire Bridge.



Photo No. 84	Date: 25/03/24

Direction Photo Taken:

South east

Description

View from the top of the rock embankment into the Indicative Enhancement Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 85	Date: 25/03/24

Direction Photo Taken:

South

Description

View from the top of the rock embankment into the Indicative Enhancement Area showing raised concrete foundations and fencing.



Photo No. 86	Date: 25/03/24

Direction Photo Taken:

South

Description

View across the southern field of the Proposed CO_2 Connection Corridor and fields beyond.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 87	Date: 25/03/24

Direction Photo Taken:

South East

Description

View across the southern field of the Proposed CO_2 Connection Corridor showing the topographic low with reeds.



Photo No. 88	Date: 25/03/24

Direction Photo Taken:

North

Description

View along the western boundary of the Proposed CO_2 Connection Corridor showing Allt-Goch Lane and the access gate to both fields.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 89	Date: 25/03/24

Direction Photo Taken:

North East

Description

View from the access gate across the north field of the Proposed CO_2 Connection Corridor.



Photo No. 90	Date: 25/03/24

Direction Photo Taken:

South East

Description

View from the access gate of the Proposed CO_2 Connection Corridor site showing the hedge and fence divide between the two fields.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper UK Limited	Site Location: Connah's Quay Combined Cycle Gas Turbine (CCGT) with Carbon Capture Plant (CCP)	Project No. 60717119

Photo No. 91	Date: 25/03/24

Direction Photo Taken:

South East

Description

View of secondary gate from north field to the south field of the Proposed CO_2 Connection Corridor.



Photo No. 92	Date: 25/03/24

Direction Photo Taken:

South

Description

View from the access gate along the western boundary of the Proposed CO_2 Connection Corridor showing the deep drainage ditch between the road and fields.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 93	Date: 24/07/24

Direction Photo Taken:

North

Description

View towards Essity paper mill from south-eastern gate on Old Paper Mill Lane.



Photo No. 94	Date: 24/07/24

Direction Photo Taken:

West

Description

Piles and skips of sand and gravel at Dependable Concrete depot, located south of the Main Development Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 95	Date: 24/07/24

Direction Photo Taken:

North

Description

Large tank at Dependable Concrete depot, located south of the Main Development Area

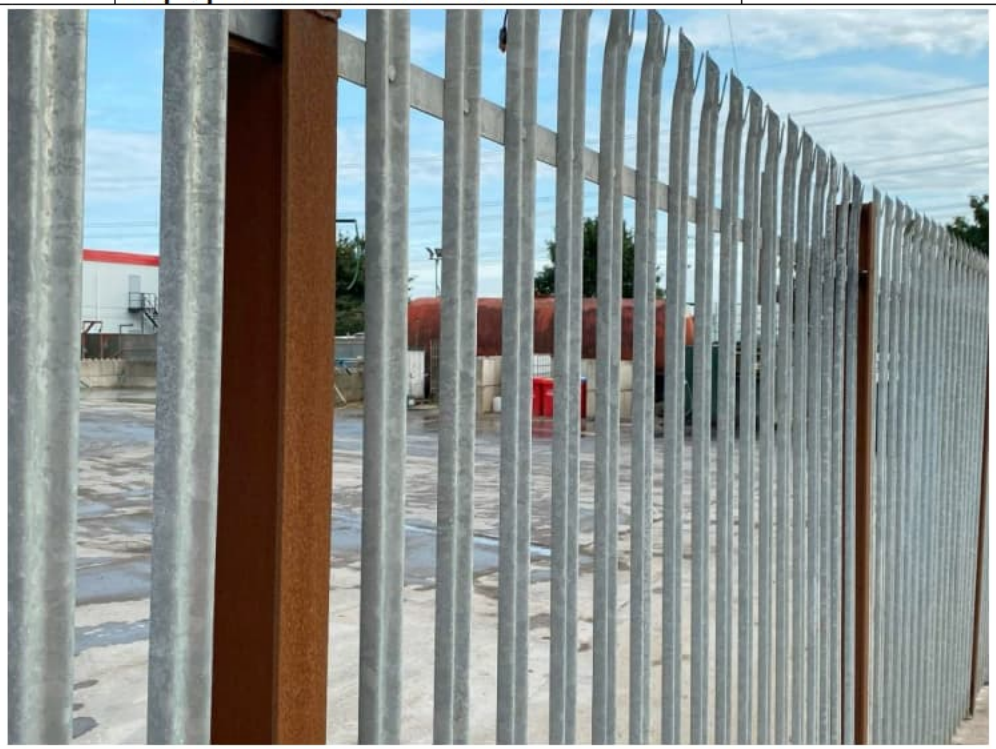


Photo No. 96	Date: 24/07/24

Direction Photo Taken:

North

Description

Sand overflowing from skip at Dependable Concrete depot onto grass verge along Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 97	Date: 24/07/24

Direction Photo Taken:

East

Description

Sand overflowing from skip at Dependable Concrete depot onto grass verge along Chester Road.



Photo No. 98	Date: 24/07/24

Direction Photo Taken:

North

Description

View of Bryn Thomas Cranes industrial premises, located west of the Main Development Area.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 99	Date: 24/07/24

Direction Photo Taken:

Southwest

Description

View of northern boundary of Essity paper mill from Chester Road.



Photo No. 100	Date: 24/07/24

Direction Photo Taken:

North

Description

Caravan site located west of Main Development Area, along Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 101	Date: 24/07/24

Direction Photo Taken:

Southwest

Description

View of northern boundary of Essity paper mill from Chester Road.



Photo No. 102	Date: 24/07/24

Direction Photo Taken:

North

Description

View of Express Logistics courier depot, located west of Main Development Area along Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 103	Date: 24/07/24

Direction Photo Taken:

South

Description

View of northern entrance to Essity paper mill from Chester Road.



Photo No. 104	Date: 24/07/24

Direction Photo Taken:

Northeast

Description

View of land parcel forming part of Repurposed CO_2 Connection Corridor, viewed from Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 105	Date: 24/07/24

Direction Photo Taken:

North

Description

View of land parcel forming part of Repurposed CO_2 Connection Corridor, viewed from Chester Road.



Photo No. 106	Date: 24/07/24

Direction Photo Taken:

East

Description

View of western boundary of Express Logistics courier depot, located on land pacel forming part of Repurposed CO_2 Connection Corridor, viewed from Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 107	Date: 24/07/24

Direction Photo Taken:

North

Description

View of land parcel forming part of Repurposed CO_2 Connection Corridor, viewed from Chester Road.



Photo No. 108	Date: 24/07/24

Direction Photo Taken:

North

Description

Farm equipment on western corner of land parcel forming part of Repurposed CO_2 Connection Corridor, located west of Main Development Area and viewed from Chester Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 109	Date: 24/07/24

Direction Photo Taken:

North

Description

View of residential properties at site of historical gravel pit and waste site.



Photo No. 110	Date: 24/07/24

Direction Photo Taken:

East

Description

View of land parcel at the northern part of Leadbrook Drive.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 111	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

View of field from Leadbrook Drive.



Photo No. 112	Date: 24/07/24

Direction Photo Taken:

Southwest

Description

View of eastern entrance to paper mill from Paper Mill Lane.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 113	Date: 24/07/24

Direction Photo Taken:

East

Description

Woodland mound at site of historical quarry and quarry farm, located to the far west of Leadbrook Drive.



Photo No. 114	Date: 24/07/24

Direction Photo Taken:

West

Description

Empty and odourless barrel at woodland mound.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 115	Date: 24/07/24

Direction Photo Taken:

East

Description

View of old brick shed and a field further back from Leadbrook Drive.



Photo No. 116	Date: 24/07/24

Direction Photo Taken:

South

Description

View south along Leadbrook Drive towards site of farm and slurry bed.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 117	Date: 24/07/24

Direction Photo Taken:

South

Description

View of brook flowing across Repurposed CO_2 Connection Corridor.



Photo No. 118	Date: 24/07/24

Direction Photo Taken:

North

Description

Culverted section of the brook.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 119	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

Ponding with sheen in a field located north of Repurposed CO_2 Connection Corridor.



Photo No. 120	Date: 24/07/24

Direction Photo Taken:

East

Description

Drainage channel along the field located north of Repurposed CO_2 Connection Corridor.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 121	Date: 24/07/24

Direction Photo Taken:

North

Description

View of field looking west from the private lane to the north of Little Leadbrook Farm.



Photo No. 122	Date: 24/07/24

Direction Photo Taken:

East

Description

View of field looking east from the private lane to the north of Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 123	Date: 24/07/24

Direction Photo Taken:

South

Description

View of field towards Little Leadbrook Farm.



Photo No. 124	Date: 24/07/24

Direction Photo Taken:

East

Description

View of field north-east of the Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 125	Date: 24/07/24

Direction Photo Taken:

North

Description

View of field forming part of the Repurposed CO_2 Connection Corridor looking north.



Photo No. 126	Date: 24/07/24

Direction Photo Taken:

Northwest

Description

View of field north-east of the Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 127	Date: 24/07/24

Direction Photo Taken:

South

Description

View of field located south of the Little Leadbrook Farm.



Photo No. 128	Date: 24/07/24

Direction Photo Taken:

West

Description

Eastern view of the Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 129	Date: 24/07/24

Direction Photo Taken:

Northeast

Description

Pond in a field, located south of Little Leadbrook Farm.



Photo No. 130	Date: 24/07/24

Direction Photo Taken:

West

Description

Field view, south of Little Leadbrook Farm towards sand pit with ponds.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 131	Date: 24/07/24

Direction Photo Taken:

Southwest

Description

View of field north of Little Leadbrook Farm.



Photo No. 132	Date: 24/07/24

Direction Photo Taken:

Southwest

Description

View towards southwest from Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 133	Date: 24/07/24

Direction Photo Taken:

West

Description

View of field forming part of Repurposed CO_2 Connection Corridor.



Photo No. 134	Date: 24/07/24

Direction Photo Taken:

Northeast

Description

Southwestern boundary of land forming part of Repurposed CO_2 Connection Corridor.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 135	Date: 24/07/24

Direction Photo Taken:

North

Description

Allt-Goch Brook flowing between boundary of Repurposed CO_2 Connection Corridor and Proposed CO_2 Connection Corridor.



Photo No. 136	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

Track running from Allt-goch Lane toward Little Leadbrook Farm.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 137	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

Pond at farm at intersection of Allt-goch Lane and Coed Omn Road, north of north-western corner of Proposed CO_2 Connection Corridor.



Photo No. 138	Date: 24/07/24

Direction Photo Taken:

North

Description

Farm on Coed Omn Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 139	Date: 24/07/24

Direction Photo Taken:

North

Description

Farm on Coed Omn Road.



Photo No. 140	Date: 24/07/24

Direction Photo Taken:

North

Description

Silage bales and muck pile at site of historic heap / pit / gravel pit to north of Coed Omn Road.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 141	Date: 24/07/24

Direction Photo Taken:

South

Description

View of field forming northern part of Proposed CO_2 Connection Corridor from northwestern corner.



Photo No. 142	Date: 24/07/24

Direction Photo Taken:

East

Description

Fly-tipped material at entrance to field forming southern part of Proposed CO_2 Connection Corridor from Allt-goch Lane.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 143	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

Fly-tipped material at entrance to field forming southern part of Proposed CO_2 Connection Corridor from Allt-goch Lane.



Photo No. 144	Date: 24/07/24

Direction Photo Taken:

Southeast

Description

View of field forming part of Proposed CO_2 Connection Corridor, from western boundary.



AECOM

PHOTOGRAPHIC LOG

Client Name: Uniper	Site Location: Connah's Quay CCGT Repurposed CO2 Connection Corridor	Project No. 60717119

Photo No. 145	Date: 24/07/24

Direction Photo Taken:

West

Description

Patch of thistles and nettles on soft and wet ground within field east of the southern part of Proposed CO_2 Connection Corridor.



Photo No. 146	Date: 24/07/24

Direction Photo Taken:

East

Description

Woodland strip along eastern boundary of Proposed CO_2 Connection Corridor.



Annex C: UXO Pre-Desk Study Assessment

Pre-Desk Study Assessment	
Site:	Connah's Quay Power Station, Wales
Client:	AECOM
Date:	15th March 2024
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including munitions factories and metal works. ■ Royal Flying Corps (RFC) Sealand. ■ Anti-Aircraft (AA) defences.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	During WWII, 1No. rifle range was established on the Site.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including chemical and metal works. ■ Royal Air Force (RAF) Sealand. ■ Military barracks, camps, depots, and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	2No. The nearest was located approximately 3.4km north of the Site.

WWII Bombing	During WWII the Site was located on the boundary between the Municipal Borough (MB) of Flint and the Urban District (UD) of Connah's Quay, close to the Rural District (RD) of Hawarden and the RD of Holywell. Flint MB officially recorded 53No. High Explosive (HE) bombs with a bombing density of 7.8 bombs per 405 hectares (ha). Connah's Quay UD officially recorded 4No. HE bombs with a bombing density of 0.9 bombs per 405ha. Hawarden RD officially recorded 174No. HE bombs with a bombing density of 5.5 bombs per 405ha. Holywell RD officially recorded 112No. HE bombs with a bombing density of 1.9 bombs per 405ha. Readily available records have been found to indicate that several HE bombs fell on the Site.
Post-WWII Military Activity on or Affecting the Site	After WWII, the rifle range was removed from the Site.
Recommendation	It is recommended that a detailed desk study is commissioned to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the Site.
Further information	For information about Zetica's detailed UXO desk studies and other UXO services, please visit our website: www.zeticauxo.com. Details and downloadable resources covering the most common sources of UXO hazard affecting sites in the UK can be found **here**. If you have any further queries, please don't hesitate to get in contact with us at uxo@zetica.com or 01993 886 682.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.

Annex D: Groundsure report for the Hardstanding Expansion at Connah's Quay North Jetty

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Connahs Quay Change 6

Order Details

Date: 20/01/2026

Your ref: UK1754074

Our Ref: GS-JUI-7S7-FCJ-QGW

Site Details

Location: 329114 370656

Area: 0.21 ha

Authority: Sir y Fflint - Flintshire County Council ↗



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Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	1	0	3	18	-
16 >	1.2 >	Historical tanks >	0	4	0	9	-
17 >	1.3 >	Historical energy features >	0	0	3	1	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	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
19 >	2.1 >	Historical industrial land uses >	2	0	4	21	-
21 >	2.2 >	Historical tanks >	0	7	0	18	-
22 >	2.3 >	Historical energy features >	0	0	7	1	-
22	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	3.1 >	Active or recent landfill >	0	0	1	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
25 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	3	0	-
25 >	3.4 >	Historical landfill (EA/NRW records) >	1	0	1	1	-
26	3.5	Historical waste sites	0	0	0	0	-
26 >	3.6 >	Licensed waste sites >	0	4	8	1	-
30	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	4.1 >	Recent industrial land uses >	0	2	6	-	-
32 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	0	1	0	-	-
32	4.3	Current or recent petrol stations	0	0	0	0	-
33 >	4.4 >	Electricity cables >	0	0	2	4	-
33	4.5	Gas pipelines	0	0	0	0	-

34	4.6	Sites determined as Contaminated Land	0	0	0	0	-
34 >	4.7 >	Control of Major Accident Hazards (COMAH) >	1	0	0	0	-
34	4.8	Regulated explosive sites	0	0	0	0	-
34	4.9	Hazardous substance storage/usage	0	0	0	0	-
35	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
35 >	4.11 >	Licensed industrial activities (Part A(1)) >	0	0	0	2	-
35	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
36	4.13	Radioactive Substance Authorisations	0	0	0	0	-
36 >	4.14 >	Licensed Discharges to controlled waters >	0	0	1	1	-
36	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.16	Pollutant release to public sewer	0	0	0	0	-
37 >	4.17 >	List 1 Dangerous Substances >	0	0	1	0	-
37	4.18	List 2 Dangerous Substances	0	0	0	0	-
37 >	4.19 >	Pollution Incidents (EA/NRW) >	0	0	1	0	-
38	4.20	Pollution inventory substances	0	0	0	0	-
38	4.21	Pollution inventory waste transfers	0	0	0	0	-
38	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
41 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
43 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
44	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45	5.6	Groundwater abstractions	0	0	0	0	0
46 >	5.7 >	Surface water abstractions >	0	0	1	0	2
47	5.8	Potable abstractions	0	0	0	0	0
47	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m

48 >	6.1 >	Water Network (OS MasterMap) >	0	0	5	-	-
49 >	6.2 >	Surface water features >	0	0	2	-	-
49 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
50 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
50 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
51 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
52	7.2	Historical Flood Events	0	0	0	-	-
52 >	7.3 >	Flood Defences >	0	1	2	-	-
52 >	7.4 >	Areas Benefiting from Flood Defences >	0	0	2	-	-
53	7.5	Flood Storage Areas	0	0	0	-	-
54 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
55 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
56 >	8.1 >	Surface water flooding >	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
58 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
59 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	1	3	3	7
60 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	1	3	2
66 >	10.3 >	Special Areas of Conservation (SAC) >	0	1	1	0	3
68 >	10.4 >	Special Protection Areas (SPA) >	0	0	1	3	2
70	10.5	National Nature Reserves (NNR)	0	0	0	0	0
71 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
71 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	10
72	10.8	Biosphere Reserves	0	0	0	0	0
72	10.9	Forest Parks	0	0	0	0	0
72	10.10	Marine Conservation Zones	0	0	0	0	0
72	10.11	Green Belt	0	0	0	0	0

72	10.12	Proposed Ramsar sites	0	0	0	0	0
73	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
73	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
73	10.15	Nitrate Sensitive Areas	0	0	0	0	0
73 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	3
75 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
76	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
77	11.1	World Heritage Sites	0	0	0	-	-
77	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
77	11.3	National Parks	0	0	0	-	-
77	11.4	Listed Buildings	0	0	0	-	-
78	11.5	Conservation Areas	0	0	0	-	-
78	11.6	Scheduled Ancient Monuments	0	0	0	-	-
78	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	12.1 >	Agricultural Land Classification >	Grade 5 (within 250m)				
80	12.2	Open Access Land	0	0	0	-	-
80	12.3	Tree Felling Licences	0	0	0	-	-
80	12.4	Environmental Stewardship Schemes	0	0	0	-	-
81	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
82	13.1	Priority Habitat Inventory	0	0	0	-	-
82	13.2	Habitat Networks	0	0	0	-	-
82	13.3	Open Mosaic Habitat	0	0	0	-	-
82	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
83 >	14.1 >	10k Availability >	Identified (within 500m)				
84	14.2	Artificial and made ground (10k)	0	0	0	0	-

85	14.3	Superficial geology (10k)	0	0	0	0	-
85	14.4	Landslip (10k)	0	0	0	0	-
86	14.5	Bedrock geology (10k)	0	0	0	0	-
86	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
87 >	15.1 >	50k Availability >	Identified (within 500m)				
88 >	15.2 >	Artificial and made ground (50k) >	1	0	1	0	-
89 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
90 >	15.4 >	Superficial geology (50k) >	1	0	0	1	-
91 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
91	15.6	Landslip (50k)	0	0	0	0	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92 >	15.8 >	Bedrock geology (50k) >	1	0	5	5	-
93 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	10	8	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	16.1 >	BGS Boreholes >	0	0	3	-	-
Page	Section	**Natural ground subsidence** >					
97 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
98 >	17.2 >	Running sands >	Moderate (within 50m)				
100 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
102 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
103 >	17.5 >	Landslides >	Very low (within 50m)				
104 >	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
106	18.1	BritPits	0	0	0	0	-
107 >	18.2 >	Surface ground workings >	0	0	2	-	-
107	18.3	Underground workings	0	0	0	0	0
107	18.4	Underground mining extents	0	0	0	0	-

107	18.5	Historical Mineral Planning Areas	0	0	0	0	-
108 >	18.6 >	Non-coal mining >	1	1	5	6	27
112	18.7	JPB mining areas	None (within 0m)				
113	18.8	The Coal Authority non-coal mining	0	0	0	0	-
113	18.9	Researched mining	0	0	0	0	-
113	18.10	Mining record office plans	0	0	0	0	-
113	18.11	BGS mine plans	0	0	0	0	-
114 >	18.12 >	Coal mining >	Identified (within 0m)				
114	18.13	Brine areas	None (within 0m)				
114	18.14	Gypsum areas	None (within 0m)				
114	18.15	Tin mining	None (within 0m)				
114	18.16	Clay mining	None (within 0m)				

Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
115	19.1	Natural cavities	0	0	0	0	-
115	19.2	Mining cavities	0	0	0	0	0
115	19.3	Reported recent incidents	0	0	0	0	-
115	19.4	Historical incidents	0	0	0	0	-

Page	Section	Radon >					
117 >	20.1 >	Radon >	Less than 1% (within 0m)				

Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
119 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	0	-	-	-
119	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
119	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
120	22.1	Underground railways (London)	0	0	0	-	-
120	22.2	Underground railways (Non-London)	0	0	0	-	-
121	22.3	Railway tunnels	0	0	0	-	-
121 >	22.4 >	Historical railway and tunnel features >	5	0	6	-	-
122	22.5	Royal Mail tunnels	0	0	0	-	-

122 >	22.6 >	Historical railways >	0	0	1	-	-
122	22.7	Railways	0	0	0	-	-
122	22.8	Crossrail 2	0	0	0	0	-
123	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 09/06/2023

Site Area: 0.21ha

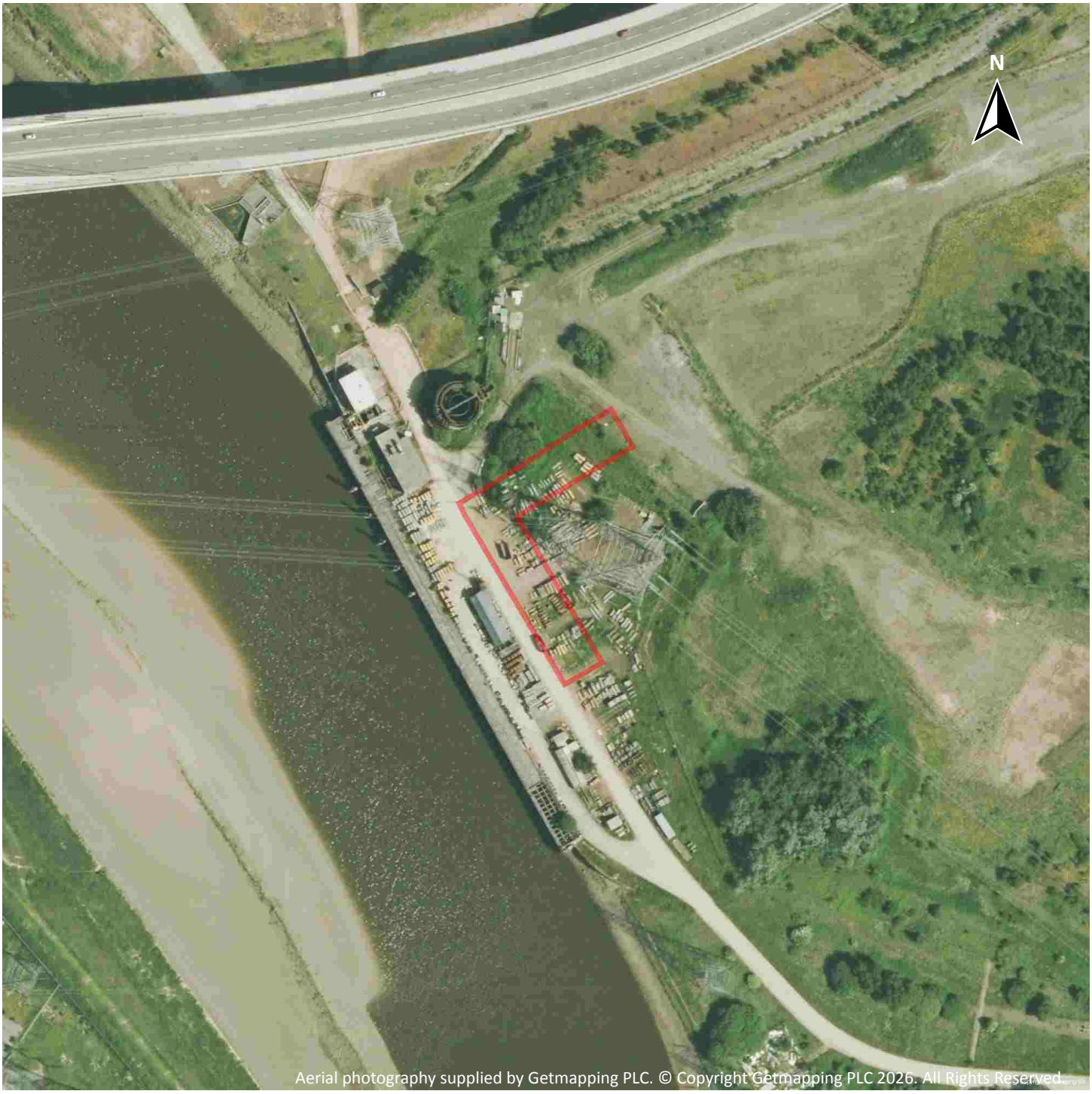
Recent site history - 2020 aerial photograph



Capture Date: 10/04/2020

Site Area: 0.21ha

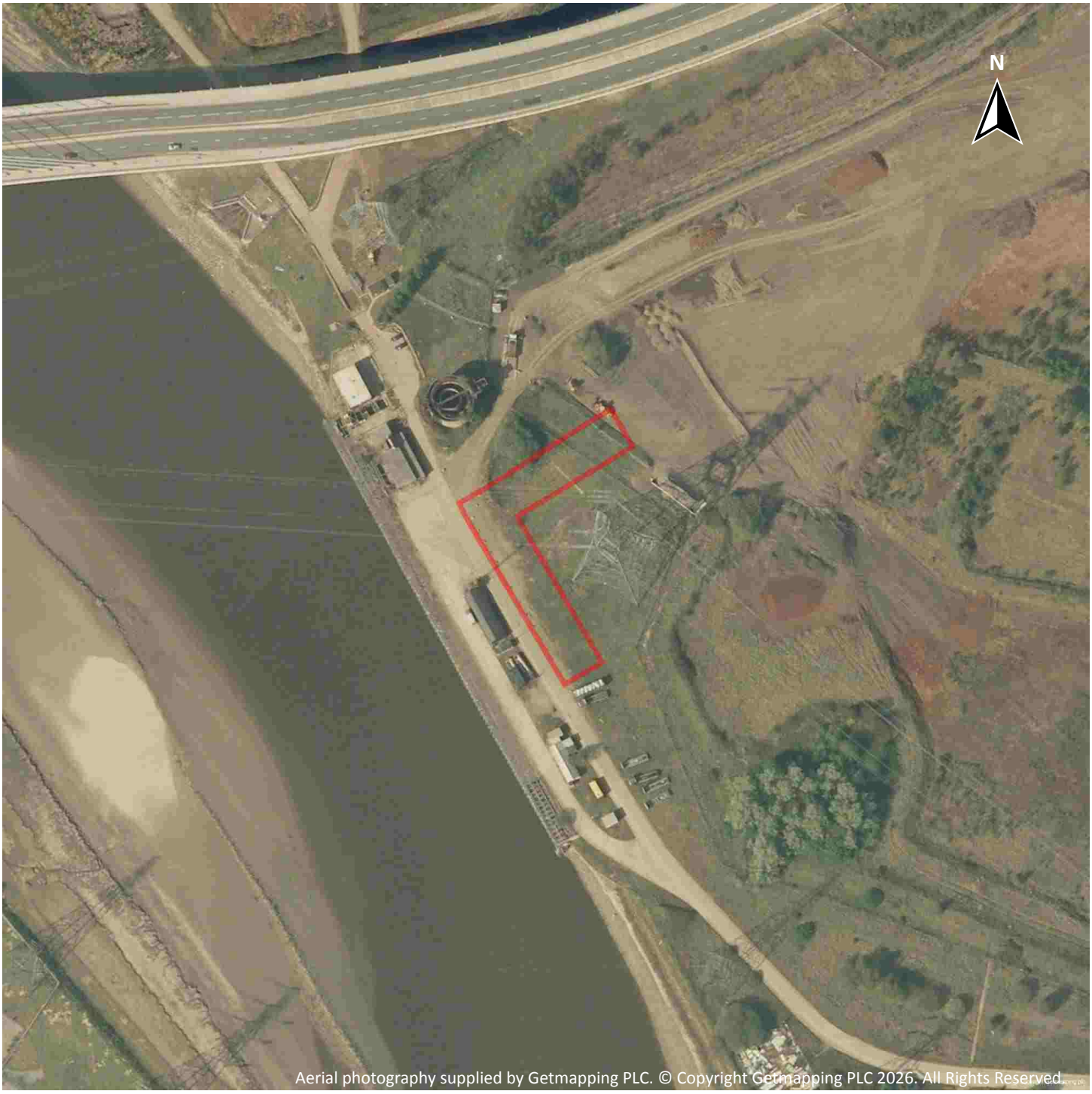
Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 0.21ha

Recent site history - 2009 aerial photograph



Capture Date: 20/04/2009

Site Area: 0.21ha

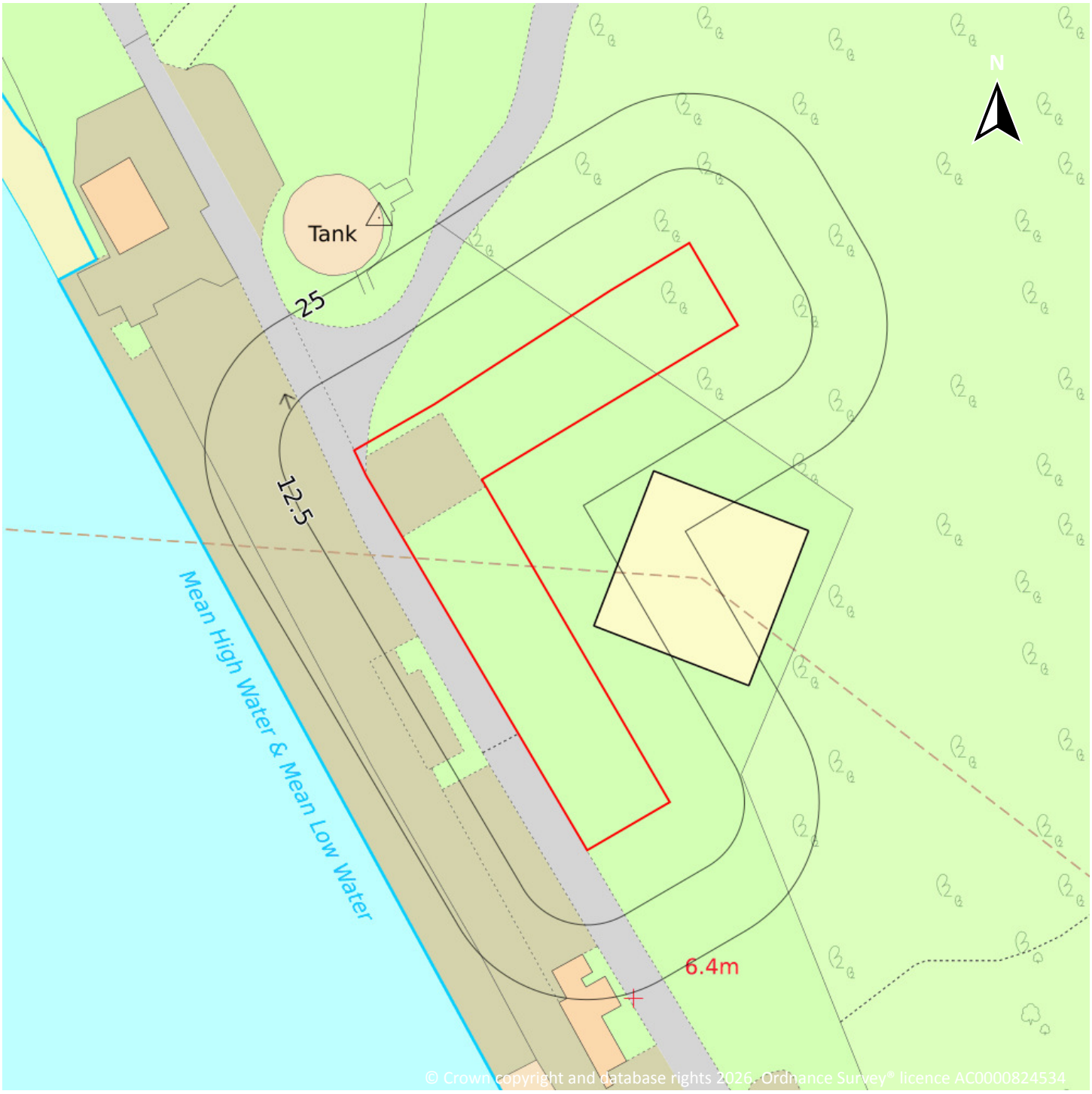
Recent site history - 2001 aerial photograph



Capture Date: 28/07/2001

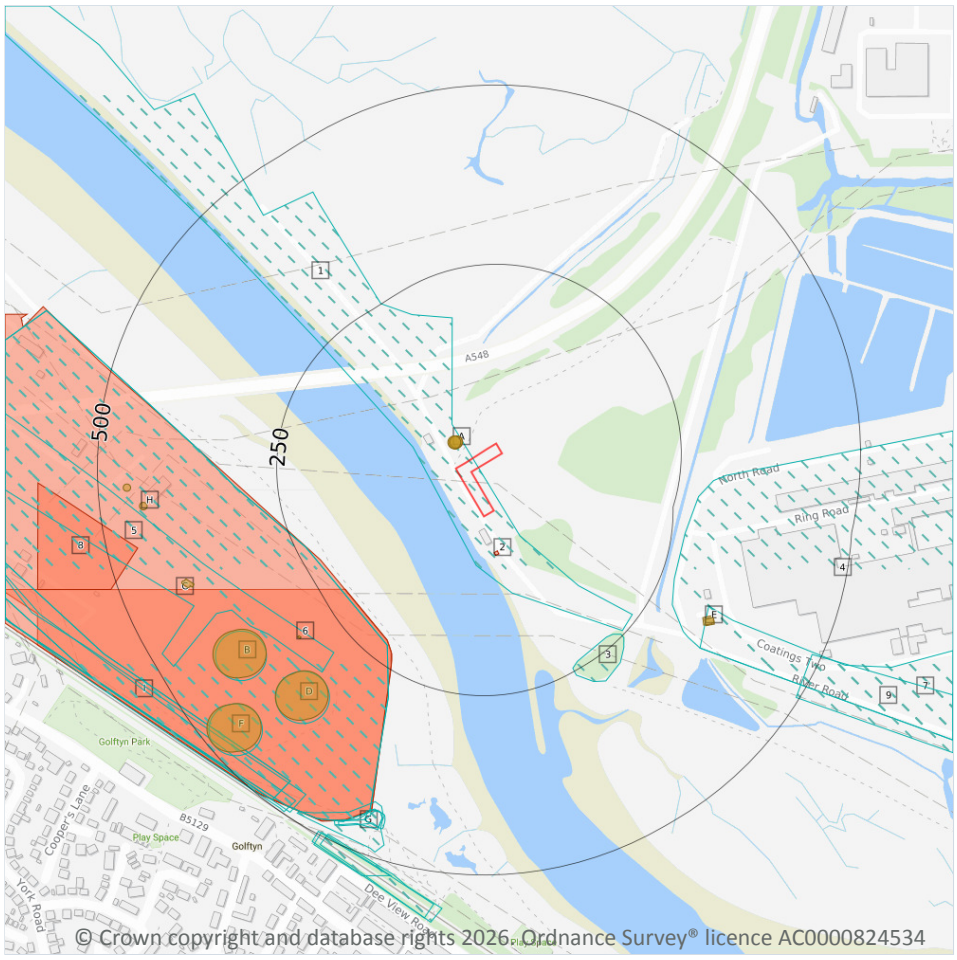
Site Area: 0.21ha

OS MasterMap site plan



Site Area: 0.21ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	22

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 15 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Railway Sidings**	**1969 - 1981**	**922671**

ID	Location	Land use	Dates present	Group ID
C	219m SW	Power Station	1981	806271
C	219m SW	Unspecified Works	1969	835489
3	236m SE	Unspecified Pit	1969 - 1981	965260
4	267m E	Unspecified Works	1981	859186
5	283m SW	Railway Sidings	1969 - 1981	1003508
D	320m SW	Unspecified Tank	1969	850331
7	328m SE	Railway Sidings	1981	879410
B	355m SW	Unspecified Tank	1969	850330
F	420m SW	Unspecified Tank	1969	850332
G	426m S	Unspecified Heap	1898	943048
G	436m S	Unspecified Heap	1938	969843
G	436m S	Unspecified Heap	1913	911051
G	437m S	Unspecified Heap	1954	861853
I	457m SW	Rifle Range	1938	953271
I	457m SW	Rifle Range	1898	997150
I	460m SW	Rifle Range	1913	979566
I	475m SW	Rifle Range	1954	951680
9	487m SE	Railway Sidings	1954 - 1992	882150
G	494m SW	Cuttings	1954	881215
G	495m SW	Cuttings	1913 - 1938	996959
G	496m SW	Cuttings	1869	914797

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	13

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 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 15 >**

ID	Location	Land use	Dates present	Group ID
A	23m NW	Unspecified Tank	1964	129550
A	23m NW	Unspecified Tank	1988 - 1997	128699
A	23m NW	Unspecified Tank	1978	129143
A	24m NW	Unspecified Tank	1982	146676
6	306m SW	Unspecified Tank	1979 - 1982	153421
D	320m SW	Unspecified Tank	1964 - 1978	141161
E	327m SE	Unspecified Tank	1988 - 1997	140150
E	331m SE	Tanks	1978 - 1982	137930
B	354m SW	Unspecified Tank	1964 - 1978	149964
C	399m SW	Tanks	1978 - 1982	132795
F	419m SW	Unspecified Tank	1964 - 1978	150486
H	434m W	Unspecified Tank	1978	117275
H	454m W	Unspecified Tank	1978	117272

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**4**

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 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 15 >**

ID	Location	Land use	Dates present	Group ID
2	52m S	Electricity Substation	1982 - 1997	83237
B	214m SW	Power Station	1979	86143
C	214m SW	Power Station	1982	71482
8	457m W	Power Station	1997	75850

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 un-grouped 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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey® / Groundsure.

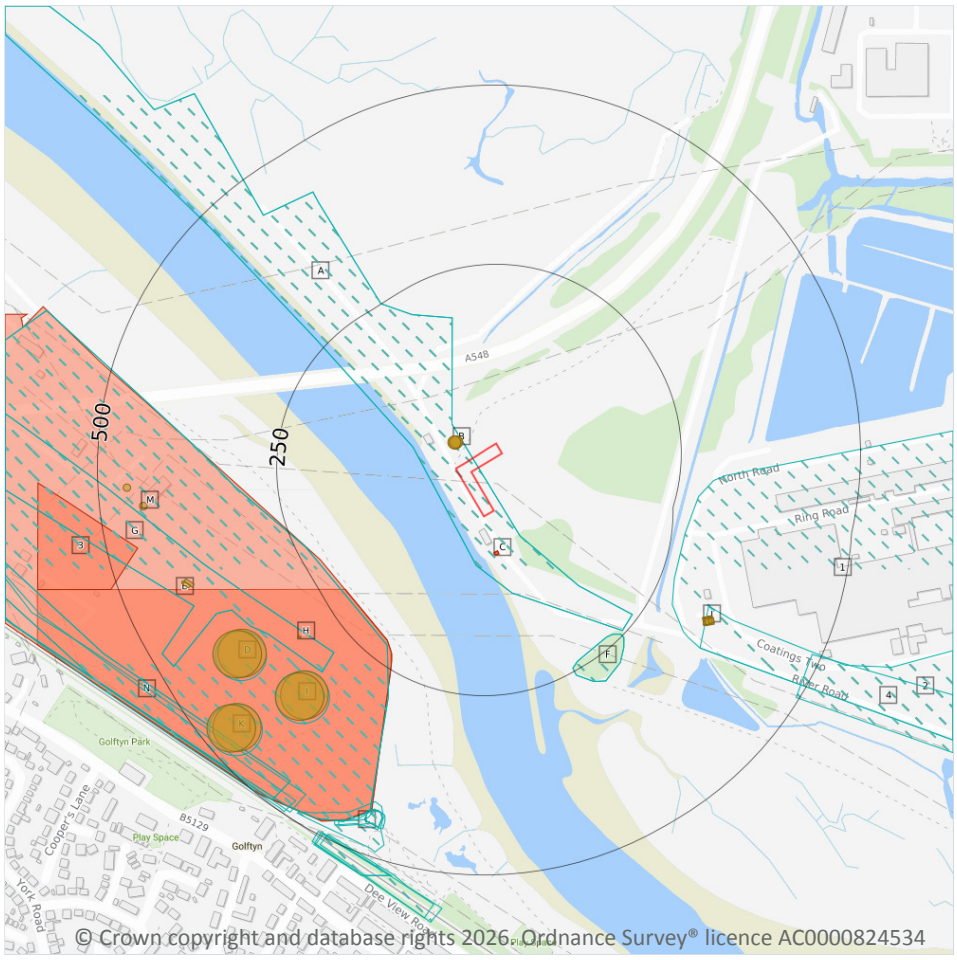
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	27

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 19 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Sidings**	**1981**	**922671**
A	**On site**	**Railway Sidings**	**1969**	**922671**
E	219m SW	Power Station	1981	806271

ID	Location	Land Use	Date	Group ID
E	219m SW	Unspecified Works	1969	835489
F	236m SE	Unspecified Pit	1981	965260
F	236m SE	Unspecified Pit	1969	965260
1	267m E	Unspecified Works	1981	859186
G	283m SW	Railway Sidings	1981	1003508
G	283m SW	Railway Sidings	1969	1003508
I	320m SW	Unspecified Tank	1969	850331
2	328m SE	Railway Sidings	1981	879410
D	355m SW	Unspecified Tank	1969	850330
K	420m SW	Unspecified Tank	1969	850332
L	426m S	Unspecified Heap	1898	943048
L	436m S	Unspecified Heap	1938	969843
L	436m S	Unspecified Heap	1913	911051
L	436m S	Unspecified Heap	1913	911051
L	437m S	Unspecified Heap	1954	861853
N	457m SW	Rifle Range	1938	953271
N	457m SW	Rifle Range	1898	997150
N	460m SW	Rifle Range	1913	979566
N	475m SW	Rifle Range	1954	951680
4	487m SE	Railway Sidings	1954	882150
L	494m SW	Cuttings	1954	881215
L	495m SW	Cuttings	1913	996959
L	496m SW	Cuttings	1869	914797
L	496m SW	Cuttings	1938	996959

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	25

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 19 >**

ID	Location	Land Use	Date	Group ID
B	23m NW	Unspecified Tank	1964	129550
B	23m NW	Unspecified Tank	1997	128699
B	23m NW	Unspecified Tank	1993	128699
B	23m NW	Unspecified Tank	1993	128699
B	23m NW	Unspecified Tank	1978	129143
B	23m NW	Unspecified Tank	1988	128699
B	24m NW	Unspecified Tank	1982	146676
H	306m SW	Unspecified Tank	1982	153421
H	306m SW	Unspecified Tank	1979	153421
I	320m SW	Unspecified Tank	1964	141161
I	326m SW	Unspecified Tank	1978	141161
J	327m SE	Unspecified Tank	1997	140150
J	327m SE	Unspecified Tank	1993	140150
J	327m SE	Unspecified Tank	1993	140150
J	329m SE	Unspecified Tank	1988	140150
J	331m SE	Tanks	1982	137930
J	335m SE	Tanks	1978	137930
D	354m SW	Unspecified Tank	1964	149964
D	360m SW	Unspecified Tank	1978	149964
E	399m SW	Tanks	1982	132795
E	405m SW	Tanks	1978	132795
K	419m SW	Unspecified Tank	1964	150486
K	426m SW	Unspecified Tank	1978	150486

ID	Location	Land Use	Date	Group ID
M	434m W	Unspecified Tank	1978	117275
M	454m W	Unspecified Tank	1978	117272

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**8**

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 19 >**

ID	Location	Land Use	Date	Group ID
C	52m S	Electricity Substation	1982	83237
C	52m S	Electricity Substation	1988	83237
C	52m S	Electricity Substation	1997	83237
C	52m S	Electricity Substation	1993	83237
C	52m S	Electricity Substation	1993	83237
D	214m SW	Power Station	1979	86143
E	214m SW	Power Station	1982	71482
3	457m W	Power Station	1997	75850

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.

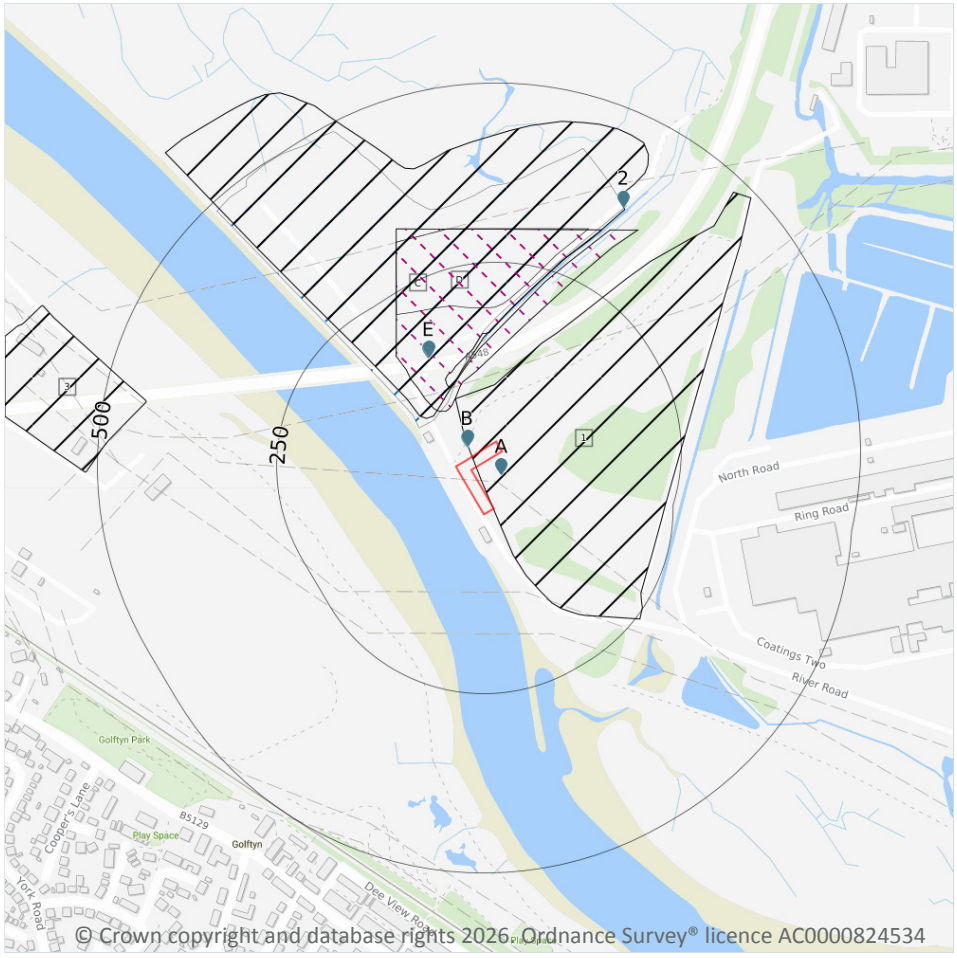
2.5 Historical garages

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



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Site Outline

Search buffers in metres (m)

Active or recent landfill

Historical landfill (EA/NRW)

Historical landfill (LA/OS)

Licensed waste sites

3.1 Active or recent landfill

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 24 >**

ID	Location	Details	
C	72m NW	Operator: Tata Steel U K Ltd Site Address: Works Jetty To Works, Broken Bank Pump House, Shotton Works, Deeside, Flintshire, CH5 2NH	WML Number: 37015 EPR Reference: BRI002 Landfill type: A7 : Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EAEPR\EA/EPR/BP3294FK/A001

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	3

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

Features are displayed on the Waste and landfill map on **page 24 >**

ID	Location	Site address	Source	Data type
D	73m NW	Refuse Tip	1993 mapping	Polygon
D	73m NW	Refuse Tip	1993 mapping	Polygon
D	187m N	Refuse Tip	1997 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	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 24 >**

ID	Location	Details		
1	**On site**	**Site Address: Shotton Works, Deeside, Flintshire** **Licence Holder Address: -**	**Waste Licence: Yes** **Site Reference: 6835/0044, 171/92, NOW-438-L** **Waste Type: Industrial, Household** **Environmental Permitting Regulations (Waste) Reference: WW1/L/BRI003** **Licence Issue: 21/01/1993** **Licence Surrender: 20/03/2006**	**Operator: -** **Licence Holder: Corus U K Limited** **First Recorded -** **Last Recorded: 31/12/1995**
C	77m NW	Site Address: Shotton Works - Area On North West Side of Interconnecting Road/ Shotton Works Number 1, Deeside, Flintshire Licence Holder Address: -	Waste Licence: Yes Site Reference: 13, 44, NOW-422-L, 155/89, 6835/0044 Waste Type: Inert, Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 16/10/1985 Licence Surrender: -	Operator: - Licence Holder: British Steel Plc First Recorded 31/12/1945 Last Recorded: 31/12/1995
3	441m W	Site Address: Connah's Quay Power Station No.1, Ash Lagoon, Clwyd Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Central Electricity Generating Board Licence Holder: - First Recorded 31/12/1954 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	**13**

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

Features are displayed on the Waste and landfill map on **page 24 >**

ID	Location	Details		
A	18m SE	Site Name: British Steel No 2 Landfill Site Address: Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: Corus Colors, Shotton Works, Deeside, Flintshire, CH5 2NH	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI003 EPR reference: - Operator: Corus U K Limited Waste Management licence No: 37049 Annual Tonnage: 0	Issue Date: 21/01/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	18m SE	Site Name: British Steel No 2 Landfill Site Address: Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: Corus Colors, Shotton Works, Deeside, Flintshire, CH5 2NH	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BRI003 EPR reference: - Operator: Corus U K Limited Waste Management licence No: 37049 Annual Tonnage: 0	Issue Date: 21/01/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	25m NW	Site Name: British Steel No 2 Landfill Site Address: Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI003 EPR reference: EA/EPR/UP3394FU/S002 Operator: Corus U K Ltd Waste Management licence No: 37049 Annual Tonnage: 1308	Issue Date: 21/01/1993 Effective Date: - Modified: - Surrendered Date: 20/03/2006 Expiry Date: - Cancelled Date: - Status: Surrendered
B	25m NW	Site Name: British Steel No 2 Landfill Site Address: Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI003 EPR reference: UP3394FU/S002 Operator: Corus U K Ltd Waste Management licence No: 37049 Annual Tonnage: 1308	Issue Date: 21/01/1993 Effective Date: - Modified: - Surrendered Date: 2.00603e+016 Expiry Date: 0 Cancelled Date: 0 Status: Surrendered

ID	Location	Details		
E	158m NW	Site Name: - Site Address: British Steel No1 Landfill, Works Jetty To Works, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3294FK EPR reference: - Operator: Tata Steel U K Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: 02/12/1996 Modified: - Surrendered Date: - Expiry Date: 31/03/2015 Cancelled Date: - Status: Expired
E	158m NW	Site Name: - Site Address: British Steel No1 Landfill, Works Jetty To Works, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: - Environmental Permitting Regulations (Waste) Licence Number: BP3294FK EPR reference: - Operator: Tata Steel U K Ltd Waste Management licence No: - Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: 02/12/1996 Modified: - Surrendered Date: - Expiry Date: 31/03/2015 Cancelled Date: - Status: Expired
E	158m NW	Site Name: British Steel No1 Landfill Site Address: Works Jetty To Works, Broken Bank Pump House, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI002 EPR reference: BP3294FK/A001 Operator: Corus U K Ltd Waste Management licence No: 37015 Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
E	158m NW	Site Name: British Steel No1 Landfill Site Address: Works Jetty To Works, Broken Bank Pump House, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI002 EPR reference: EA/EPR/BP3294FK/A001 Operator: Tata Steel U K Ltd Waste Management licence No: 37015 Annual Tonnage: 74999.99	Issue Date: 02/12/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

ID	Location	Details		
E	158m NW	Site Name: - Site Address: British Steel No1 Landfill, Works Jetty To Works, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3294FK EPR reference: - Operator: - Waste Management licence No: 37015 Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: 02/12/1996 Modified: - Surrendered Date: - Expiry Date: 31/03/2015 Cancelled Date: - Status: Expired
E	158m NW	Site Name: - Site Address: British Steel No1 Landfill, Works Jetty To Works, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3294FK EPR reference: - Operator: Tata Steel U K Ltd Waste Management licence No: 0 Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: 02/12/1996 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
E	158m NW	Site Name: - Site Address: British Steel No1 Landfill, Works Jetty To Works, Shotton Works, Flintshire, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BP3294FK EPR reference: - Operator: Tata Steel U K Ltd Waste Management licence No: 37015 Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: 02/12/1996 Modified: - Surrendered Date: - Expiry Date: 31/03/2015 Cancelled Date: - Status: Expired
E	159m NW	Site Name: British Steel No1 Landfill Site Address: Works Jetty To Works, Broken Bank Pump House, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI002 EPR reference: BP3294FK/A001 Operator: Tata Steel U K Ltd Waste Management licence No: 37015 Annual Tonnage: 75000	Issue Date: 02/12/1996 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: To PPC

ID	Location	Details		
2	382m NE	Site Name: British Steel No1 Landfill Site Address: Works Jetty To Works, Broken Bank Pump House, Shotton Works, Deeside, Flintshire, CH5 2NH Correspondence Address: Corus Colors, Shotton Works, Deeside, Flintshire, CH5 2NH	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI002 EPR reference: - Operator: Corus U K Limited Waste Management licence No: 37015 Annual Tonnage: 0	Issue Date: 02/12/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

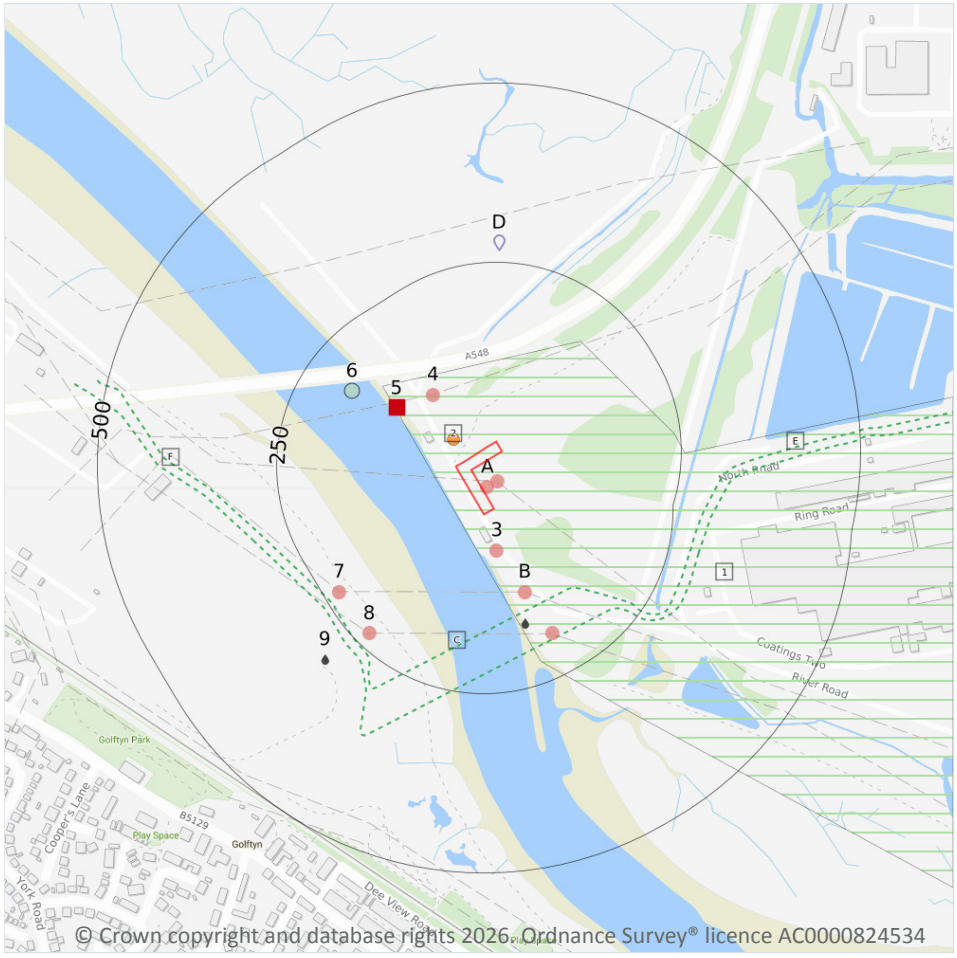
3.7 Waste exemptions

Records within 500m	**0**

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.

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

NGD current or recent tanks

Electricity cables

Control of Major Accident Hazards

Part A(1) industrial activities

Licensed Discharges to controlled waters

List 1 Dangerous Substances

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Company	Address	Activity	Category
A	7m NE	Mast (Telecommunication)	Clwyd, CH5	Telecommunications Features	Infrastructure and Facilities
A	24m NE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
3	53m S	Electricity Sub Station	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
4	102m NW	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
B	122m SE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
B	191m SE	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
7	229m SW	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities
8	231m SW	Pylon	Clwyd, CH5	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	**1**

Current or recent tanks identified from the Ordnance Survey® NGD.

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Tank description	Activity	Date first identified
2	26m NW	Open Storage Tank	Commercial Activity: Distribution Or Storage	08/02/2001

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	6

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Cable Set	Cable Route	Details	
C	146m SE	CABLE SECT 02	CONNAHS QUAY - FLINTSHIRE BRIDGE 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
C	198m SE	CABLE SECT 02	CONNAHS QUAY - FLINTSHIRE BRIDGE 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
E	280m E	CABLE SECT 03	CONNAHS QUAY - FLINTSHIRE BRIDGE 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
F	290m W	CABLE SECT 01	CONNAHS QUAY - FLINTSHIRE BRIDGE 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
E	292m E	CABLE SECT 03	CONNAHS QUAY - FLINTSHIRE BRIDGE 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
F	301m W	CABLE SECT 01	CONNAHS QUAY - FLINTSHIRE BRIDGE 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	1

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 31 >**

ID	Location	Company	Address	Operational status	Tier
1	**On site**	**Tata Steel UK Limited**	**Tata Steel UK Limited, Shotton Works, Shotton Works, Deeside, Flintshire, CH5 2NH**	**Current COMAH Site**	**COMAH Lower Tier Operator**

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	0

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.

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

4.11 Licensed industrial activities (Part A(1))

Records within 500m	2

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 31 >**

ID	Location	Details	
D	277m N	Operator: Tata Steel UK Limited Installation Name: Shotton Works Landfill Site No 1 Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN ANY DAY, OR WITH A TOTAL CAPACITY OF MORE THAN 25,000 TONNES, BUT EXCLUDING DISPOSALS IN A LANDFILL TAKING ONLY INERT WASTE. Permit Number: GP3030BE Original Permit Number: -	EPR Reference: - Issue Date: 21/02/2025 Effective Date: 21/02/2025 Last date noted as effective: 07/01/2026 Status: Effective
D	277m N	Operator: TATA STEEL UK LIMITED Installation Name: SHOTTON WORKS LANDFILL SITE NO 1 Process: THE DISPOSAL OF WASTE IN A LANDFILL RECEIVING MORE THAN 10 TONNES OF WASTE IN AN... Permit Number: GP3030BE Original Permit Number: NP3930WZ	EPR Reference: - Issue Date: 01/12/2016 Effective Date: 01/12/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE

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

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

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.14 Licensed Discharges to controlled waters

Records within 500m	2

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 31 >**

ID	Location	Address	Details	
B	163m S	BRITISHSTEELCOOLINGTOWERTESTRI, BRITISHSTEELCOOLINGTOWERTEST, COOLINGTOWERTESTRIGSHOTTON, SHOTTONWORKS	Effluent Type: UNSPECIFIED Permit Number: CG0329801 Permit Version: 1 Receiving Water: RIVER DEE	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 01/06/1992 Effective Date: 01/06/1992 Revocation Date: 31/12/1992
9	300m SW	CONNAHSQUAYPOWERSTATION	Effluent Type: SALINE WATER - COASTAL SITES - NON BATHING/SHELLFISH Permit Number: CM0011301 Permit Version: 1 Receiving Water: DEE	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/12/1960 Effective Date: 09/12/1960 Revocation Date: 09/12/1993

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

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.16 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.17 List 1 Dangerous Substances

Records within 500m	1

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 31 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
5	116m NW	Deeside Power Development Co Ltd	Not Active	-	Mercury (other), Cadmium, Chloroform

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

4.18 List 2 Dangerous Substances

Records within 500m	0

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

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

4.19 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 31 >**

ID	Location	Details	
6	179m NW	Incident Date: 08/11/2016 Incident Identification: 1606737 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -

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

4.20 Pollution inventory substances

Records within 500m	0

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

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

4.21 Pollution inventory waste transfers

Records within 500m	0

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

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

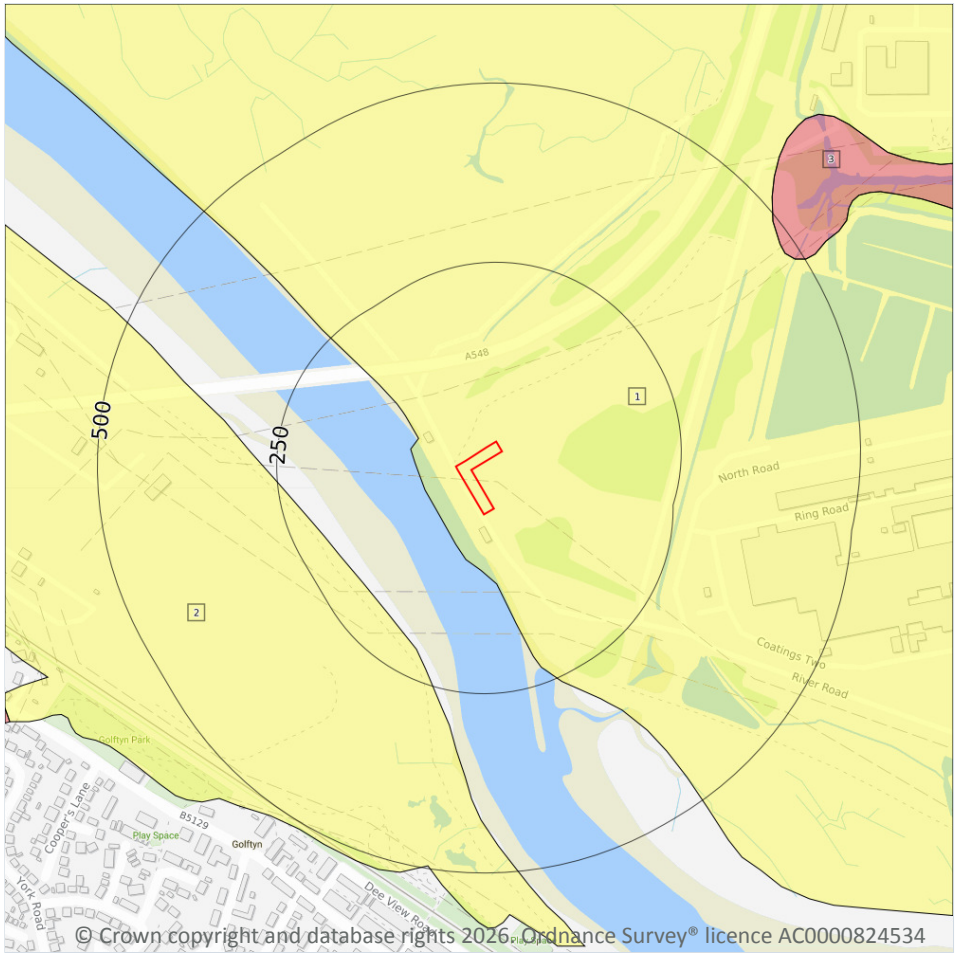
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



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Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	3

Aquifer status of groundwater held within superficial geology.

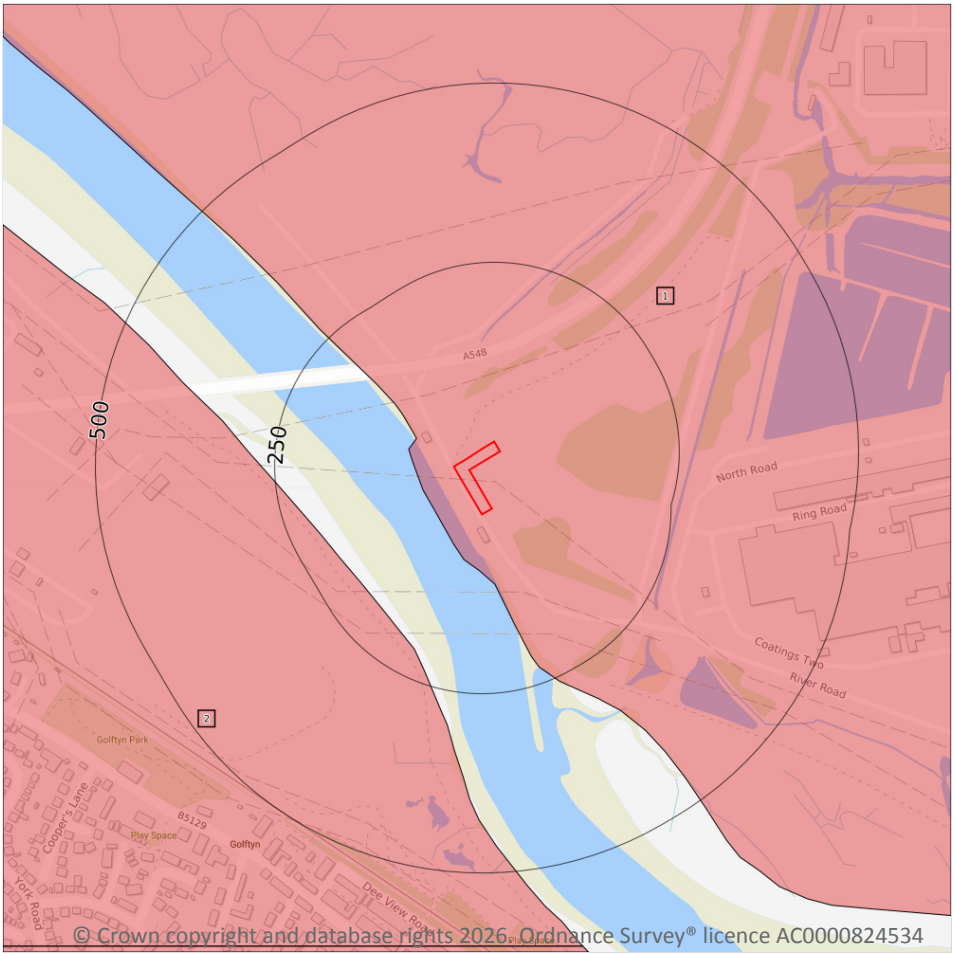
Features are displayed on the Hydrogeology map on **page 39 >**

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	191m SW	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	481m NE	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.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	2

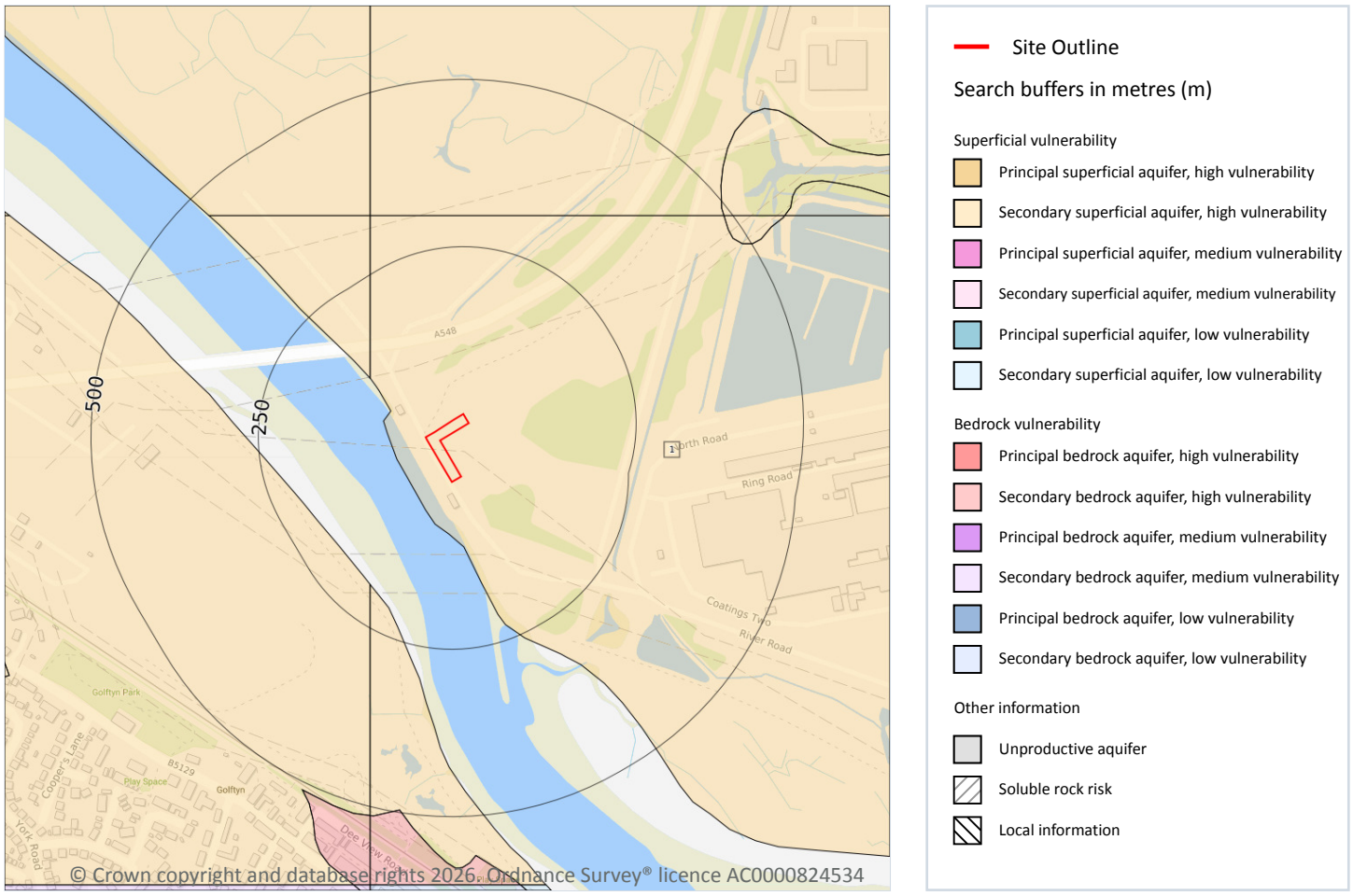
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 41 >**

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	191m SW	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



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5.3 Groundwater vulnerability

Records within 50m	1

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 43 >**

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: 300-550mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High 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	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	0

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.

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

5.7 Surface water abstractions

Records within 2000m	3

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 45 >**

ID	Location	Details	
1	55m NW	Status: Historical Licence No: 24/67/10/0117 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: Dee Point: - Data Type: Point Name: - Easting: 329036 Northing: 370697	Annual Volume (m^3): 8854272 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Dec 19 2017 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	817m NW	Status: Active Licence No: 24/67/10/0124 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: River Dee Point: - Data Type: Point Name: - Easting: 328430 Northing: 371160	Annual Volume (m^3): 24090000 Max Daily Volume (m^3): 66000 Original Application No: - Original Start Date: 05/01/2017 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	817m NW	Status: Historical Licence No: 24/67/10/0124 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: River Dee Point: - Data Type: Point Name: - Easting: 328430 Northing: 371160	Annual Volume (m^3): 24090000 Max Daily Volume (m^3): 264000 Original Application No: - Original Start Date: 05/01/2017 Expiry Date: 31/03/2027 Issue No: - Version Start Date: - Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

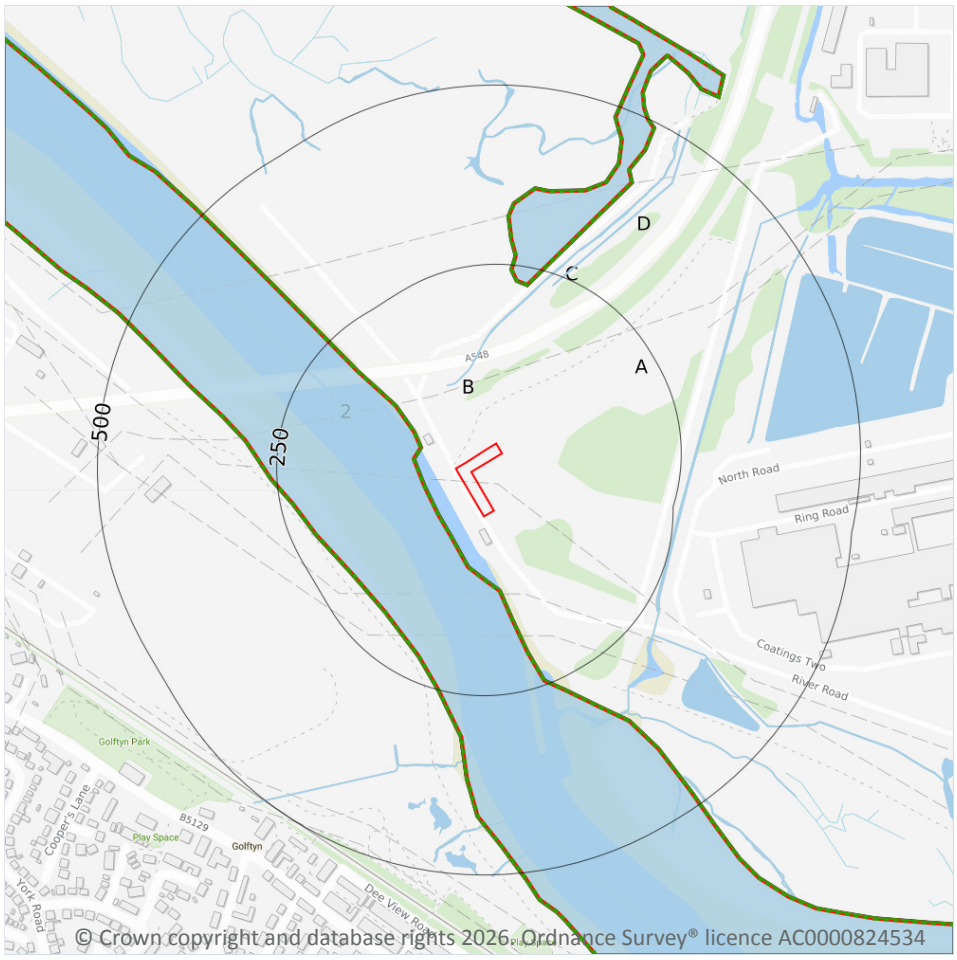
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	5

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 48 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	77m SW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Dyfrdwy

ID	Location	Type of water feature	Ground level	Permanence	Name
B	102m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	111m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	141m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	234m N	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	**2**

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 48 >**

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 48 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**Coastal catchment**	**Not part of a river WB catchment**	**166**	**Dee Estuary**	**Dee**

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.

Features are displayed on the Hydrology map on **page 48 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	48m W	Transitional	DEE (N. WALES)	GB531106708200	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

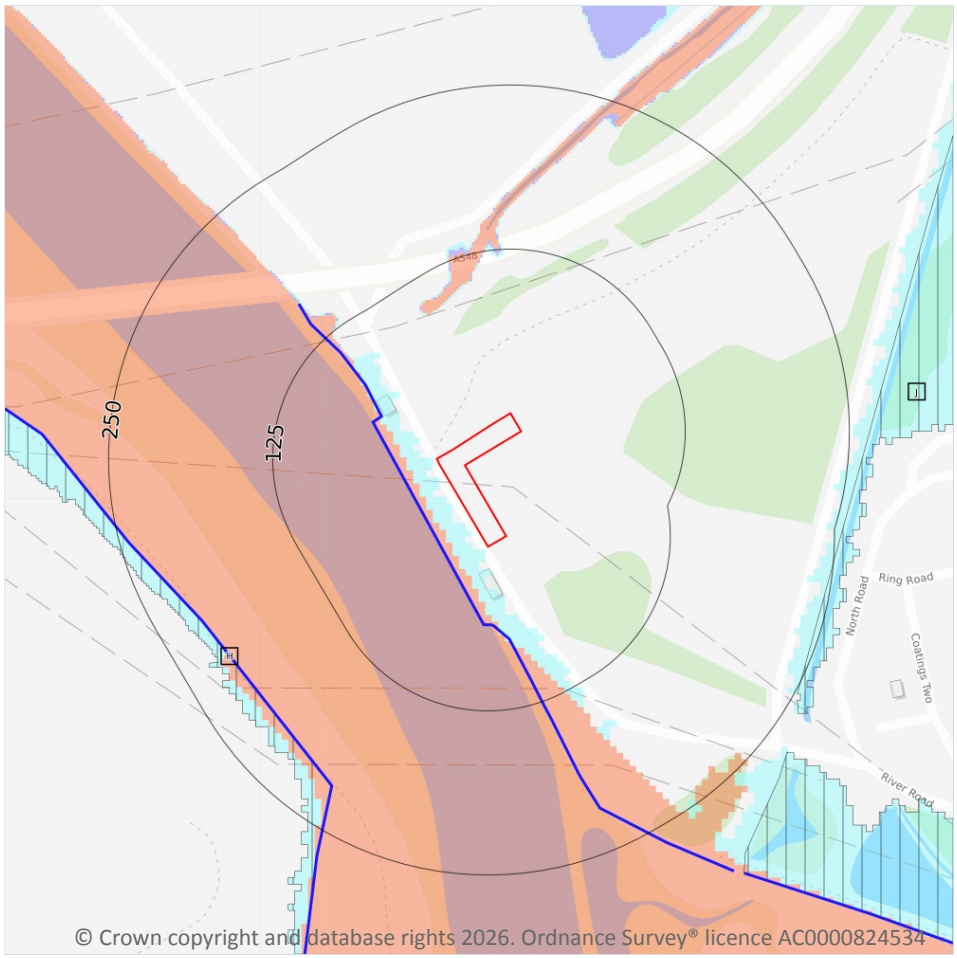
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 48 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Dee Carboniferous Coal Measures**	**GB41102G204800**	**Poor**	**Poor**	**Good**	**2017**

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	40

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 51 >**

Distance	Flood risk category
On site	**N/A**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	**0**

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

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

7.3 Flood Defences

Records within 250m	**3**

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 51 >**

ID	Location	Update
A	29m SW	08/11/2022
A	59m S	08/11/2022
H	206m SW	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	**2**

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 51 >**

ID	Location	
H	206m SW	Area benefiting from flood defences
J	246m E	Area benefiting from flood defences

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

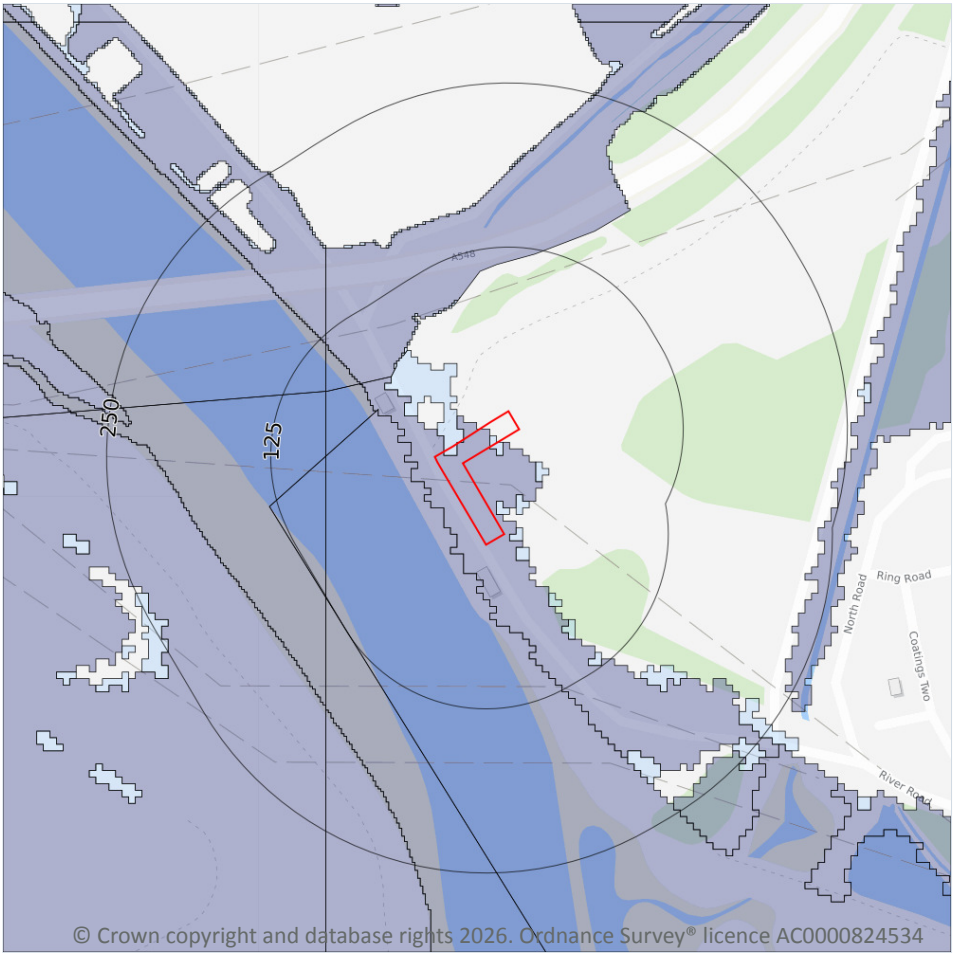
7.5 Flood Storage Areas

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

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 51 >**

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

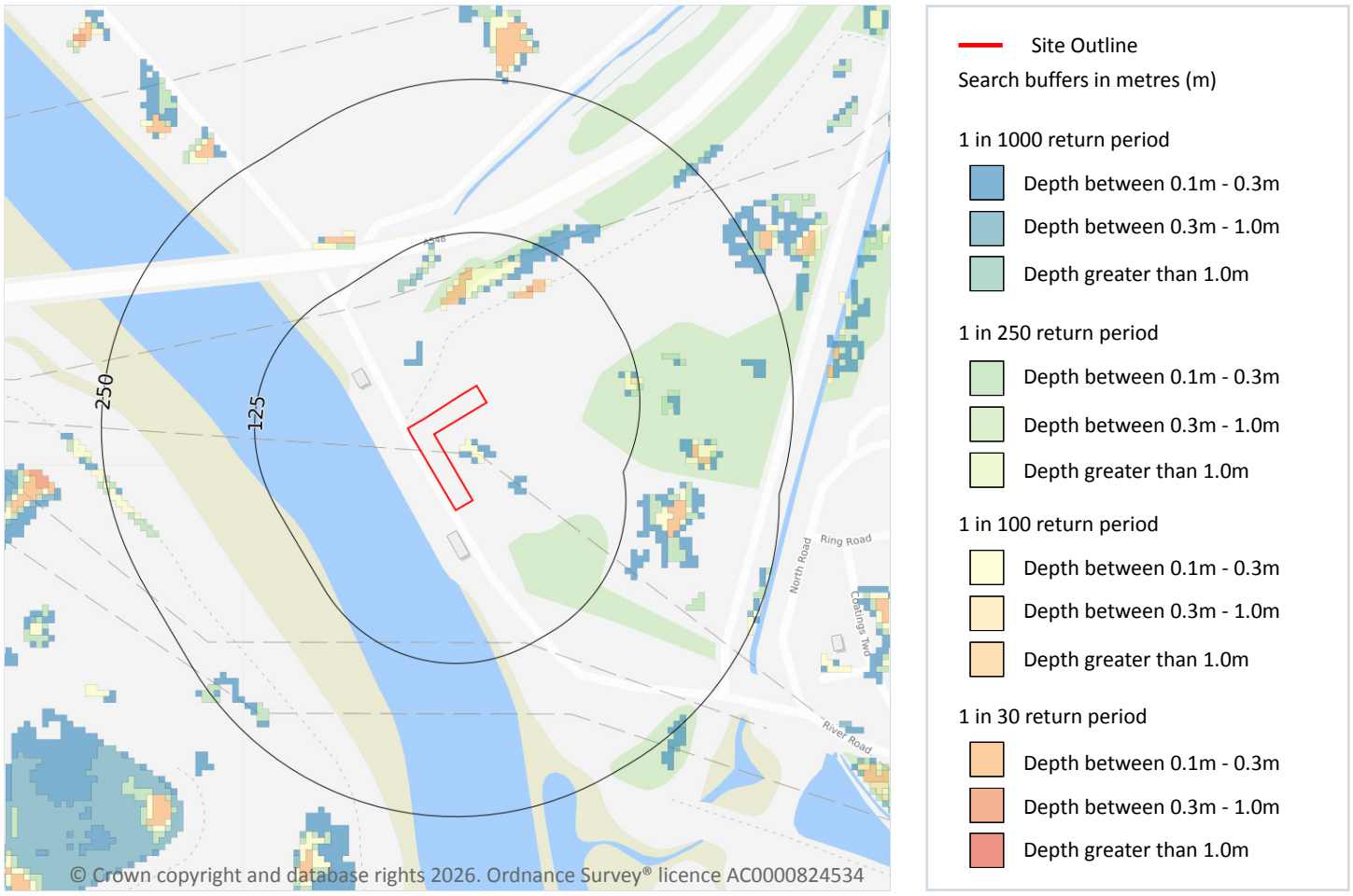
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 51 >**

Location	Type
On site	**Zone 3 - (Fluvial /Tidal Models)**

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

8 Surface water flooding



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8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**1 in 100 year, 0.1m - 0.3m**

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 56 >**

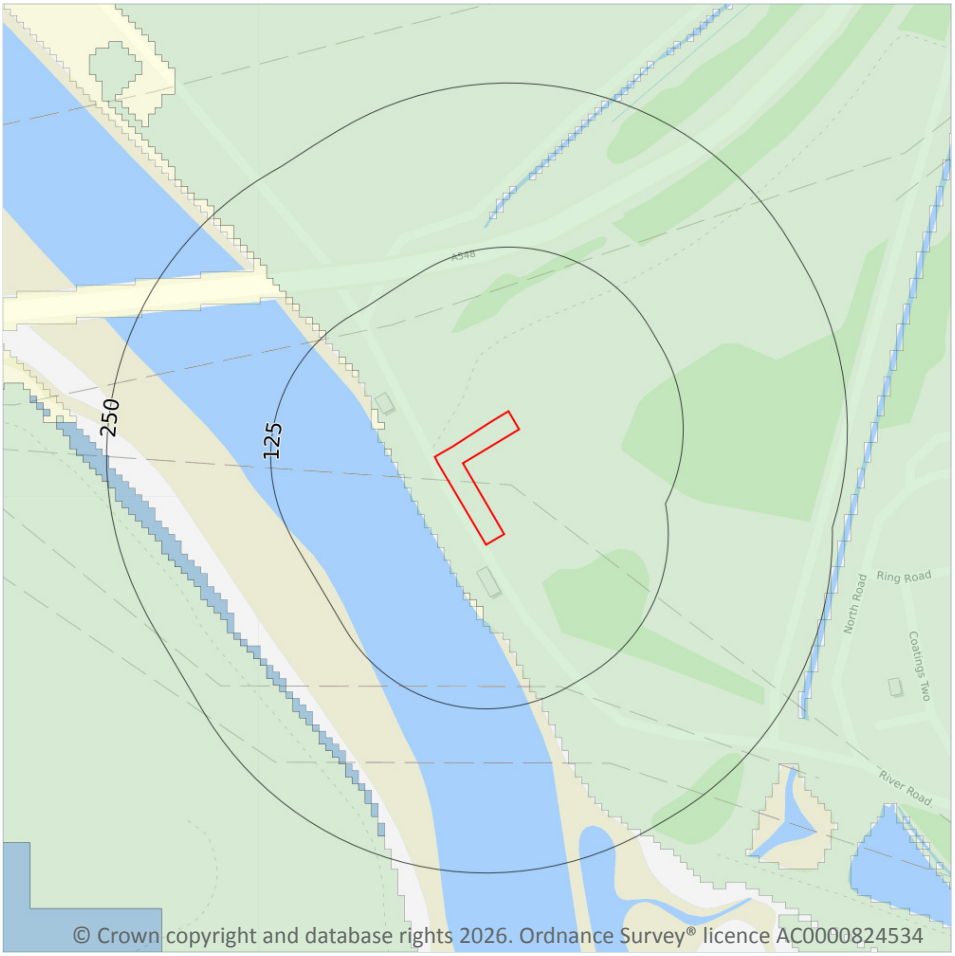
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

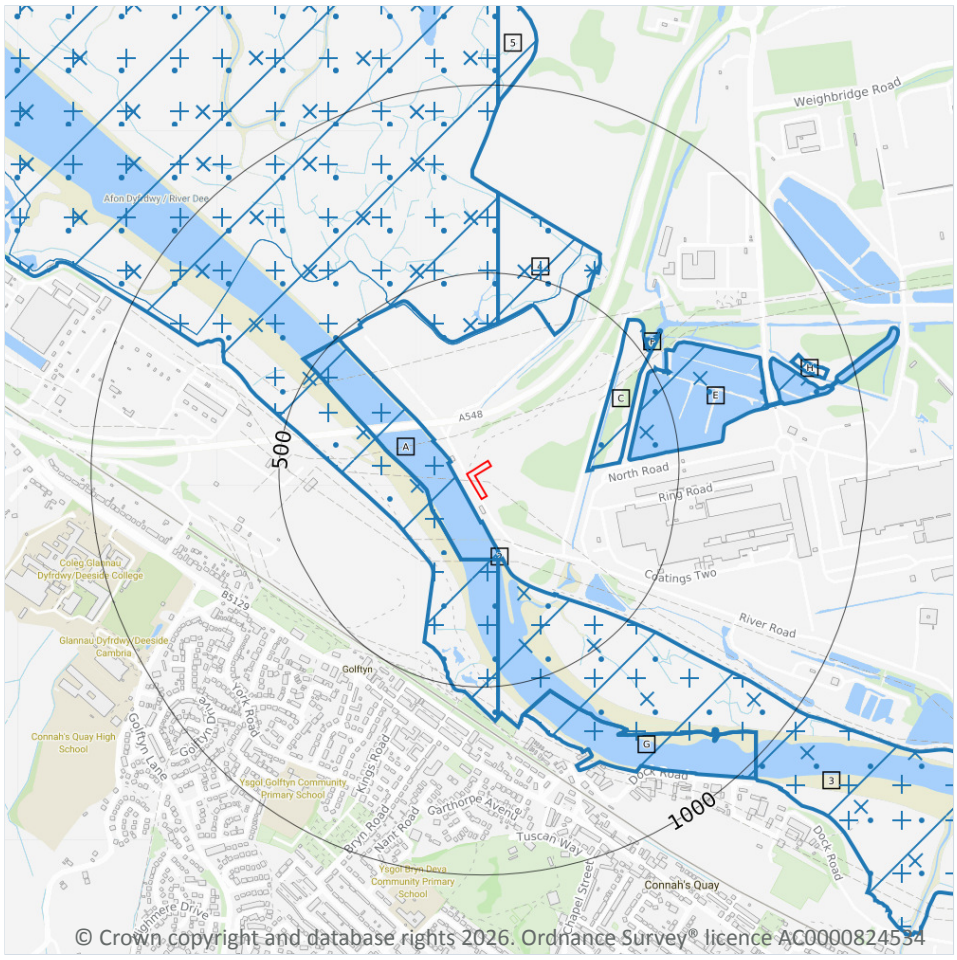
Highest risk on site	**Low**
Highest risk within 50m	**Moderate**

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 58 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

- Sites of Special Scientific Interest (SSSI)
- Conserved wetland sites (Ramsar sites)
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Local Nature Reserves (LNR)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	14

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 59 >**

ID	Location	Name	Data source
A	30m SW	Afon Dyfrdwy (River Dee)	Natural Resources Wales

ID	Location	Name	Data source
1	115m SW	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
2	145m S	Afon Dyfrdwy (River Dee)	Natural Resources Wales
3	167m S	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
C	257m E	Shotton Lagoons and Reedbeds	Natural Resources Wales
E	367m E	Shotton Lagoons and Reedbeds	Natural Resources Wales
4	368m N	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
F	523m NE	Shotton Lagoons and Reedbeds	Natural Resources Wales
G	542m S	Afon Dyfrdwy (River Dee)	Natural Resources Wales
H	846m E	Shotton Lagoons and Reedbeds	Natural Resources Wales
5	948m N	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
-	1445m NE	Dee Estuary / Aber Afon Dyfrdwy	Natural Resources Wales
-	1565m SE	Afon Dyfrdwy (River Dee)	Natural Resources Wales
-	1904m S	Connah's Quay Ponds and Woodland	Natural Resources Wales

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	**6**

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Site	Details
B	115m SW	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

ID	Location	Site	Details
C	257m E	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

ID	Location	Site	Details
D	323m N	Name: The Dee Estuary Site status: Listed Data source: Natural England	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

ID	Location	Site	Details
E	367m E	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

ID	Location	Site	Details
F	523m NE	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

ID	Location	Site	Details
H	846m E	Name: The Dee Estuary (Wales) Site status: - Data source: Natural Resources Wales	Overview: The Dee is a large funnel-shaped sheltered estuary and is one of the top ten estuaries in the UK for wintering and passage waterfowl populations. The estuary supports internationally important numbers of waterfowl and waders. The estuary is an accreting system and the extent of saltmarsh continues to expand as the estuary seeks to achieve a new equilibrium situation following large-scale historical land-claim at the head of the estuary which commenced in the 1730s. Nevertheless, the estuary still supports extensive areas of intertidal sand and mudflats as well as saltmarsh. Where land-claim has not occurred, the saltmarshes grade into transitional brackish and freshwater swamp vegetation, on the upper shore. The site includes the three sandstone islands of Hilbre with their important cliff vegetation and maritime heathland/grassland, the sand dune system between the Point of Ayr and Prestatyn in Wales and Red Rocks in England, various Welsh coastal fields historically reclaimed from the estuary but used by the Dee Estuary wintering waterfowl populations, freshwater lagoons and reedbeds at Shotton supporting the largest common tern breeding colony in Wales and freshwater lagoons at Inner Marsh Farm used by waterfowl throughout the year but particularly in winter. The two shorelines of the estuary show a marked contrast between the industrialised usage of the coastal belt in Wales and residential and recreational usage in England. Ramsar criteria: Ramsar criterion 1 Extensive intertidal mud and sand flats (20 km by 9 km) with large expanses of saltmarsh towards the head of the estuary. Habitats Directive Annex I features present on the pSAC include: H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1210 Annual vegetation of drift lines H1230 Vegetated sea cliffs of the Atlantic and Baltic coasts H1310 Salicornia and other annuals colonising mud and sand H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae) H2110 Embryonic shifting dunes H2120 Shifting dunes along the shoreline with Ammophila arenaria (“white dunes”) H2130 Fixed dunes with herbaceous vegetation (“grey dunes”) H2190 Humid dune slacks Criterion 2, it supports breeding colonies of the vulnerable Natterjack Toad, Epidalea calamita

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	**5**

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.

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Features of interest	Habitat description	Data source
A	30m SW	River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid (Wales)	Rivers with floating vegetation often dominated by water-crowfoot; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Twaite shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; Otter; Floating water-plantain	Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Inland water bodies (Standing water, Running water); Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales
B	115m SW	Dee Estuary / Aber Dyfrdwy (Wales)	Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Vegetated sea cliffs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Shifting dunes with marram; Dune grassland; Humid dune slacks; Dry heaths; Sea lamprey; River lamprey; Twaite shad; Otter; Grey seal; Petalwort	Shingle, Sea cliffs, Islets; Salt marshes, Salt pastures, Salt steppes; Humid grassland, Mesophile grassland; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Coastal sand dunes, Sand beaches, Machair; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural Resources Wales
G	542m S	River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid (Wales)	Rivers with floating vegetation often dominated by water-crowfoot; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Twaite shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; Otter; Floating water-plantain	Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Inland water bodies (Standing water, Running water); Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales
-	1565m SE	River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid (Wales)	Rivers with floating vegetation often dominated by water-crowfoot; Mixed woodland on base-rich soils associated with rocky slopes; Western acidic oak woodland; Alder woodland on floodplains; Sea lamprey; Brook lamprey; River lamprey; Twaite shad; Atlantic salmon; Bullhead; Freshwater pearl mussel; Otter; Floating water-plantain	Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Inland water bodies (Standing water, Running water); Salt marshes, Salt pastures, Salt steppes	Natural Resources Wales

ID	Location	Name	Features of interest	Habitat description	Data source
-	1904m S	Deeside and Buckley Newt sites	Western acidic oak woodland; Alder woodland on floodplains; Great crested newt; Bullhead	Coniferous woodland; Broad-leaved deciduous woodland; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Dry grassland, Steppes; Improved grassland; Heath, Scrub, Maquis and Garrigue, Phygrana; Mixed woodland	Natural Resources Wales

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

10.4 Special Protection Areas (SPA)

Records within 2000m	**6**

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Species of interest	Habitat description	Data source
B	115m SW	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural Resources Wales

ID	Location	Name	Species of interest	Habitat description	Data source
C	257m E	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural Resources Wales
D	323m N	The Dee Estuary	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural England
E	367m E	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural Resources Wales

ID	Location	Name	Species of interest	Habitat description	Data source
F	523m NE	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural Resources Wales
H	846m E	The Dee Estuary (Wales)	Common shelduck; Eurasian teal; Northern pintail; Eurasian oystercatcher; Grey plover; Red knot; Bar-tailed godwit; Eurasian curlew; Common redshank; Common redshank; Sandwich tern; Common tern; Little tern; Black-tailed godwit; Dunlin	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Mixed woodland; Dry grassland, Steppes; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Improved grassland; Other arable land; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens; Marine areas, Sea inlets	Natural Resources Wales

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

10.5 National Nature Reserves (NNR)

Records within 2000m	**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Data source
-	1904m S	Gathering Grounds Woods & Llwyni Pond	Natural Resources Wales

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

10.7 Designated Ancient Woodland

Records within 2000m	10

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 59 >**

ID	Location	Name	Woodland Type
-	1624m W	Unknown	Ancient Semi Natural Woodland
-	1676m W	Unknown	Restored Ancient Woodland Site
-	1780m SW	Unknown	Ancient Semi Natural Woodland
-	1840m SW	Unknown	Ancient Semi Natural Woodland
-	1868m W	Unknown	Restored Ancient Woodland Site
-	1901m S	Unknown	Restored Ancient Woodland Site
-	1914m S	Unknown	Restored Ancient Woodland Site
-	1967m SW	Unknown	Restored Ancient Woodland Site
-	1969m SW	Unknown	Restored Ancient Woodland Site
-	1978m S	Unknown	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	3

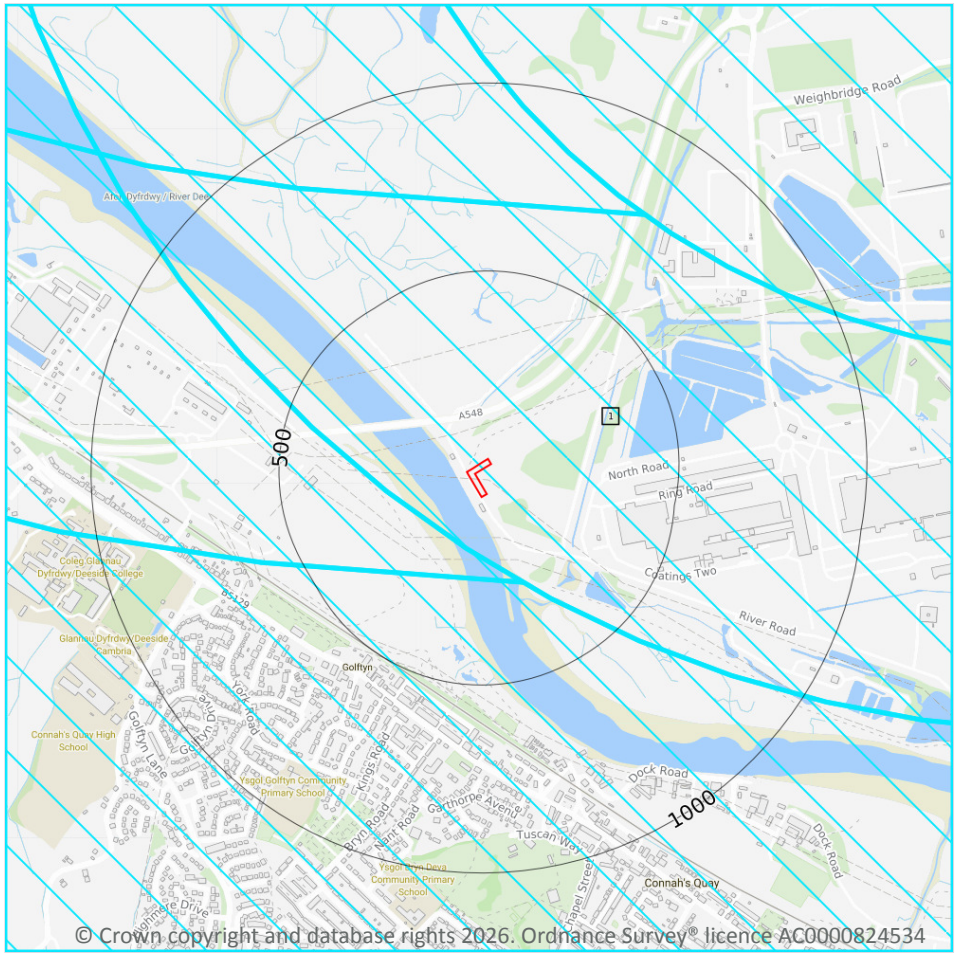
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1182m NE	-	Groundwater	148	Existing

Location	Name	Type	NVZ ID	Status
1503m E	Shotwick Brook NVZ	Surface Water	708	Existing
1503m E	-	Surface Water	708	New

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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 75 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0321000432000&notes=&location=330717,370757%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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.

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.

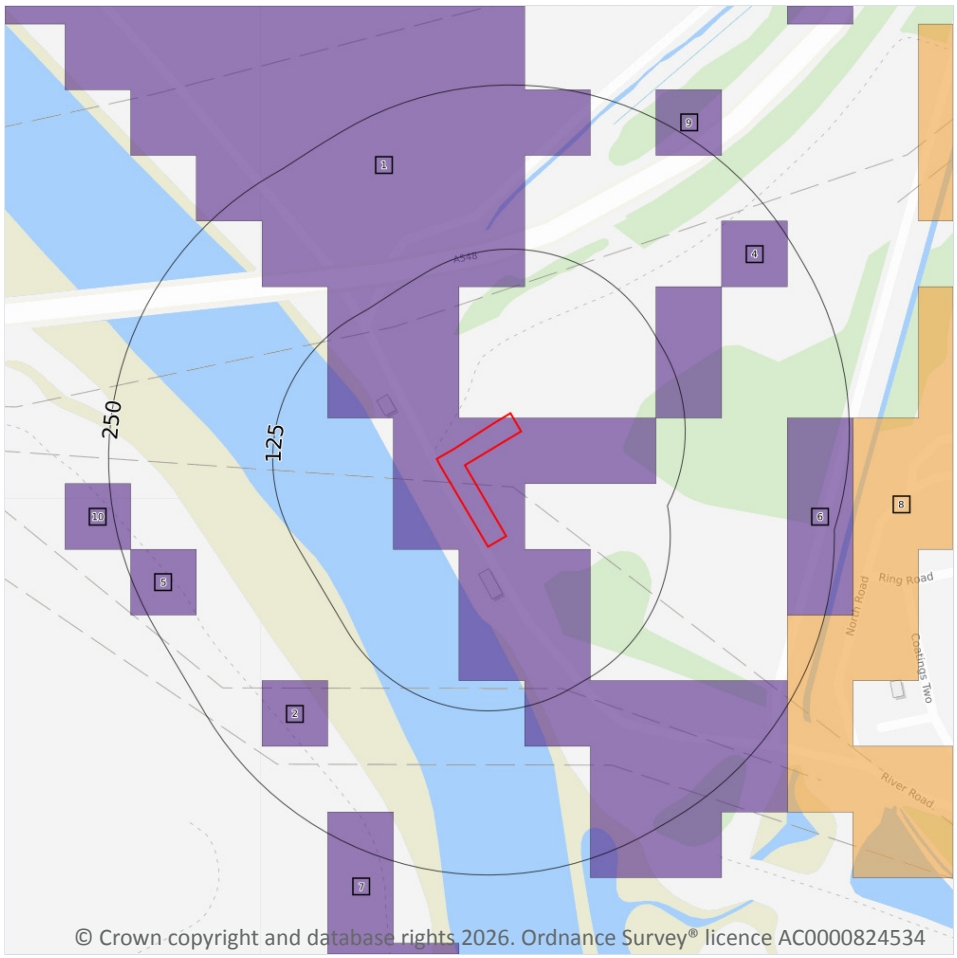
11.7 Registered Parks and Gardens

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



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Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	10

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 79 >**

ID	Location	Classification	Description
1	**On site**	**Grade 5**	**Very poor quality agricultural land**
A	103m E	Grade 5	Very poor quality agricultural land
2	159m SW	Grade 5	Very poor quality agricultural land

ID	Location	Classification	Description
4	188m NE	Grade 5	Very poor quality agricultural land
5	196m W	Grade 5	Very poor quality agricultural land
6	203m E	Grade 5	Very poor quality agricultural land
7	215m S	Grade 5	Very poor quality agricultural land
8	222m E	Grade 2	Good quality agricultural land
9	226m NE	Grade 5	Very poor quality agricultural land
10	234m W	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

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 83 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

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	0

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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.

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

14.5 Bedrock geology (10k)

Records within 500m	0

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.

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	1

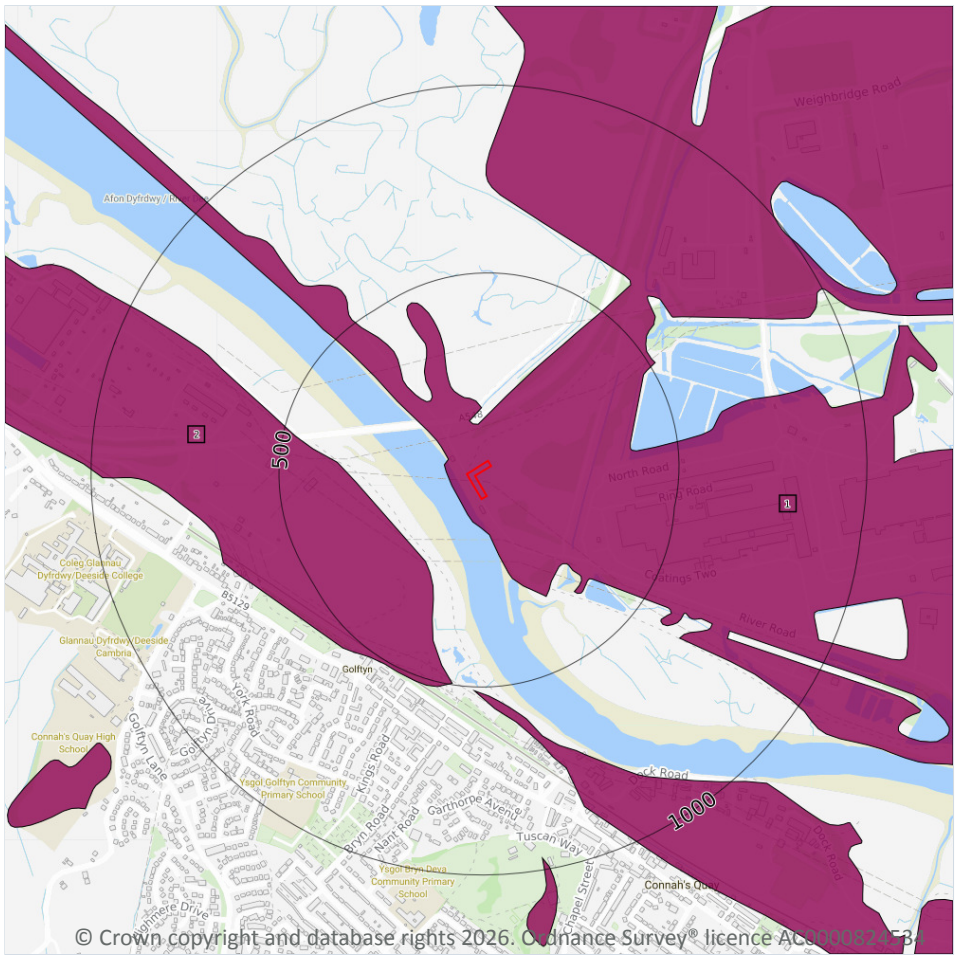
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 87 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW108_flint_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 88 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground**	**Artificial deposit**
2	222m SW	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

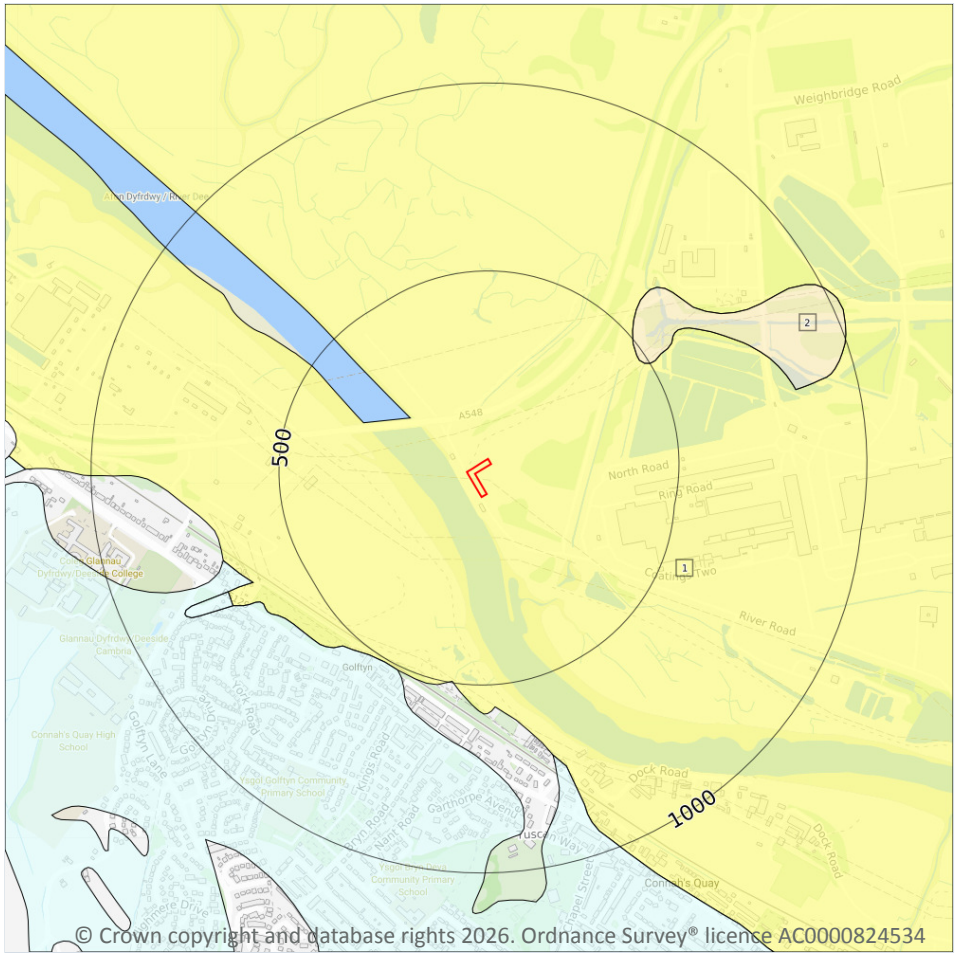
Records within 50m	1

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**

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	2

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 90 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TFD-XCZS**	**Tidal flat deposits**	**Clay, silt and sand**
2	481m NE	BSA-S	Blown sand	Sand

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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**	**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.

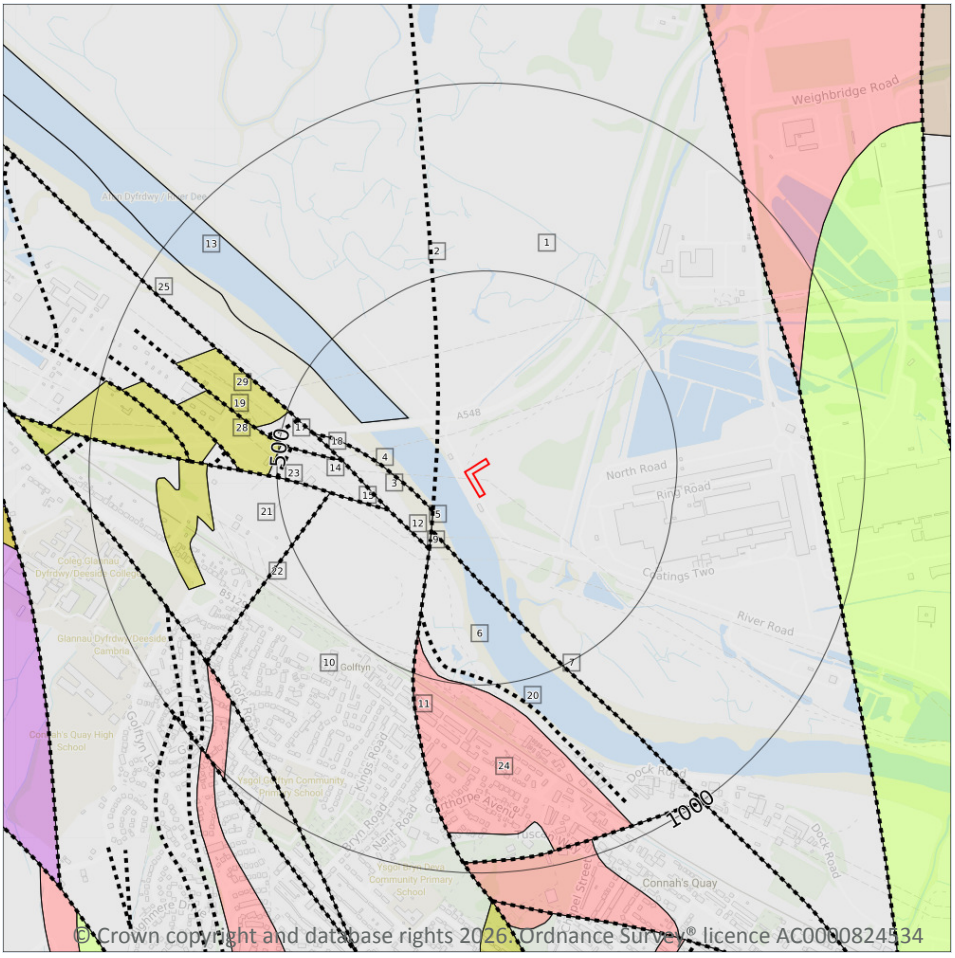
15.7 Landslip permeability (50k)

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	11

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 92 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone**	**Westphalian**
3	126m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
6	153m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
10	192m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
13	208m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
14	227m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
17	328m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
21	362m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
24	399m SW	GS-SDAR	Gwespyr Sandstone-Interbedded sandstone and [subequal/subordinate] argillaceous rocks	Namurian
28	494m W	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
29	494m W	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **1**

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	**Fracture**	**Moderate**	**Low**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **18**

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 92 >**

ID	Location	Category	Description
2	78m W	FAULT	Fault, inferred, displacement unknown
4	126m SW	FAULT	Fault, inferred, displacement unknown
5	126m SW	FAULT	Fault, inferred, displacement unknown
7	153m SW	FAULT	Fault, inferred, displacement unknown
8	155m SW	FAULT	Fault, inferred, displacement unknown
9	177m SW	FAULT	Fault, inferred, displacement unknown
11	192m SW	FAULT	Fault, inferred, displacement unknown
12	192m SW	FAULT	Fault, inferred, displacement unknown
15	227m SW	FAULT	Fault, inferred, displacement unknown
16	227m SW	FAULT	Fault, inferred, displacement unknown
18	328m W	FAULT	Fault, inferred, displacement unknown
19	328m W	FAULT	Fault, inferred, displacement unknown
20	346m SW	ROCK	Coal seam, inferred
22	362m W	FAULT	Fault, inferred, displacement unknown
23	362m W	FAULT	Fault, inferred, displacement unknown
25	414m W	FAULT	Fault, inferred, displacement unknown
26	465m W	ROCK	Coal seam, inferred
27	467m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



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Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	3

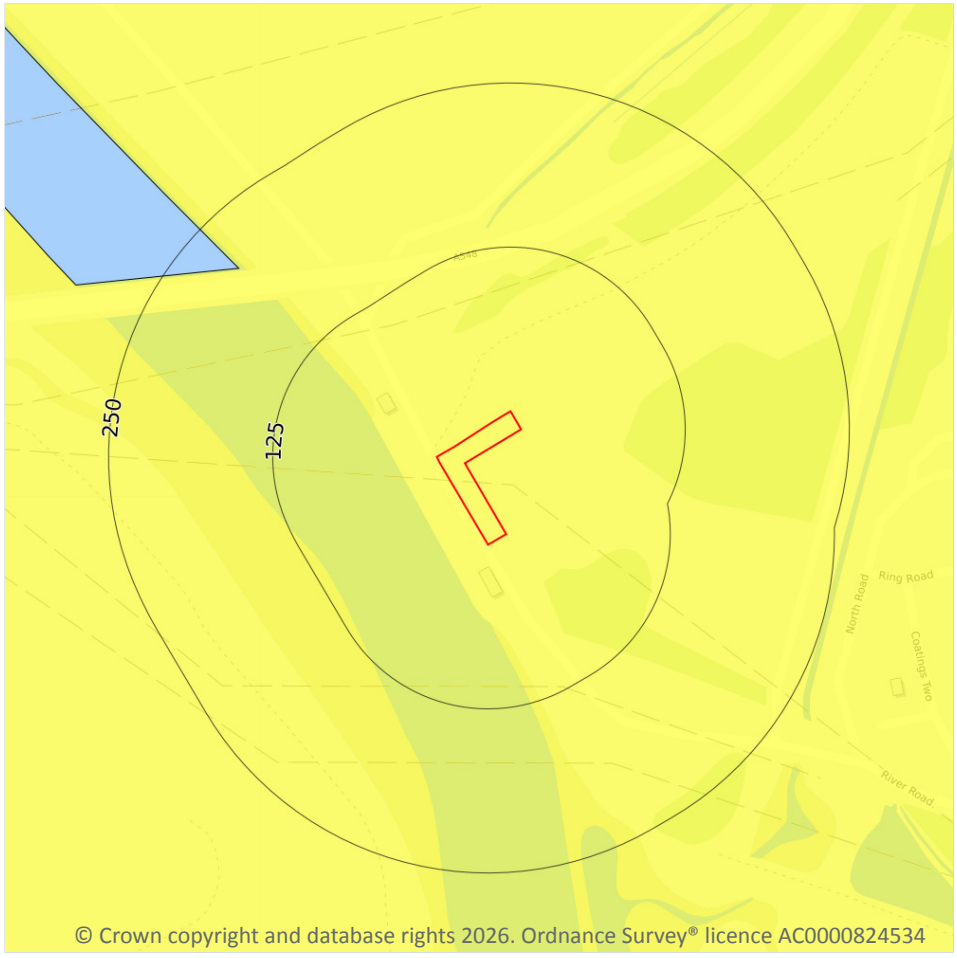
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 95 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	98m NW	329060 370770	CEGB LINE, SHOTTON PAPER CO. 5	-	Y	N/A
2	147m NW	329000 370790	DEESIDE ROAD LINK RIVER CROSSING 4	-	Y	N/A
3	148m N	329160 370850	DEESIDE ROAD LINK RIVER CROSSING 3	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	1

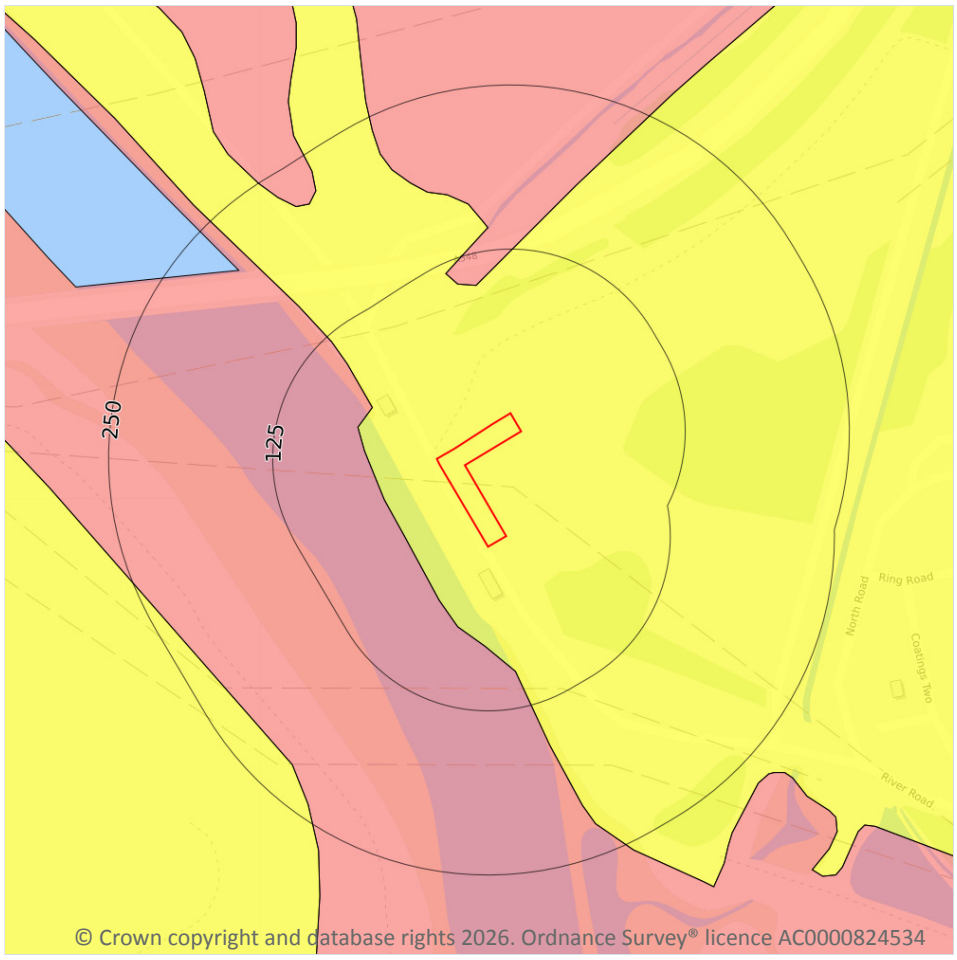
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 97 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	2

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.

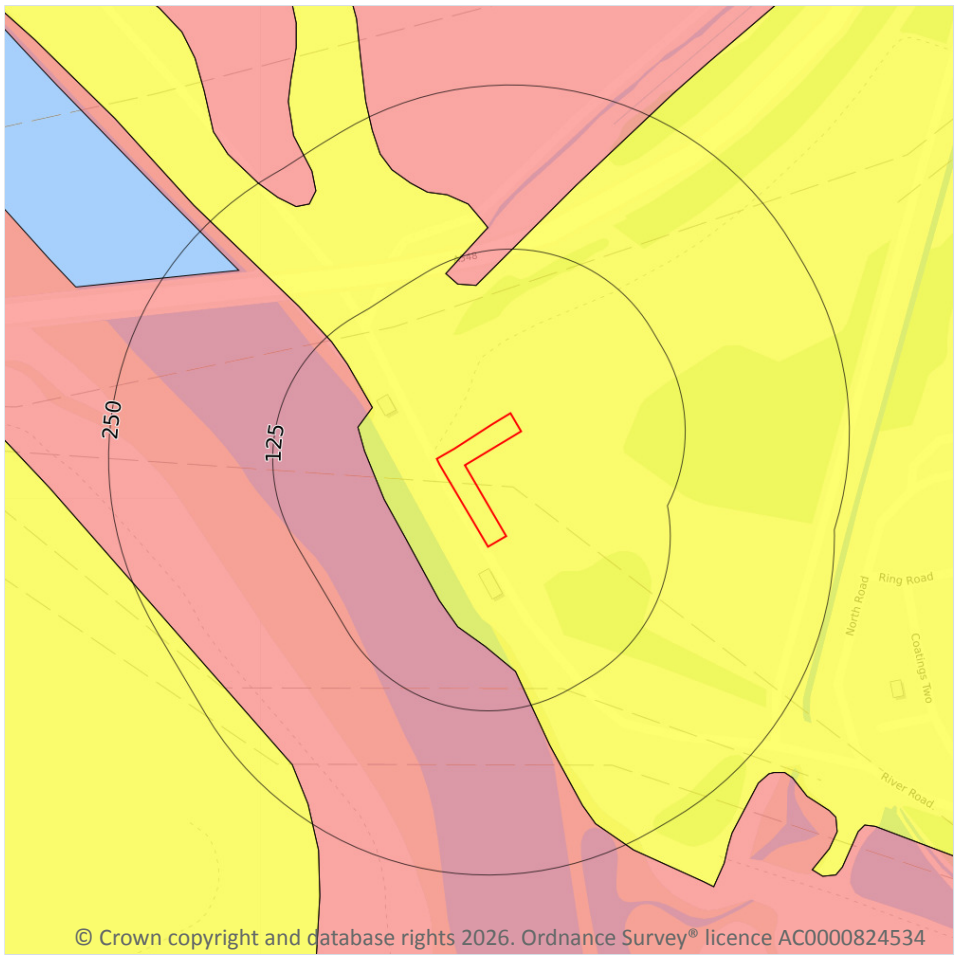
Features are displayed on the Natural ground subsidence - Running sands map on **page 98 >**

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
49m W	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



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

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 100 >**

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
49m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

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 102 >**

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



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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 103 >**

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



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

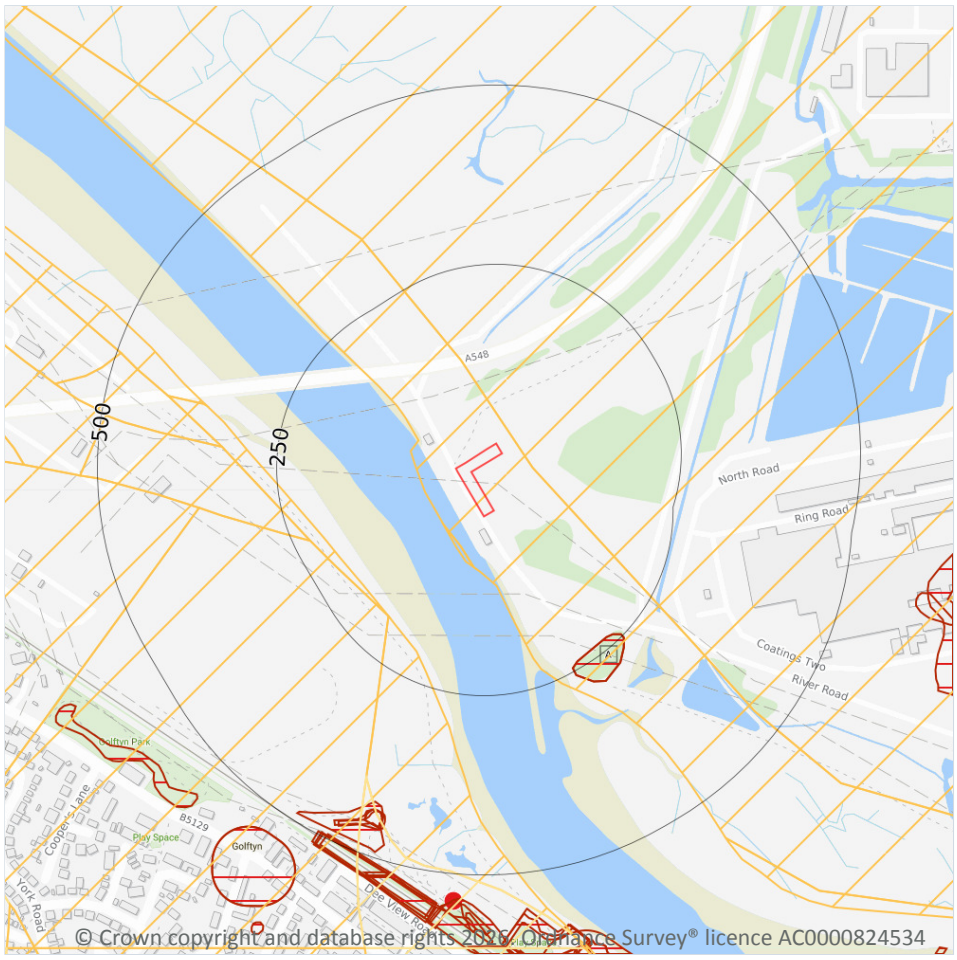
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 104 >**

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



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

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	2

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 106 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	236m SE	Unspecified Pit	1981	1:10000
A	236m SE	Unspecified Pit	1969	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	40

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 106 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Iron Ore (Bedded)**	**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.**
2	24m NE	Not available	Iron Ore (Bedded)	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.
3	51m SW	Not available	Iron Ore (Bedded)	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.
4	191m SW	Not available	Iron Ore (Bedded)	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.
5	192m SW	Not available	Iron Ore (Bedded)	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.
6	192m SW	Not available	Iron Ore (Bedded)	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.
7	227m SW	Not available	Iron Ore (Bedded)	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.

ID	Location	Name	Commodity	Class	Likelihood
8	328m W	Not available	Iron Ore (Bedded)	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.
9	359m W	Not available	Iron Ore (Bedded)	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.
B	362m W	Not available	Iron Ore (Bedded)	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.
C	399m SW	Not available	Vein Mineral	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.
10	494m W	Not available	Iron Ore (Bedded)	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.
11	494m W	Not available	Iron Ore (Bedded)	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.
13	560m SE	Not available	Iron Ore (Bedded)	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.
C	597m S	Not available	Iron Ore (Bedded)	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.
14	602m S	Not available	Vein Mineral	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
15	602m W	Not available	Iron Ore (Bedded)	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.
C	618m S	Not available	Iron Ore (Bedded)	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.
16	625m S	Not available	Iron Ore (Bedded)	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.
-	655m S	Not available	Iron Ore (Bedded)	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.
-	665m W	Not available	Iron Ore (Bedded)	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.
-	683m W	Not available	Iron Ore (Bedded)	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.
-	720m W	Not available	Iron Ore (Bedded)	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.
-	733m W	Not available	Iron Ore (Bedded)	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.
22	847m SW	Not available	Vein Mineral	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
-	848m E	Not available	Vein Mineral	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.
-	849m SW	Not available	Iron Ore (Bedded)	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.
-	849m E	Not available	Vein Mineral	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.
-	853m E	Not available	Iron Ore (Bedded)	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.
27	854m SW	Not available	Iron Ore (Bedded)	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.
-	855m E	Not available	Vein Mineral	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	869m SW	Not available	Iron Ore (Bedded)	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.
-	876m S	Not available	Iron Ore (Bedded)	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.
32	897m SW	Not available	Vein Mineral	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
-	905m SE	Not available	Iron Ore (Bedded)	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.
-	930m SW	Not available	Iron Ore (Bedded)	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.
-	959m S	Not available	Iron Ore (Bedded)	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.
-	973m NE	Not available	Vein Mineral	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.
-	984m NW	Not available	Iron Ore (Bedded)	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.
-	990m SE	Not available	Iron Ore (Bedded)	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.

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	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

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	0

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

This data is sourced from Stantec UK Ltd.

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.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

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 117 >**

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	1

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 mg/kg**

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

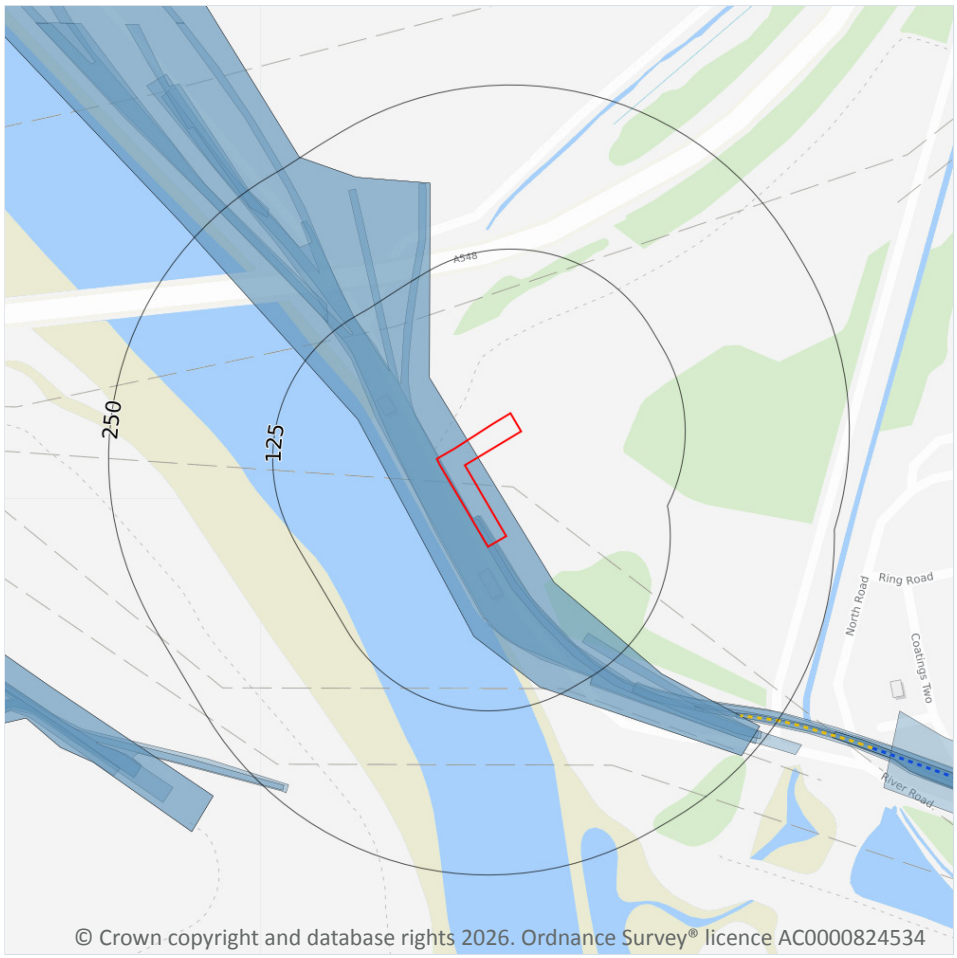
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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	11

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 120 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1982**	**2500**
On site	**Railway Sidings**	**1964**	**2500**
On site	**Railway Sidings**	**1988**	**2500**
On site	**Railway Sidings**	**1981**	**10000**
On site	**Railway Sidings**	**1969**	**10560**
133m NW	Railway Sidings	1978	2500
150m SE	Railway Sidings	1978	2500
221m SE	Railway Sidings	1993	2500
225m NW	Railway Sidings	1978	2500
237m SW	Railway Sidings	1982	2500
239m SW	Railway Sidings	1979	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	1

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

Features are displayed on the Railway infrastructure and projects map on **page 120 >**

Location	Description
225m SE	Abandoned

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 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.

22.9 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.

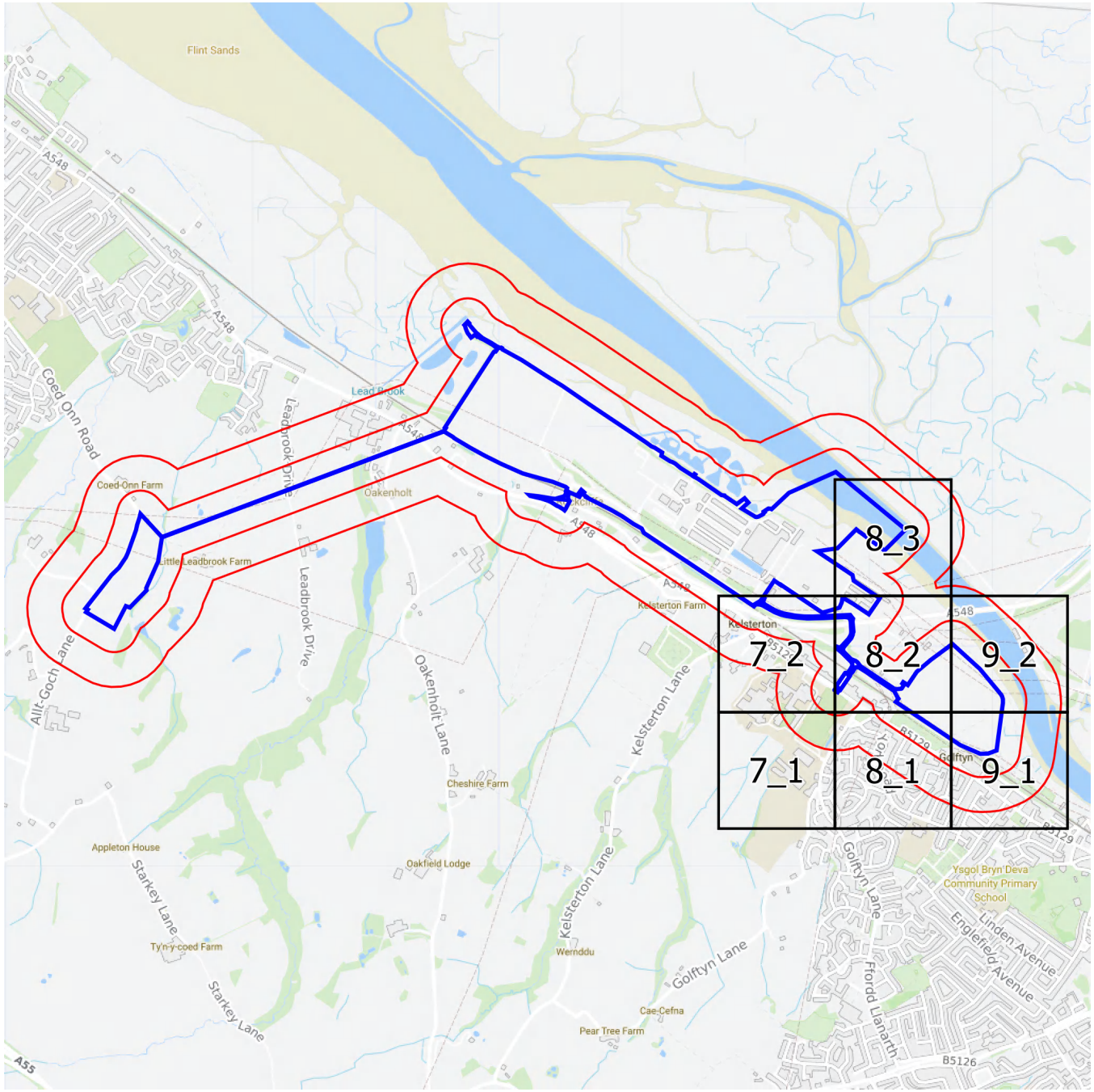
Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Annex E: Historical Mapping



Groundsure INSIGHTS

1:1,250 Scale Grid Index

N
W
E
S



Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: **1979**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1979
Levelled 1959

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1979
Levelled 1959

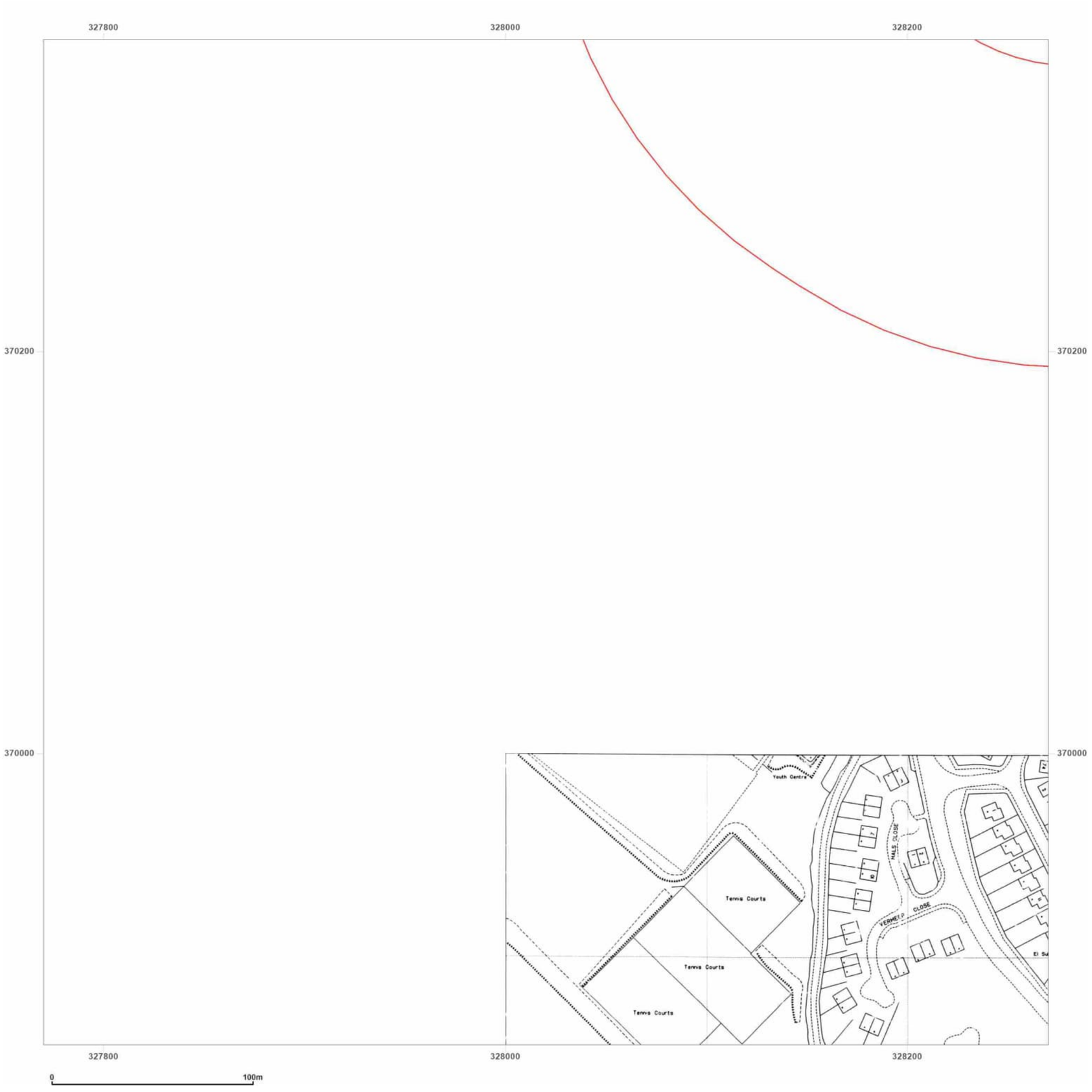
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1992
Scale: 1:1,250
Printed at: 1:2,000

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

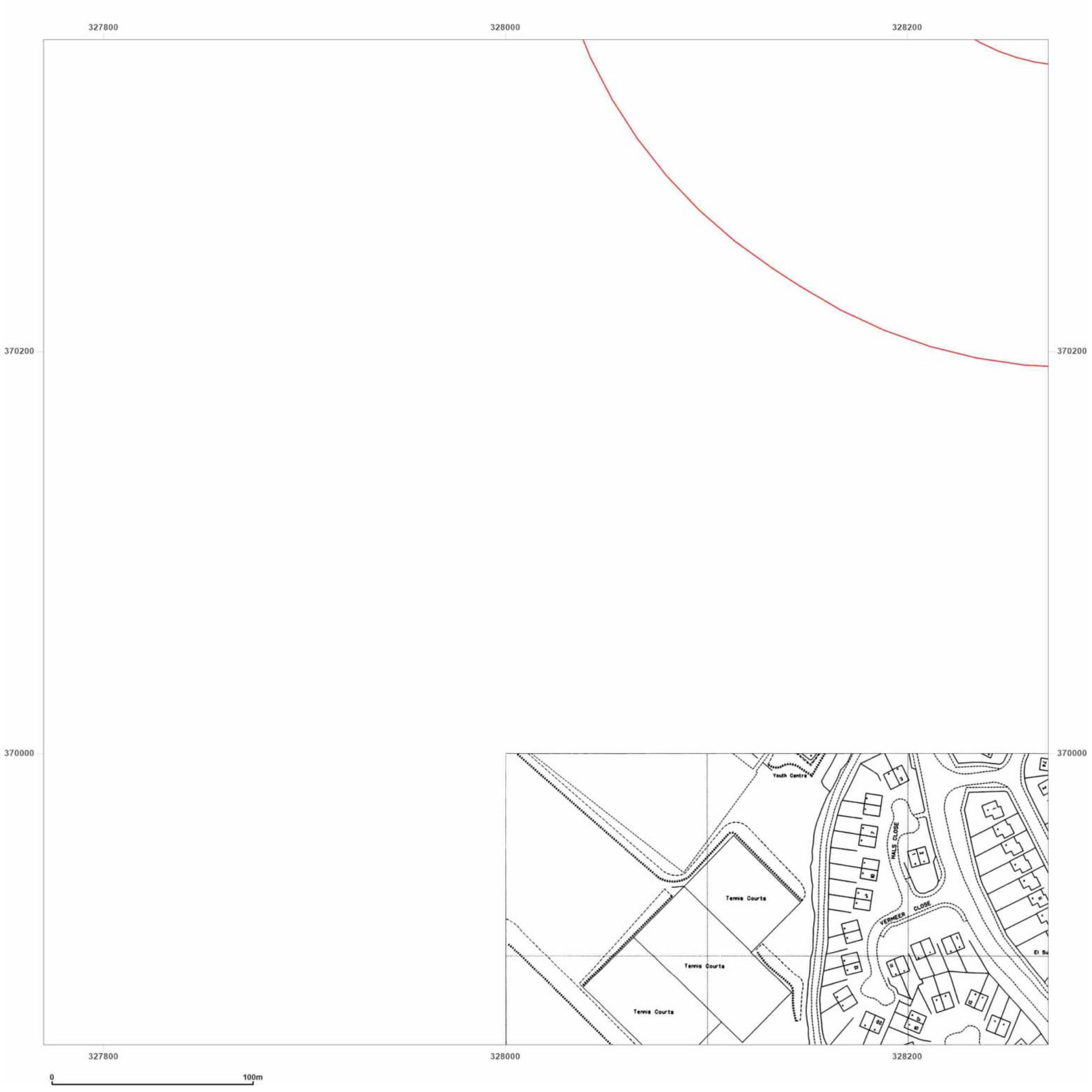
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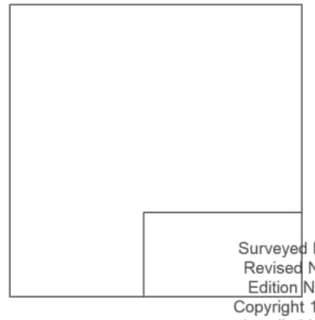
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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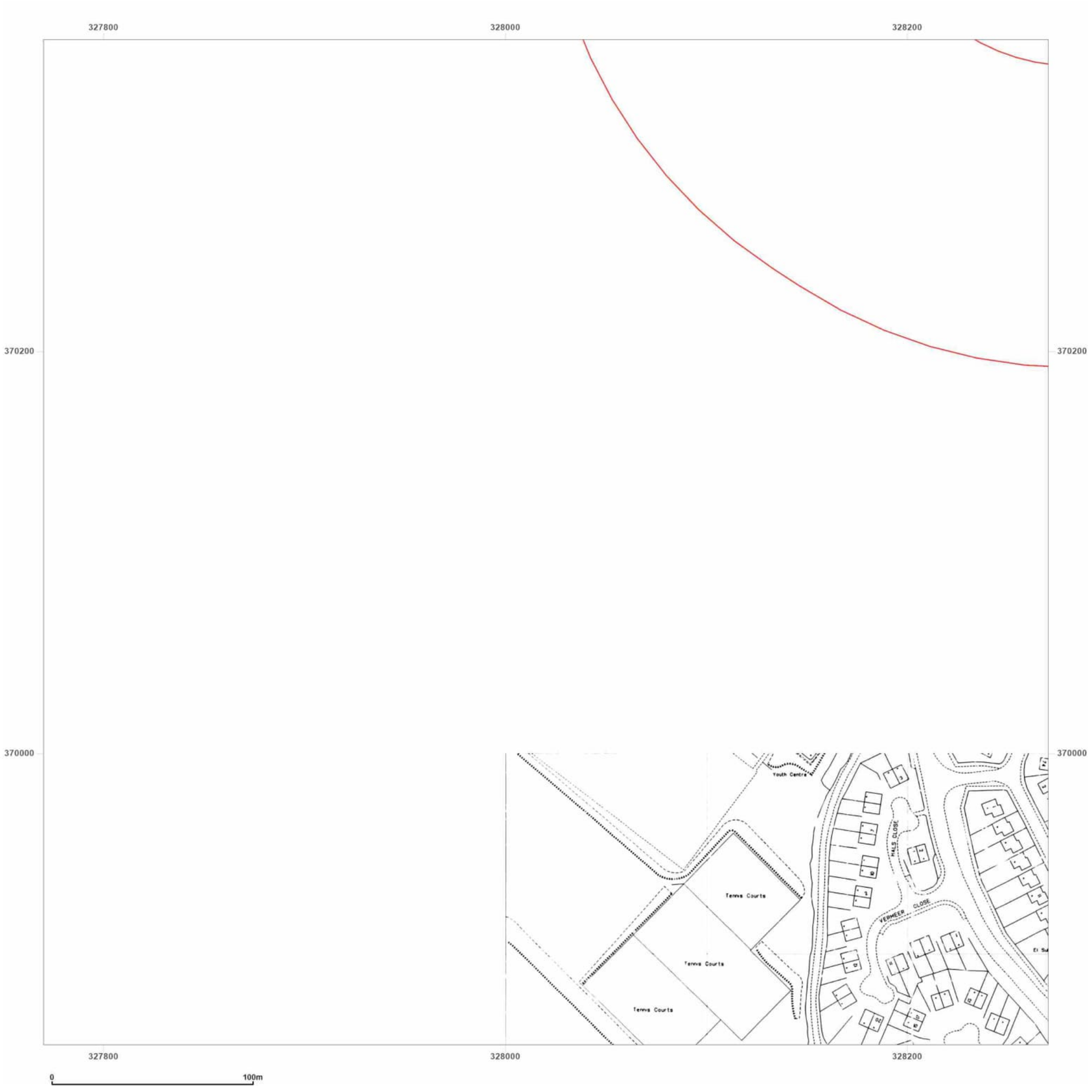
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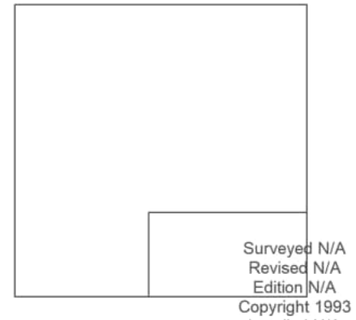
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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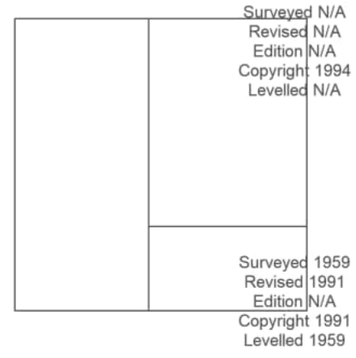
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: **1991-1994**
Scale: 1:1,250
Printed at: 1:2,000

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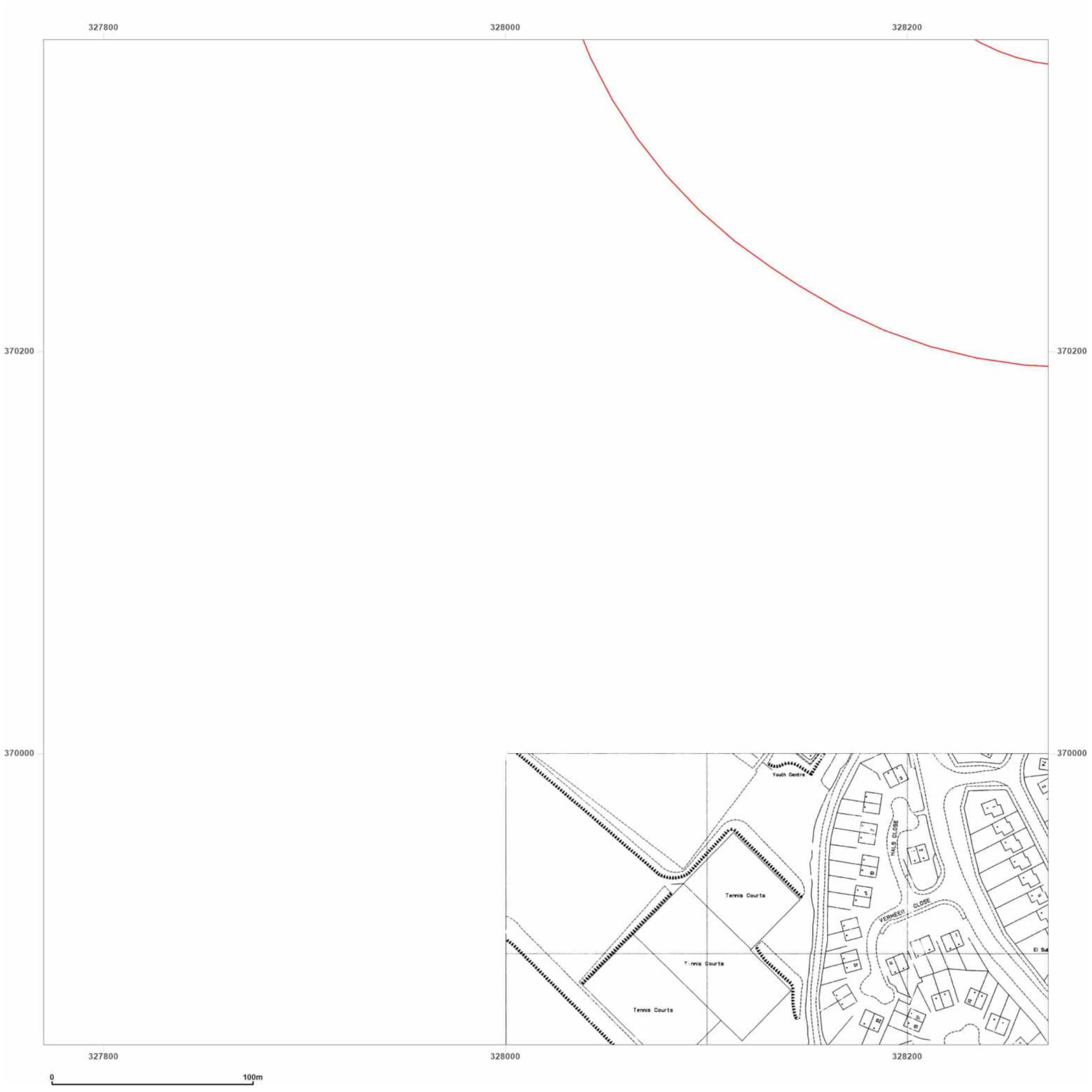
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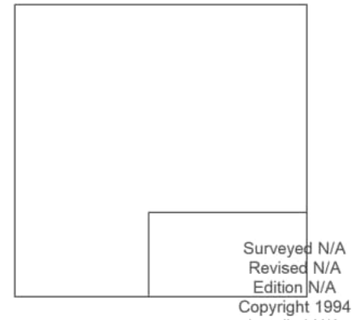
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Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1994
Scale: 1:1,250
Printed at: 1:2,000

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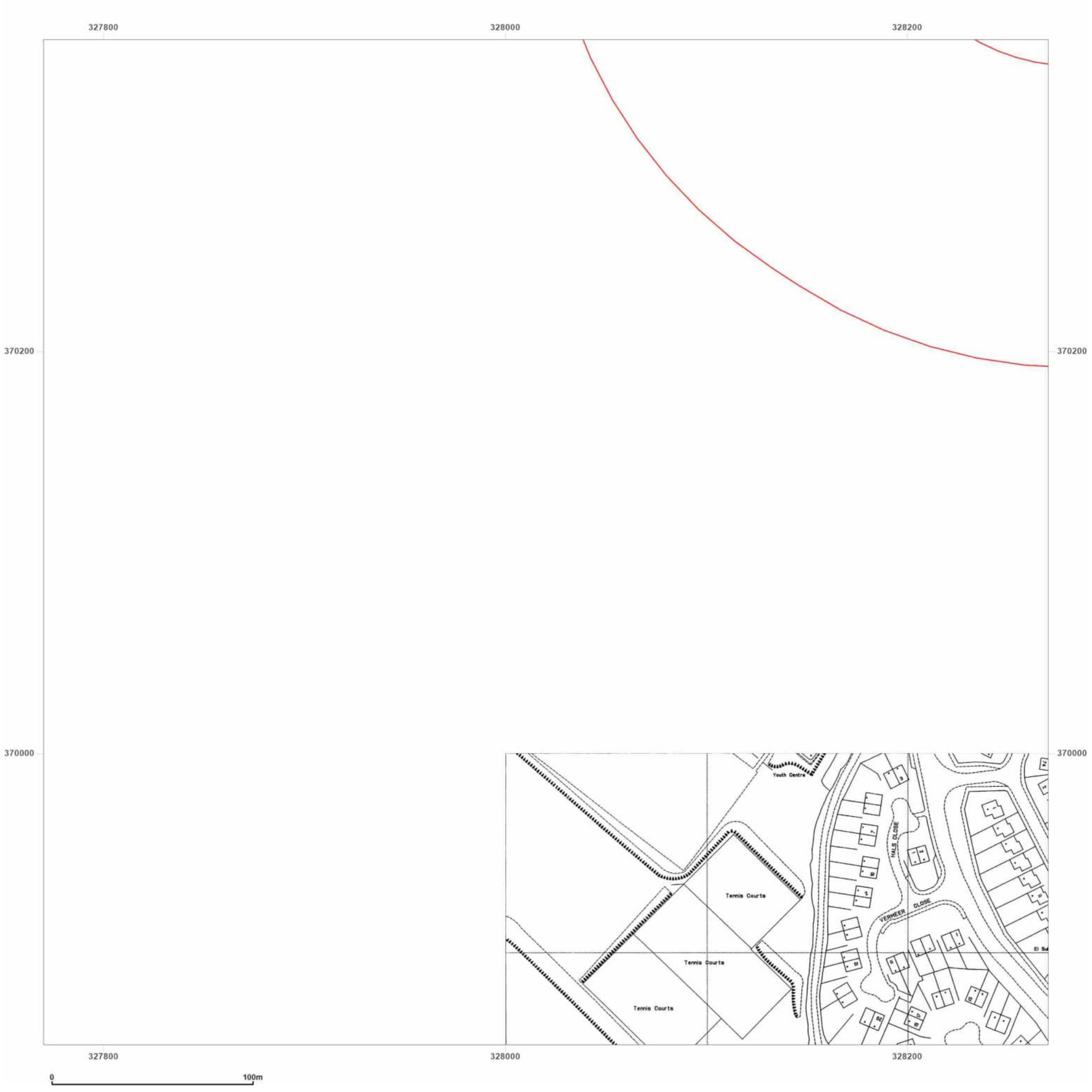
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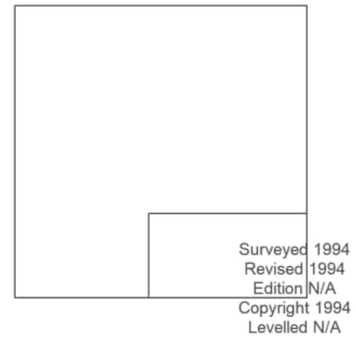
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Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1994
Scale: 1:1,250
Printed at: 1:2,000

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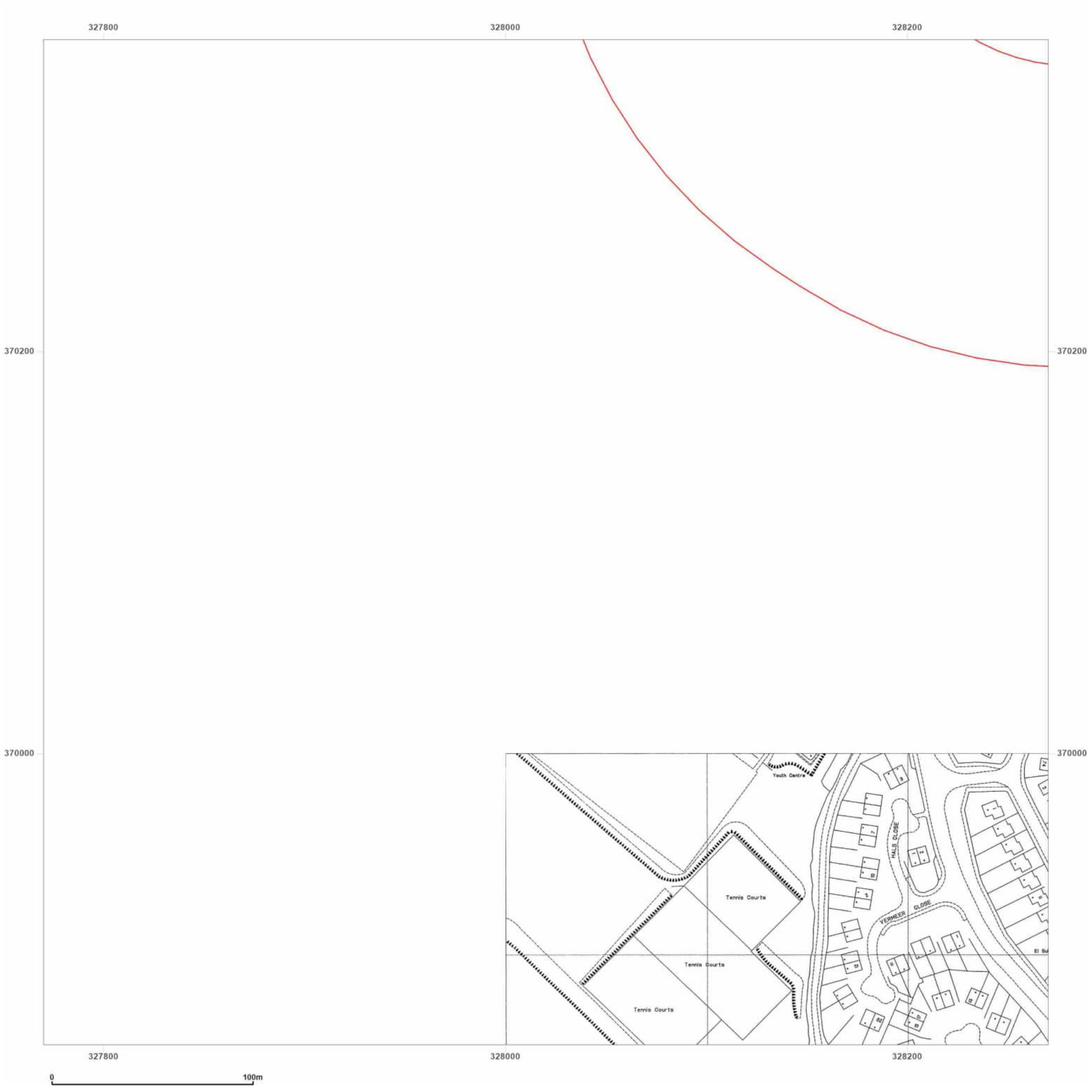
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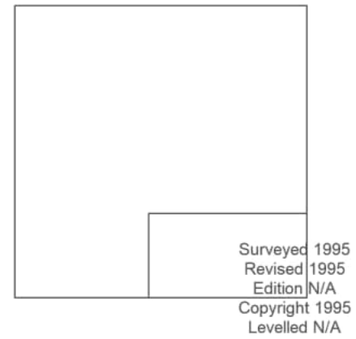
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Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1995
Scale: 1:1,250
Printed at: 1:2,000

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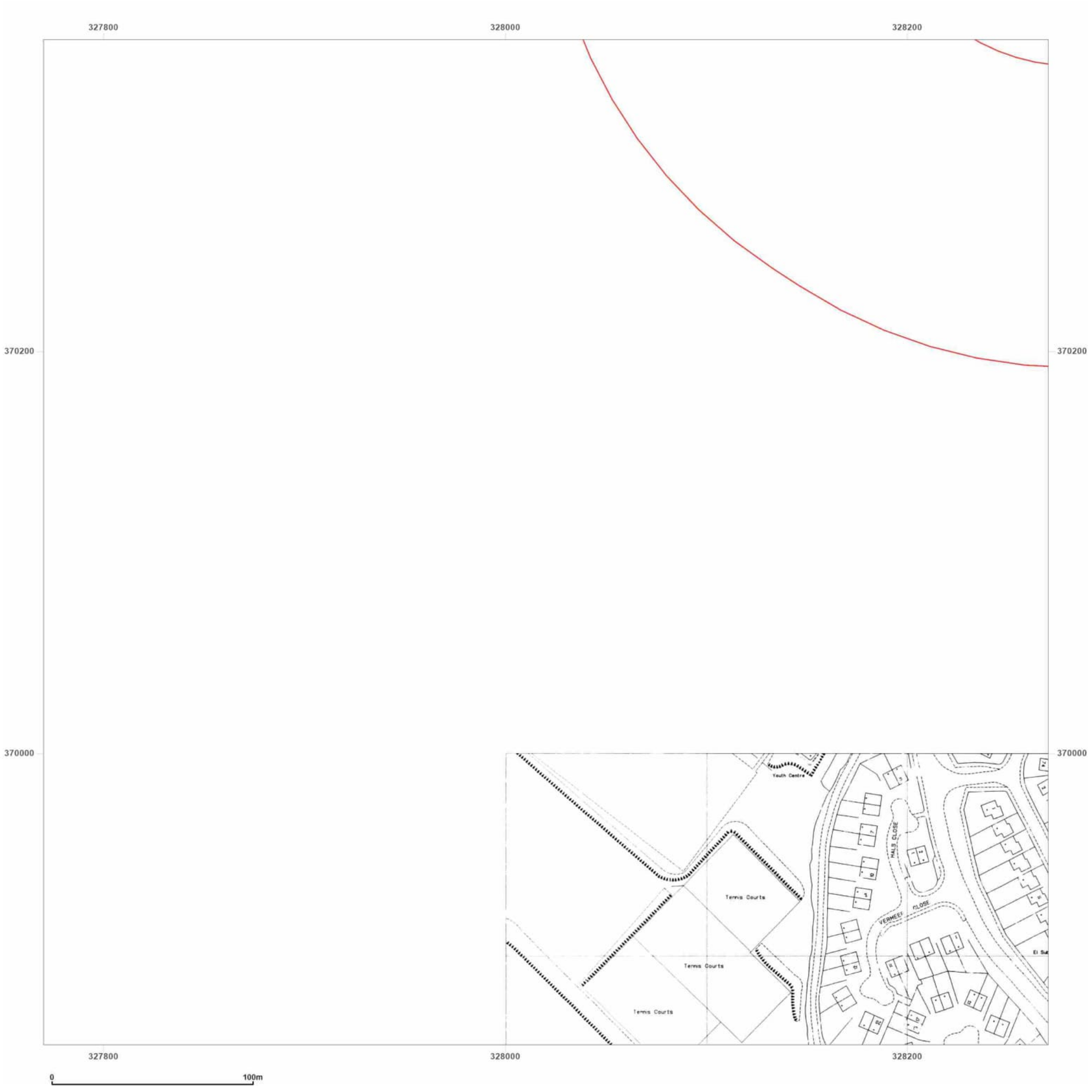
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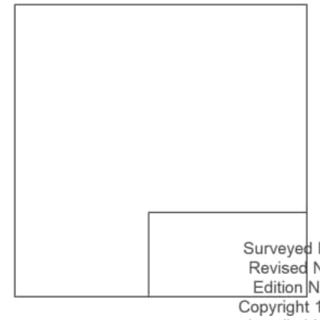
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Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1995
Scale: 1:1,250
Printed at: 1:2,000

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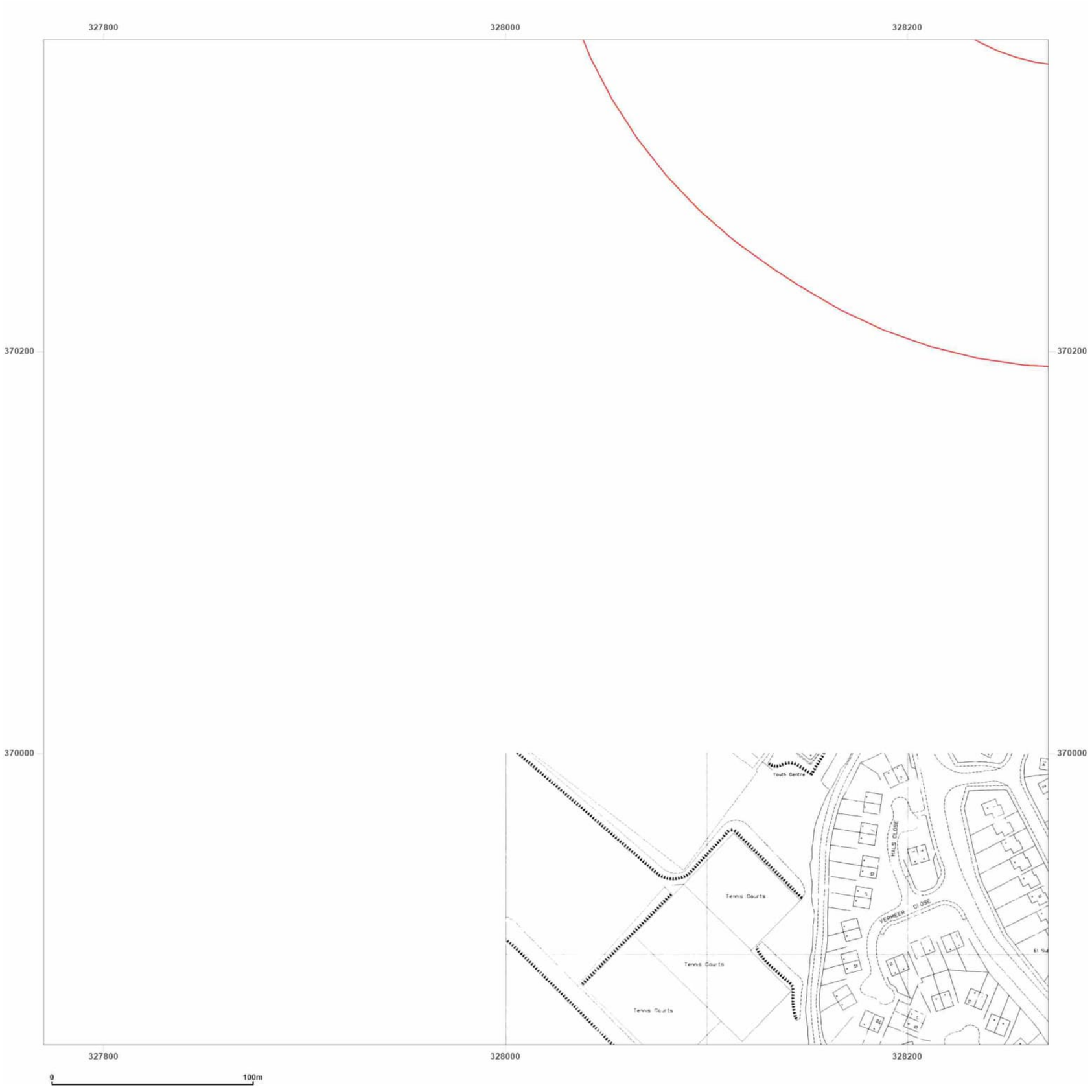
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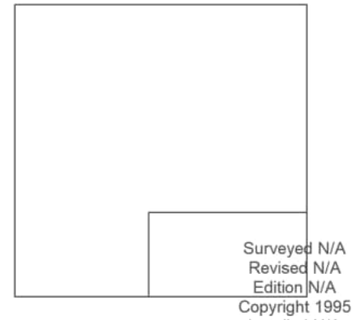
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Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1995
Scale: 1:1,250
Printed at: 1:2,000

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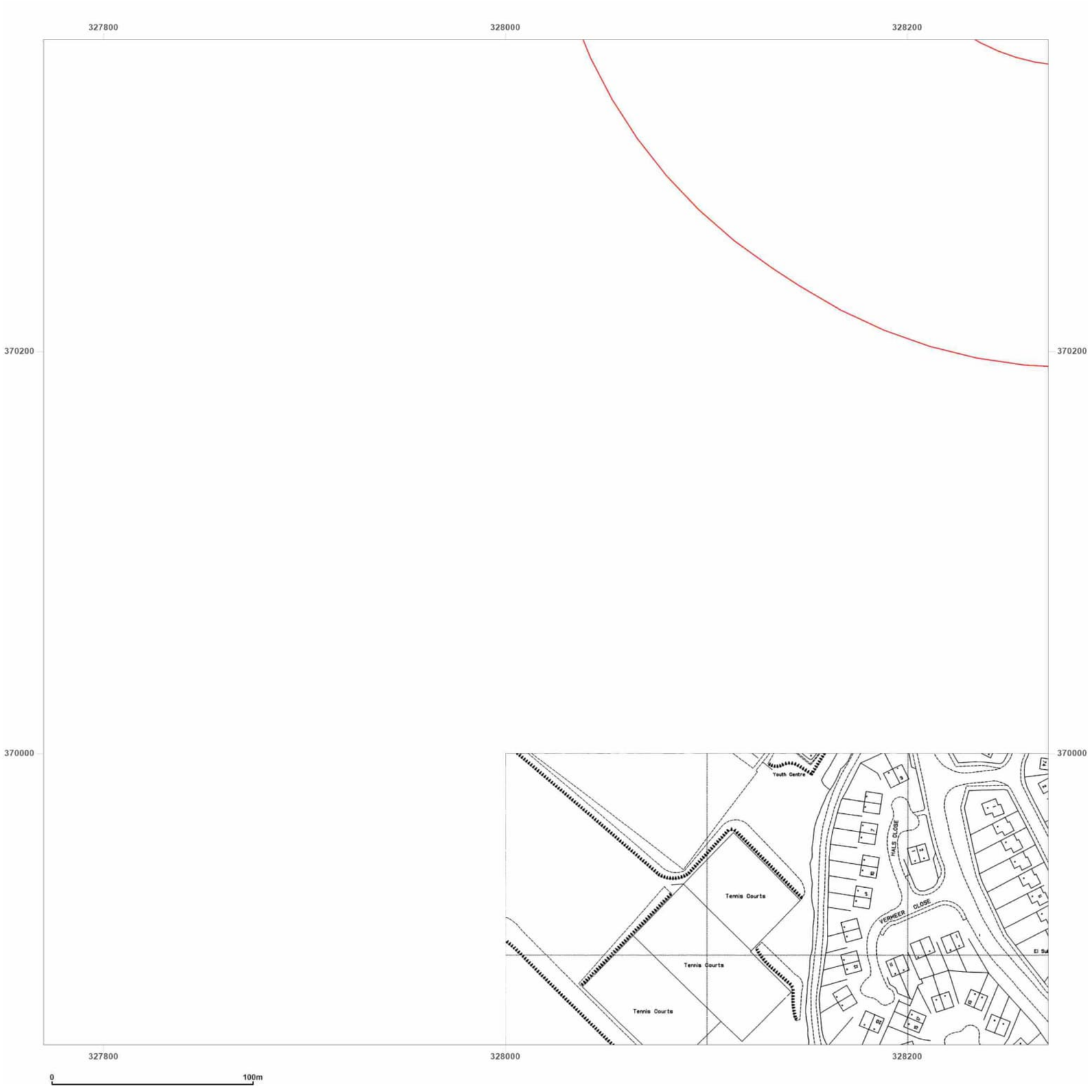
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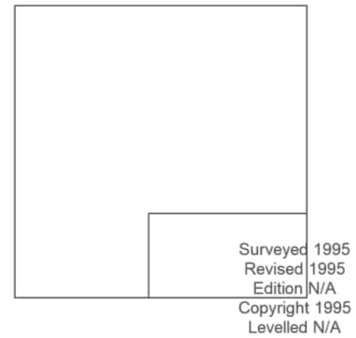
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_1
Grid Ref: 328020, 370105

Map Name: National Grid
Map date: 1995
Scale: 1:1,250
Printed at: 1:2,000

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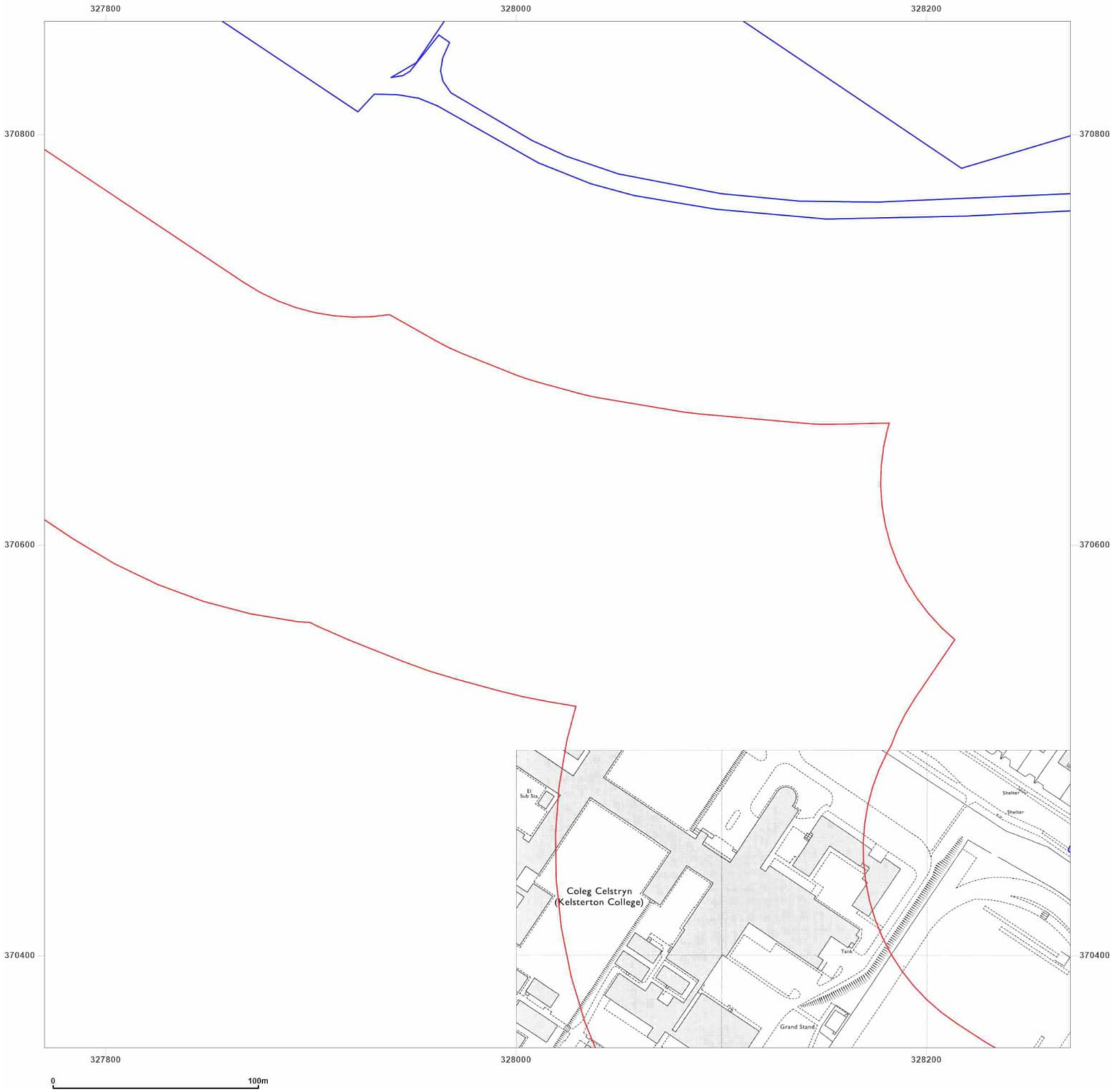
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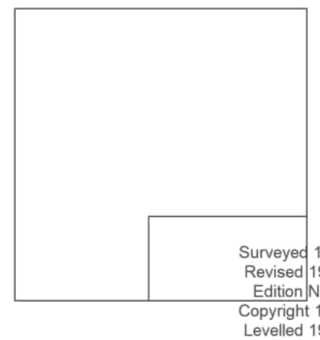
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_2
Grid Ref: 328020, 370605

Map Name: National Grid
Map date: **1979**
Scale: 1:1,250
Printed at: 1:2,000

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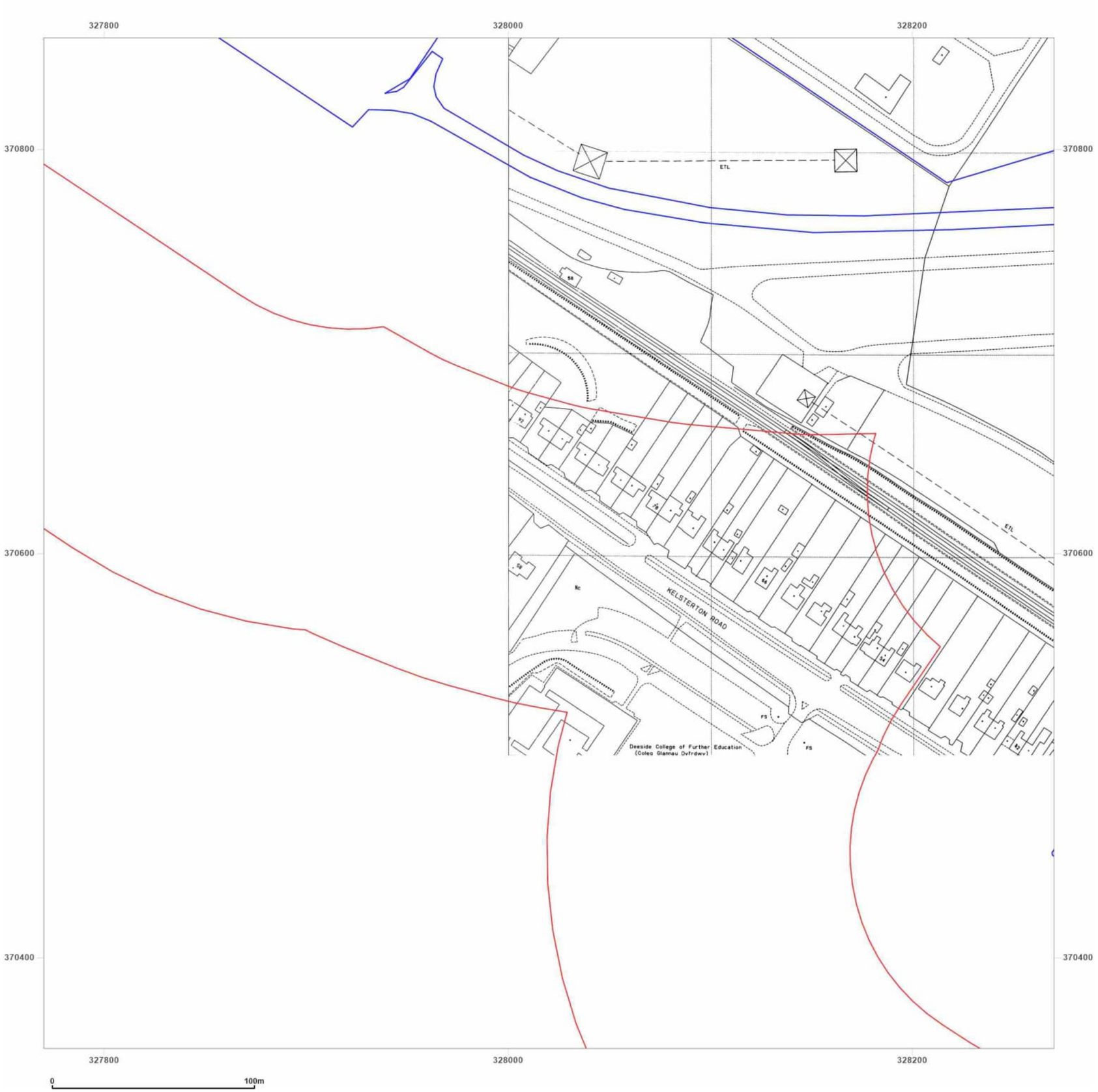
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_7_2
Grid Ref: 328020, 370605

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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Revised N/A
Edition N/A
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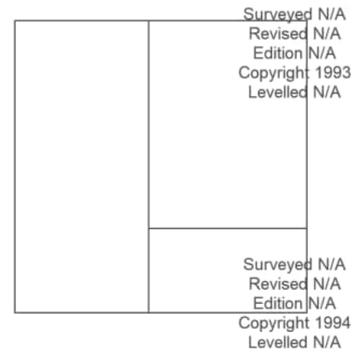
Site Details:

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Report Ref: GSIP-2023-13855-17626_1250_7_2
Grid Ref: 328020, 370605

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1979**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1978 Revised 1978 Edition N/A Copyright 1979 Levelled 1959	Surveyed 1978 Revised 1978 Edition N/A Copyright 1979 Levelled 1959

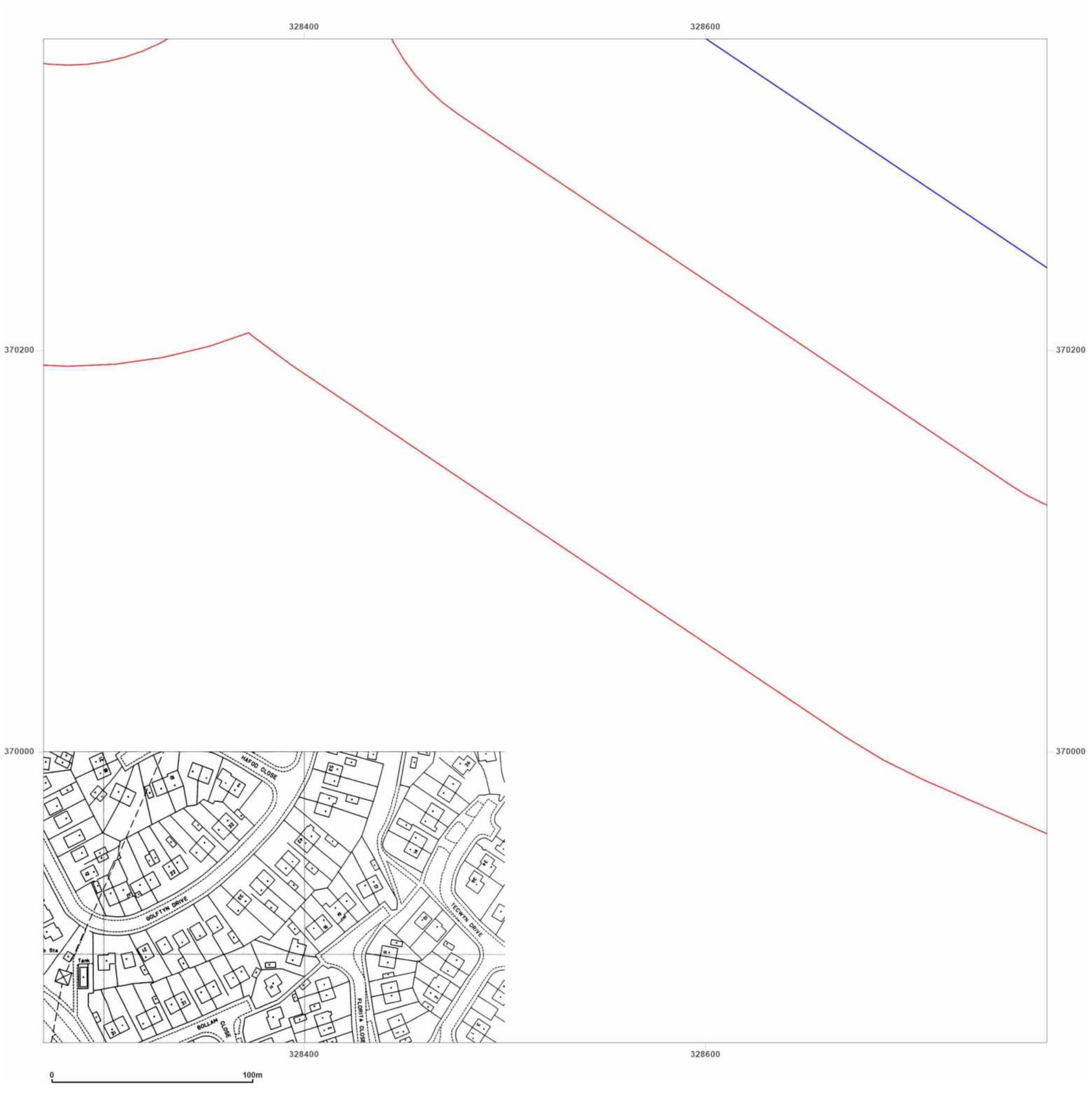
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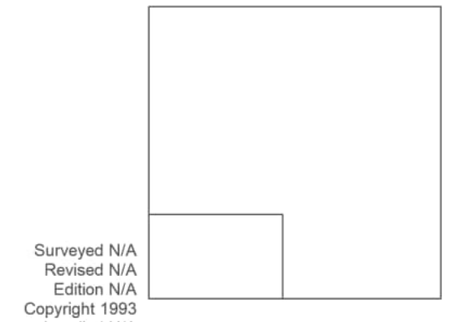
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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Edition N/A
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1992-1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
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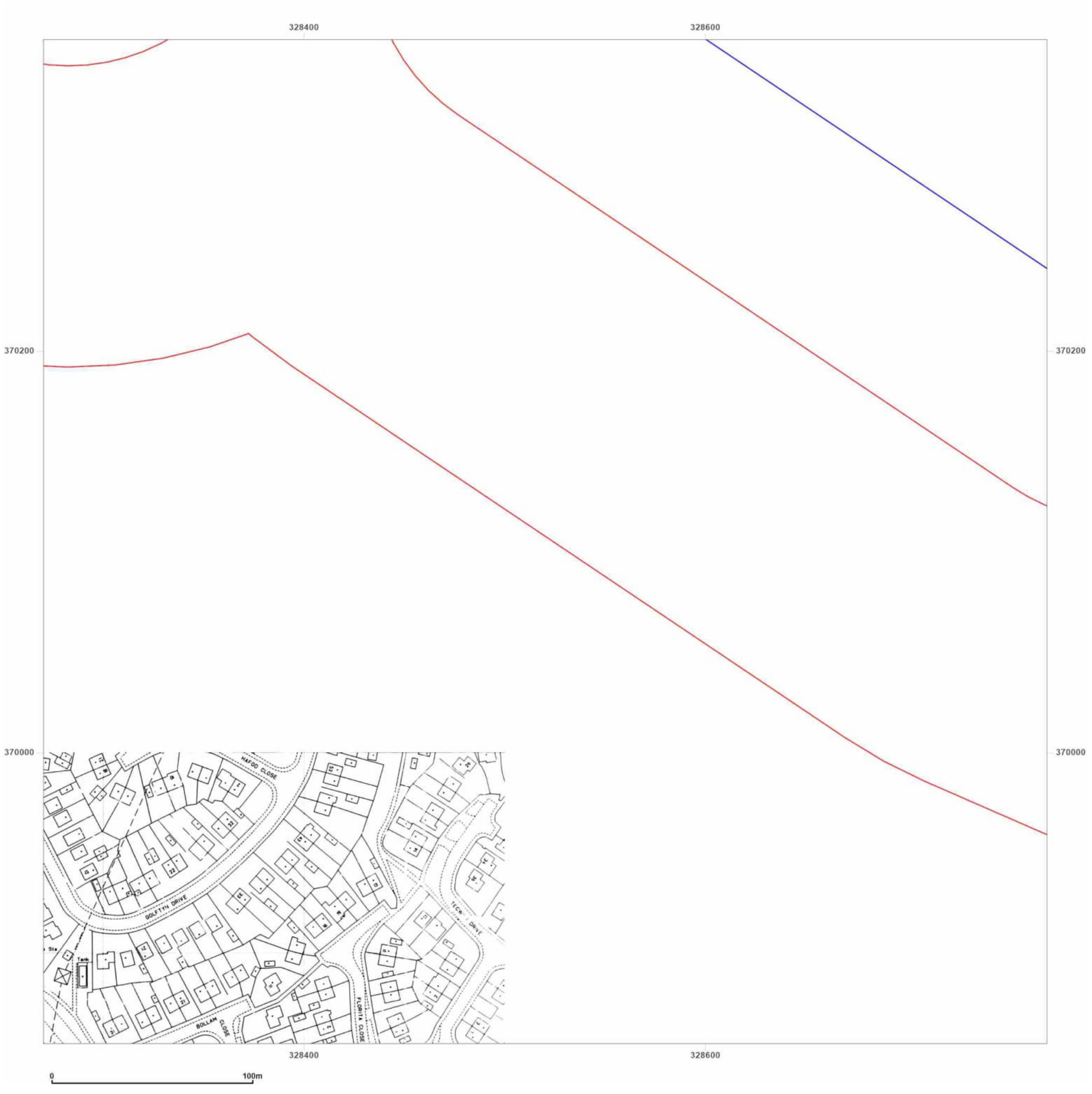
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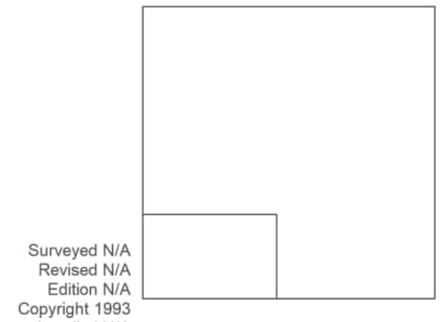
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Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1991-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A
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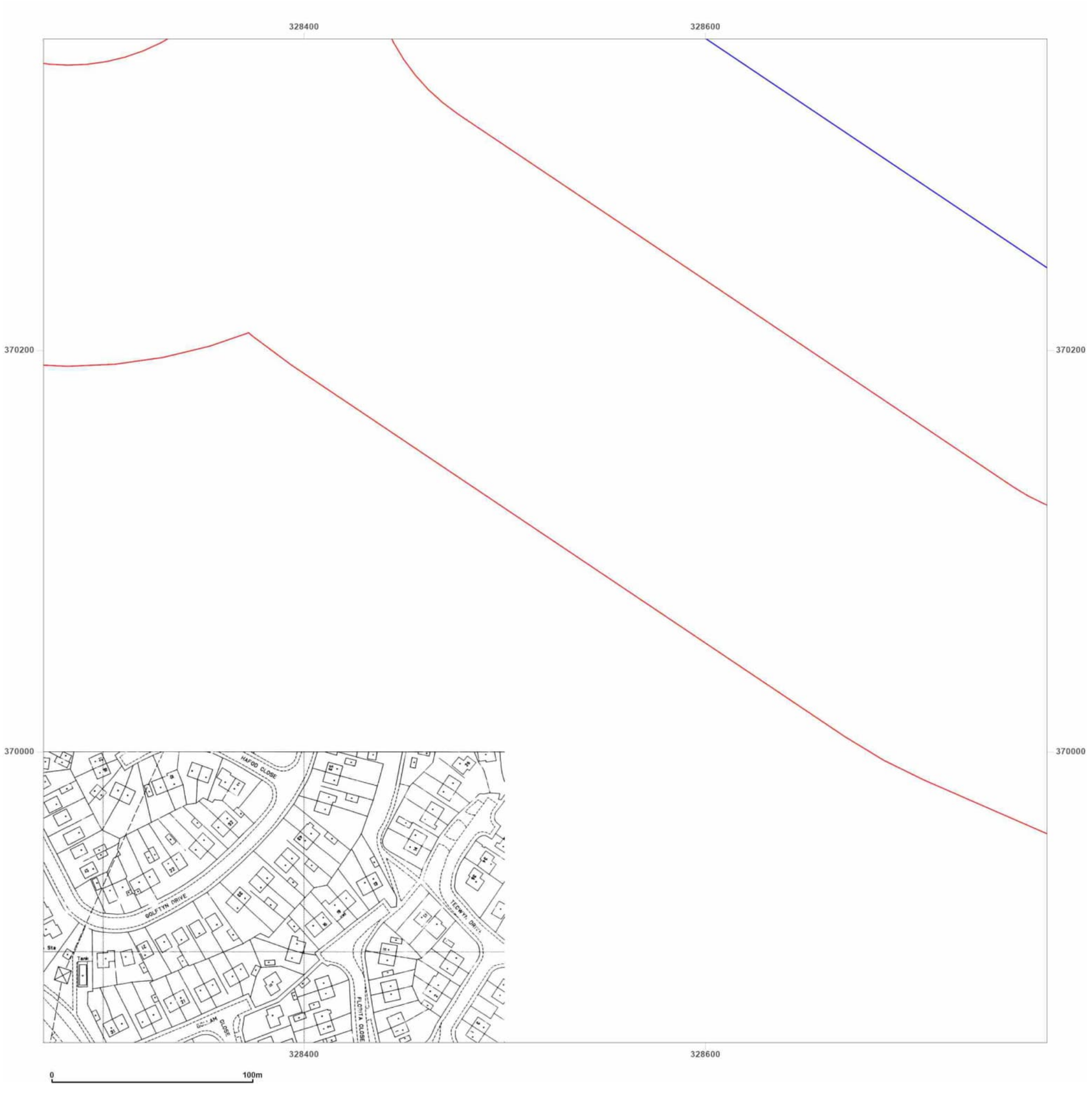
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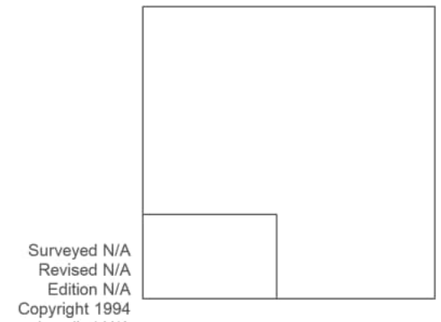
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Report Ref: GSIP-2023-13855-17626_1250_8_1
Grid Ref: 328520, 370105

Map Name: National Grid
Map date: 1994
Scale: 1:1,250
Printed at: 1:2,000

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

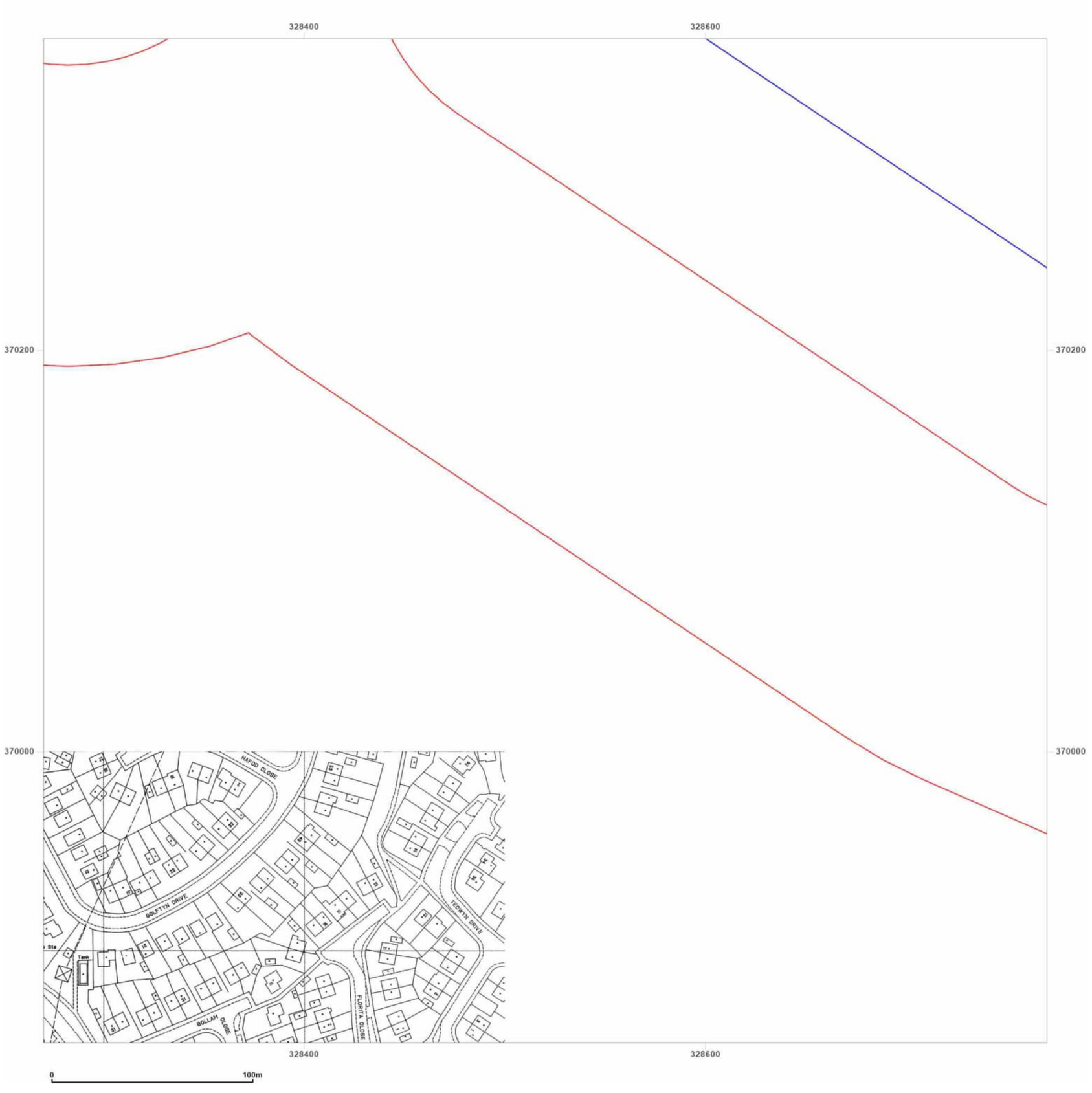
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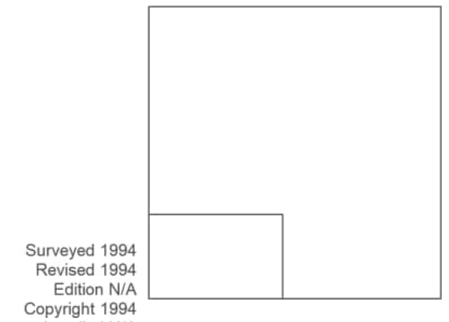
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Grid Ref: 328520, 370105

Map Name: National Grid
Map date: 1994
Scale: 1:1,250
Printed at: 1:2,000

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Revised 1994
Edition N/A
Copyright 1994
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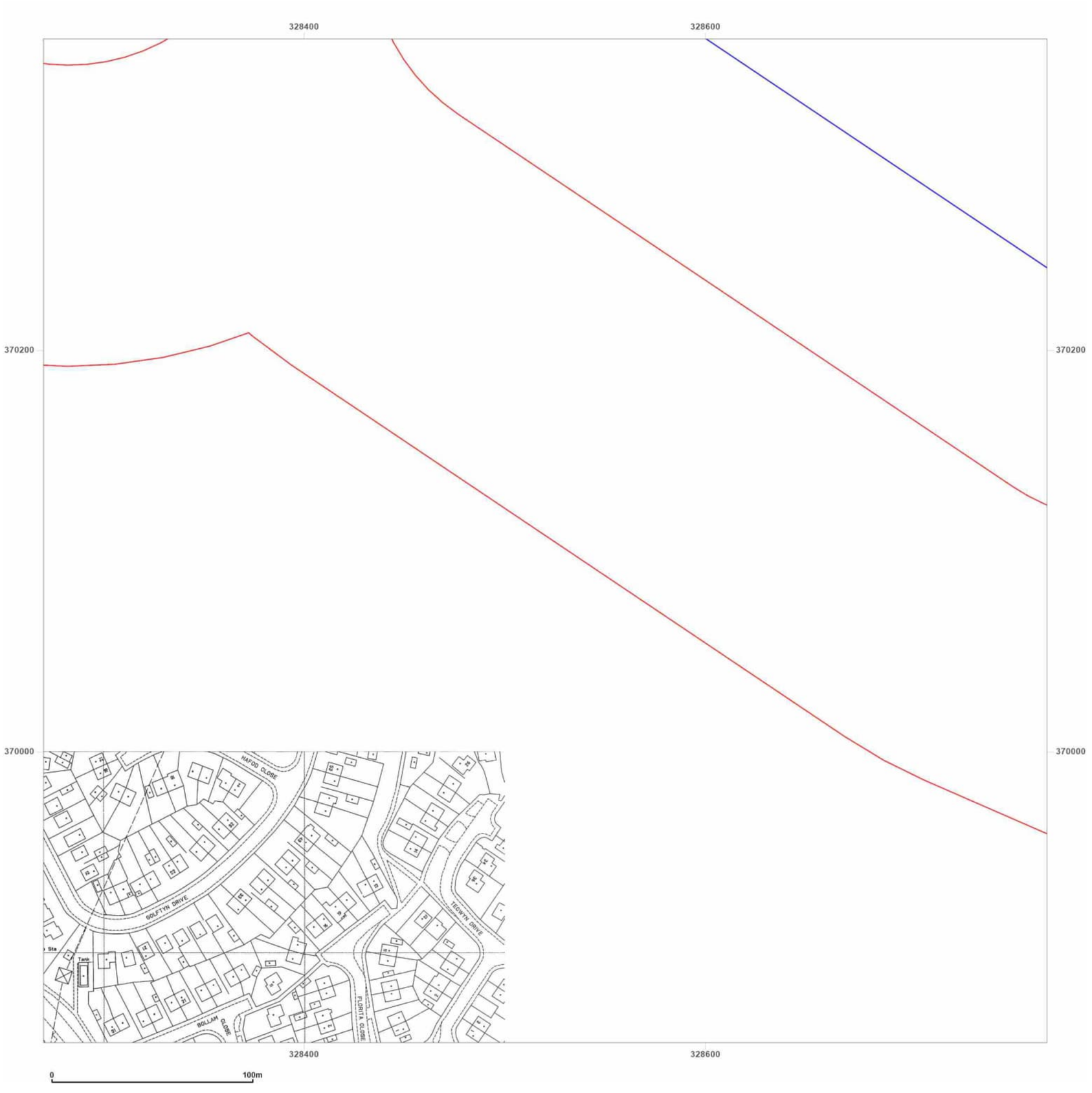
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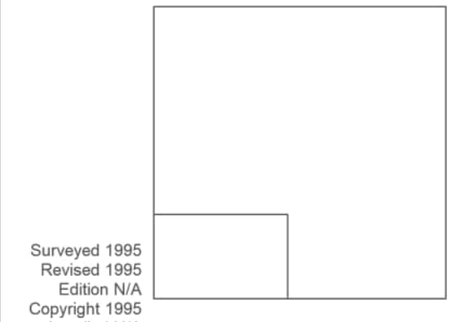
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Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1995**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1995
Revised 1995
Edition N/A
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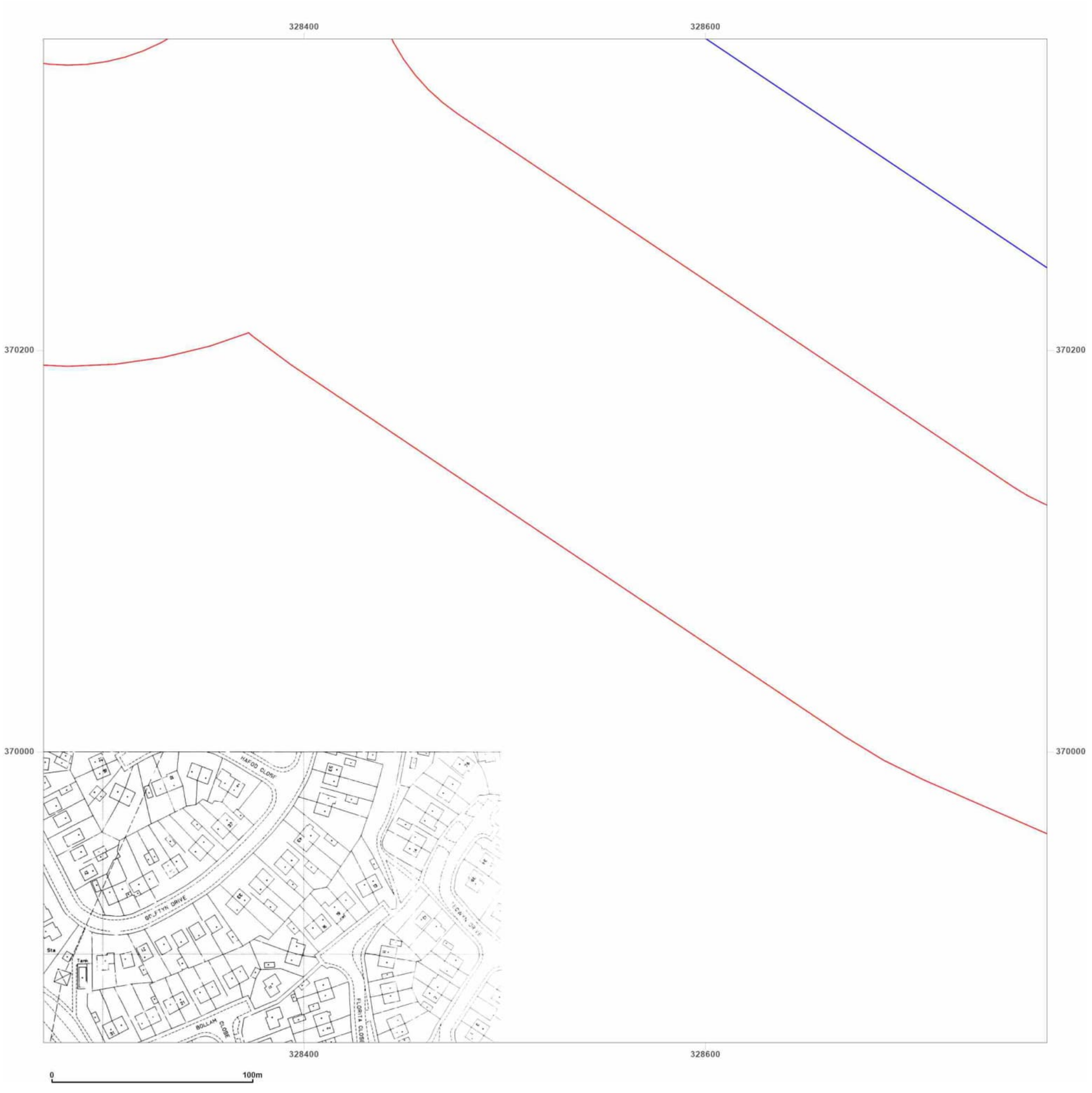
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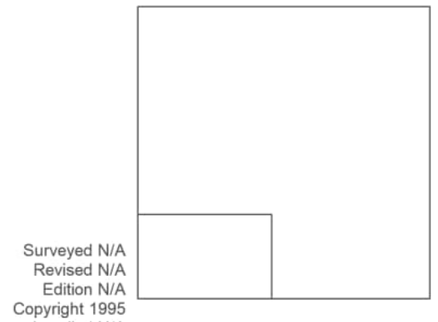
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Grid Ref: 328520, 370105

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Map date: **1995**
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Edition N/A
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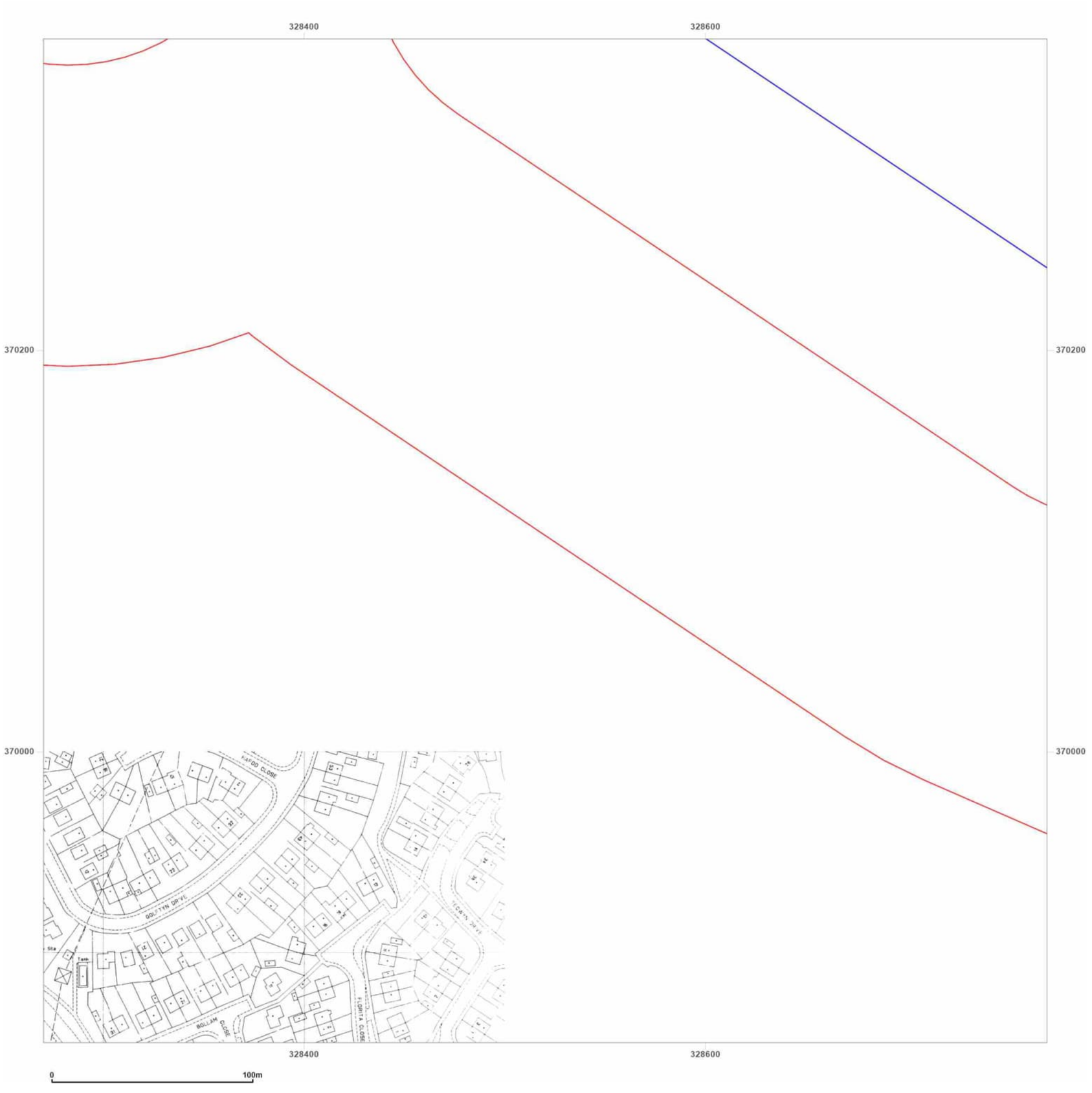
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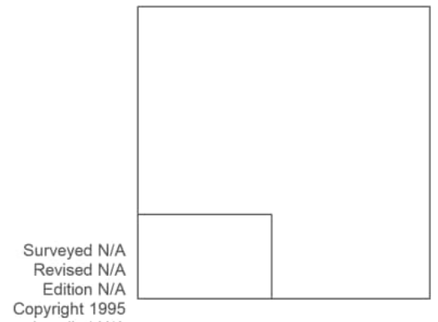
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Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1995**
Scale: 1:1,250
Printed at: 1:2,000

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

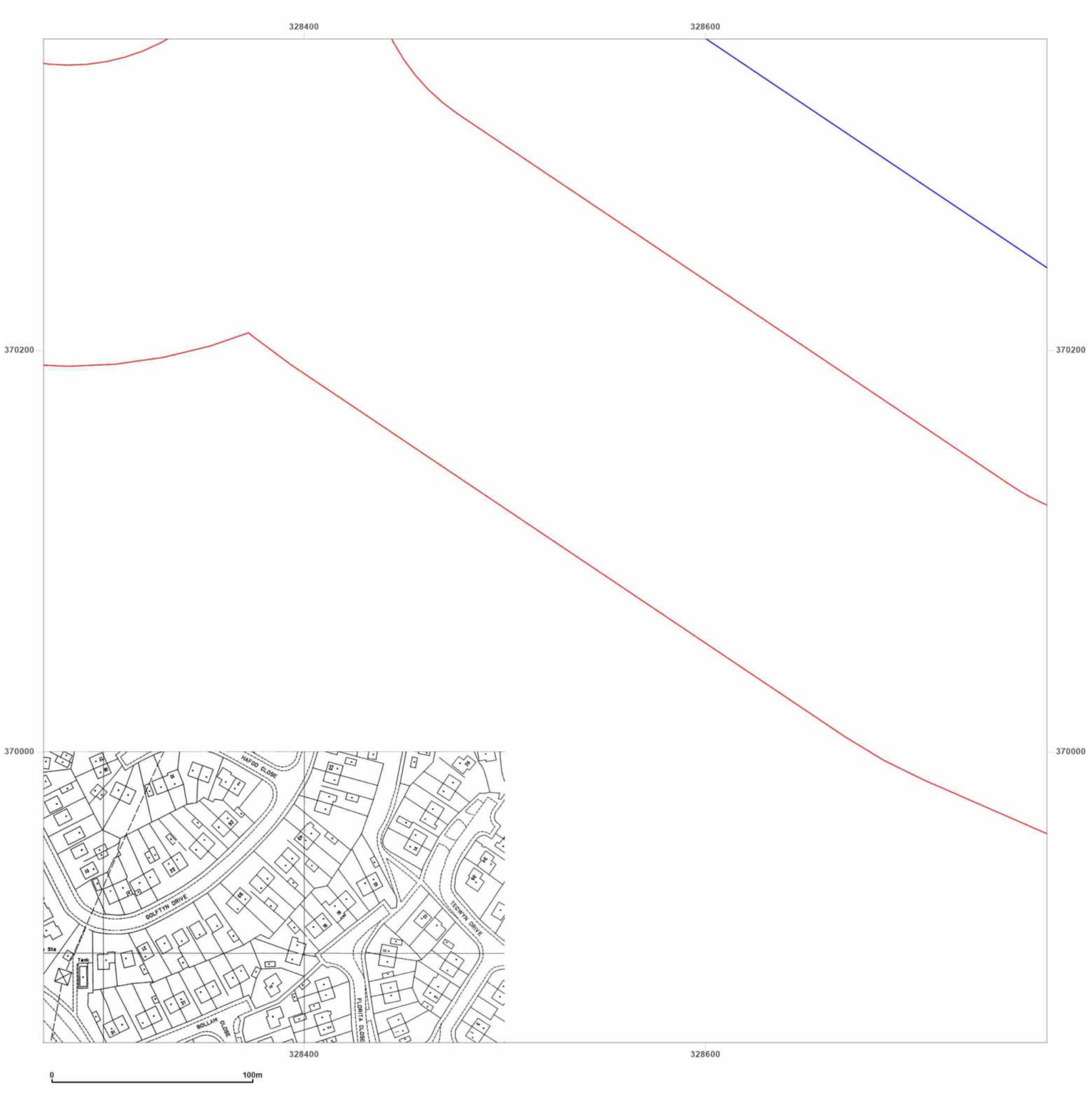
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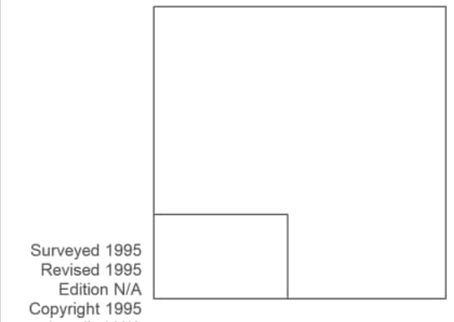
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Grid Ref: 328520, 370105

Map Name: National Grid
Map date: **1995**
Scale: 1:1,250
Printed at: 1:2,000

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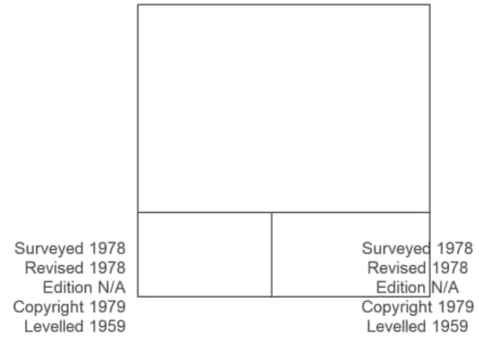
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Grid Ref: 328520, 370605

Map Name: National Grid
Map date: 1979
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_2
Grid Ref: 328520, 370605

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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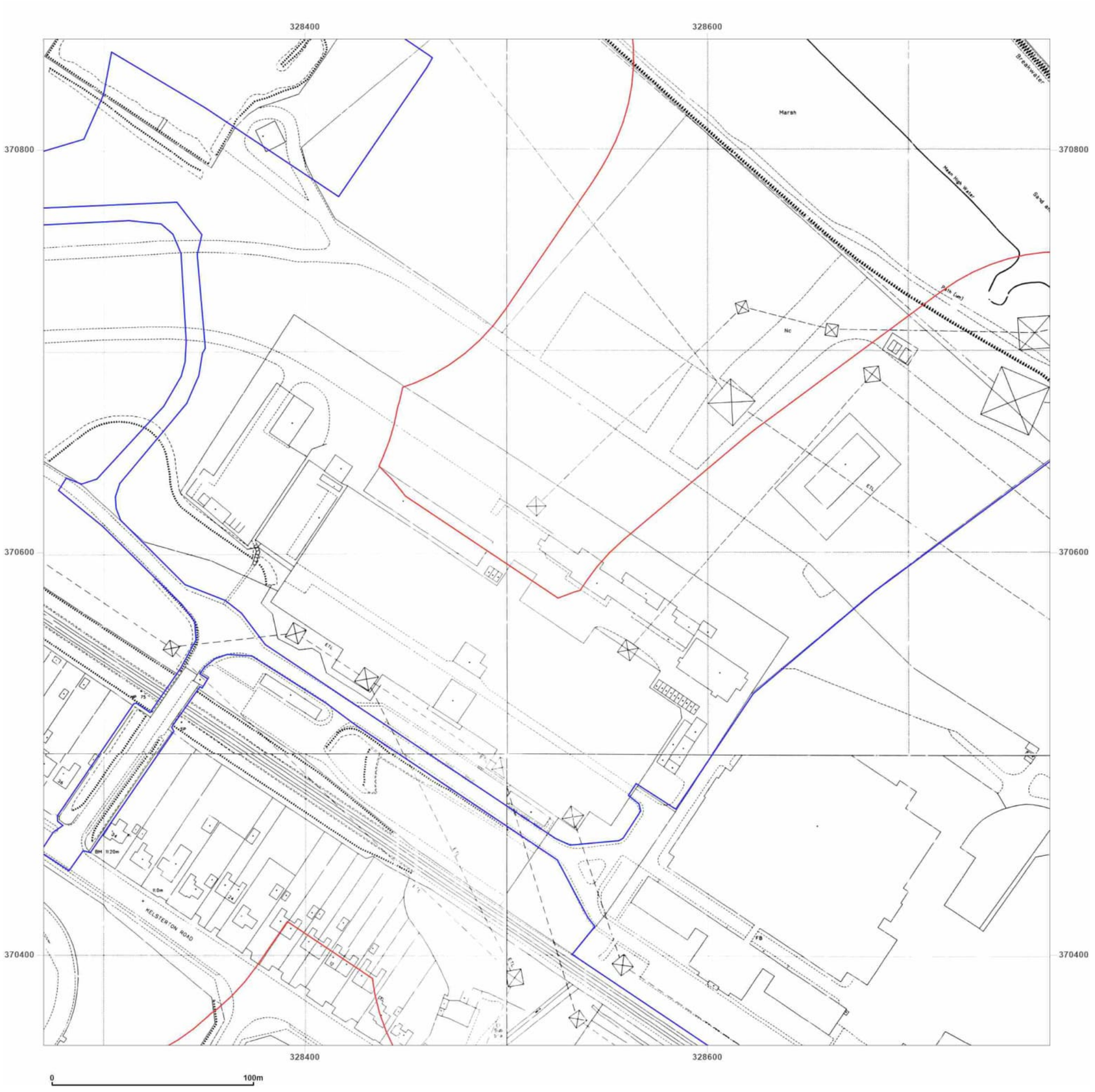
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Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_2
Grid Ref: 328520, 370605

Map Name: National Grid
Map date: **1993-1995**
Scale: 1:1,250
Printed at: 1:2,000

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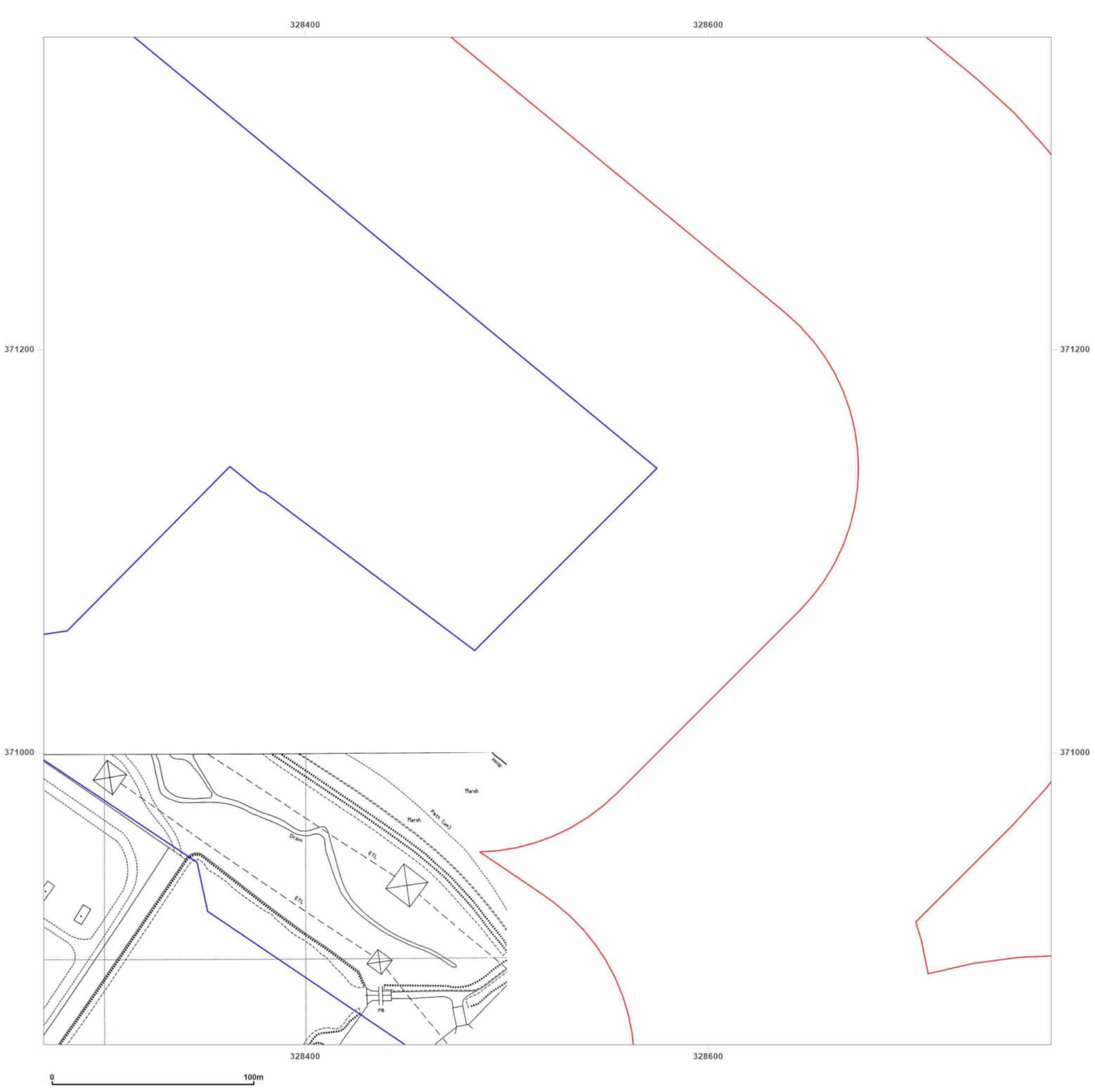
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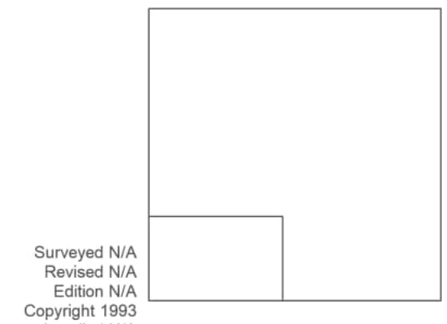
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Report Ref: GSIP-2023-13855-17626_1250_8_3
Grid Ref: 328520, 371105

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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

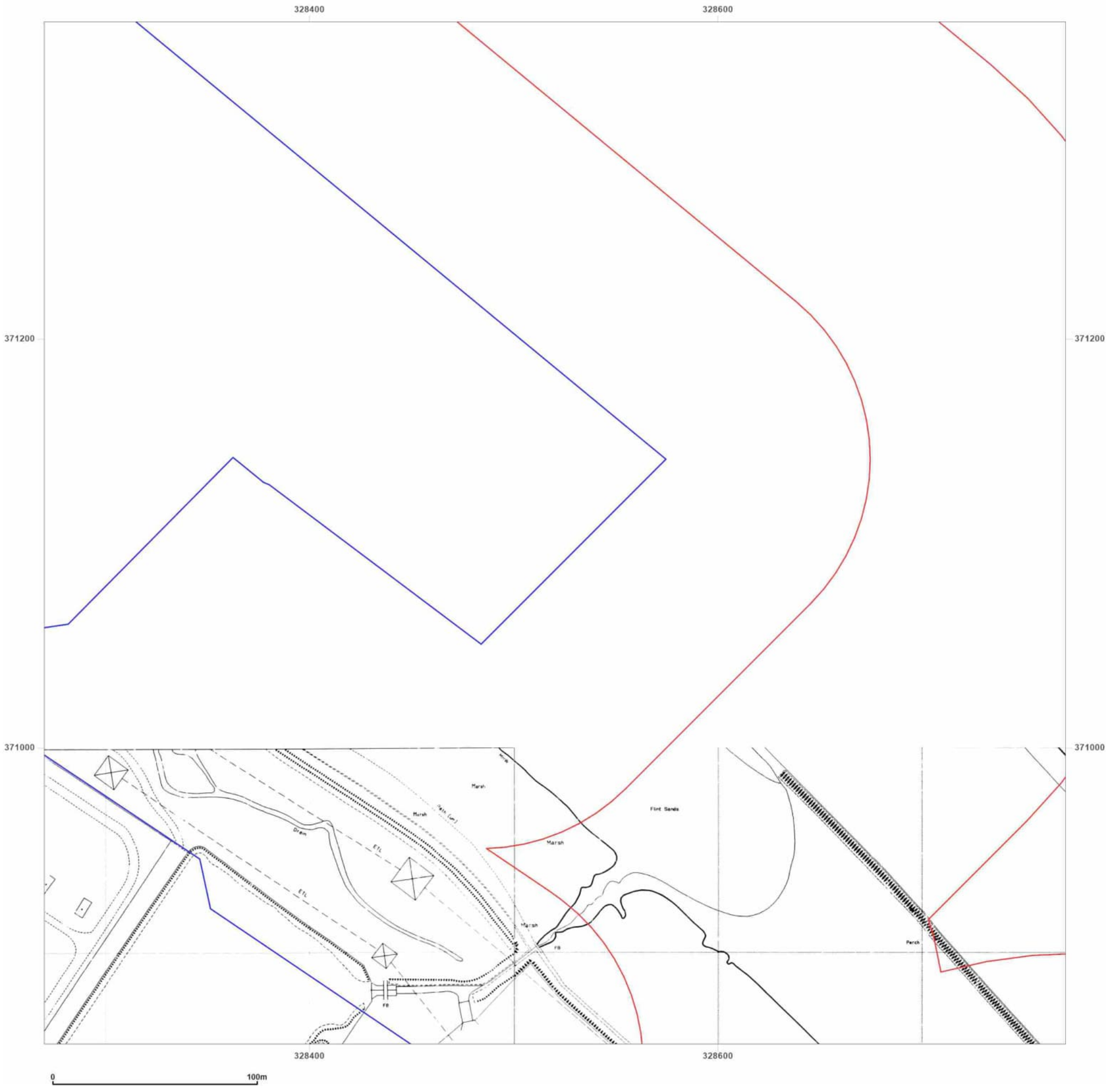
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_8_3
Grid Ref: 328520, 371105

Map Name: National Grid
Map date: **1993-1995**
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_9_1
Grid Ref: 329020, 370105

Map Name: National Grid
Map date: **1979-1980**
Scale: 1:1,250
Printed at: 1:2,000

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Edition N/A
Copyright 1979
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Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_1250_9_1
Grid Ref: 329020, 370105

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed N/A
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Revised 1988
Edition N/A
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Levelled 1959

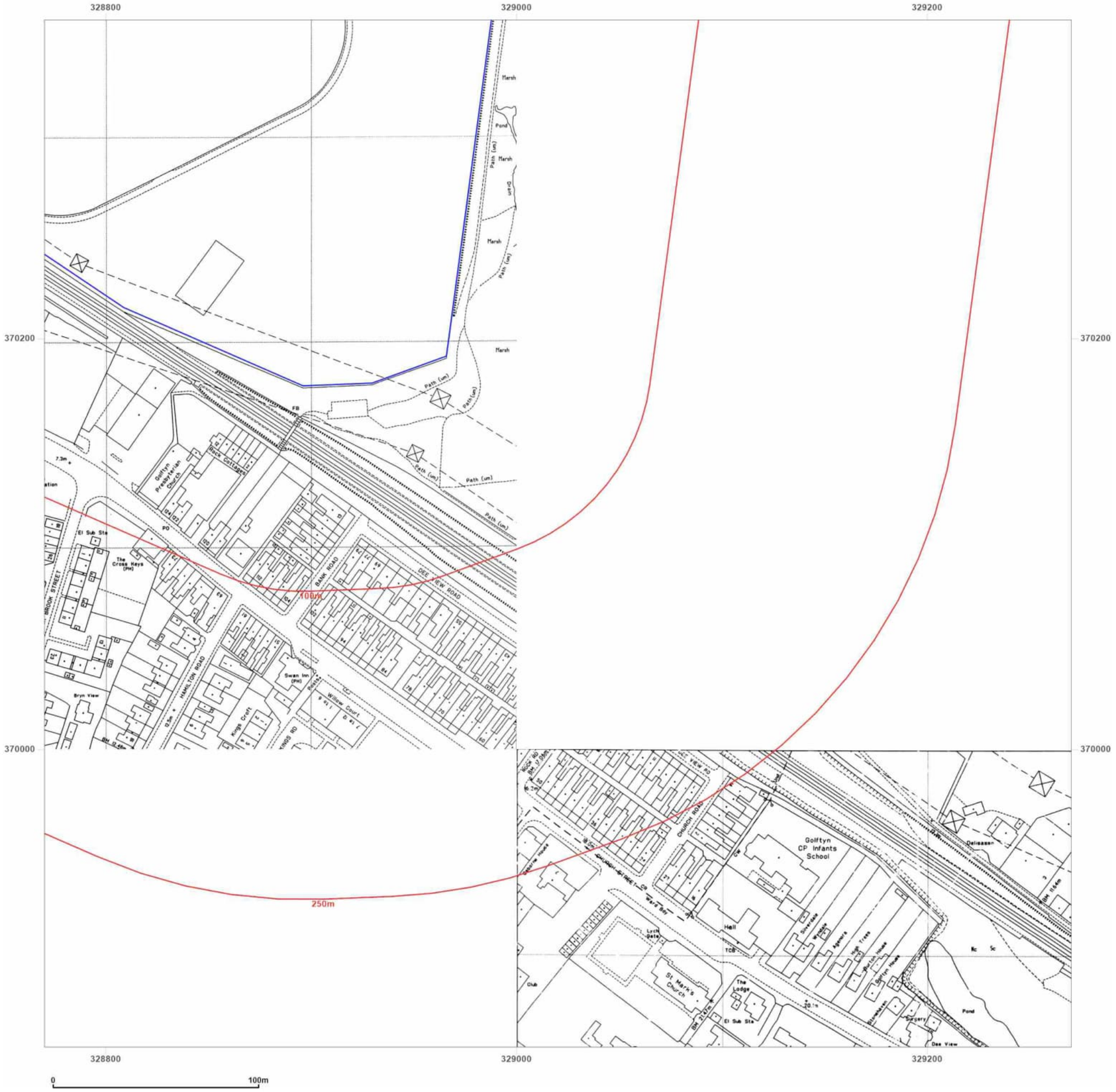
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Site Details:

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Report Ref: GSIP-2023-13855-17626_1250_9_1
Grid Ref: 329020, 370105

Map Name: National Grid
Map date: **1992-1993**
Scale: 1:1,250
Printed at: 1:2,000

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Revised N/A
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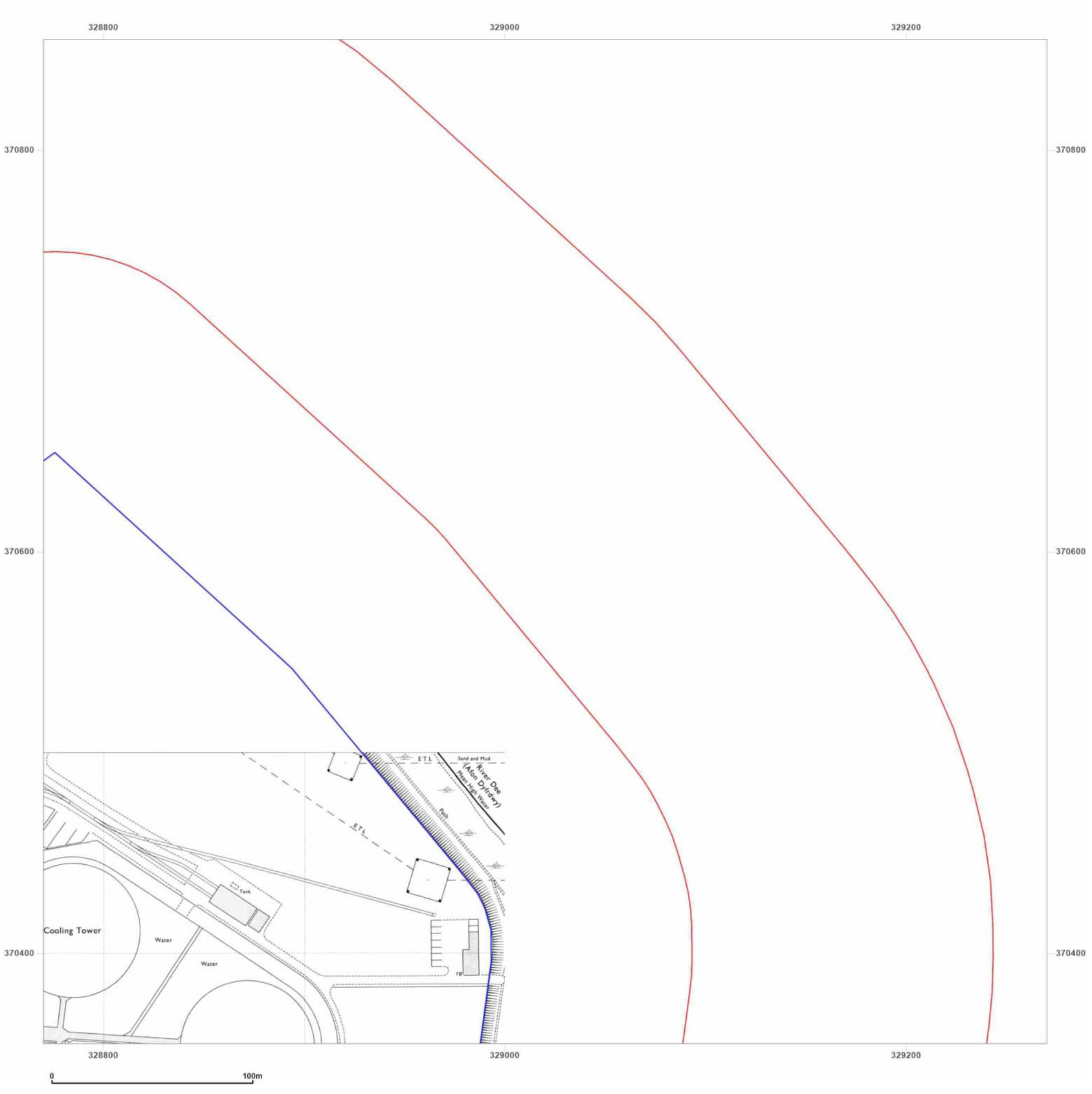
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Report Ref: GSIP-2023-13855-17626_1250_9_2
Grid Ref: 329020, 370605

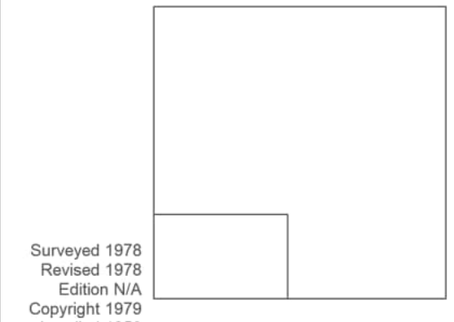
Map Name: National Grid

Map date: **1979**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1978
Edition N/A
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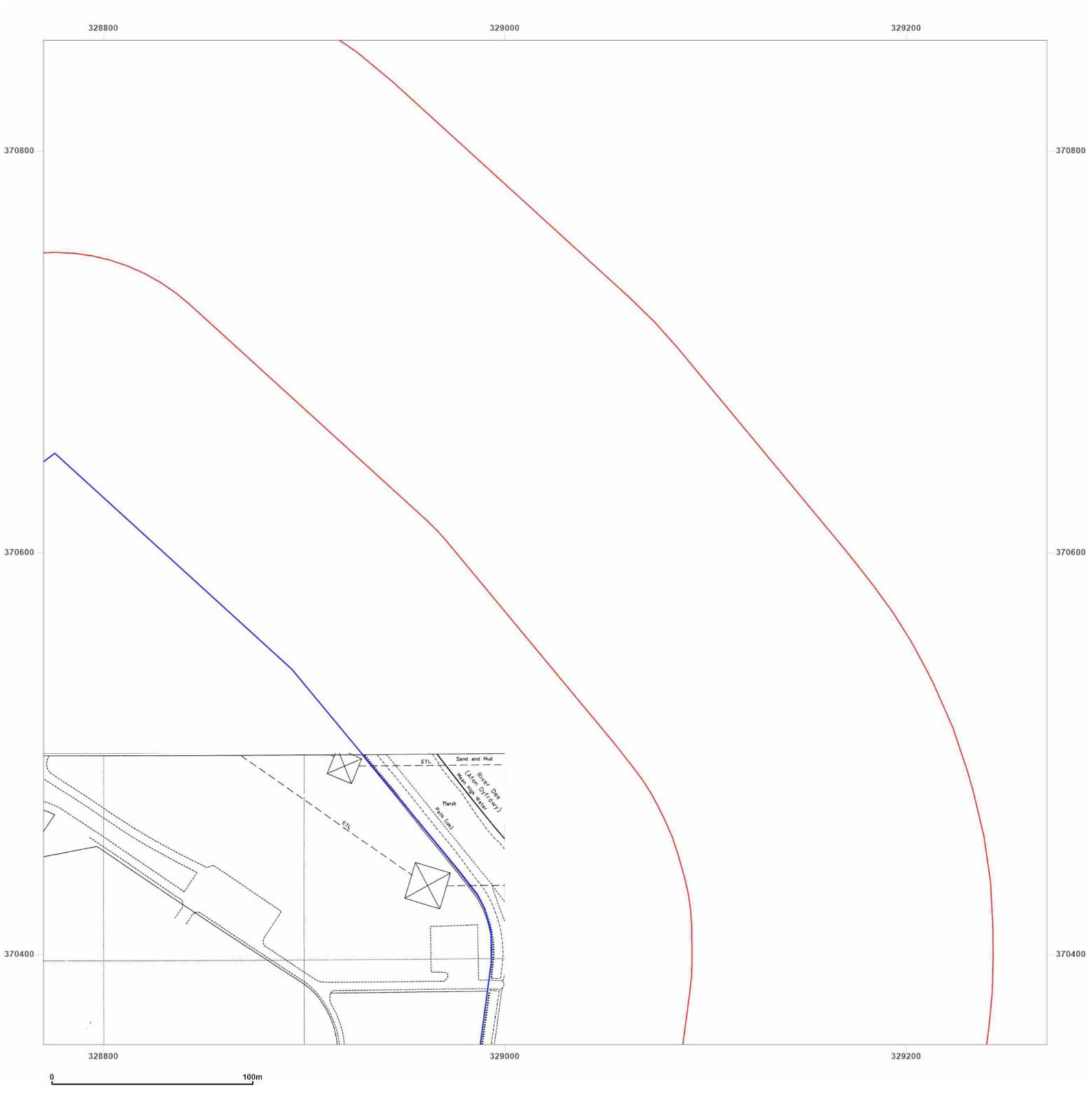
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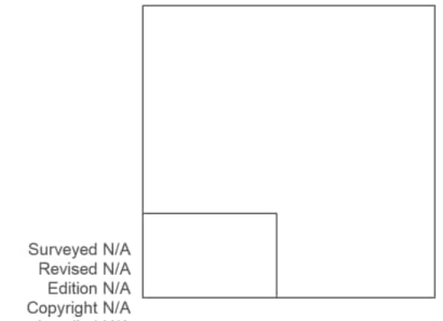
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Grid Ref: 329020, 370605

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000

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Edition N/A
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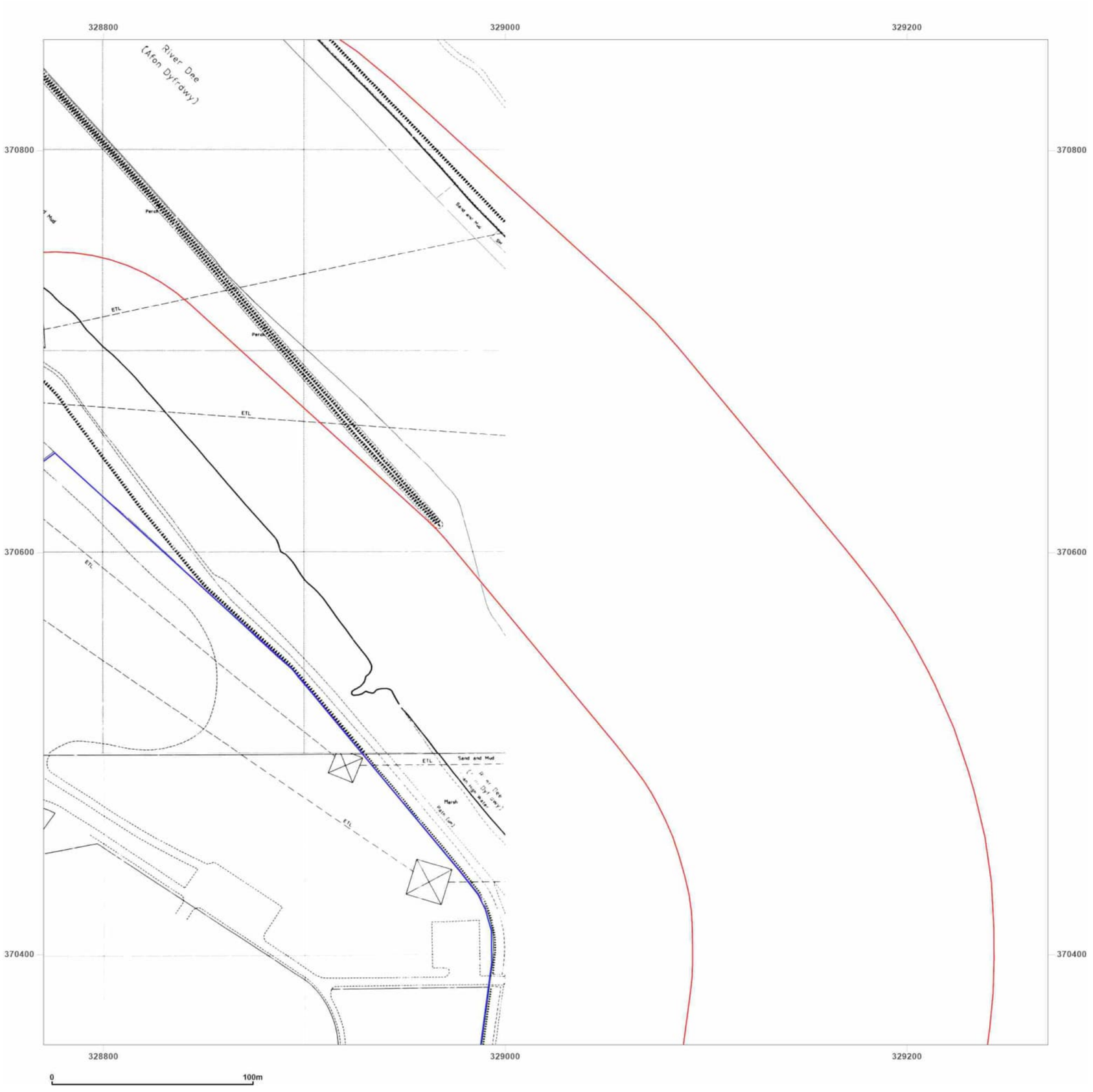
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Connors Quay Updated

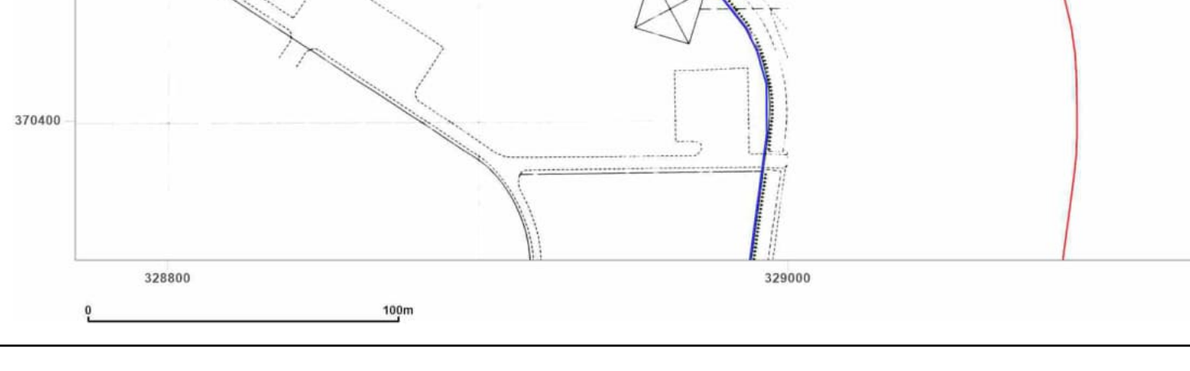
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Map Name: National Grid
Map date: **1993-1995**
Scale: 1:1,250
Printed at: 1:2,000

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Edition N/A
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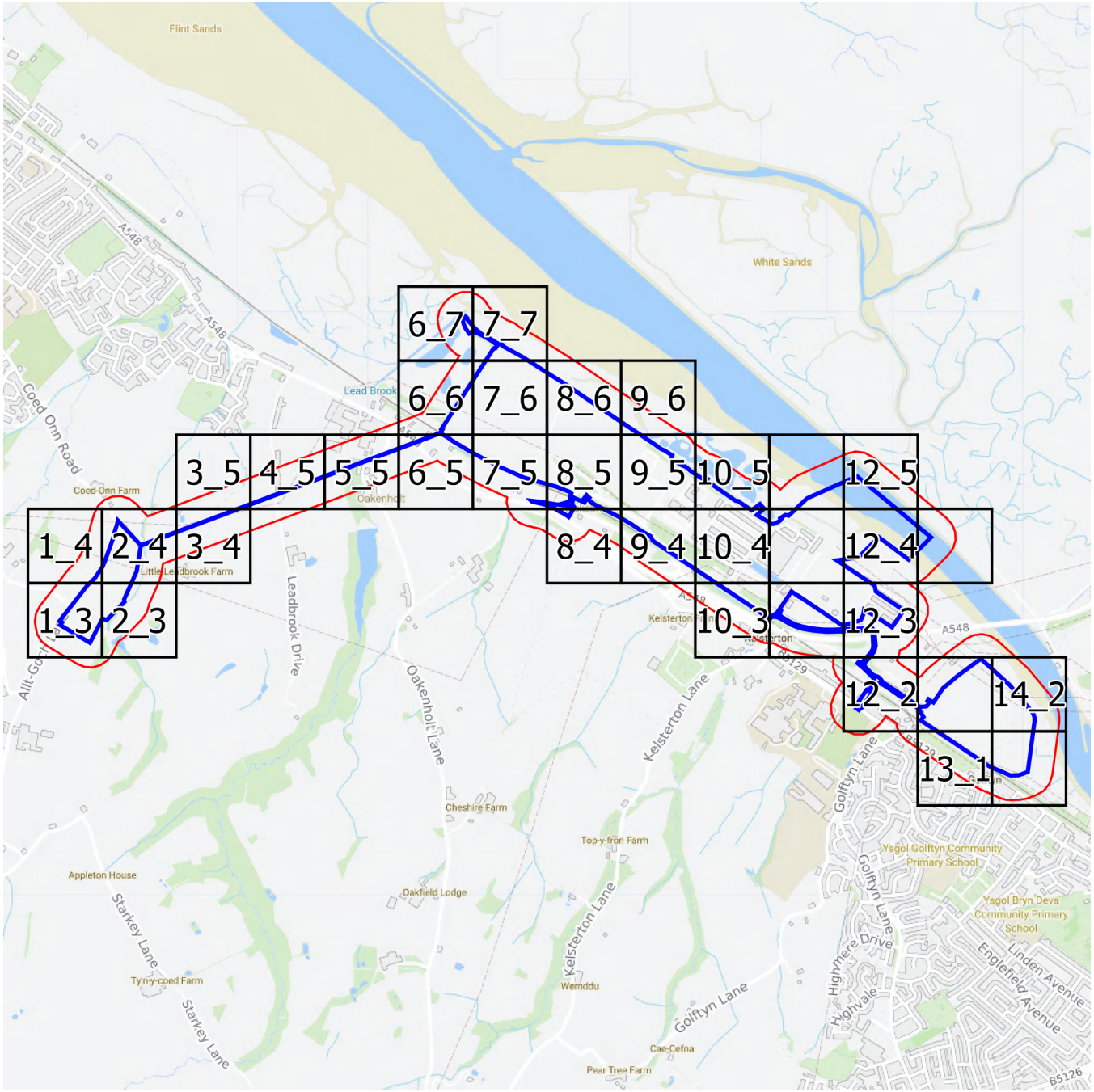
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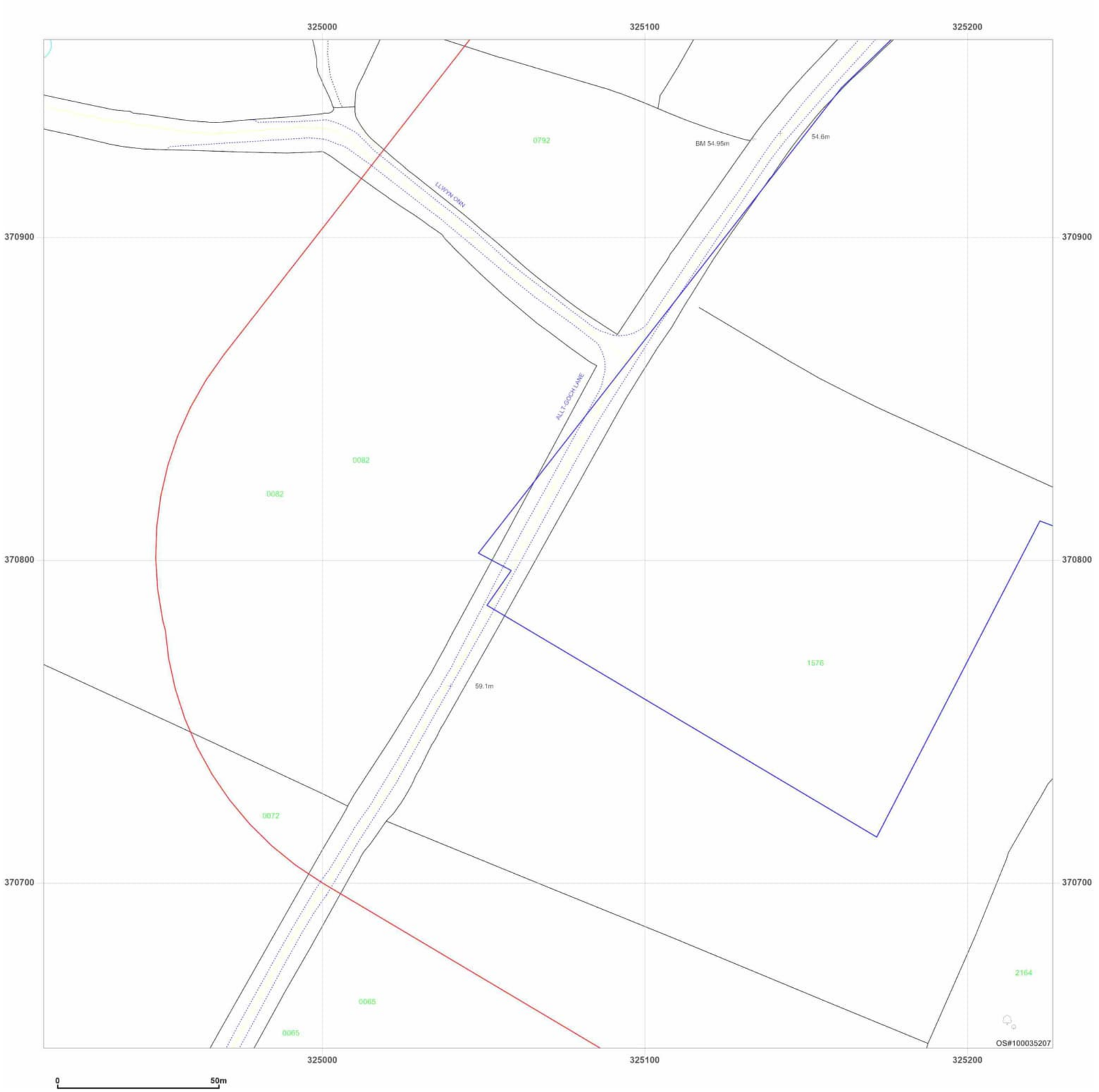
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Groundsure INSIGHTS

Landline Scale Grid Index

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Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_1_3
Grid Ref: 325070, 370805

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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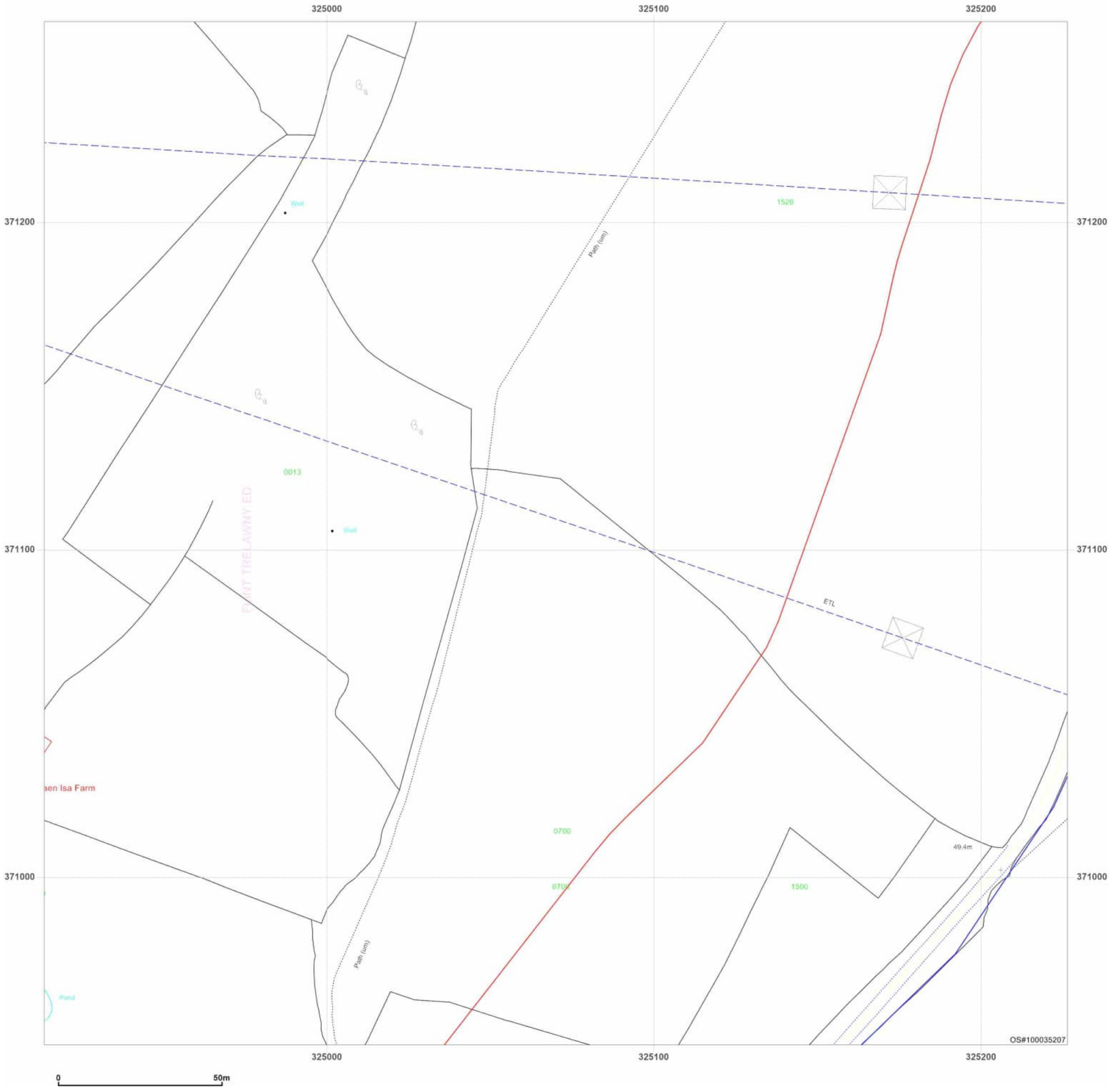
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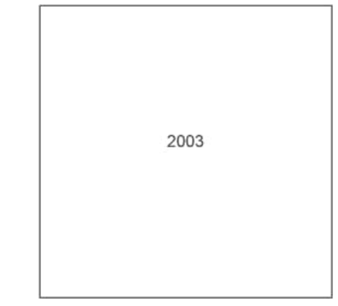
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Report Ref: GSIP-2023-13855-17626_Landline_1_4
Grid Ref: 325070, 371105

Map Name: LandLine
Map date: 2003
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Printed at: 1:1,250

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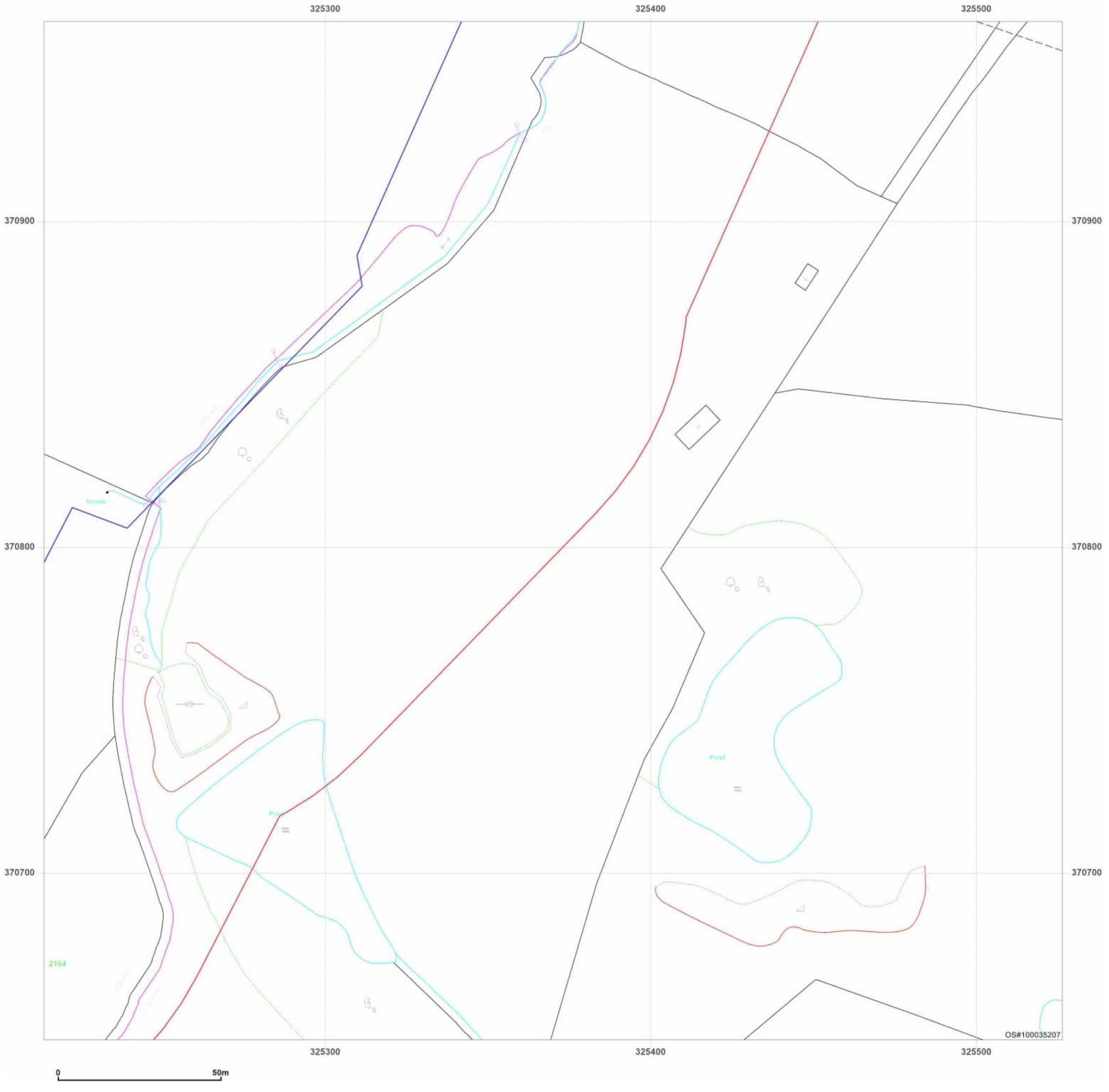
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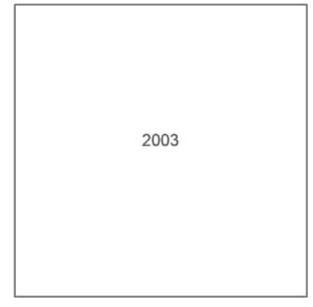
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Report Ref: GSIP-2023-13855-17626_Landline_2_3
Grid Ref: 325370, 370805

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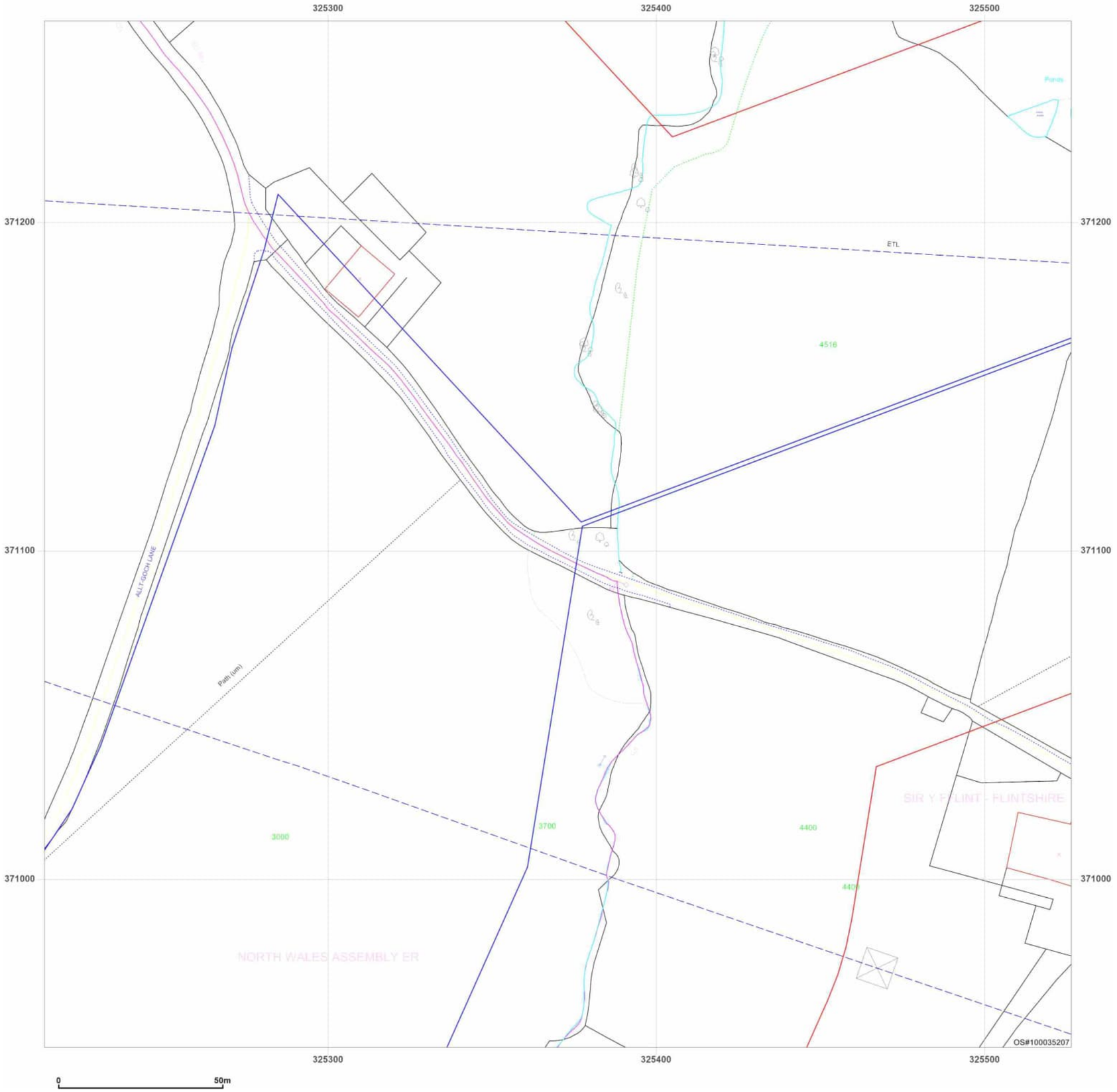
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_2_4
Grid Ref: 325370, 371105

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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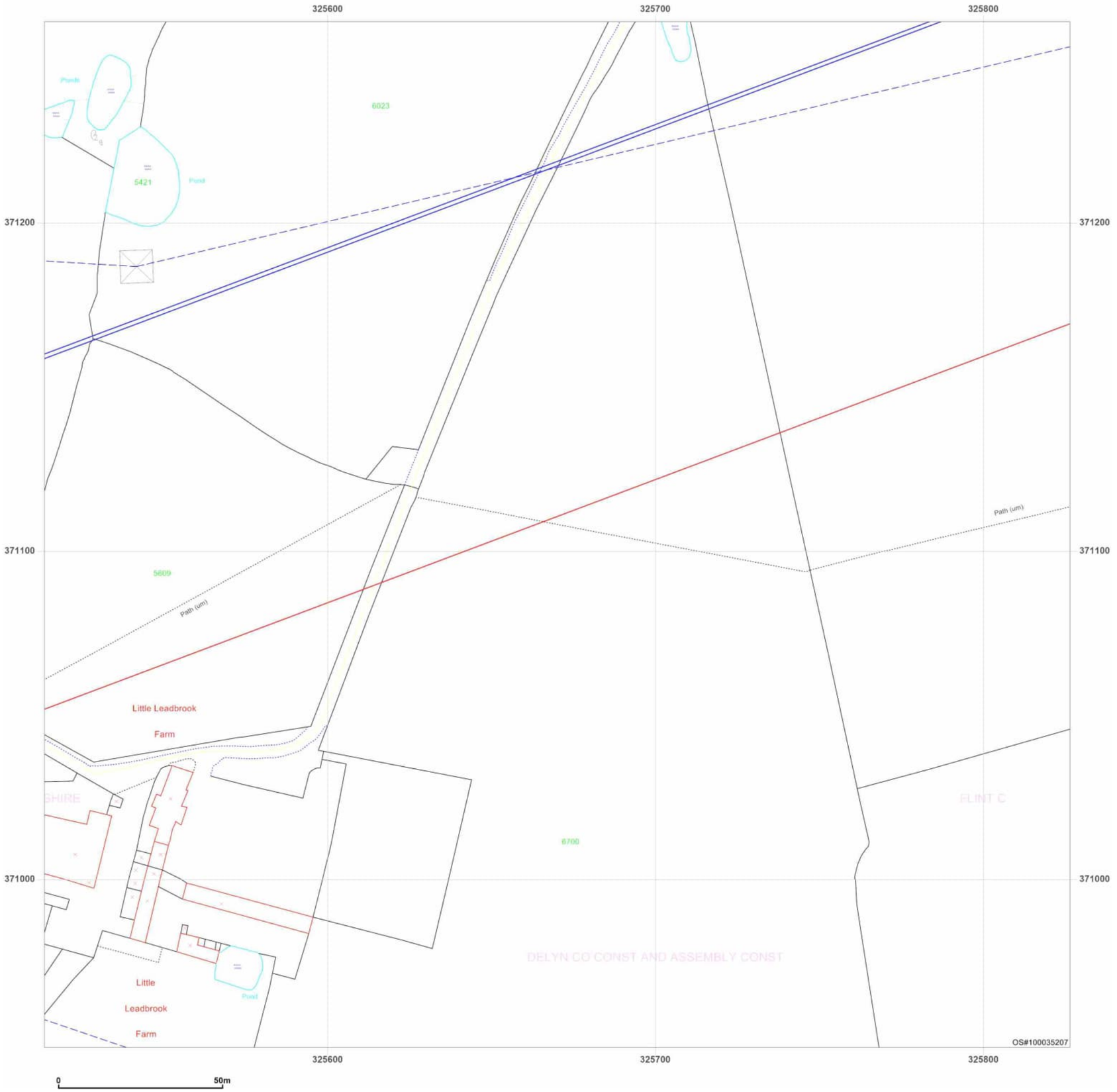
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_3_4
Grid Ref: 325670, 371105

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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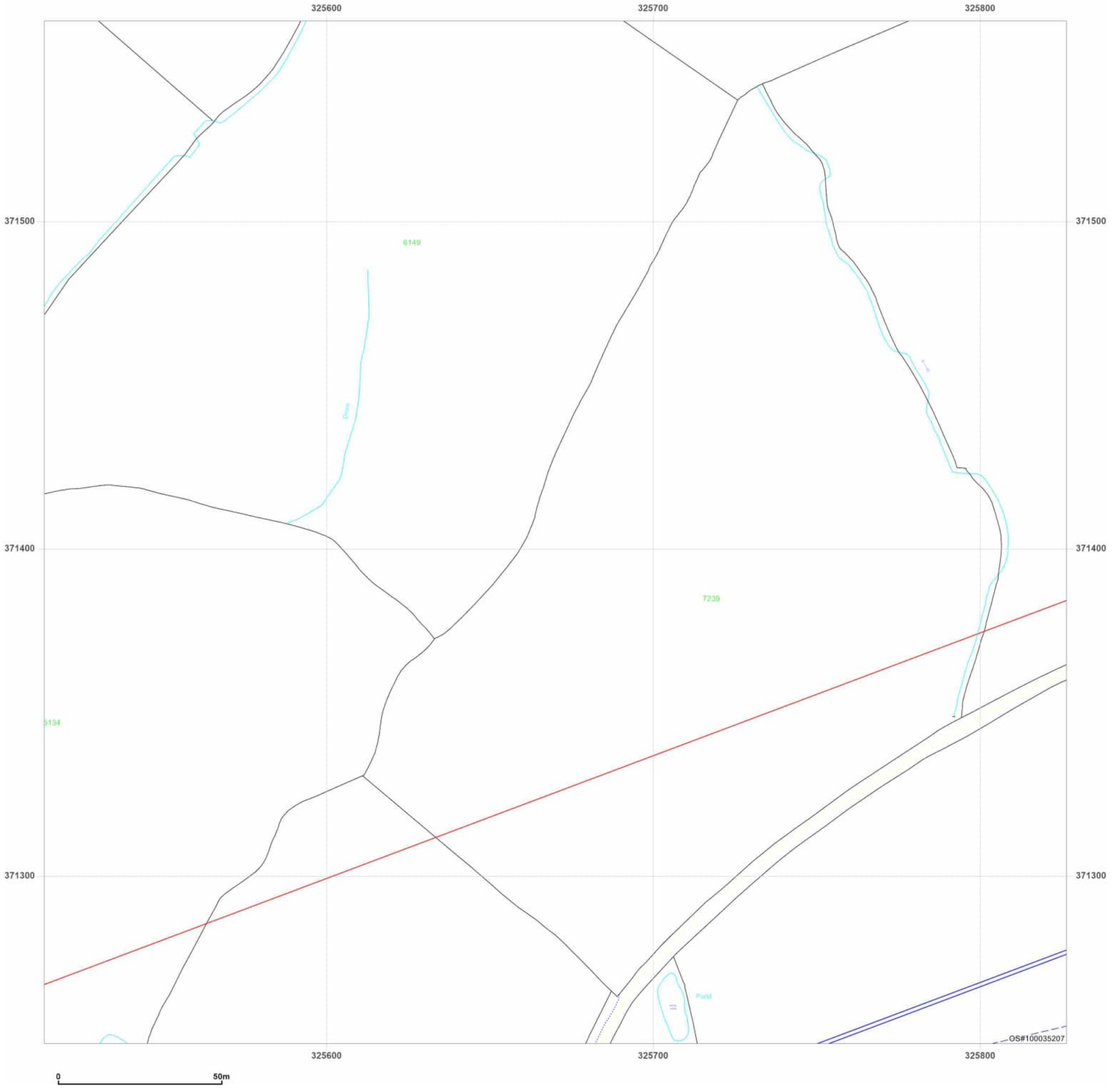
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_3_5
Grid Ref: 325670, 371405

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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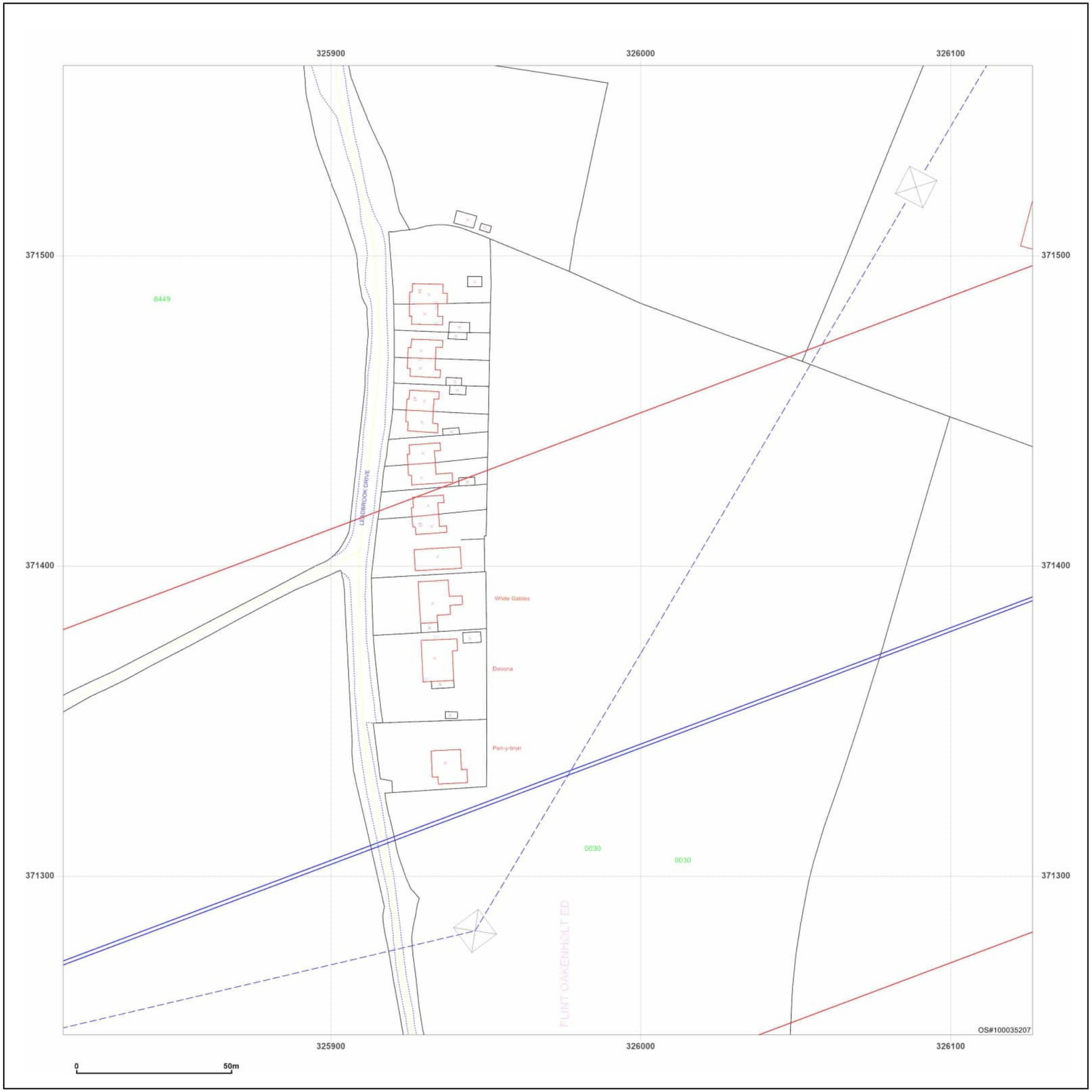
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_4_5
Grid Ref: 325970, 371405

Map Name: LandLine
Map date: **2003**
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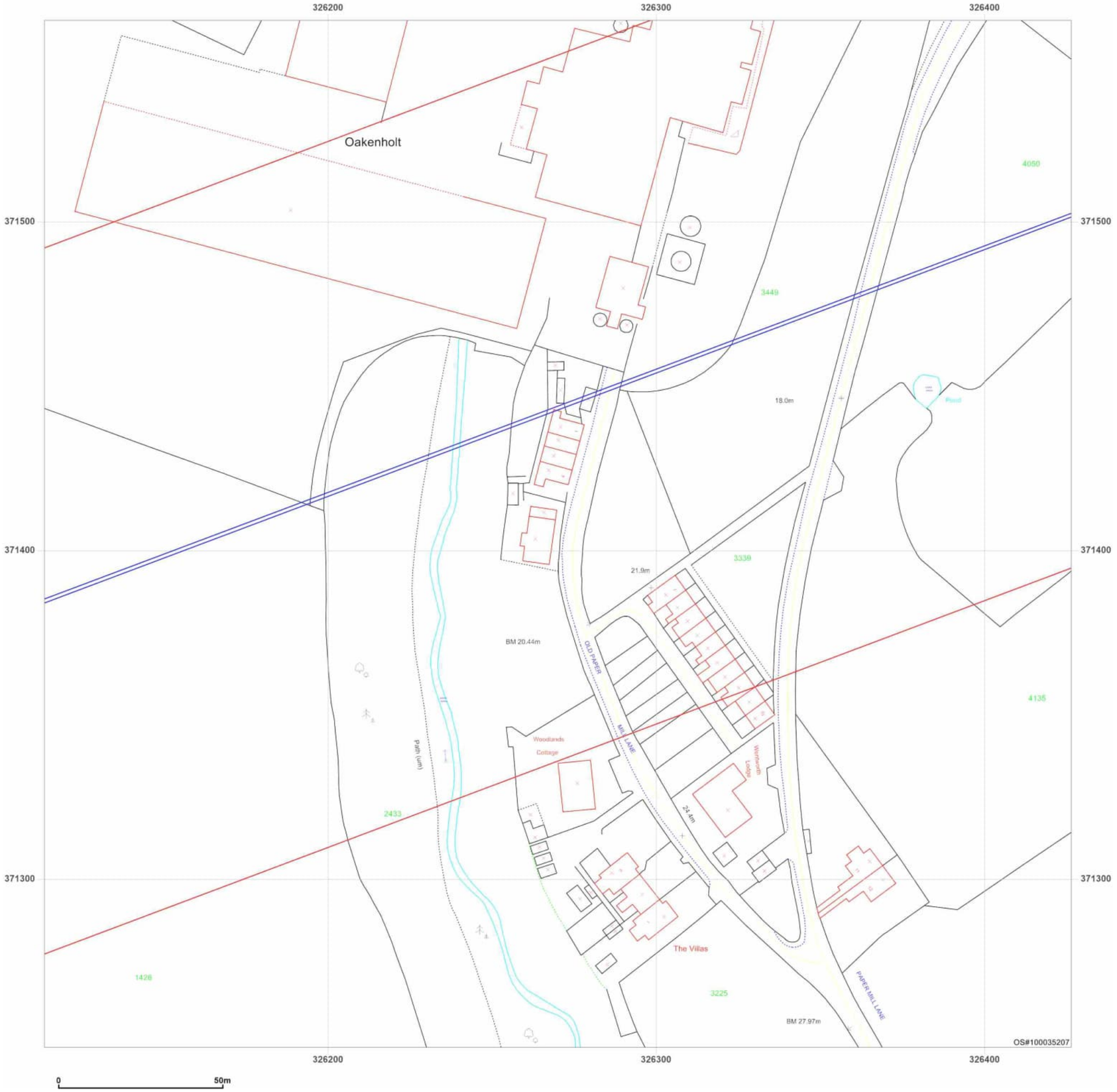
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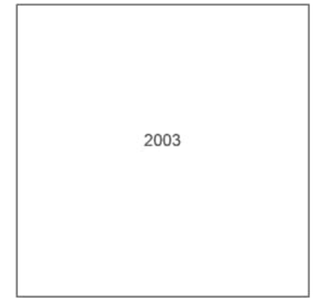
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Report Ref: GSIP-2023-13855-17626_Landline_5_5
Grid Ref: 326270, 371405

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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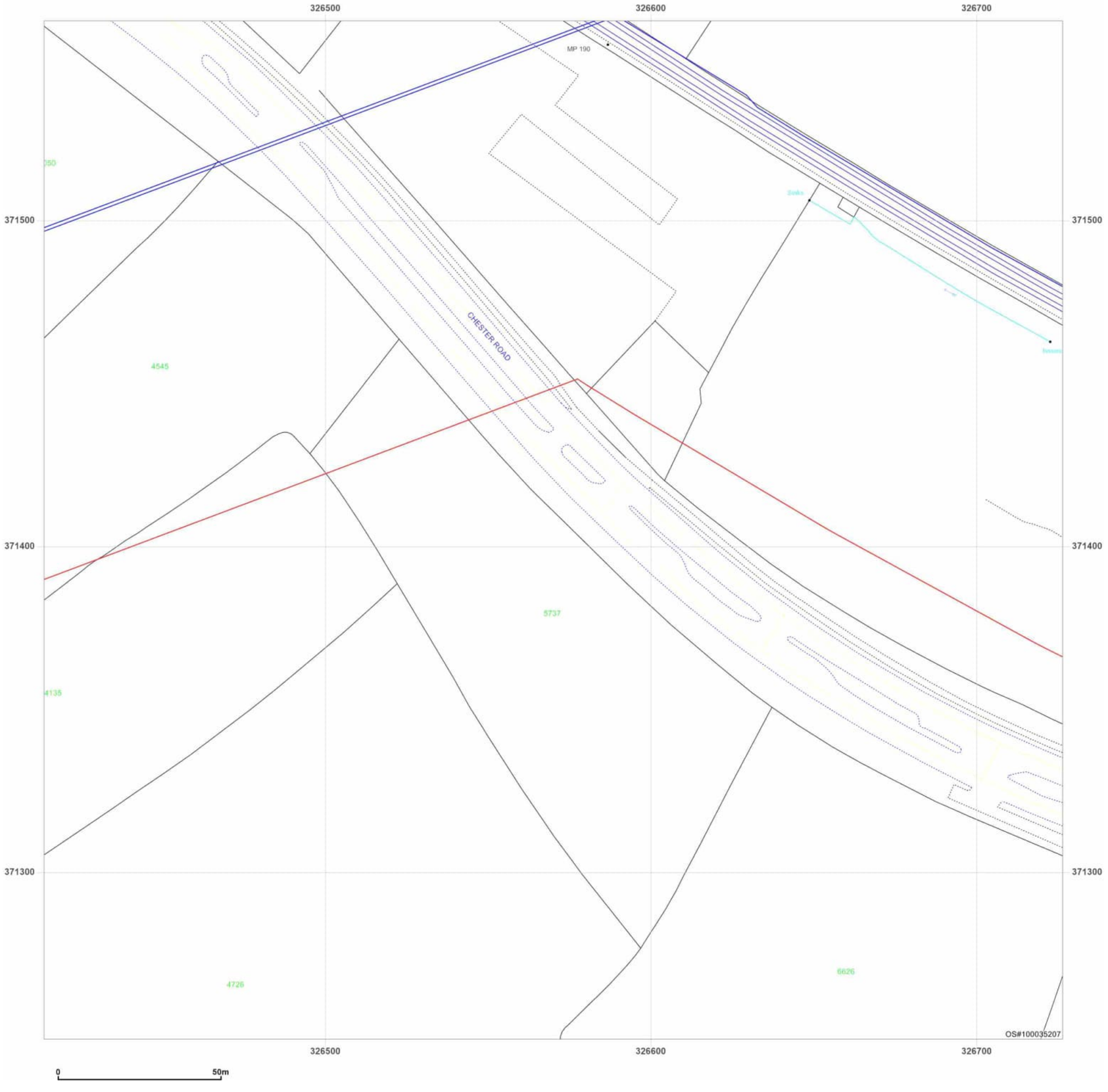
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Site Details:

Connors Quay Updated

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Report Ref: GSIP-2023-13855-17626_Landline_6_5
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Map Name: LandLine
Map date: **2003**
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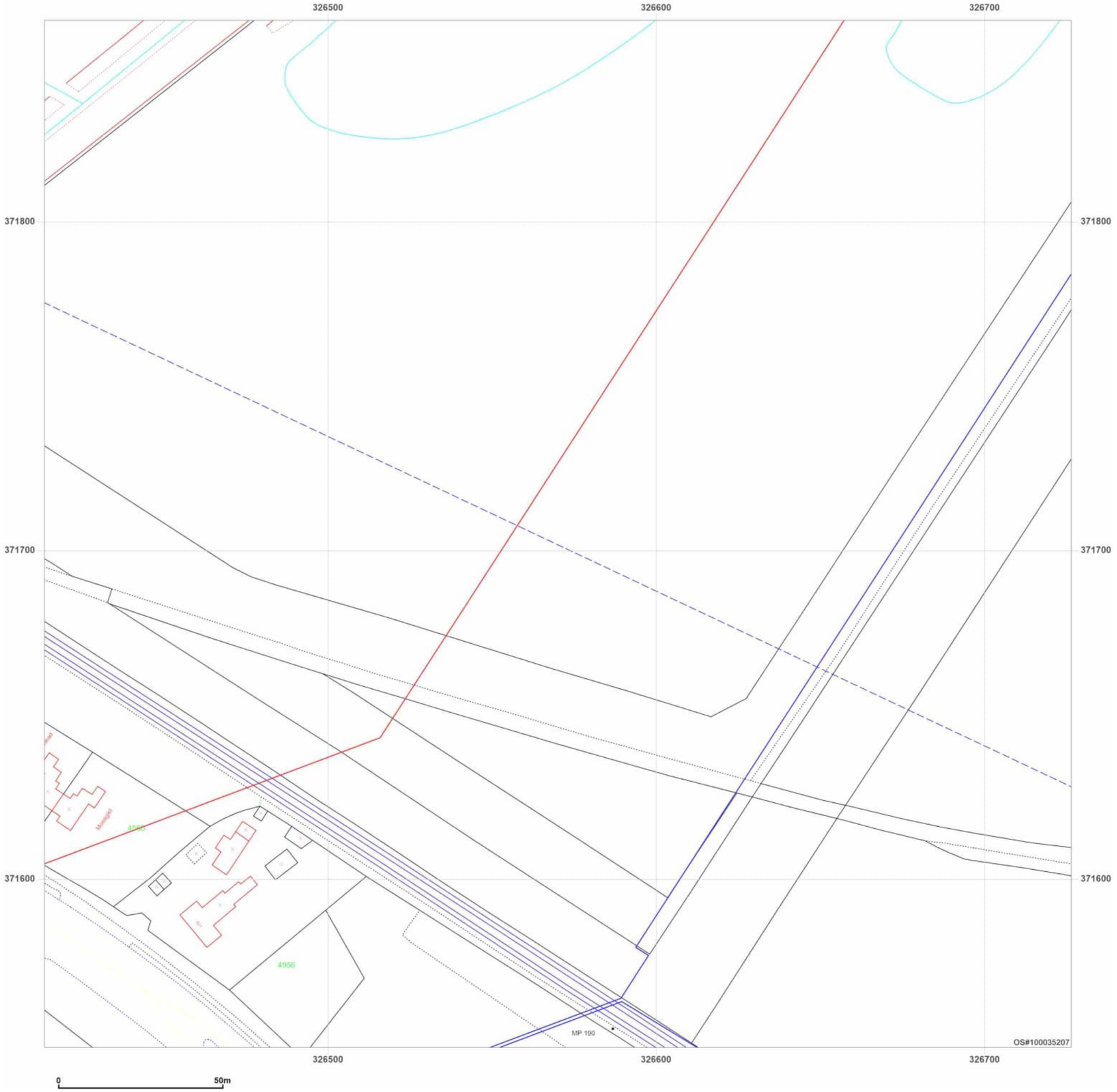
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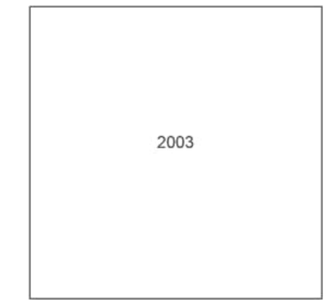
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Grid Ref: 326570, 371705

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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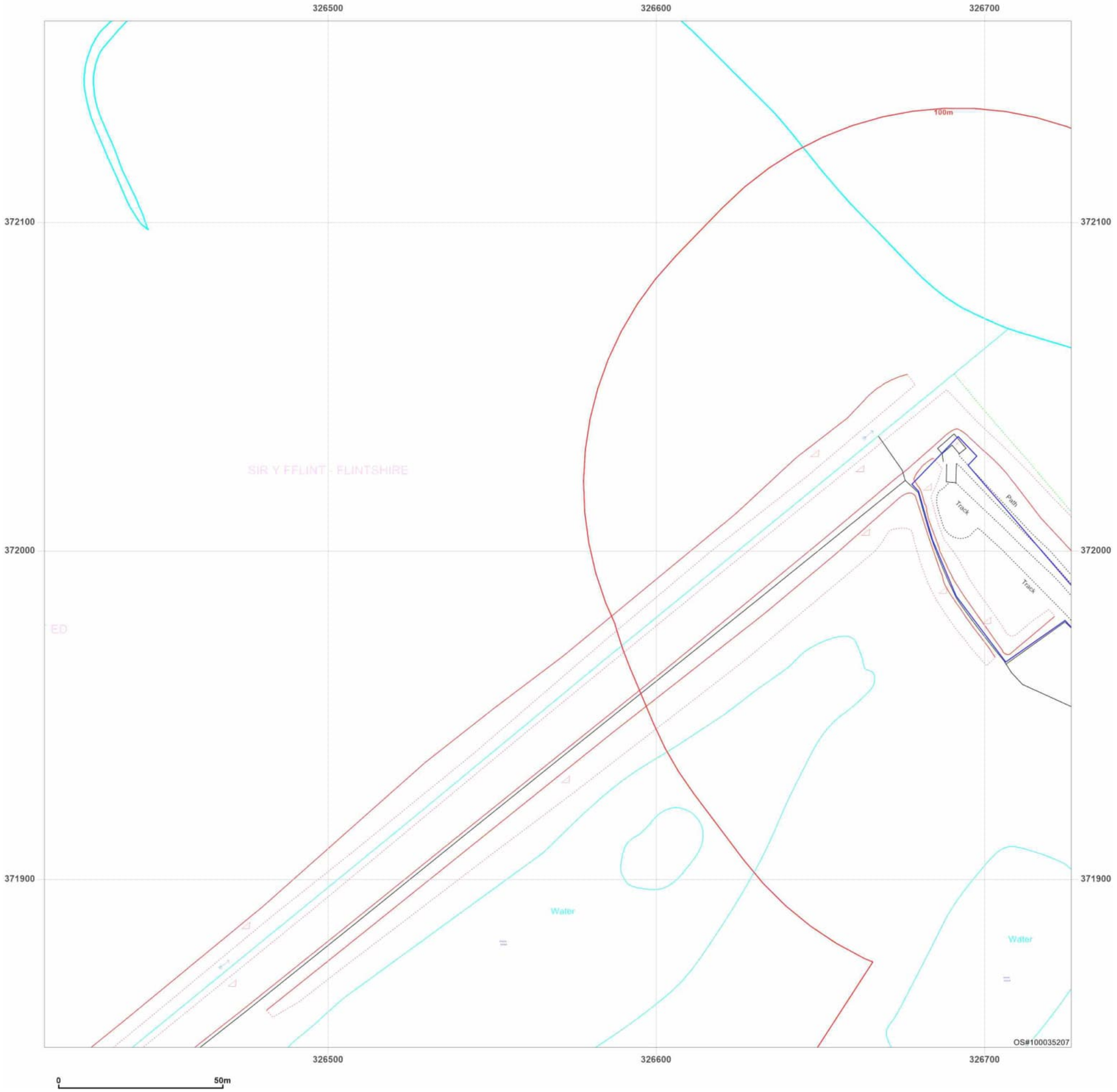
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_6_7
Grid Ref: 326570, 372005

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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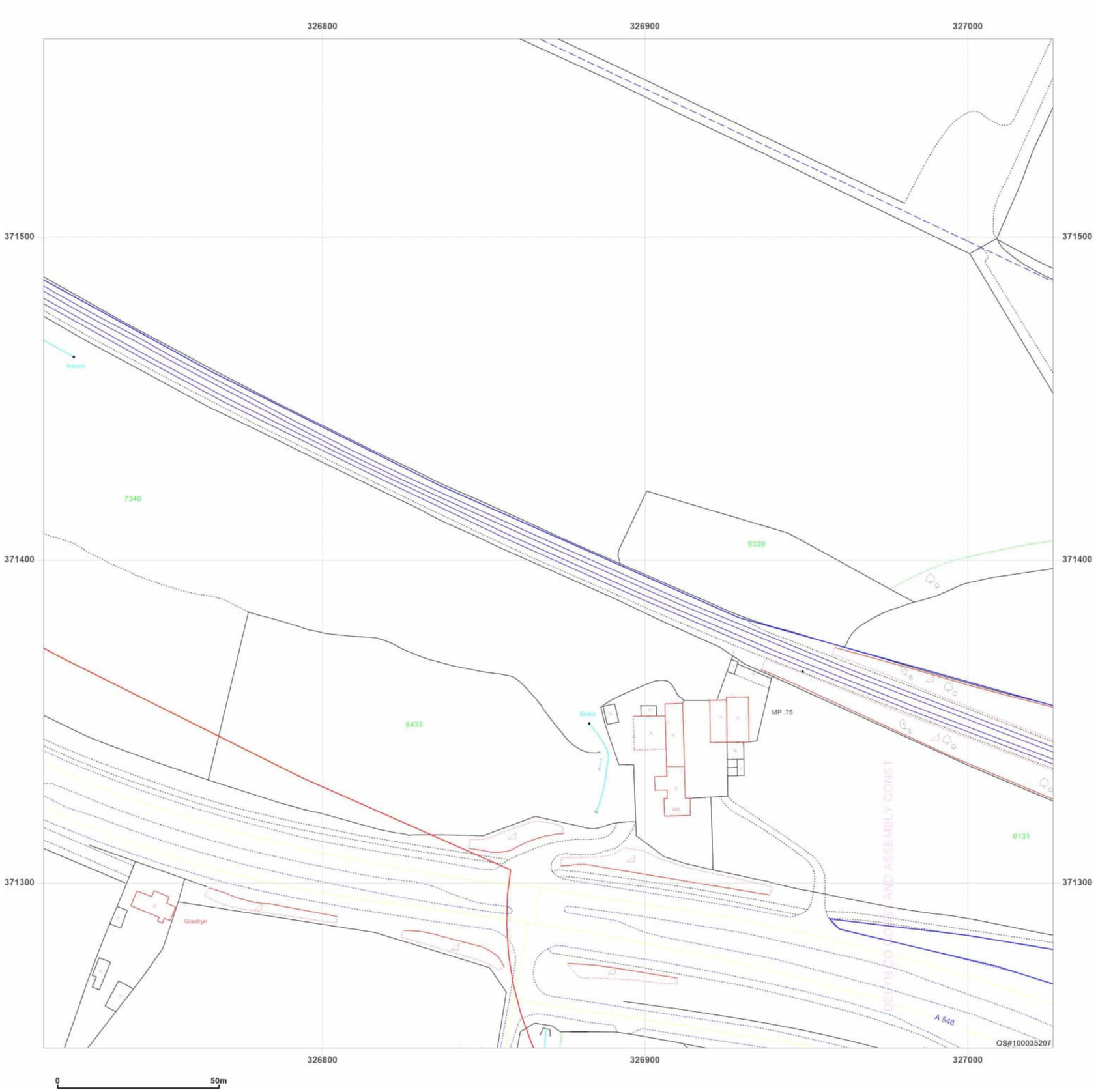
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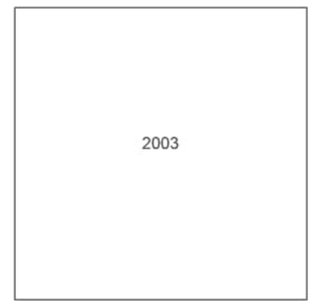
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Report Ref: GSIP-2023-13855-17626_Landline_7_5
Grid Ref: 326870, 371405

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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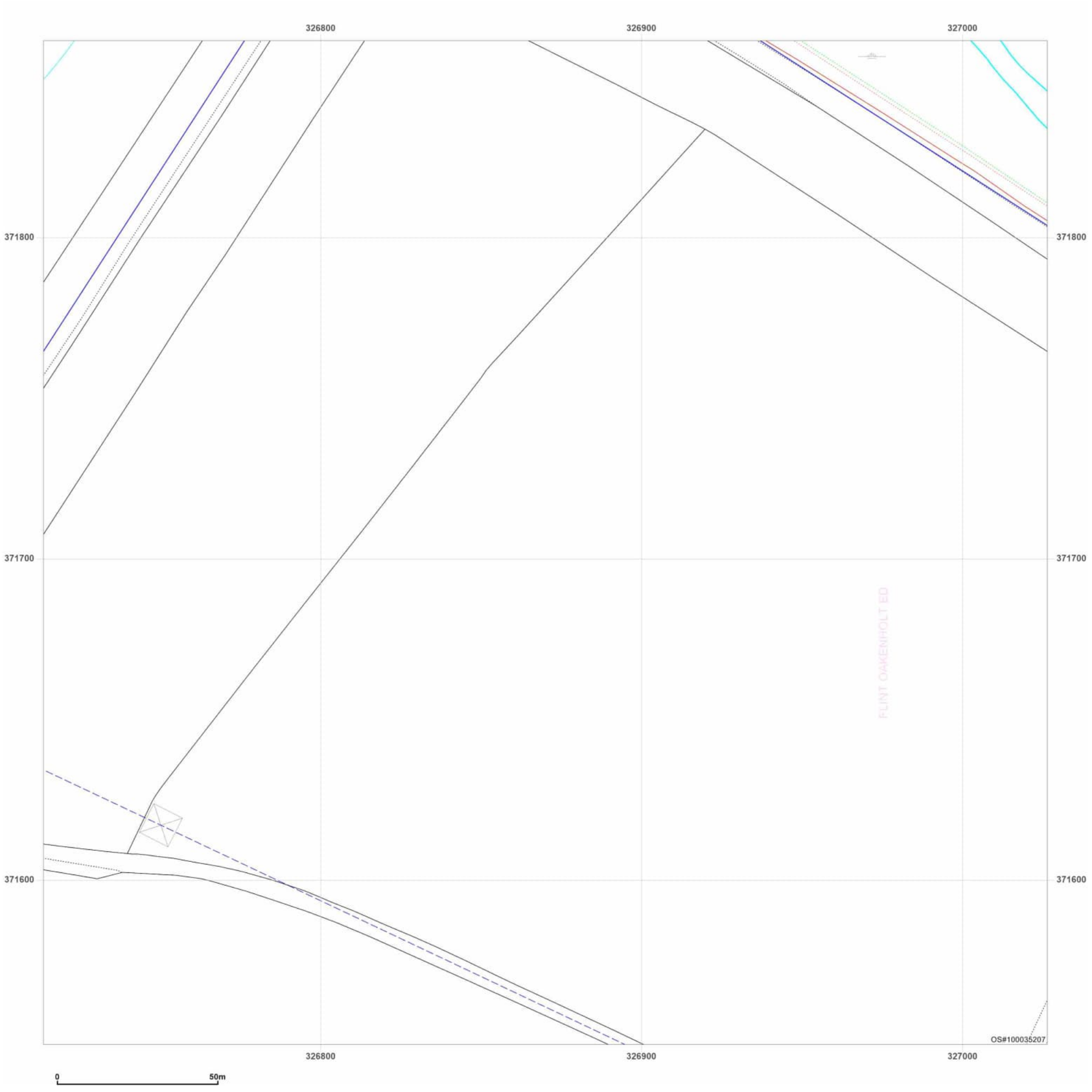
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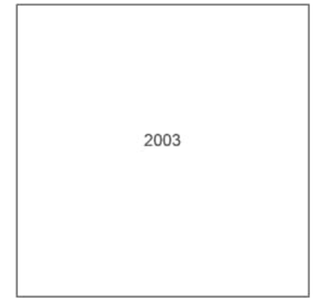
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Report Ref: GSIP-2023-13855-17626_Landline_7_6
Grid Ref: 326870, 371705

Map Name: LandLine
Map date: 2003
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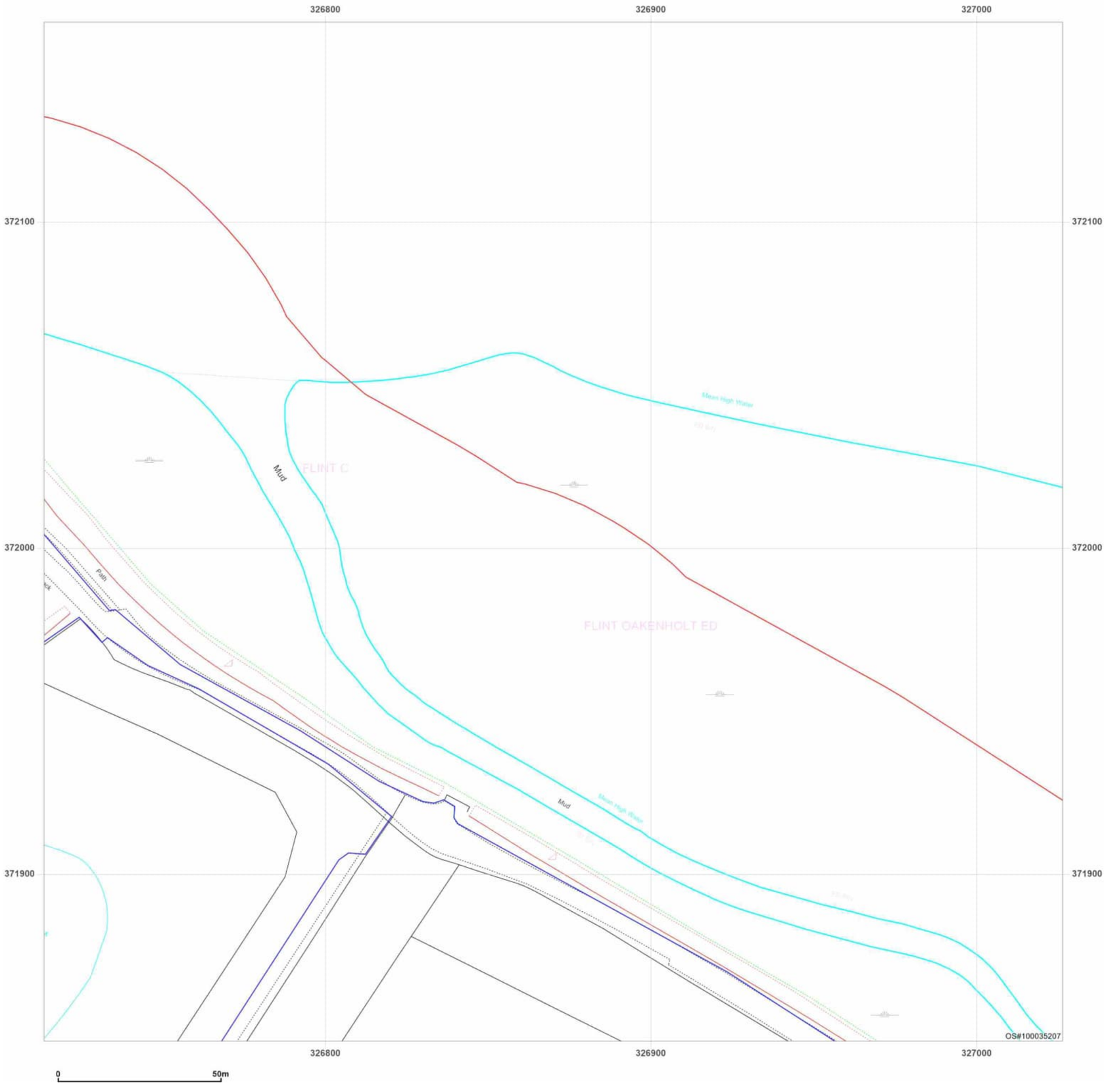
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_7_7
Grid Ref: 326870, 372005

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
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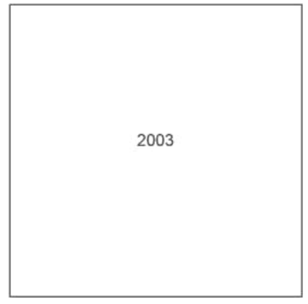
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Report Ref: GSIP-2023-13855-17626_Landline_8_4
Grid Ref: 327170, 371105

Map Name: LandLine
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Printed at: 1:1,250

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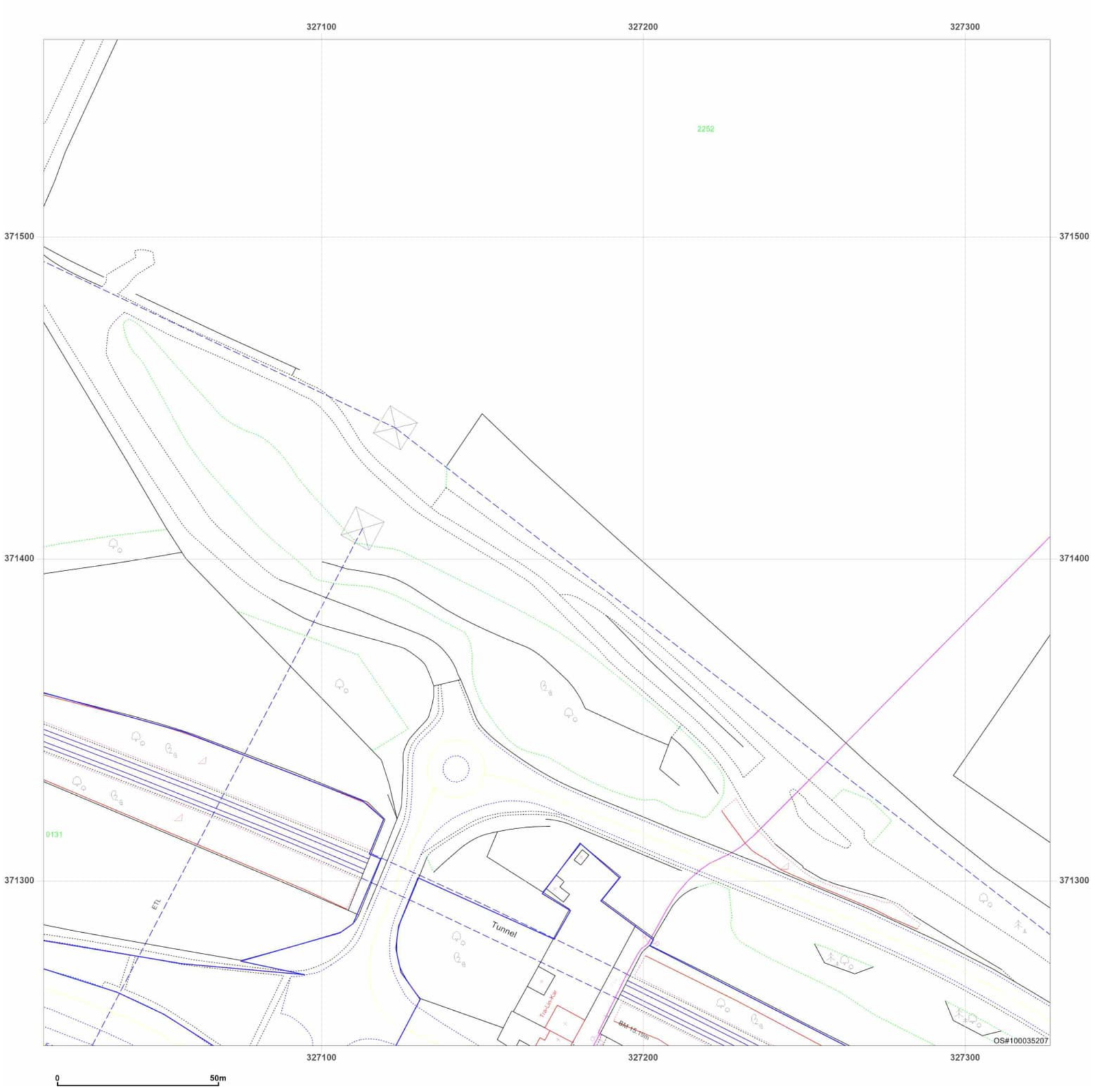
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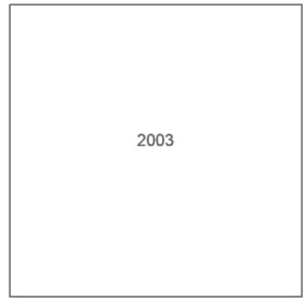
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Grid Ref: 327170, 371405

Map Name: LandLine
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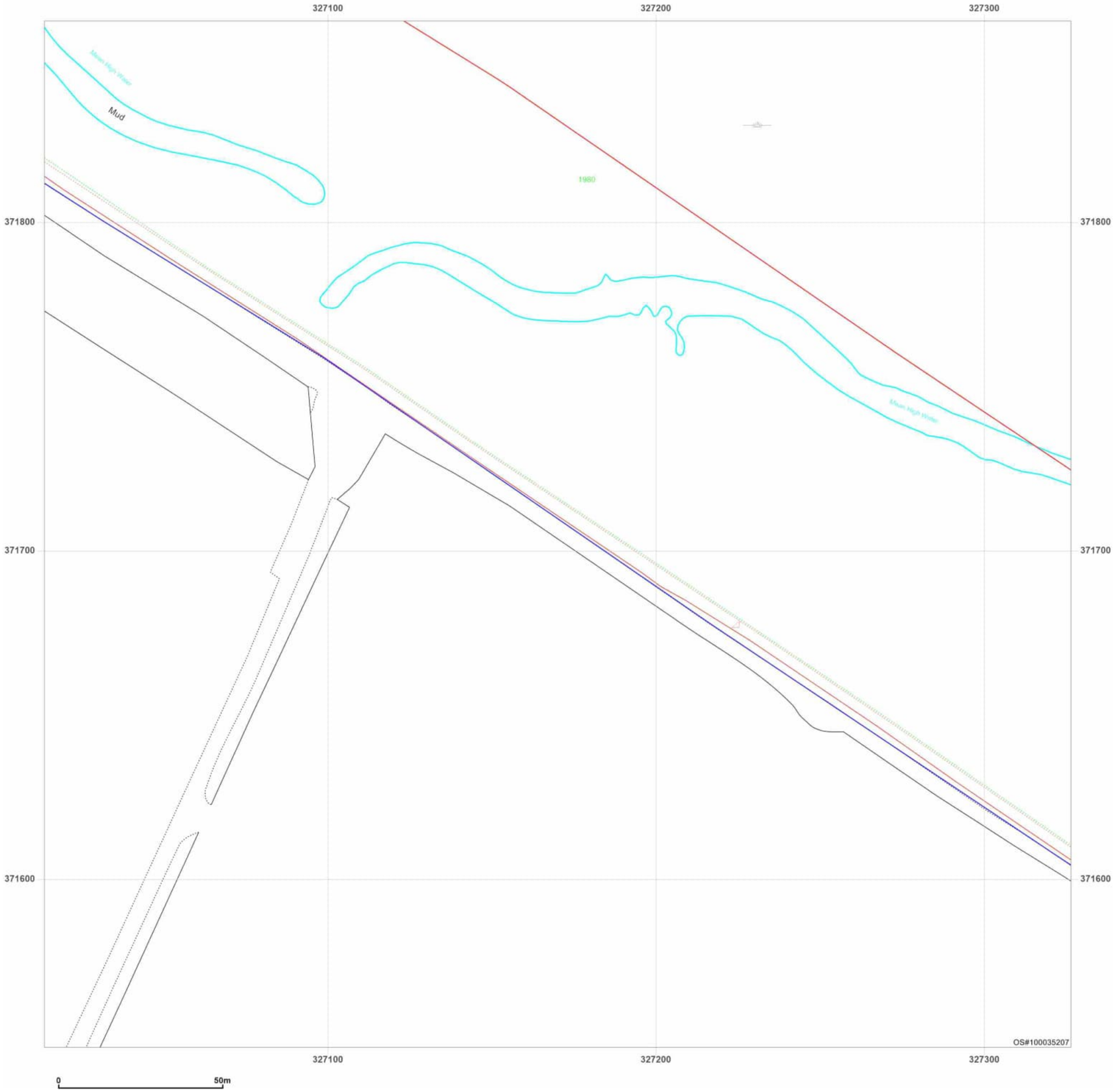
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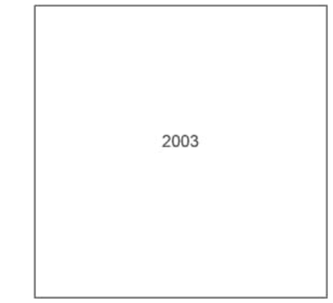
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Report Ref: GSIP-2023-13855-17626_Landline_8_6
Grid Ref: 327170, 371705

Map Name: LandLine
Map date: 2003
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Printed at: 1:1,250

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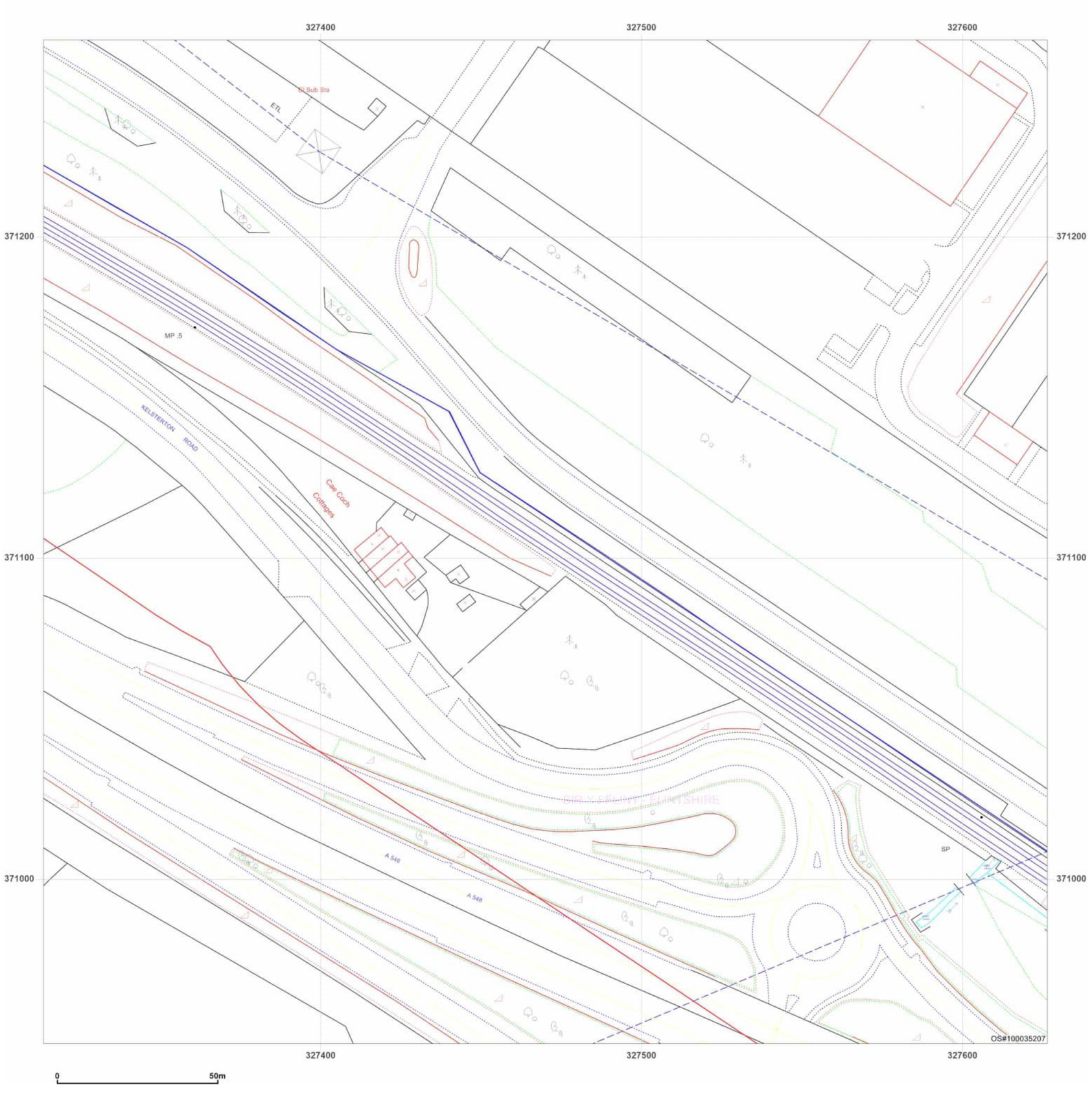
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_9_4
Grid Ref: 327470, 371105

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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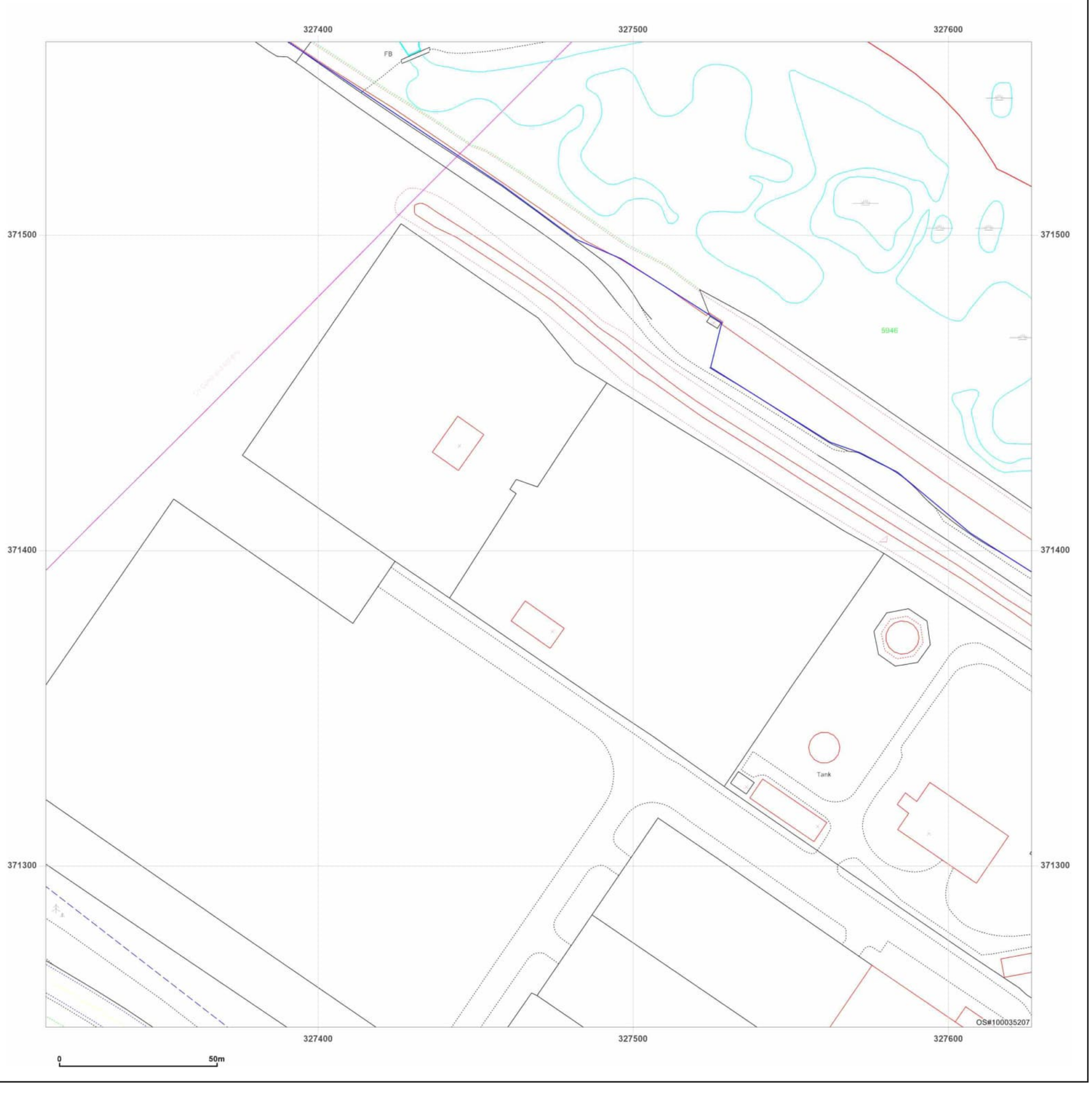
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_9_5
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Map Name: LandLine
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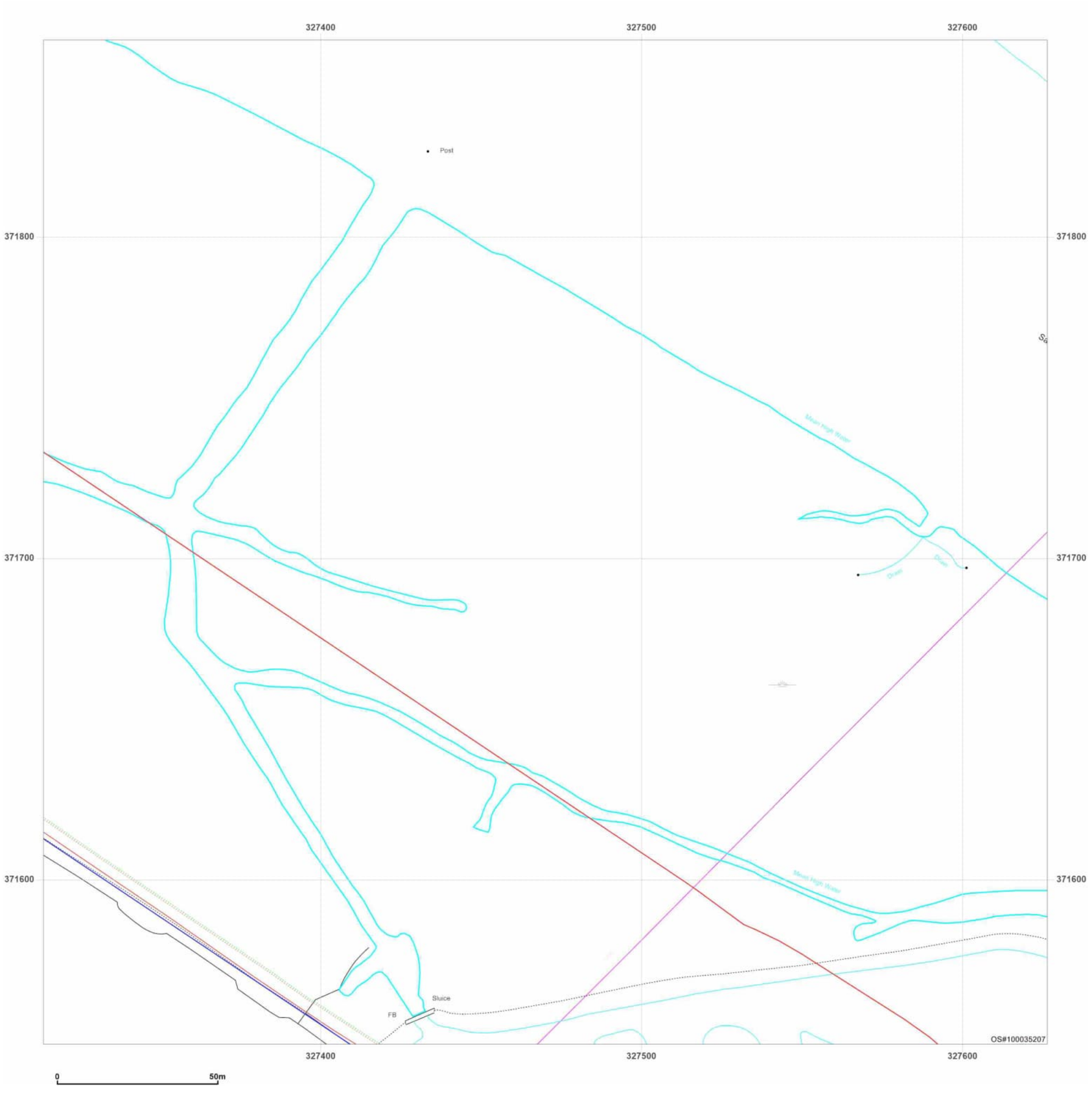
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_9_6
Grid Ref: 327470, 371705

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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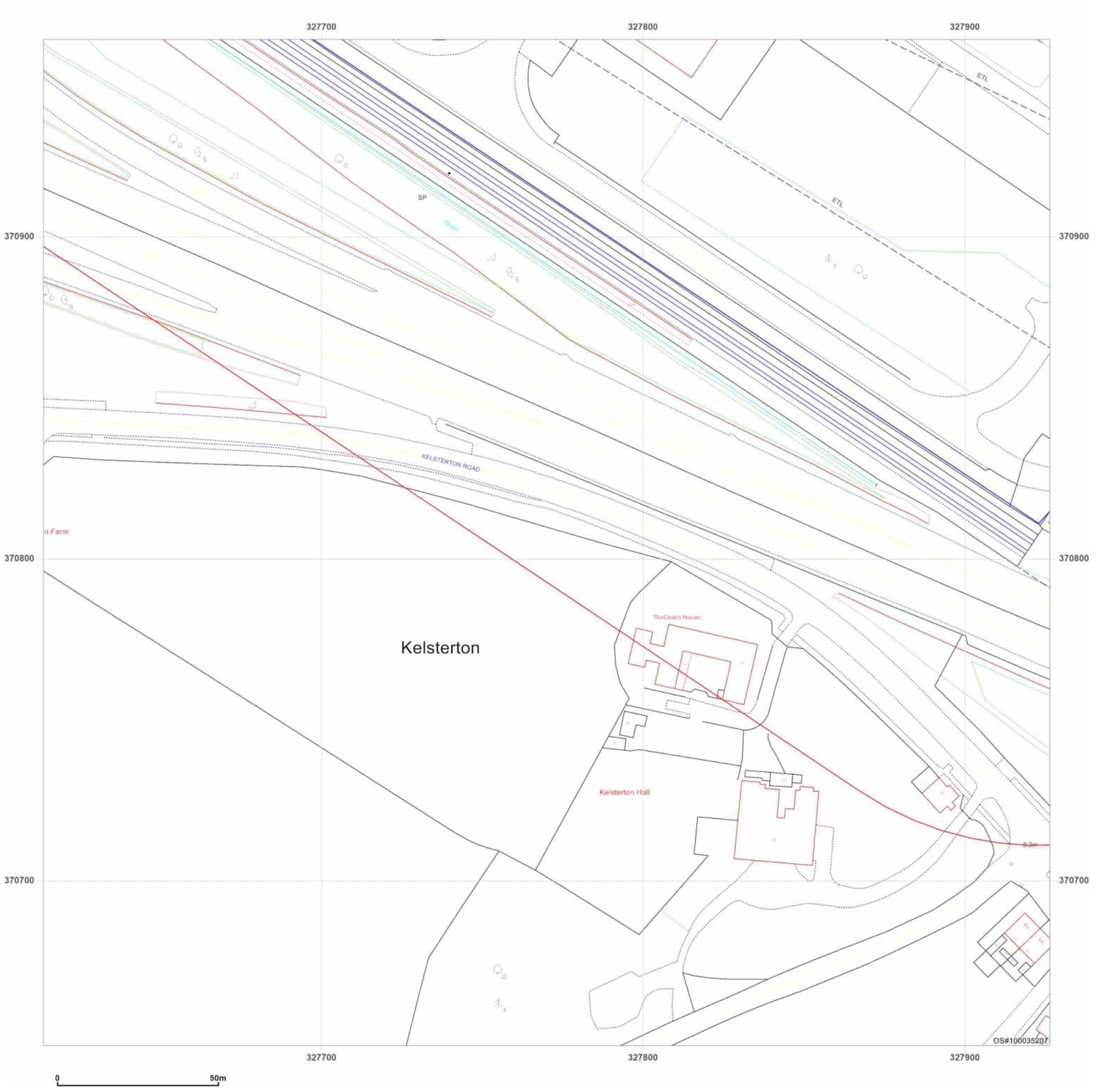
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_10_3
Grid Ref: 327770, 370805

Map Name: LandLine
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Printed at: 1:1,250

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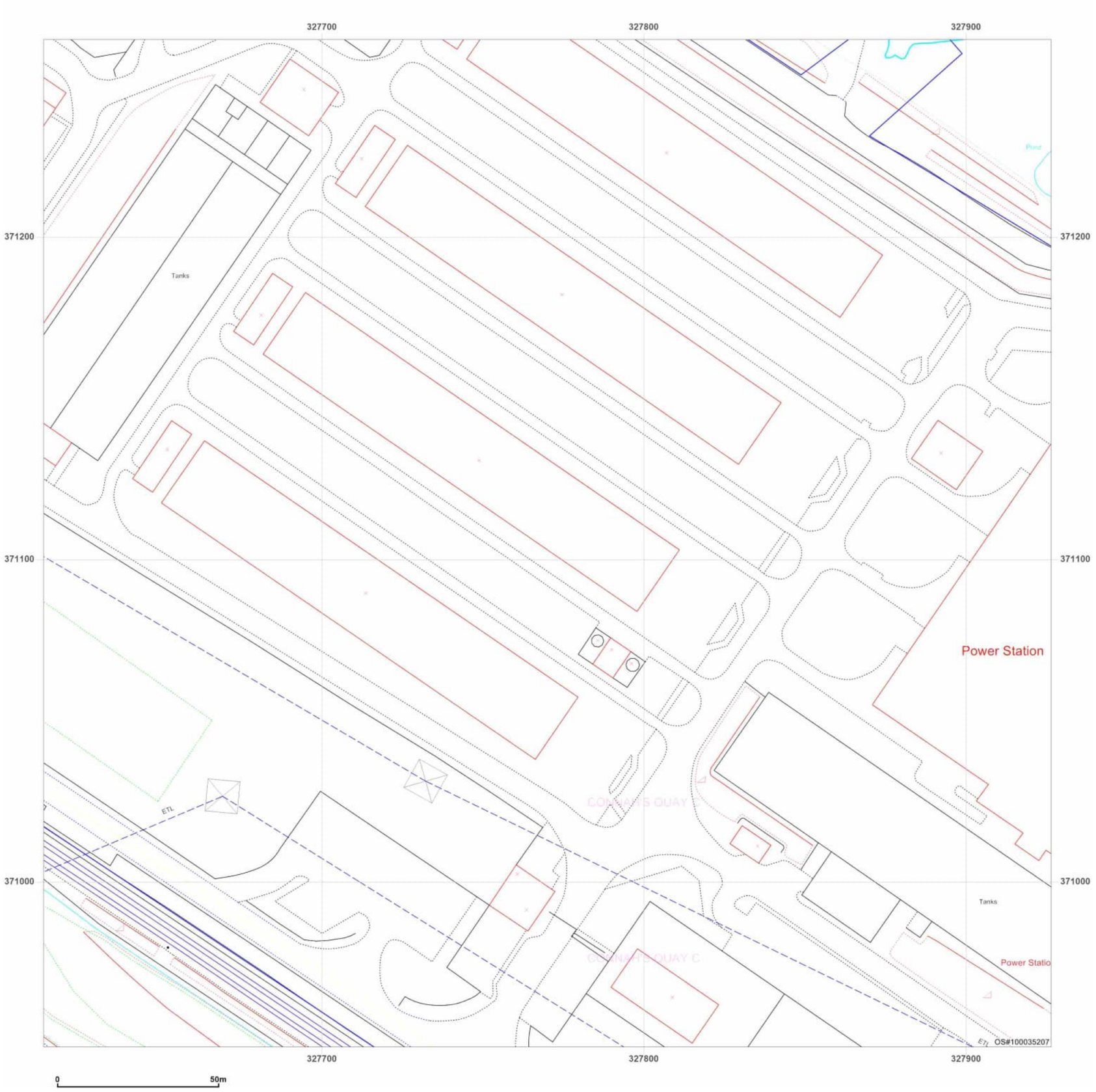
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_10_4
Grid Ref: 327770, 371105

Map Name: LandLine
Map date: 2003
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Printed at: 1:1,250

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2003

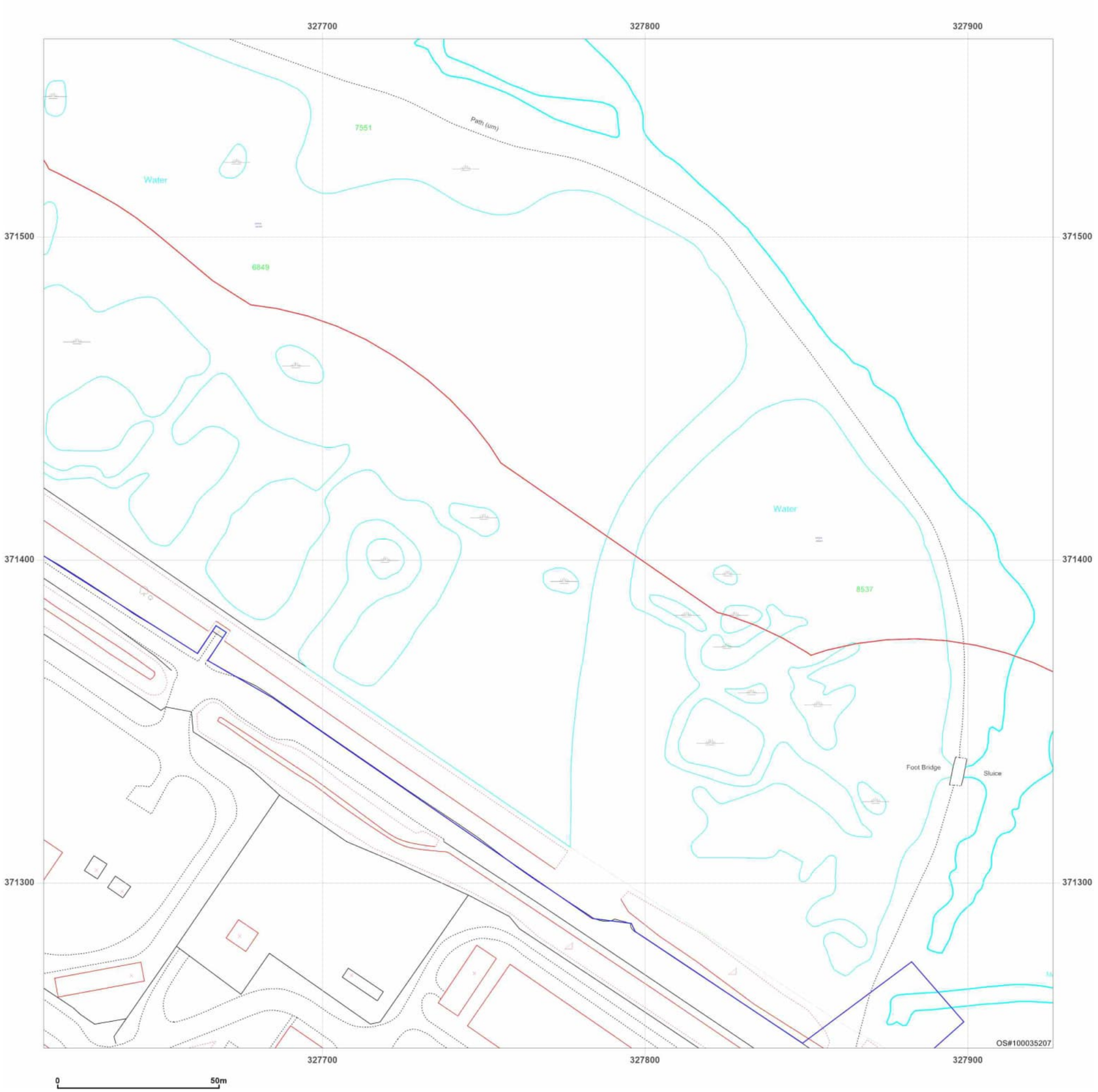
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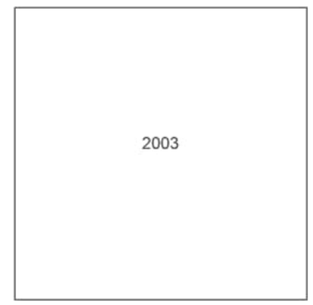
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_10_5
Grid Ref: 327770, 371405

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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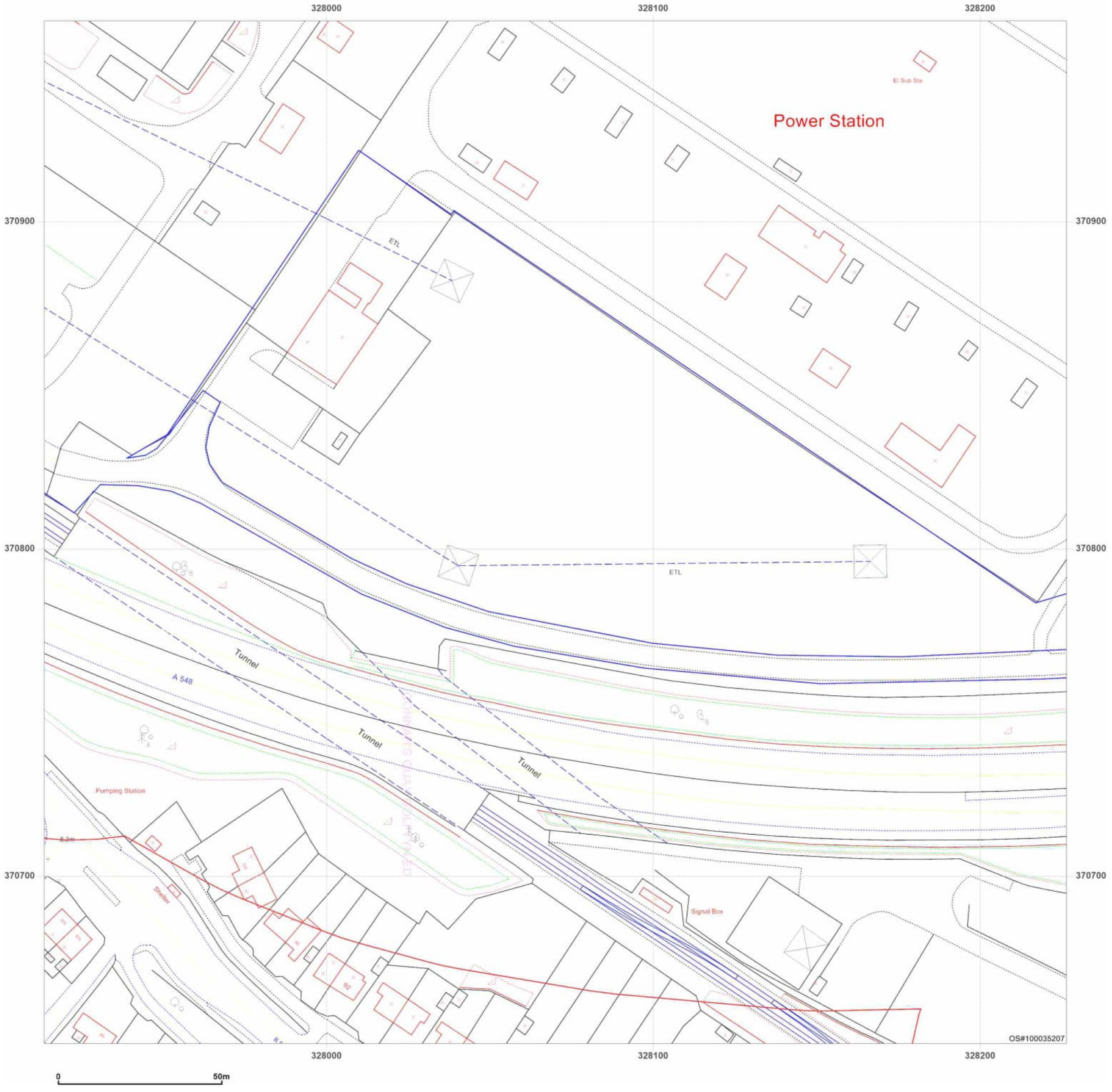
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_11_3
Grid Ref: 328070, 370805

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

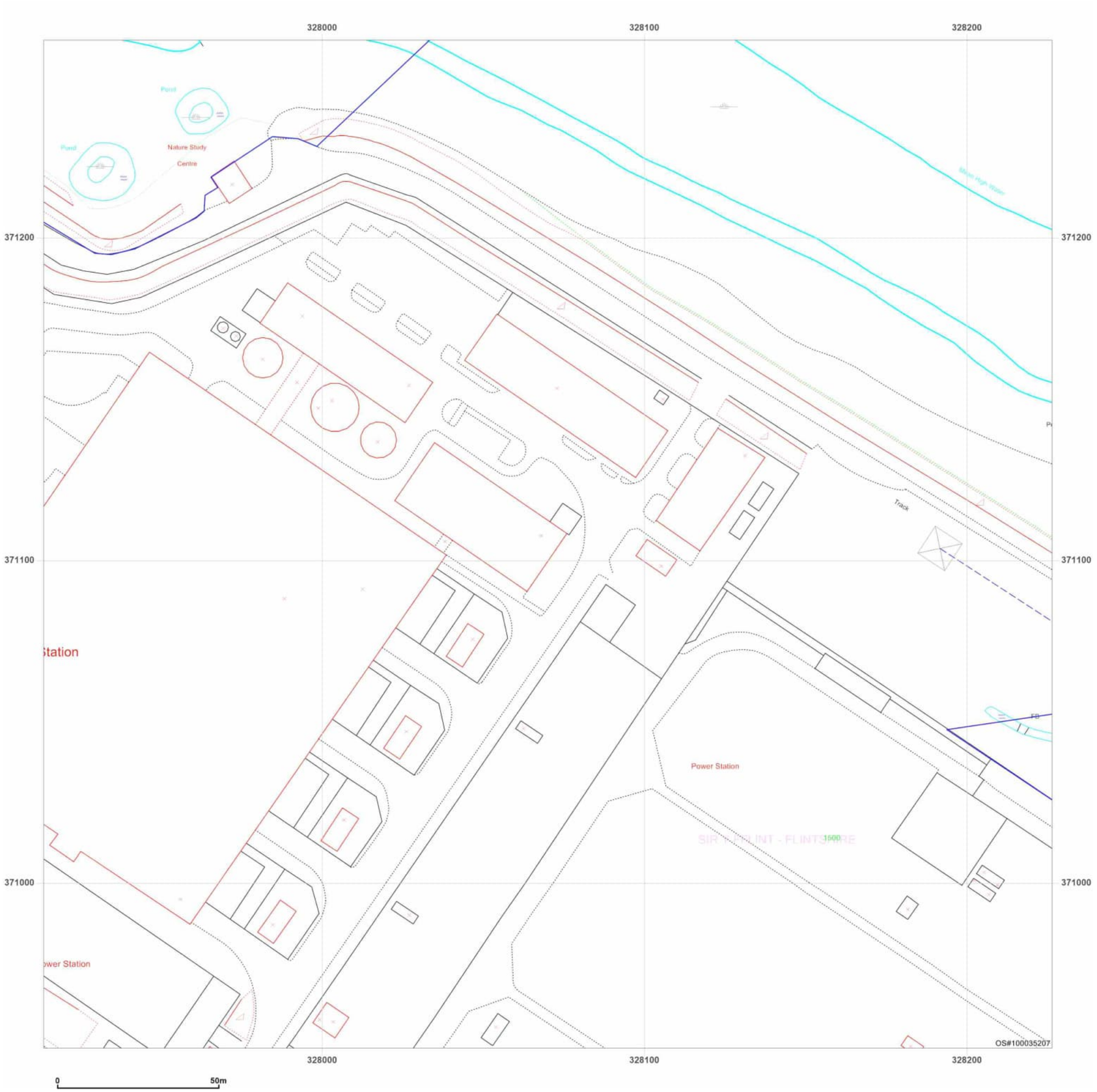
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_11_4
Grid Ref: 328070, 371105

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
W E
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2003

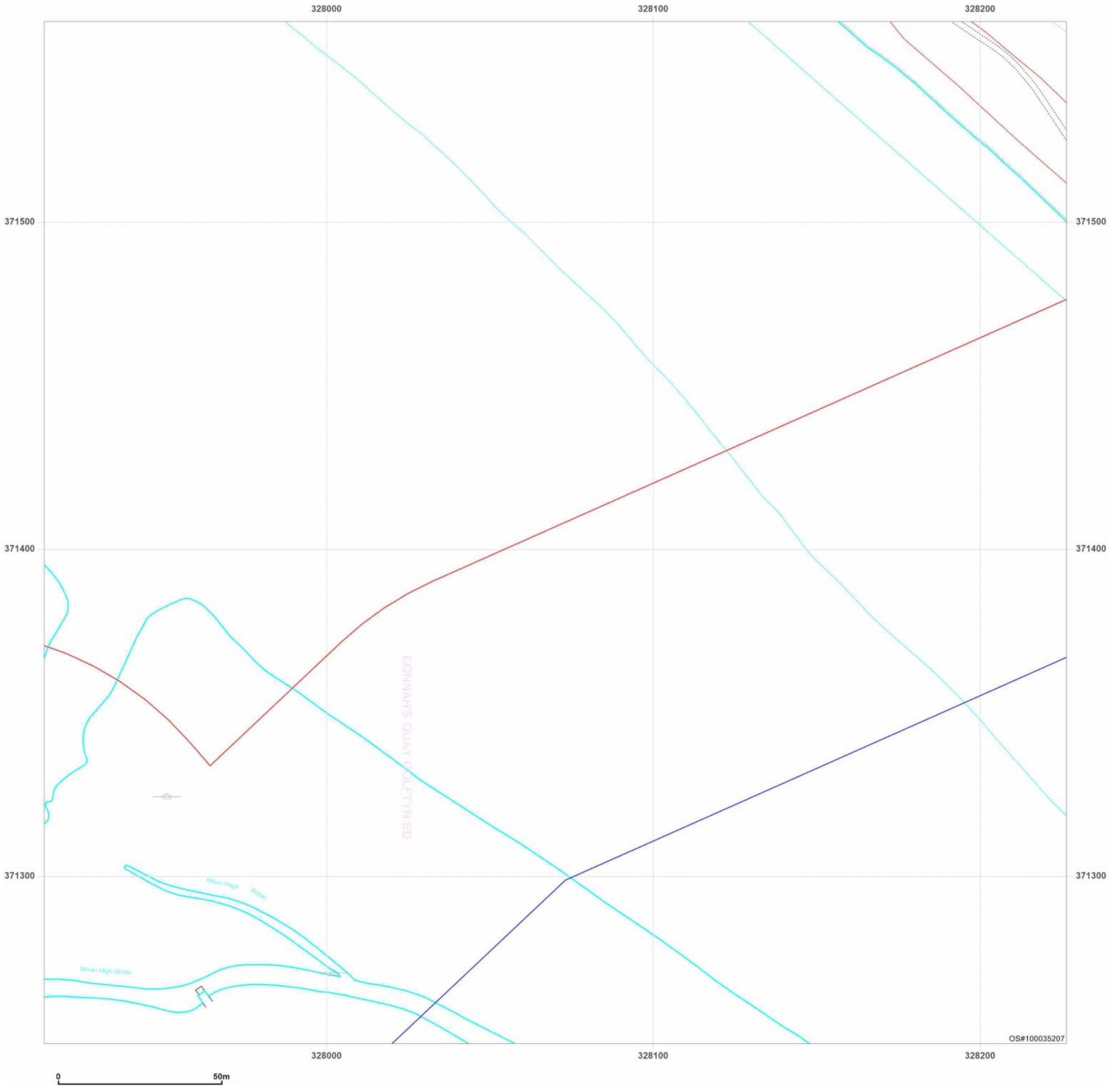
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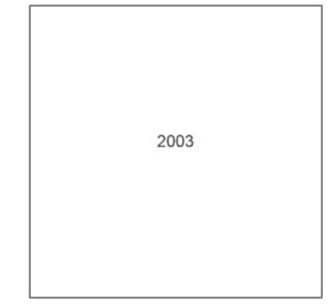
Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_11_5
Grid Ref: 328070, 371405

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_12_2
Grid Ref: 328370, 370505

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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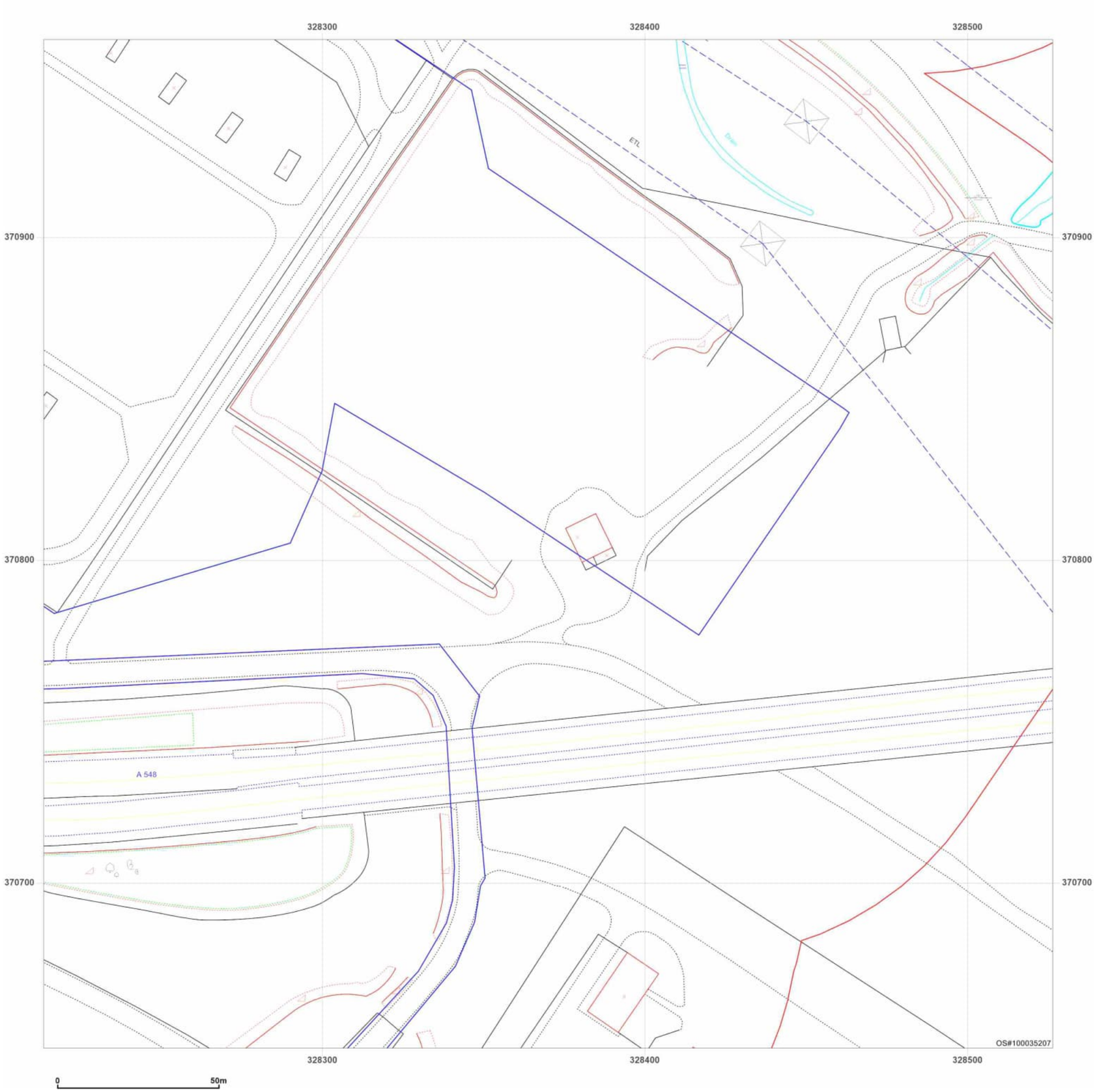
2003

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_12_3
Grid Ref: 328370, 370805

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

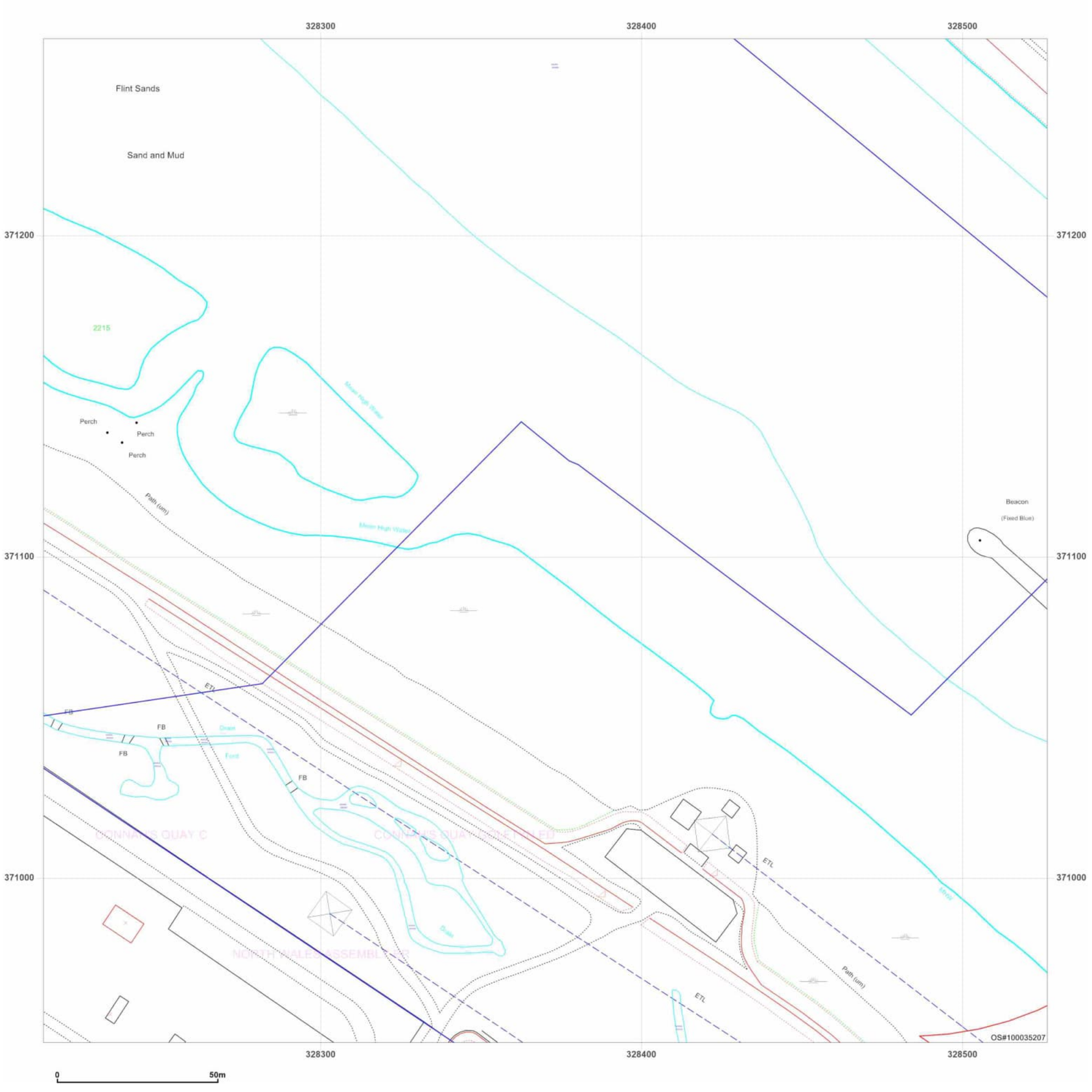
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_12_4
Grid Ref: 328370, 371105

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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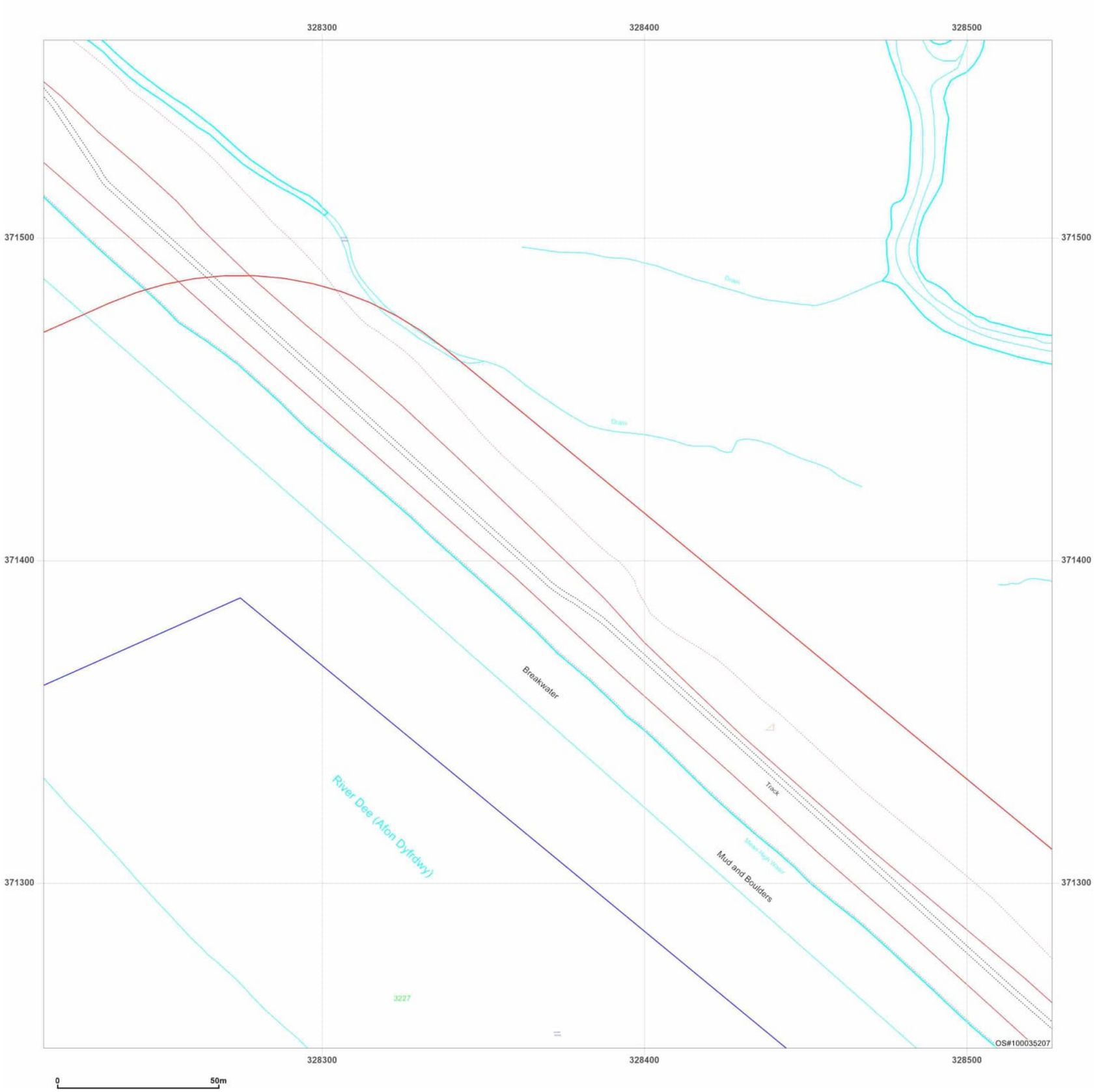
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_12_5
Grid Ref: 328370, 371405

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_13_1
Grid Ref: 328670, 370205

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_13_2
Grid Ref: 328670, 370505

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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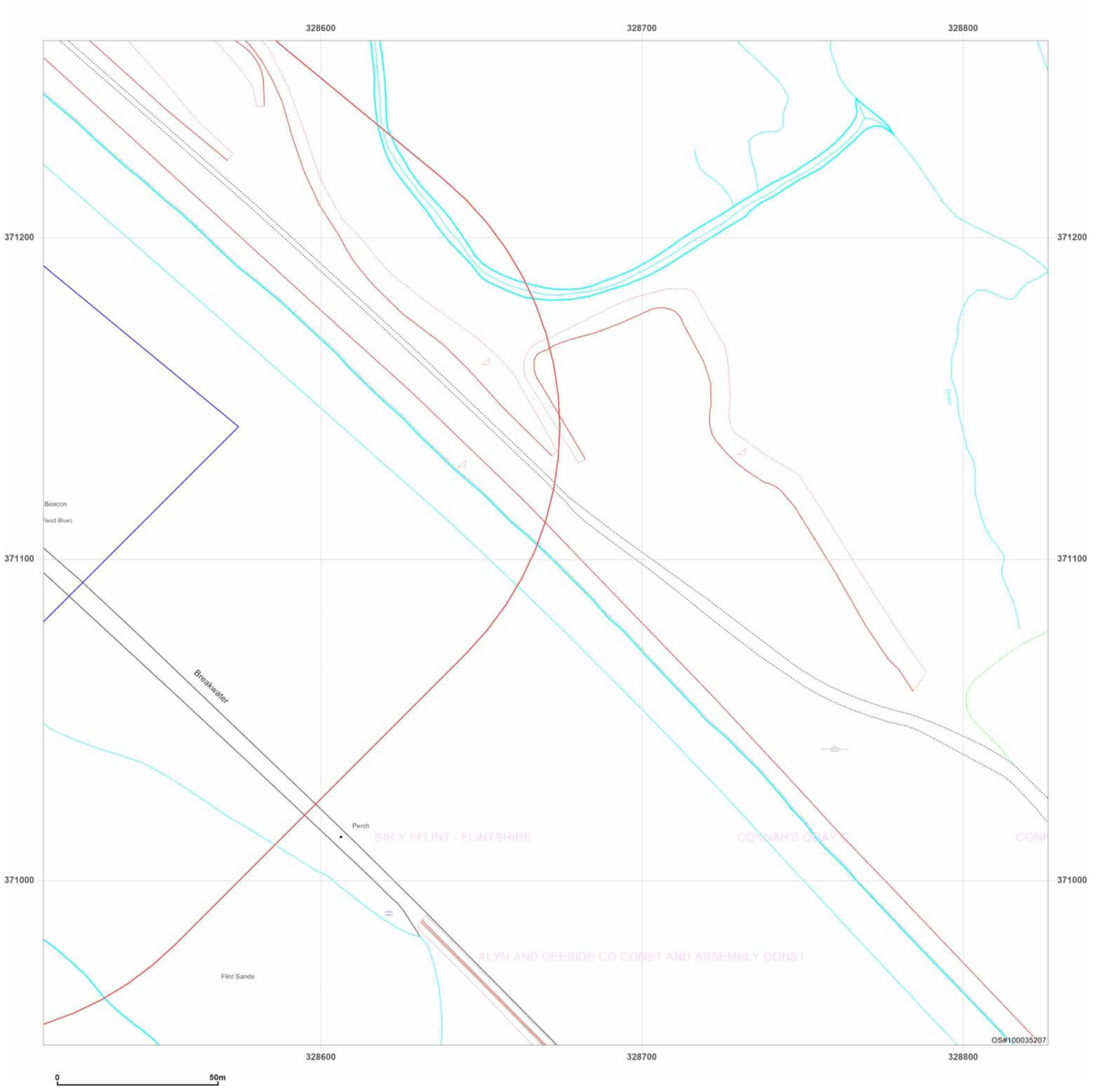
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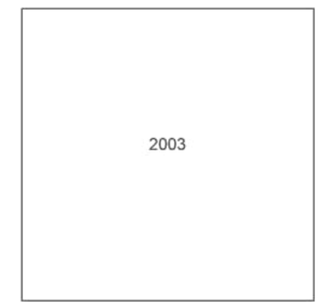
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_13_4
Grid Ref: 328670, 371105

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
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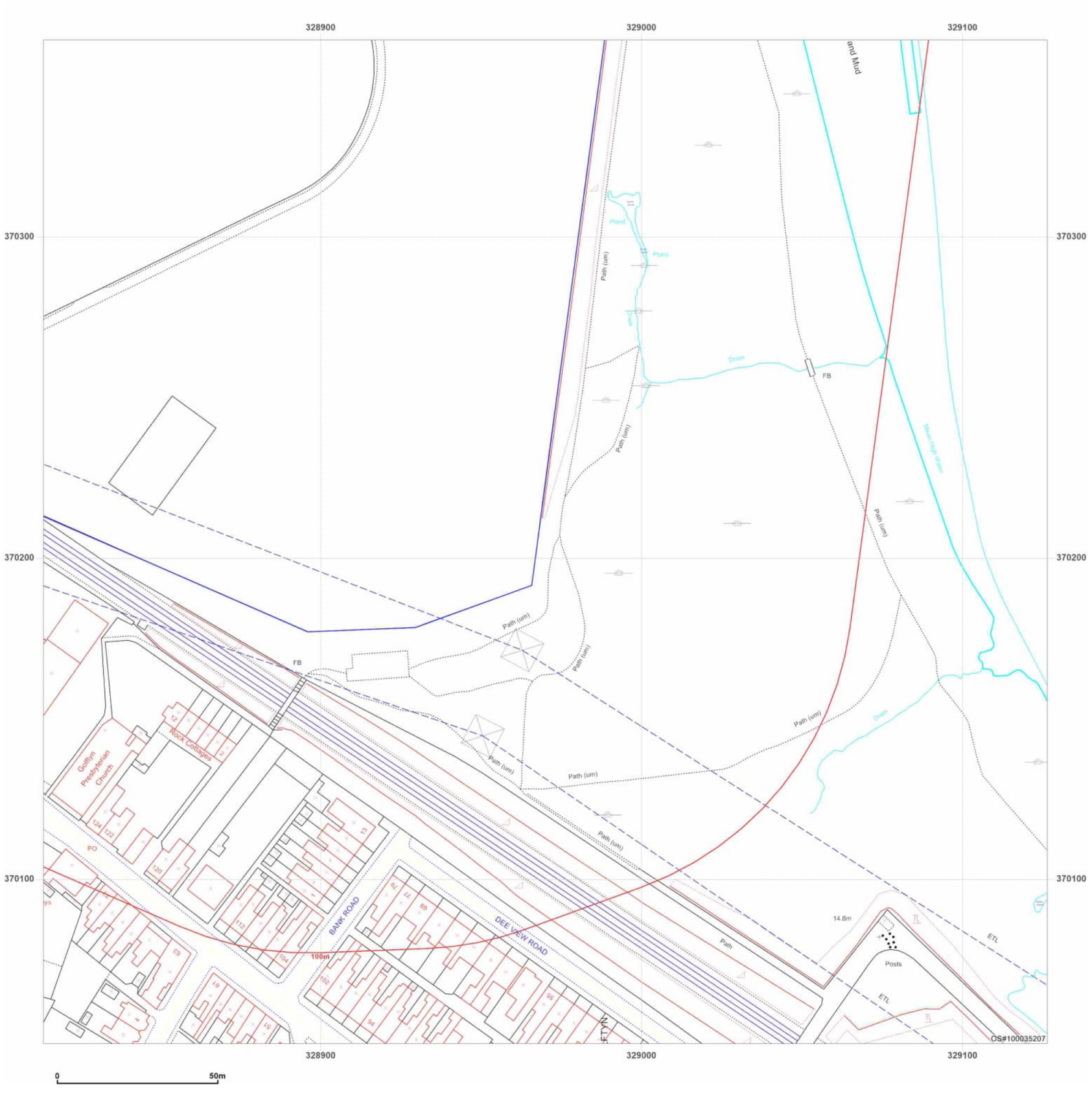
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_14_1
Grid Ref: 328970, 370205

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
W E
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2003

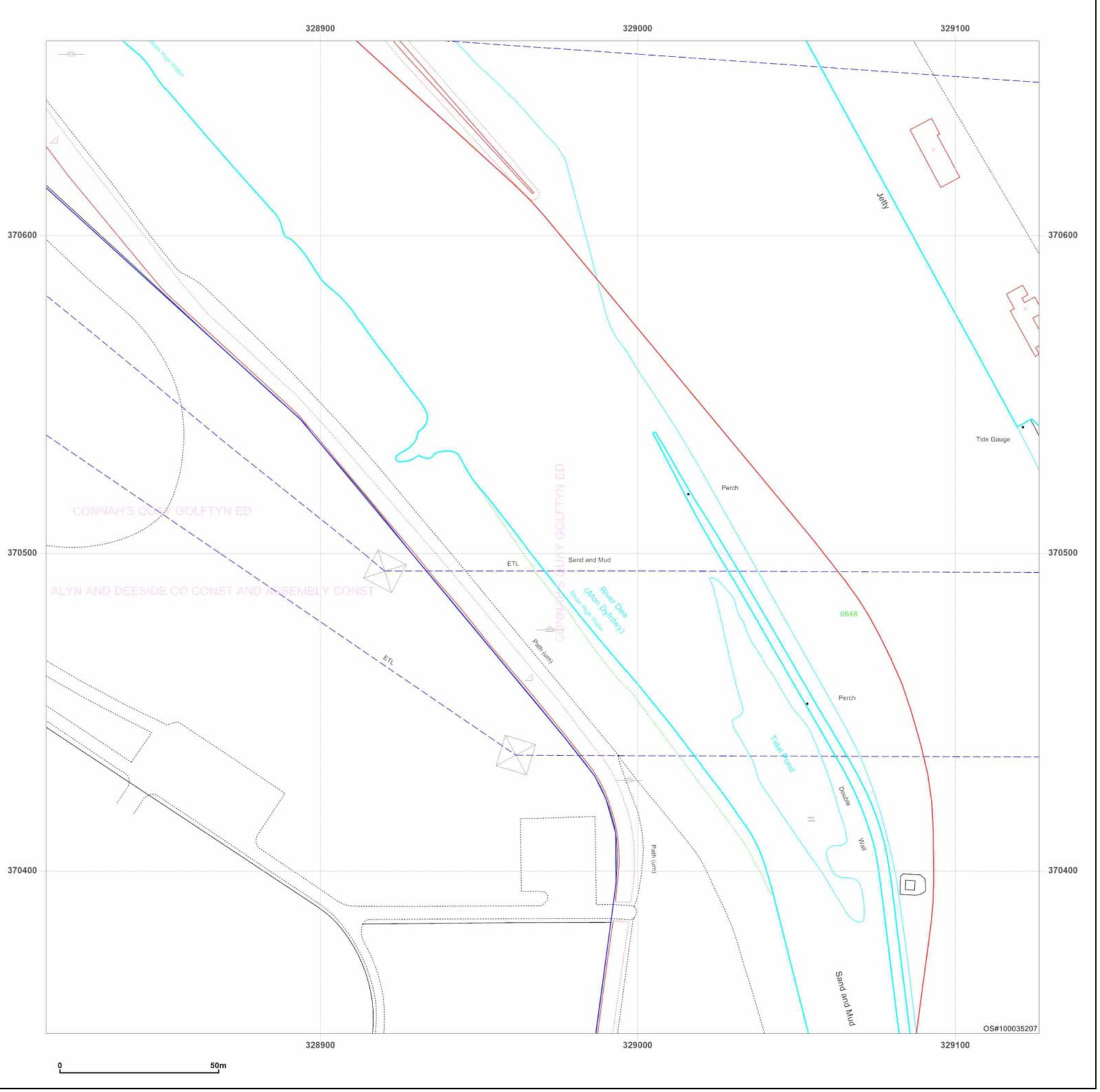
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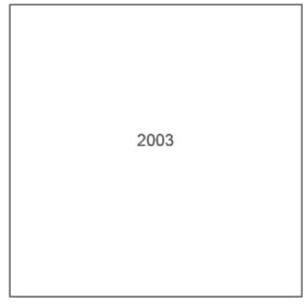
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_Landline_14_2
Grid Ref: 328970, 370505

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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W E
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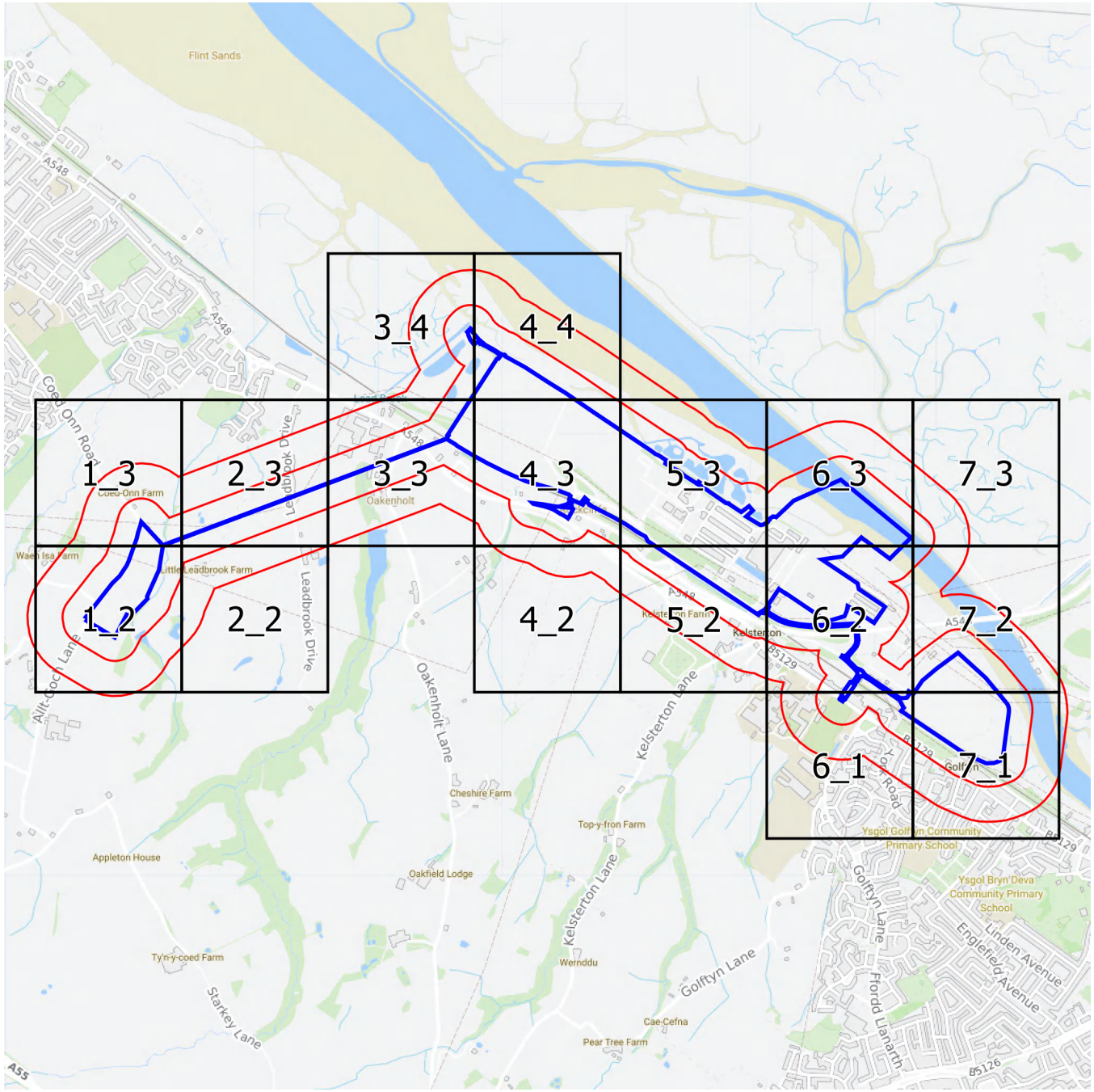
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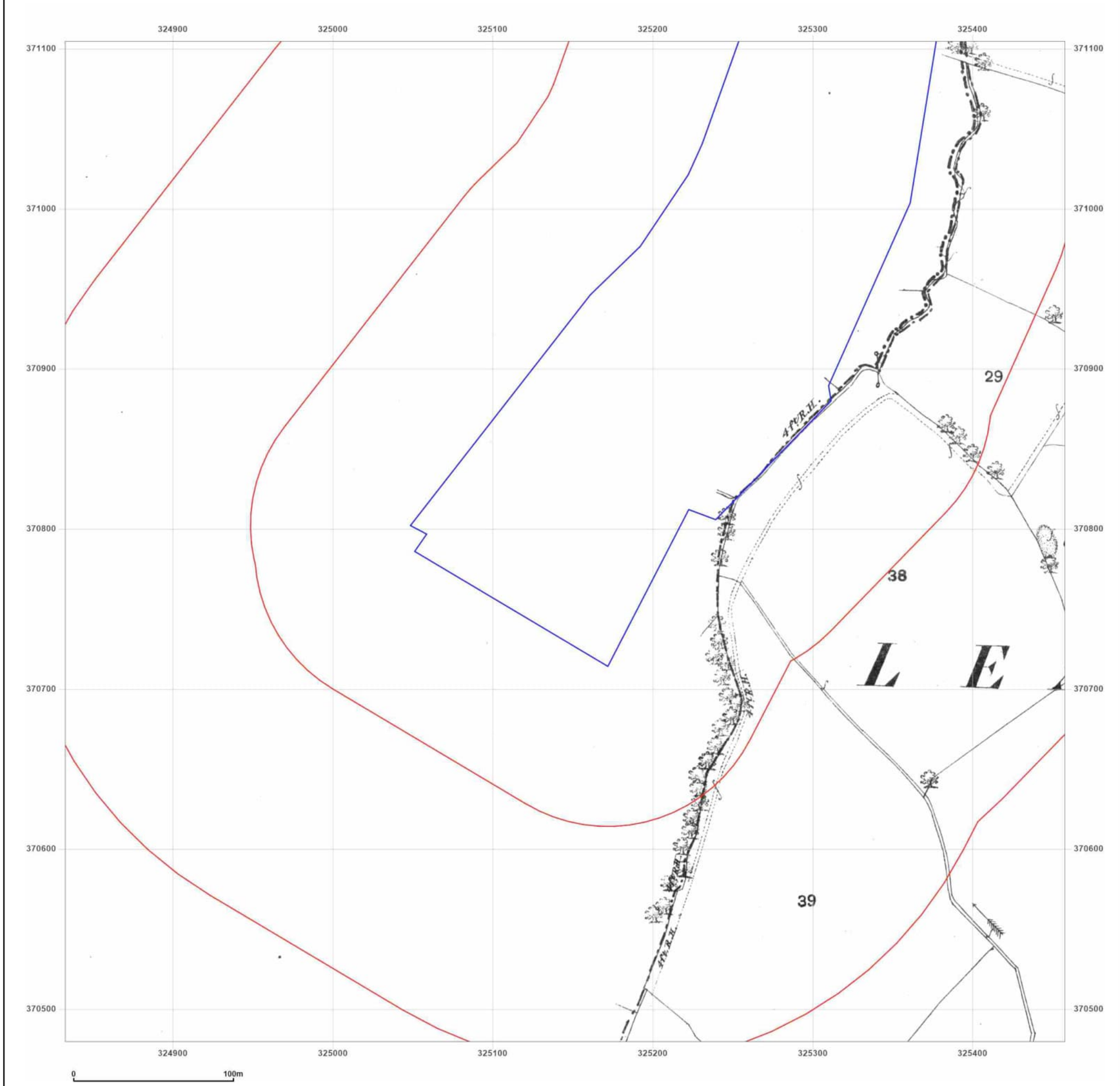
Map legend available at:
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Groundsure INSIGHTS

1:2,500 Scale Grid Index

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
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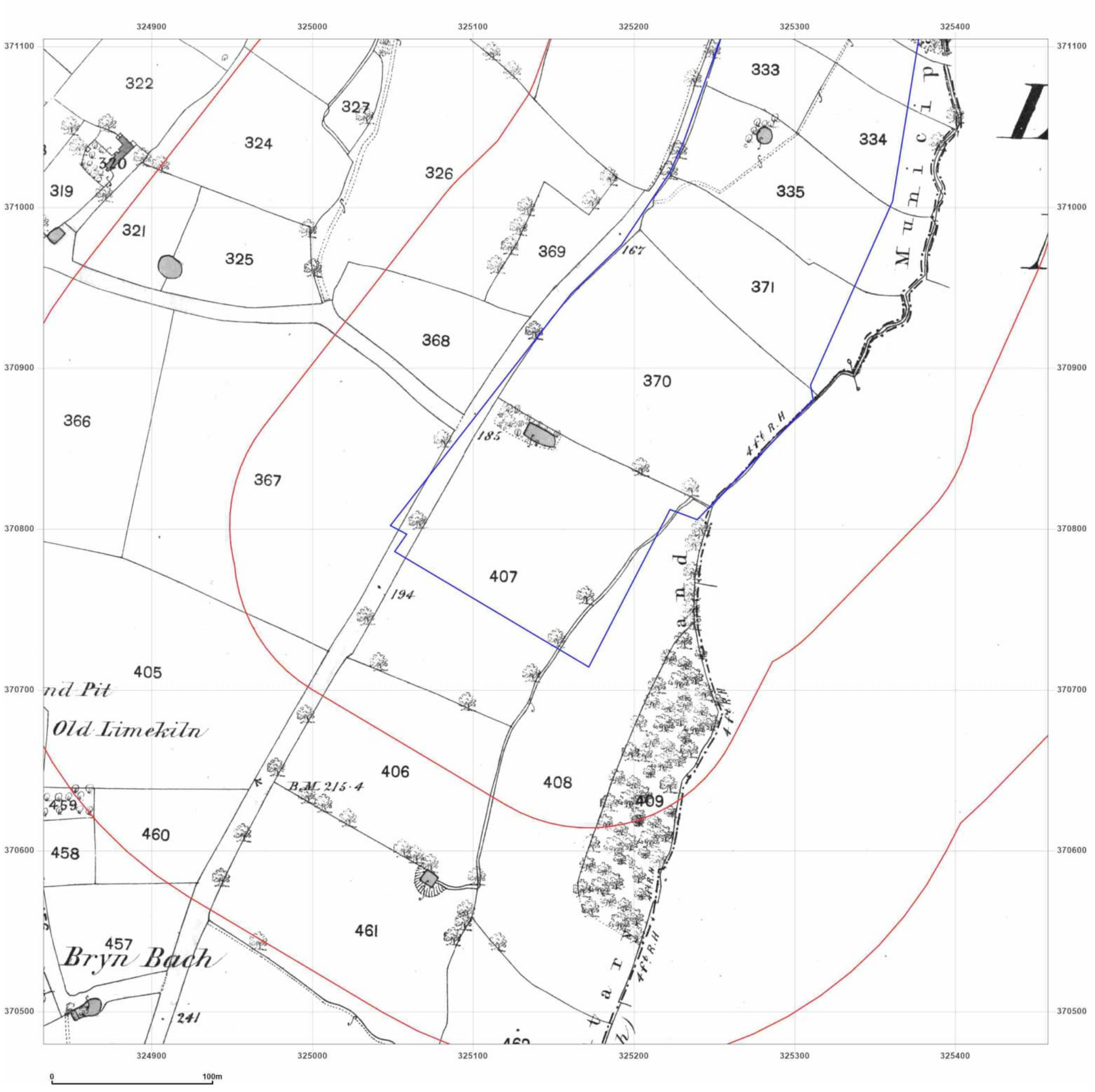
Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

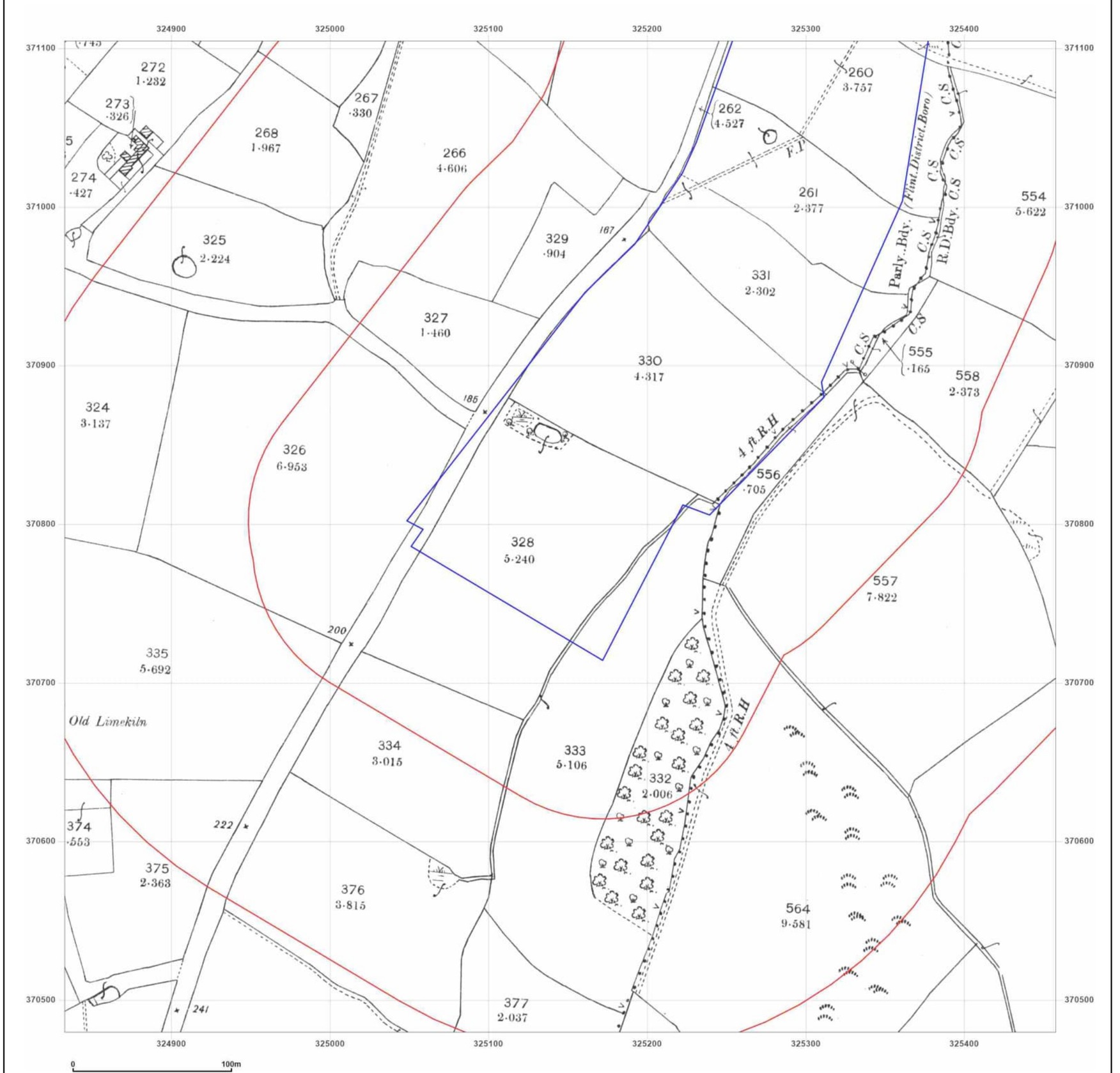
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

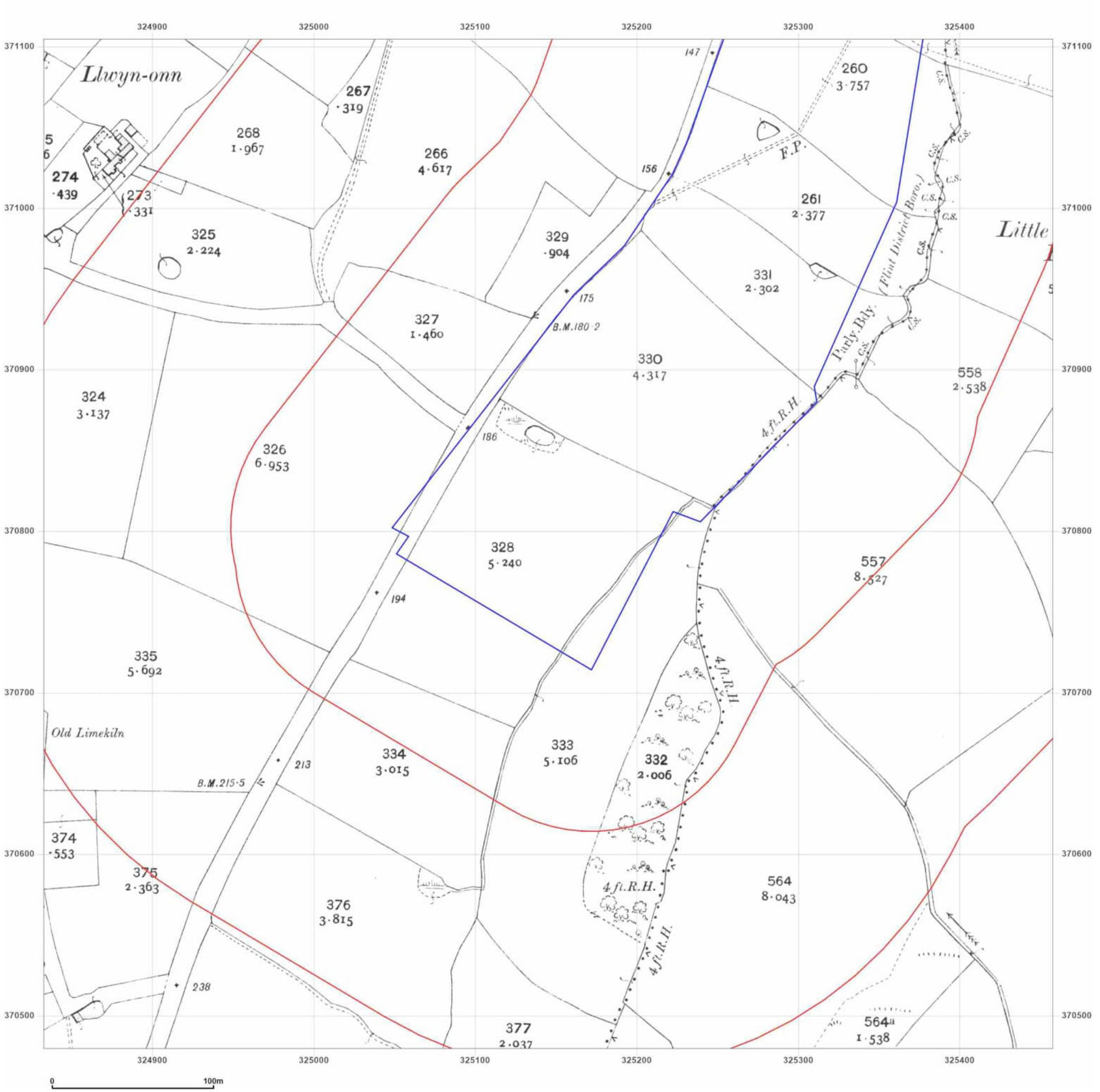
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

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

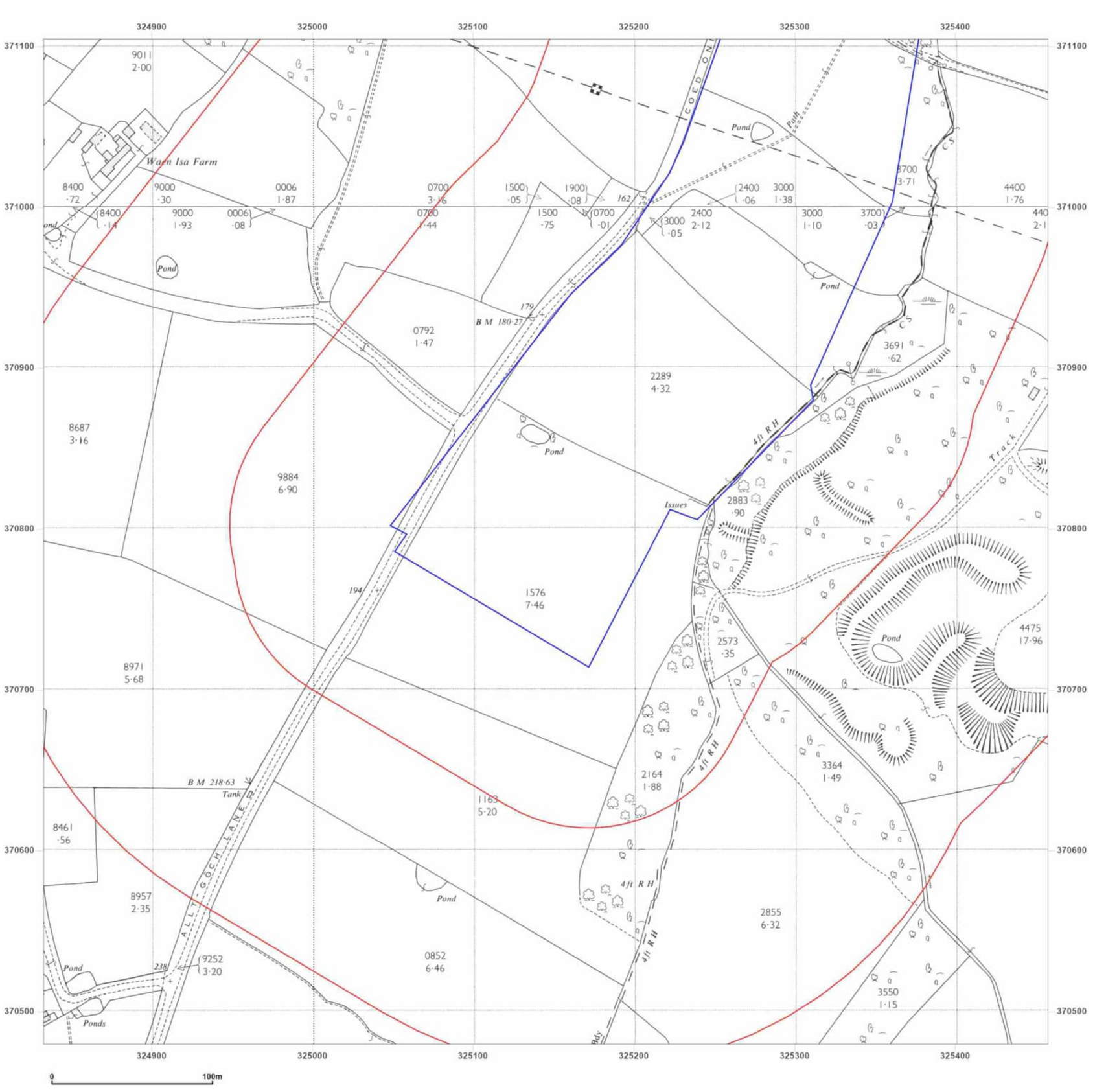
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid

Map date: **1963-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid
Map date: **1964-1965**
Scale: 1:2,500
Printed at: 1:2,500

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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

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1977
Levelled 1959

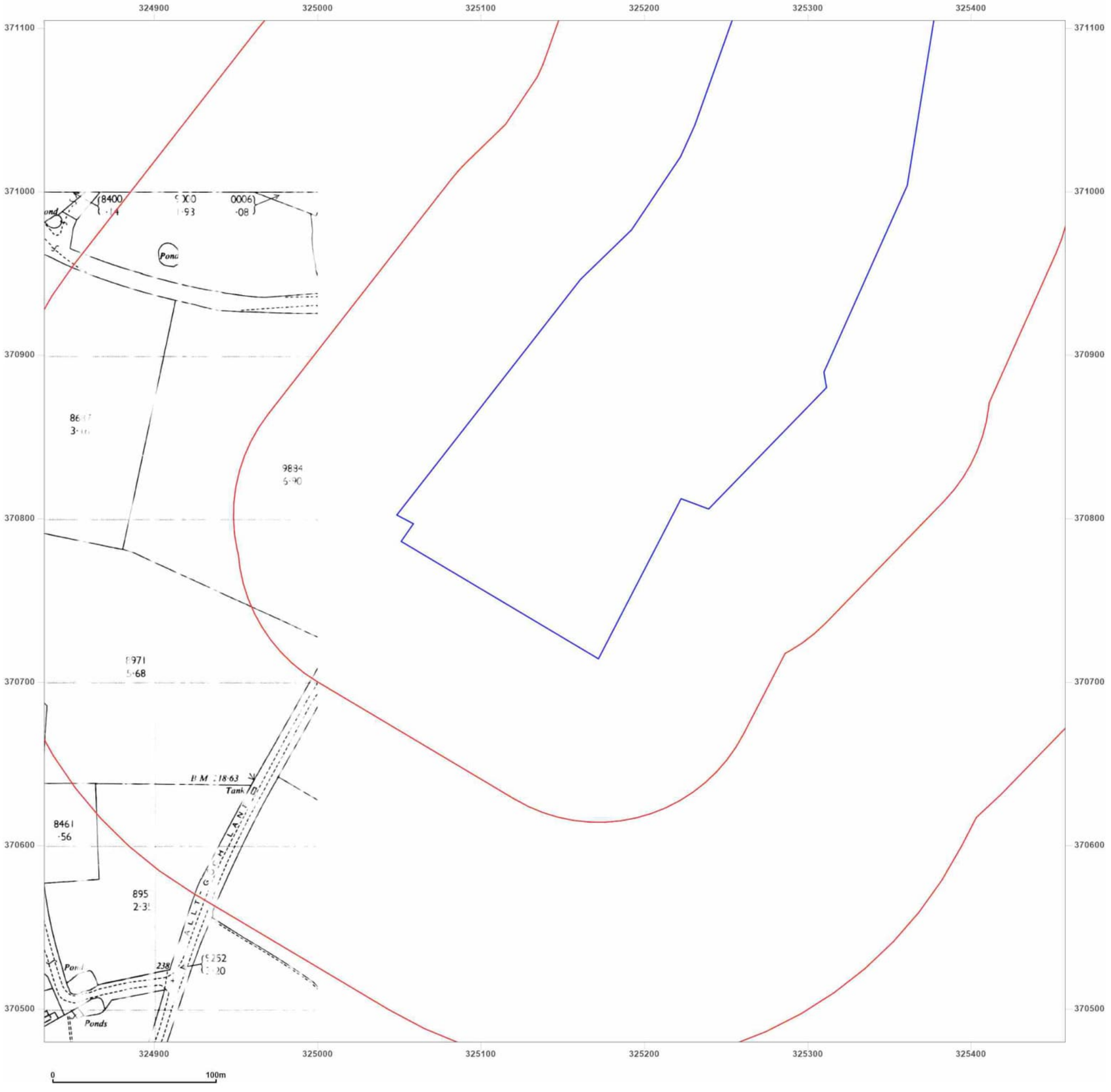
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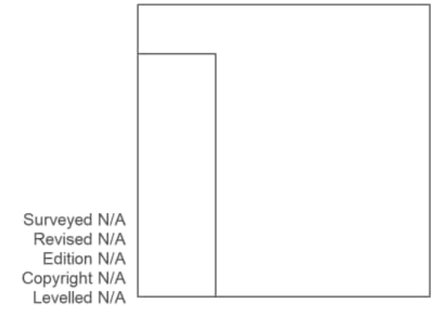
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid
Map date: 1967
Scale: 1:2,500
Printed at: 1:2,500

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

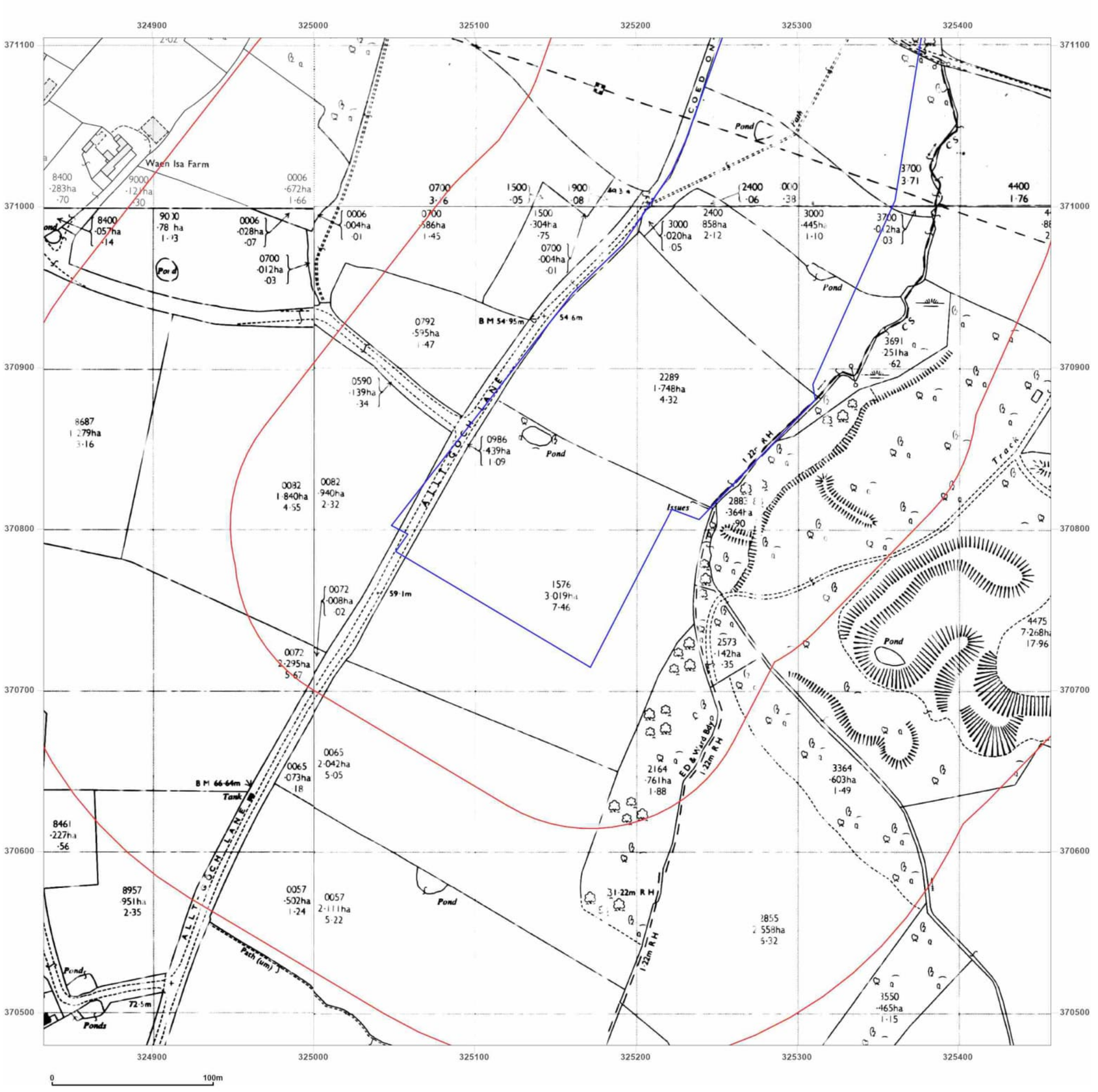
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid
Map date: **1977-1978**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled 1959

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

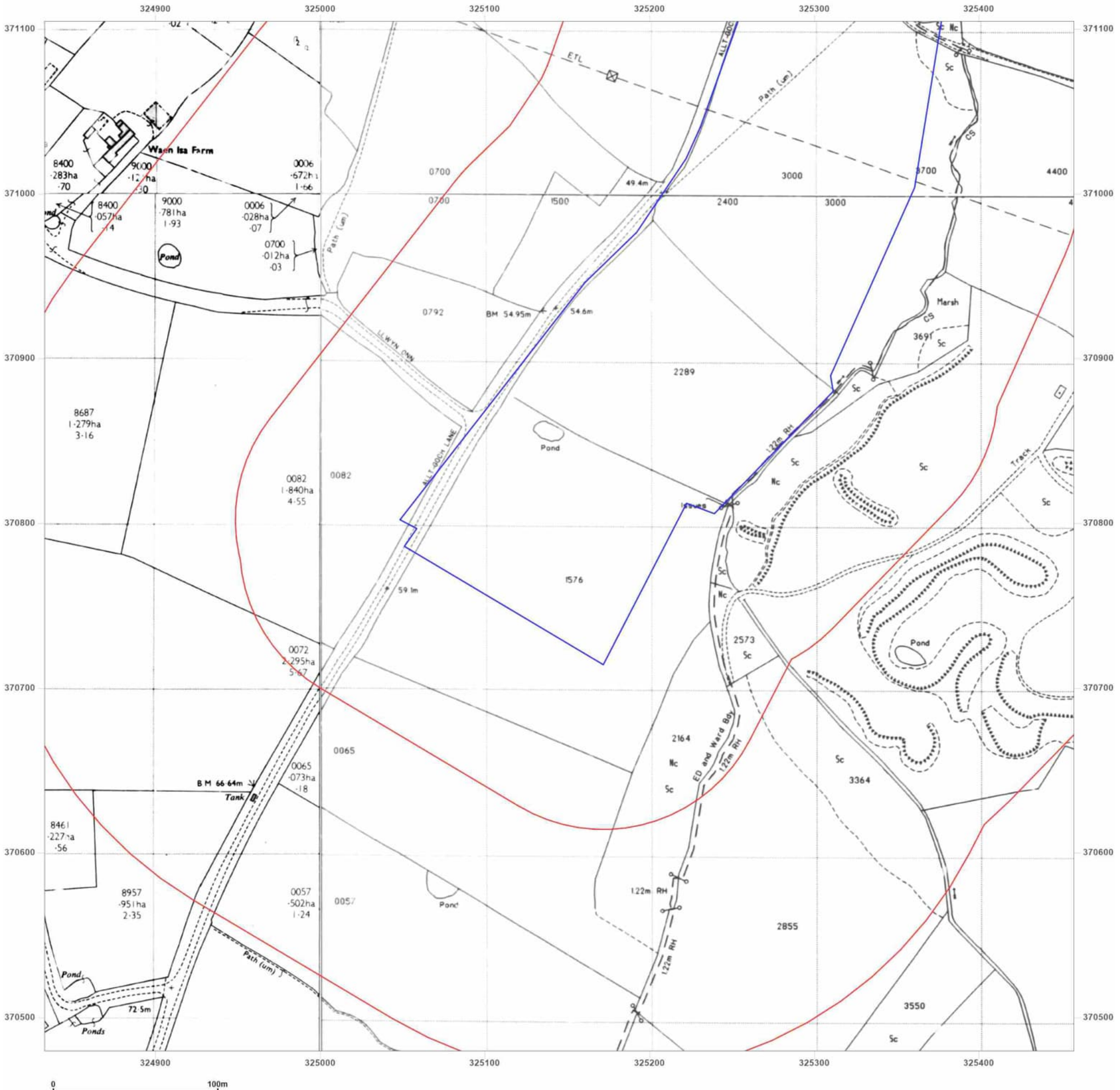
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid
Map date: **1991-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1993 Revised N/A Edition N/A Copyright 1993 Levelled N/A
Surveyed 1959 Revised 1991 Edition N/A Copyright 1991 Levelled 1959	Surveyed 1993 Revised N/A Edition N/A Copyright 1993 Levelled N/A

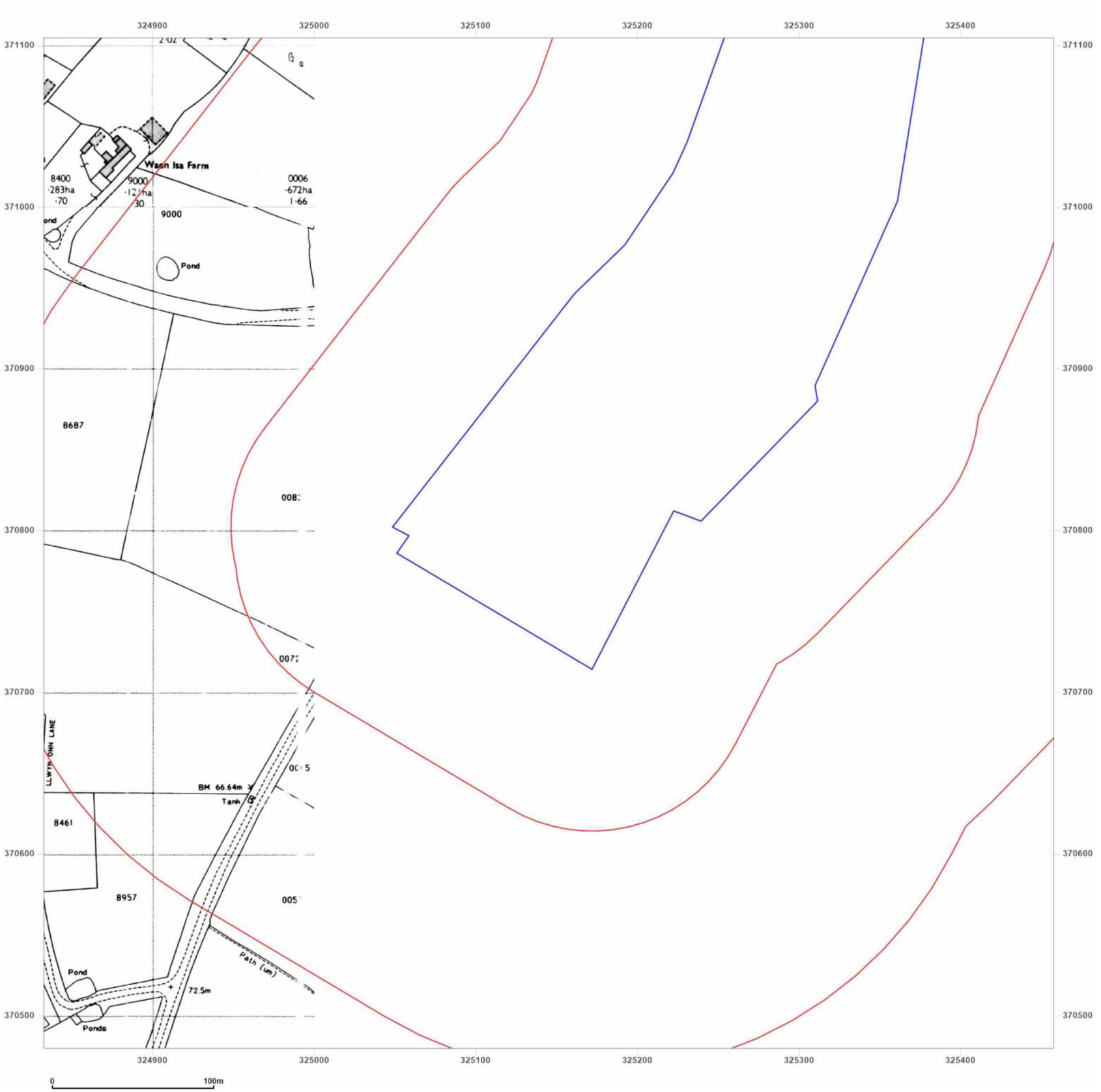
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_2
Grid Ref: 325145, 370792

Map Name: National Grid
Map date: **1991-1994**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1959
Revised 1991
Edition N/A
Copyright 1991
Levelled 1959

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

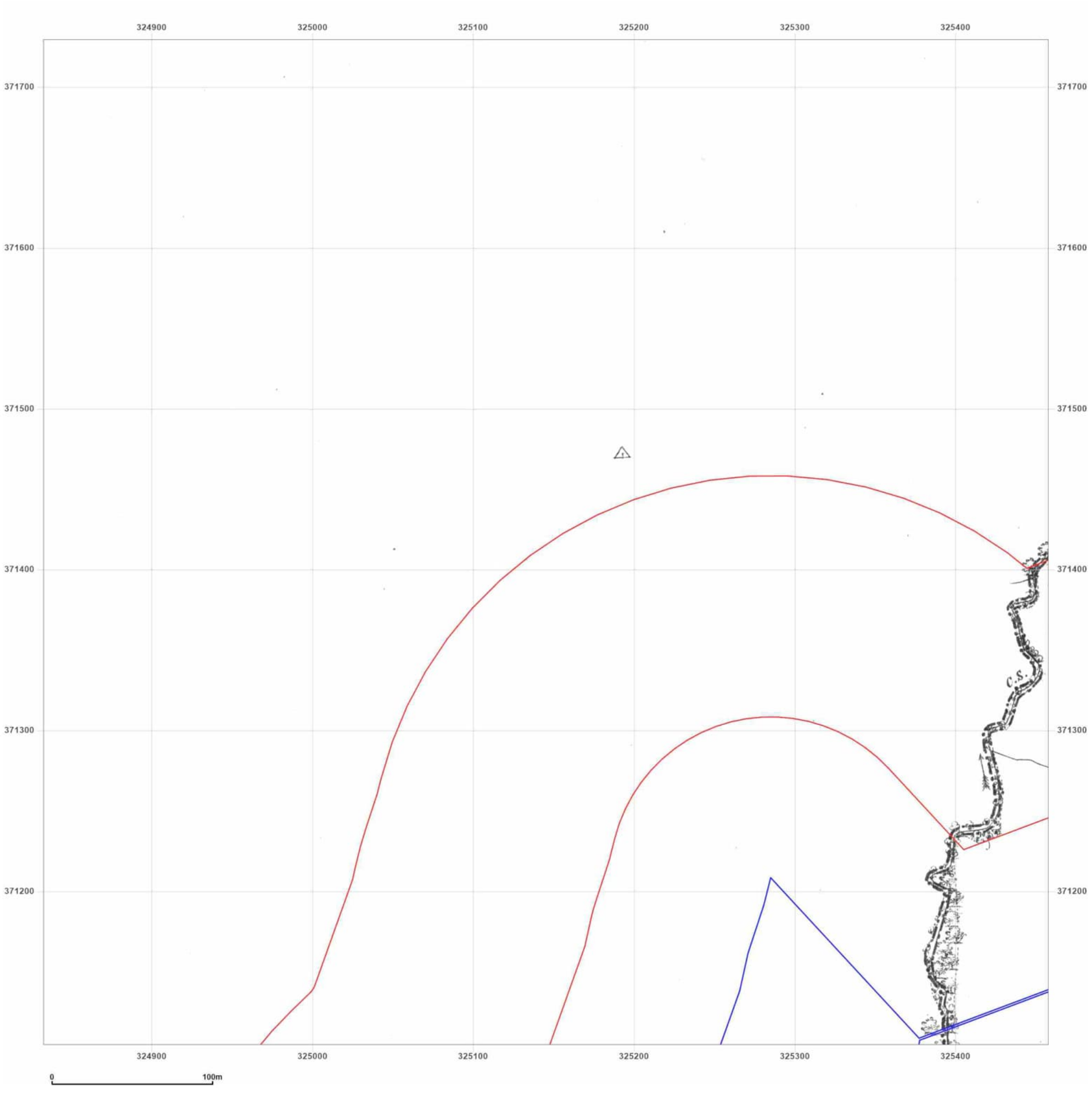
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

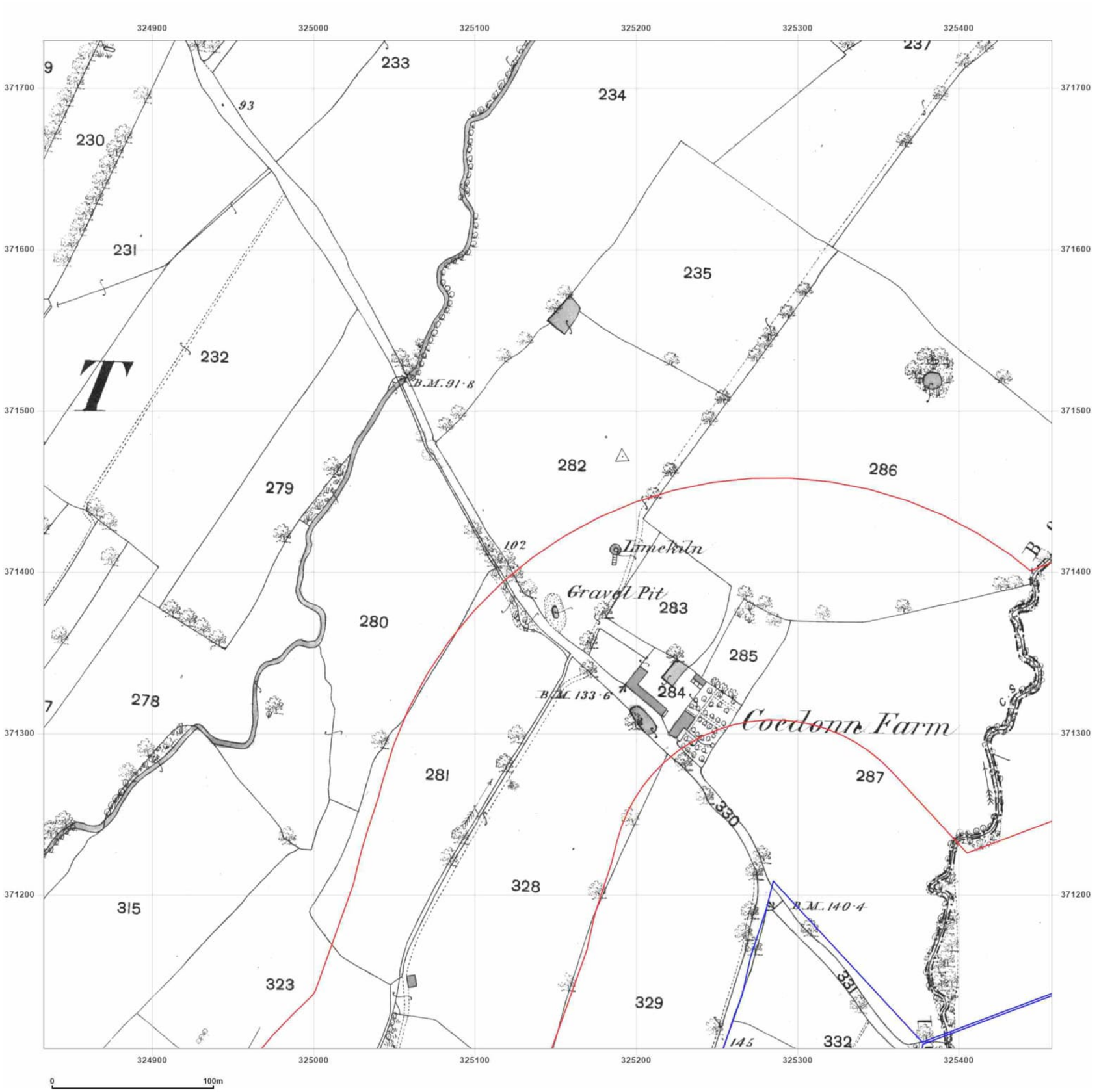
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

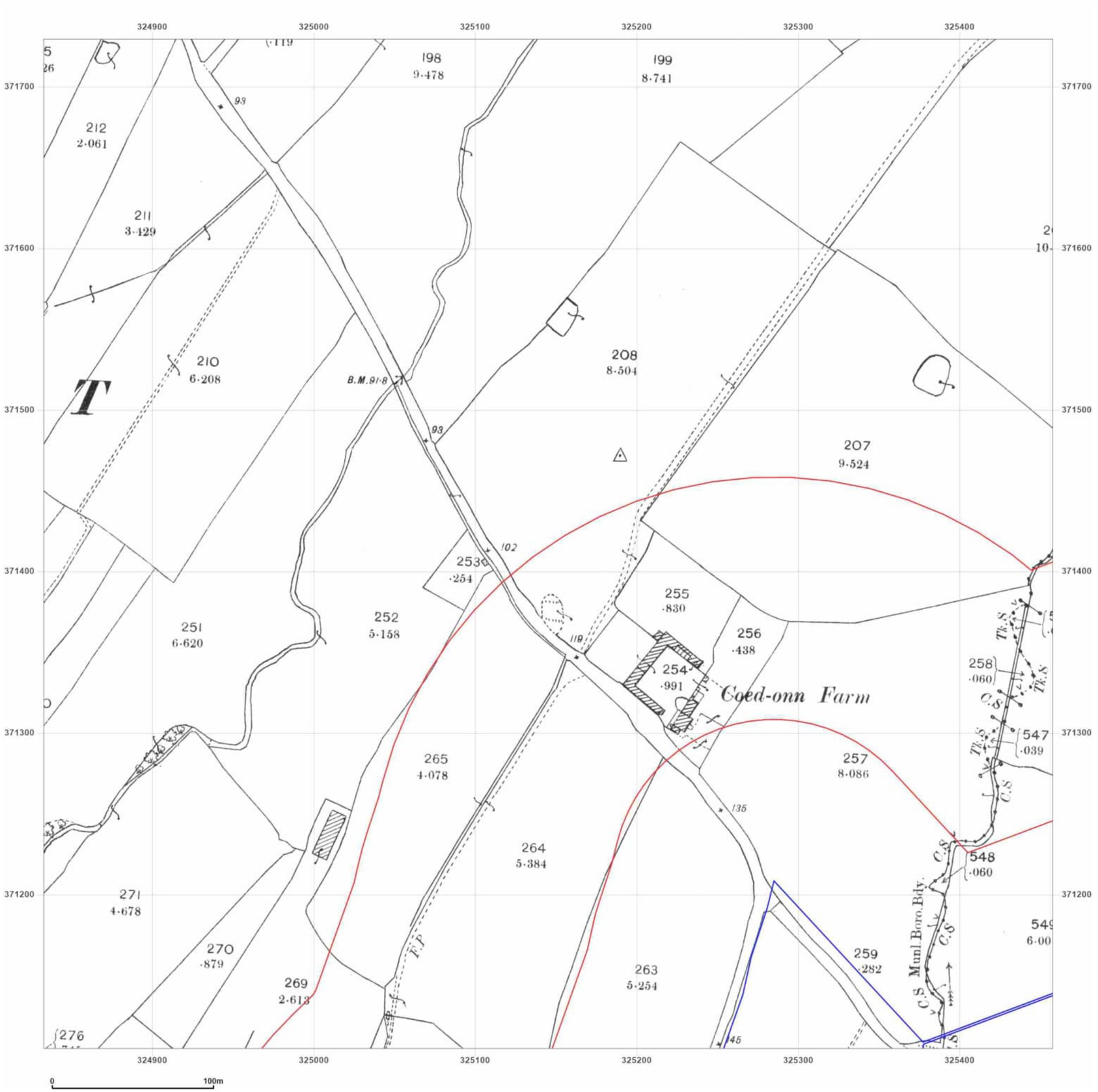
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

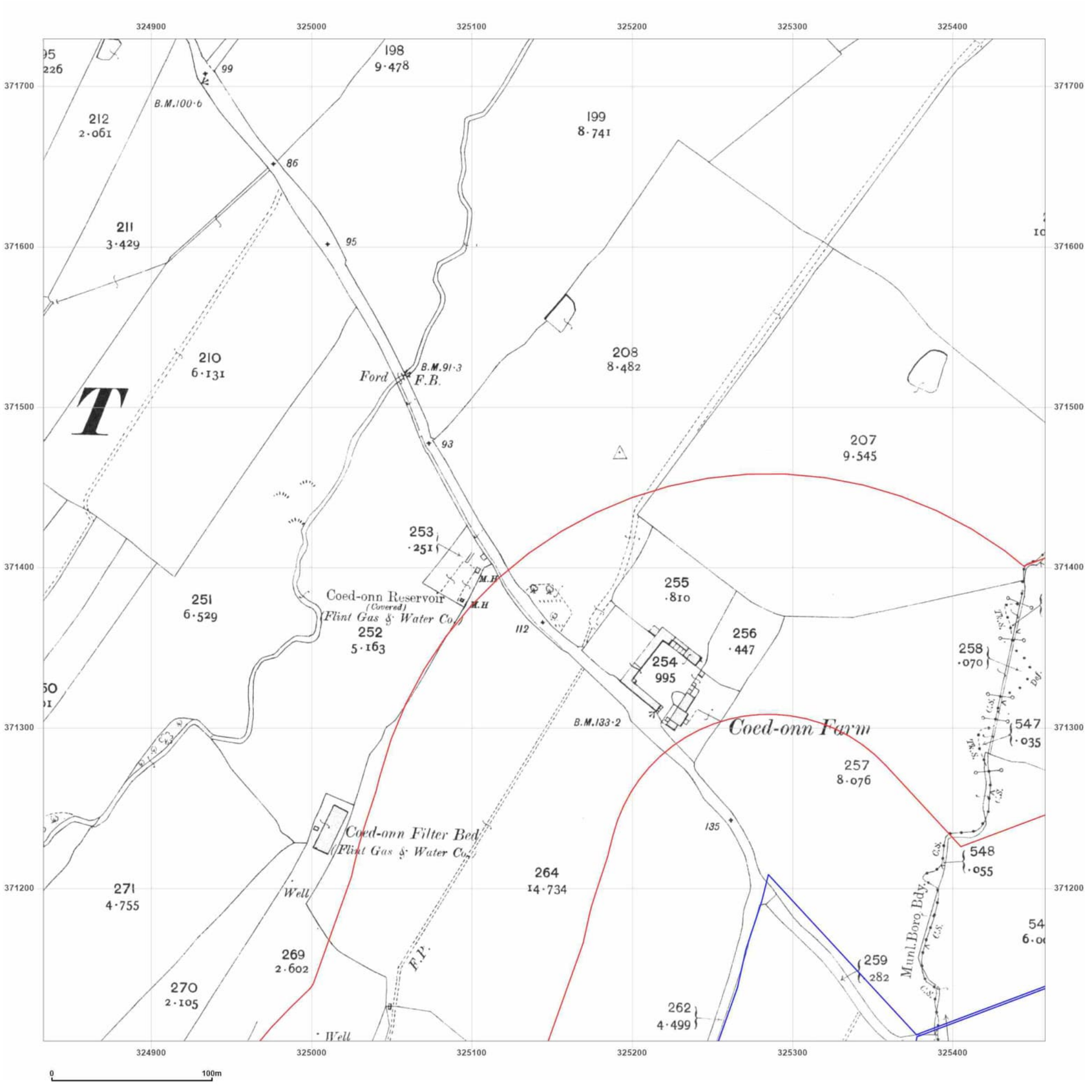
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: **1963**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1959

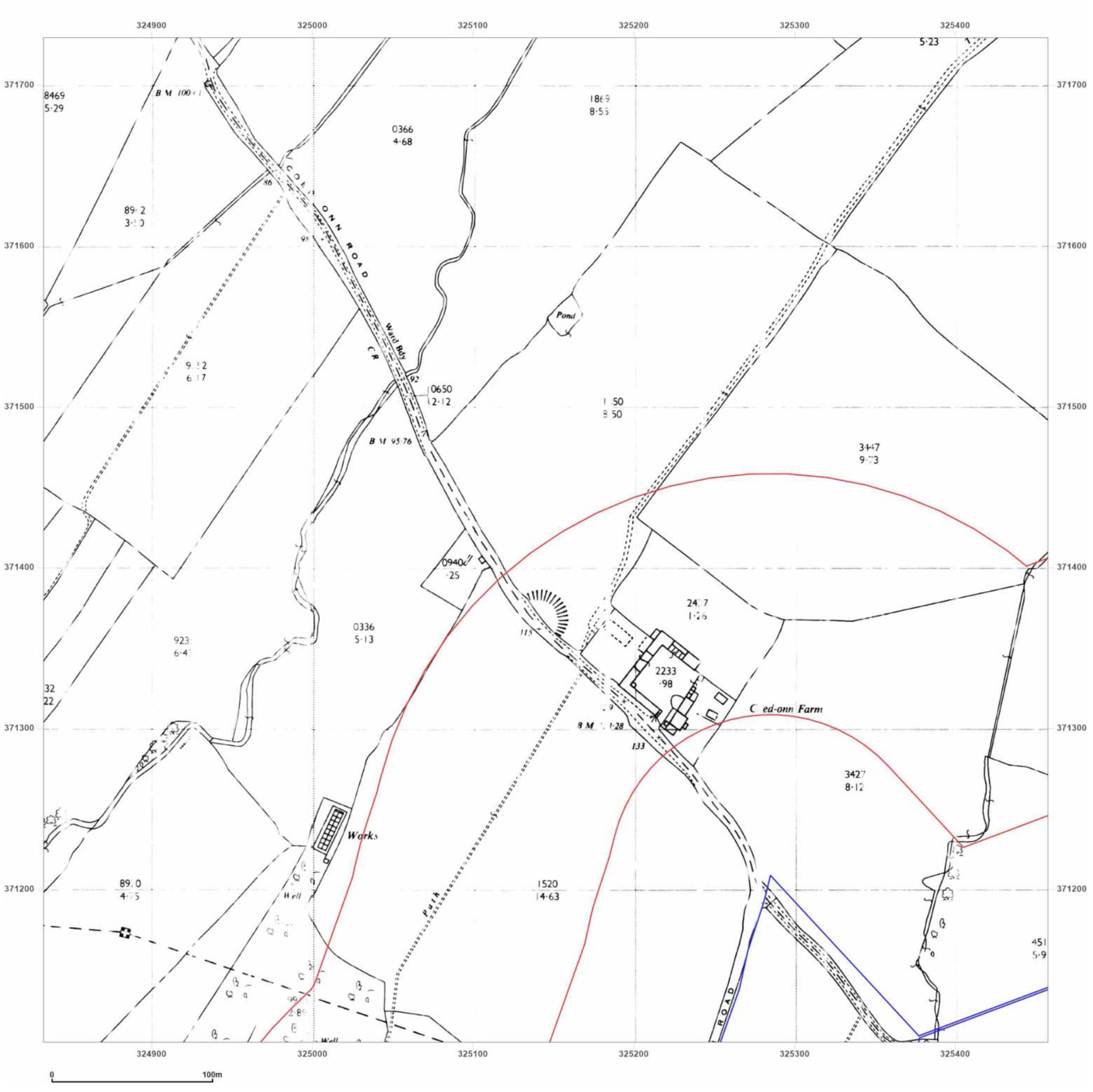
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: 1964
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

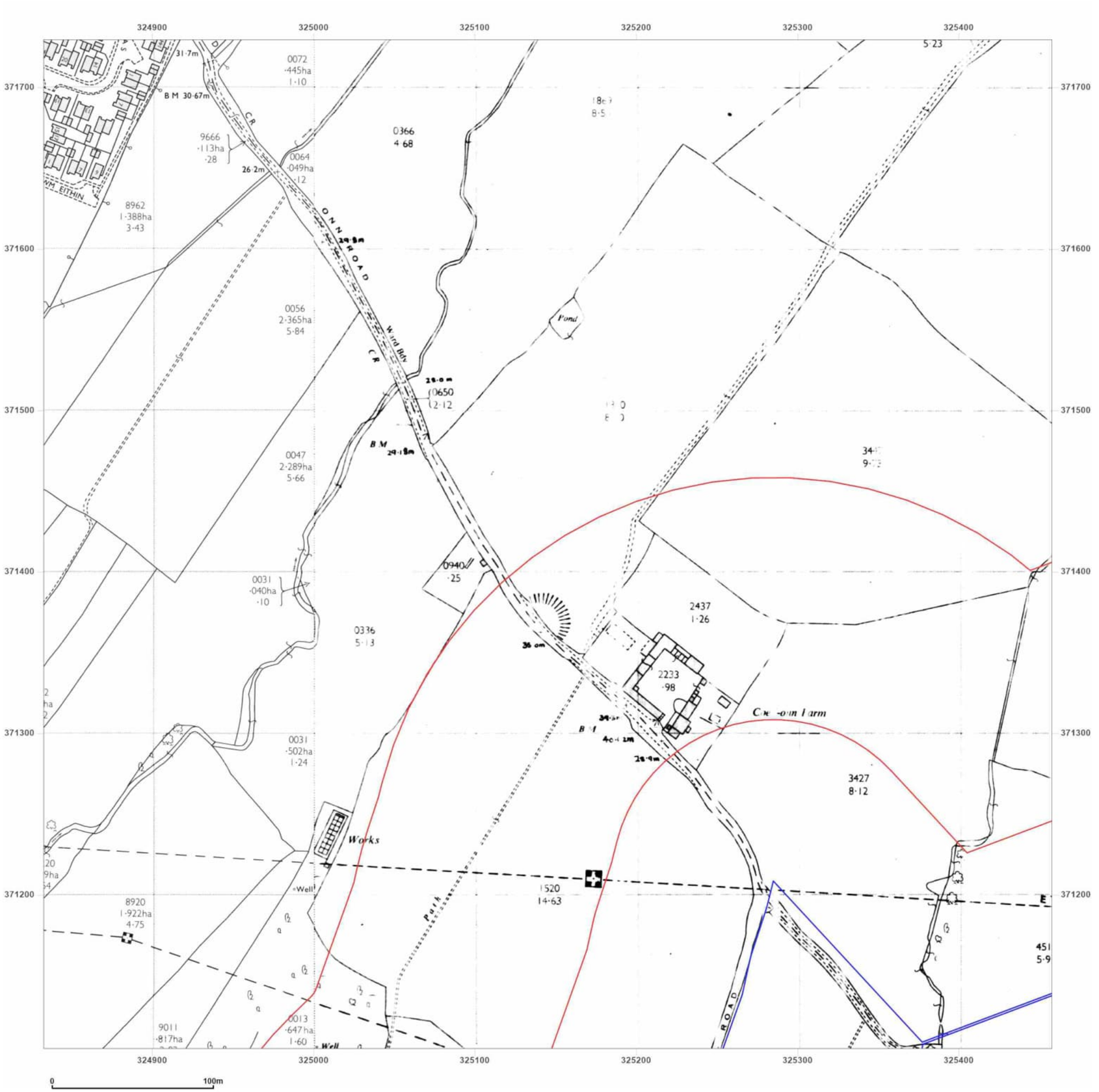
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: **1977-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1978	Surveyed N/A
Revised 1978	Revised N/A
Edition N/A	Edition N/A
Copyright 1978	Copyright N/A
Levelled 1959	Levelled N/A

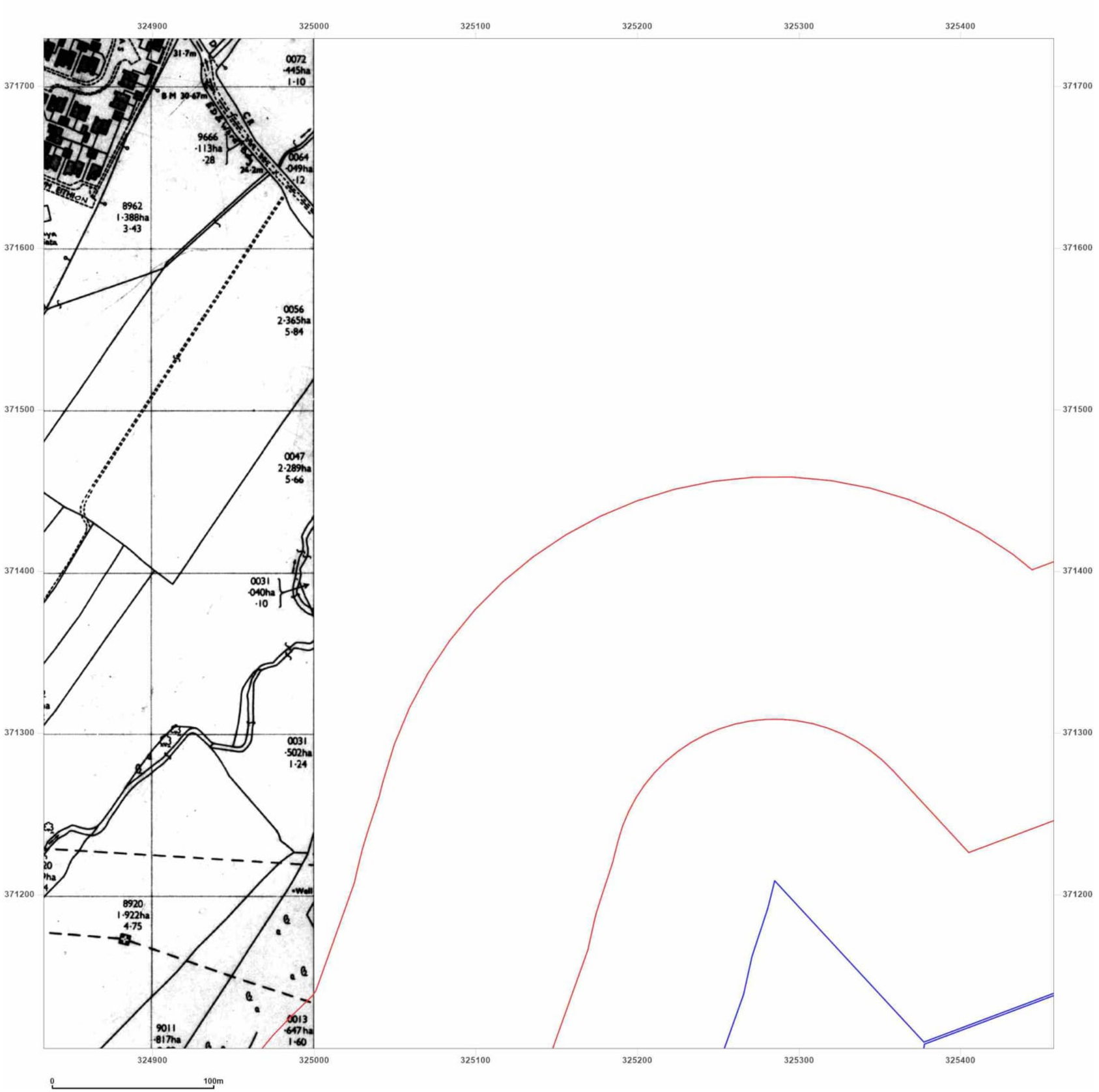
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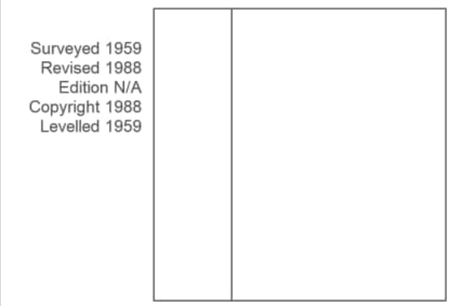
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: 1988
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959



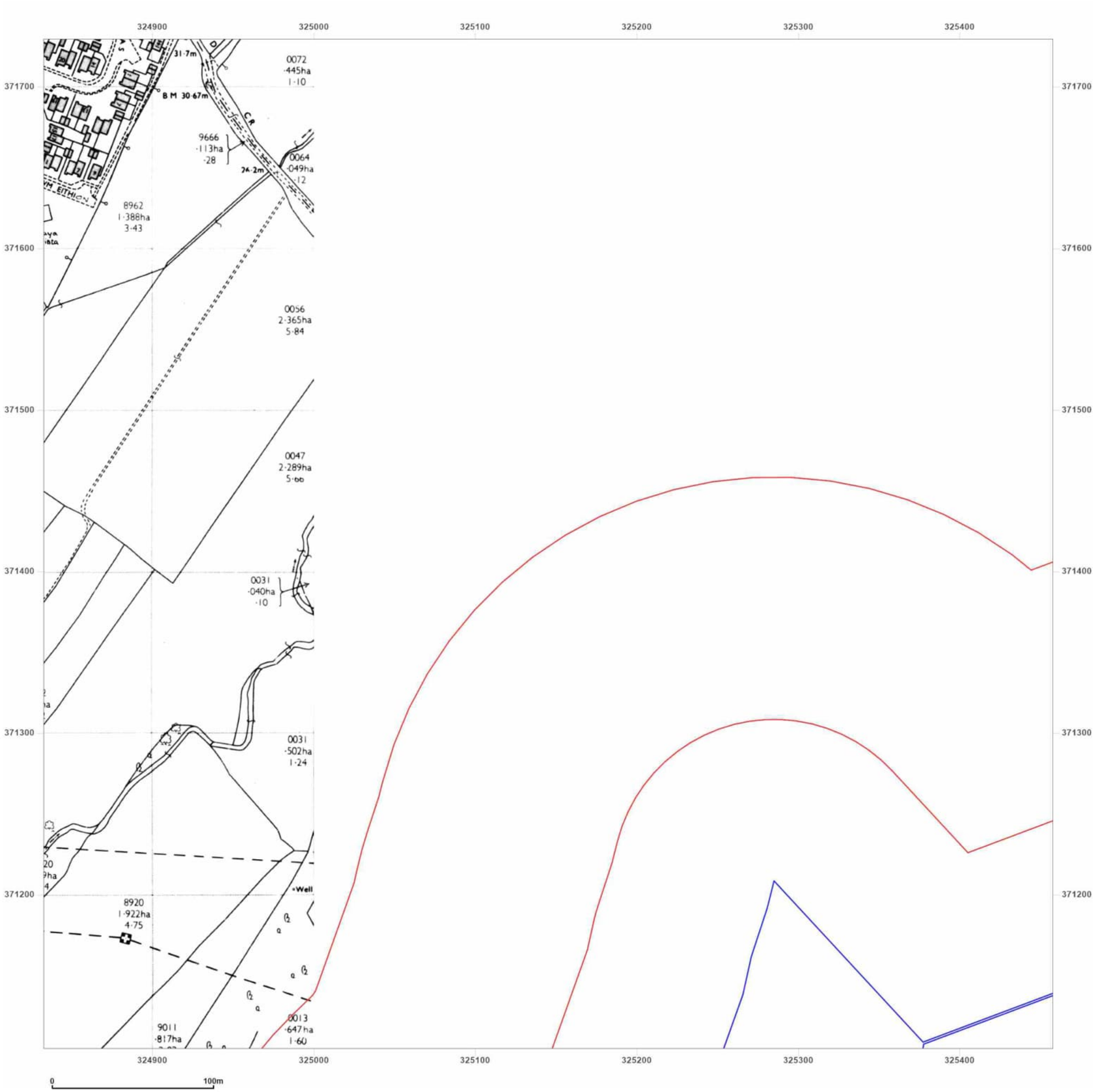
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid

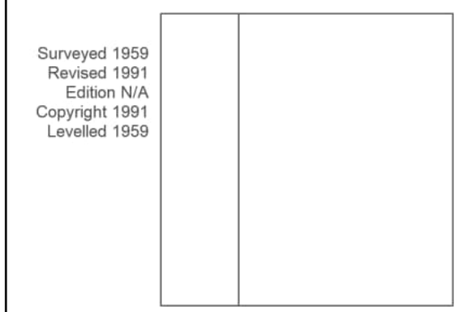
Map date: **1991**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1959
Revised 1991
Edition N/A
Copyright 1991
Levelled 1959



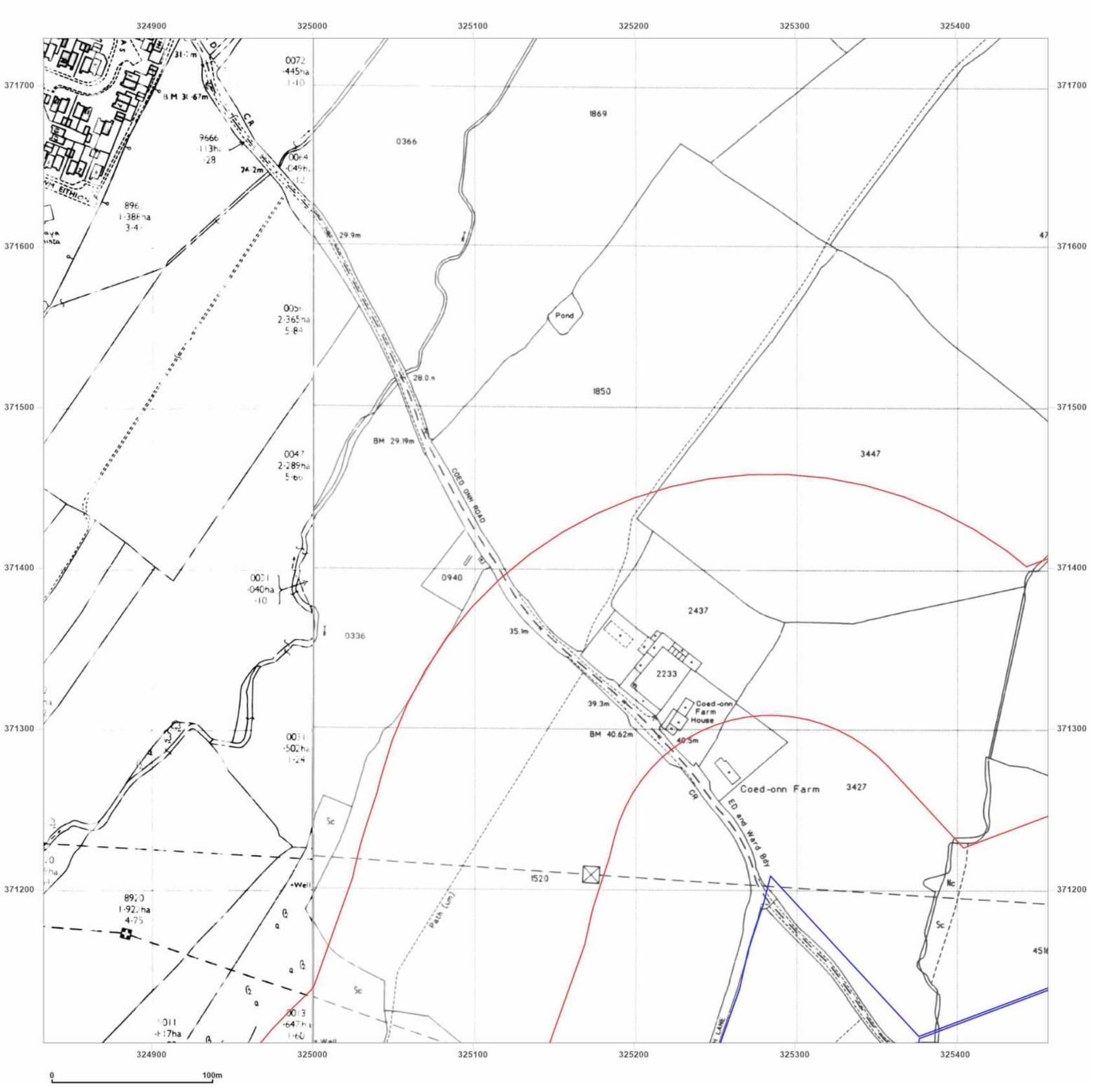
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: **1991-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

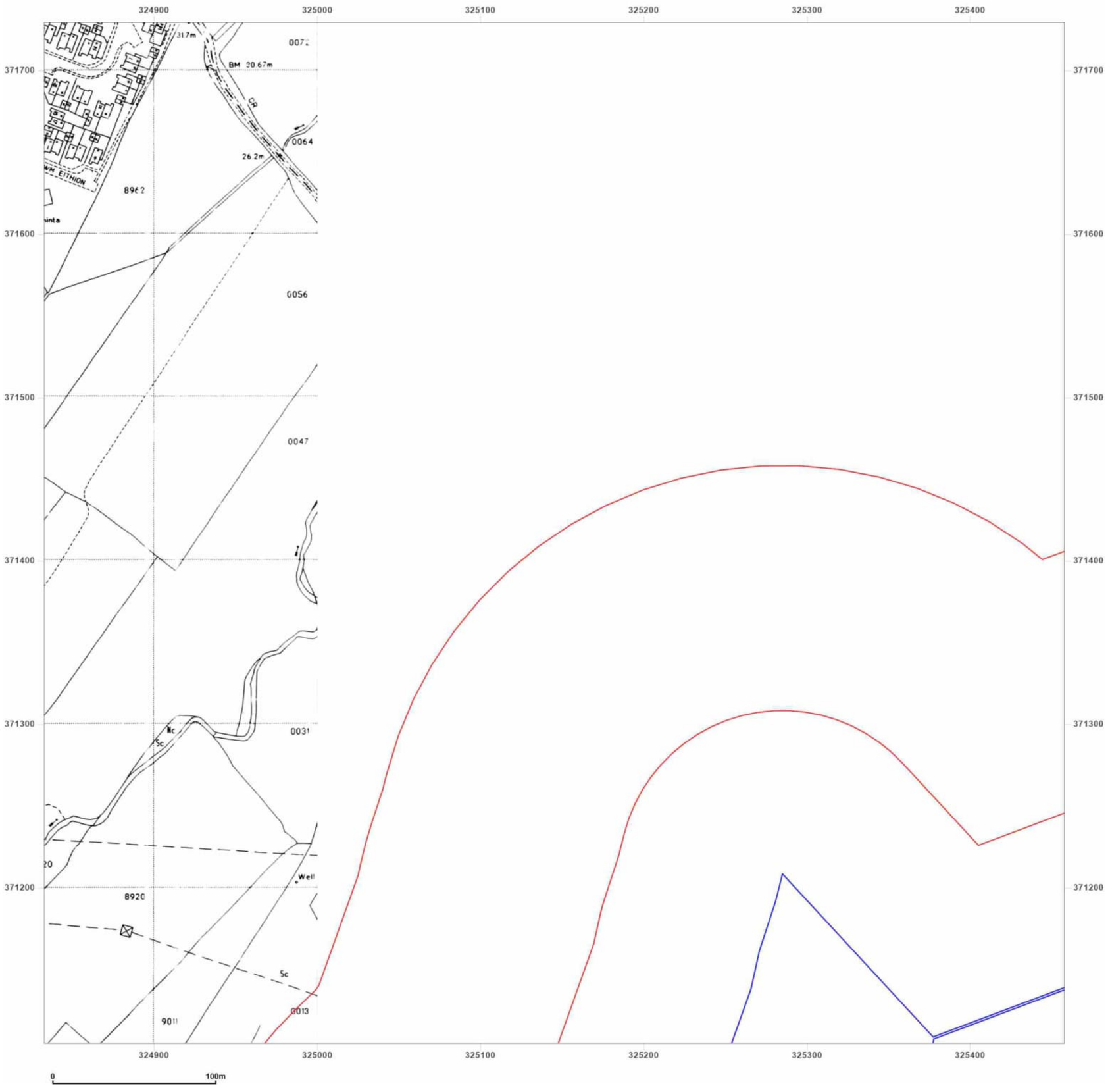
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: 1994
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

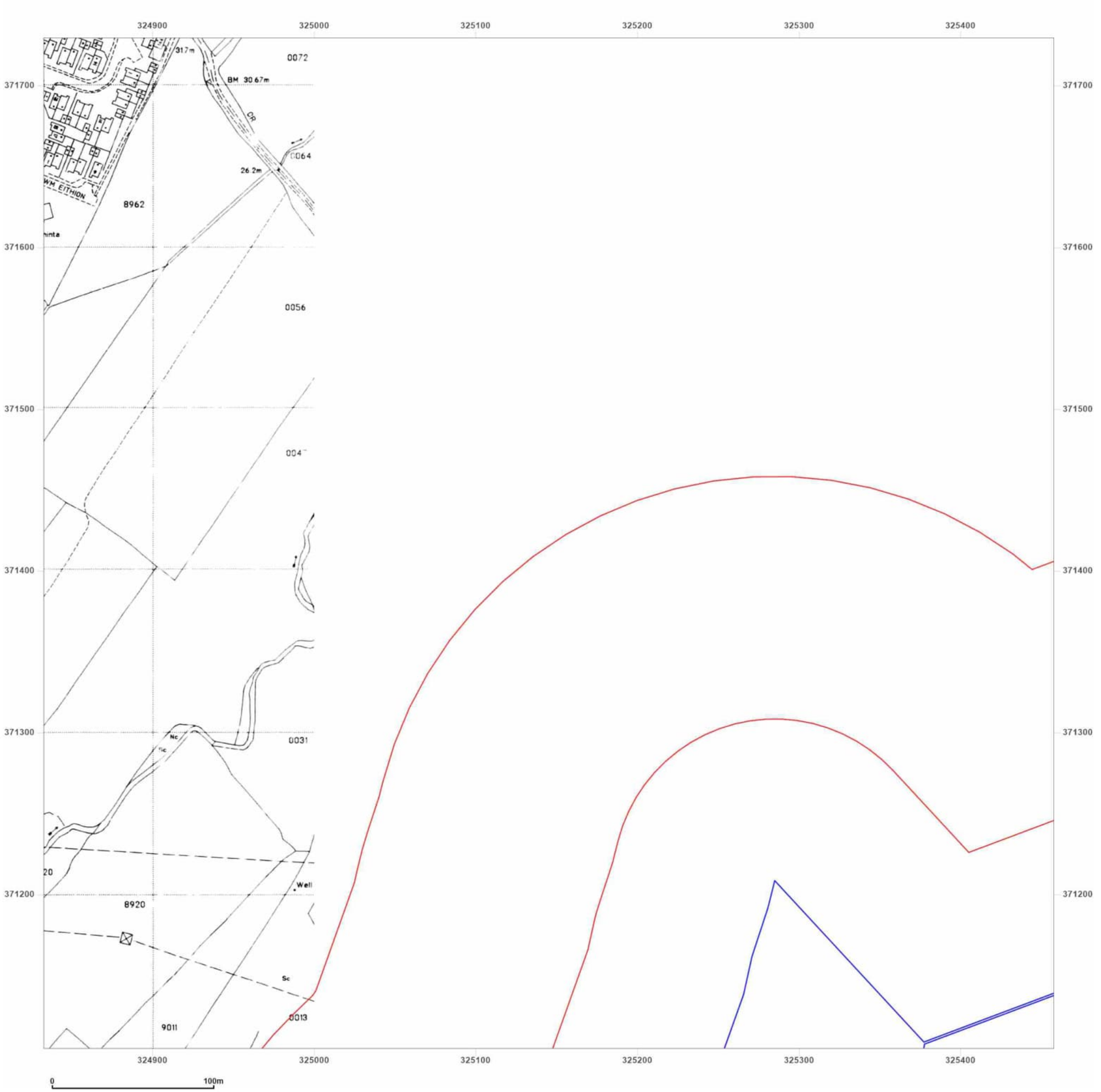


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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: 1994
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

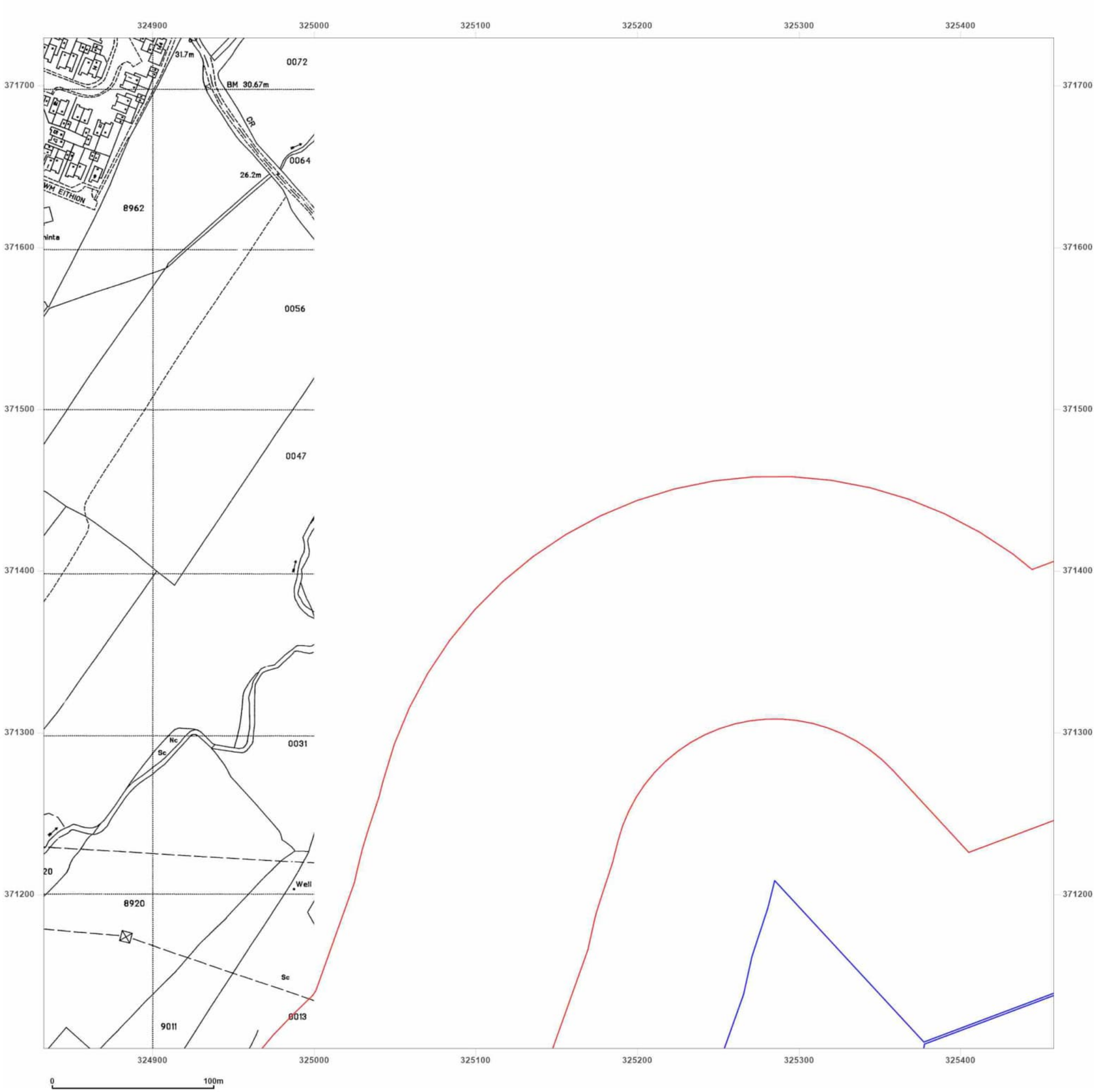
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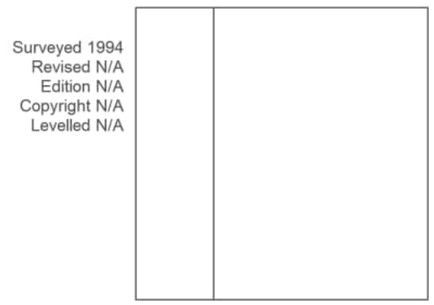
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Report Ref: GSIP-2023-13855-17626_LS_1_3
Grid Ref: 325145, 371417

Map Name: National Grid
Map date: **1994**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1994
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



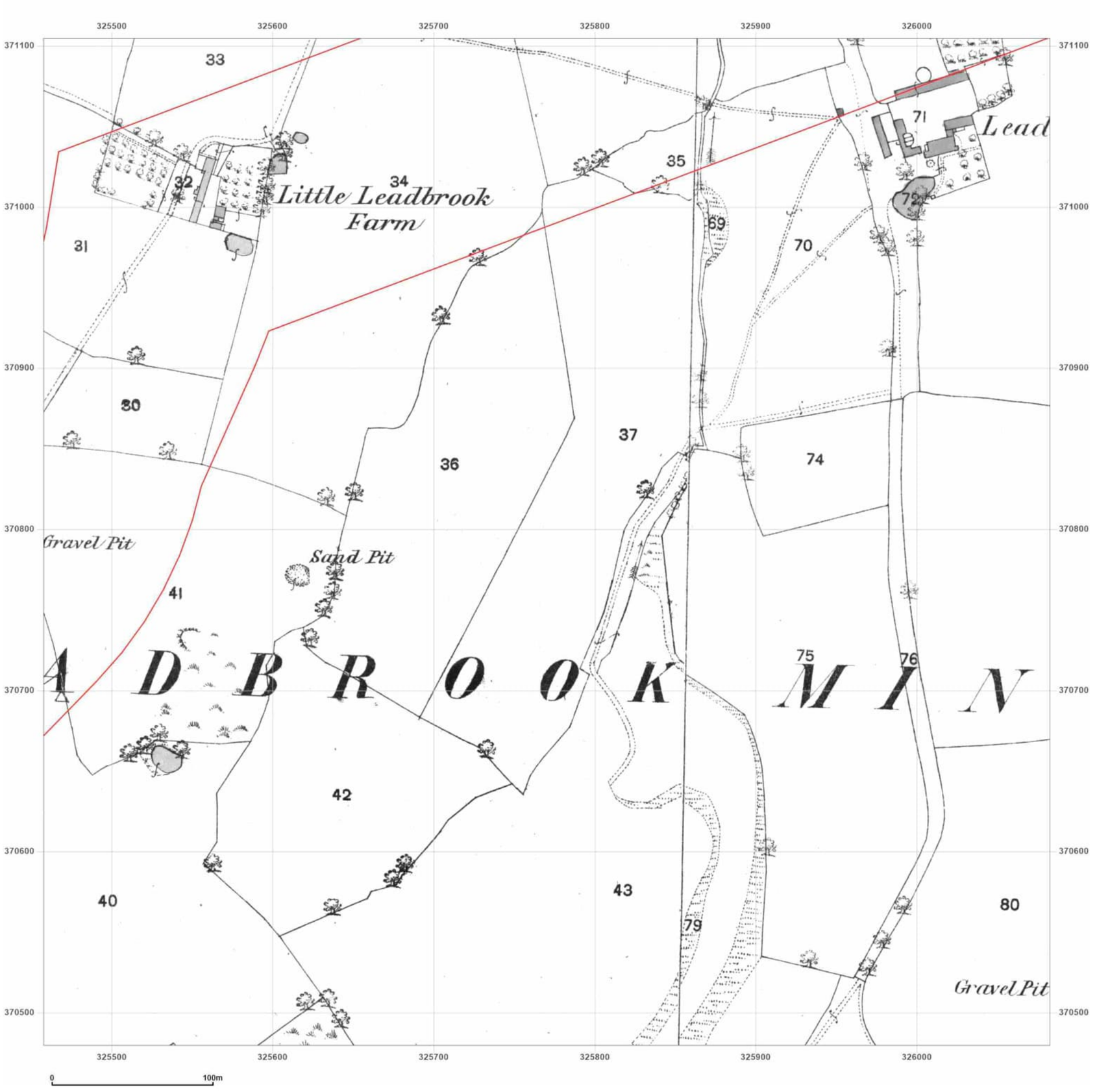
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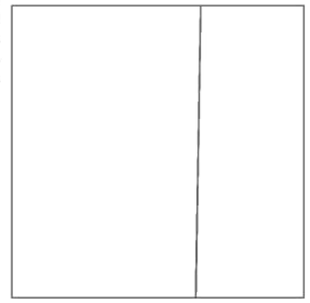
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

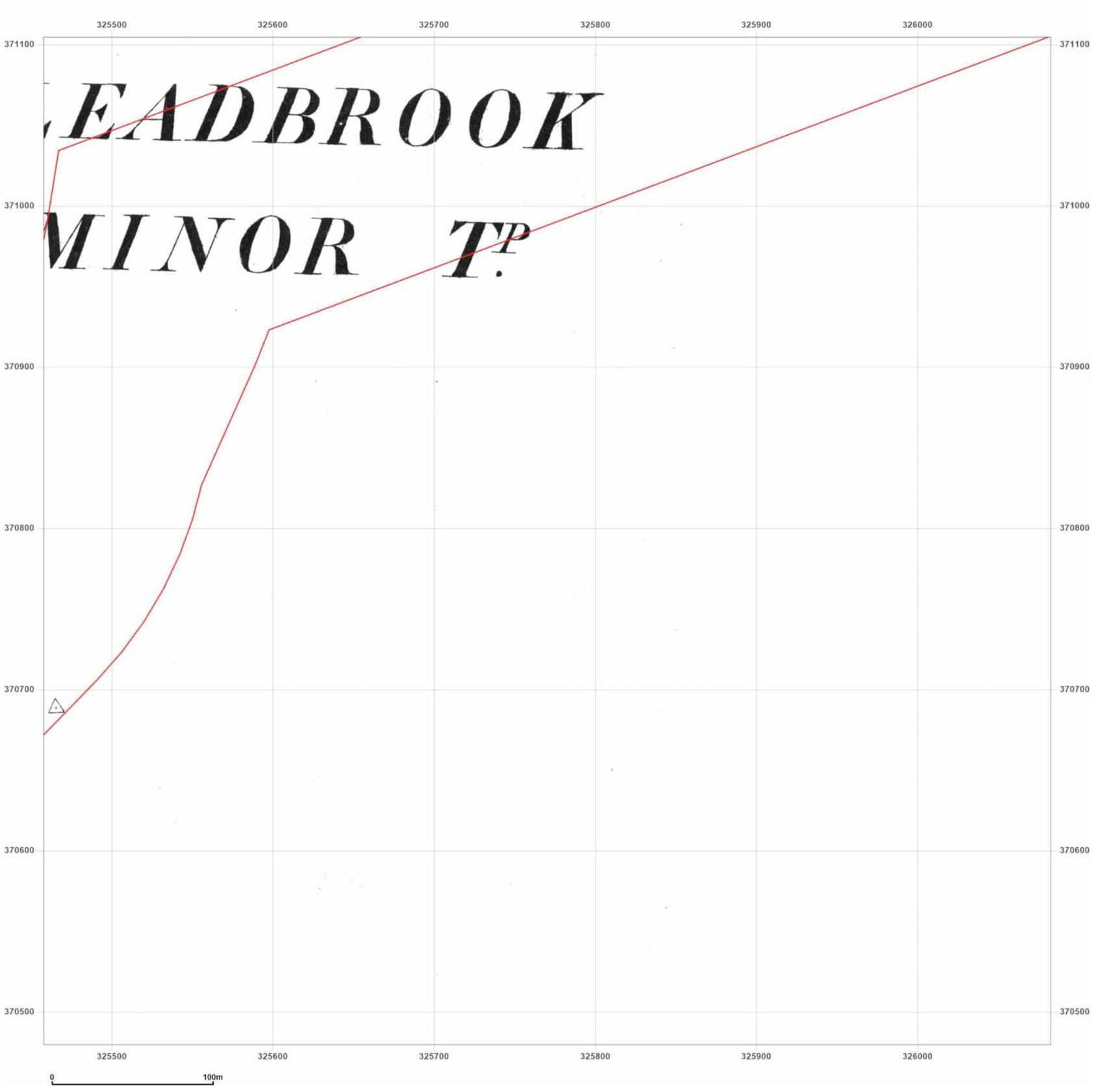
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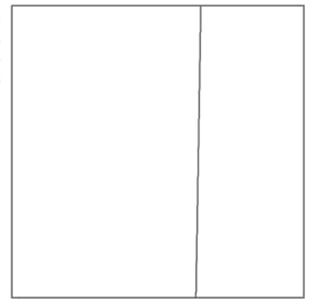
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



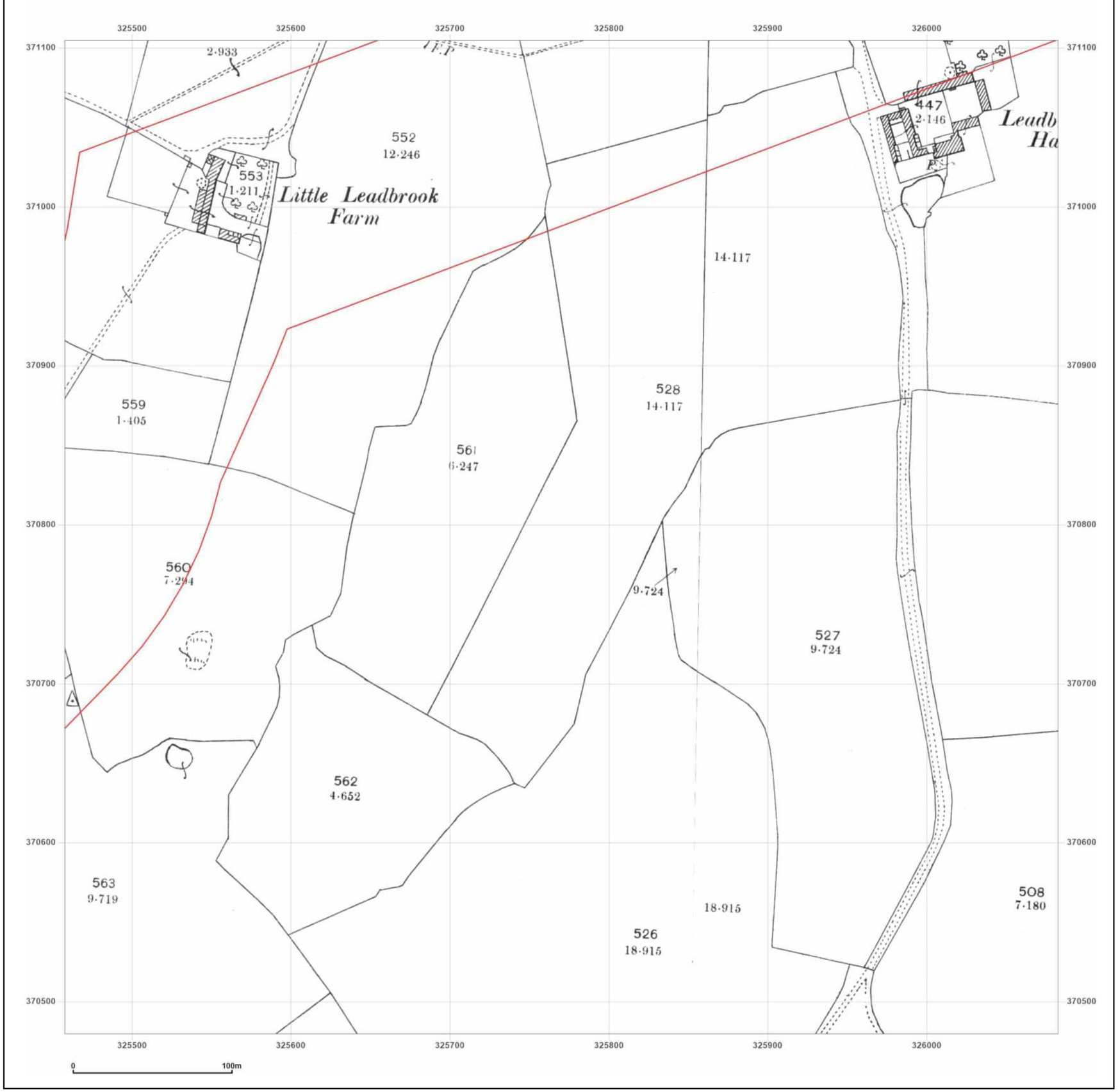
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Production date: 07 March 2024

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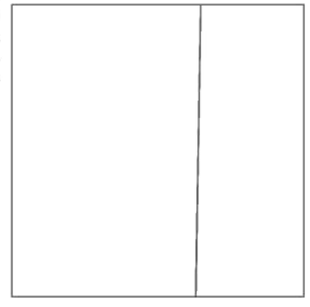
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

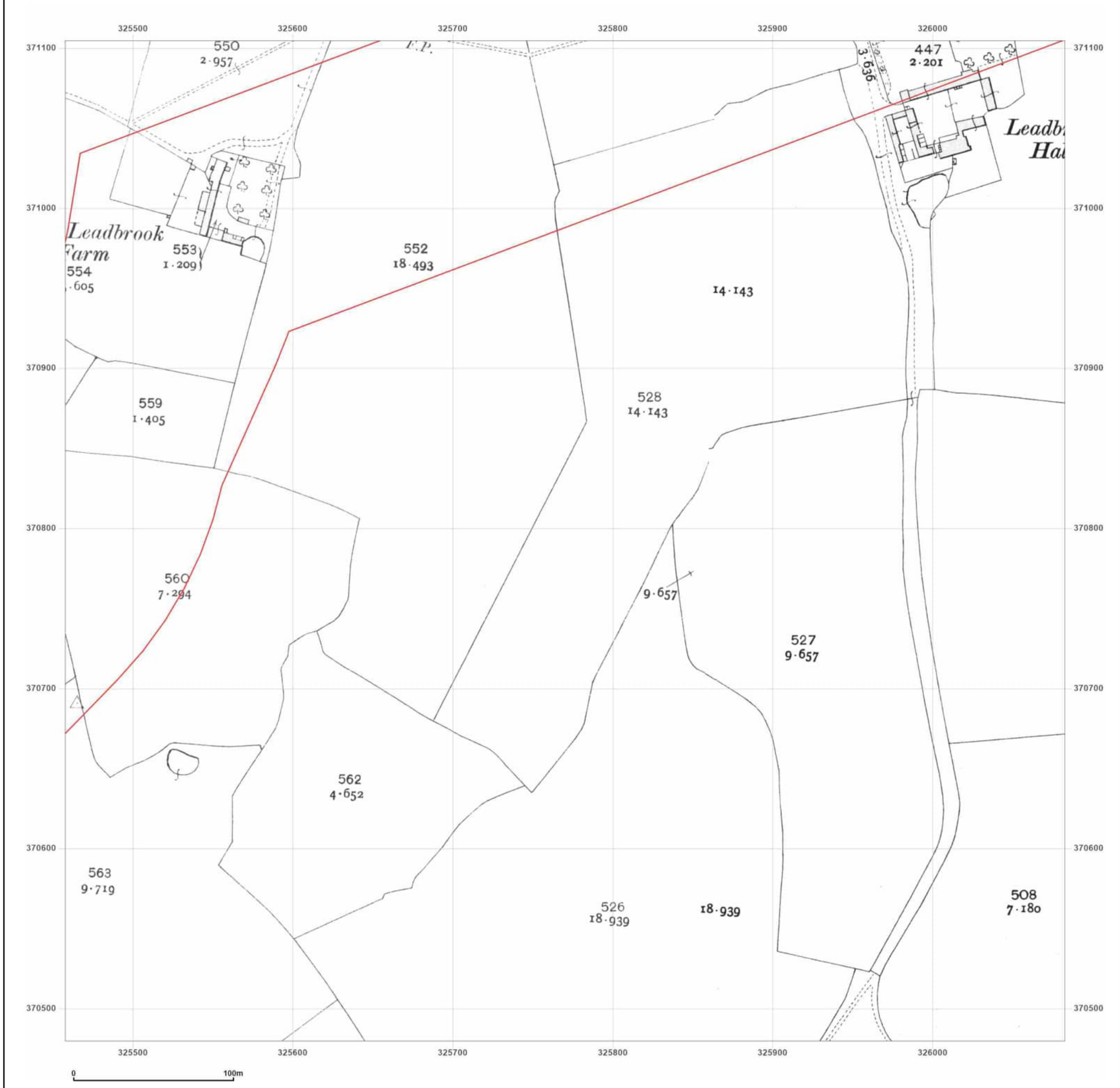
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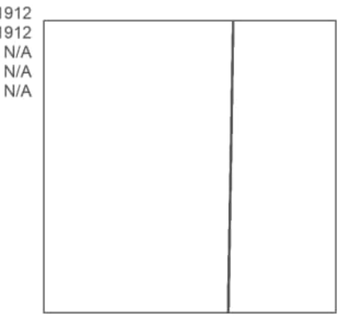
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

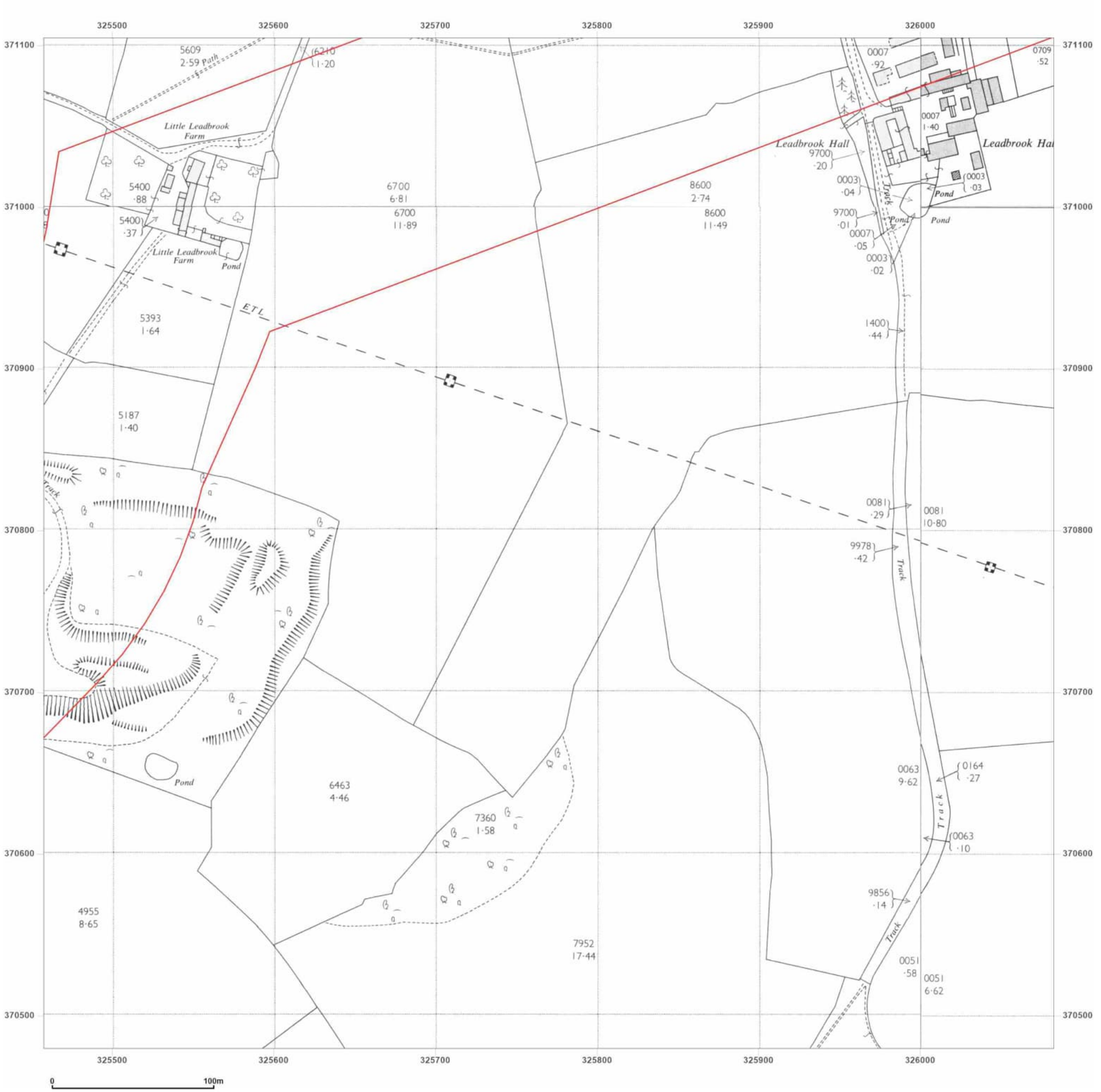
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: National Grid

Map date: **1962-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

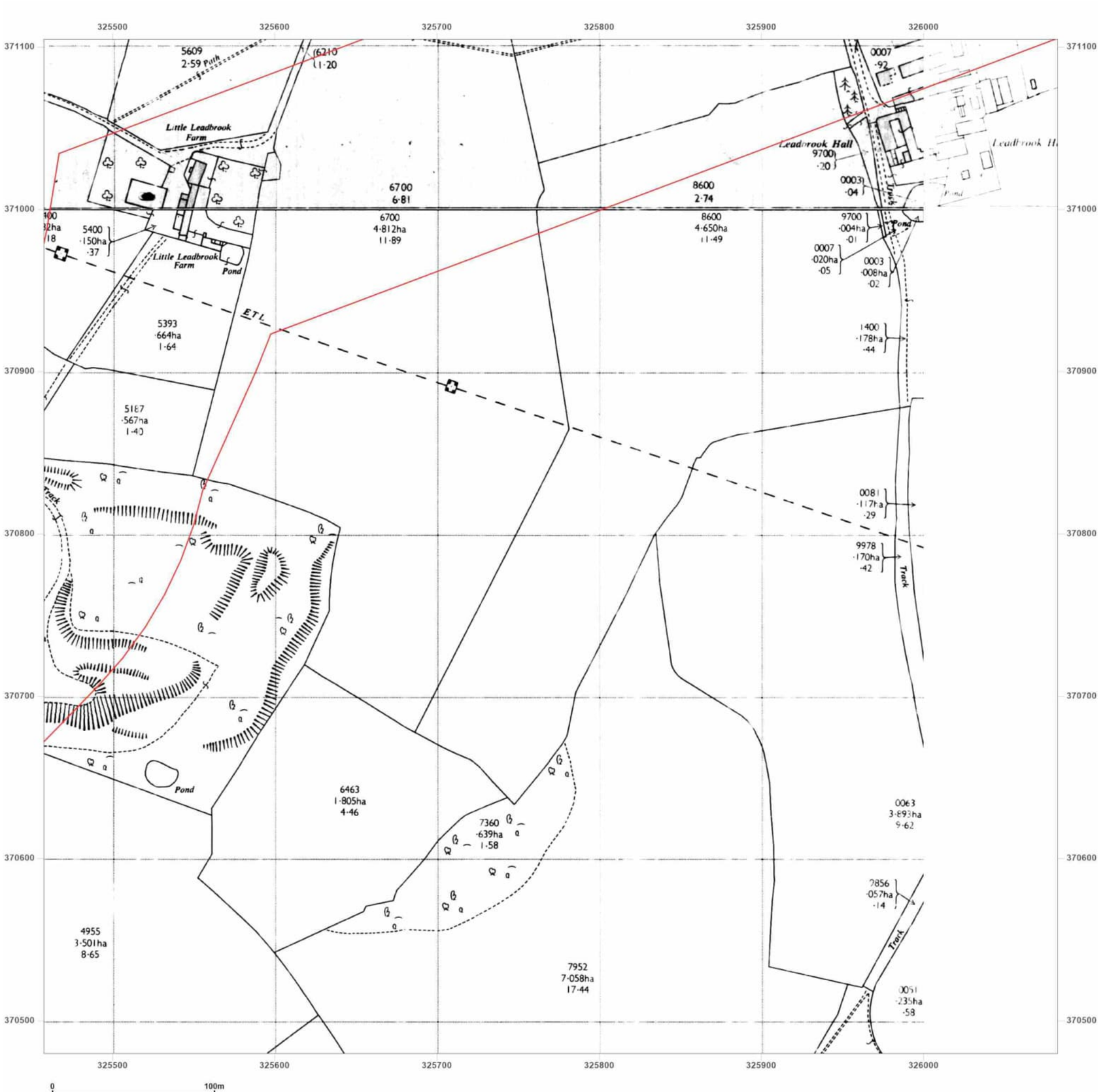
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: National Grid
Map date: **1973-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

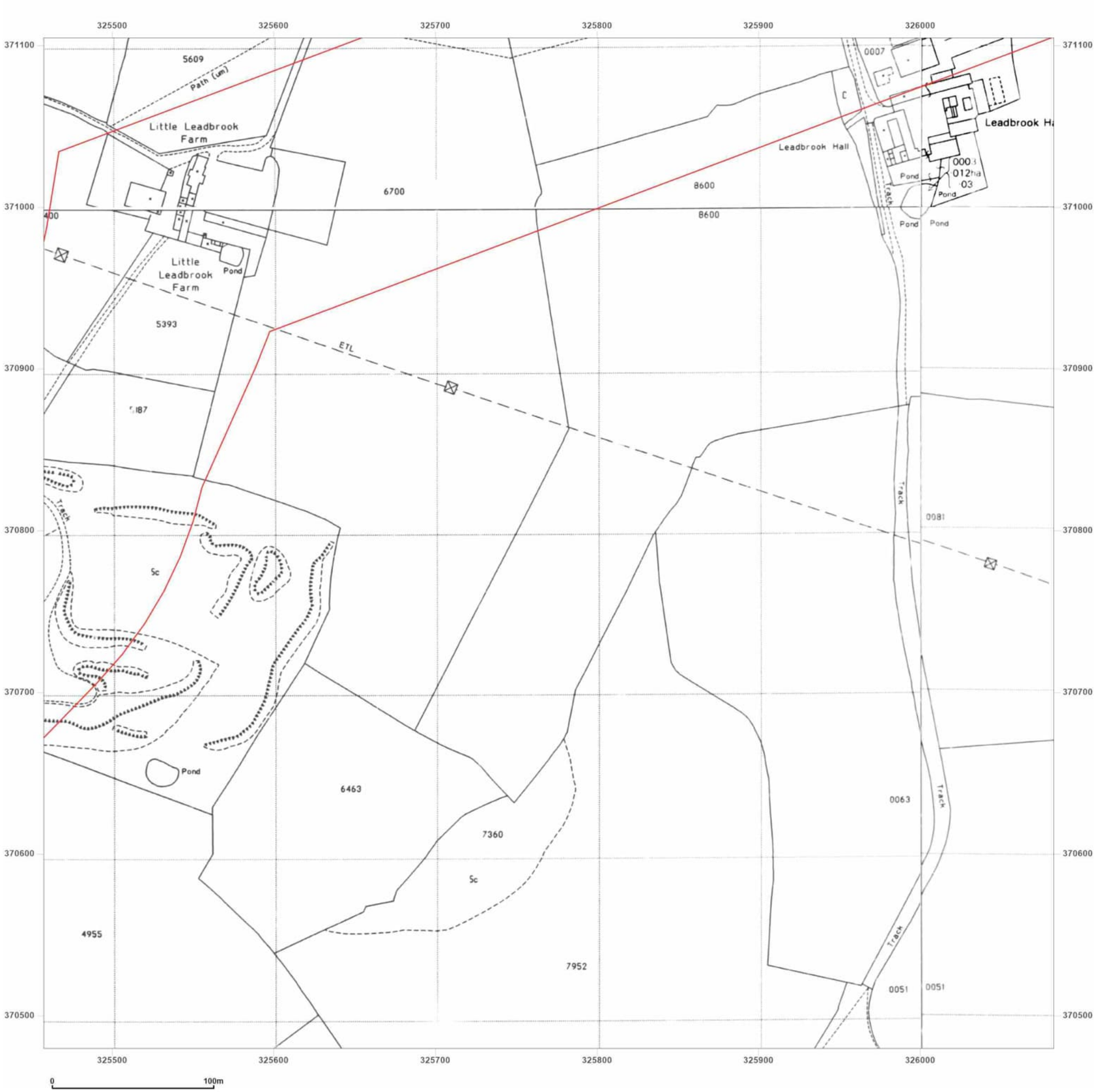
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_2
Grid Ref: 325770, 370792

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

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

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

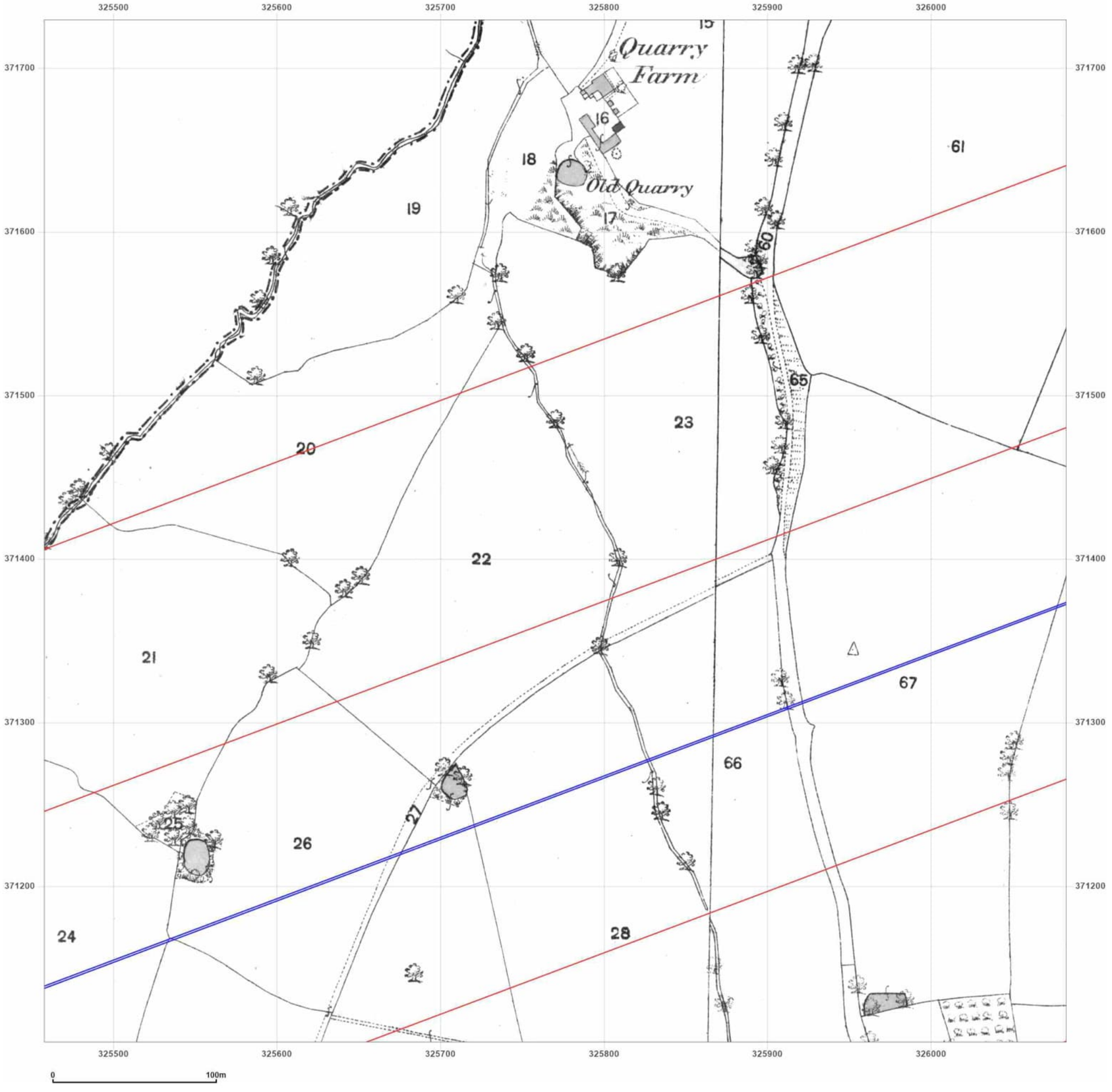
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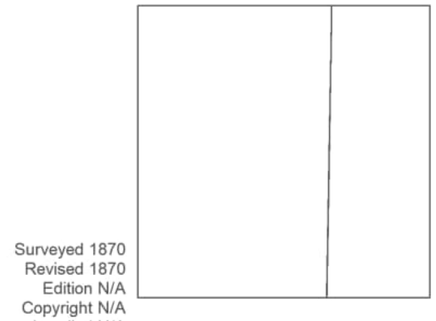
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

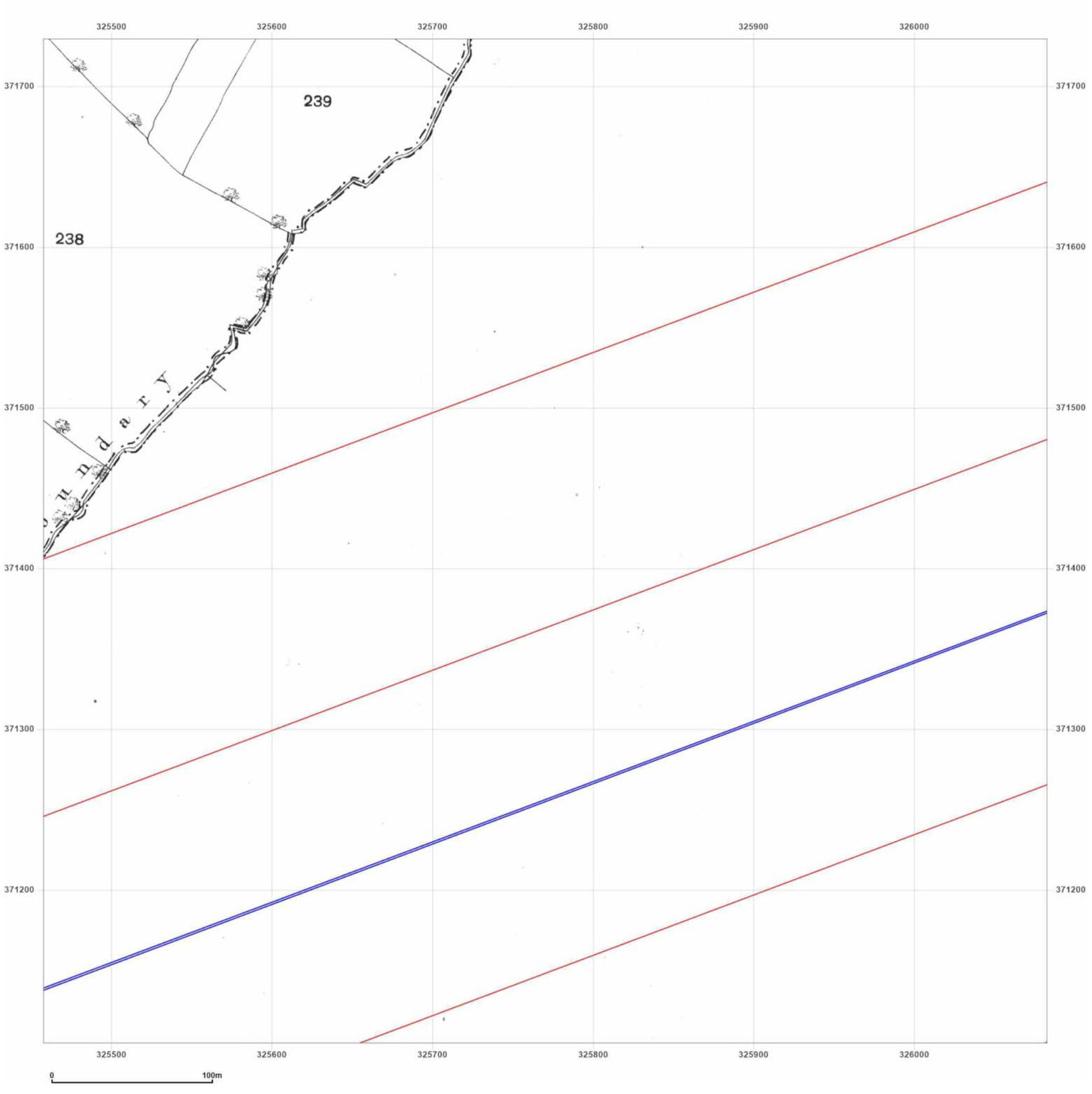
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Production date: 07 March 2024

Map legend available at:
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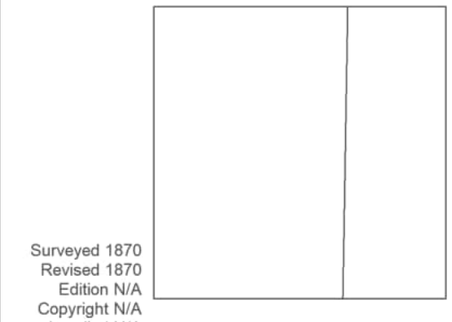
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

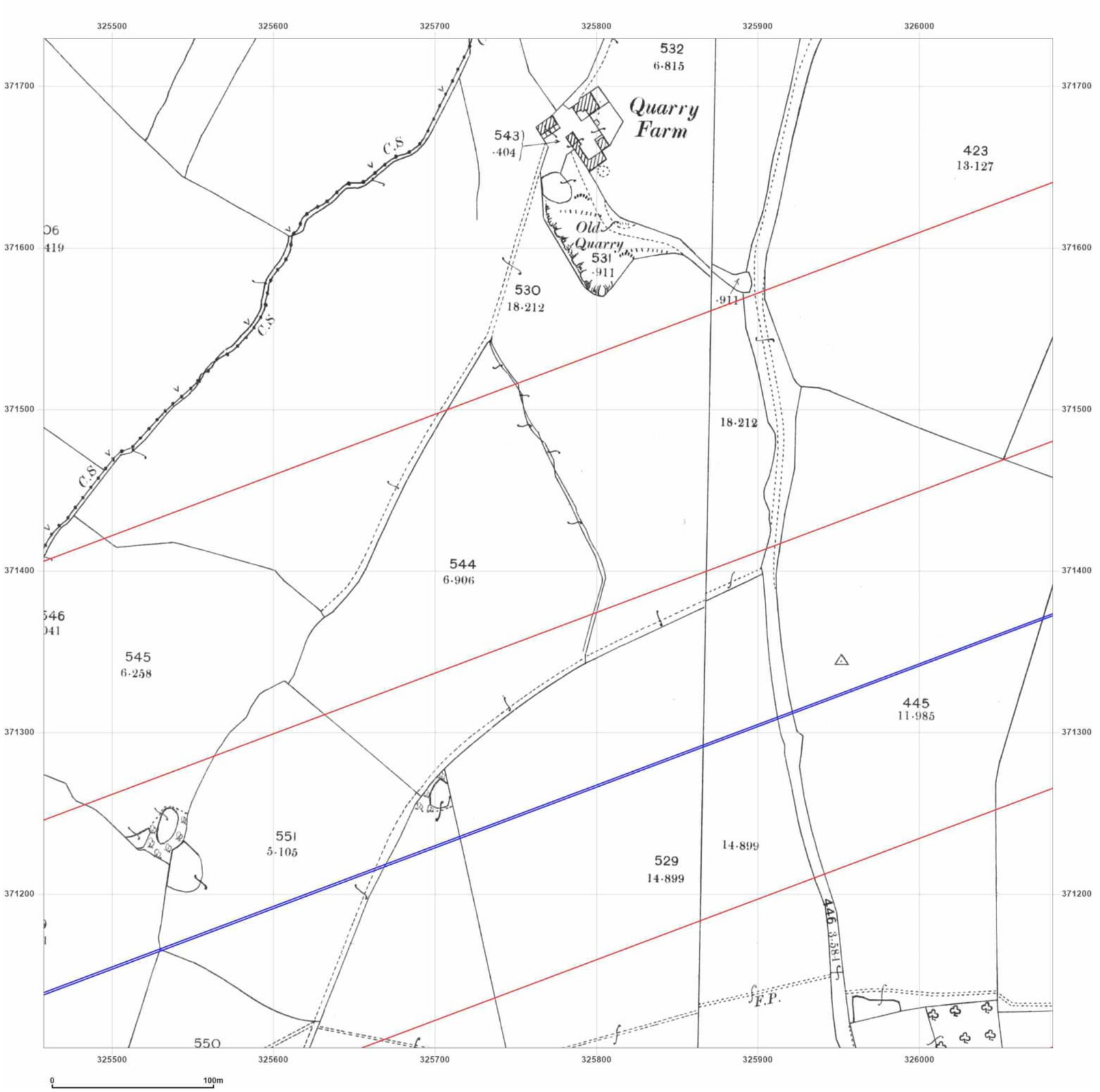
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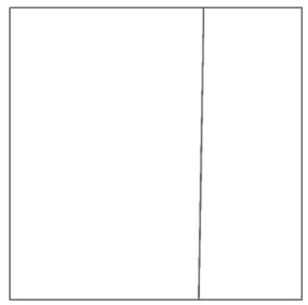
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

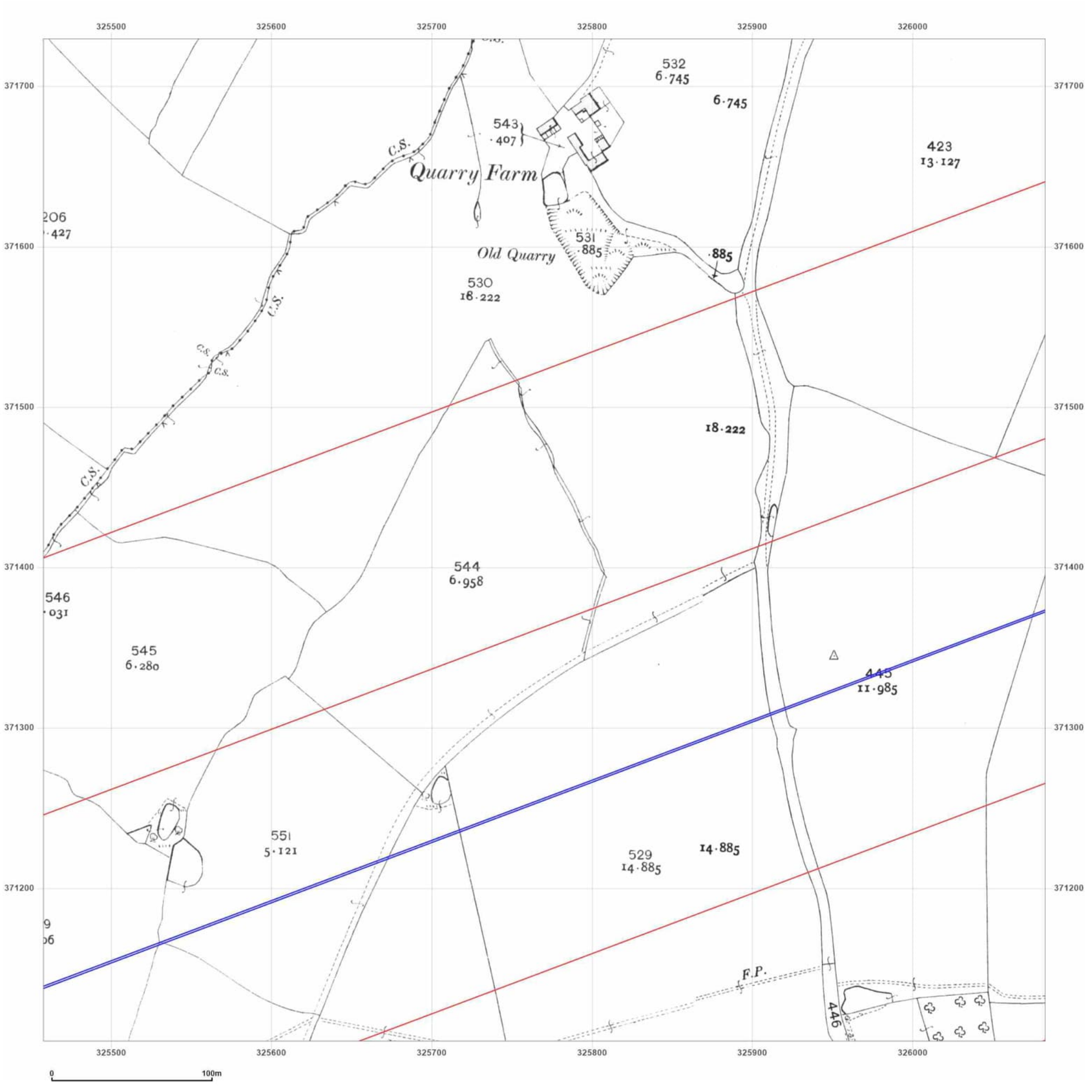
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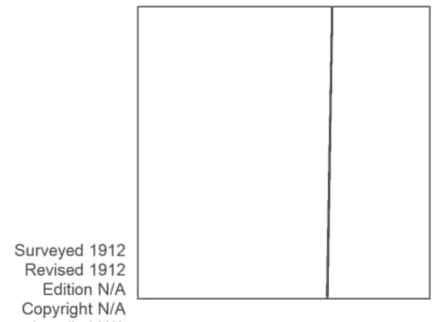
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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

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

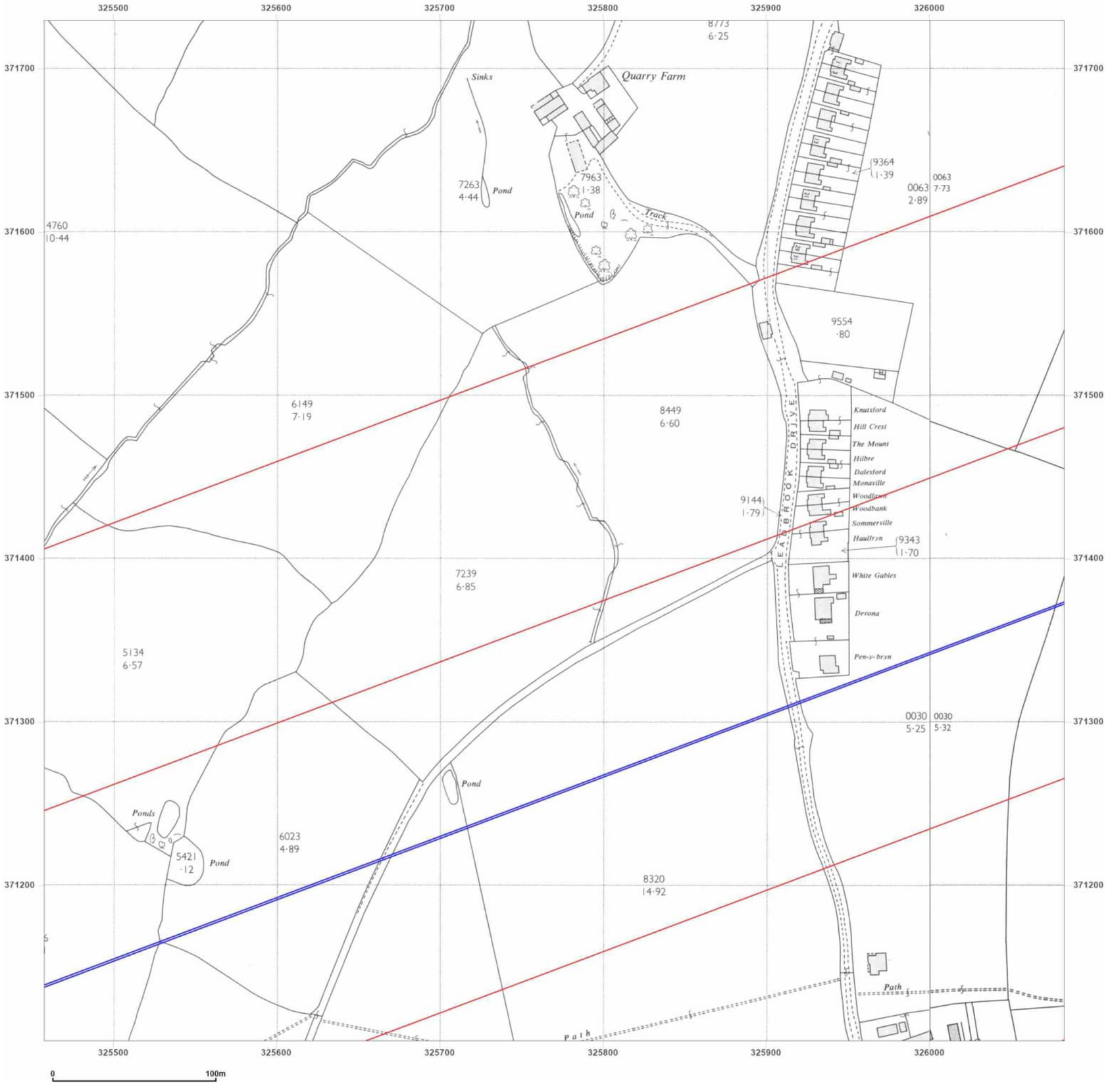
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: National Grid
Map date: **1962-1963**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1963	Surveyed 1962
Revised 1963	Revised 1962
Edition N/A	Edition N/A
Copyright 1964	Copyright 1964
Levelled 1959	Levelled 1959

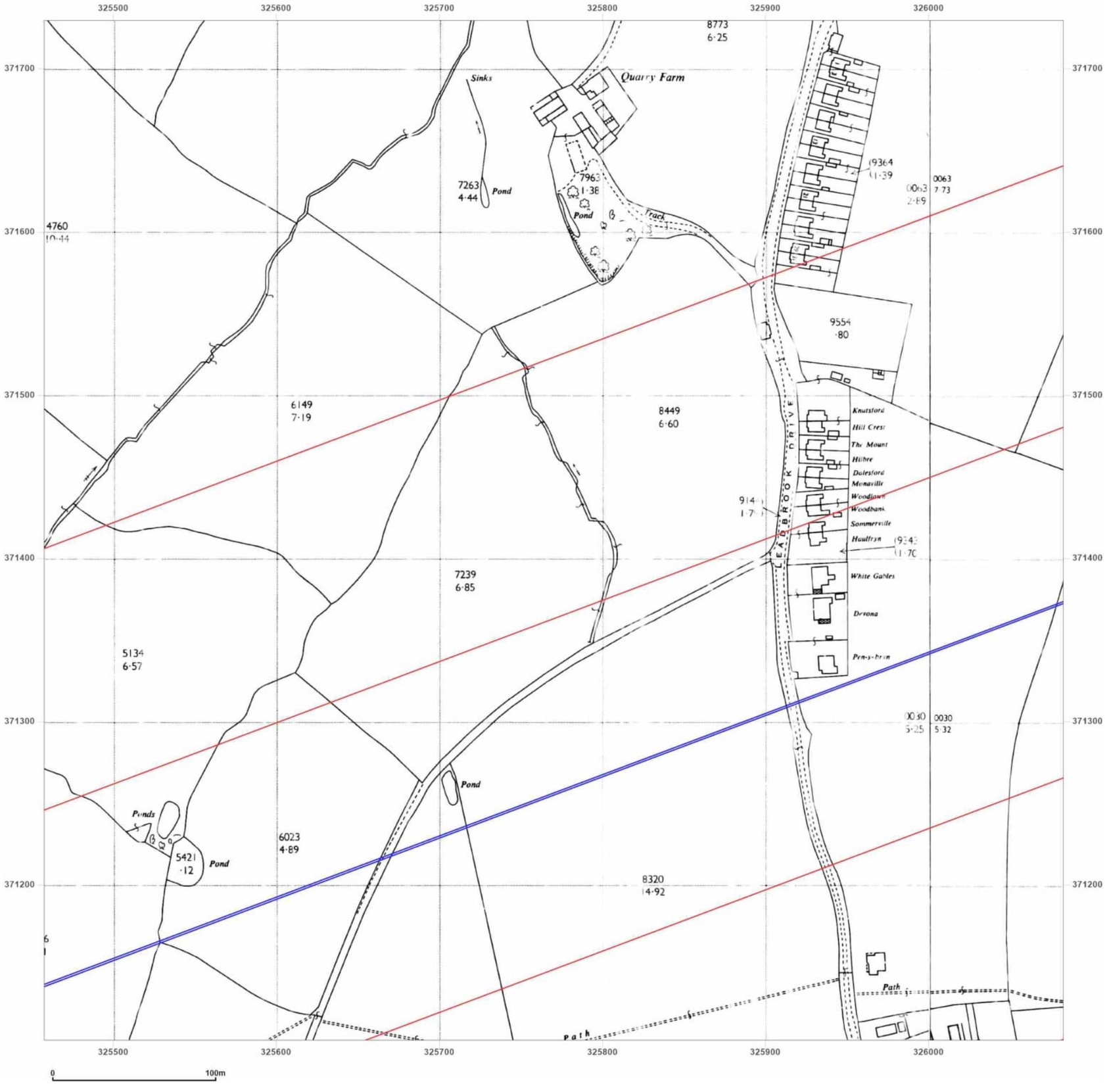
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

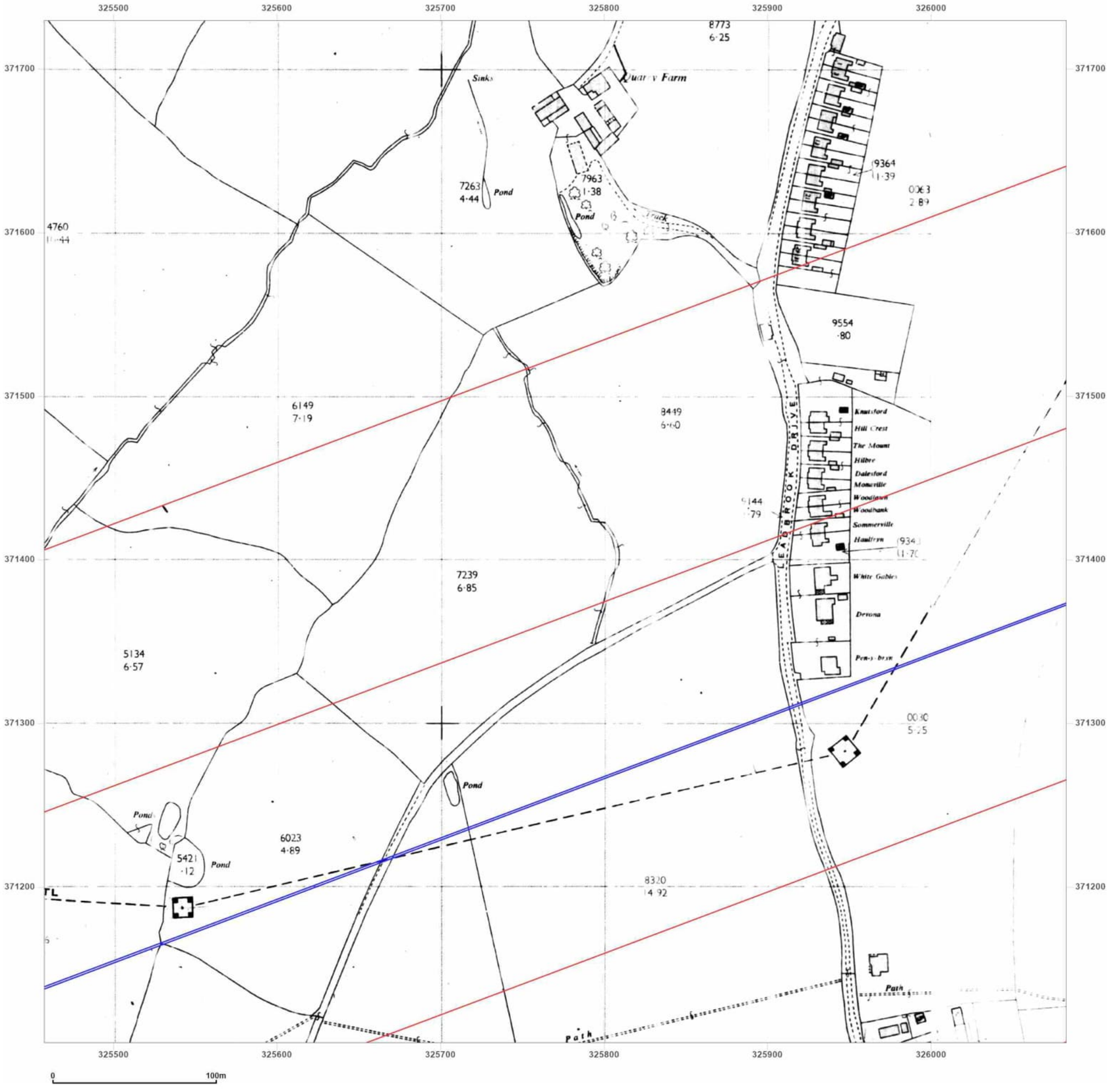
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: National Grid
Map date: **1973-1977**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

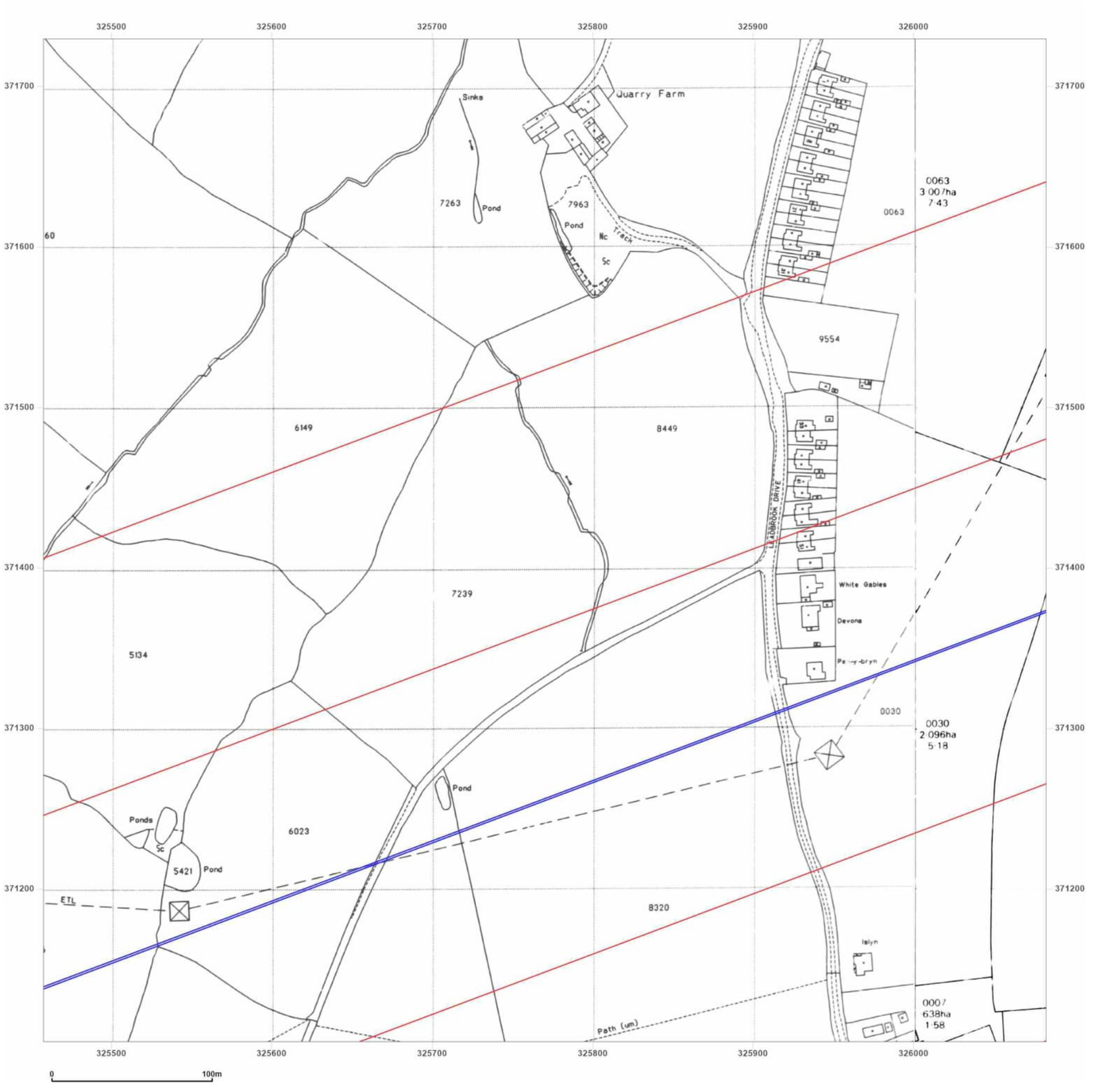
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_2_3
Grid Ref: 325770, 371417

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

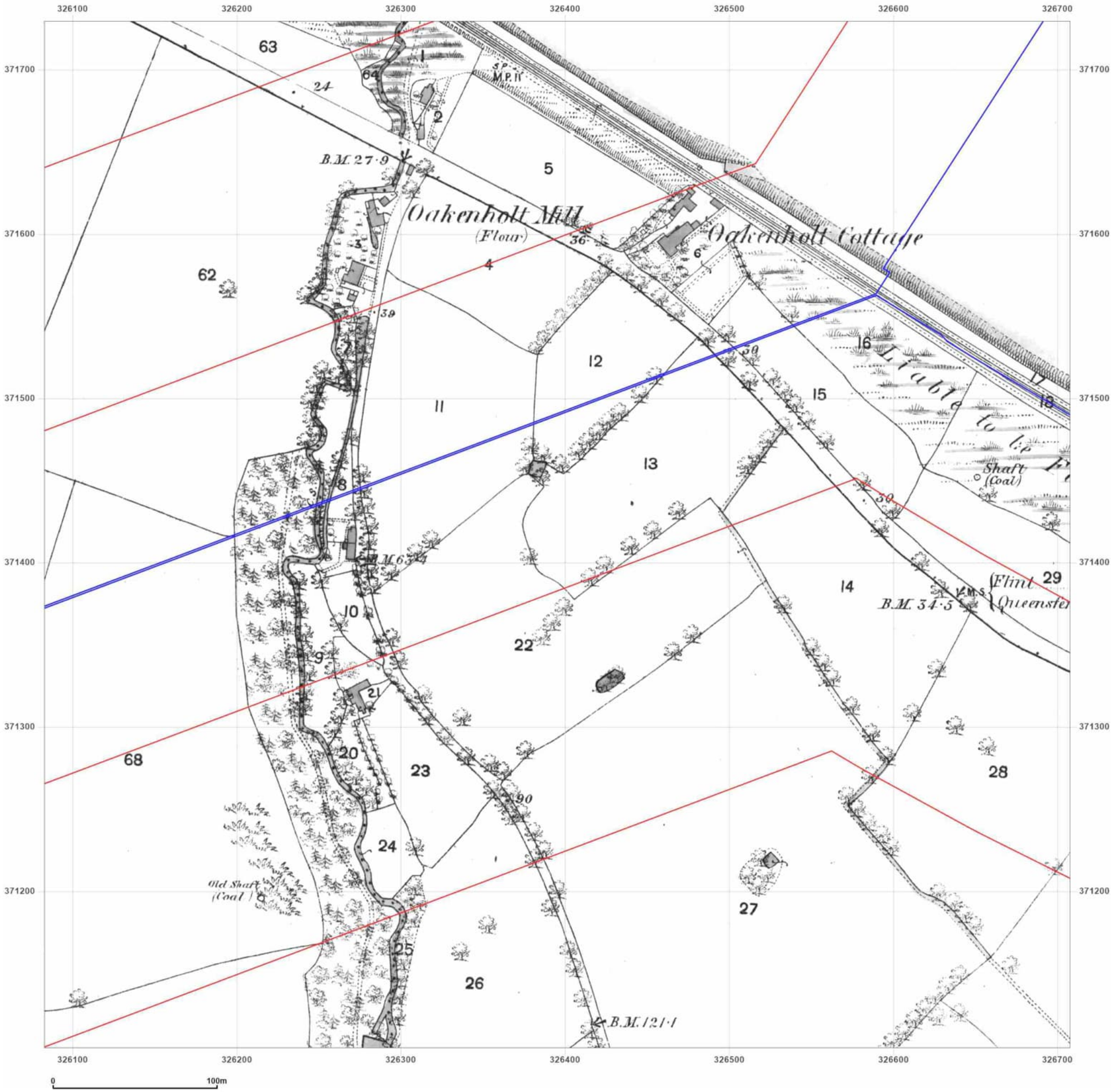
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Production date: 07 March 2024

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: County Series
Map date: **1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

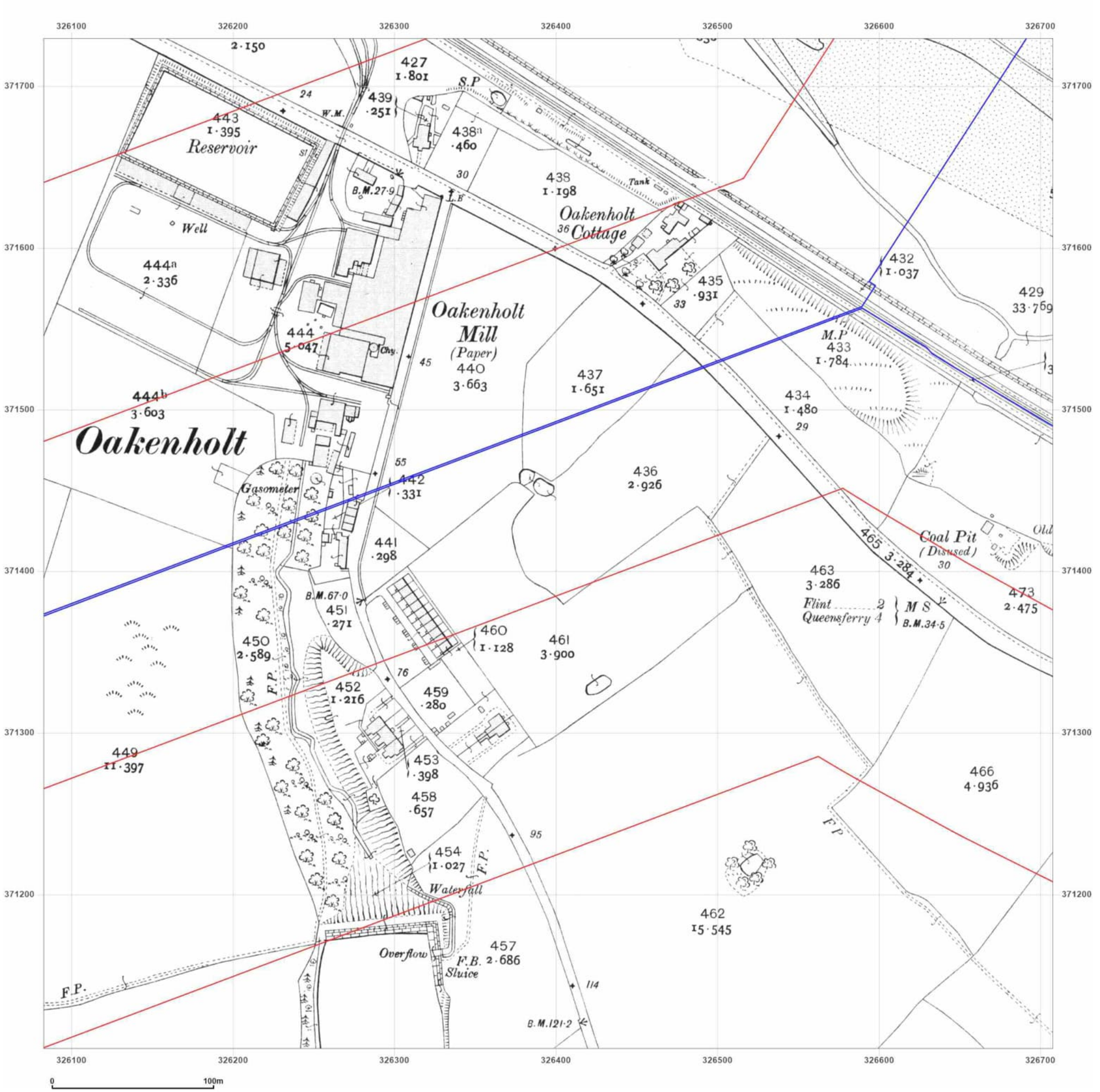
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

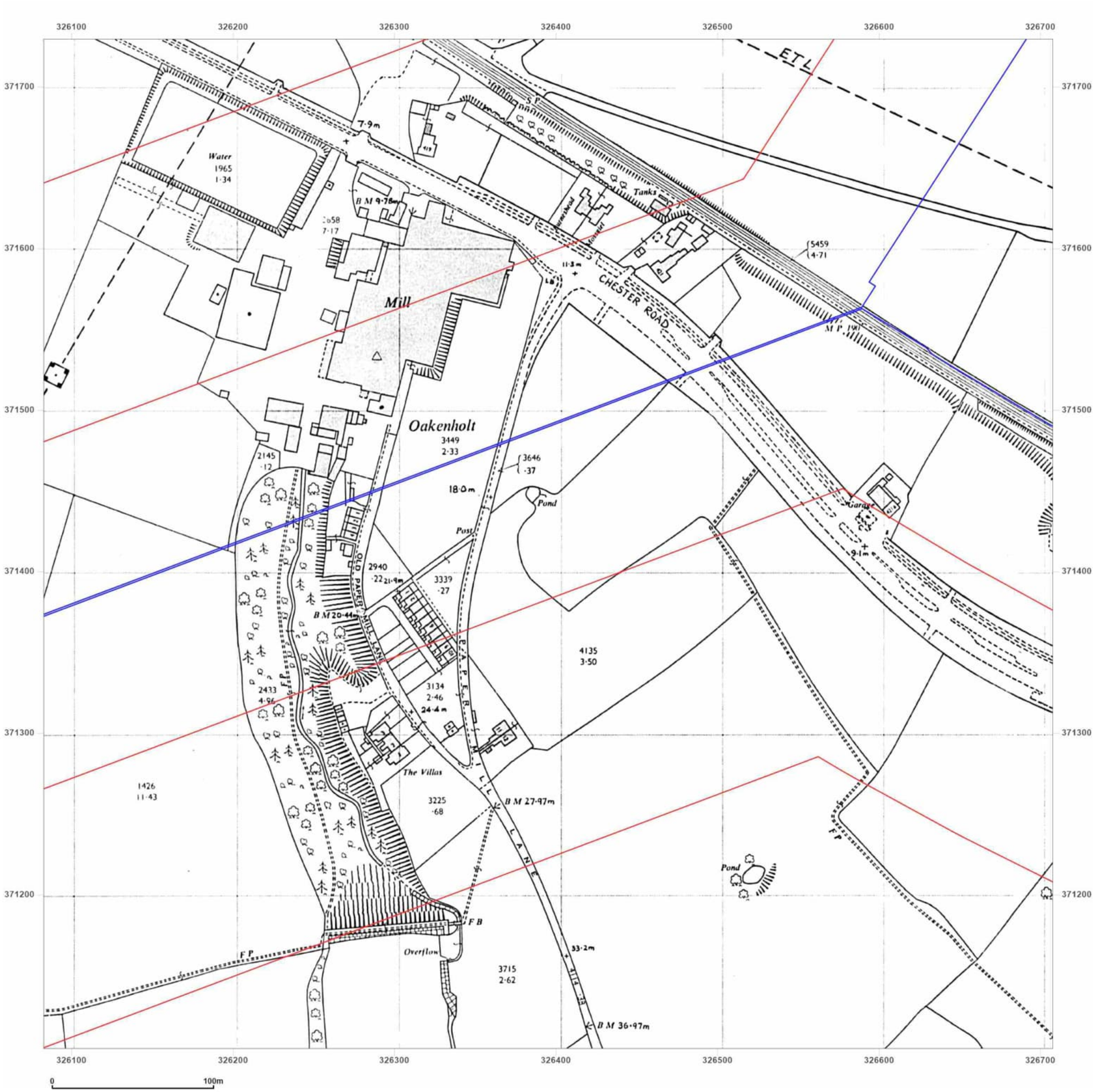
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1959**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1959

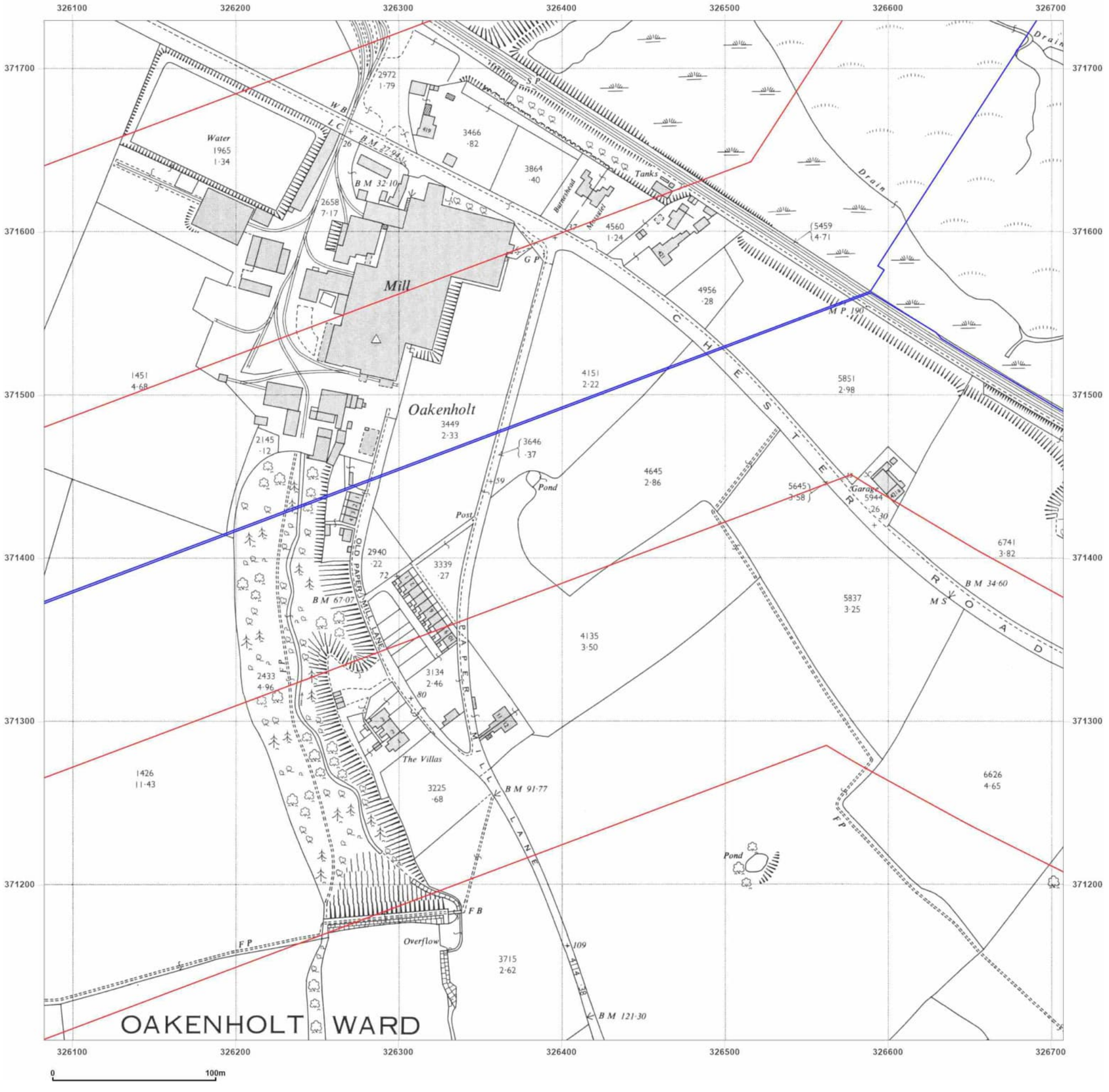
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1962**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

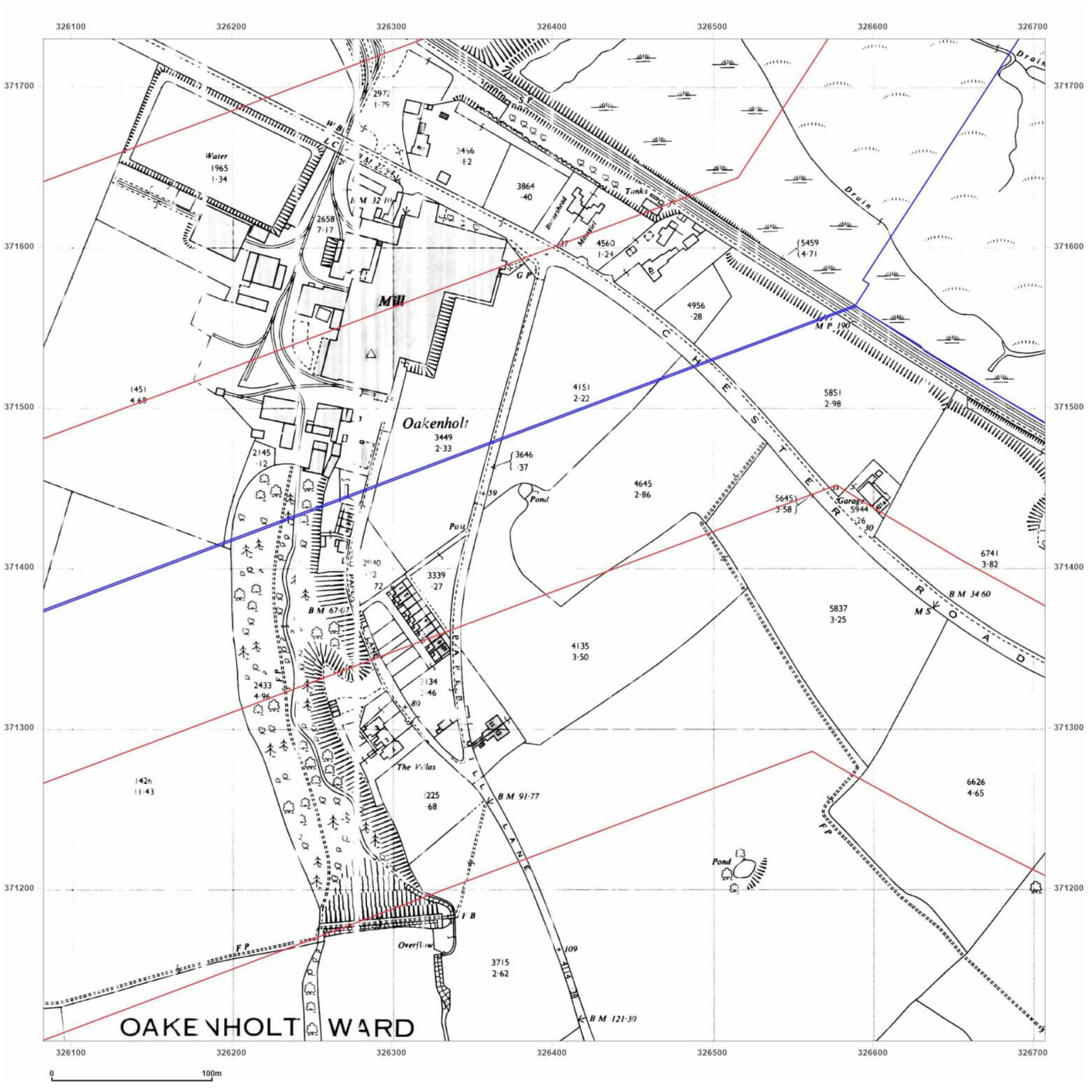
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

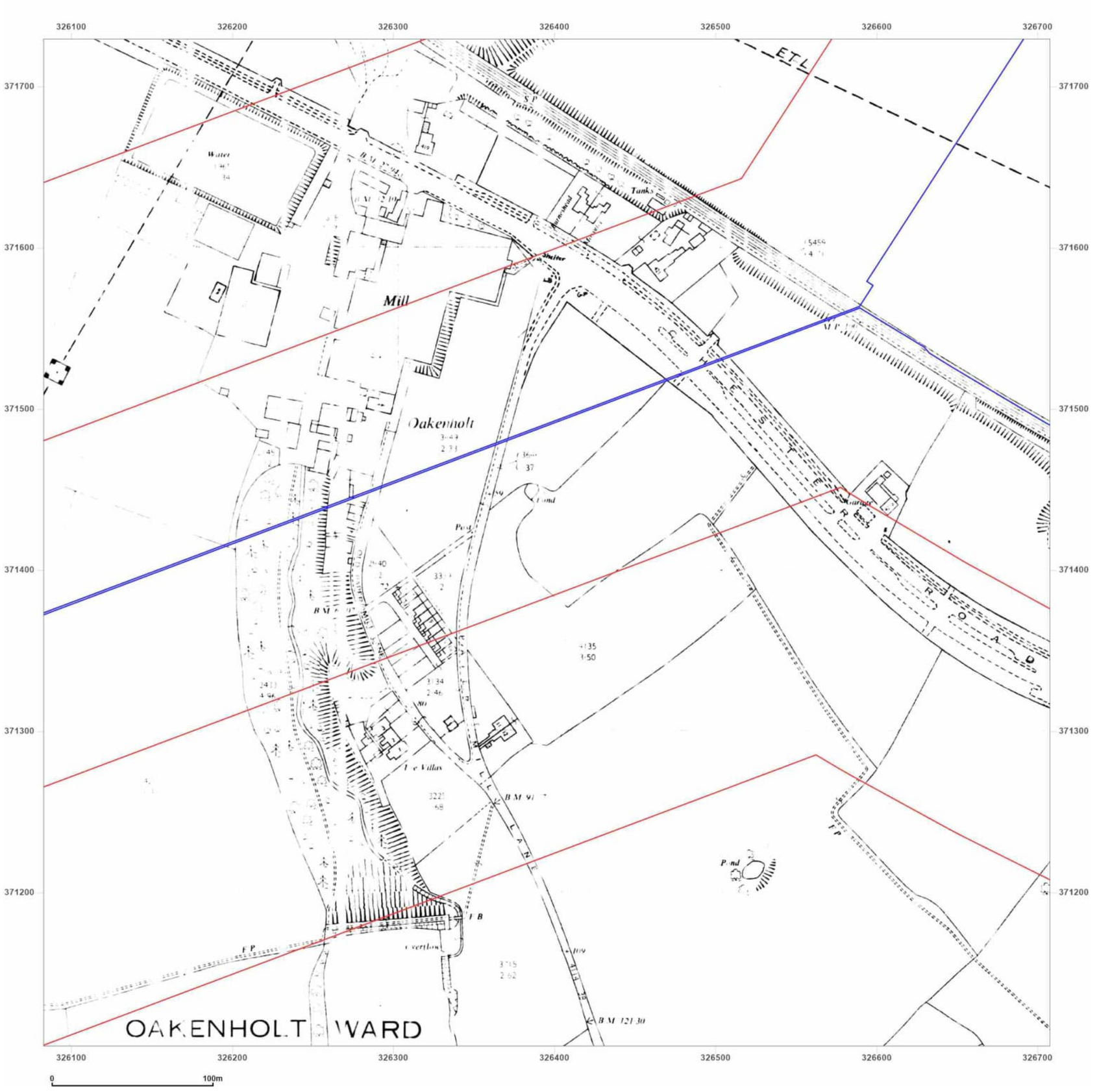
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1973**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

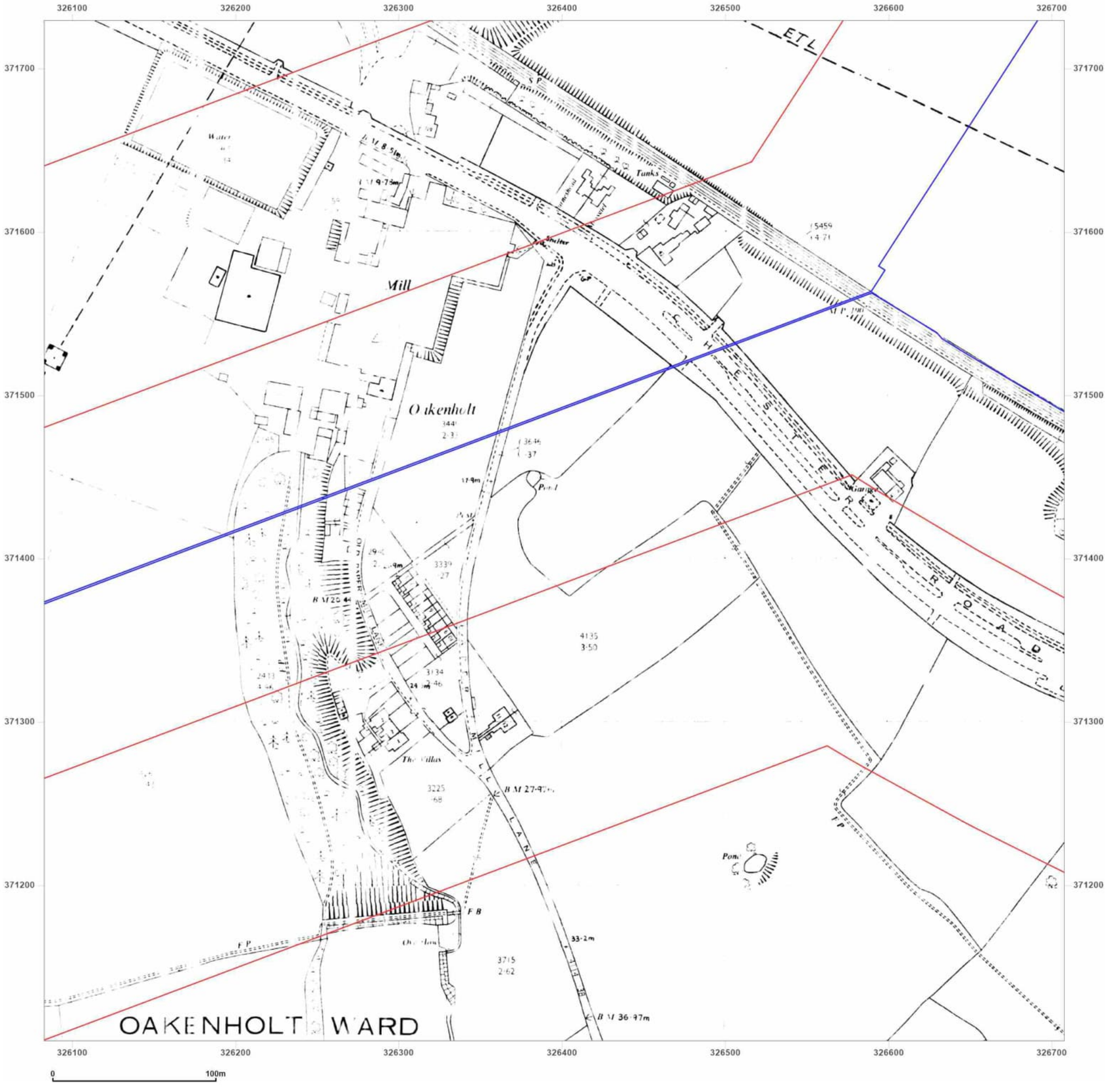
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1977**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1986**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

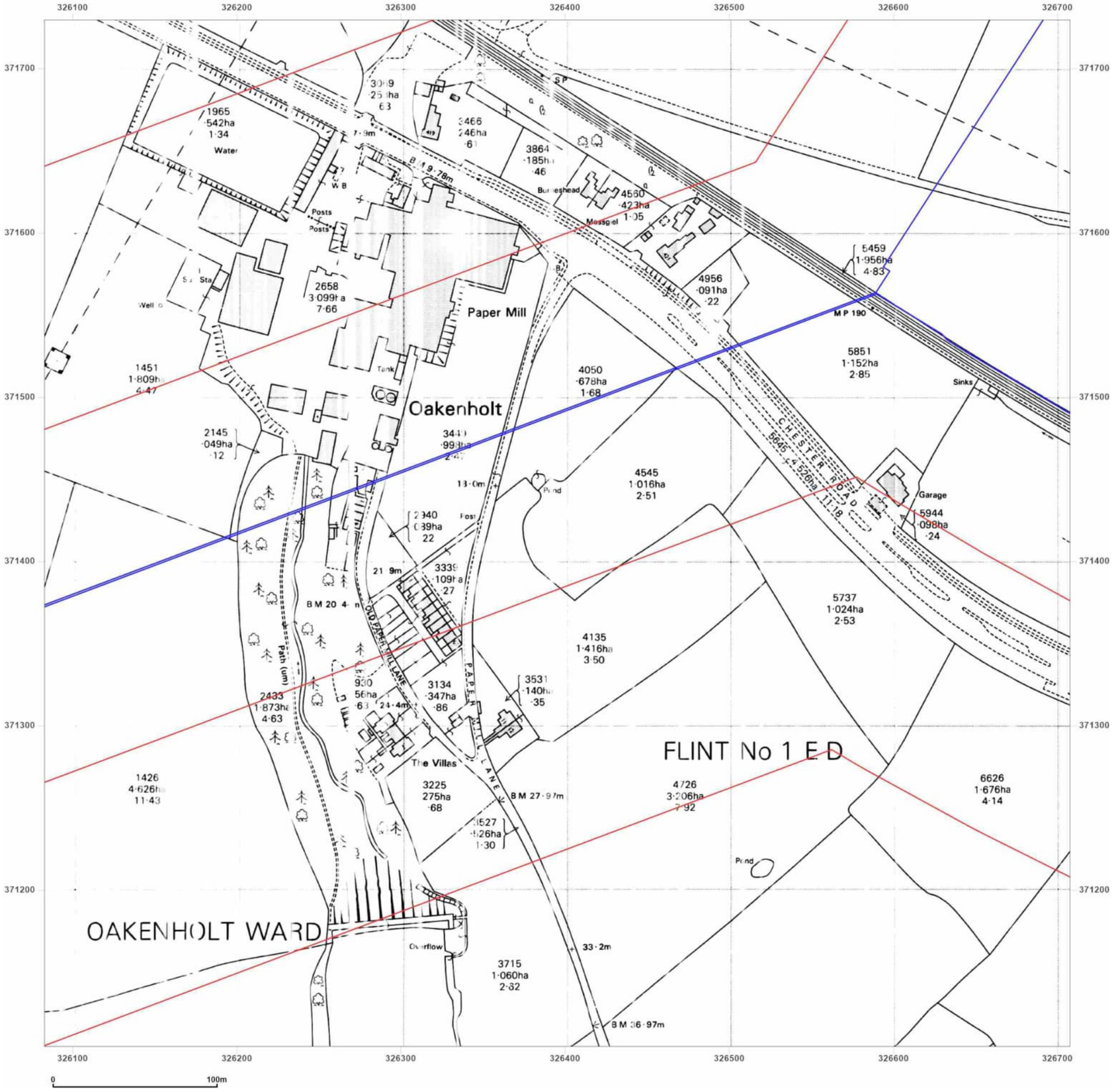
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: **1988**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

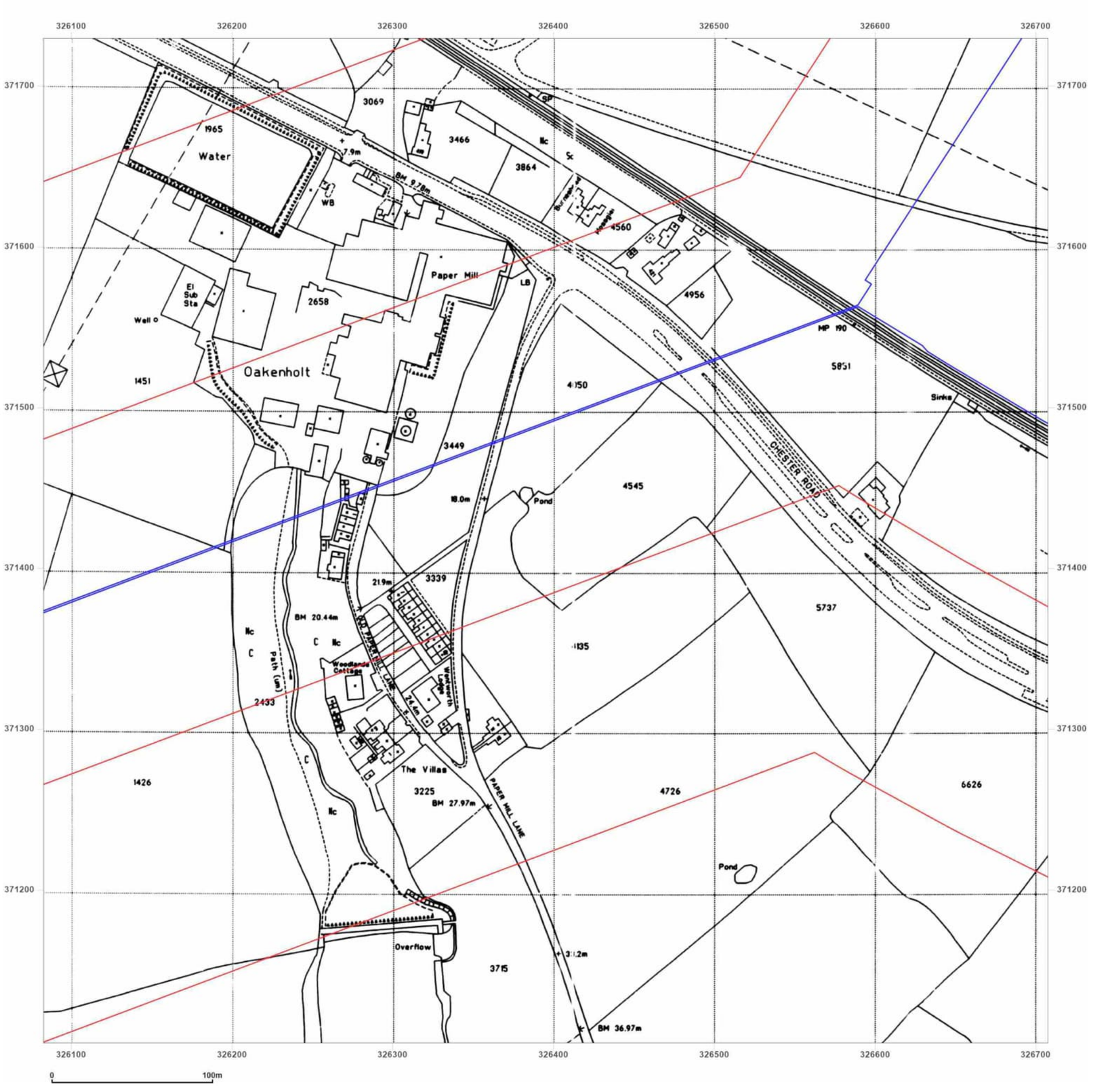
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

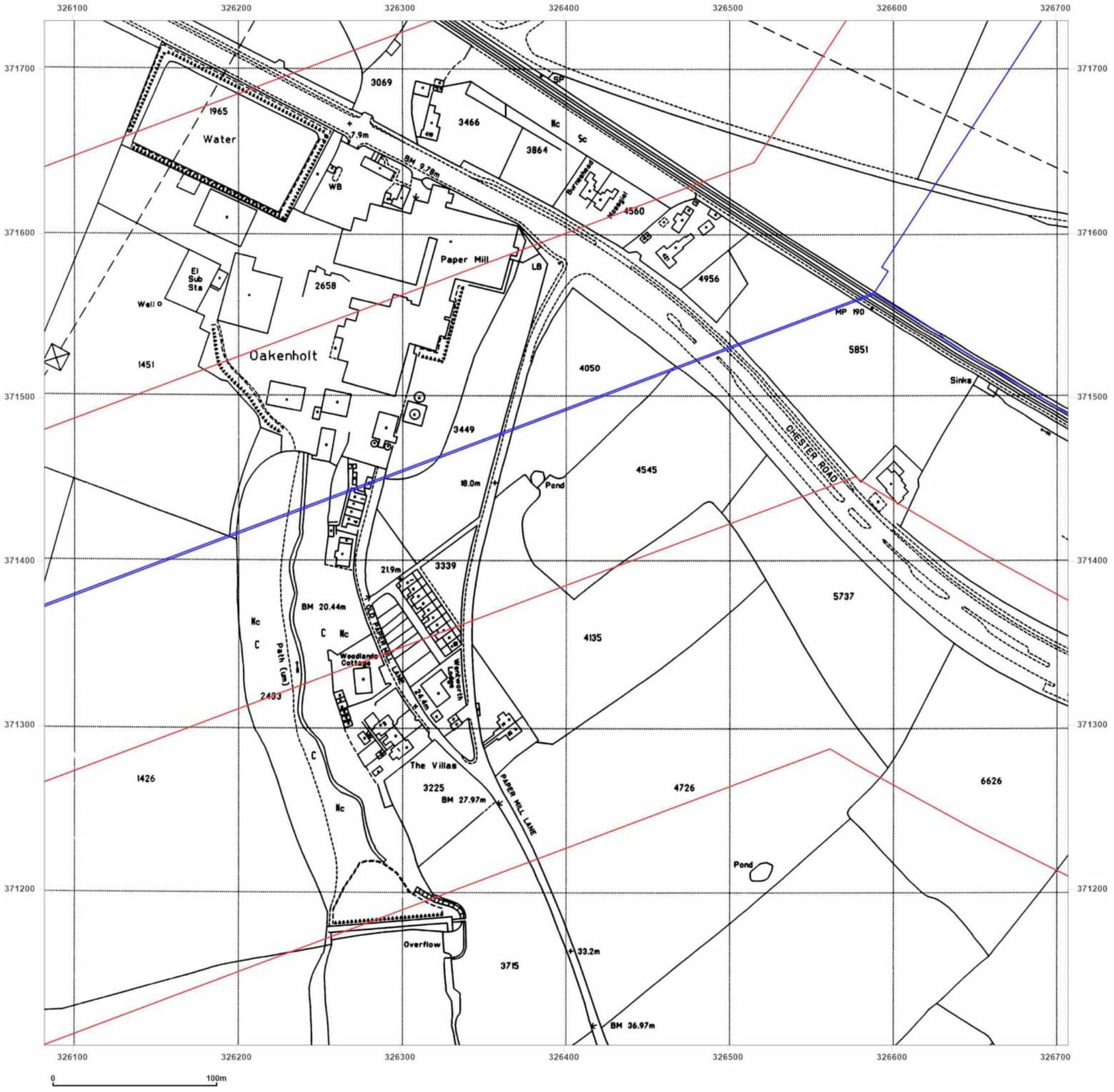
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_3
Grid Ref: 326395, 371417

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

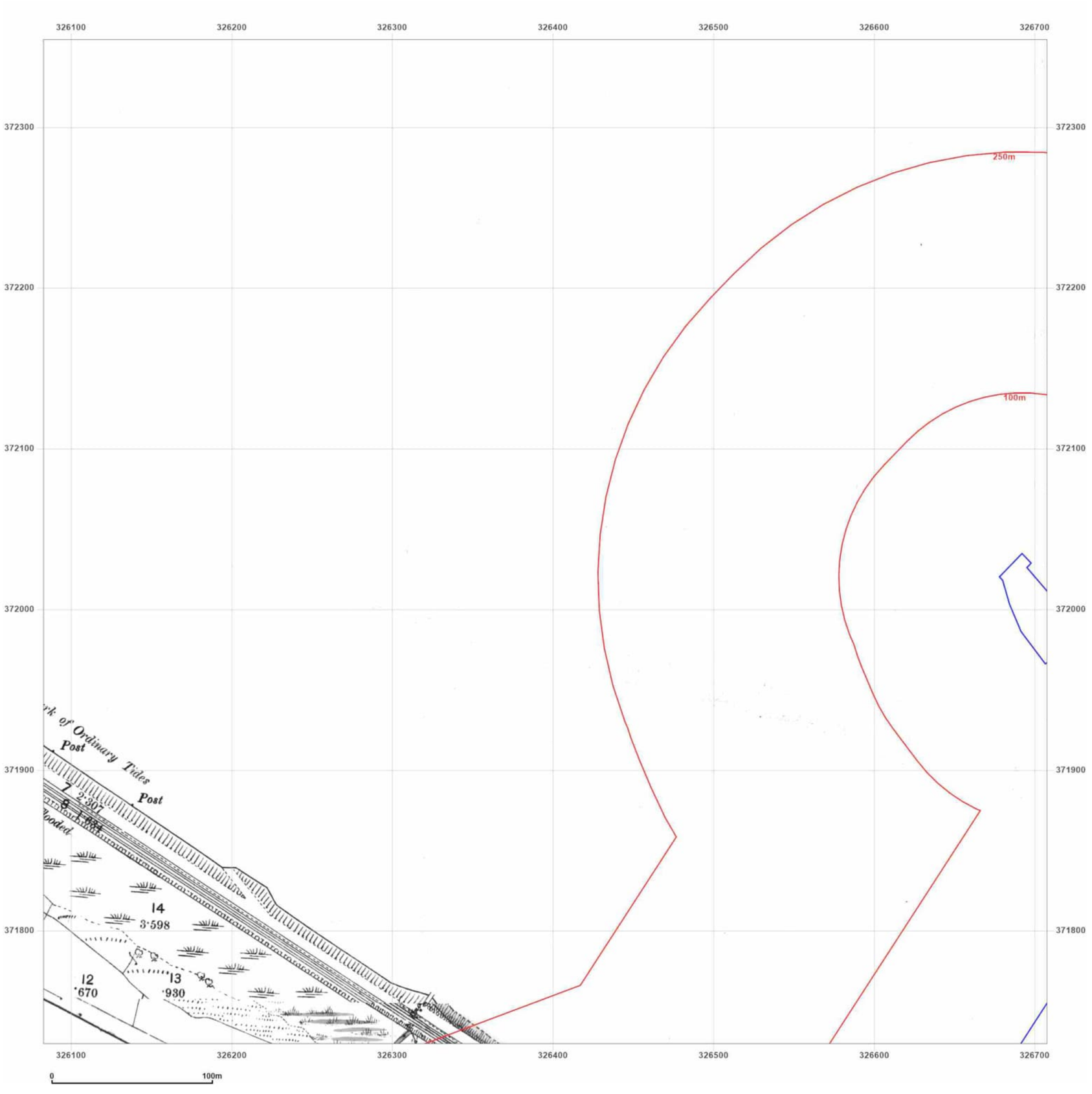
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

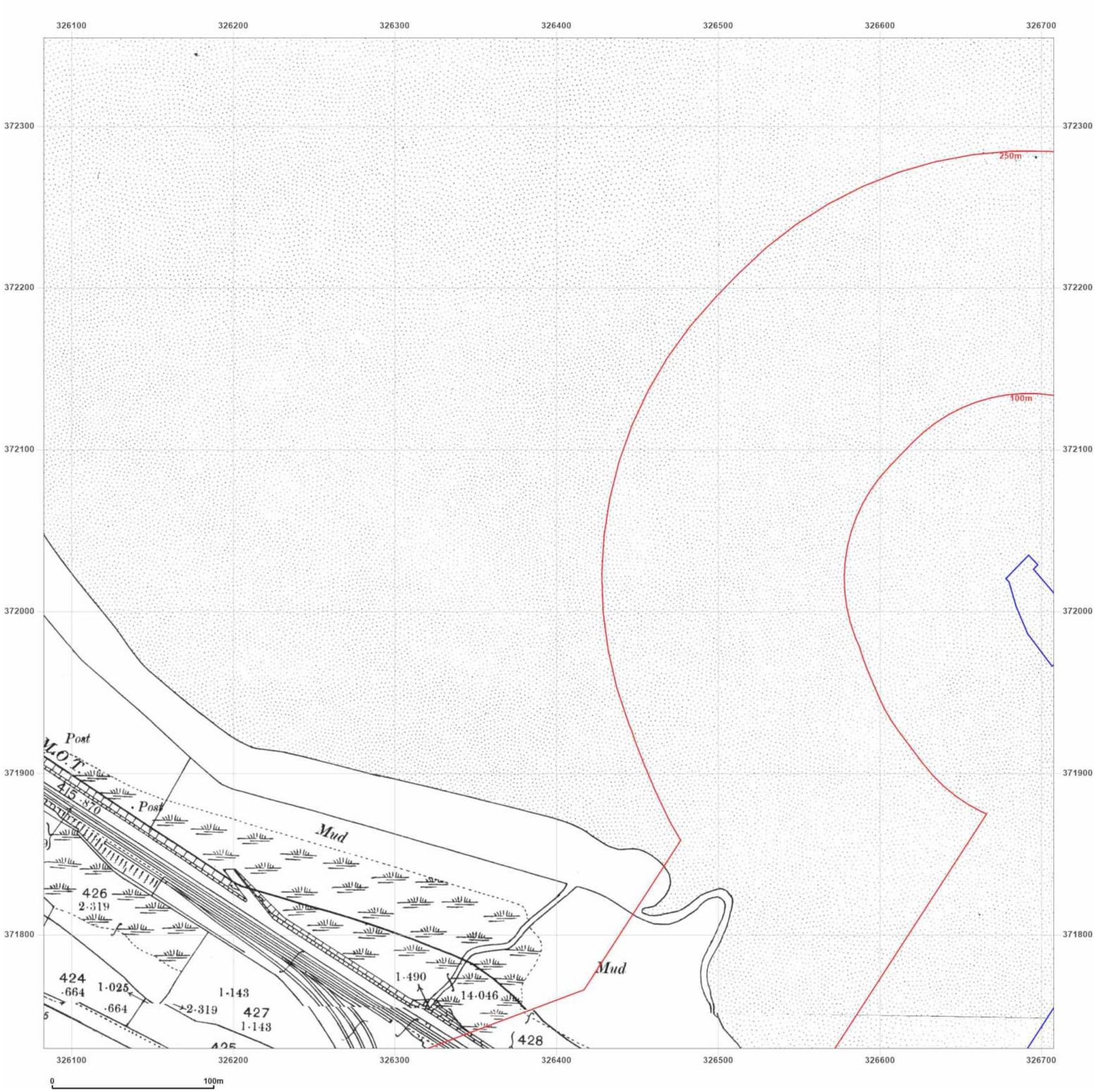
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: County Series

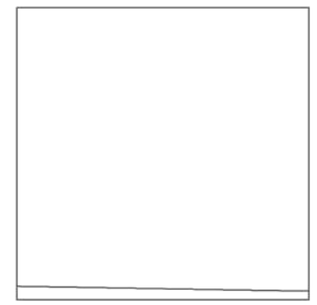
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

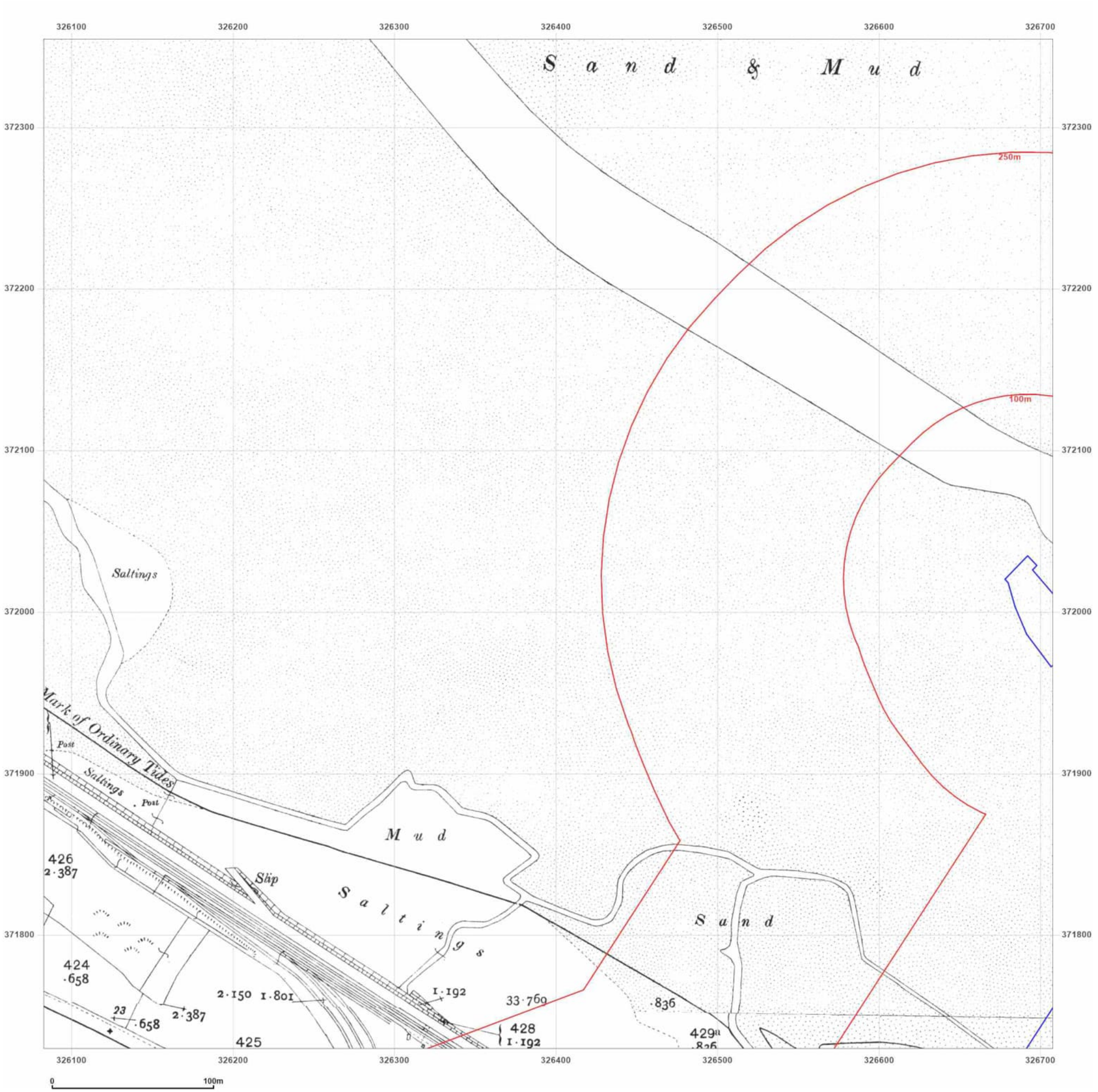
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Production date: 07 March 2024

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Site Details:

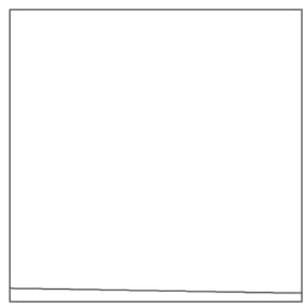
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

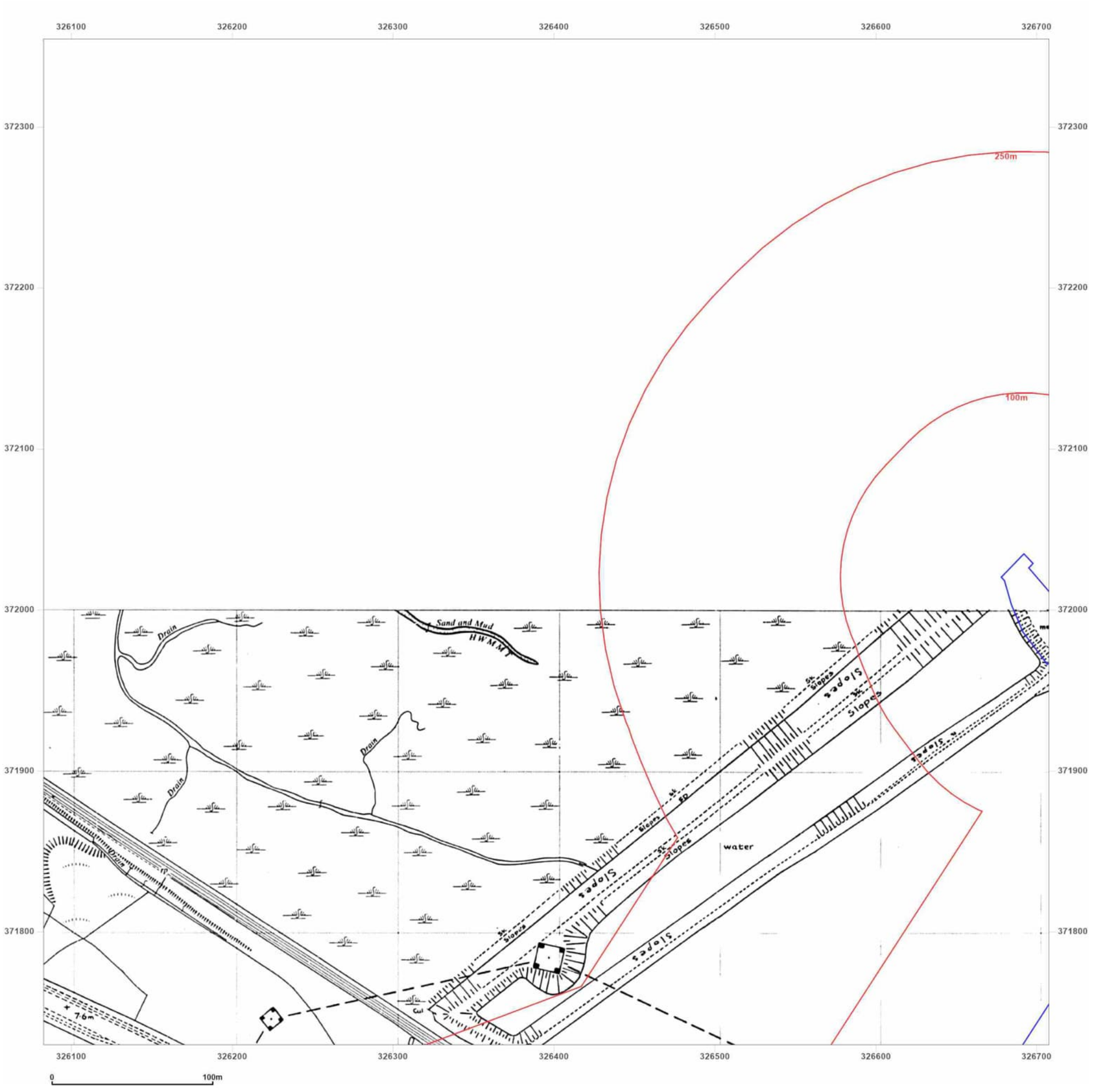
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1959

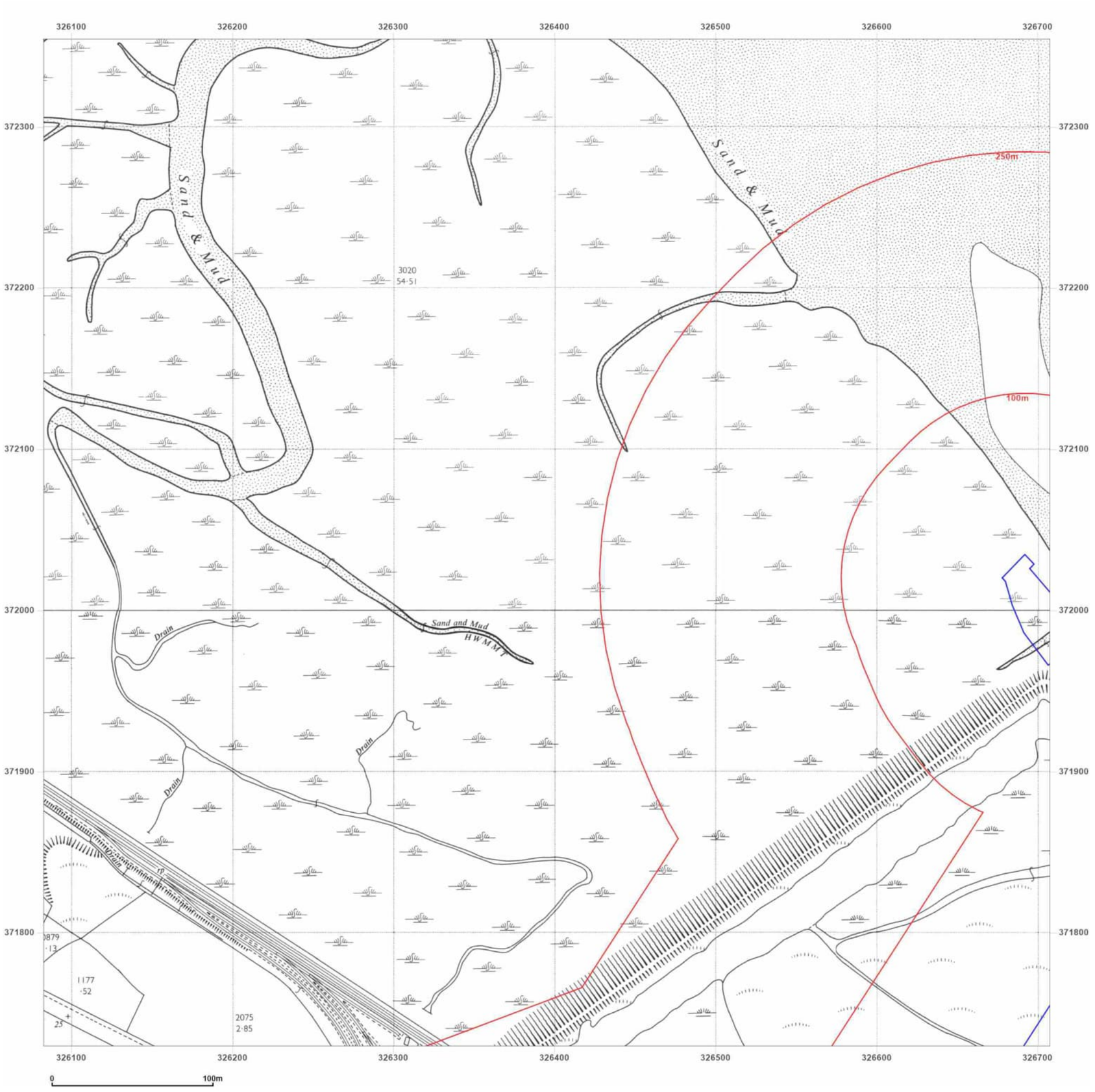
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

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Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

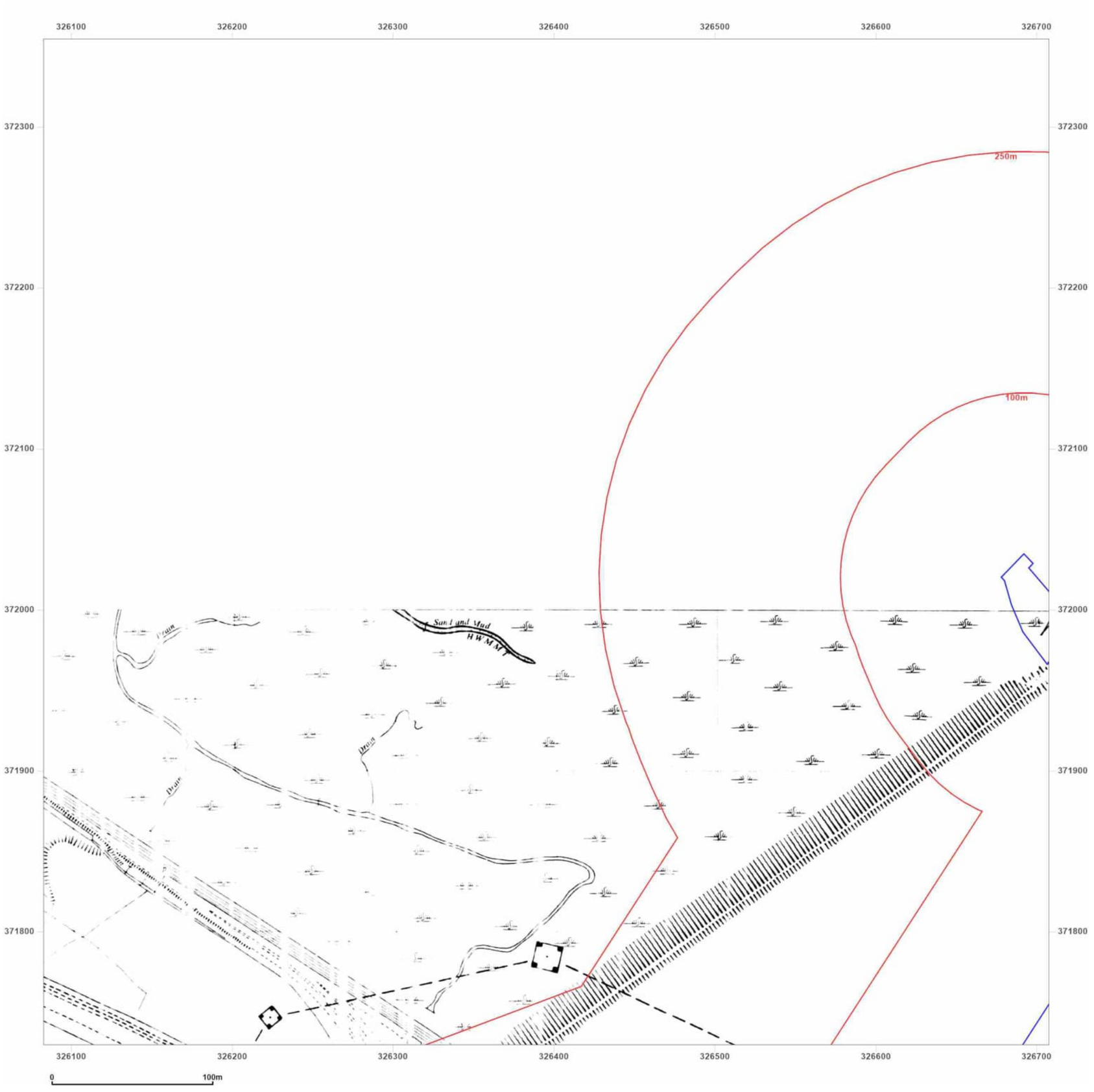
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid

Map date: 1973

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

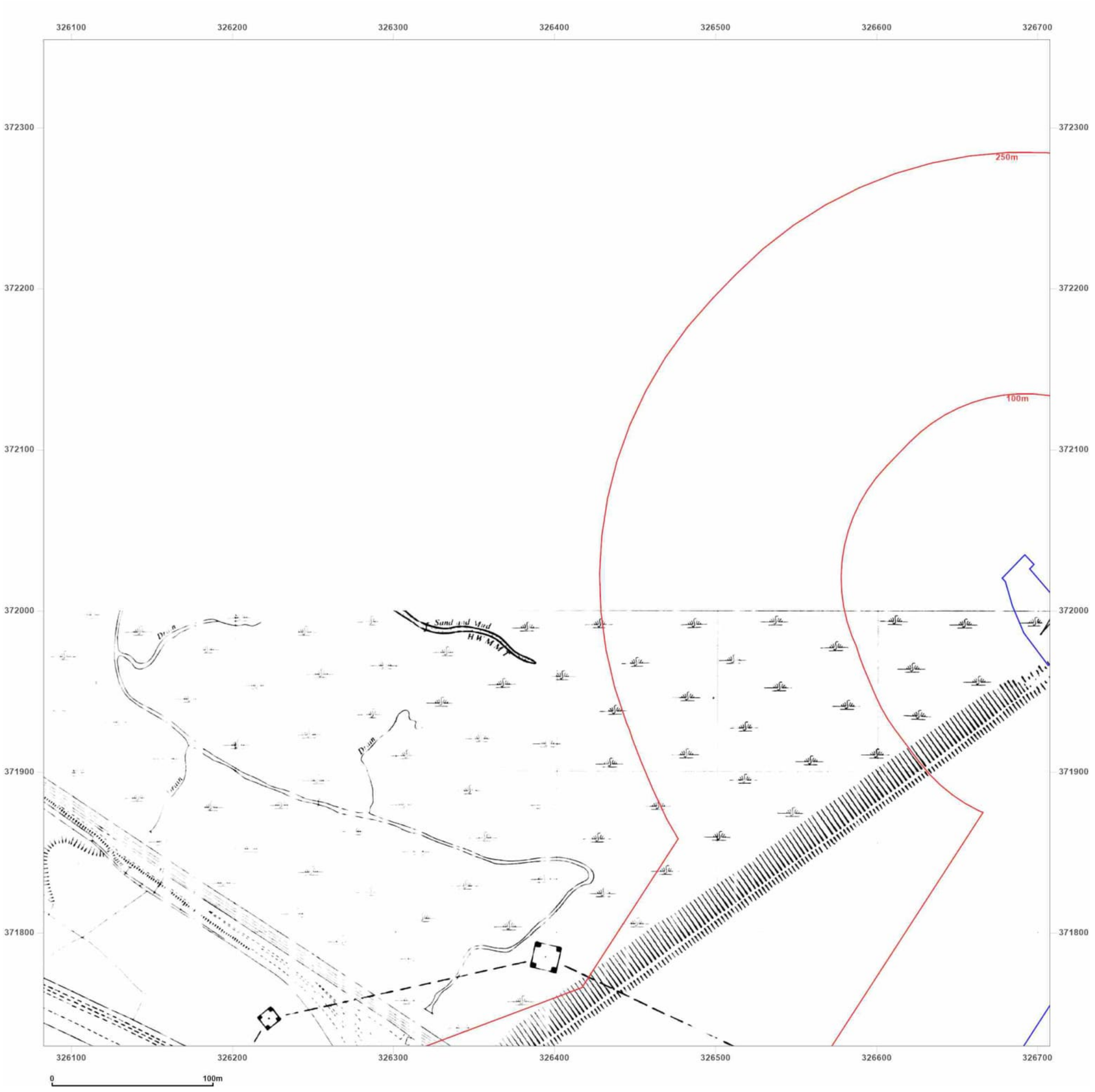
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

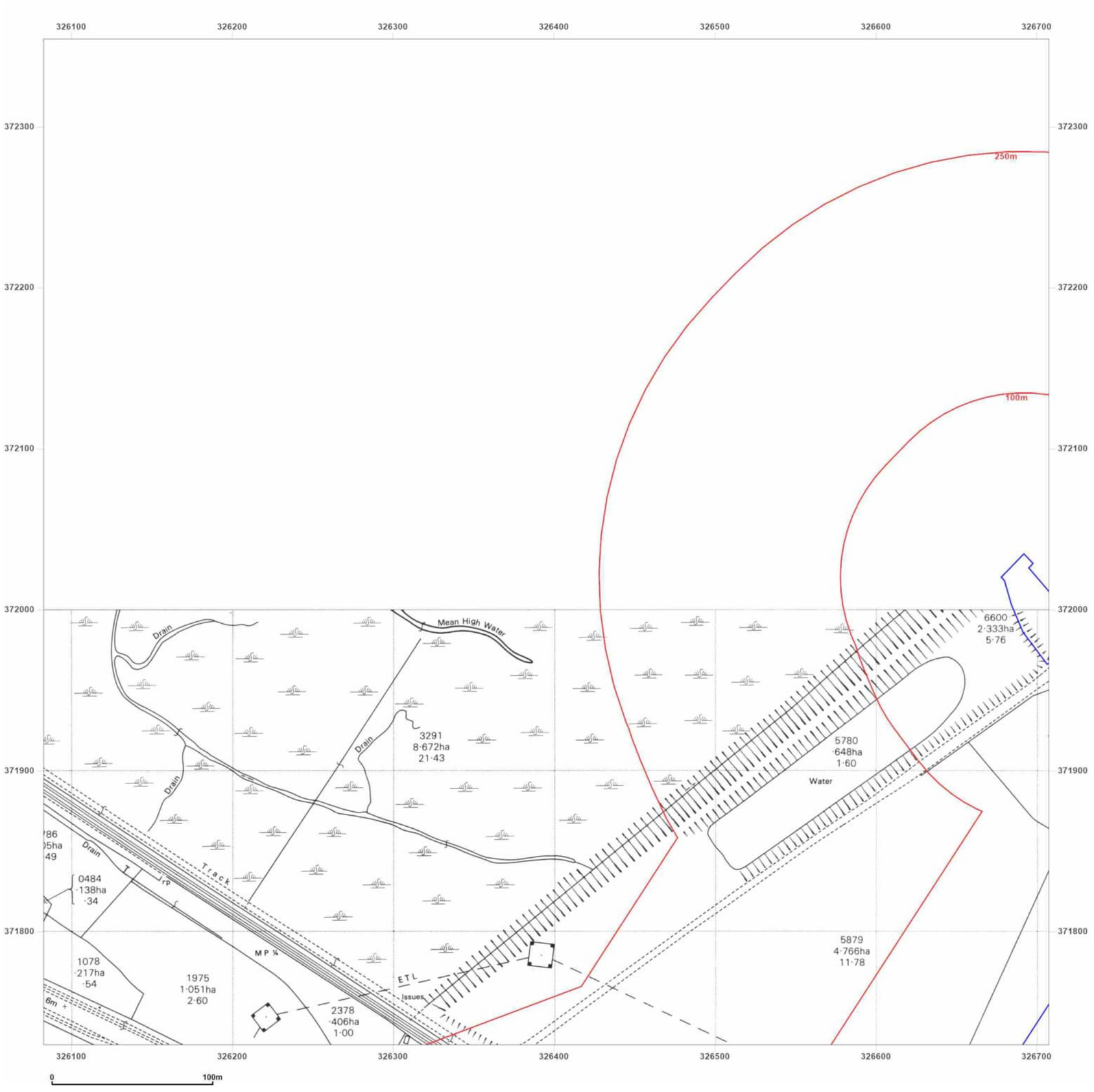
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid
Map date: 1986
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

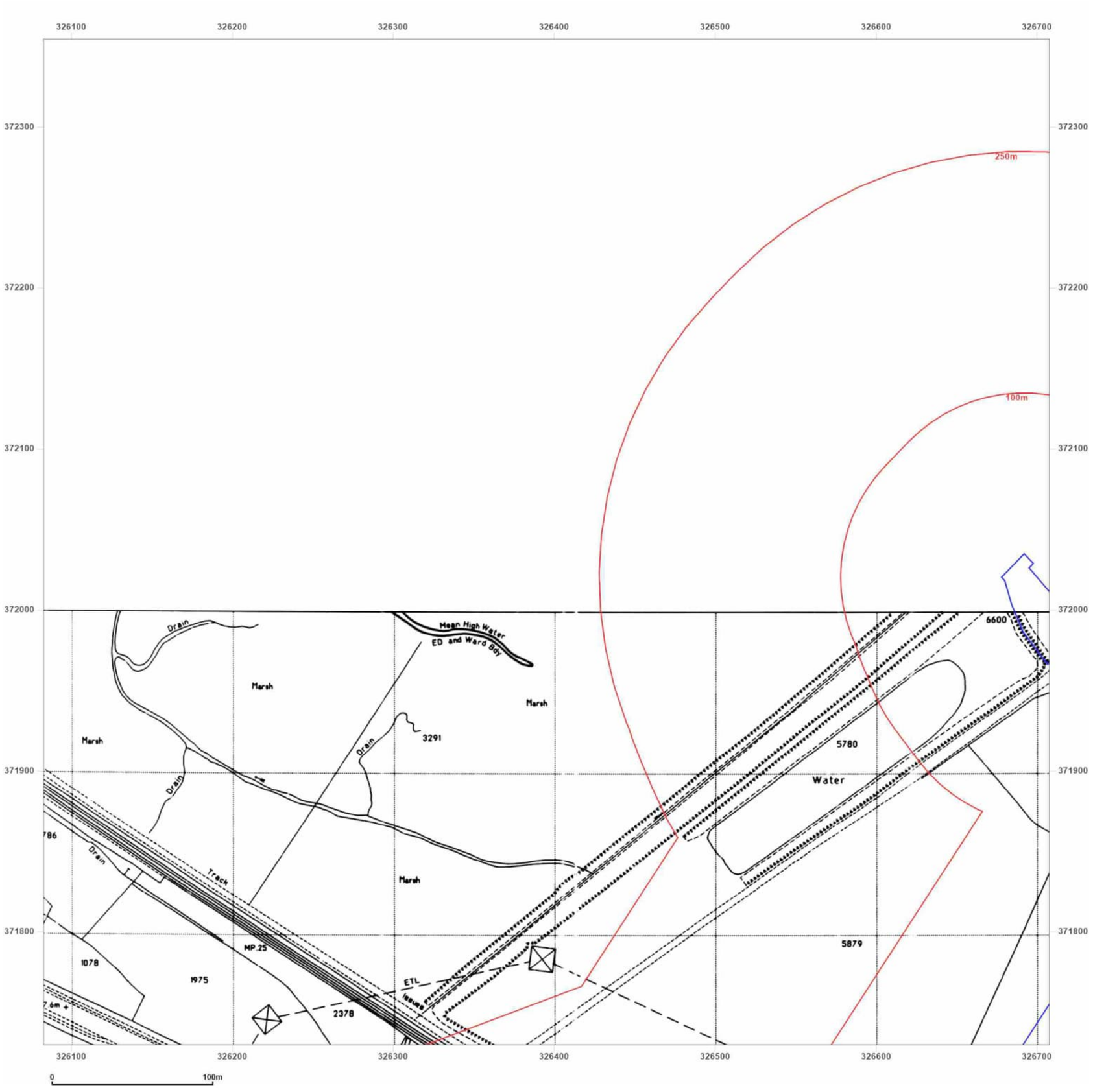
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

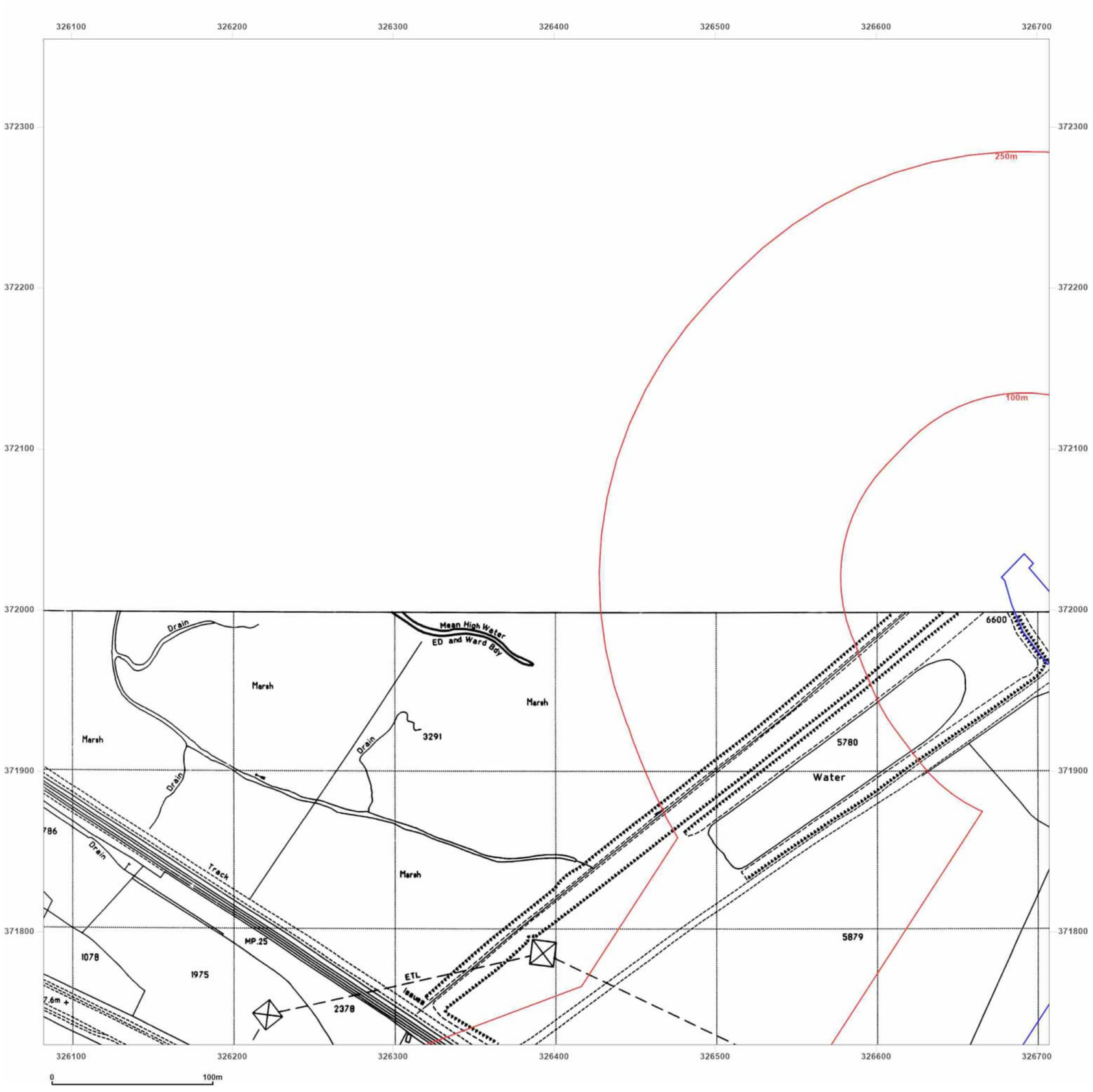
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

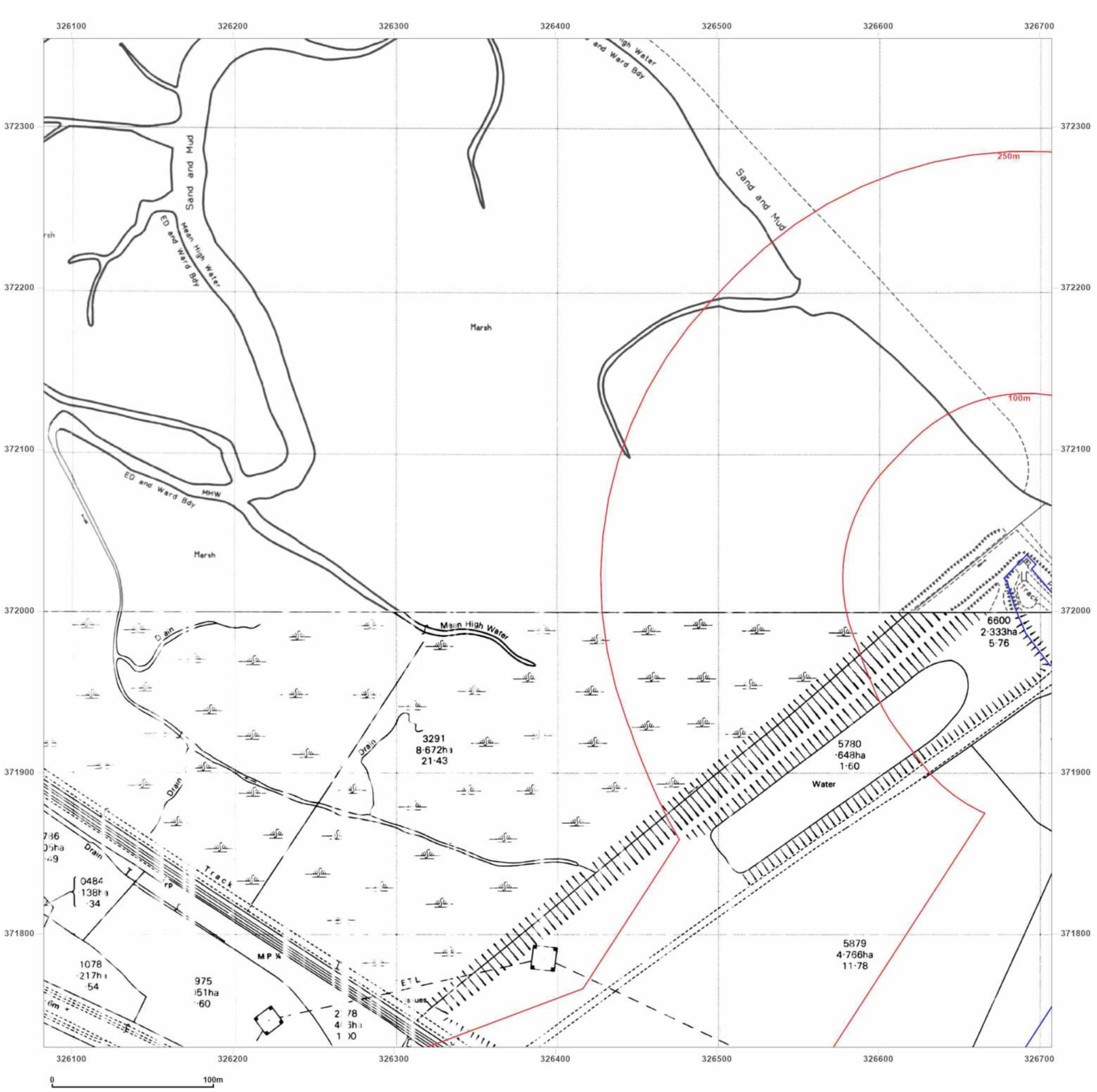
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_3_4
Grid Ref: 326395, 372042

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

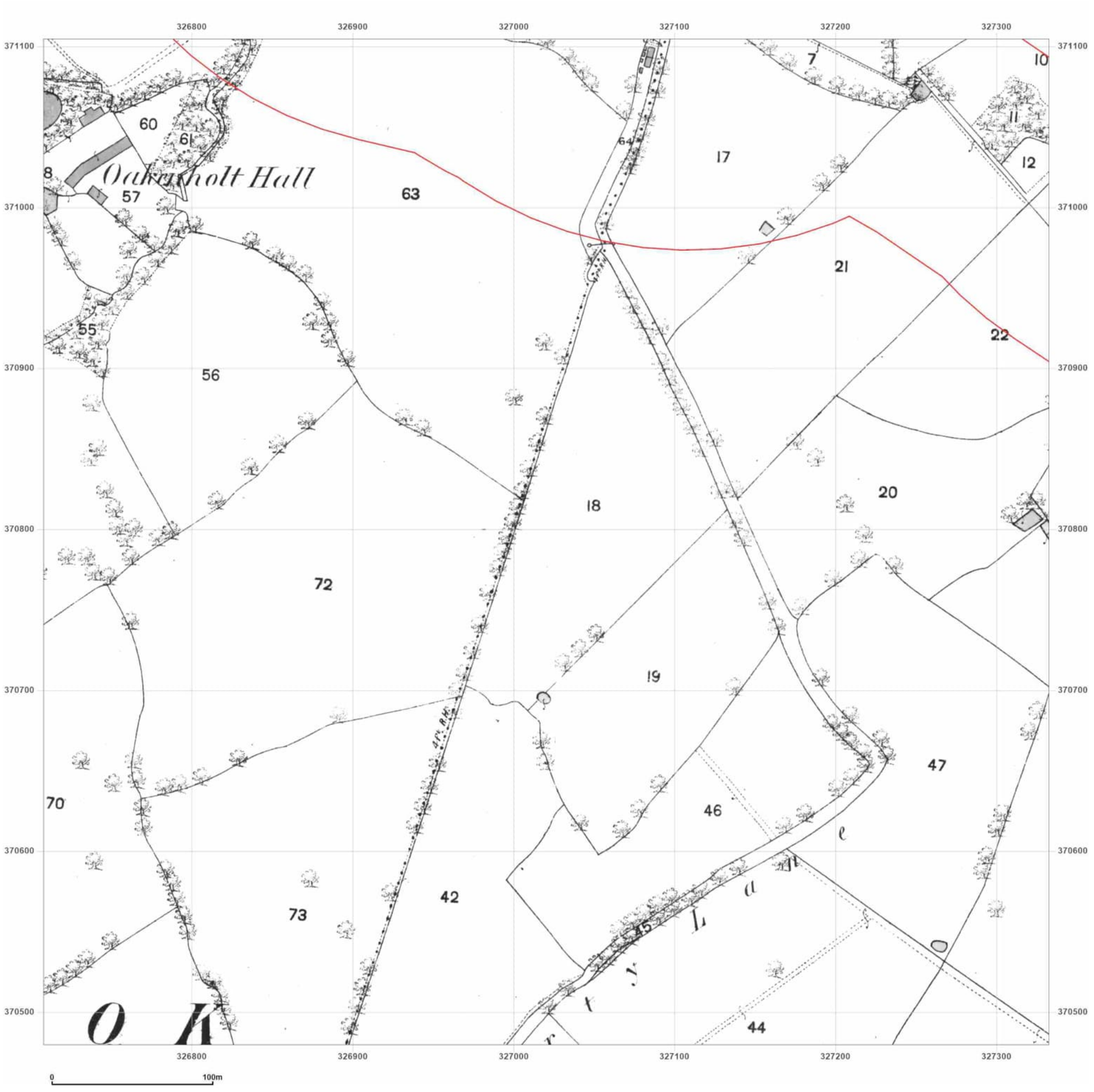
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: County Series
Map date: **1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

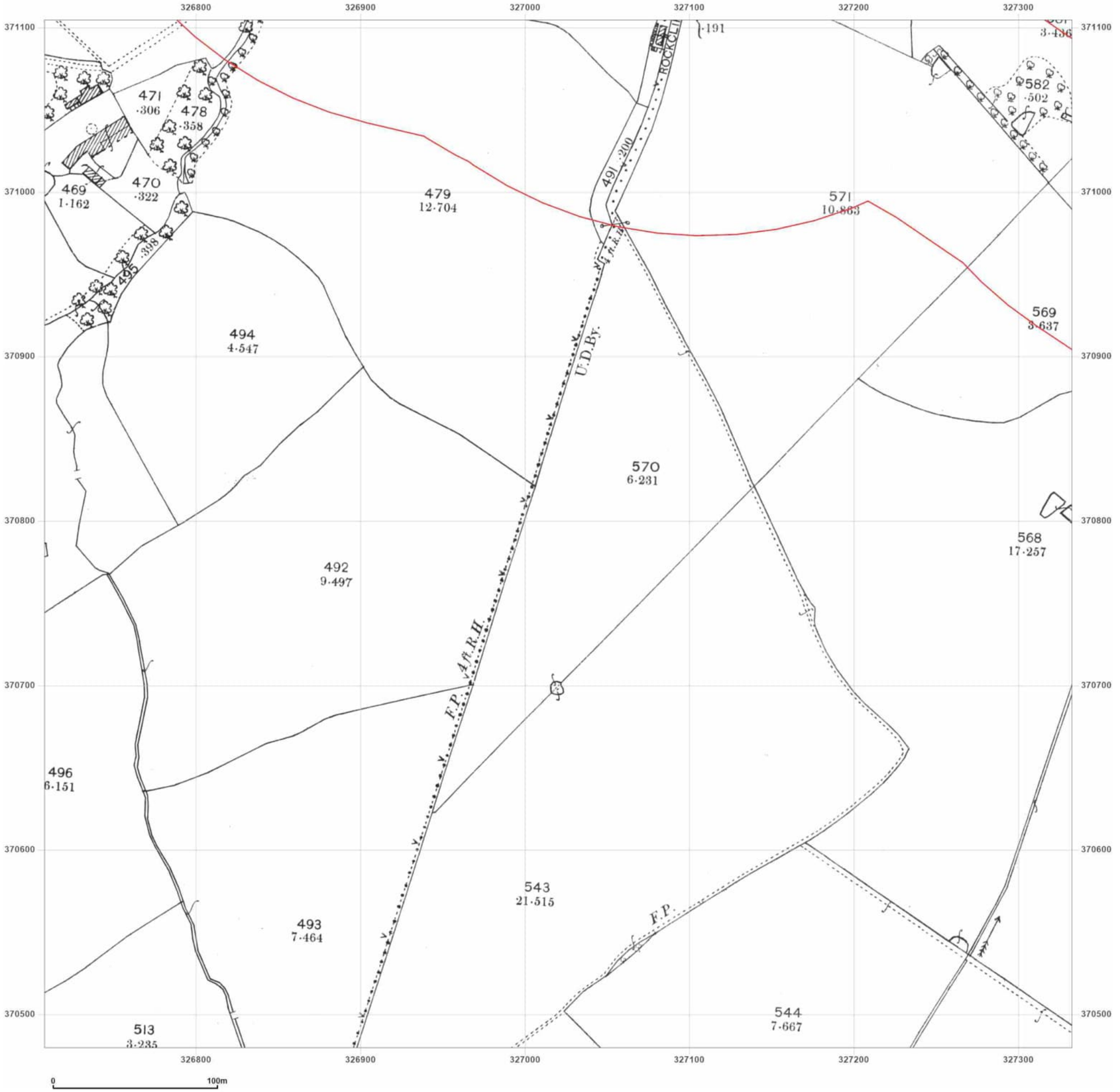
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

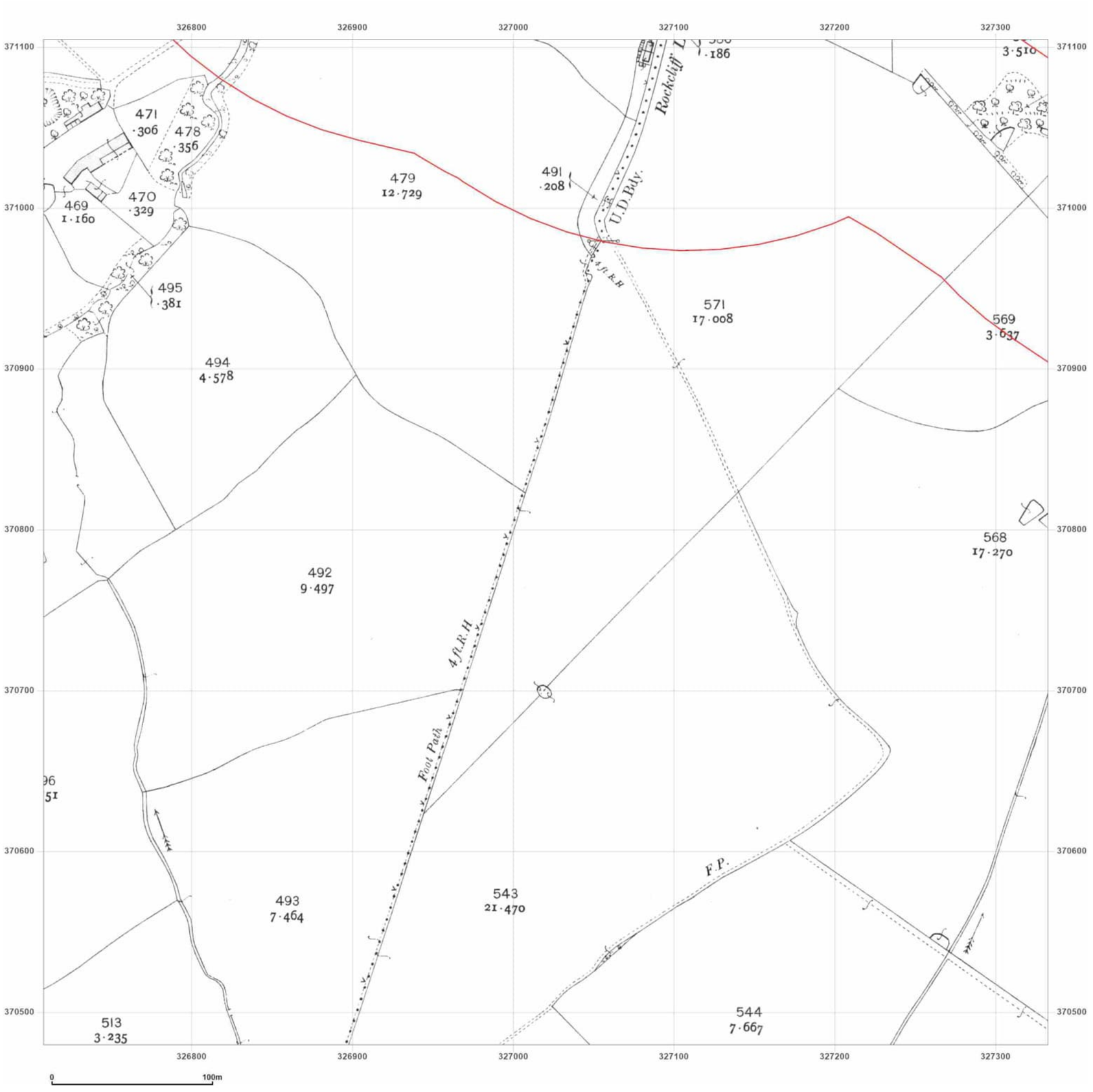
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

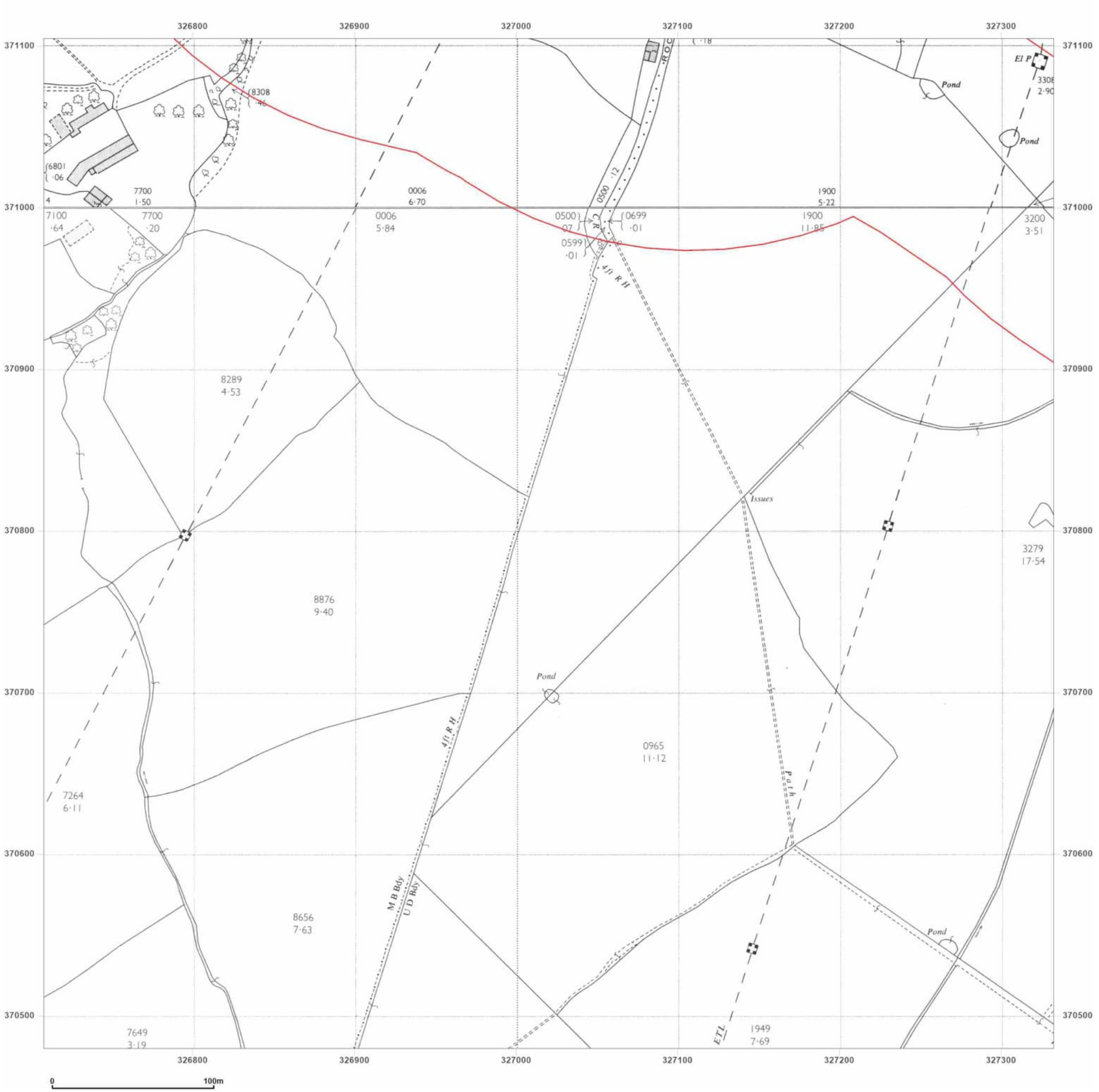
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: National Grid

Map date: **1962-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

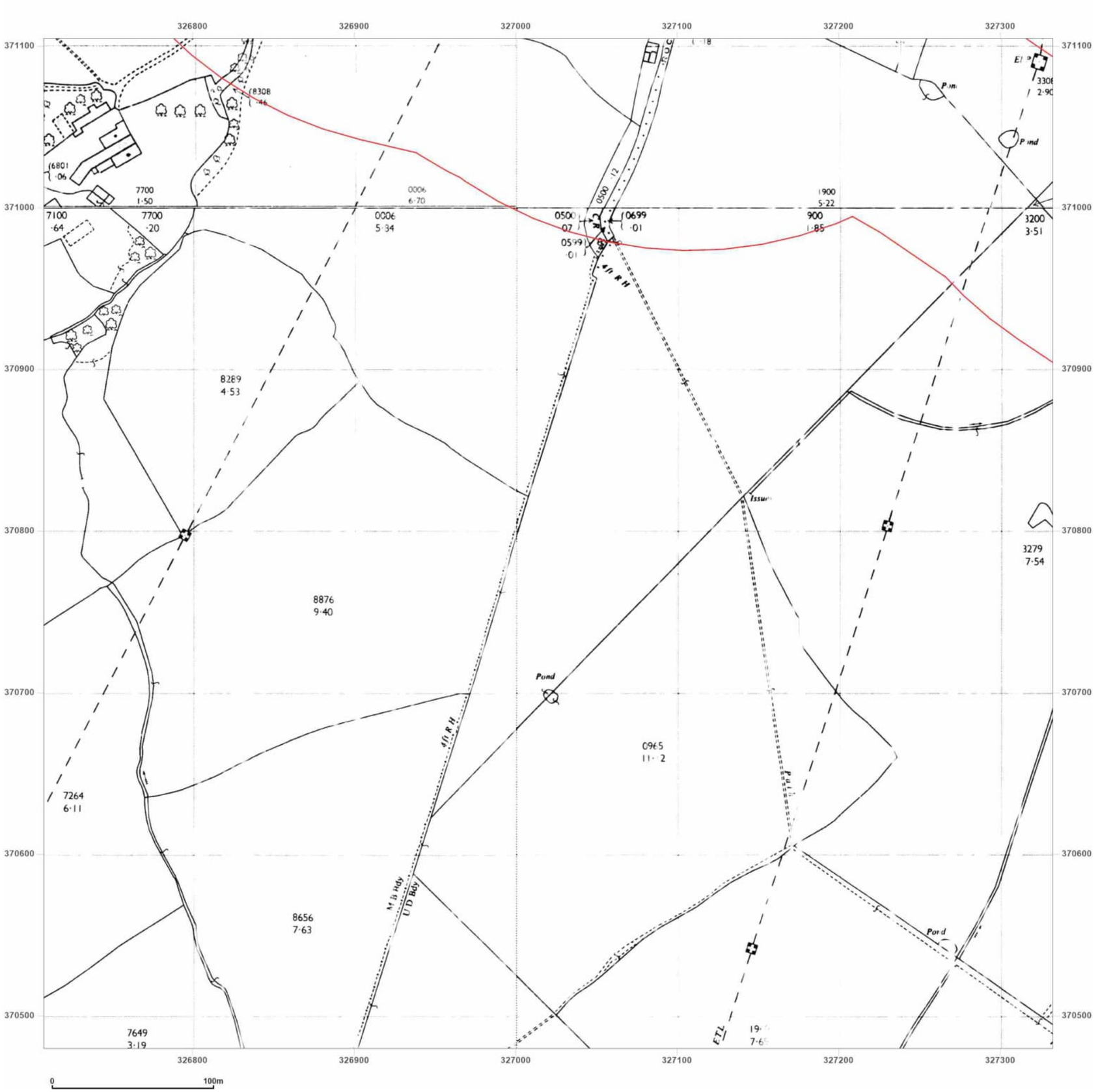
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: National Grid

Map date: **1959-1967**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1959

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

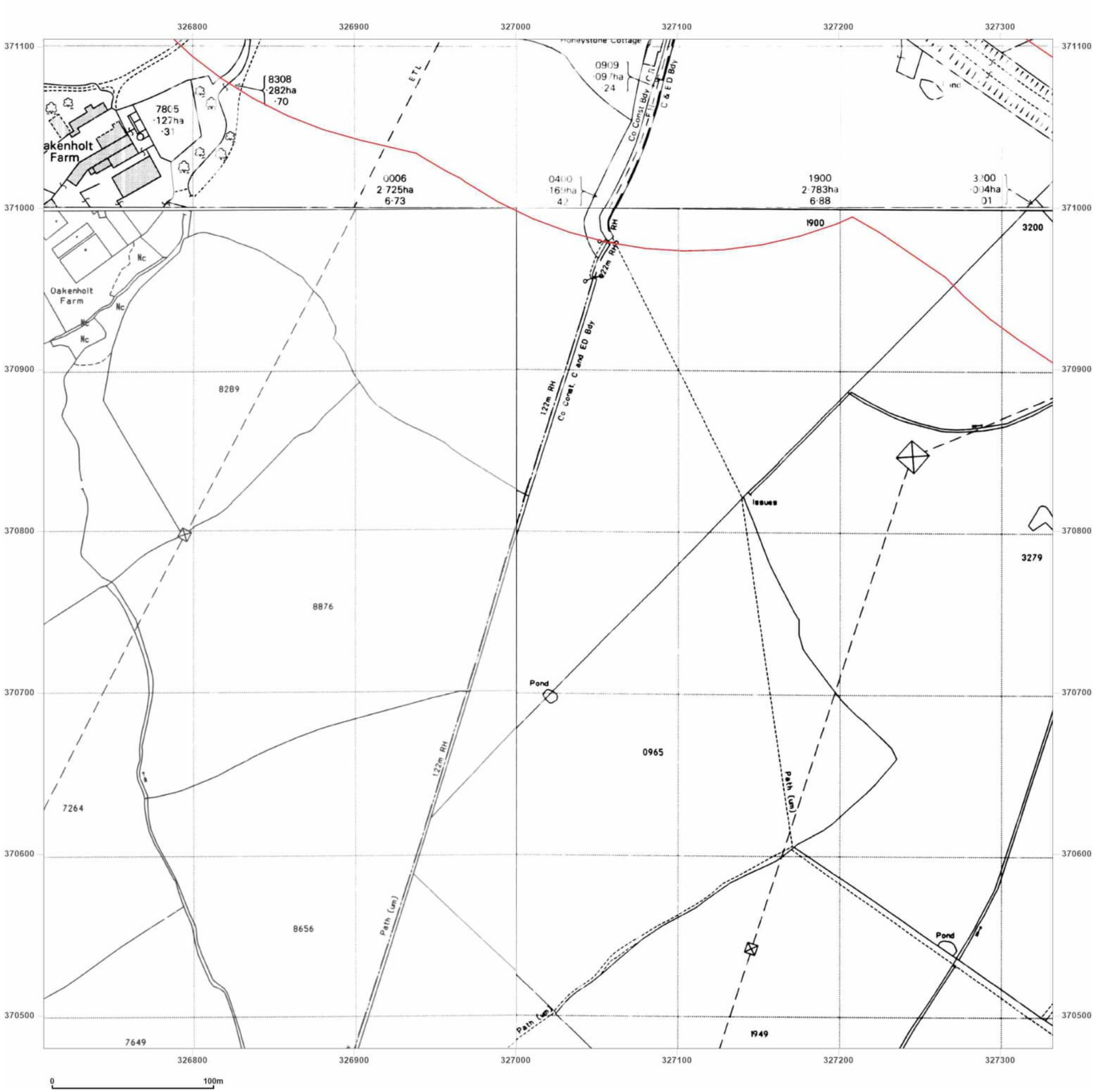
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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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

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

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

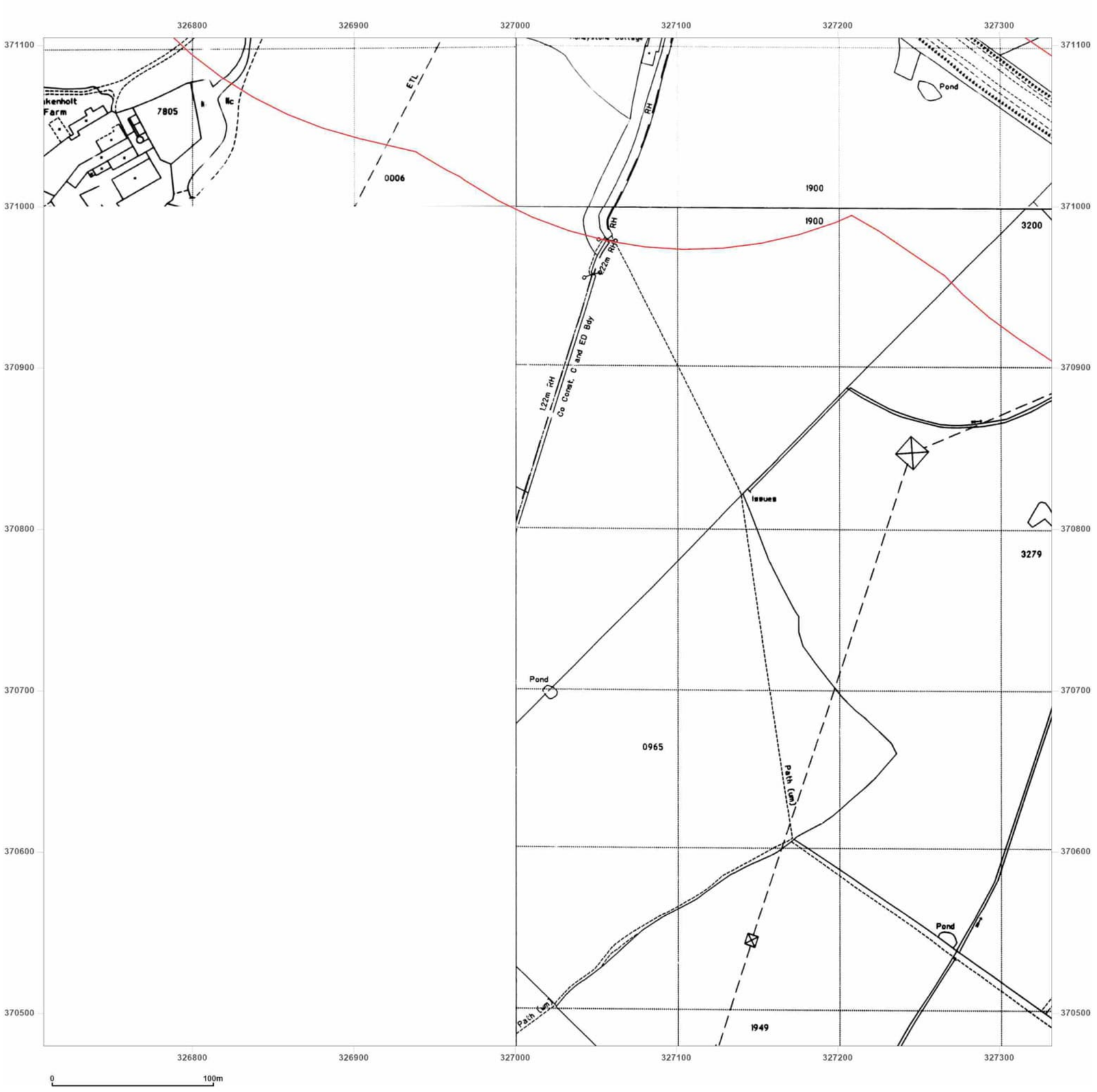
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_2
Grid Ref: 327020, 370792

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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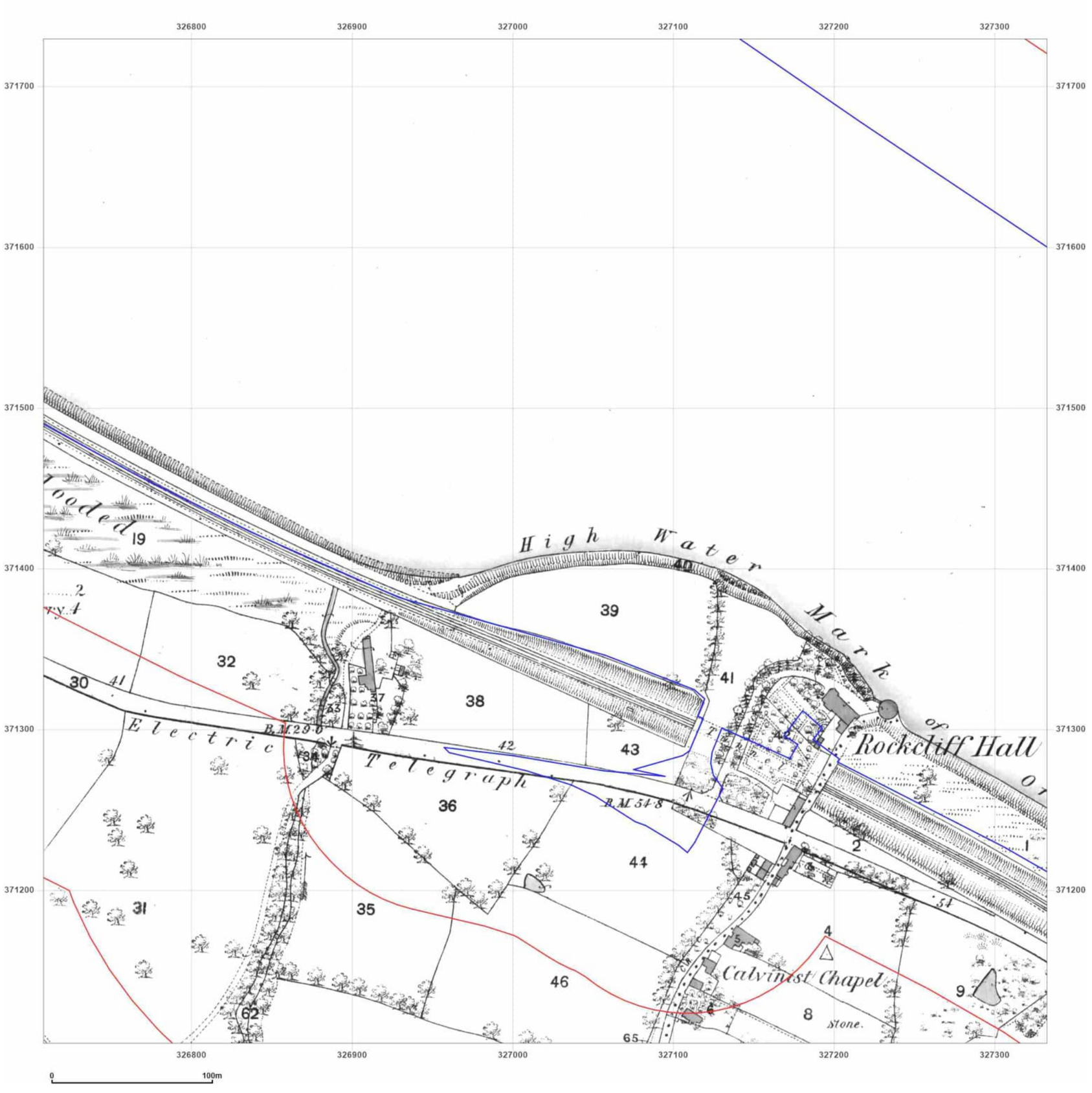
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

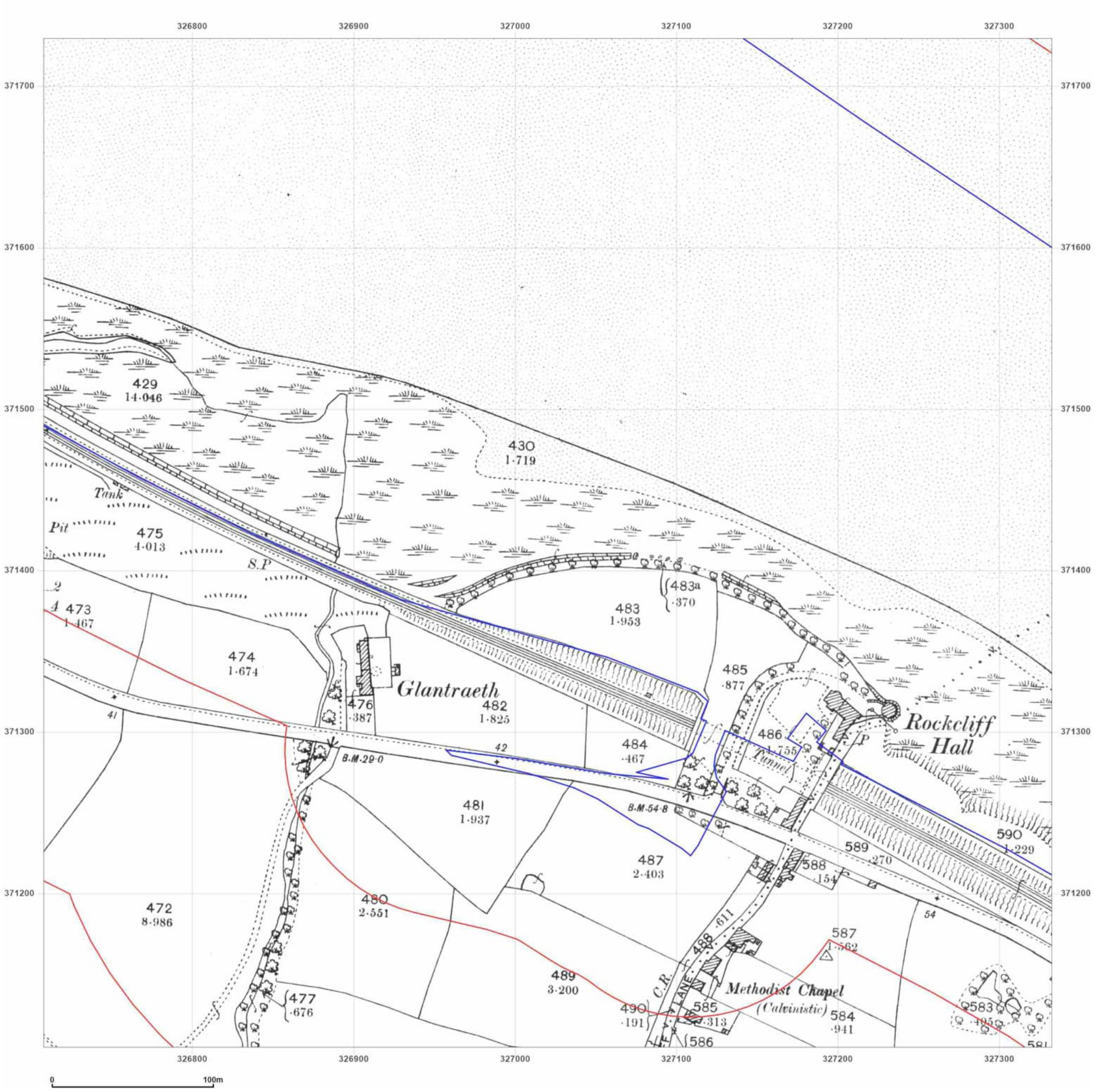
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

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

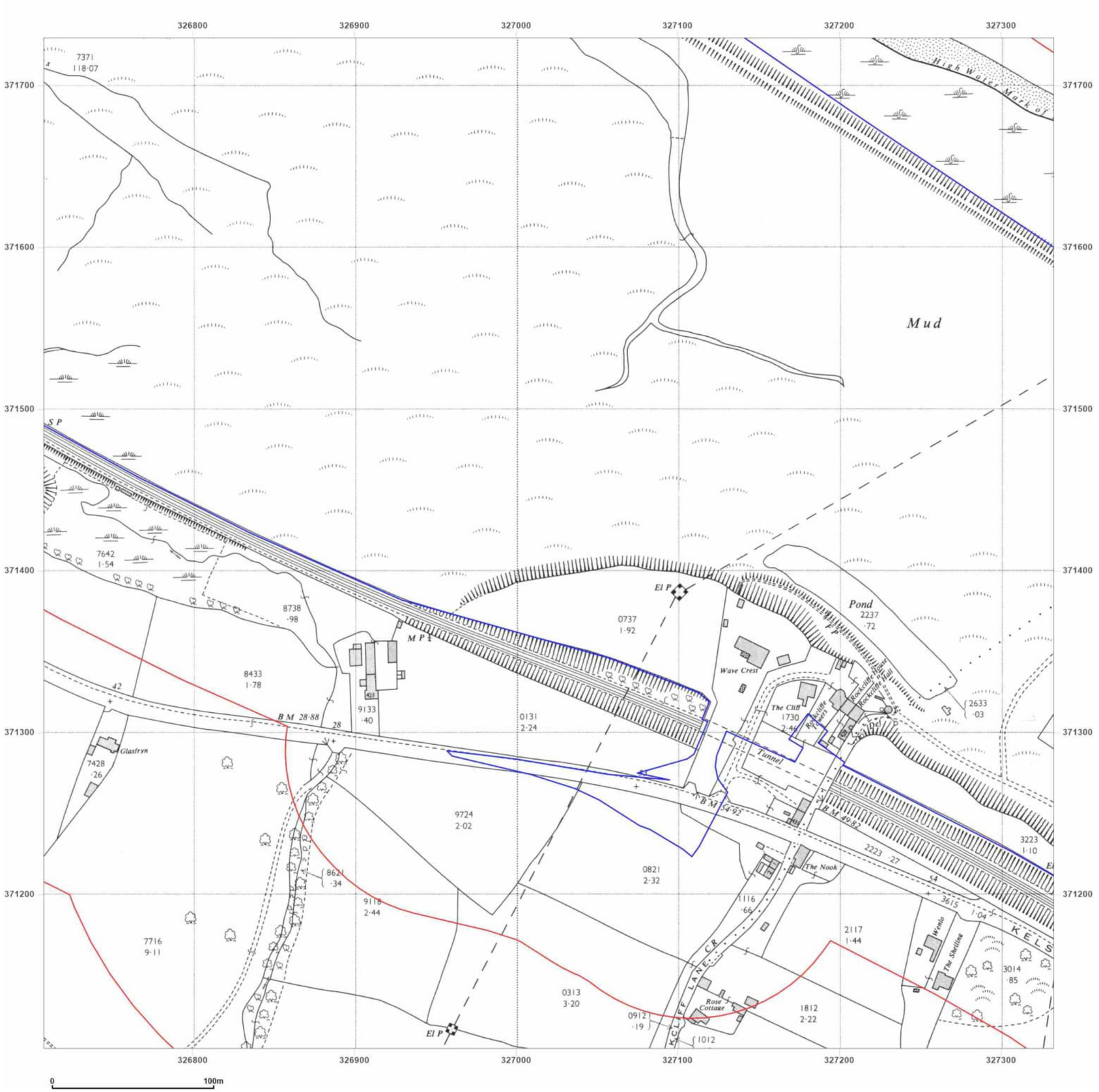
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

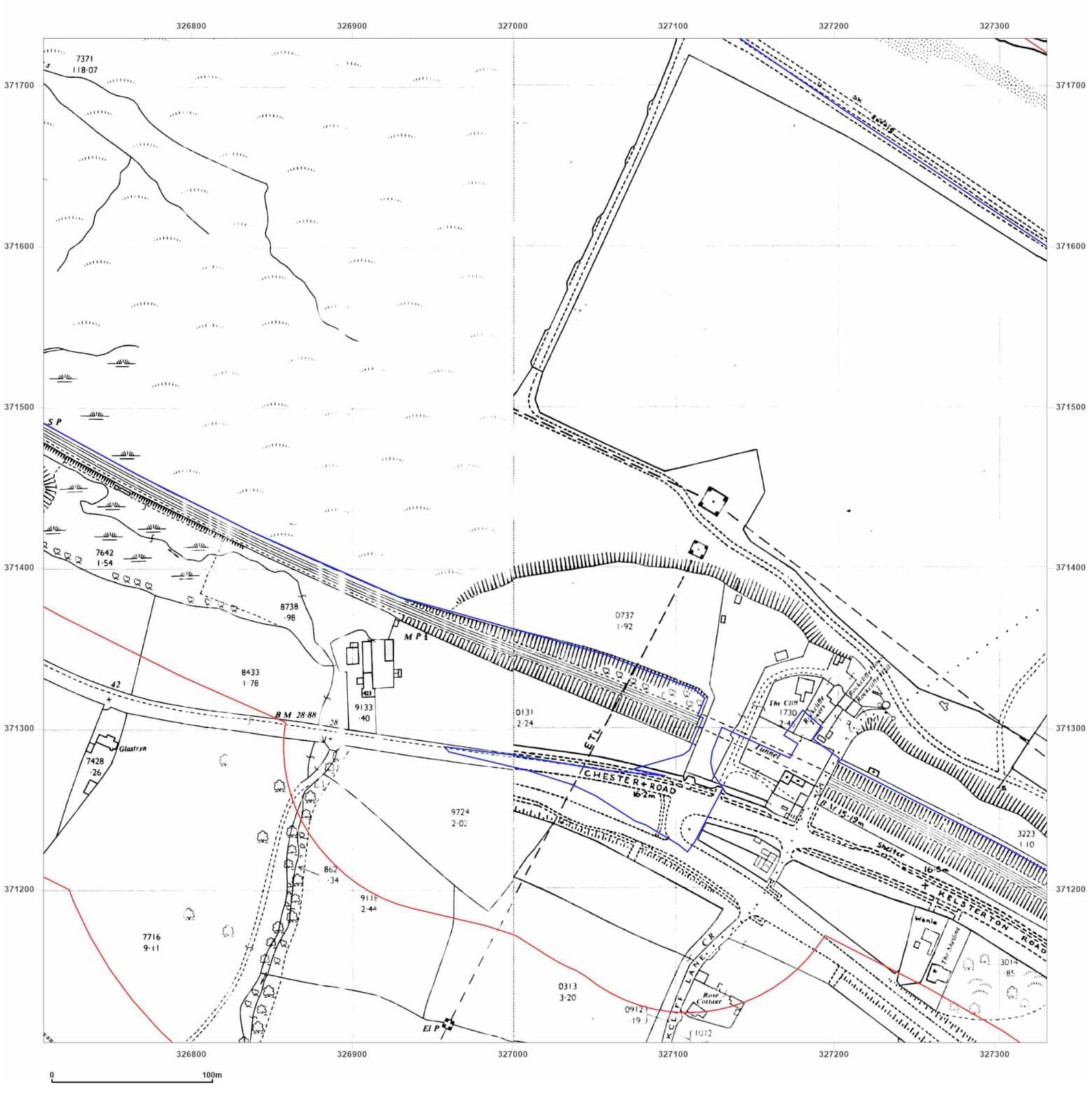
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: **1959-1964**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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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 1959

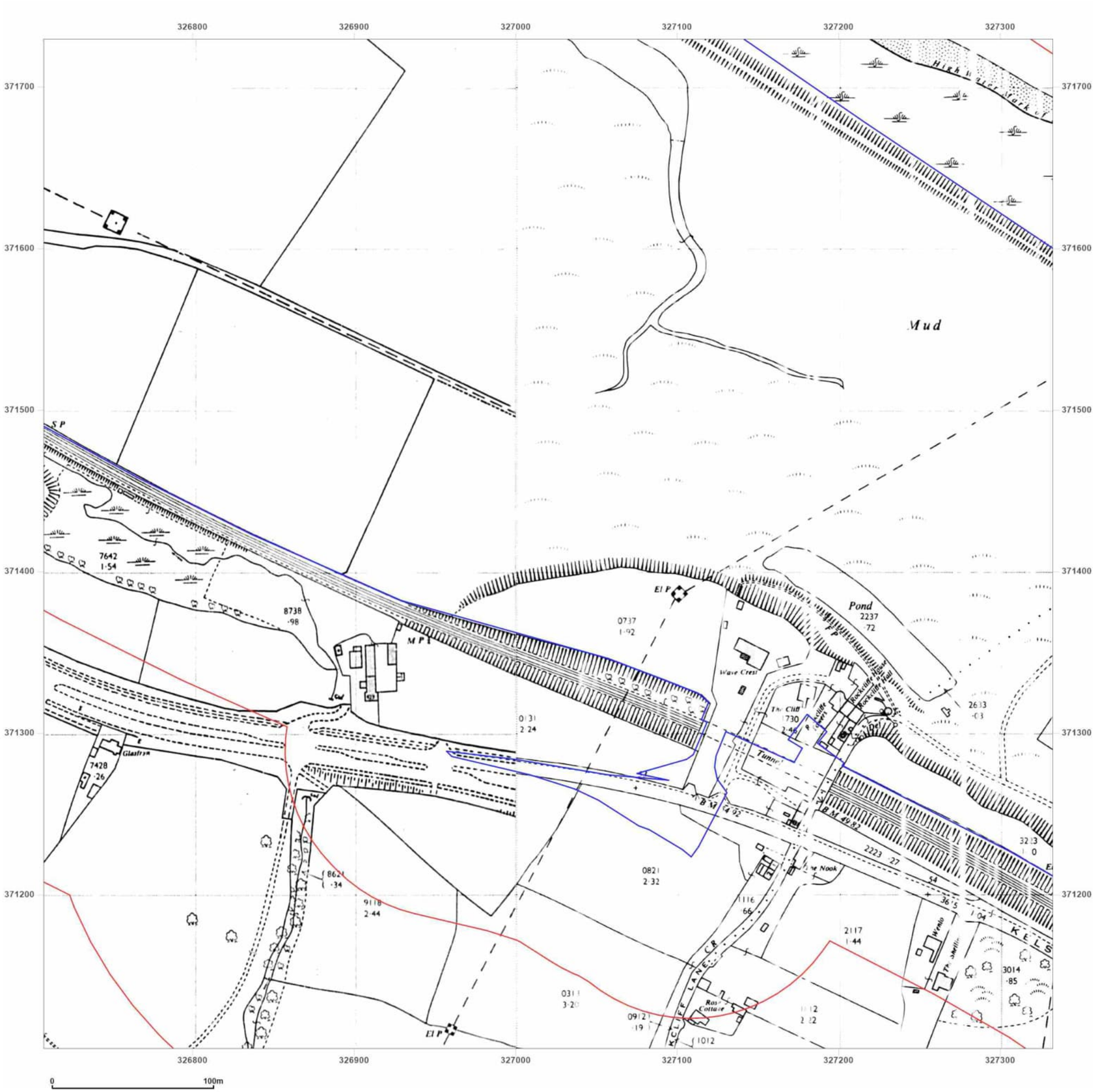
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: **1959-1964**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled 1959	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

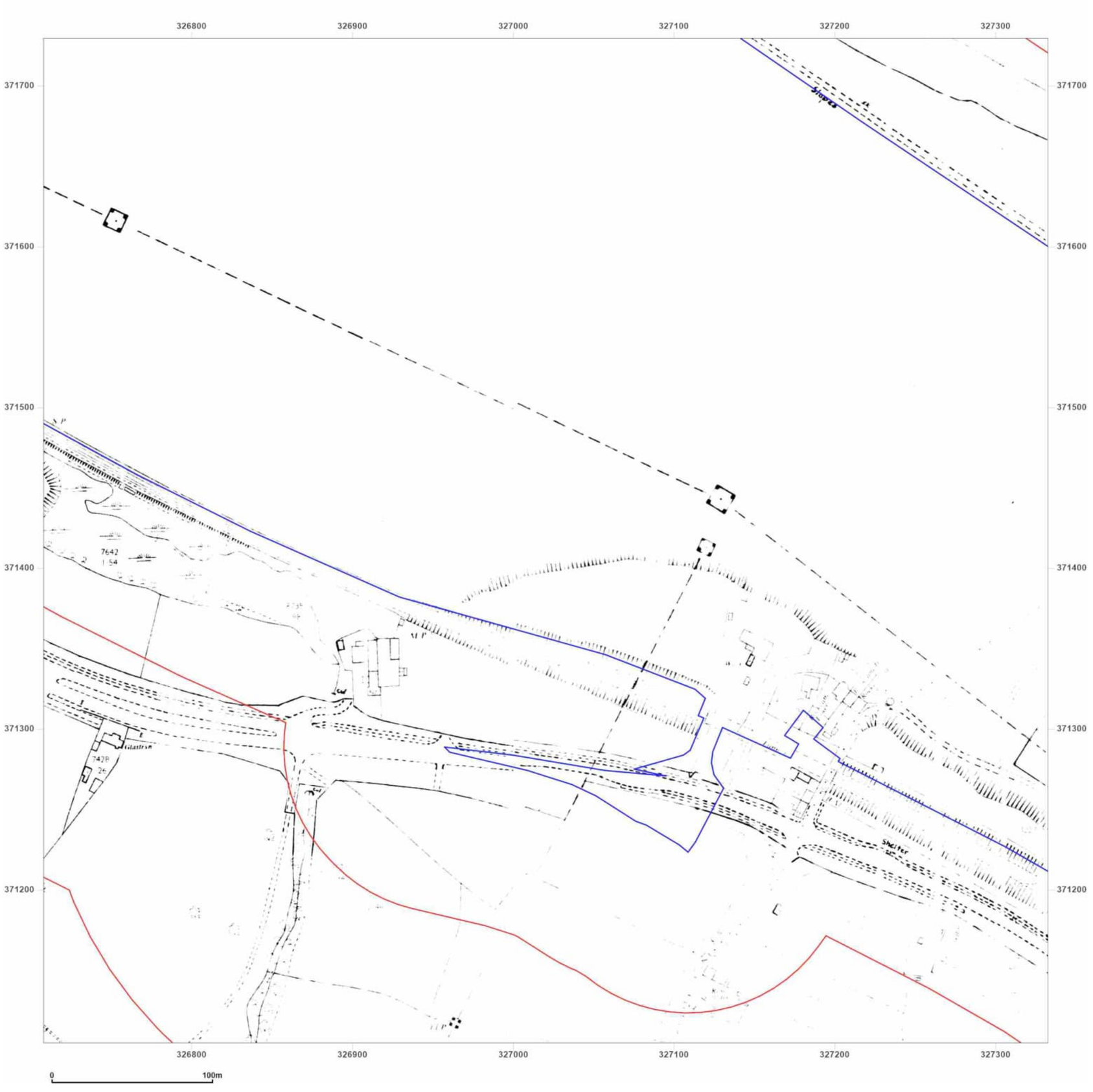
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: **1973**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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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

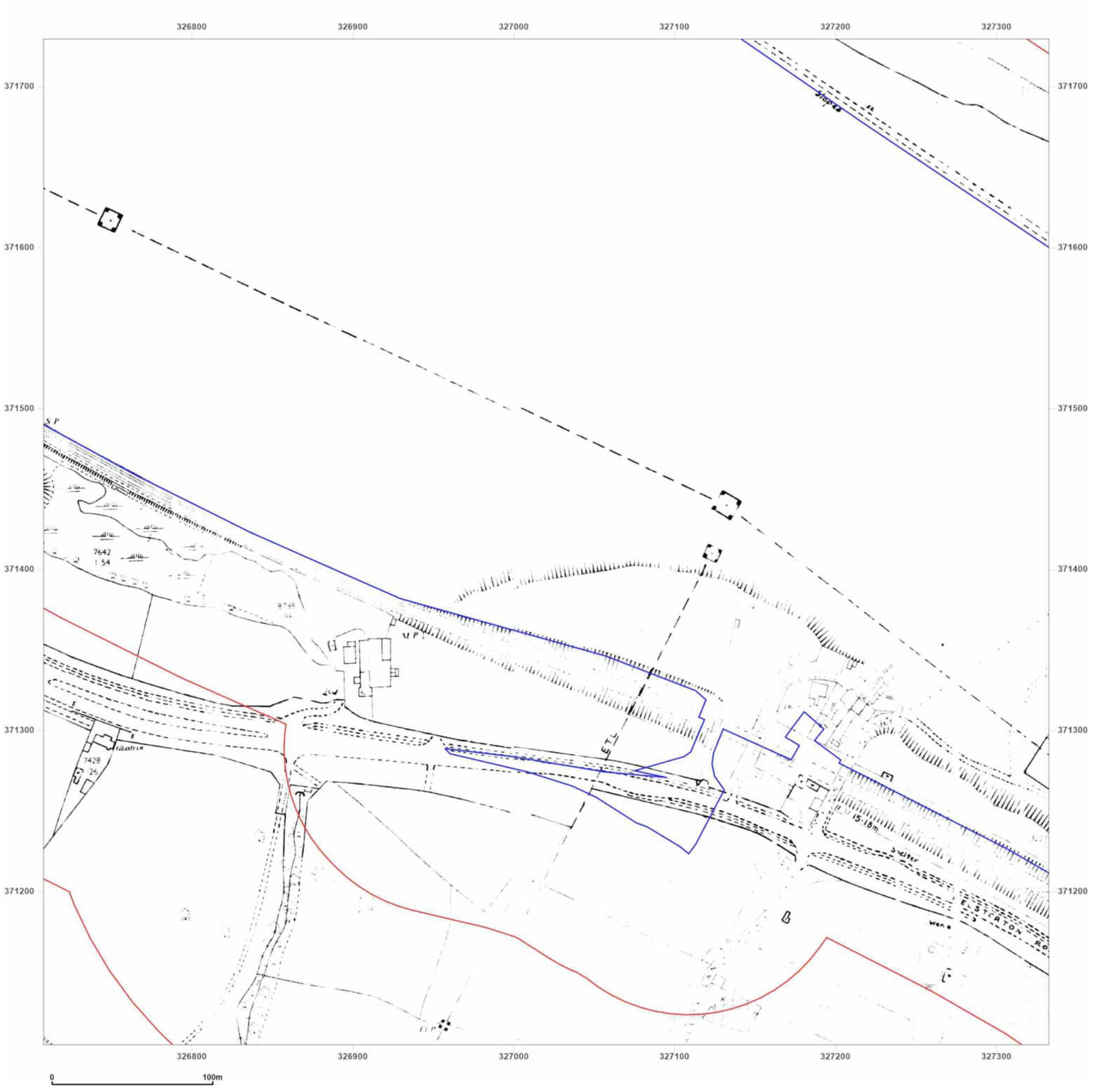
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: **1977**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

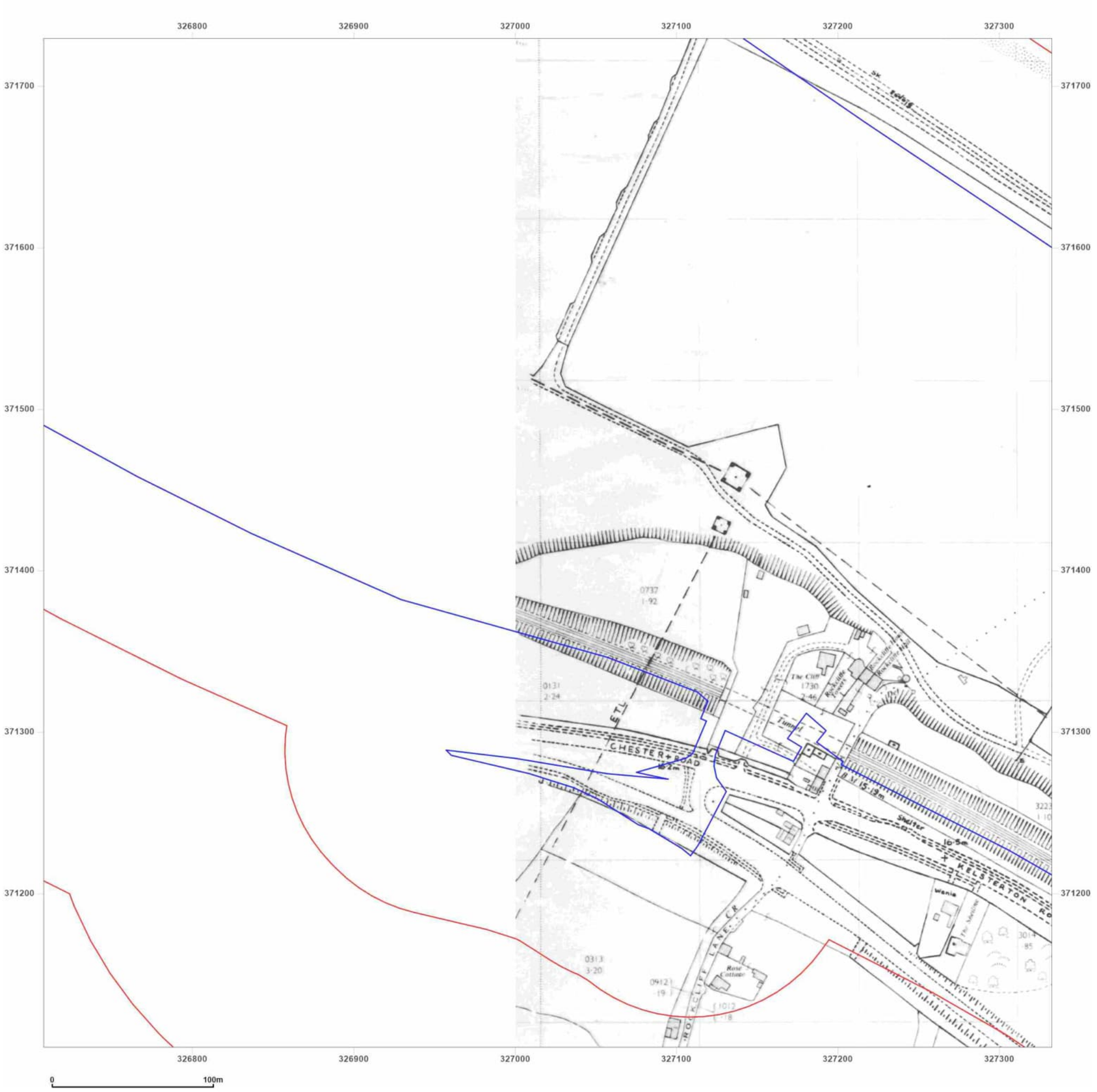
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: 1979
Scale: 1:2,500
Printed at: 1:2,500

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

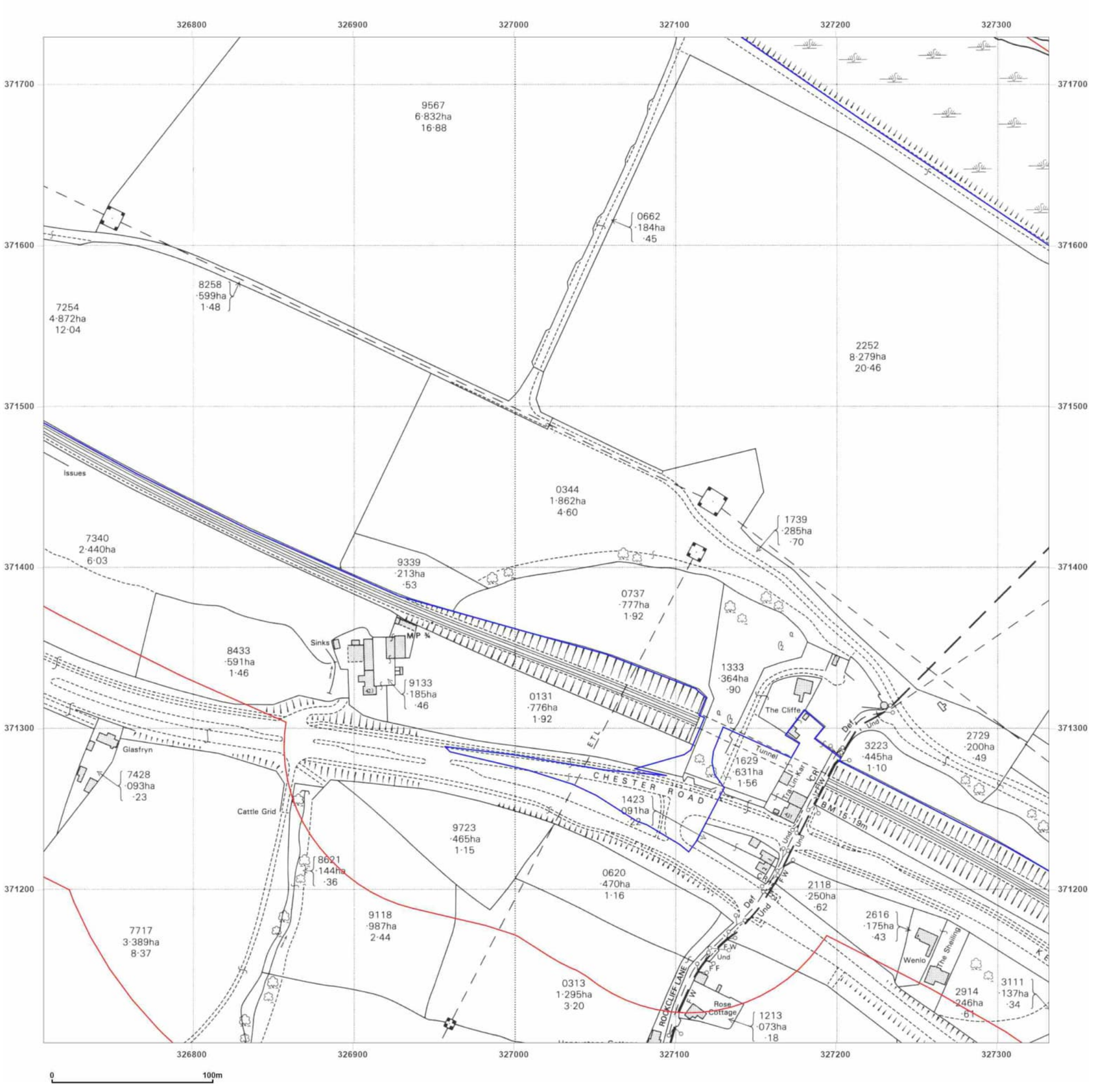
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

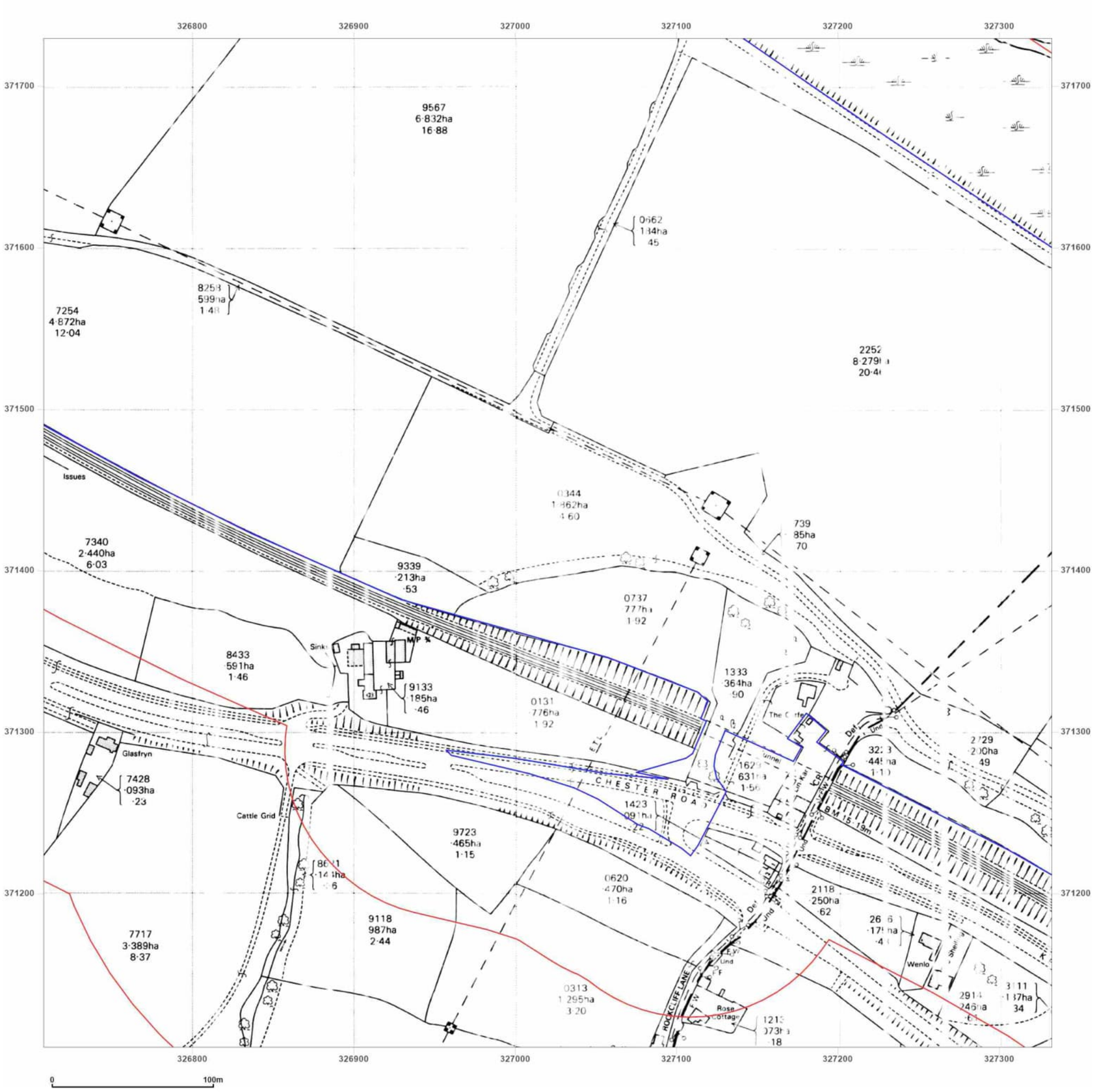
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: 1988
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

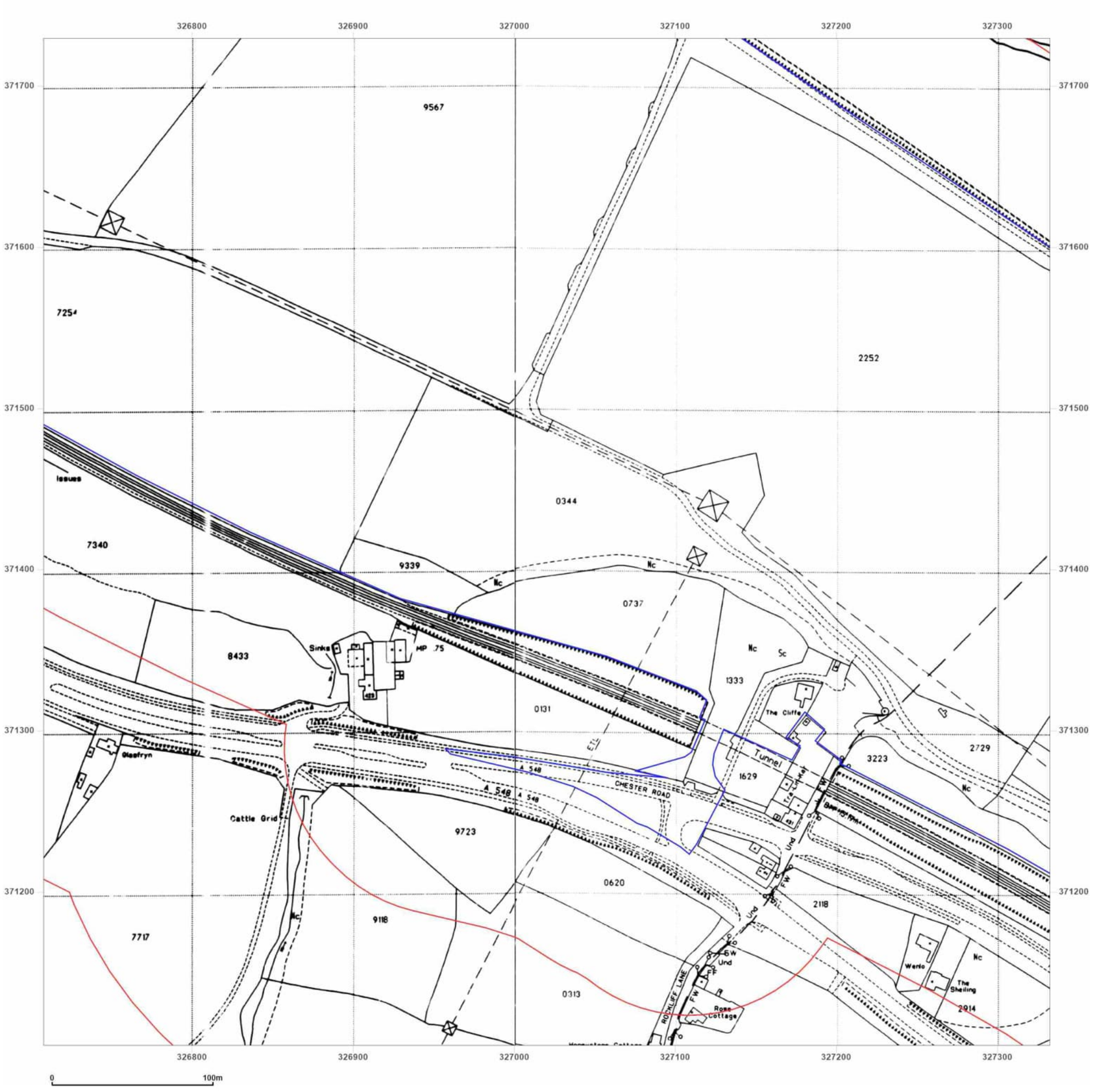
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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

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

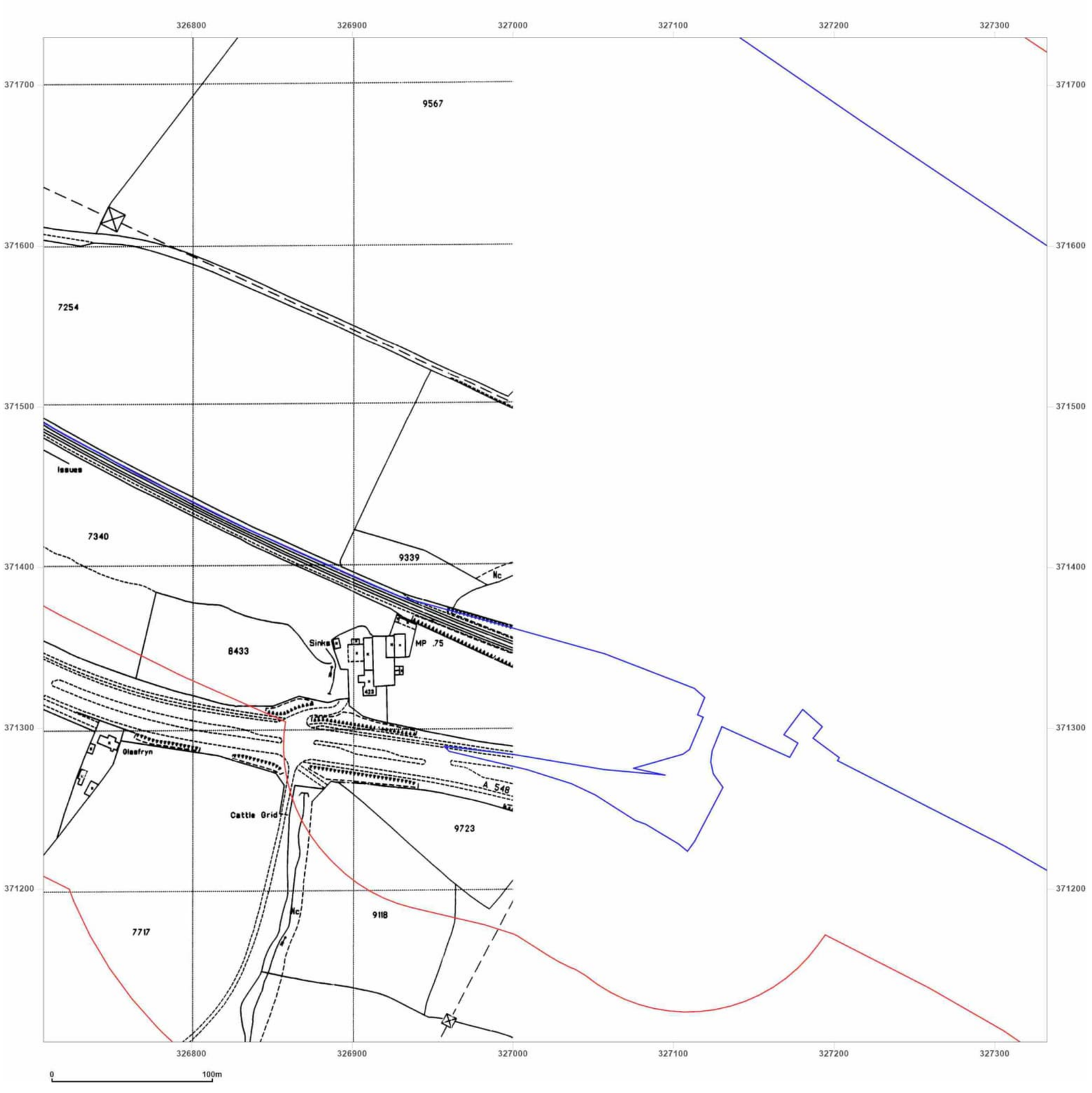
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_3
Grid Ref: 327020, 371417

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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

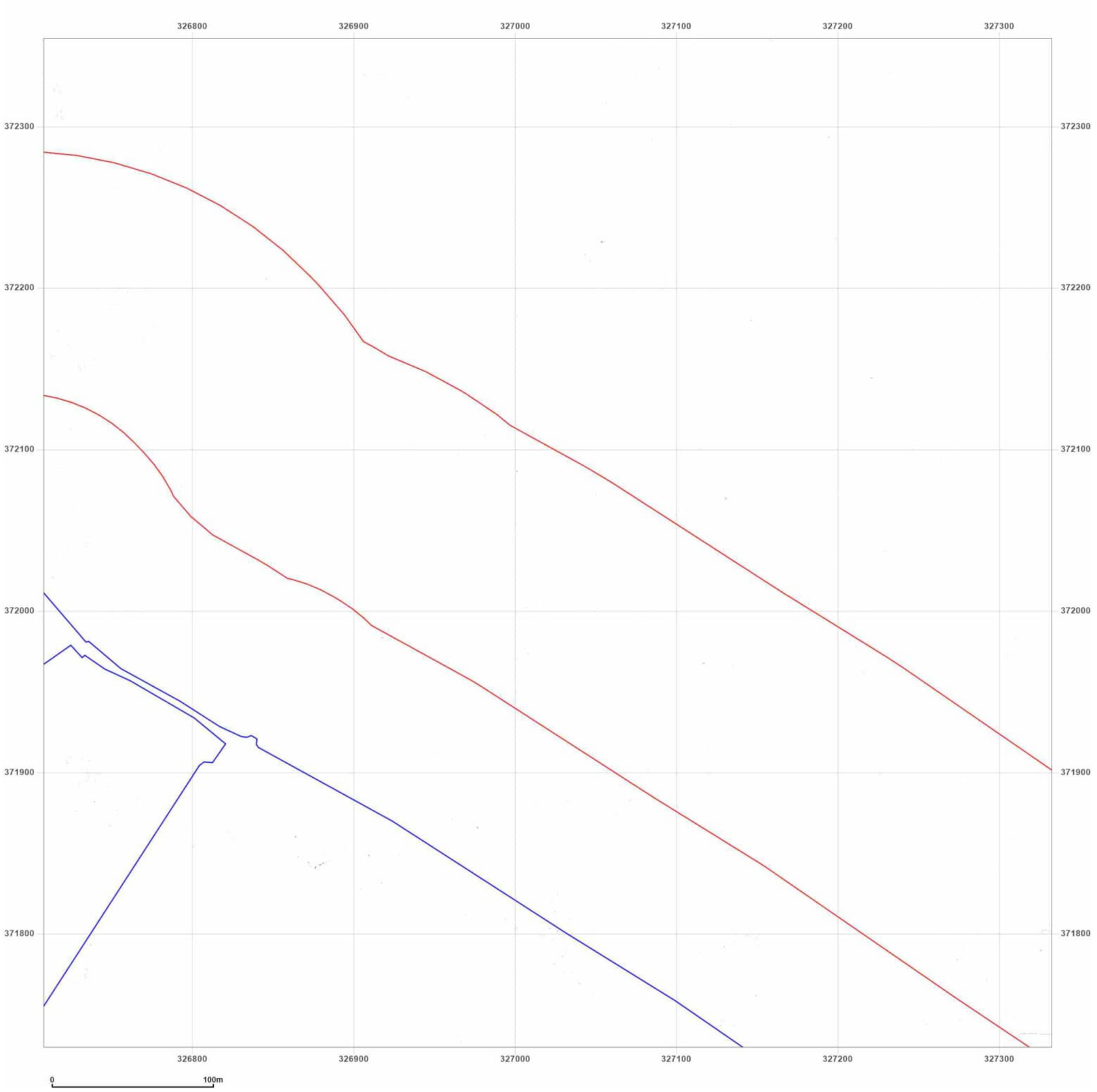
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

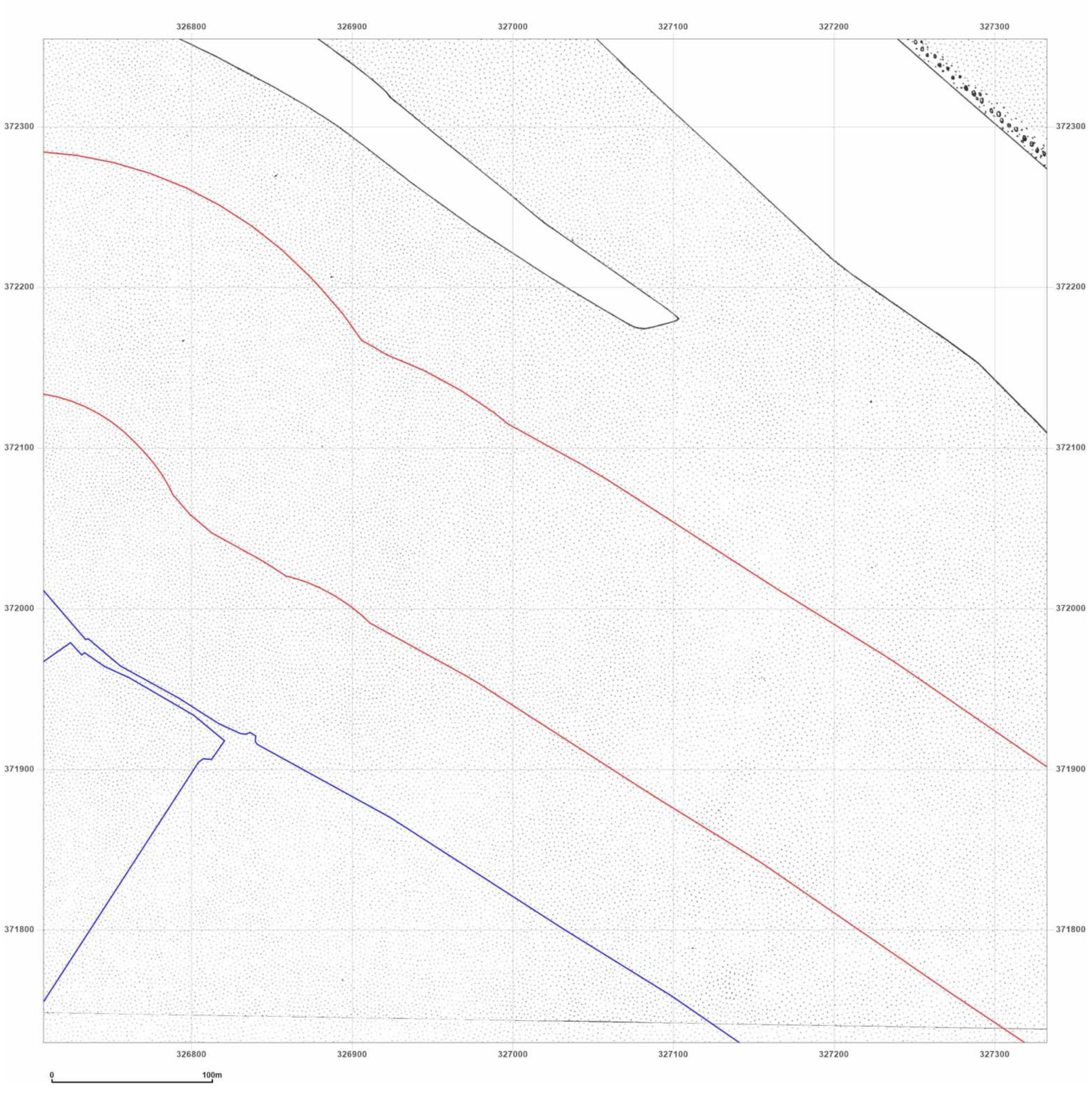
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
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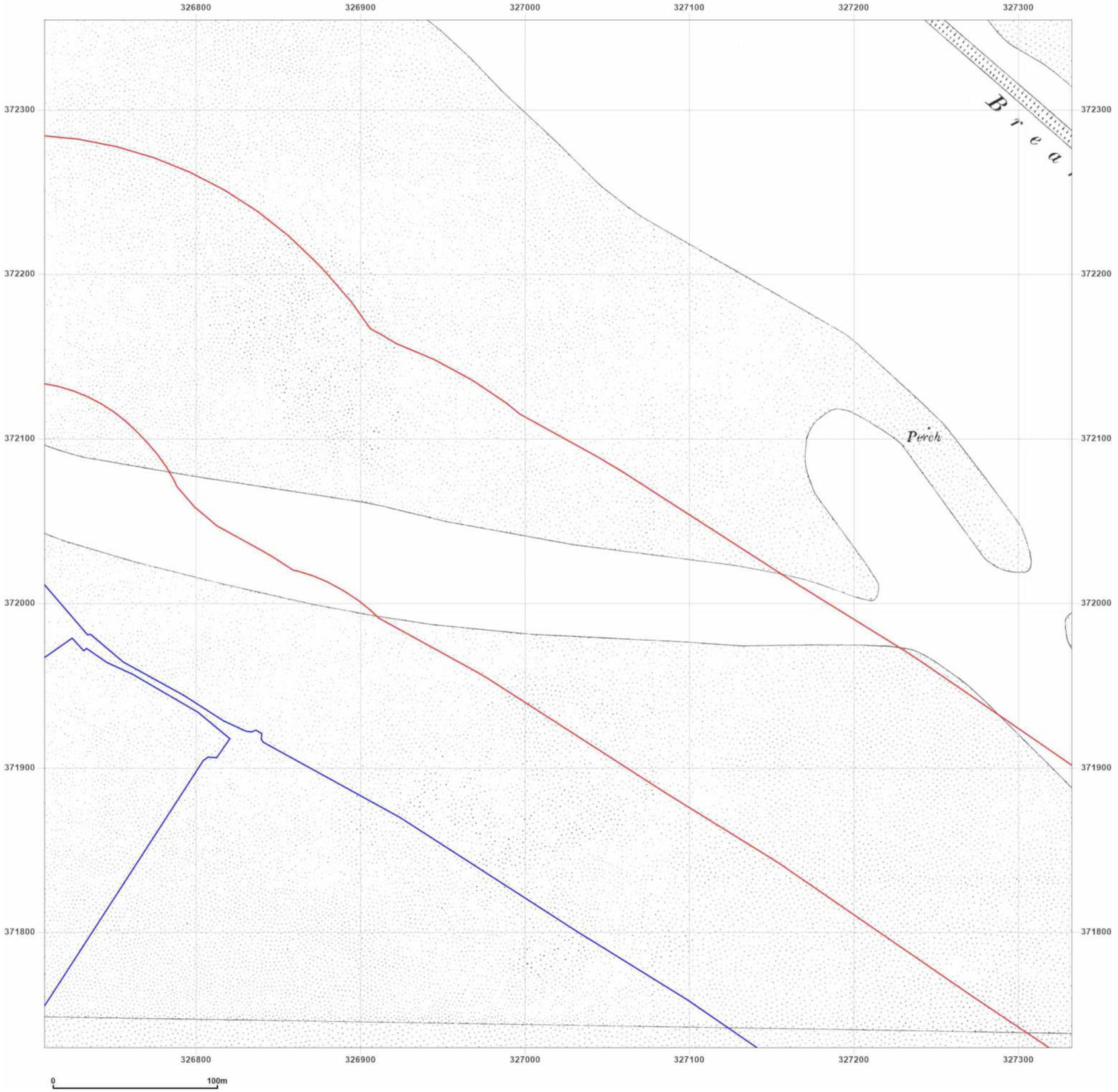
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

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

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

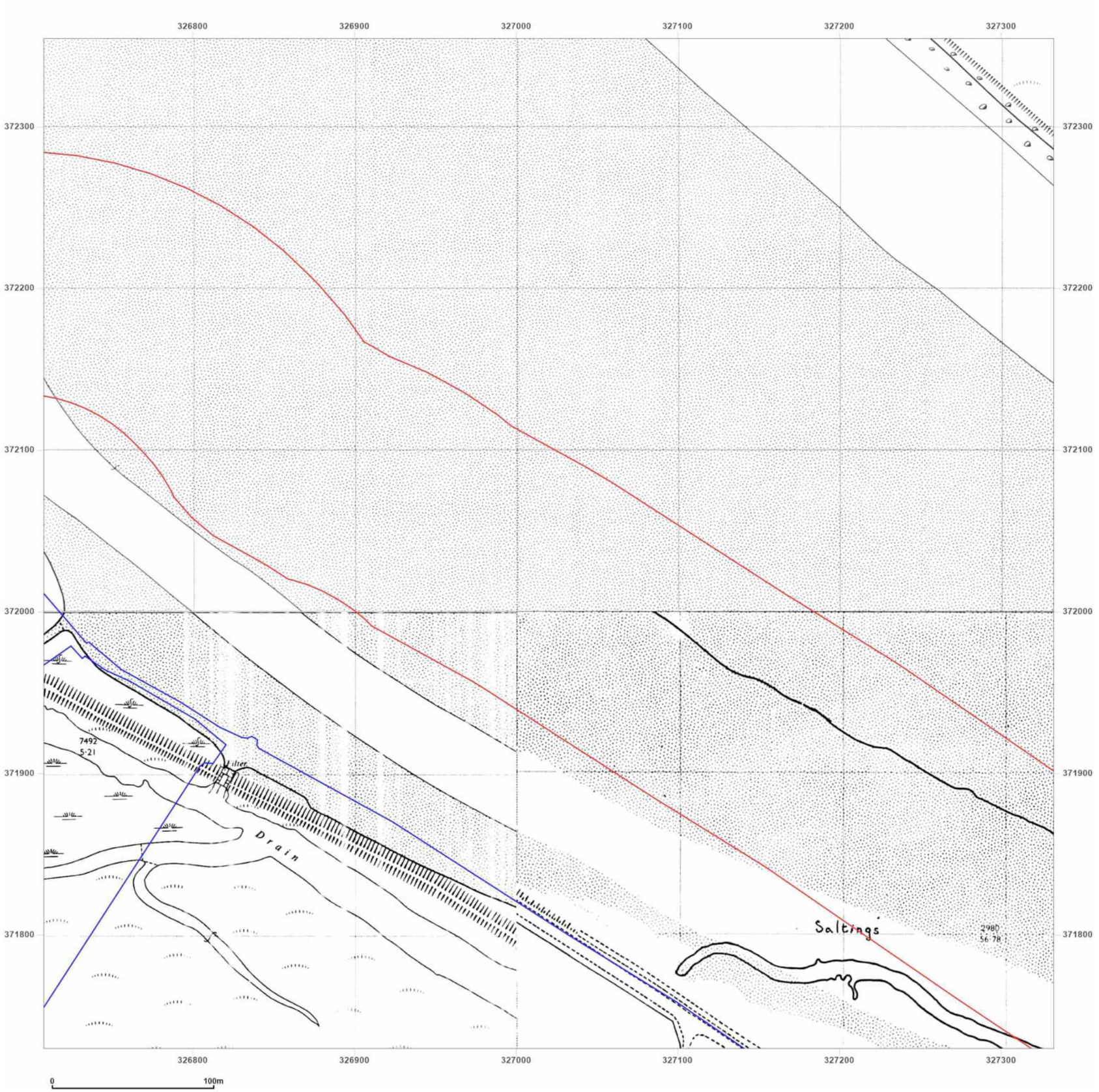
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid

Map date: **1959-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

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 1959

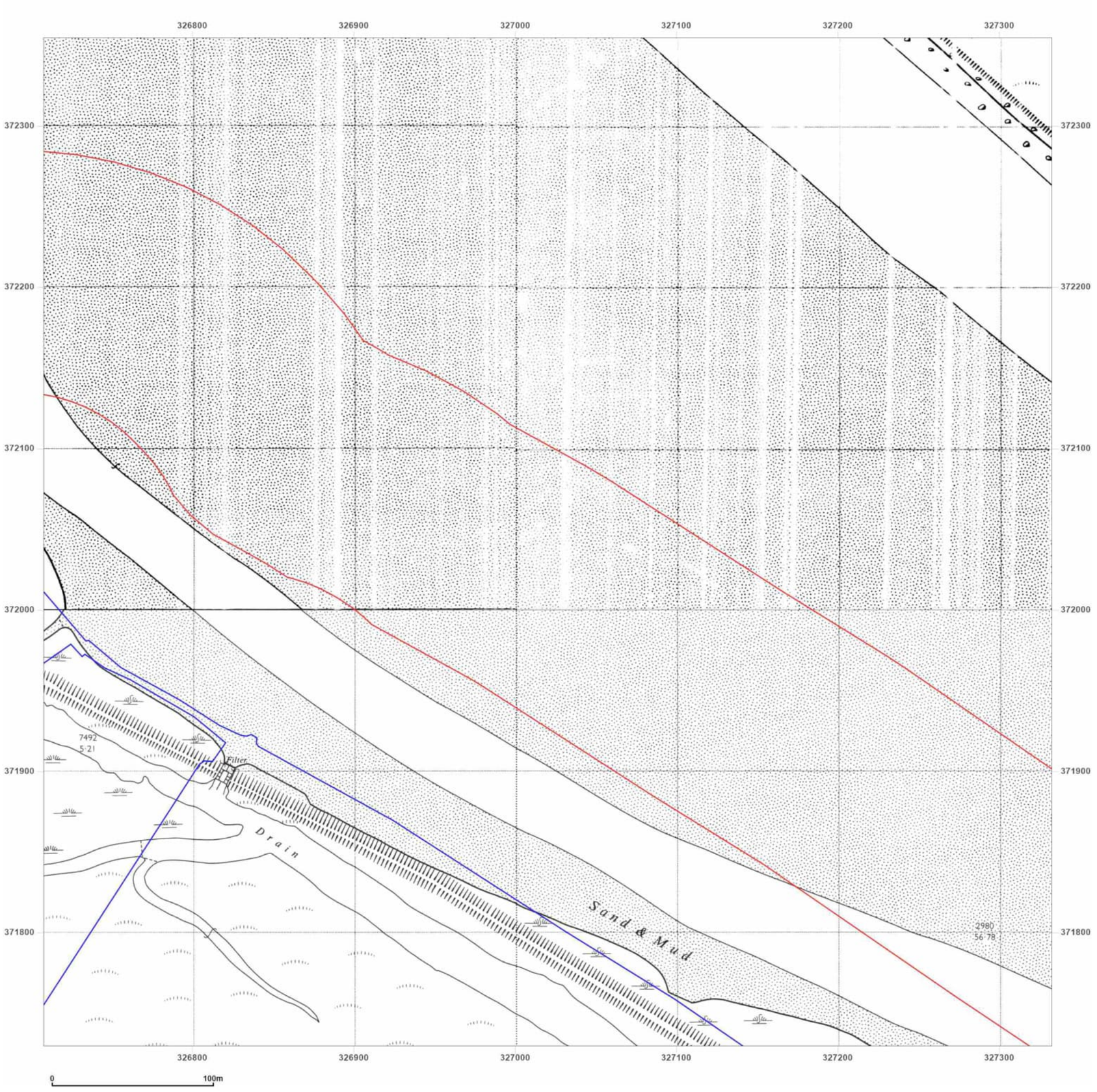
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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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

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

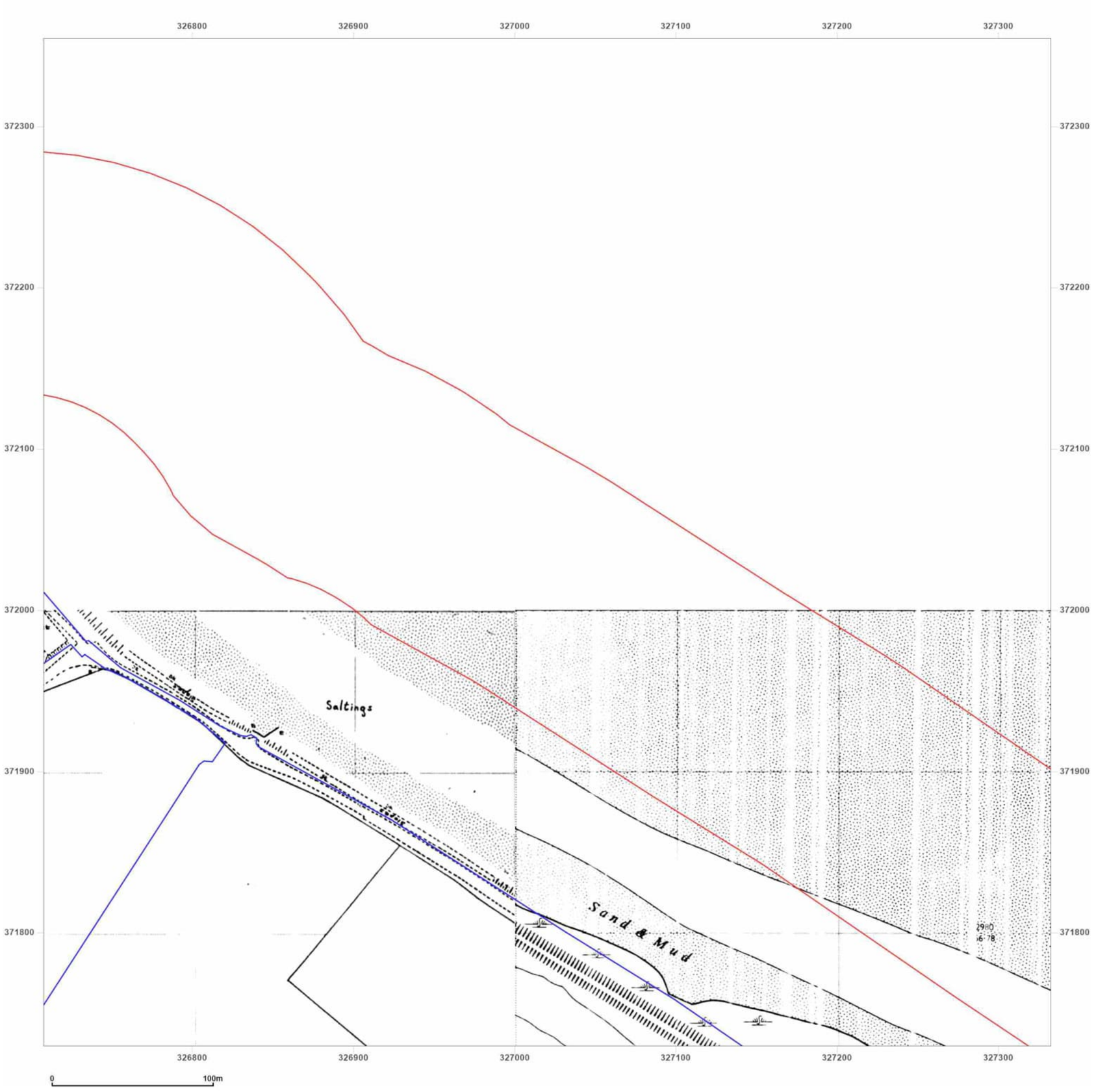
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

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Report Ref: GSIP-2023-13855-17626_LS_4_4
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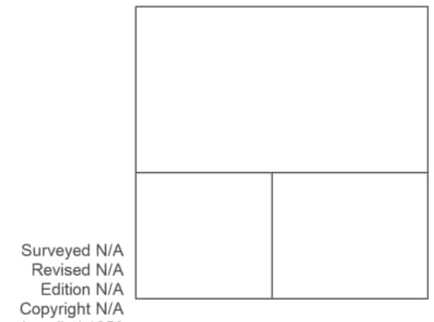
Map Name: National Grid

Map date: **1959-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



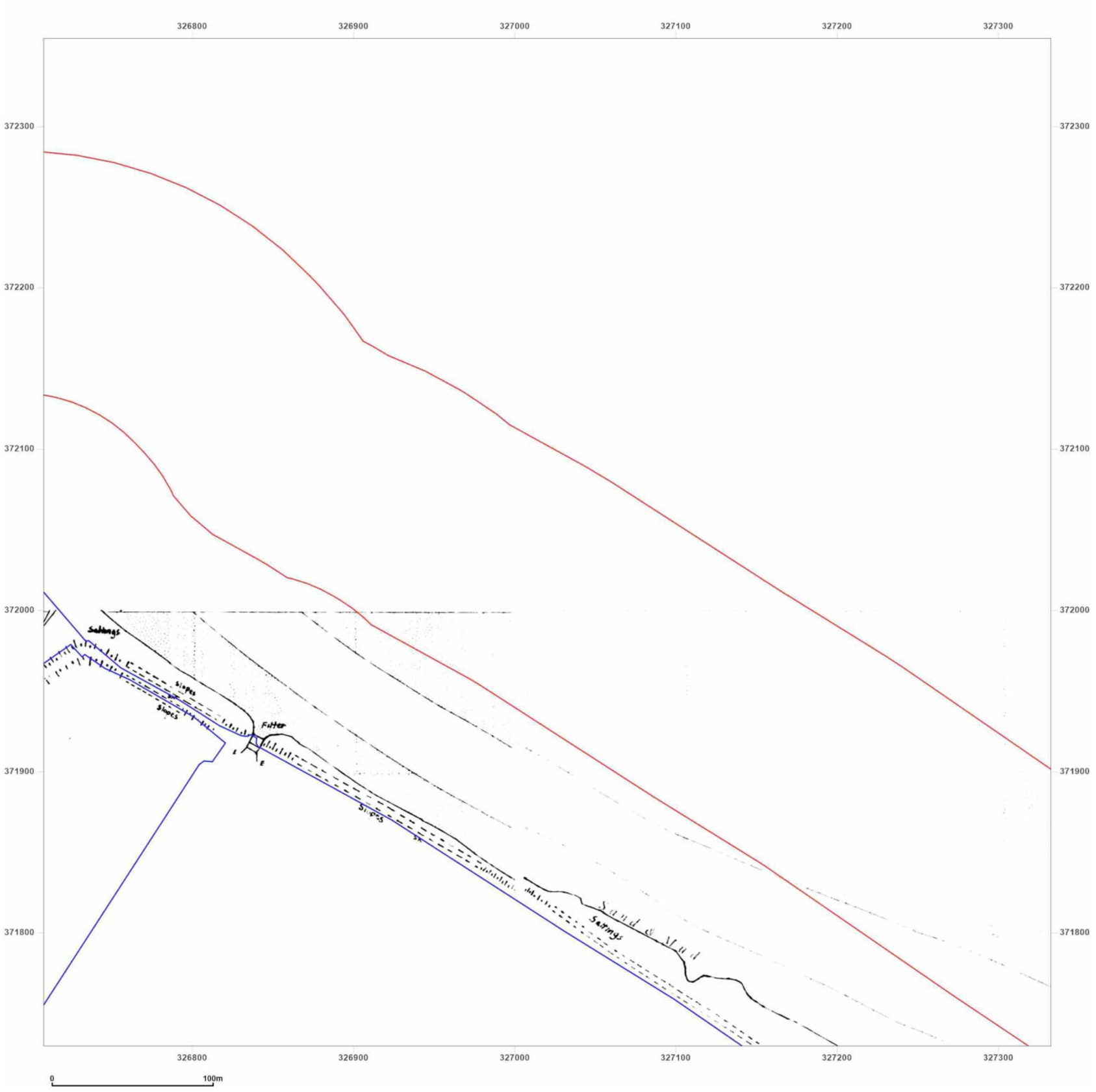
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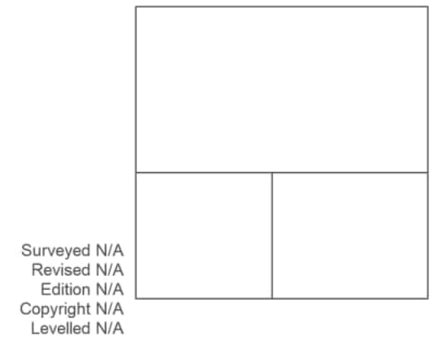
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: 1973
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



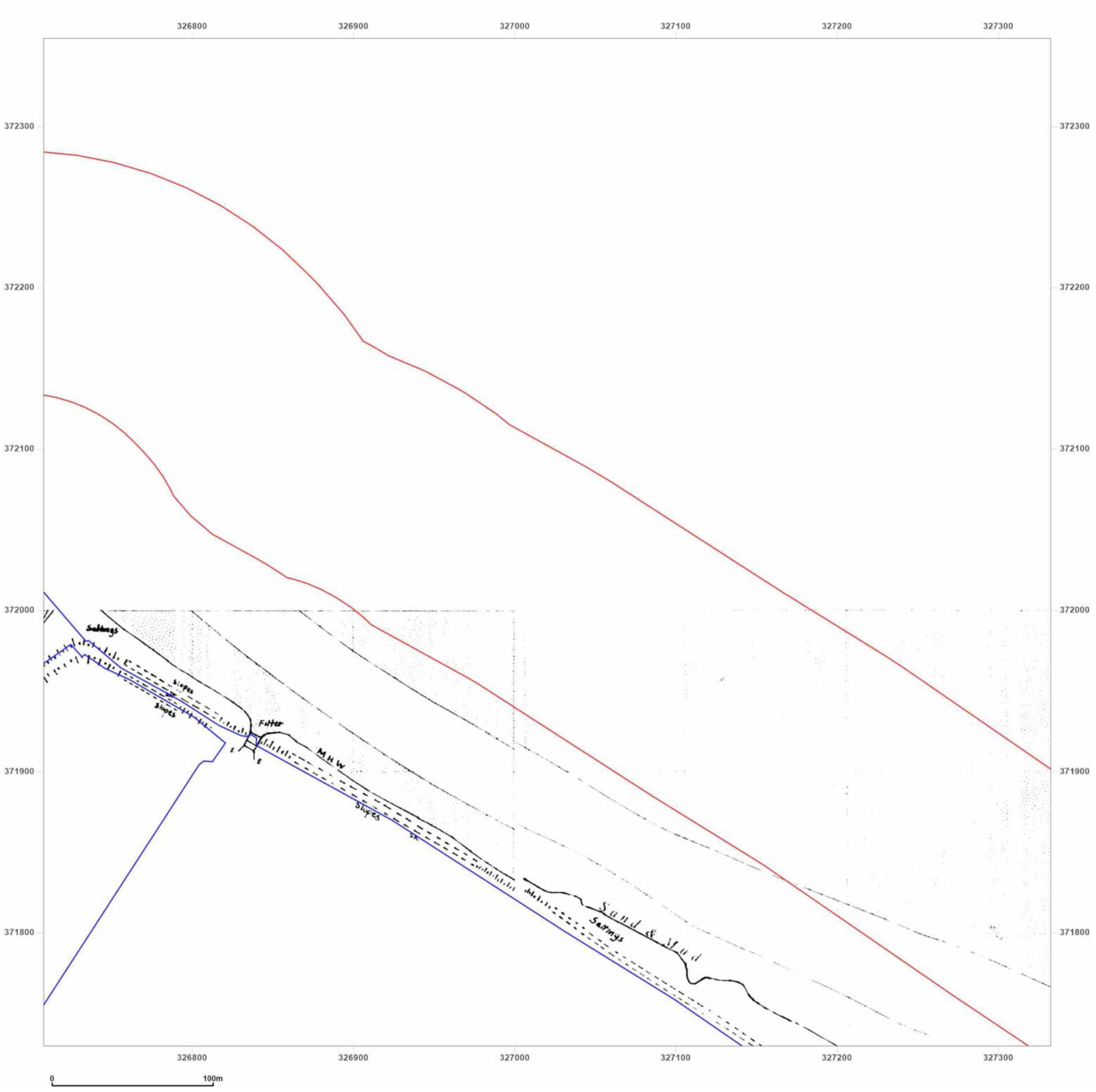
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: **1977**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

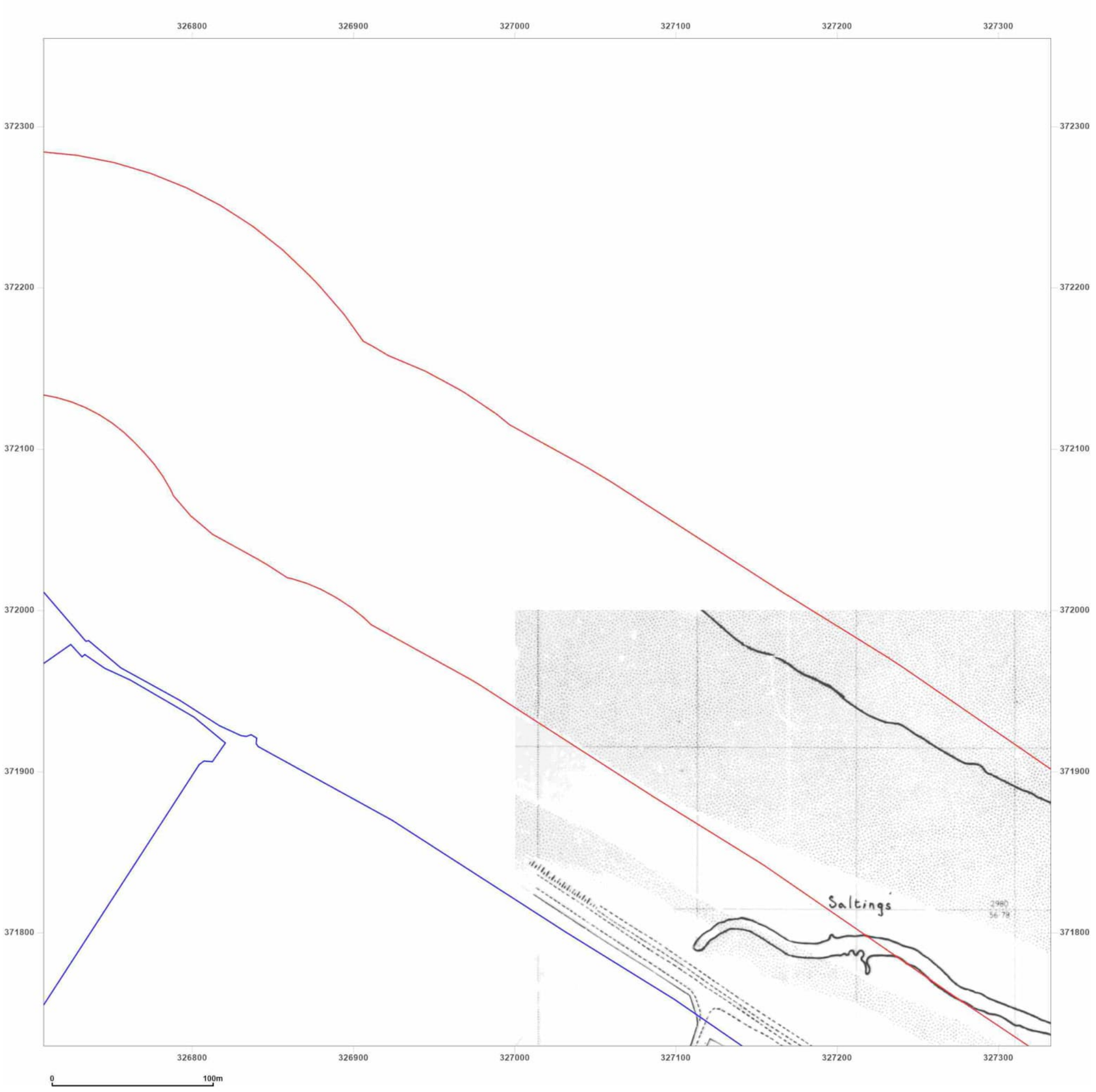
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: 1979
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

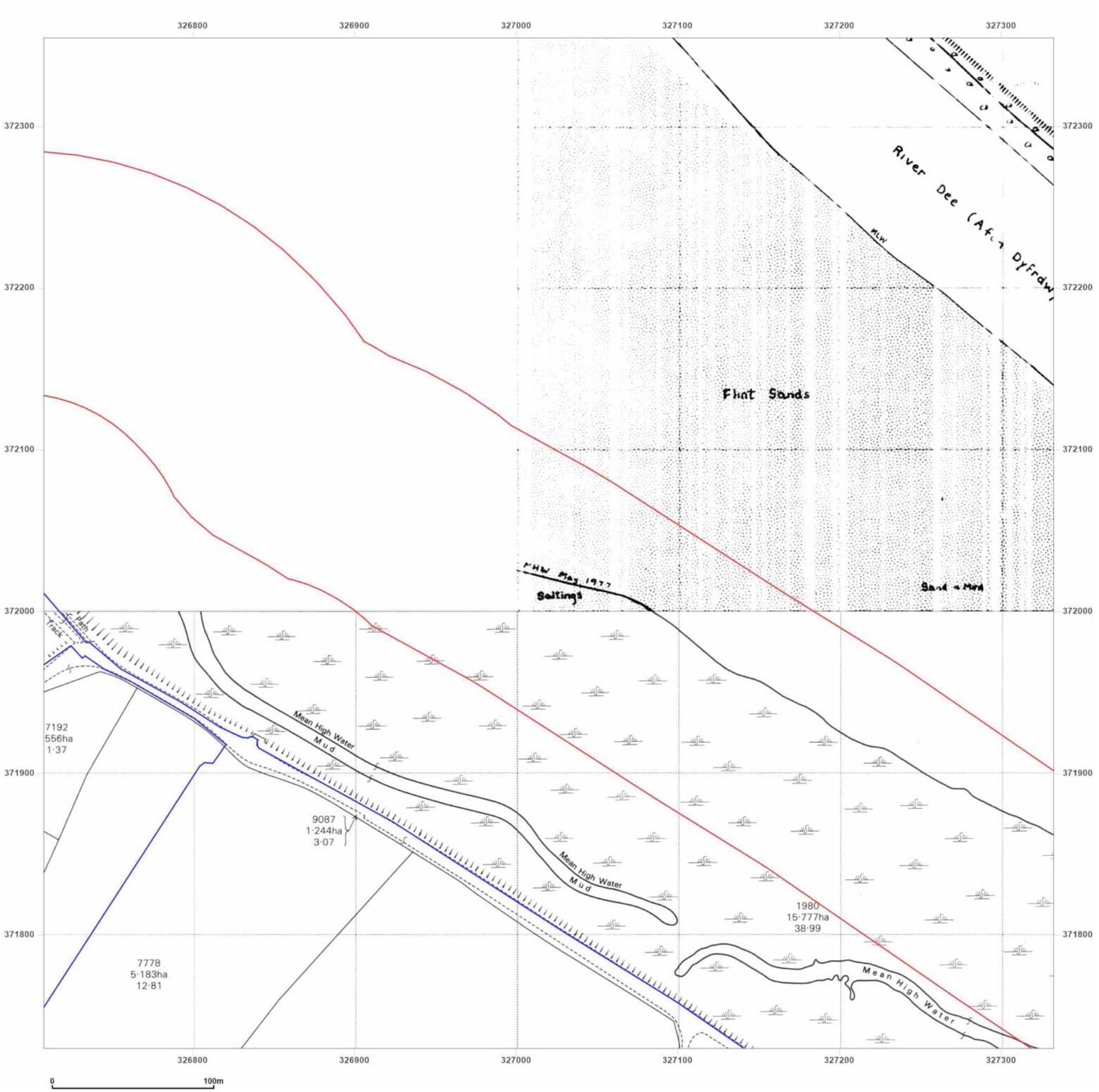
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: **1986-1990**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

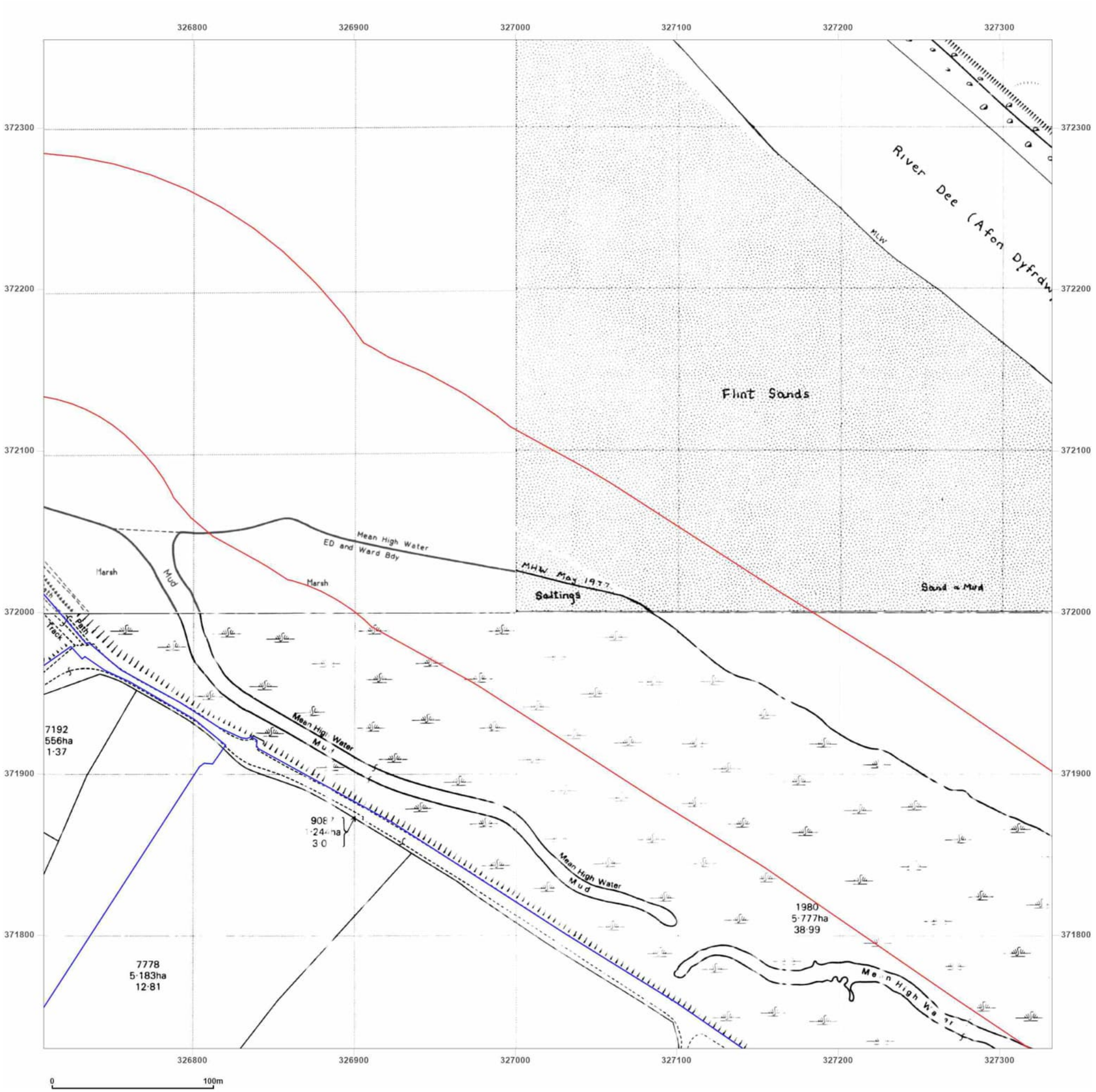
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1993 Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1990 Revised 1990 Edition N/A Copyright 1990 Levelled N/A
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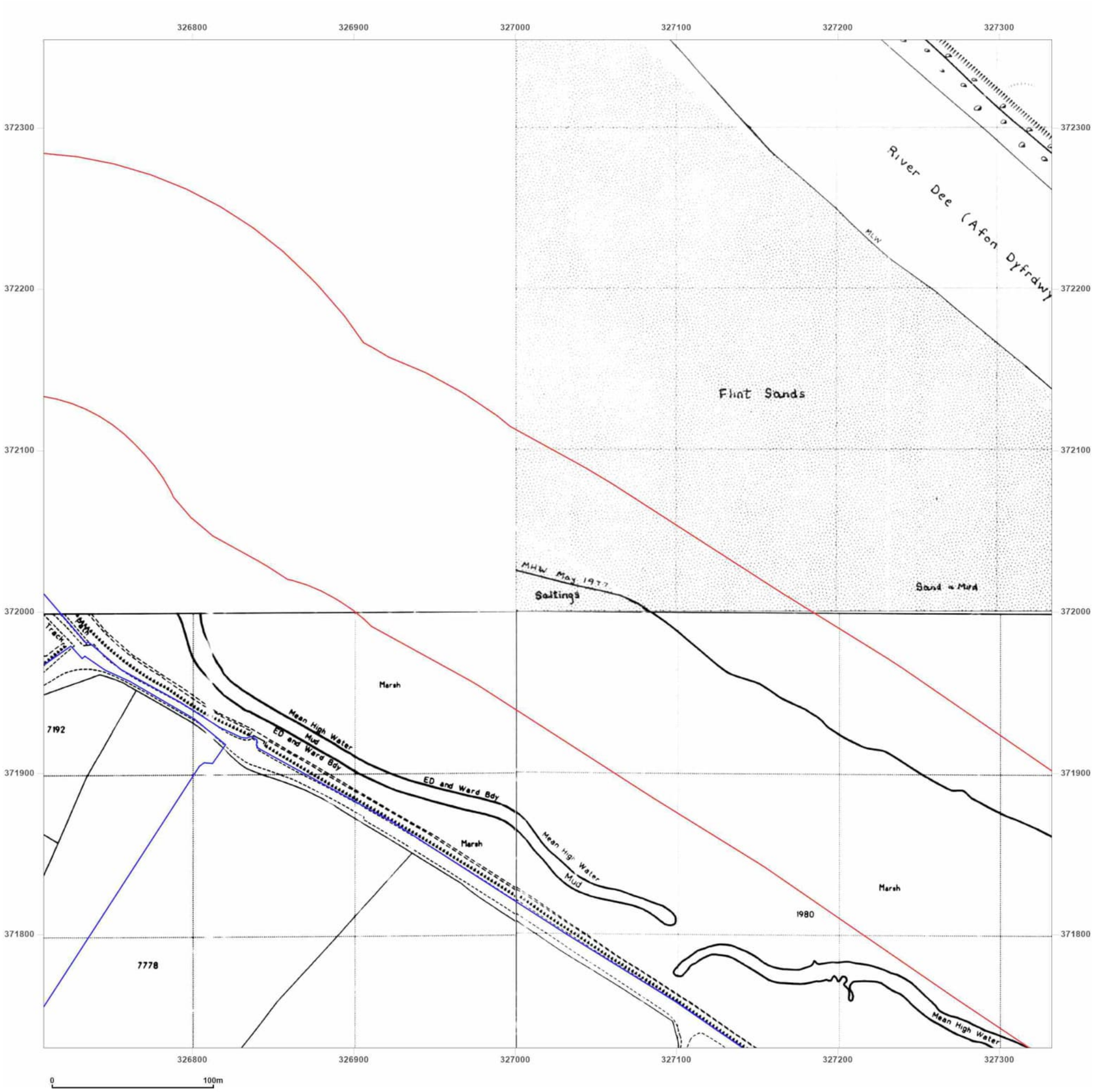
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: **1990-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

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

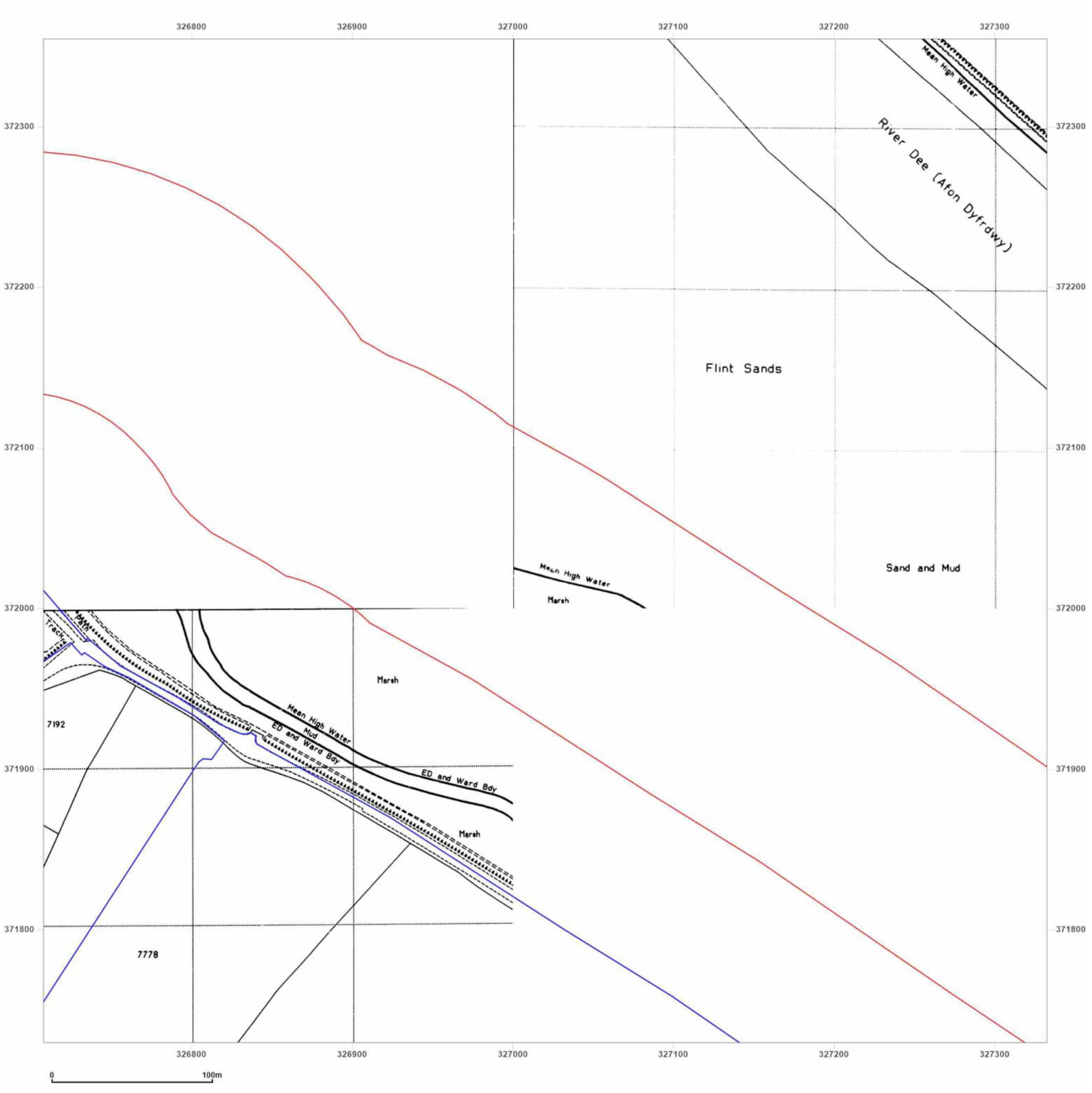
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_4_4
Grid Ref: 327020, 372042

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

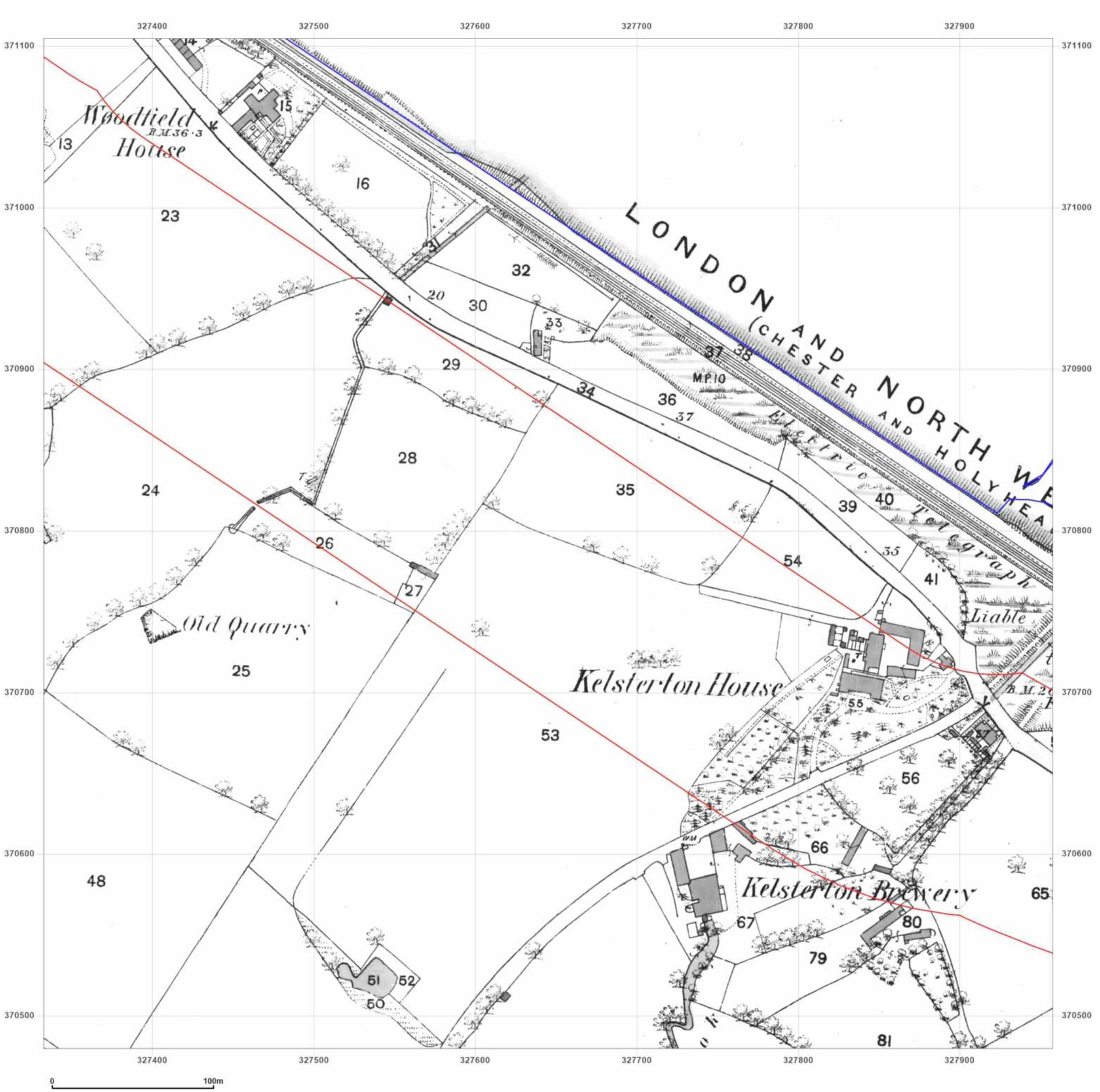
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: County Series
Map date: **1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

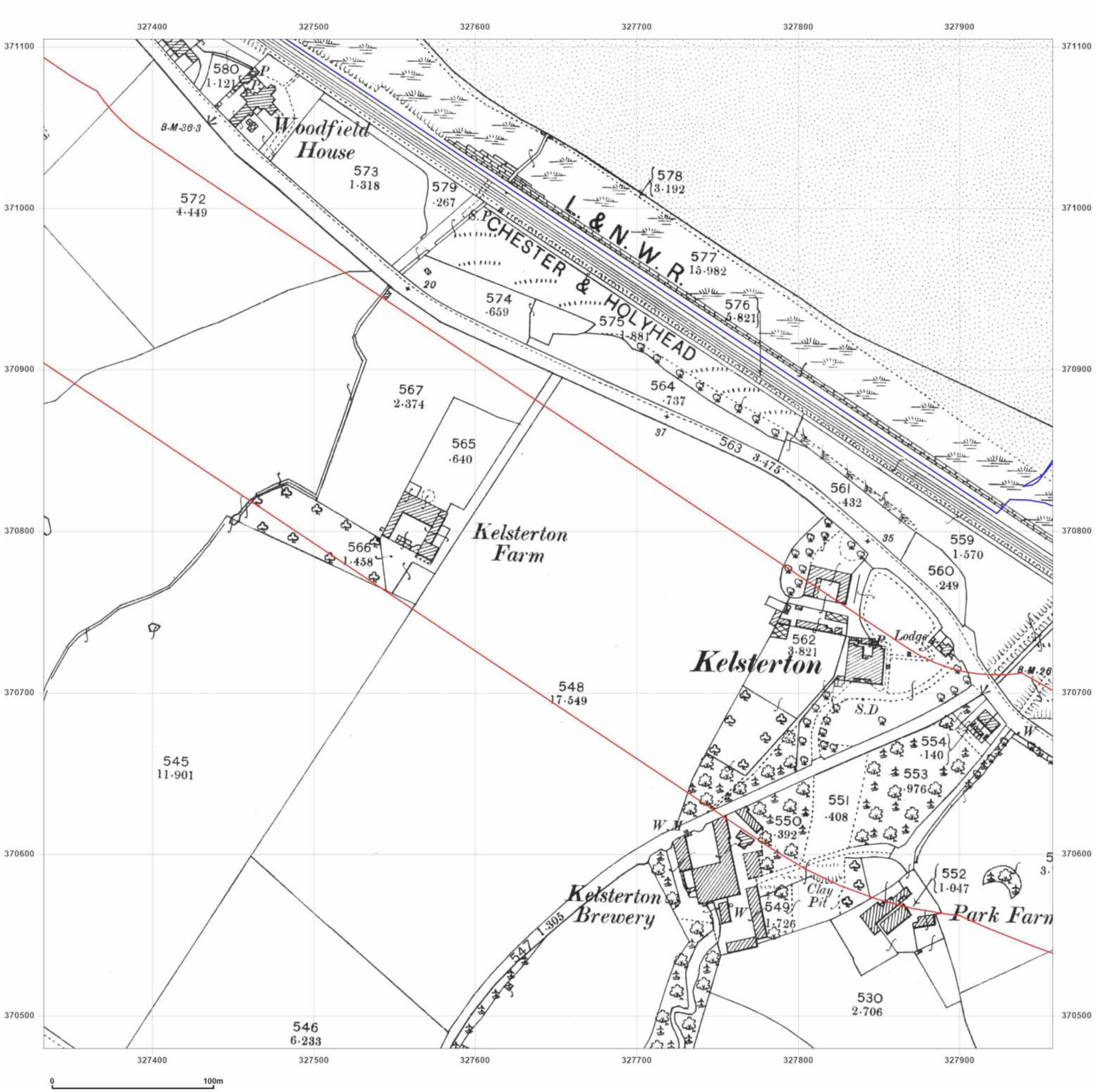
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

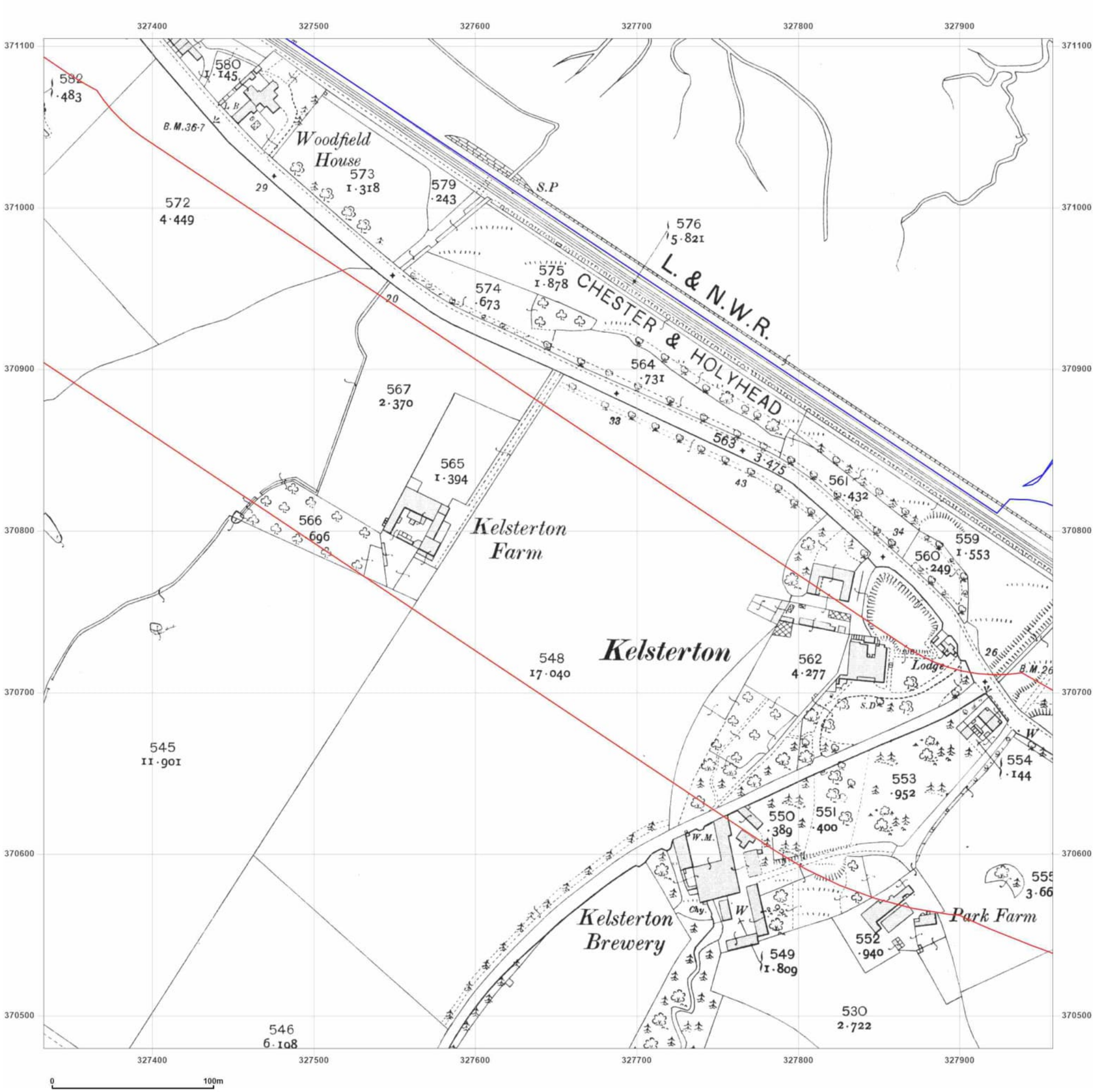
Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: National Grid

Map date: **1962-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

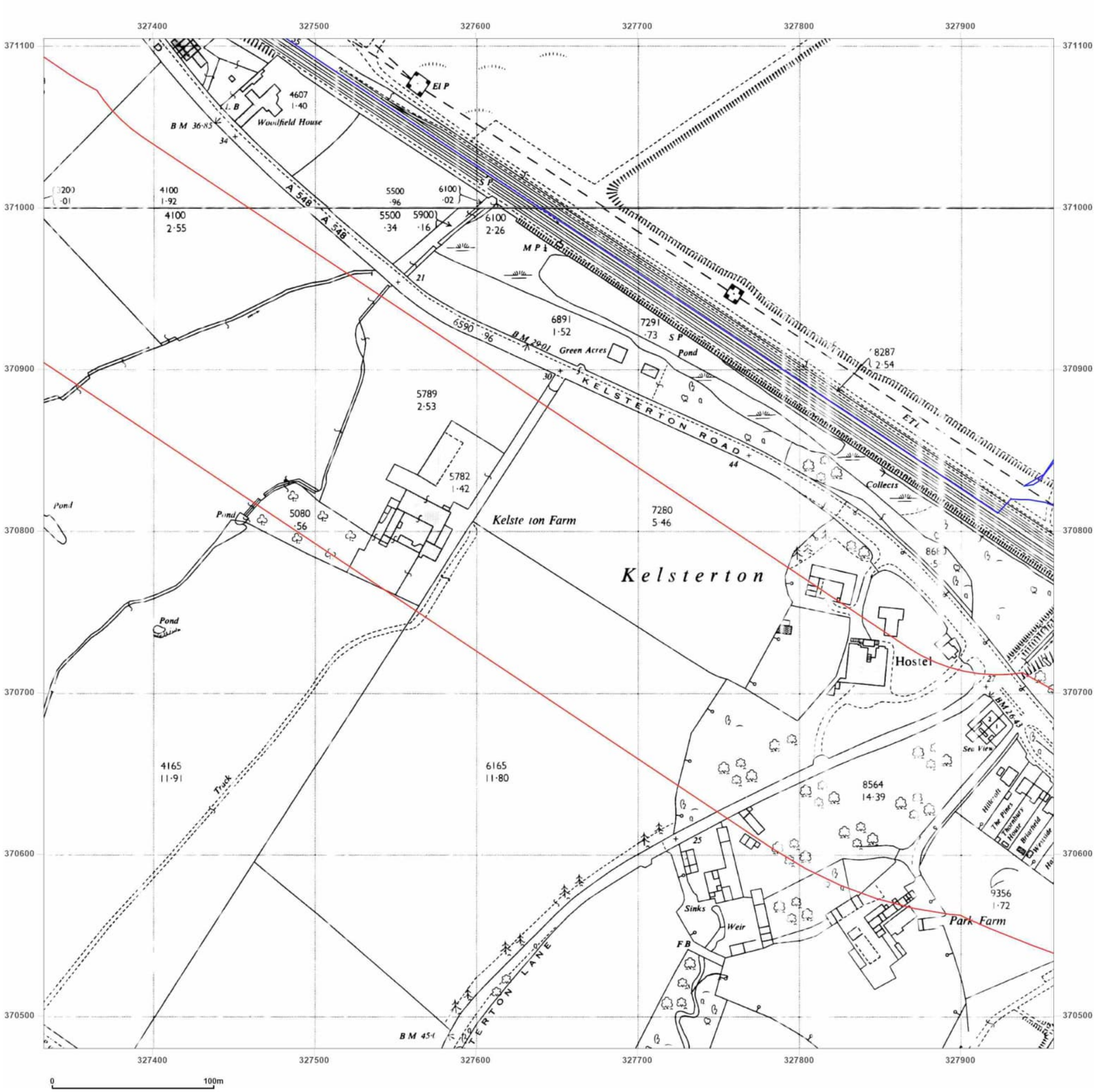
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: National Grid

Map date: **1964-1967**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

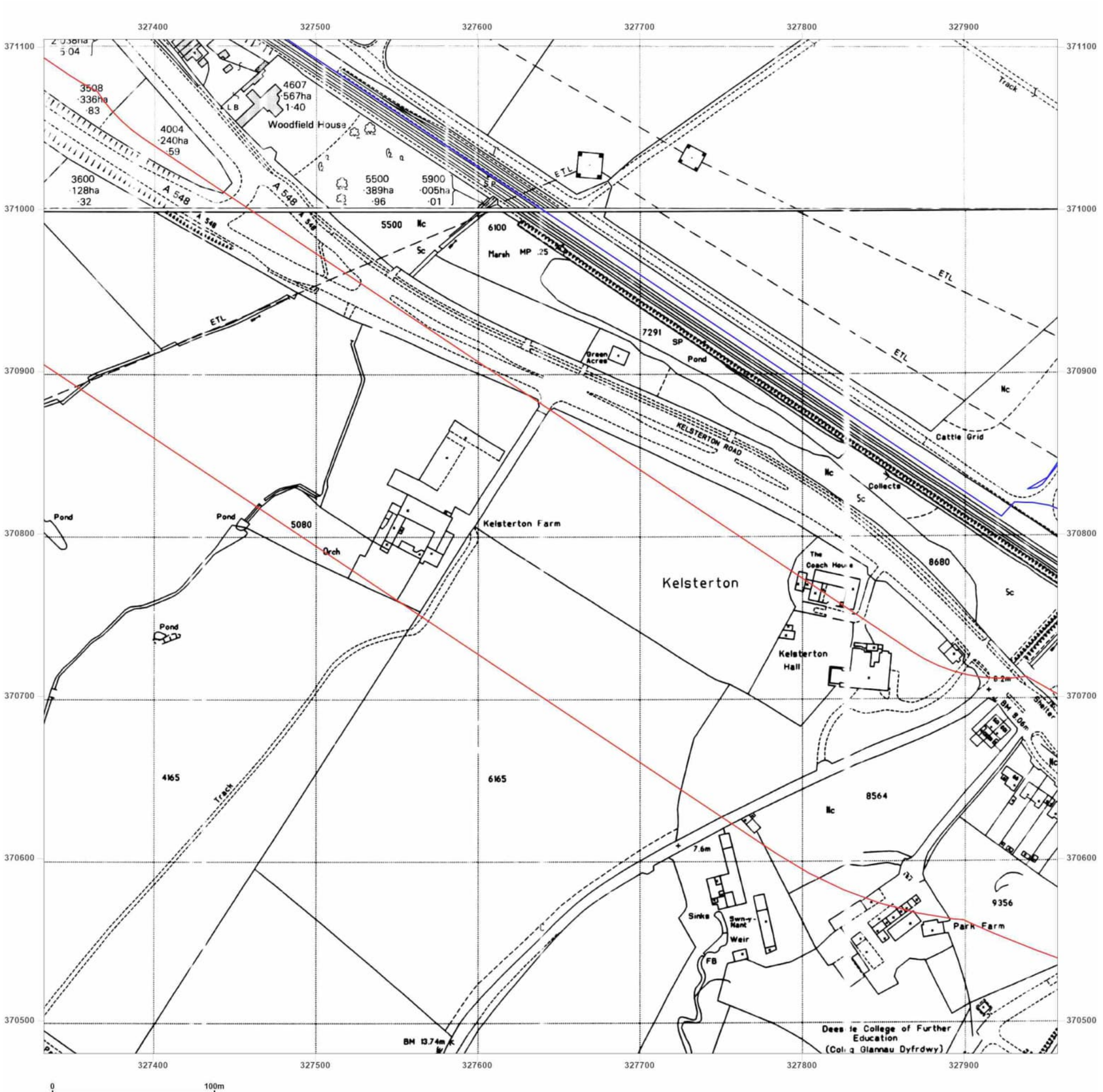
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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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 1993
Levelled N/A

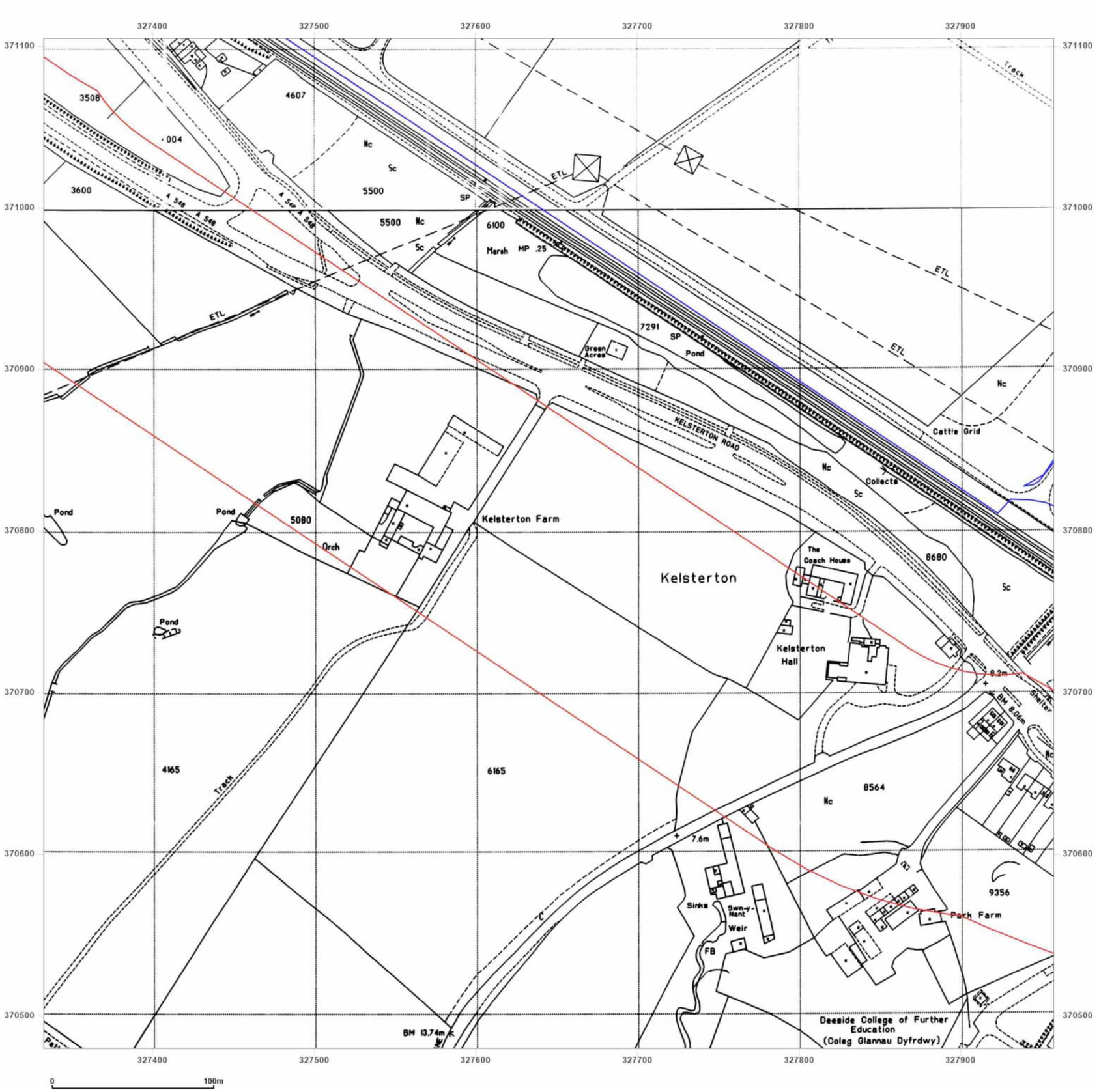
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_2
Grid Ref: 327645, 370792

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

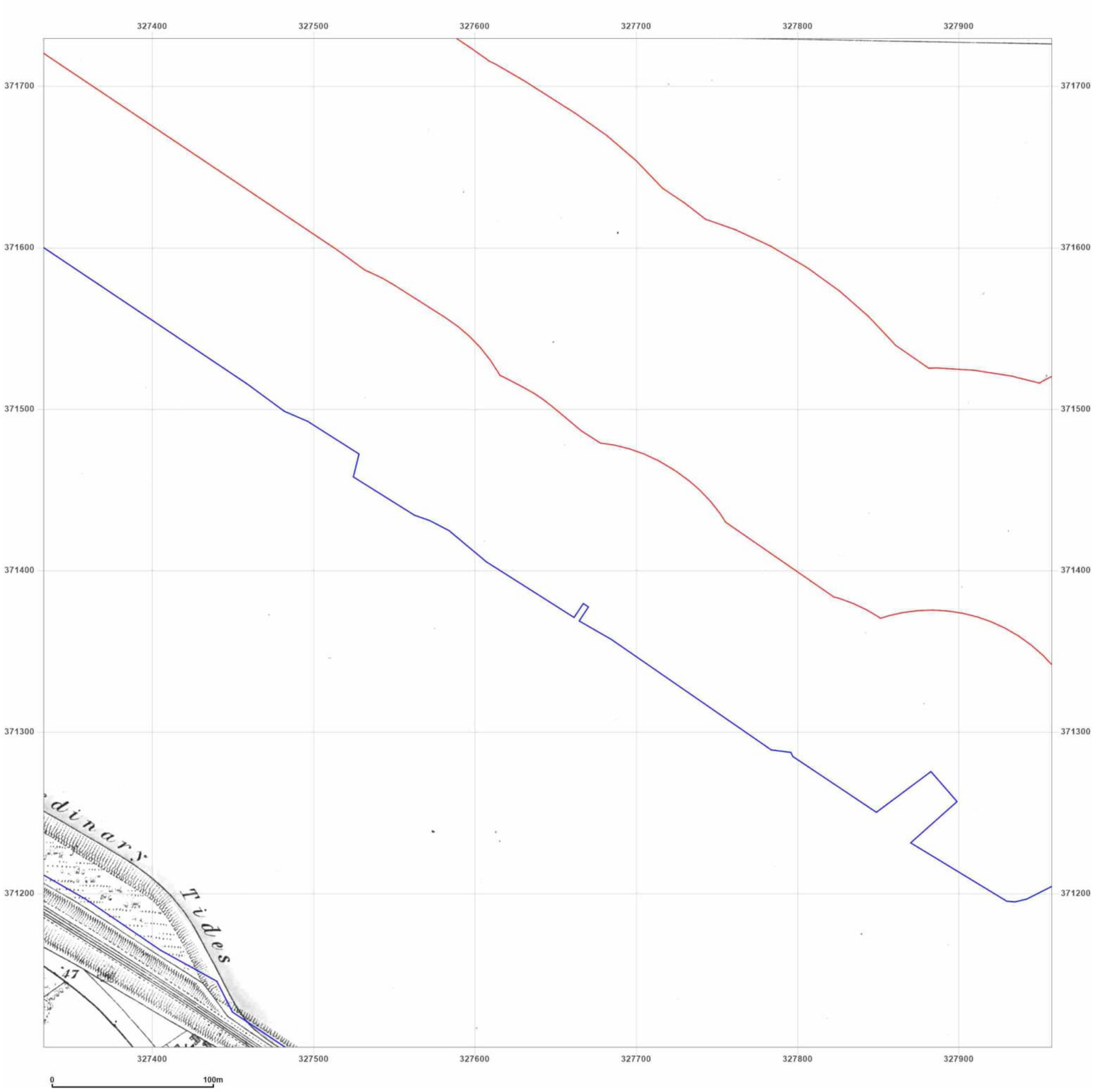
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

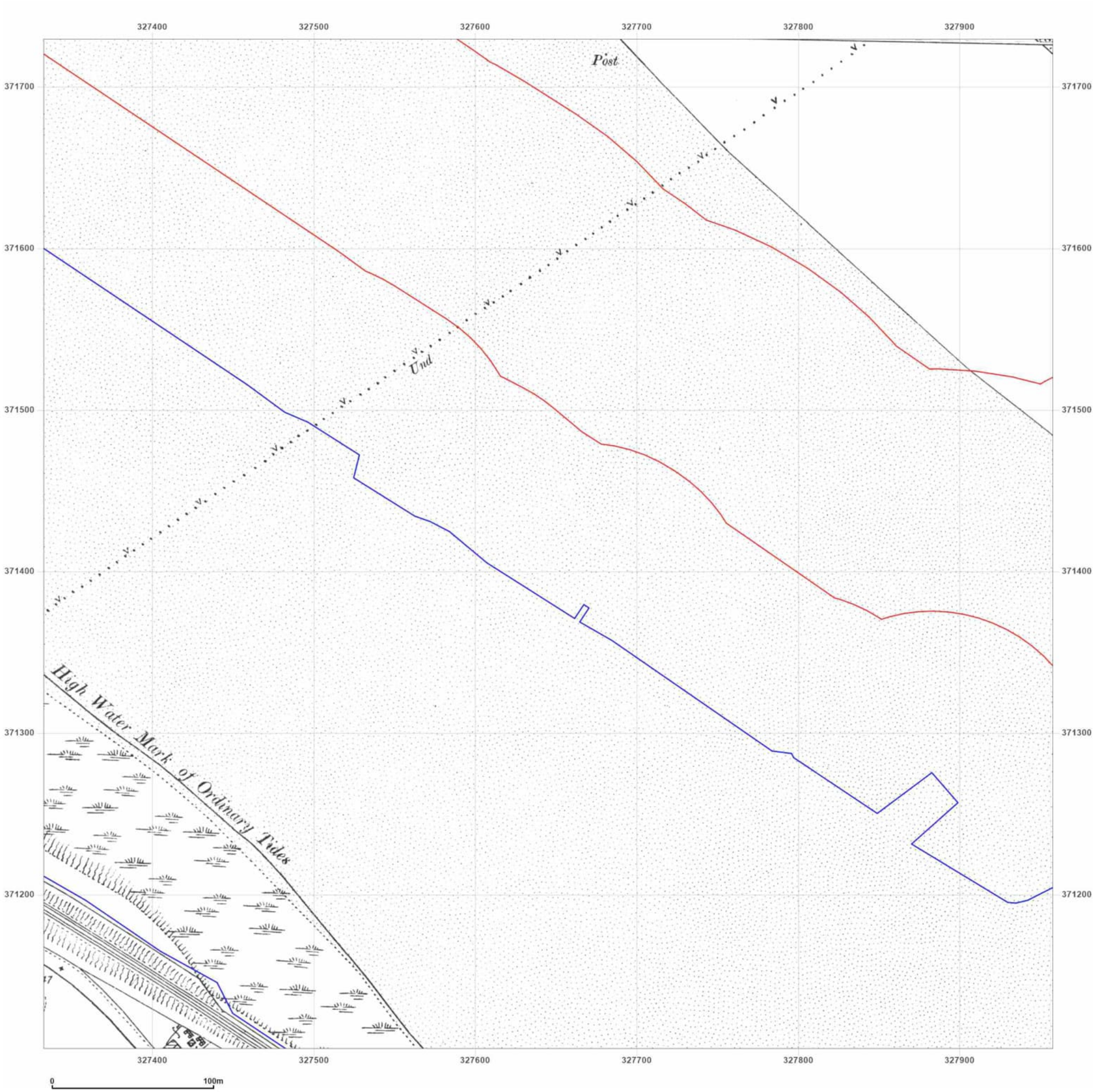
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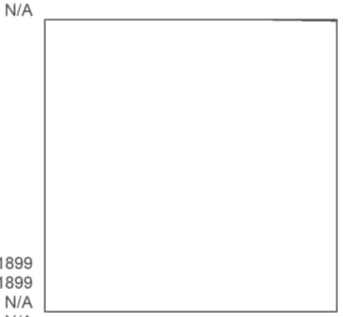
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: County Series
Map date: **1899**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

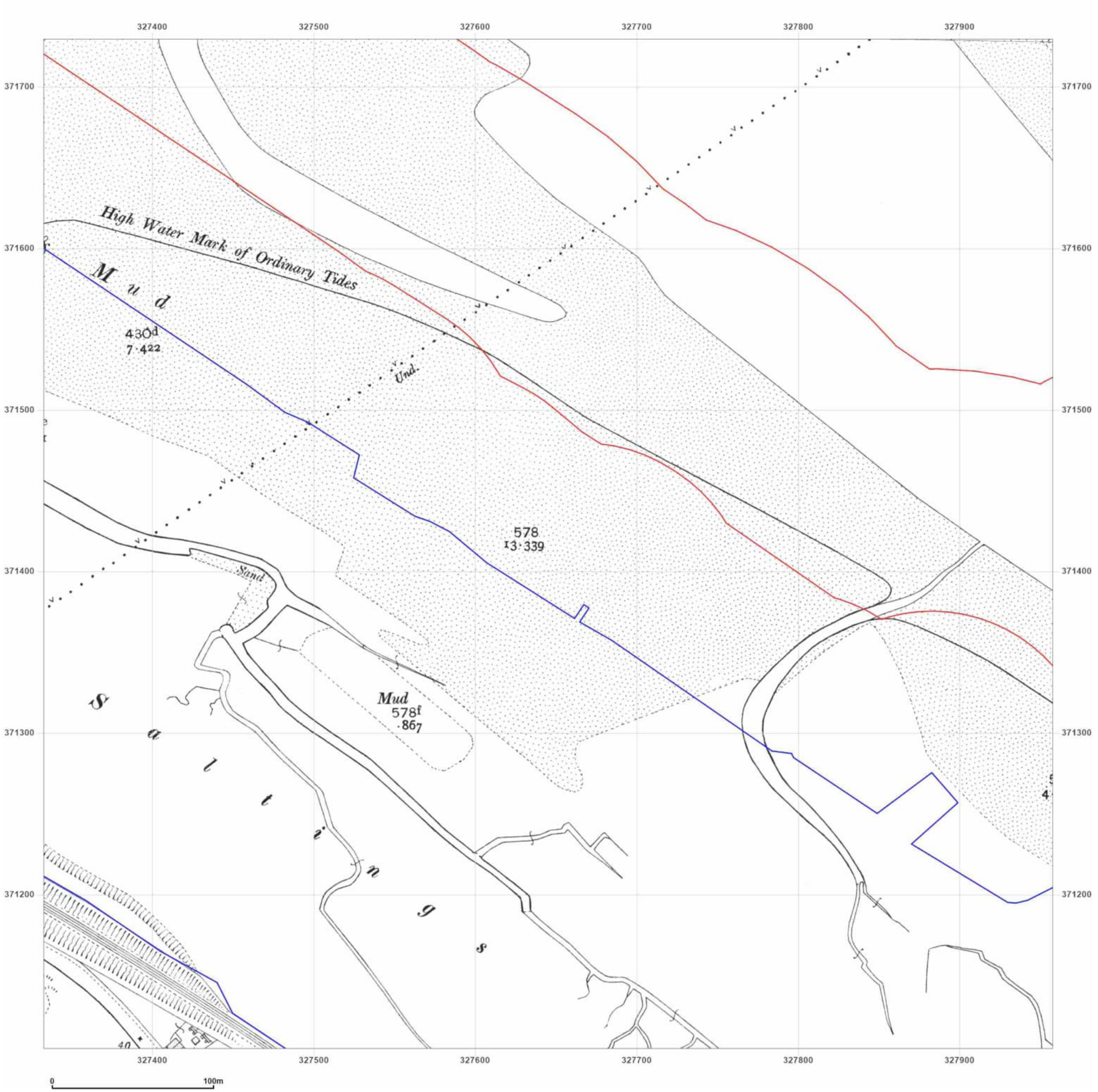
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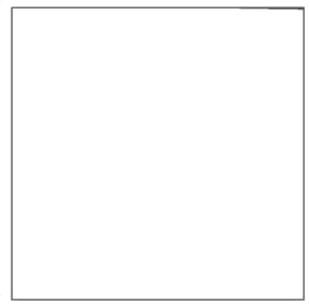
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

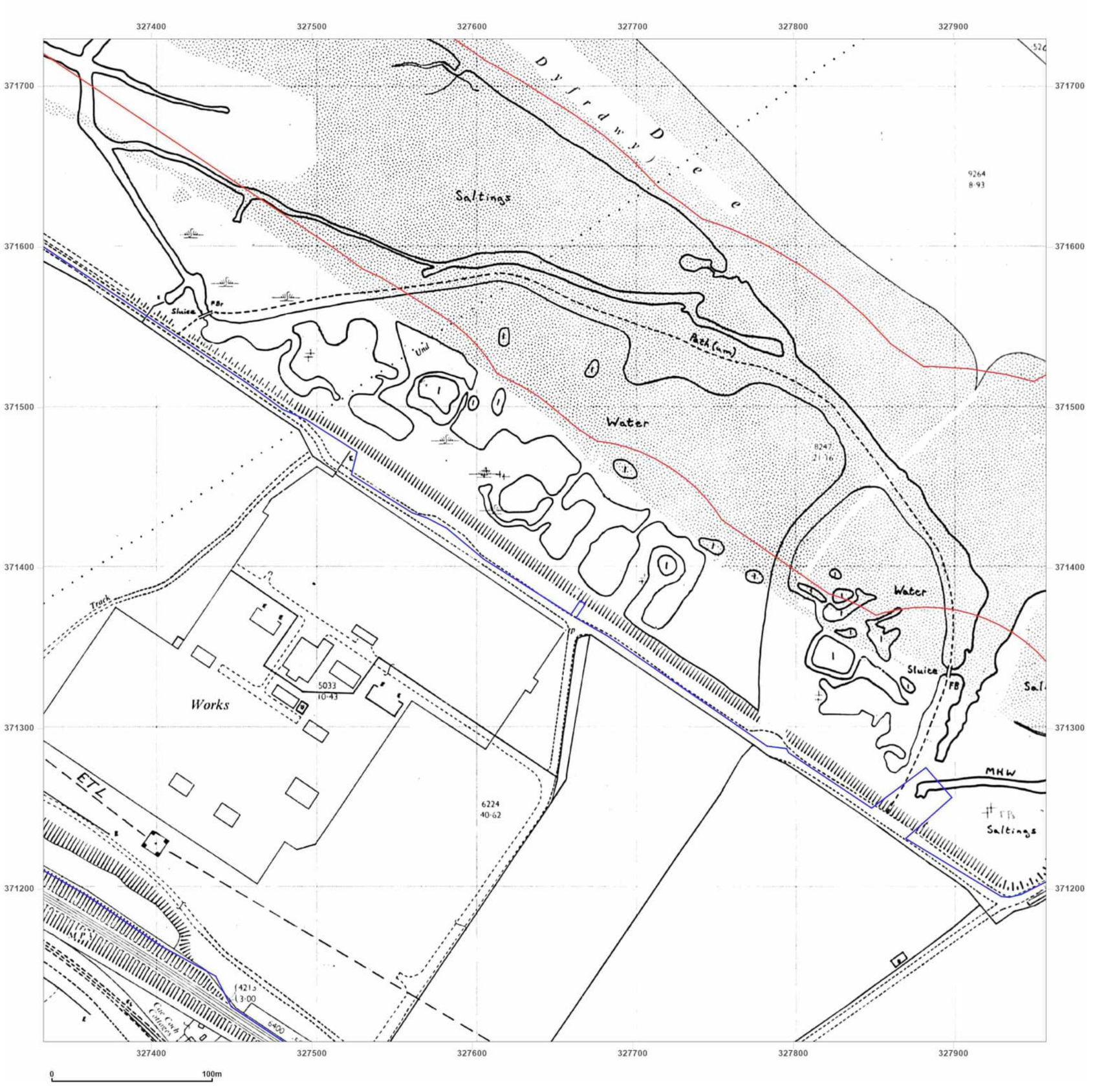
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: 1959
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1959

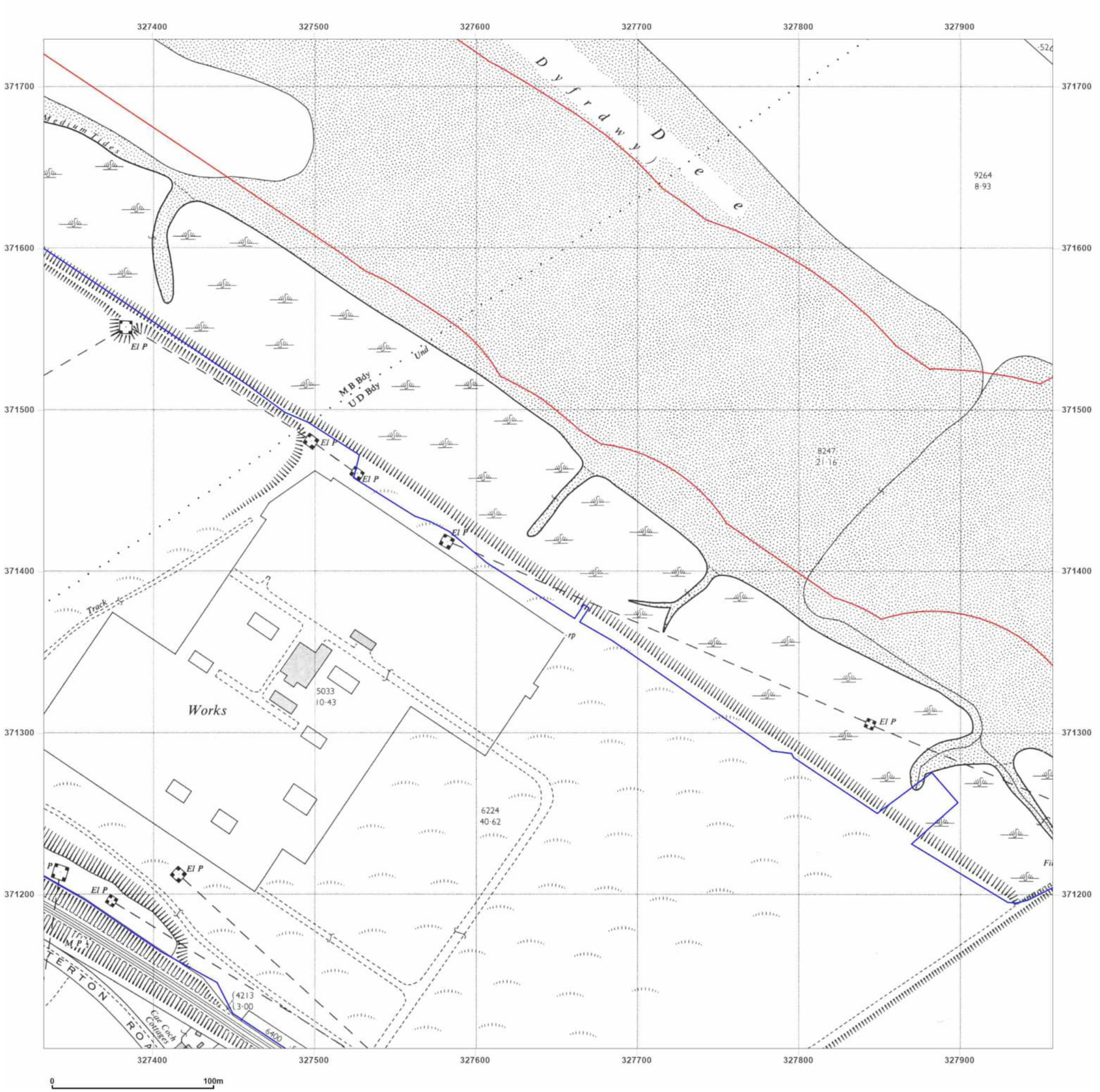
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: **1962**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

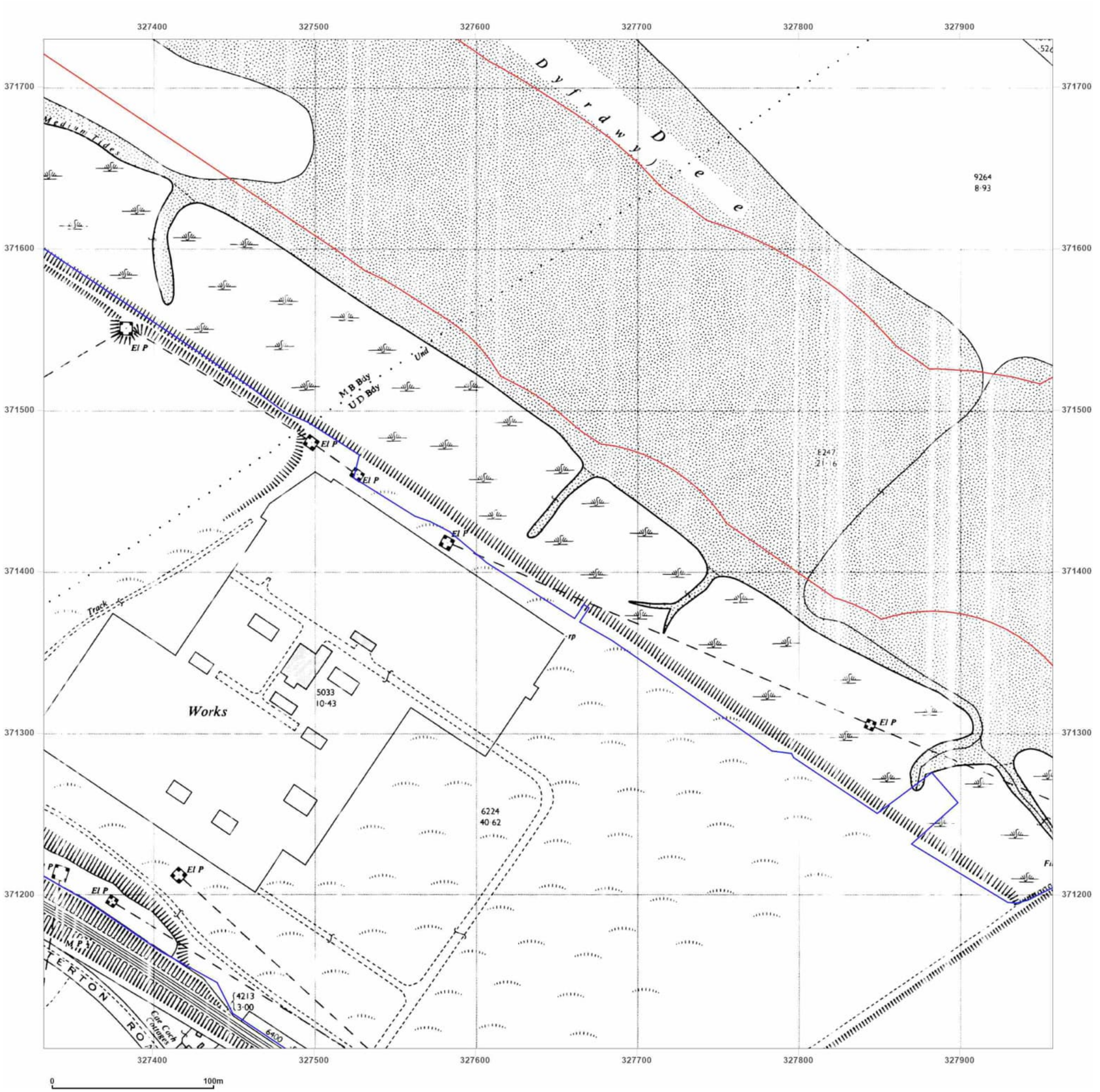
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

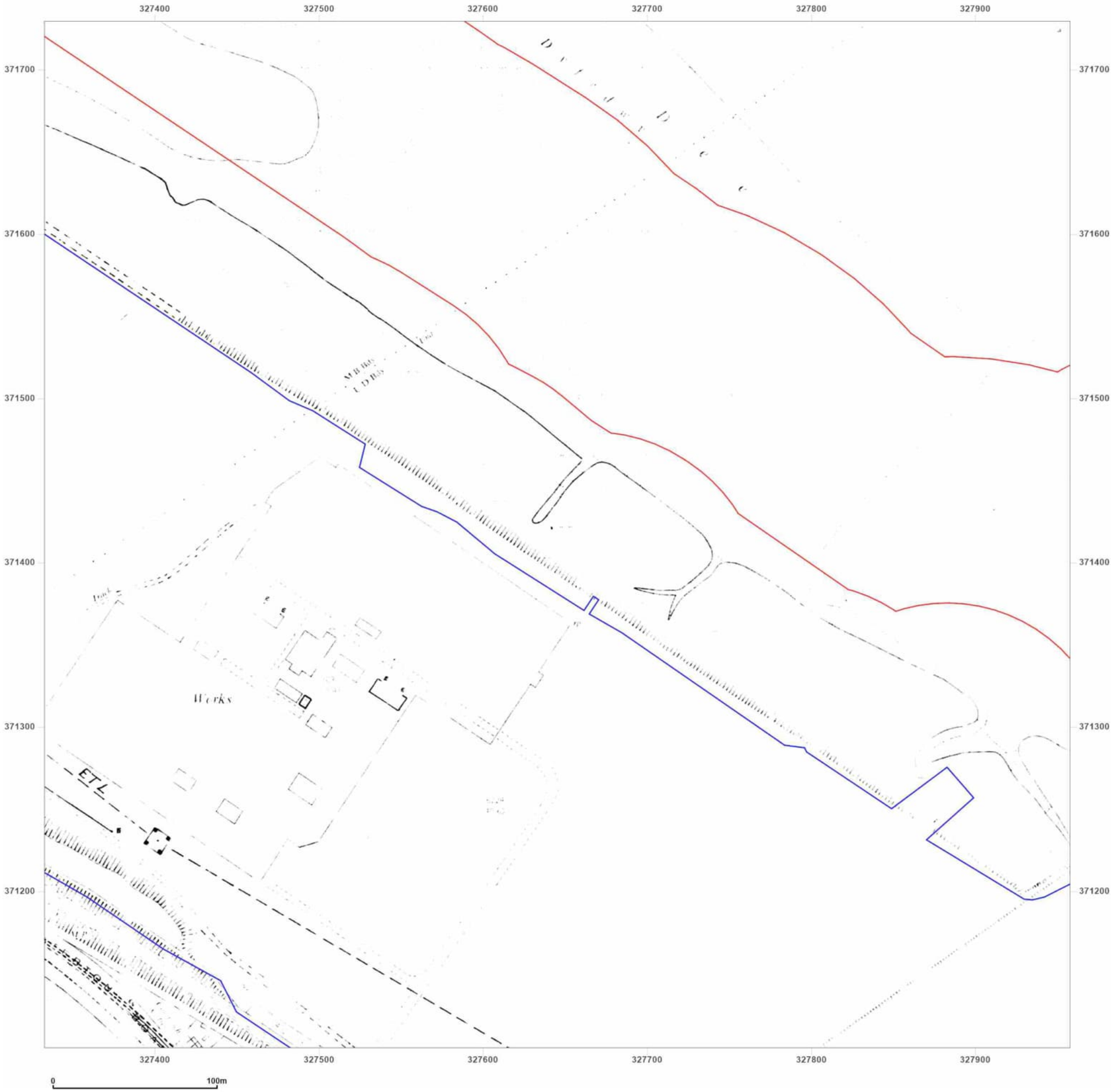
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: **1973**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

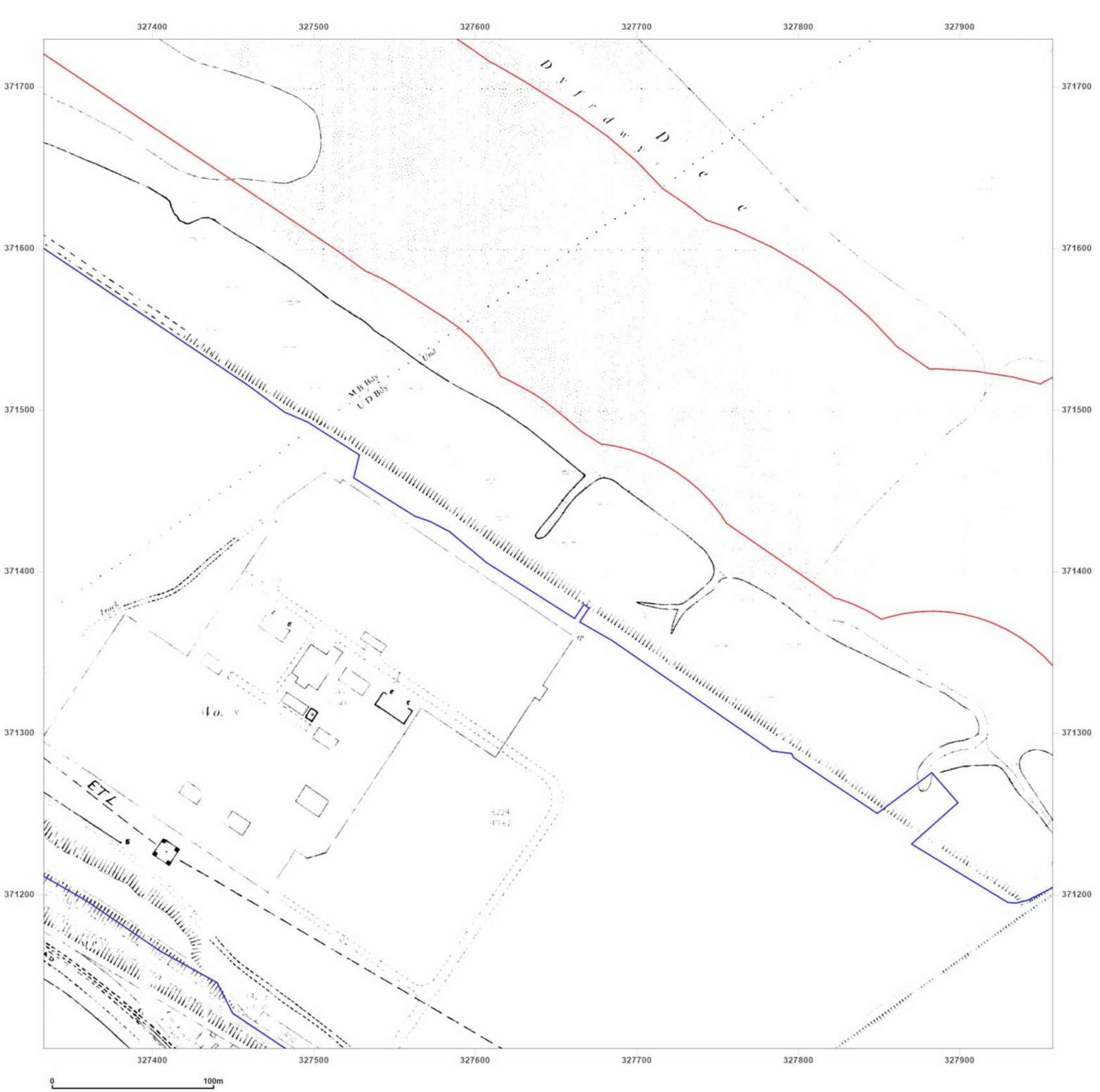
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: 1977
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: **1979**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: **1986**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

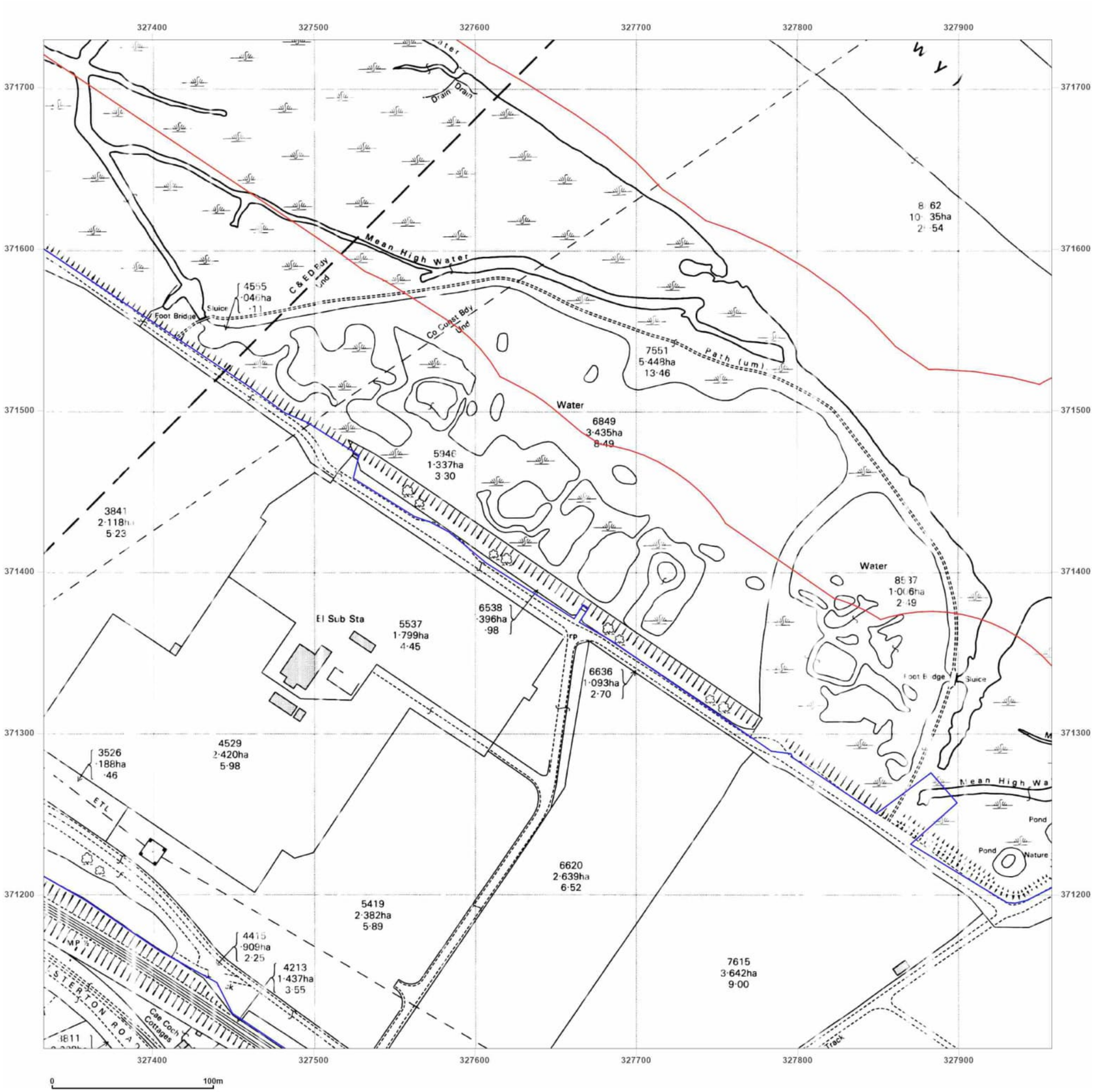
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: 1988
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

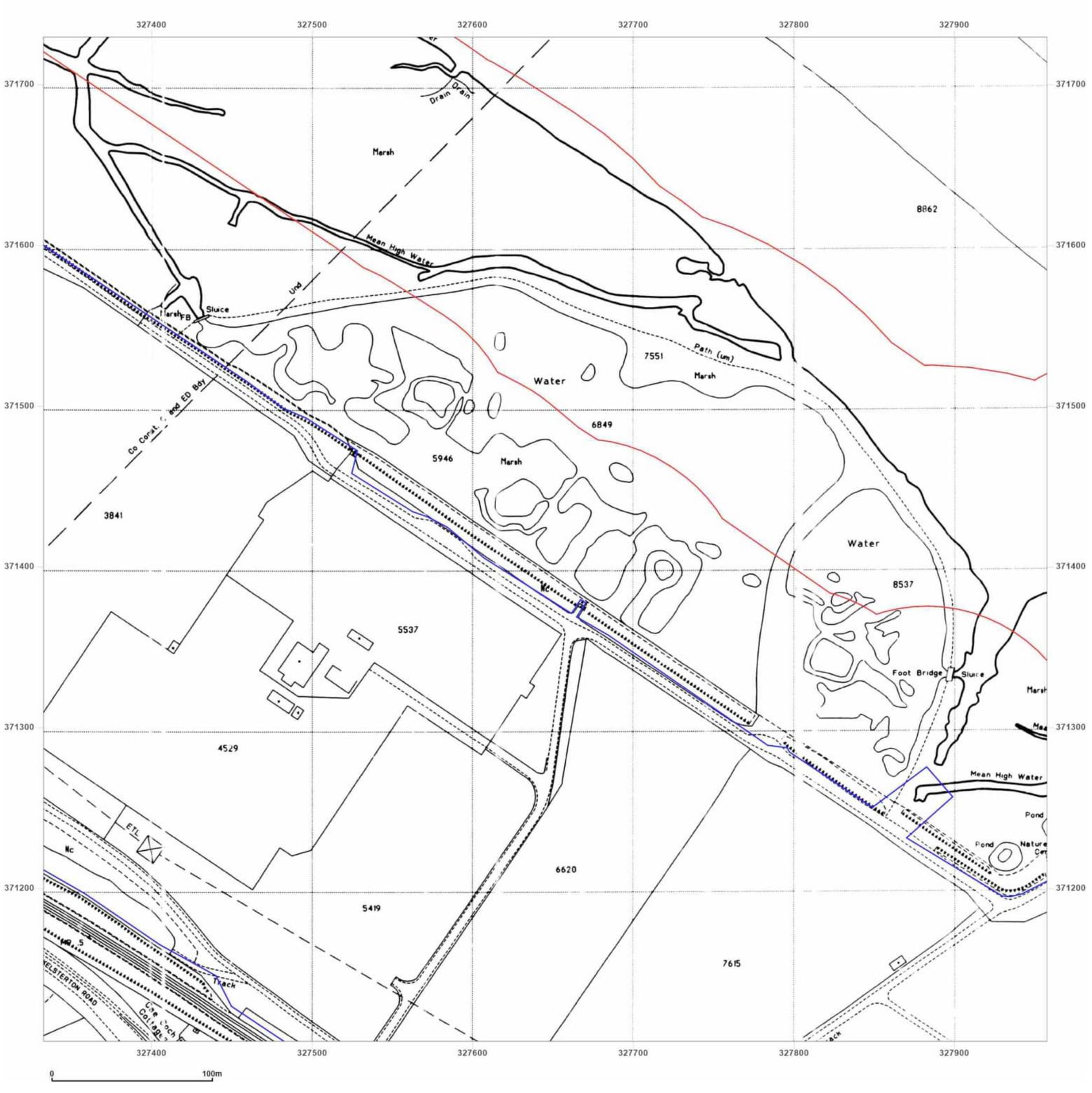
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_5_3
Grid Ref: 327645, 371417

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

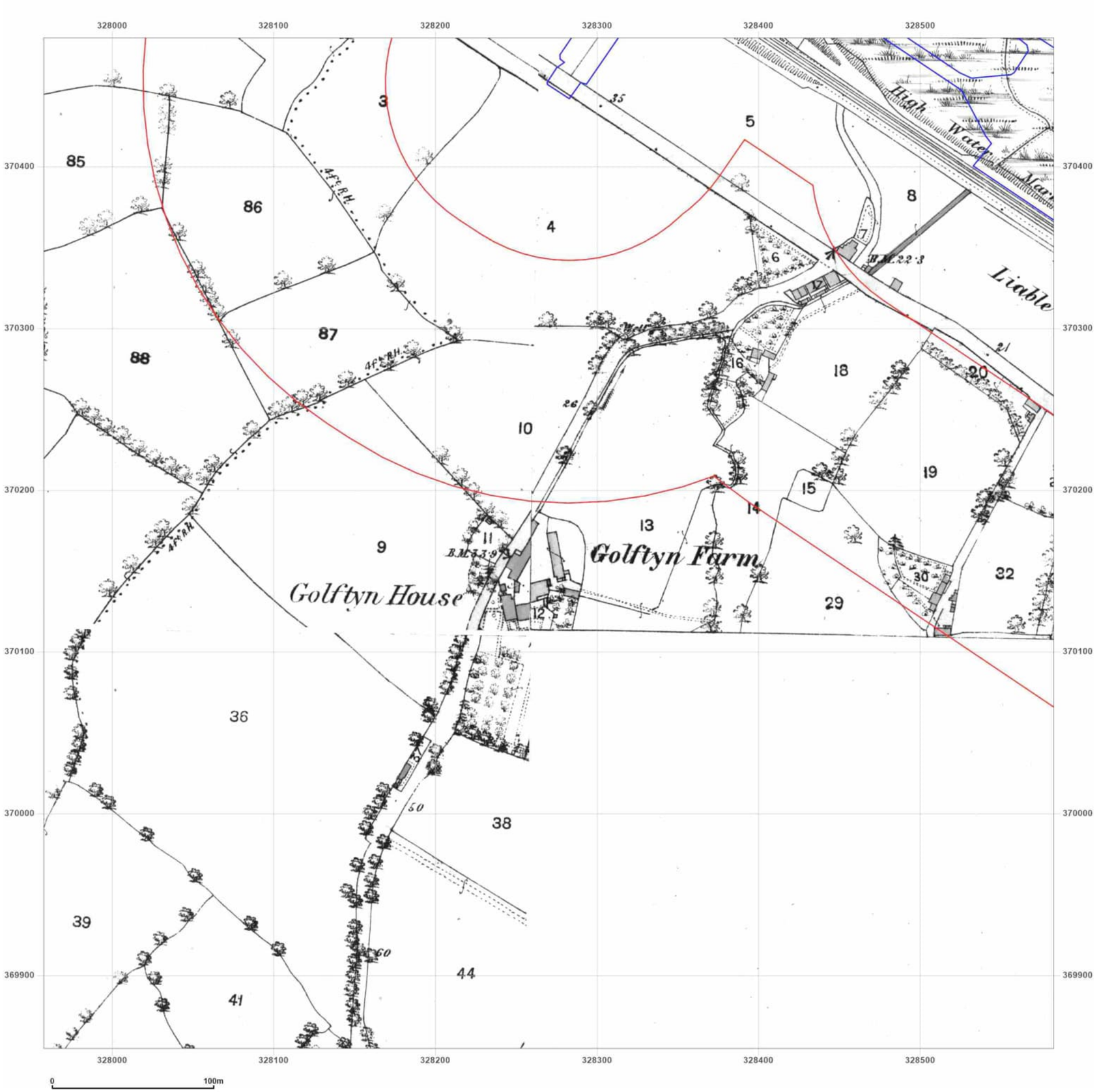
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

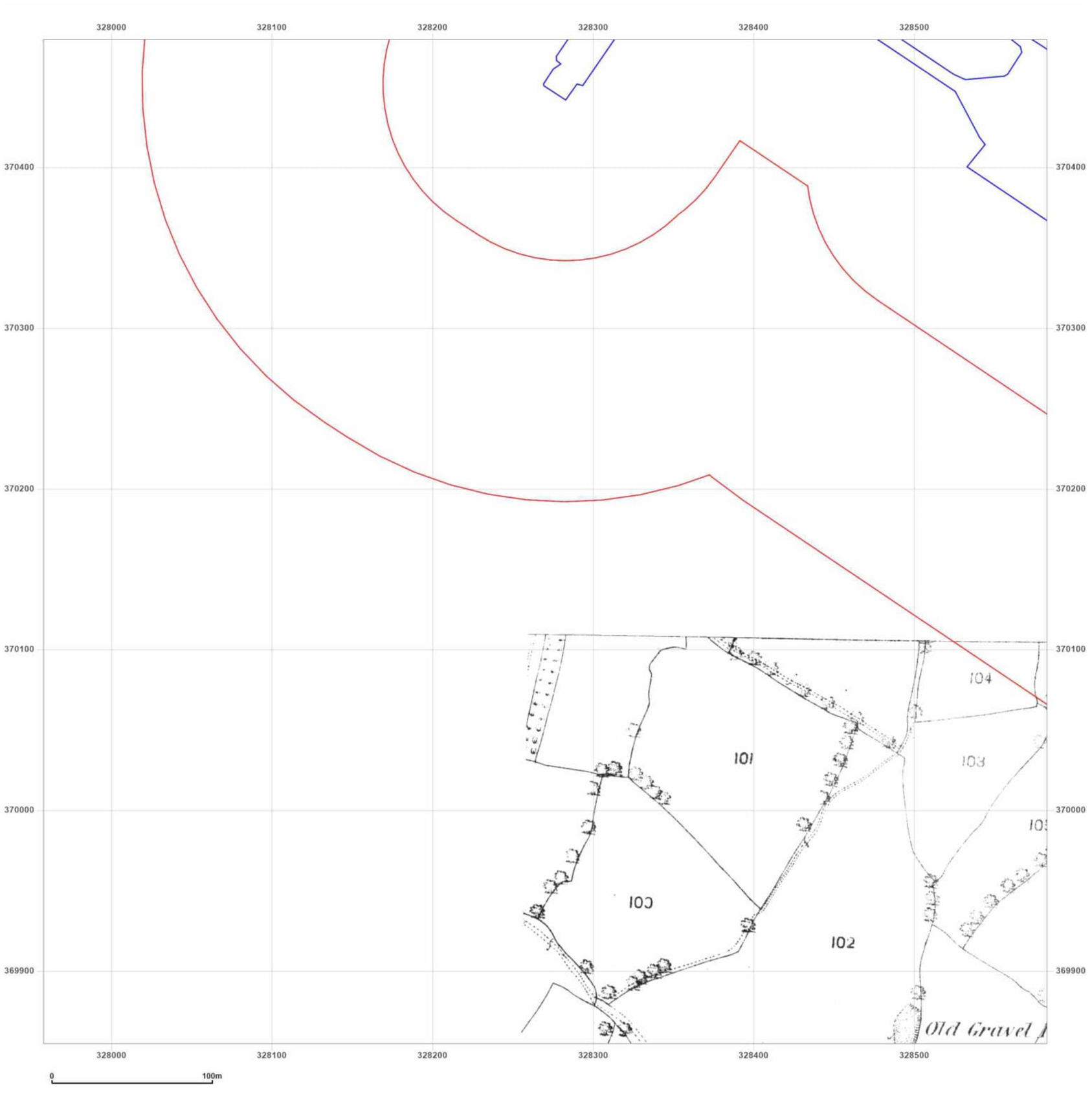
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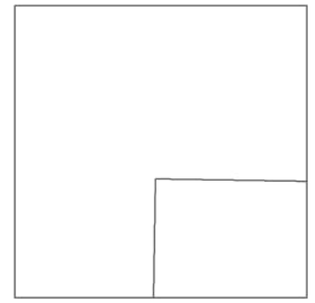
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

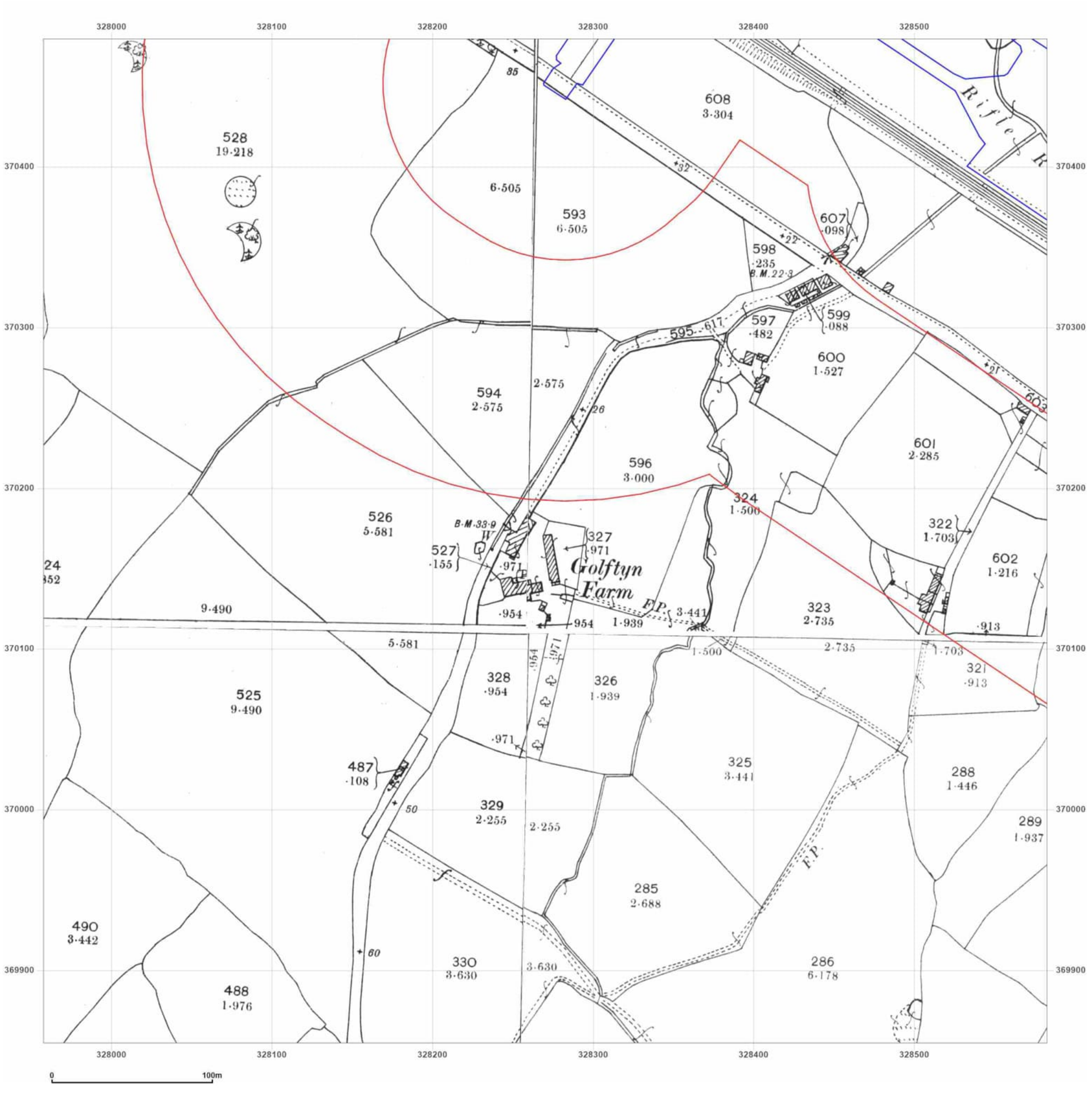
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

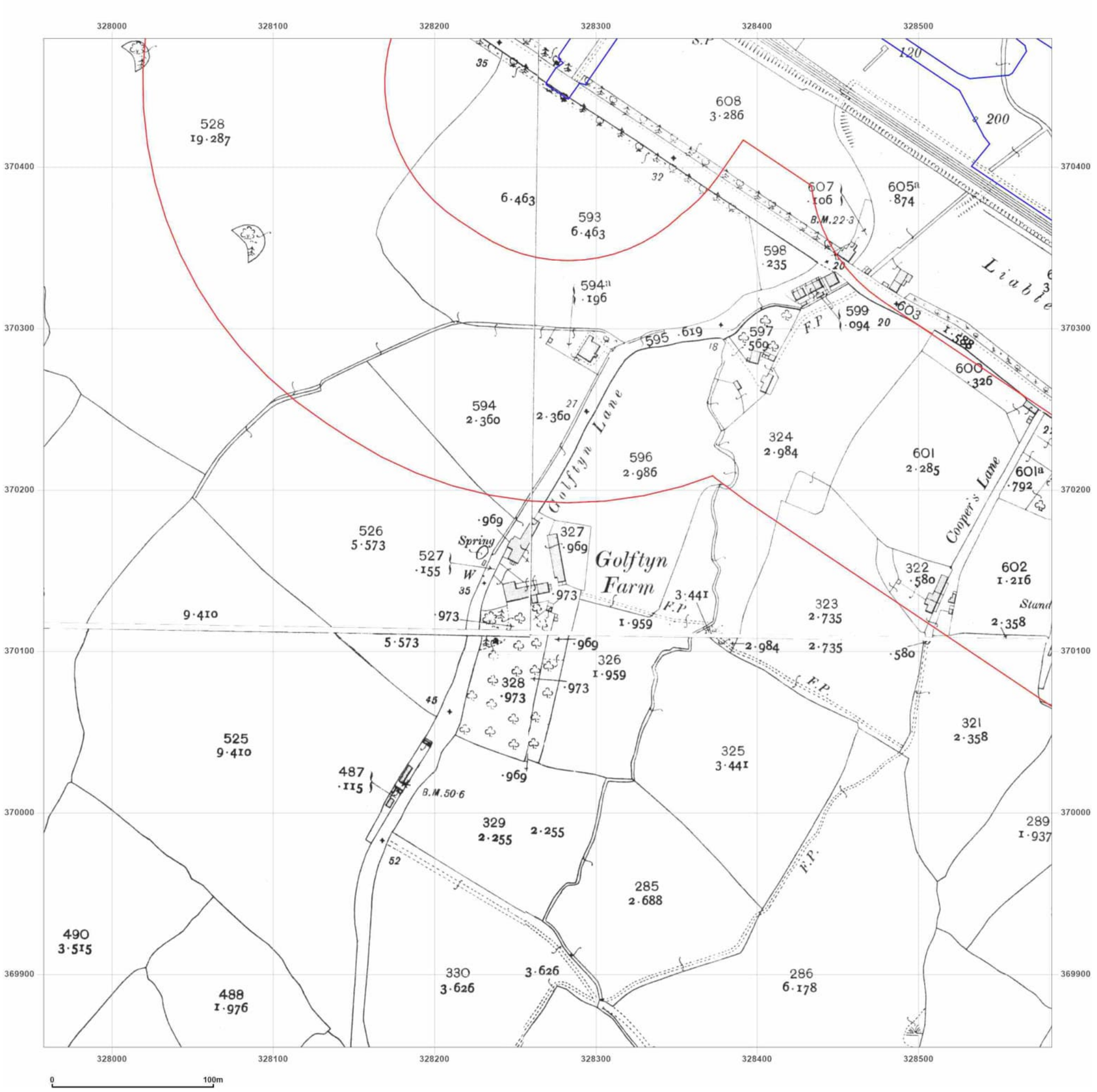
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

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

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

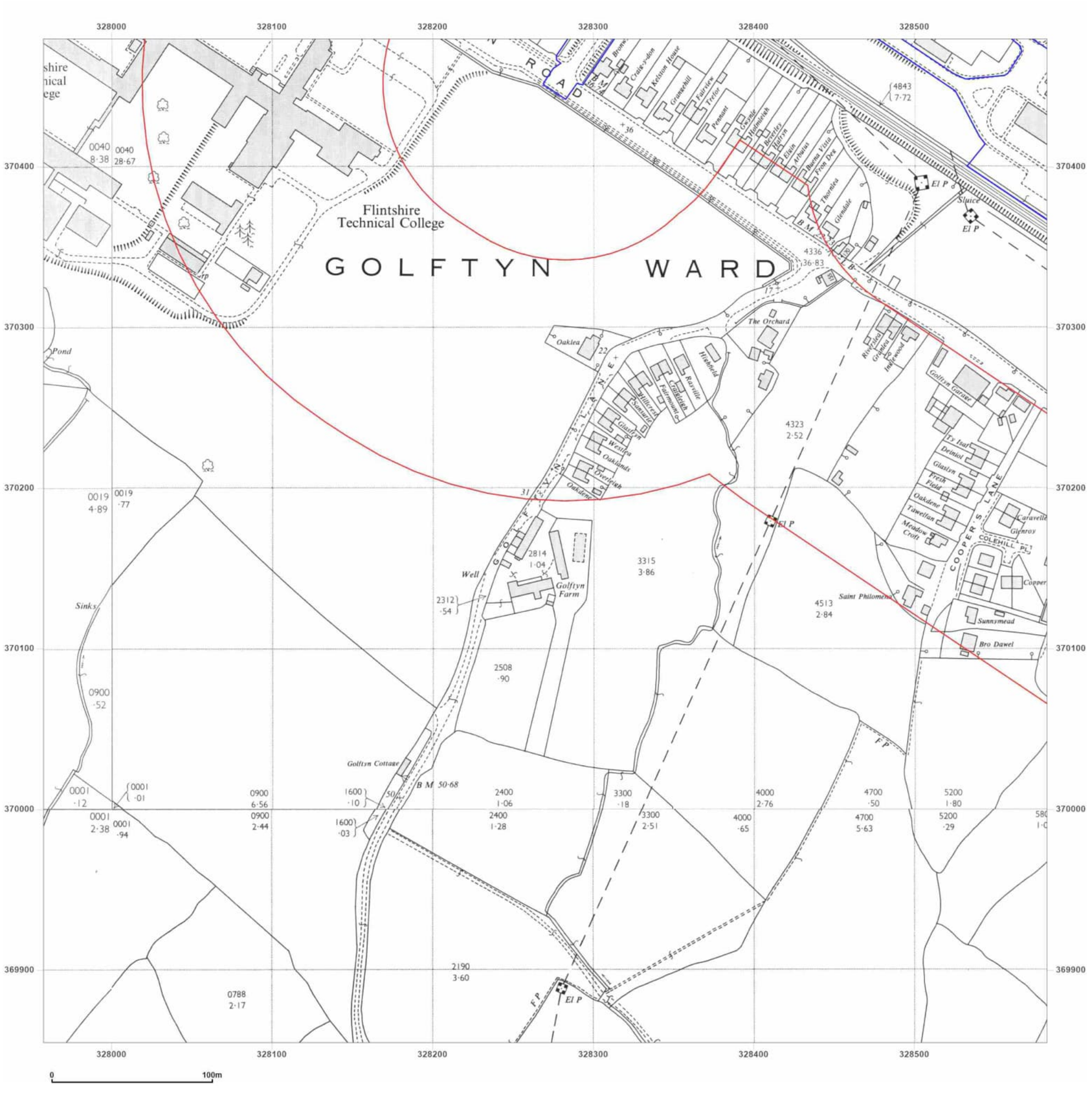
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid
Map date: **1962-1966**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1959

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid
Map date: 1964-1968
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1959

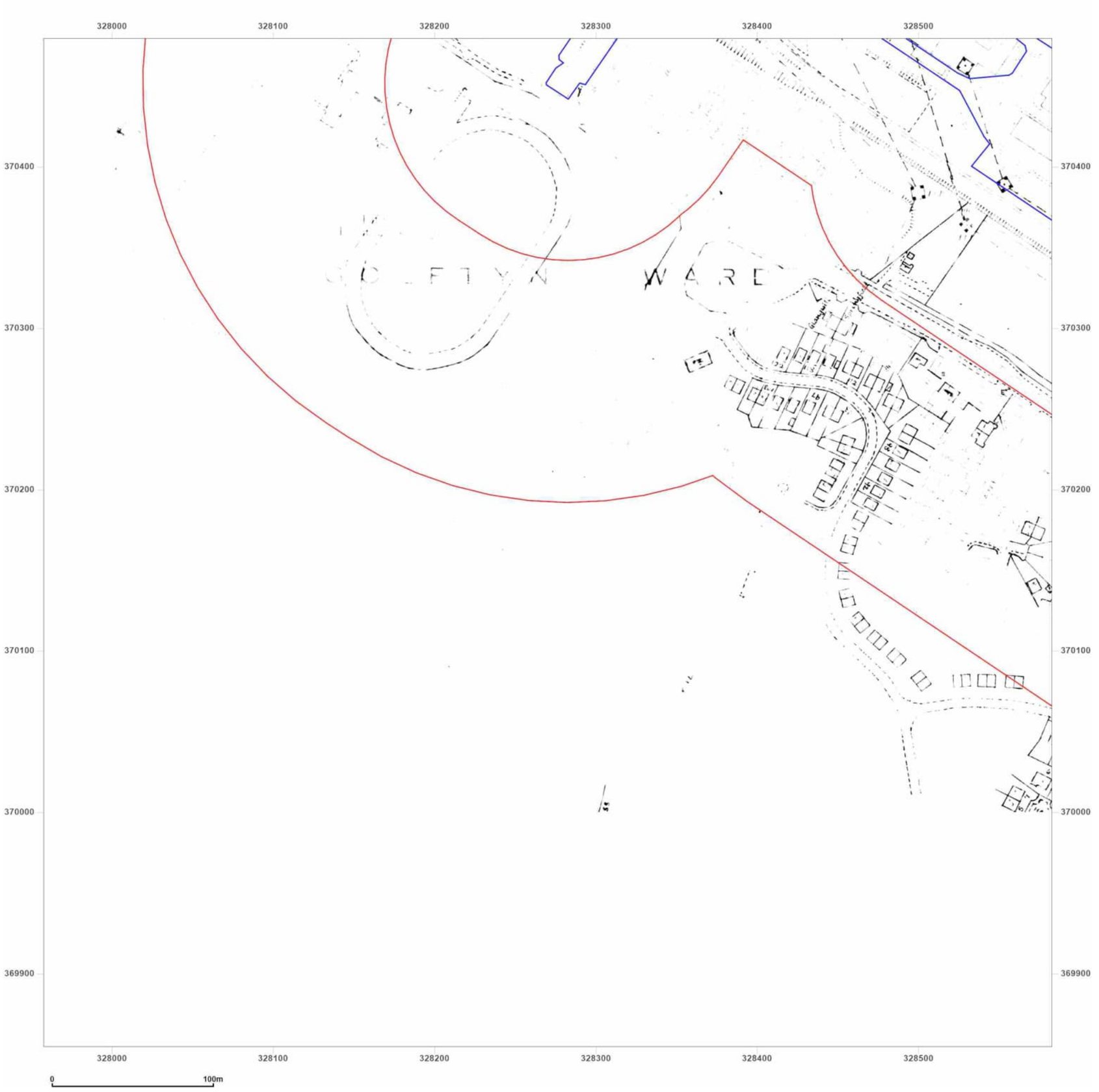
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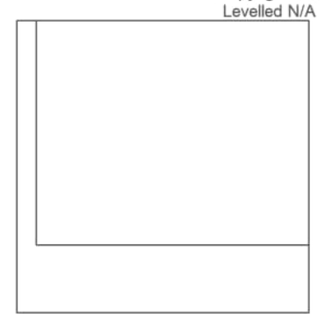
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid
Map date: **1976**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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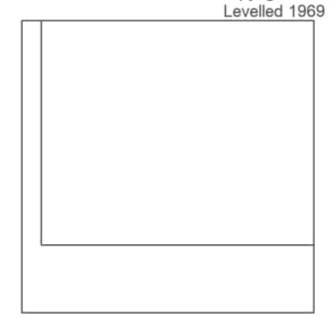
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid
Map date: **1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1969



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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid

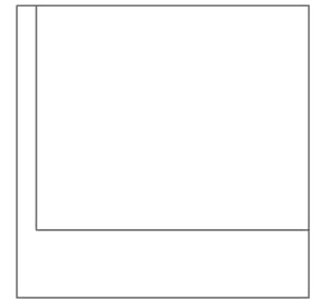
Map date: **1980**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1978
Revised 1980
Edition N/A
Copyright 1982
Levelled 1959



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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_1
Grid Ref: 328270, 370167

Map Name: National Grid

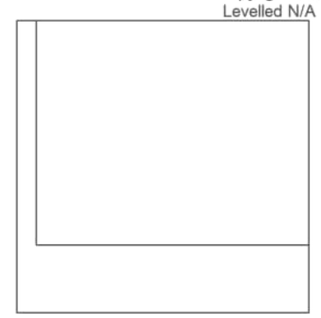
Map date: **1982**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



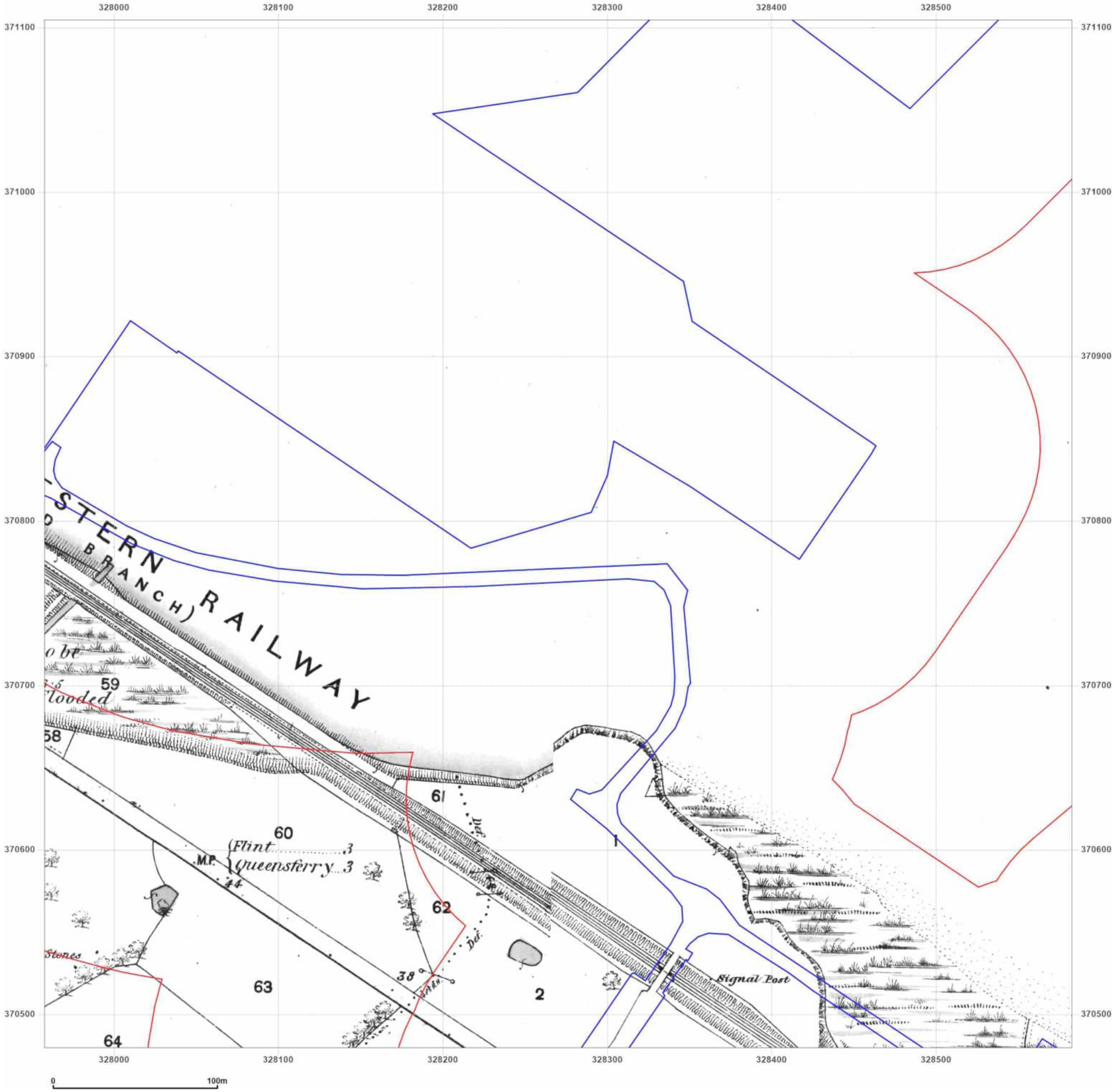
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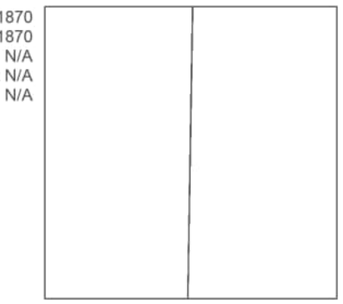
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

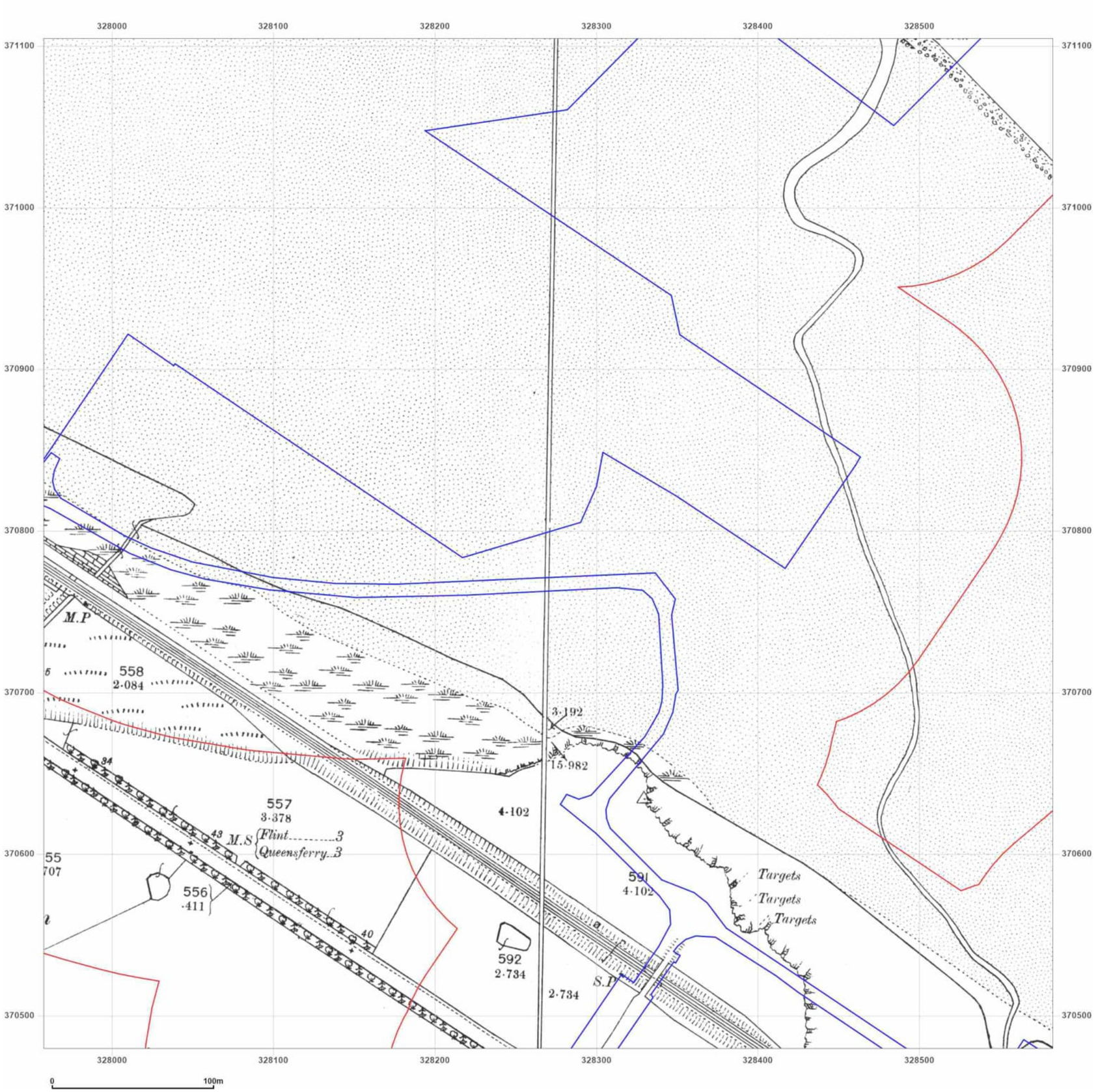
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

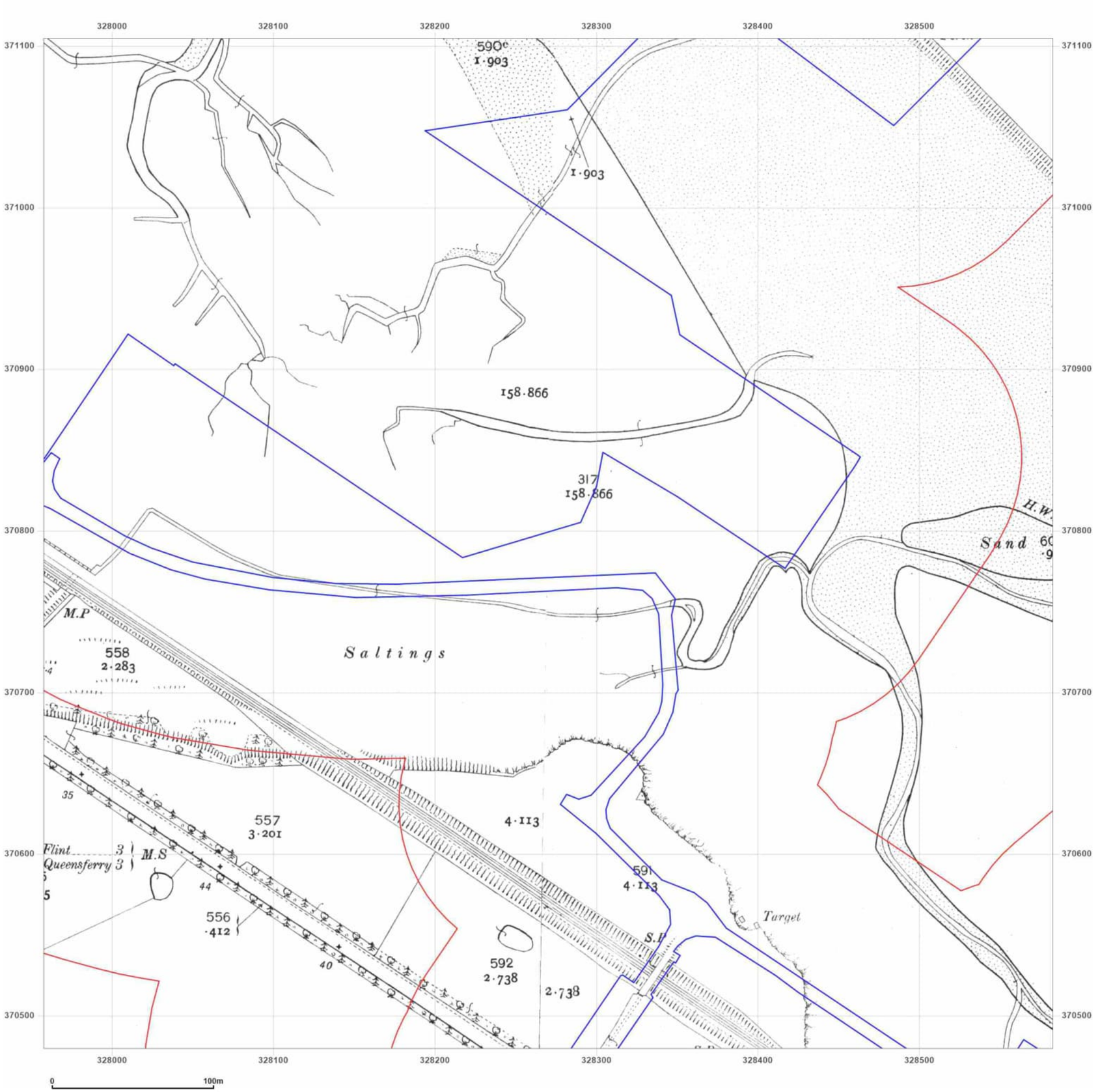
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

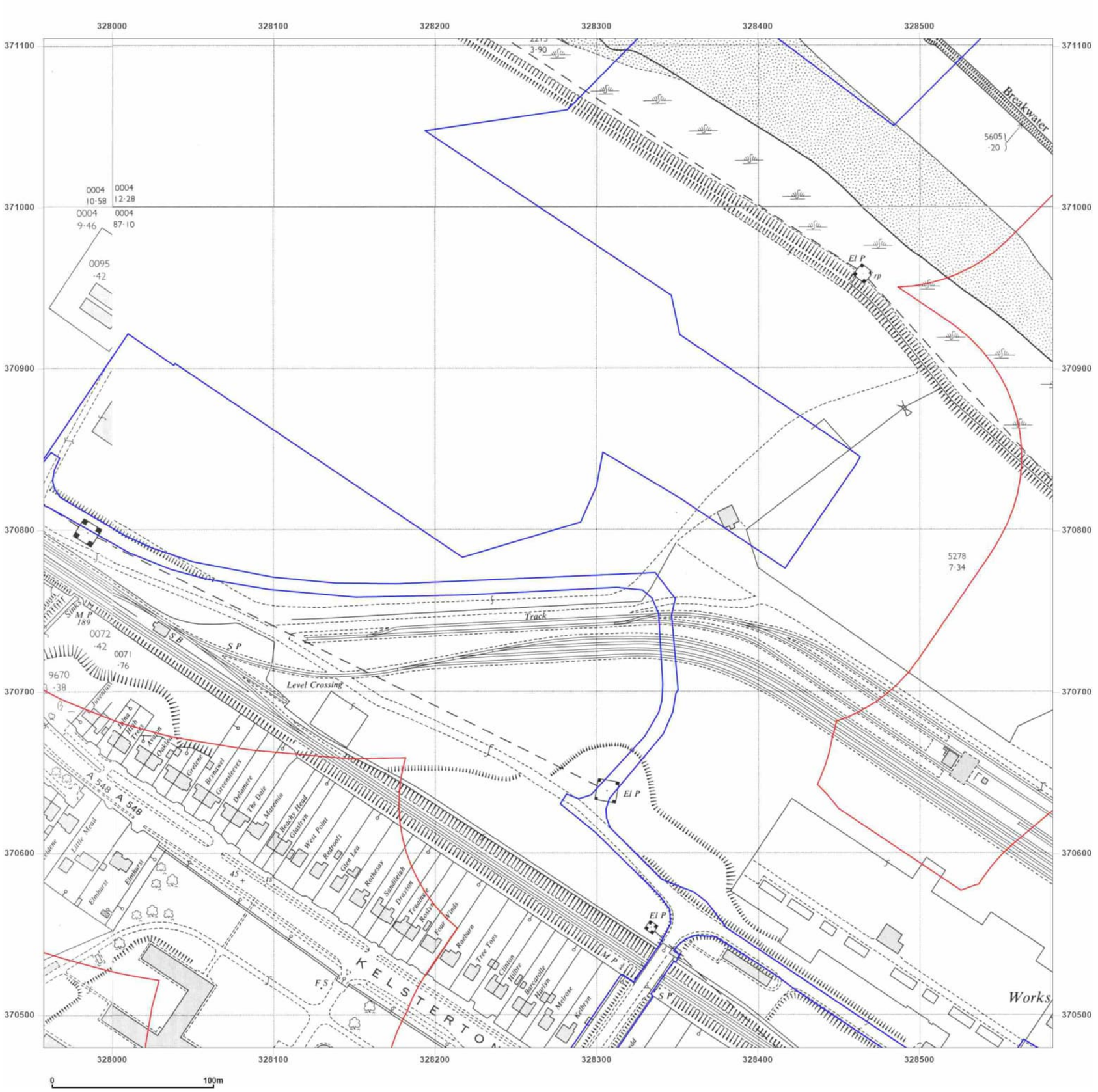
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid
Map date: **1962-1965**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1952

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

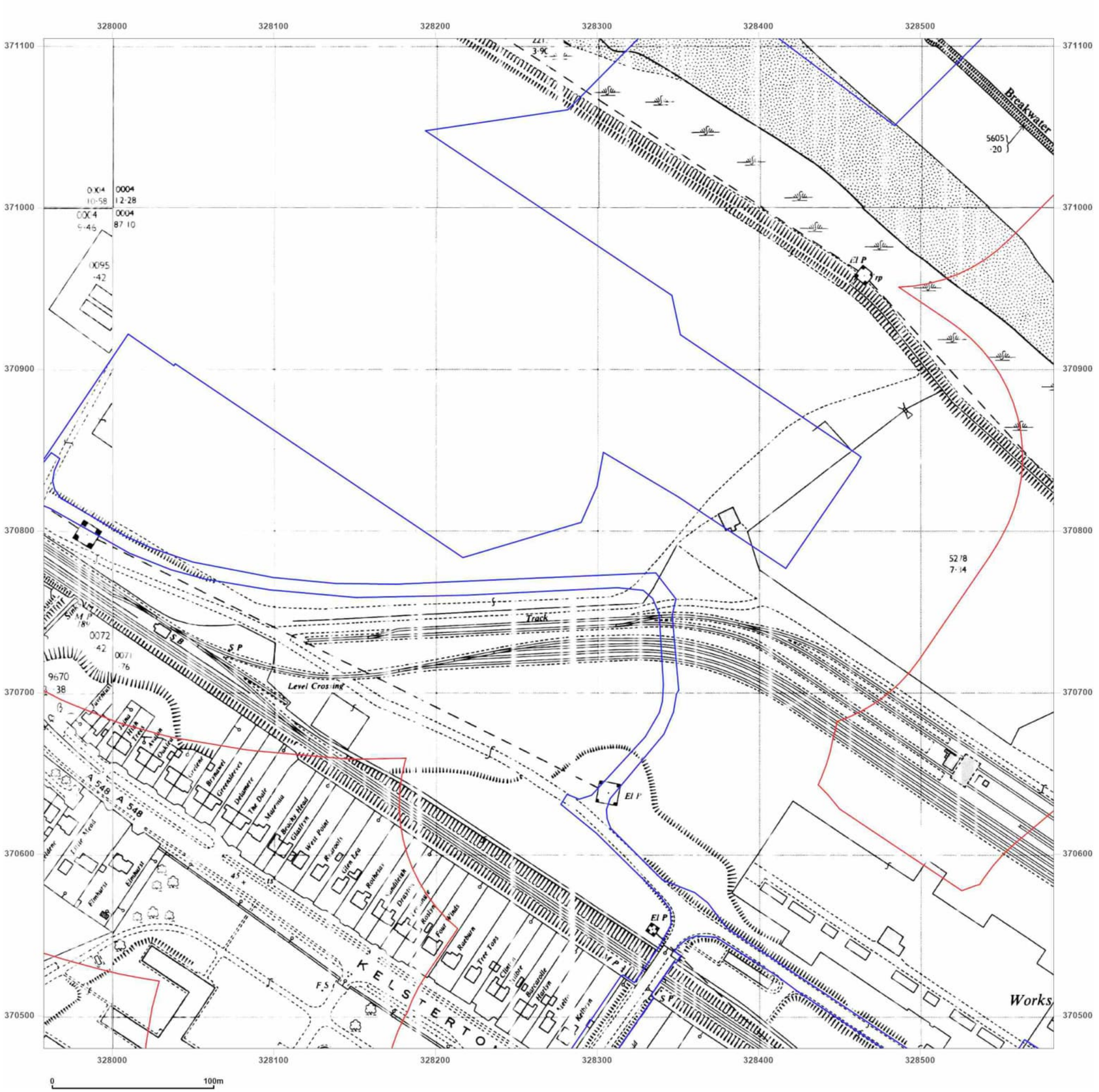
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid
Map date: **1964-1967**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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 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

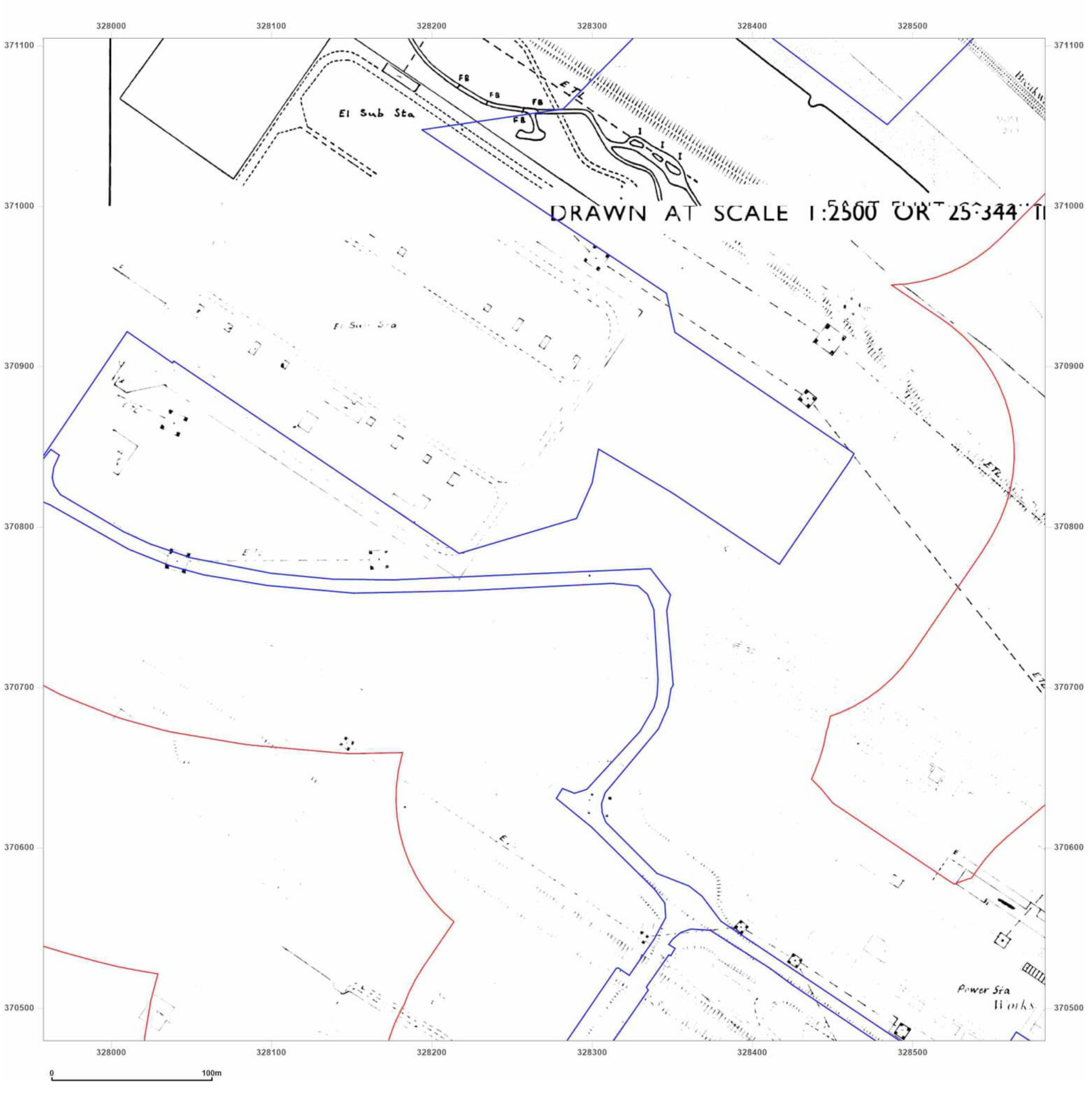
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid
Map date: **1973-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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 1978
Levelled 1965

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

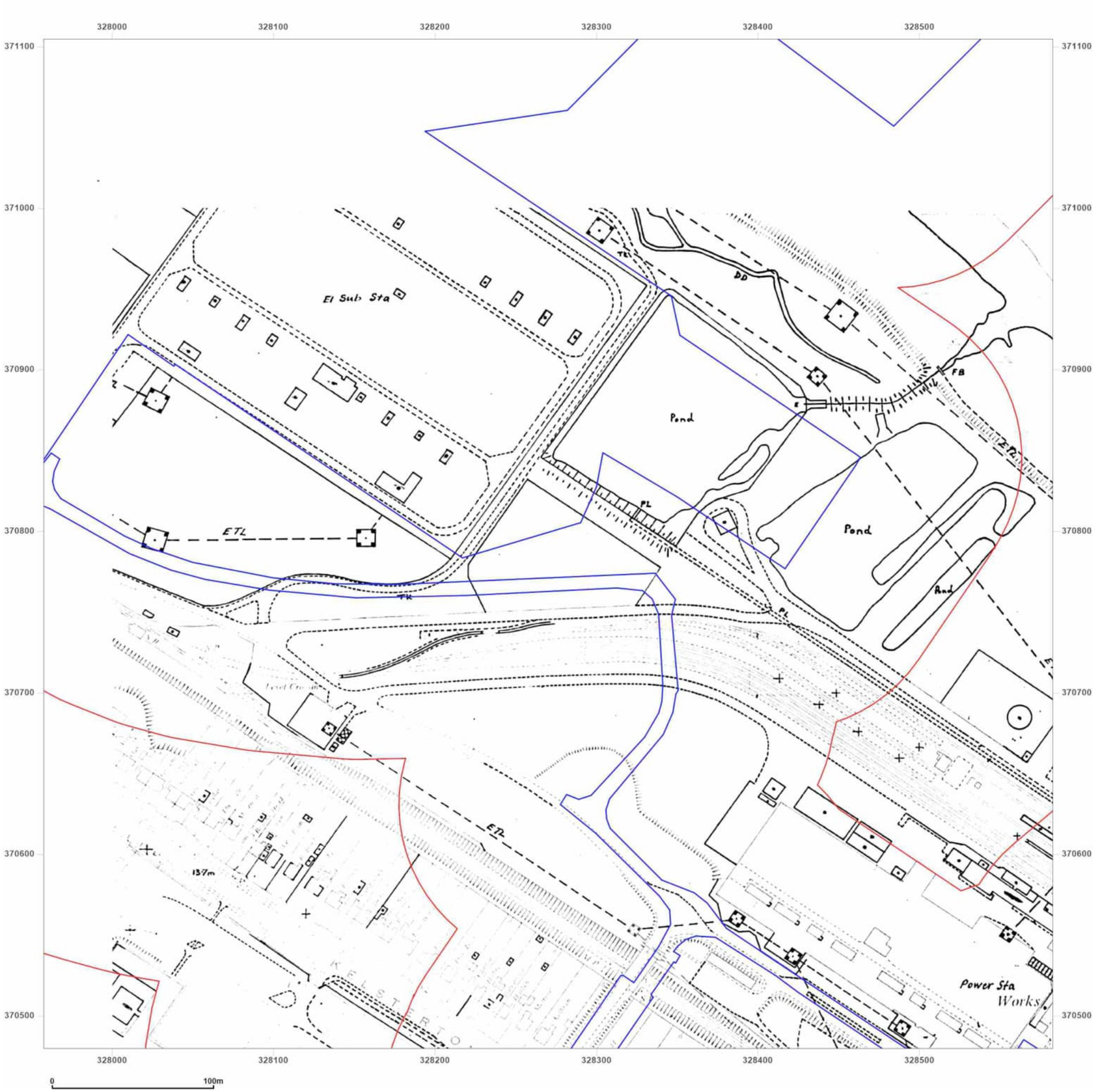
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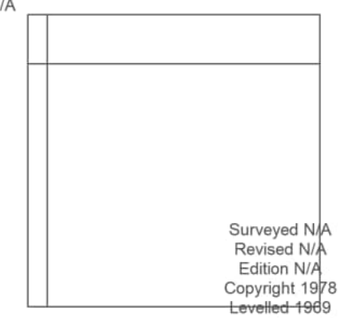
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Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid
Map date: **1977-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



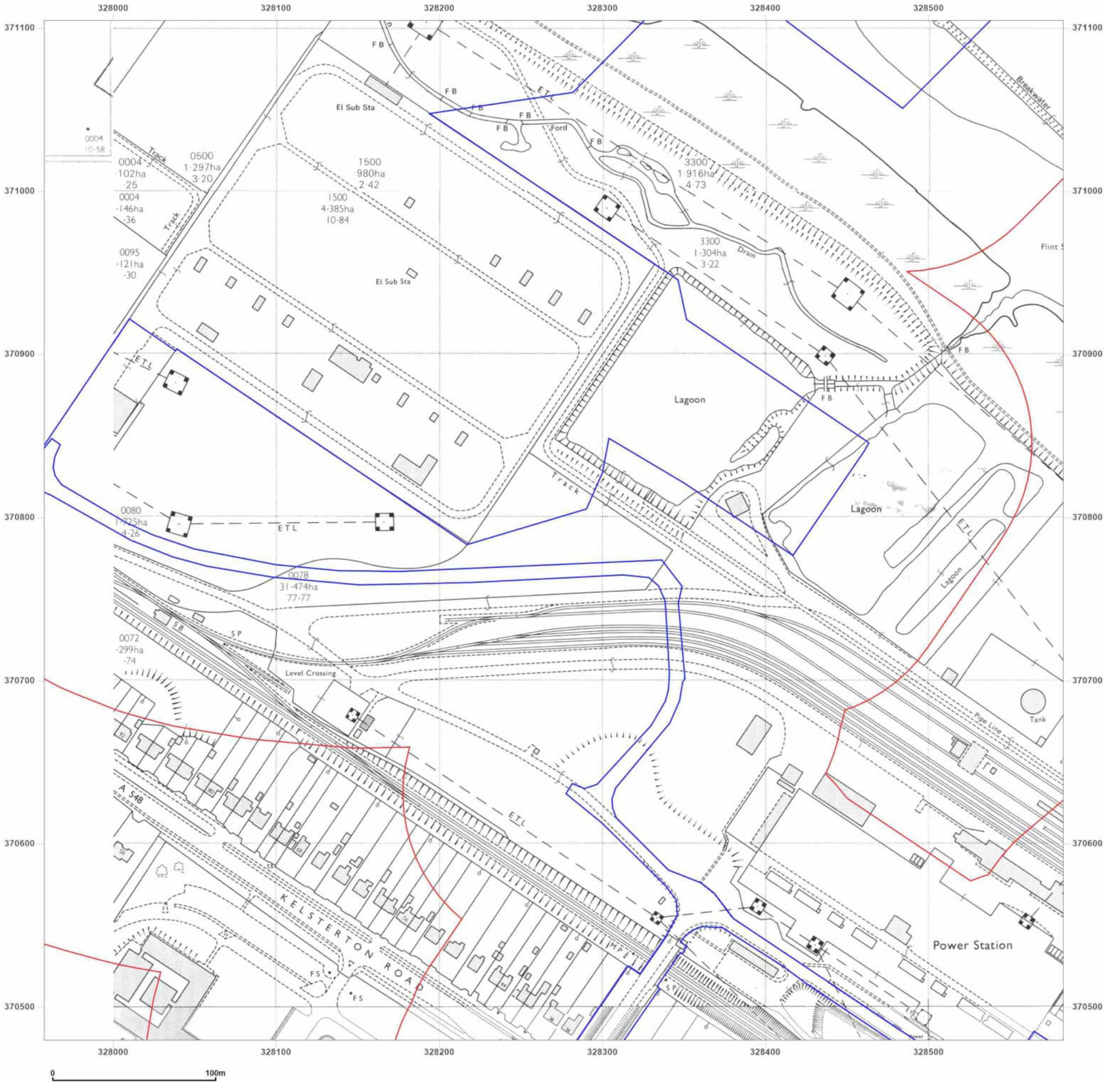
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid

Map date: **1979-1983**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1965

Surveyed 1978
Revised 1980
Edition N/A
Copyright 1982
Levelled 1959

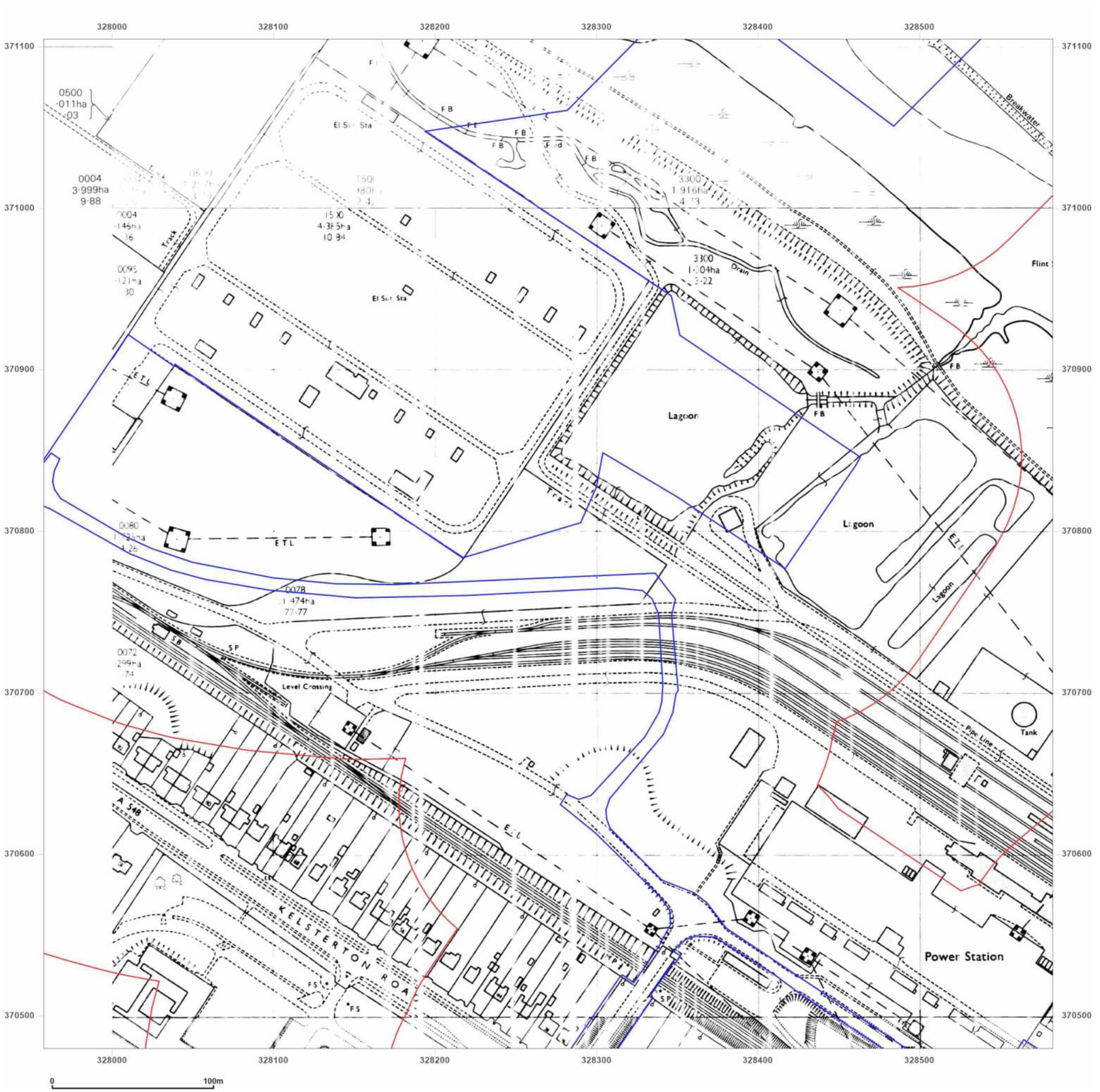
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Connors Quay Updated

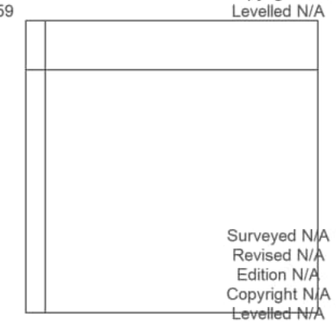
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_2
Grid Ref: 328270, 370792

Map Name: National Grid
Map date: **1982-1986**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1986
Edition N/A
Copyright 1988
Levelled 1959

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

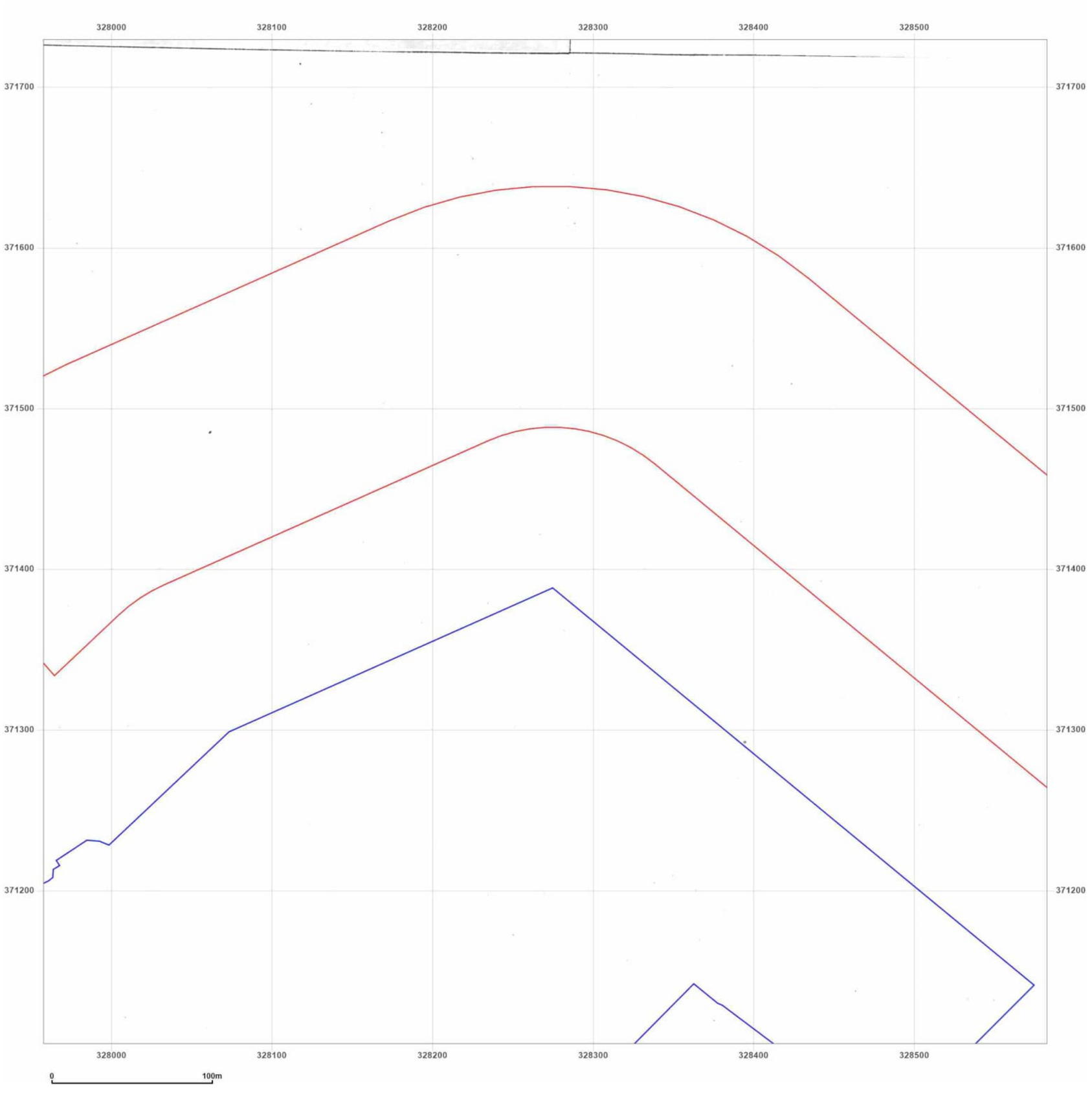
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Connors Quay Updated

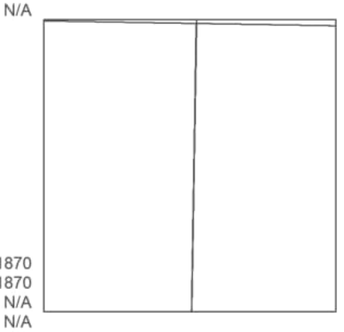
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

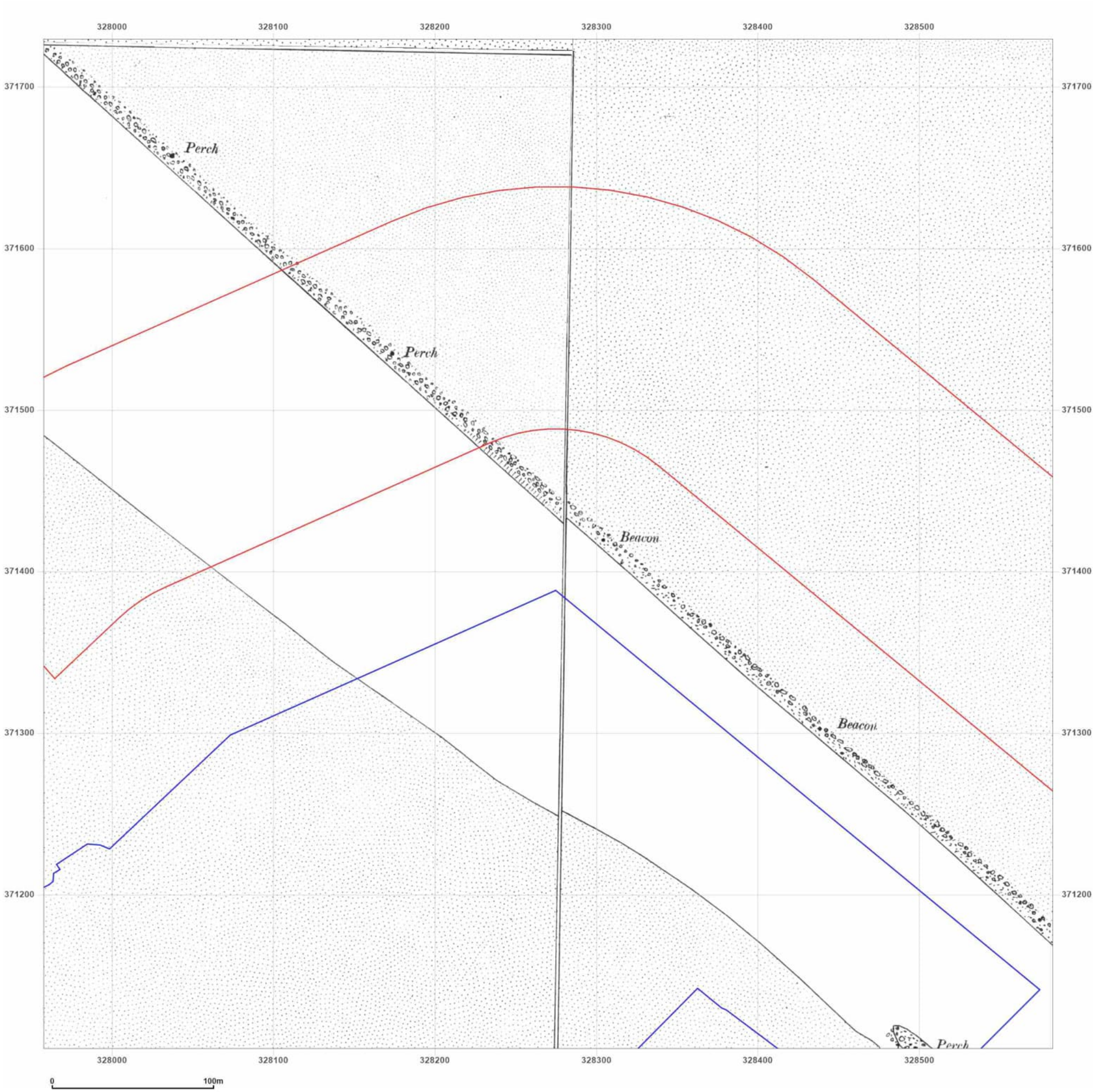
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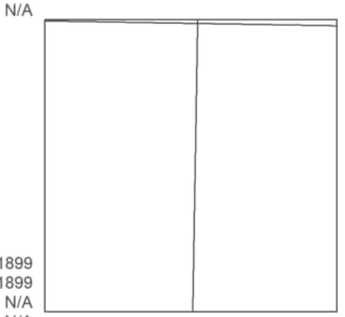
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: County Series
Map date: **1899**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

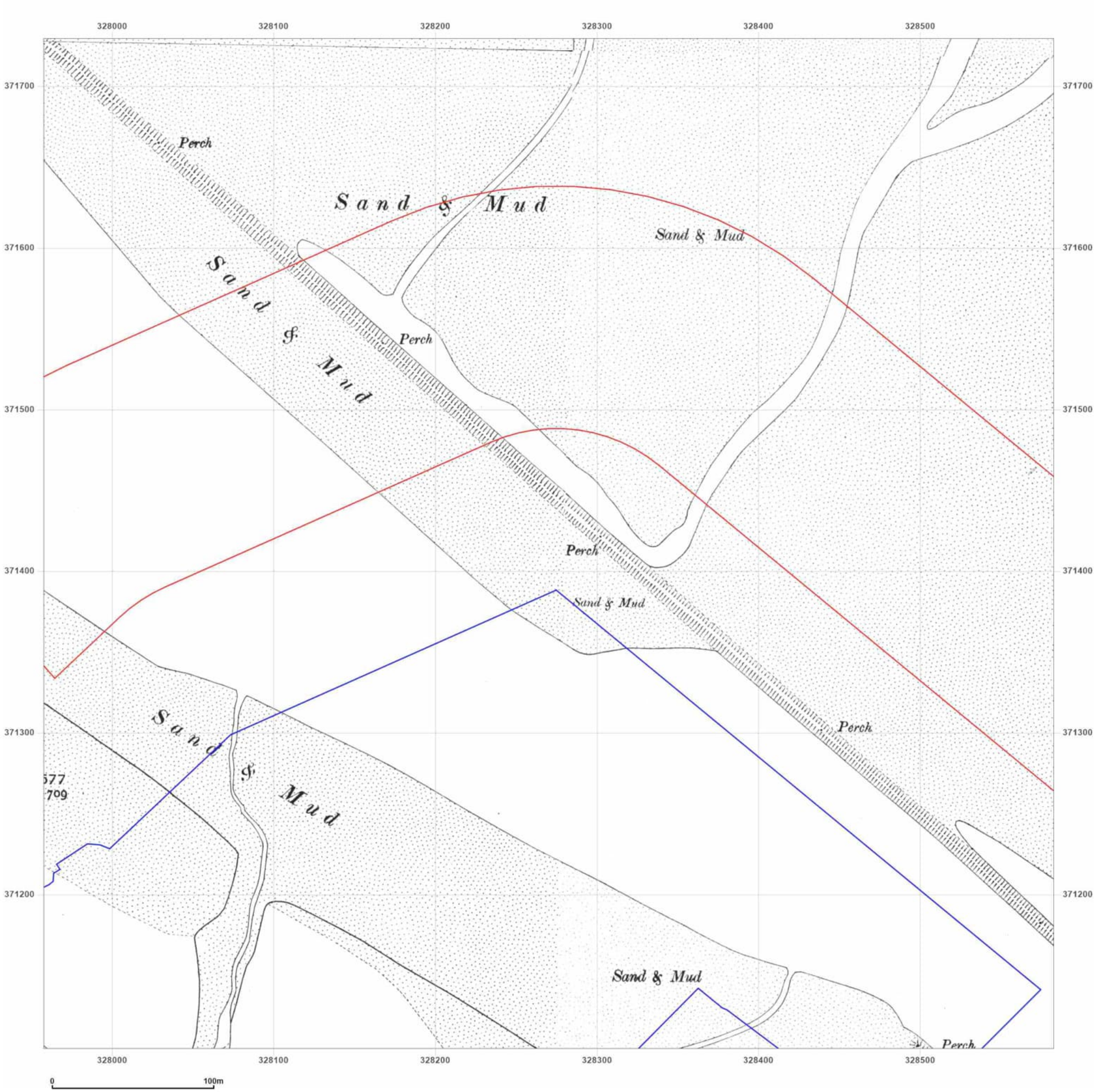
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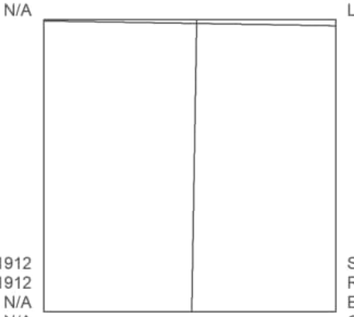
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

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

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

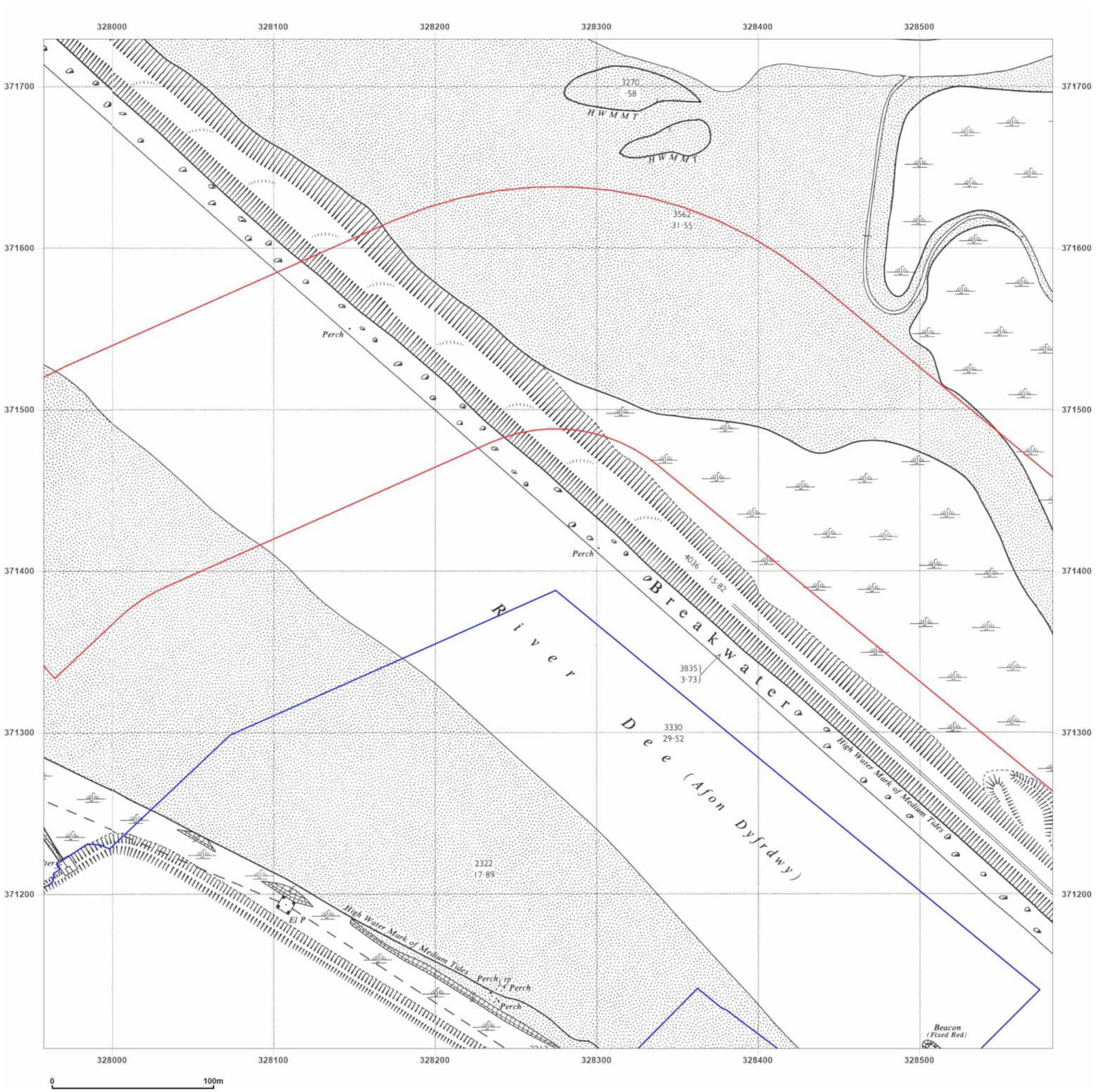
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1962**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1952

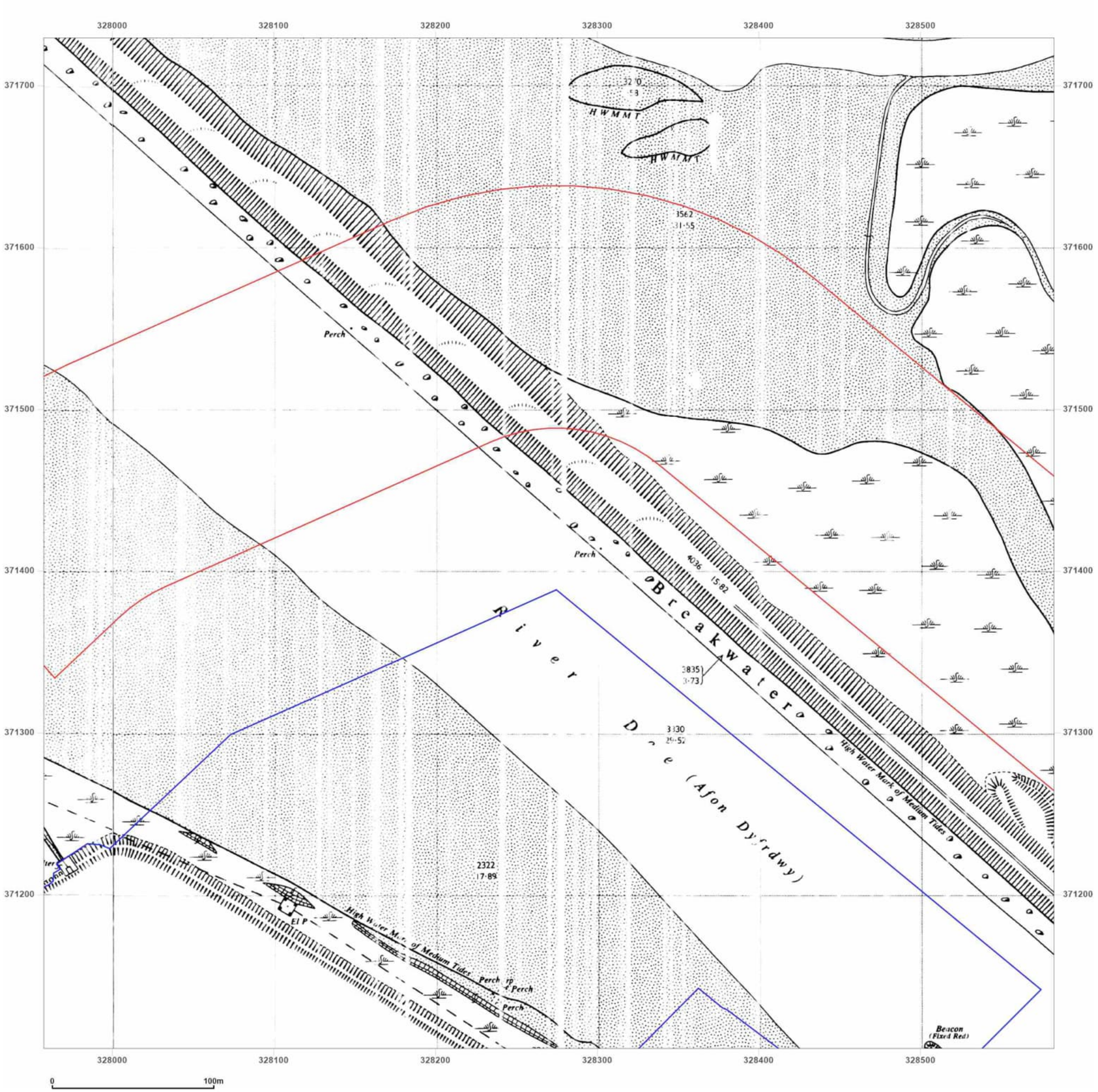
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

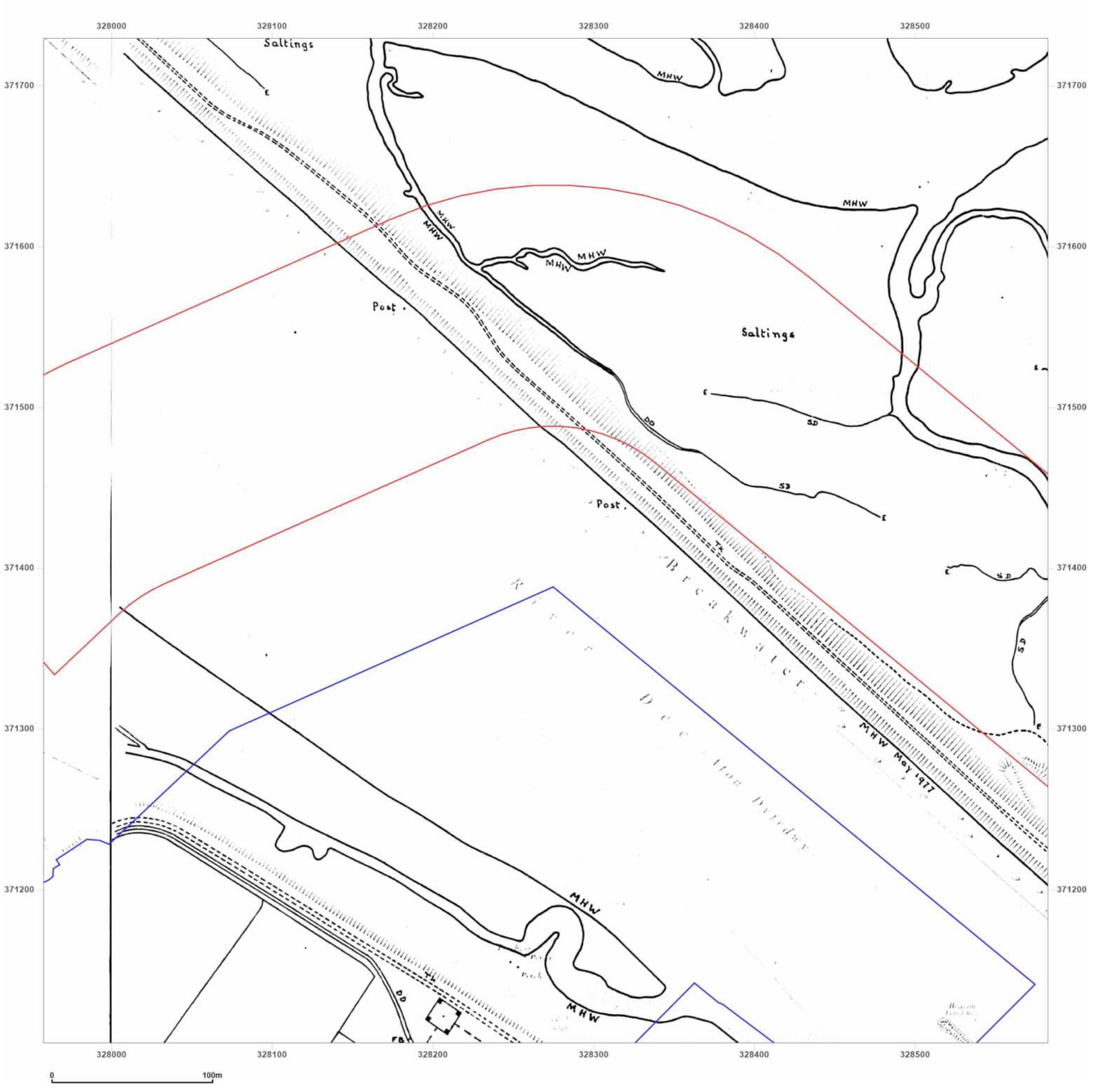
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1973-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition N/A
Copyright N/A	Copyright 1978
Levelled N/A	Levelled 1965

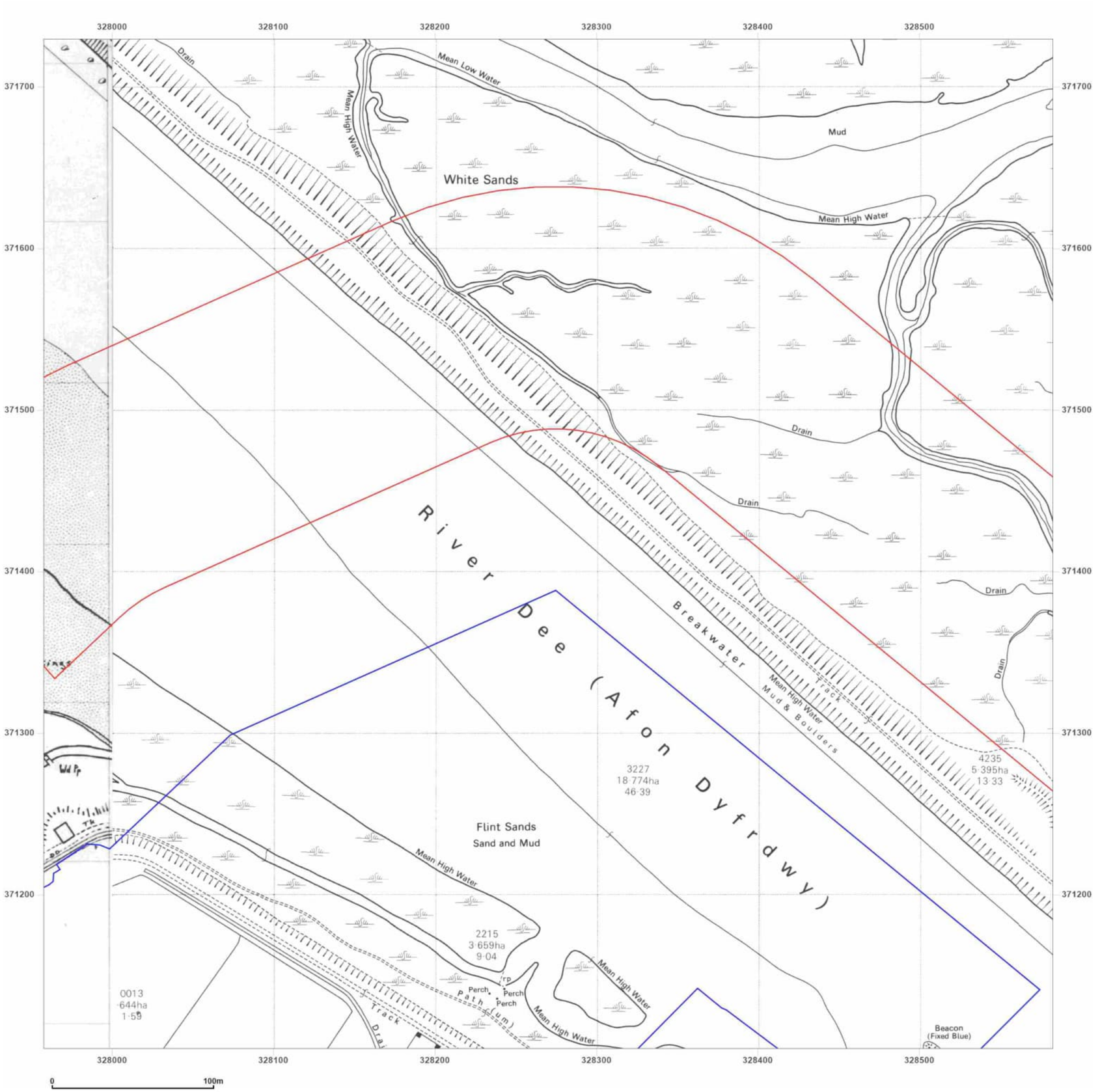
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1979-1983**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1965

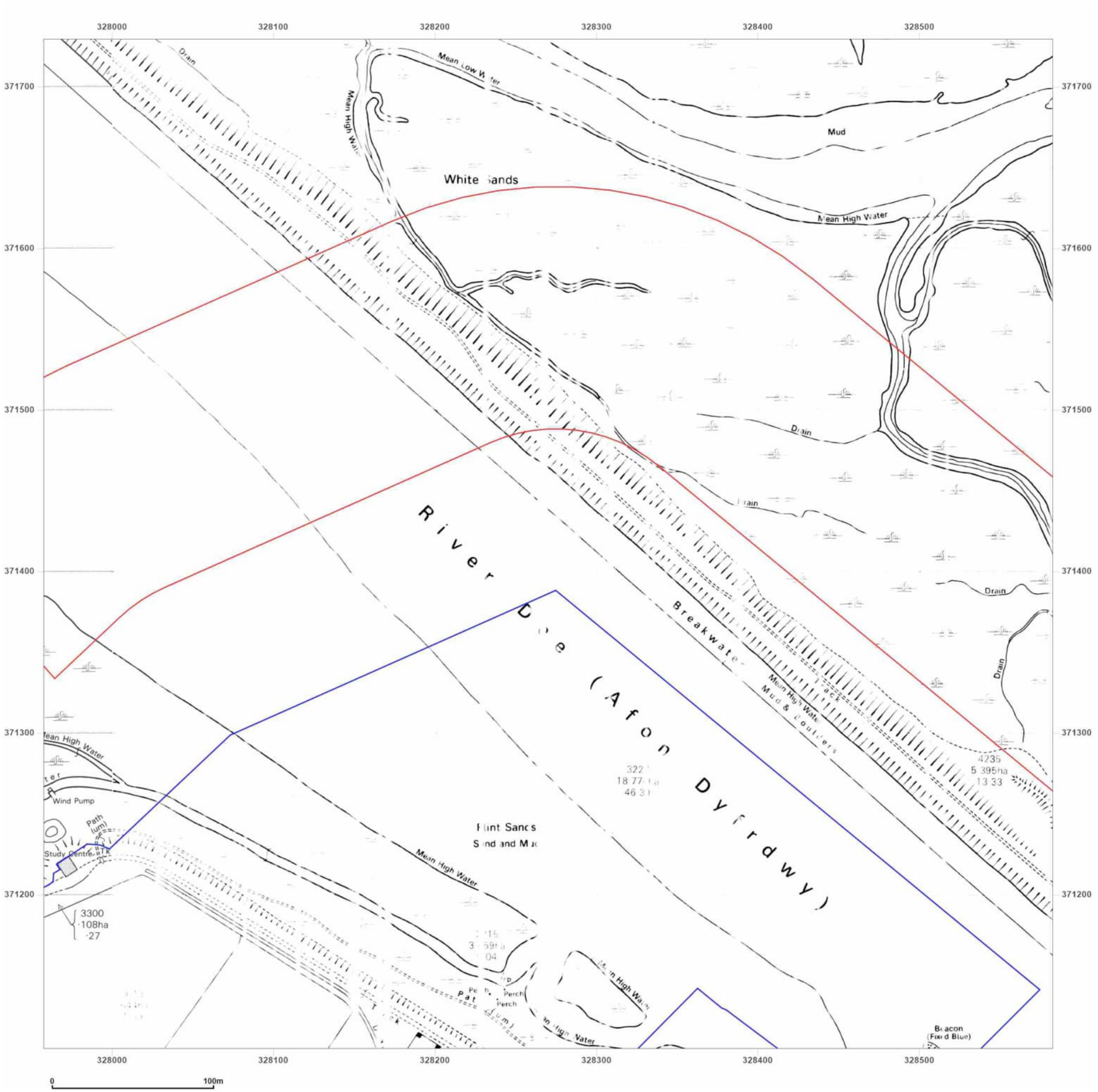
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1985-1986**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962	Surveyed N/A
Revised 1986	Revised N/A
Edition N/A	Edition N/A
Copyright 1988	Copyright N/A
Levelled 1959	Levelled N/A

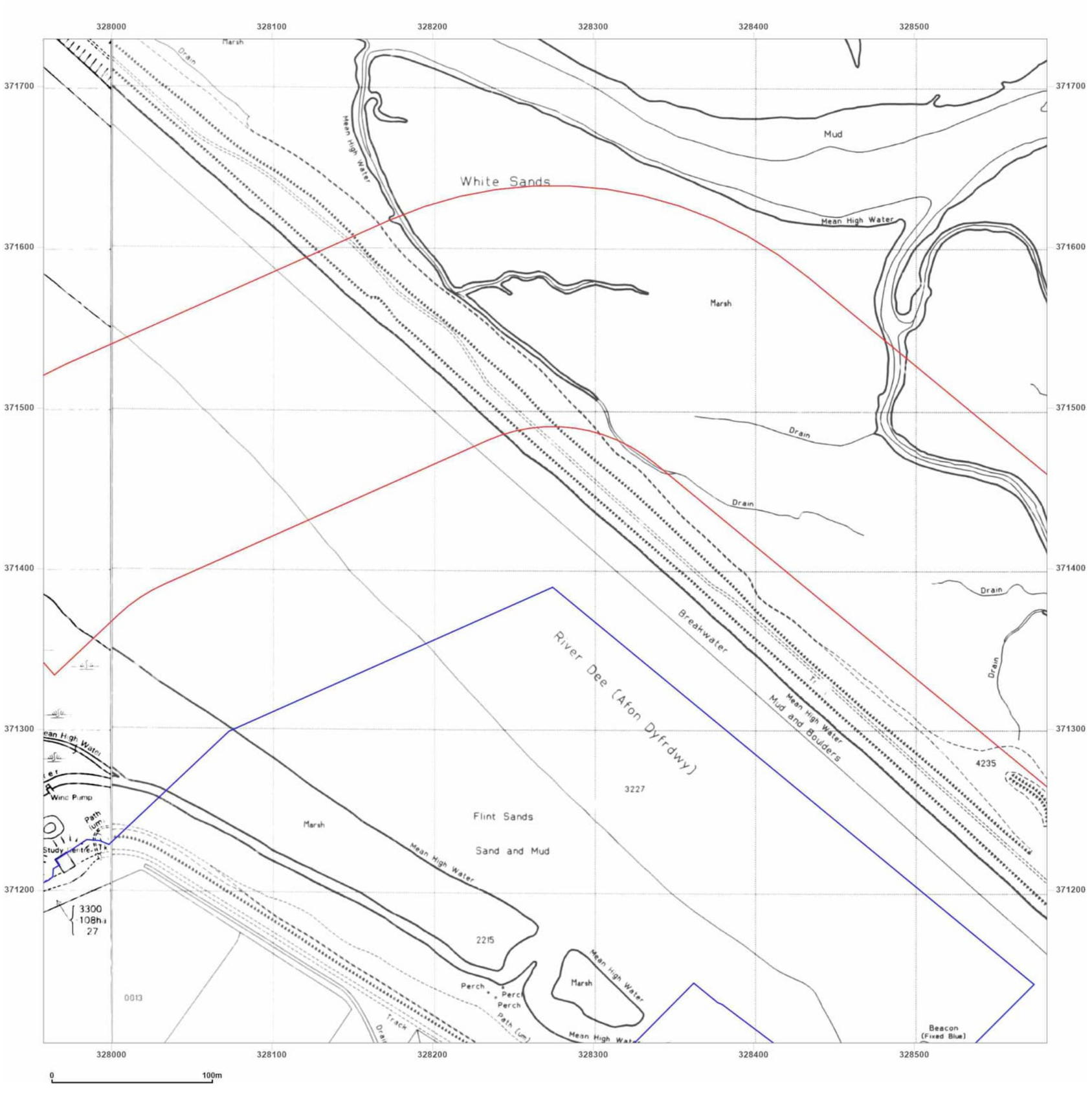
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_6_3
Grid Ref: 328270, 371417

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

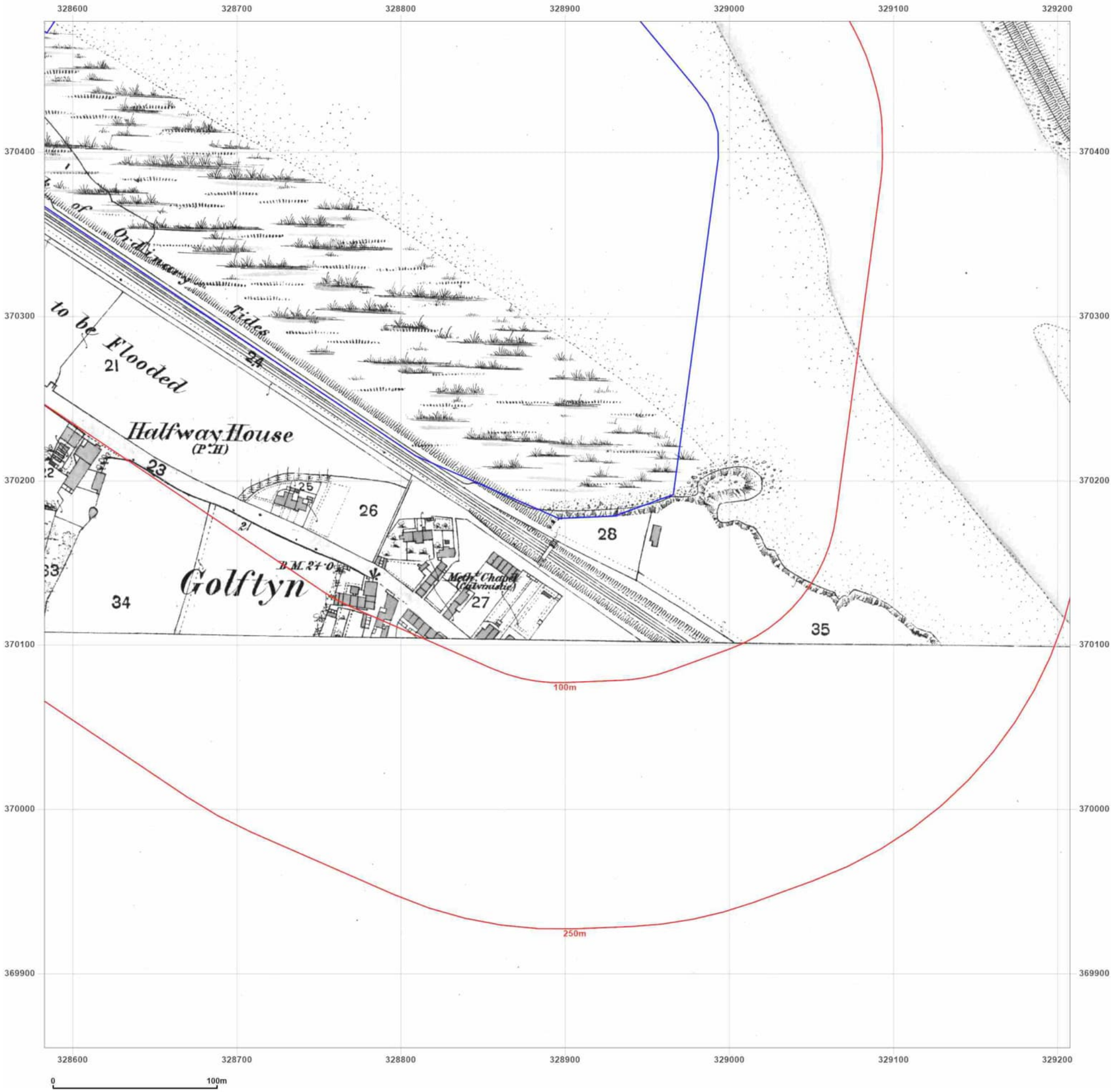
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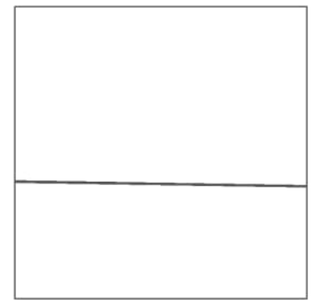
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: County Series
Map date: **1869-1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

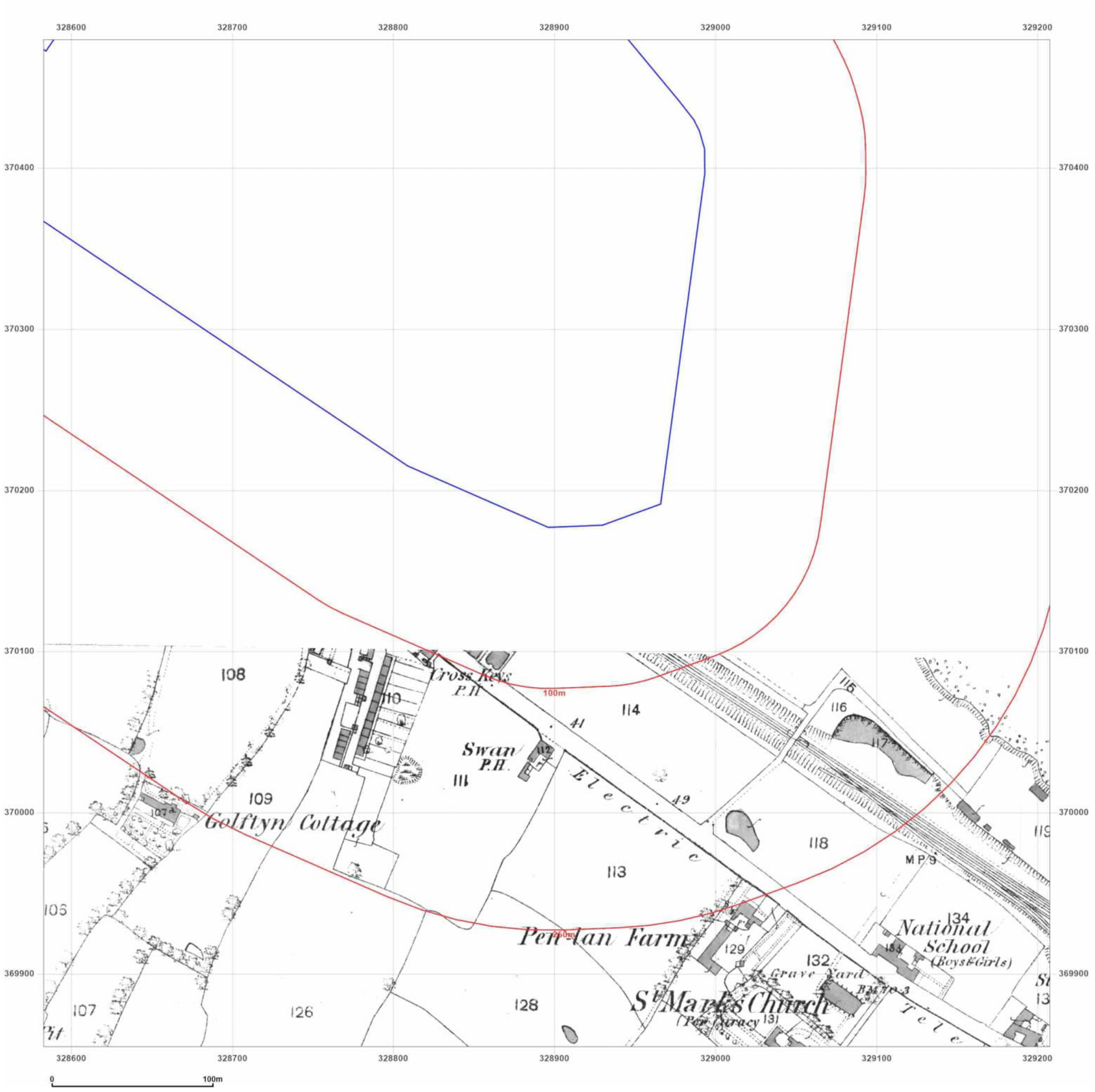
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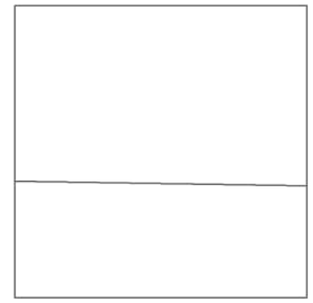
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: County Series
Map date: **1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

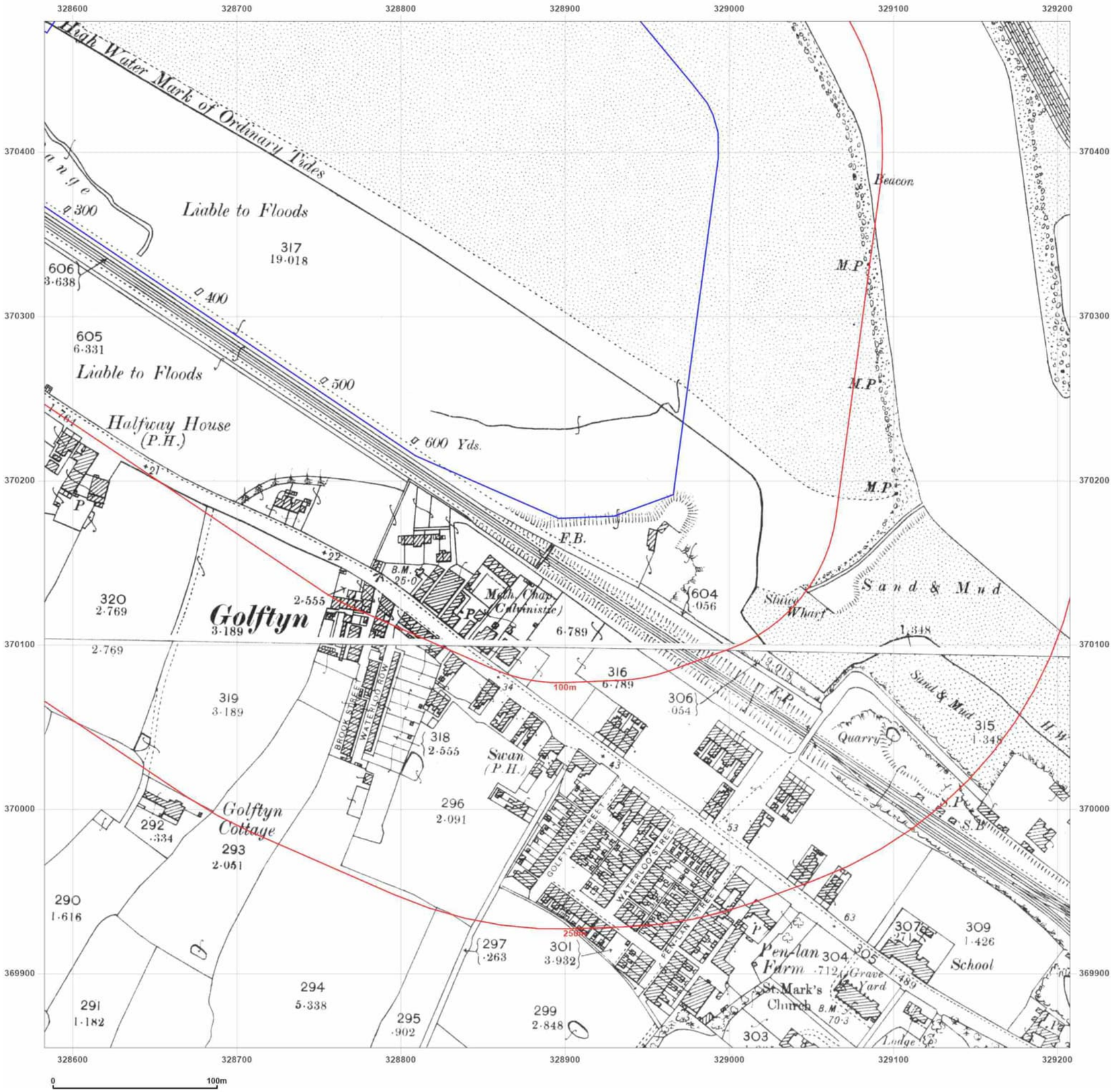
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Site Details:

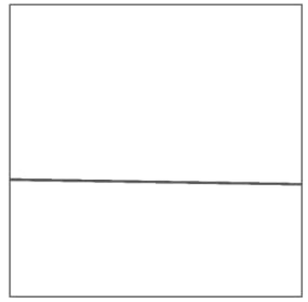
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 07 March 2024

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: County Series

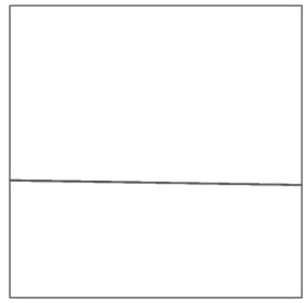
Map date: **1912**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



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

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1959

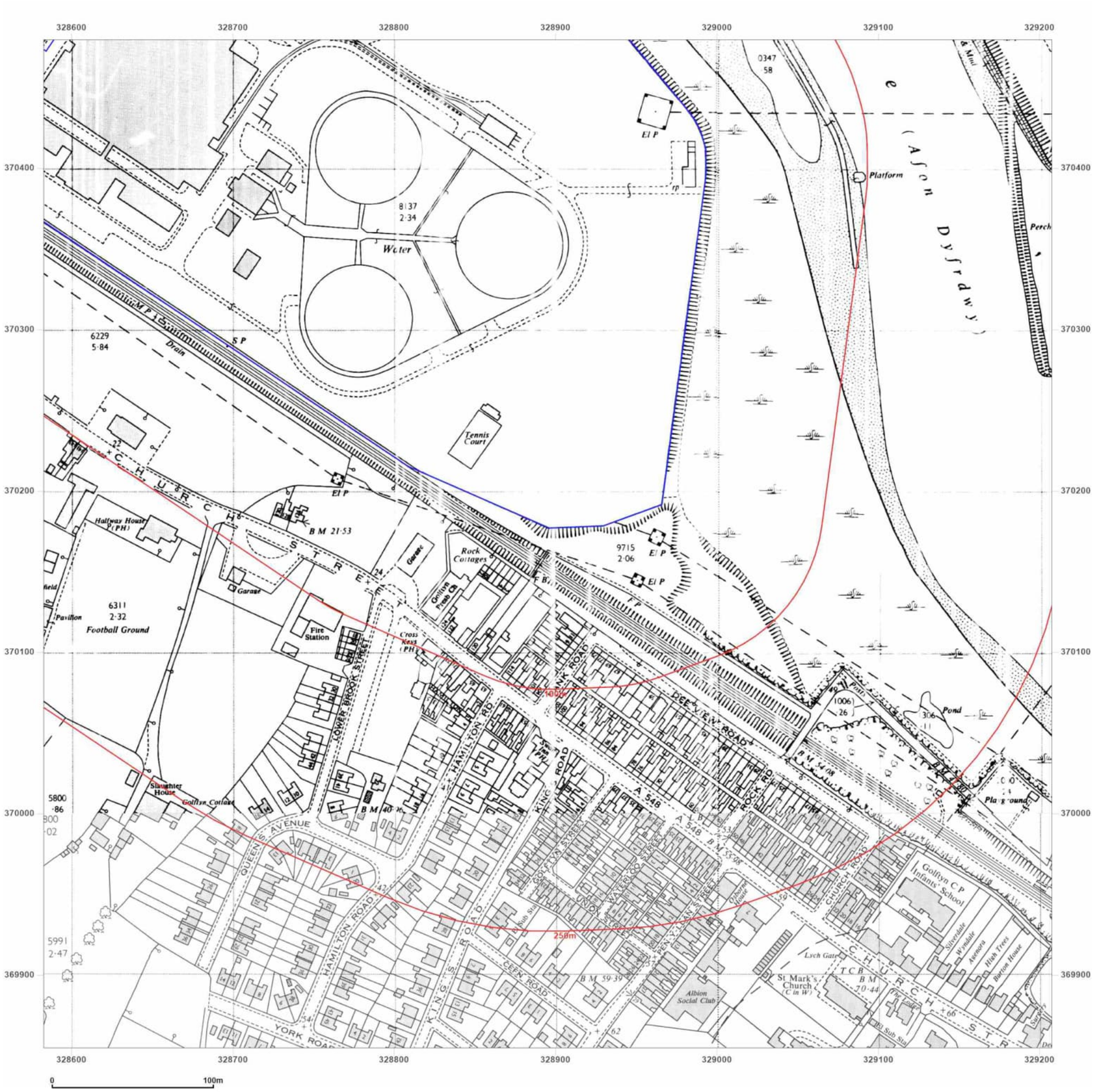
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid

Map date: **1964-1968**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1959

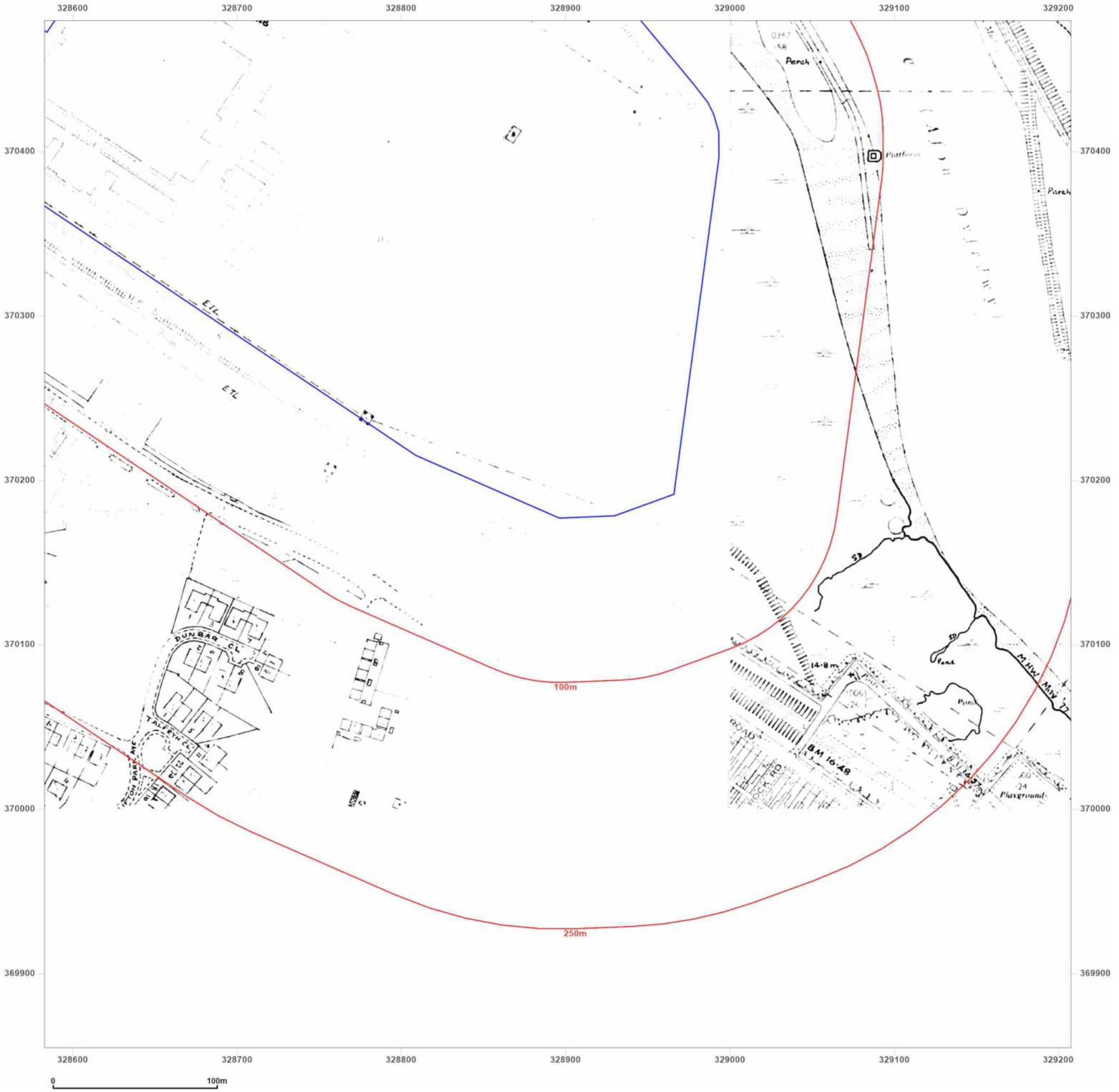
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Production date: 07 March 2024

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Site Details:

Connors Quay Updated

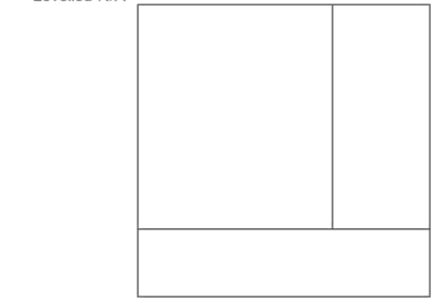
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: **1976-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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 1978
Levelled 1959



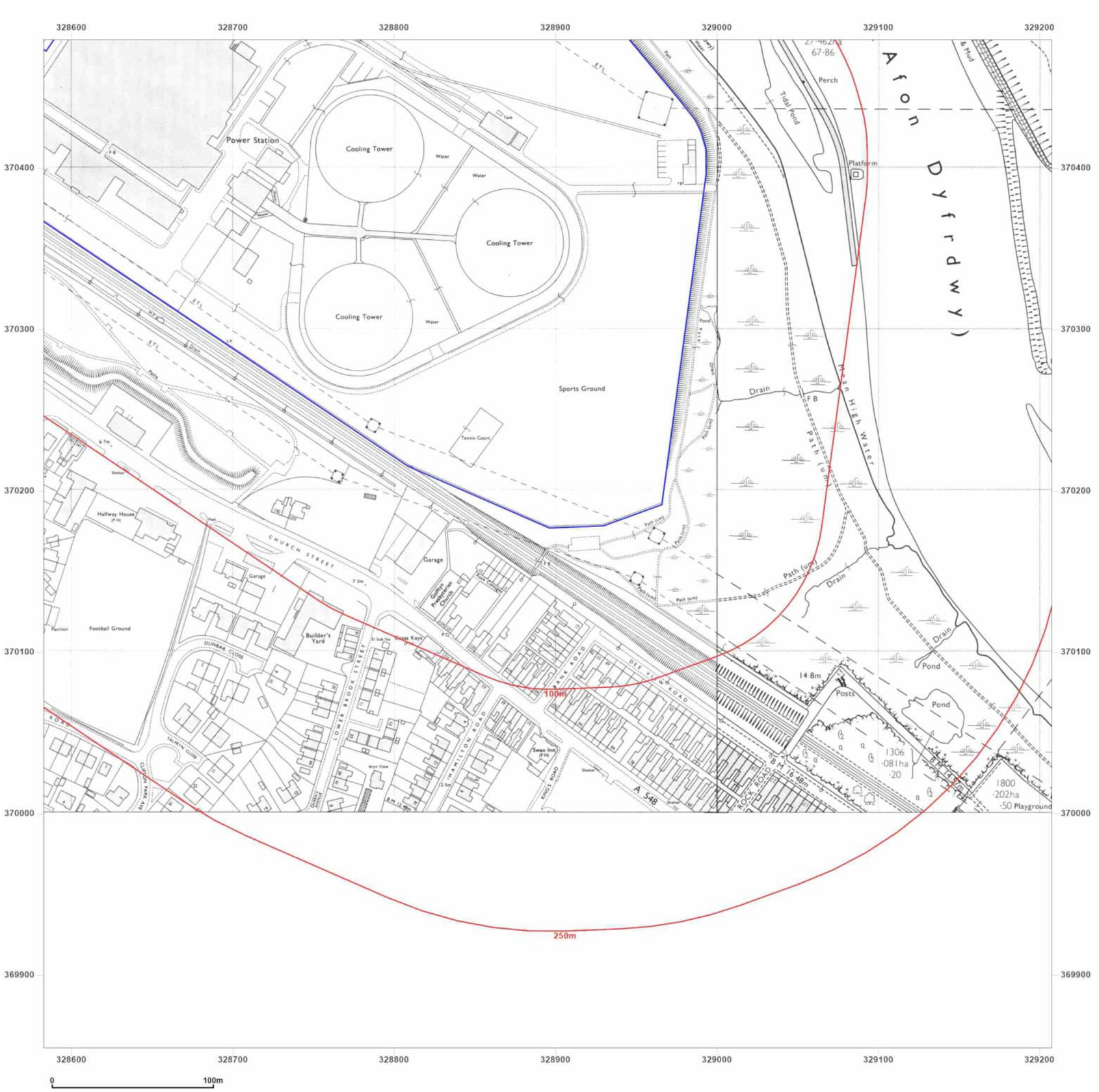
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid

Map date: **1980**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1978
Revised 1980
Edition N/A
Copyright 1982
Levelled 1959

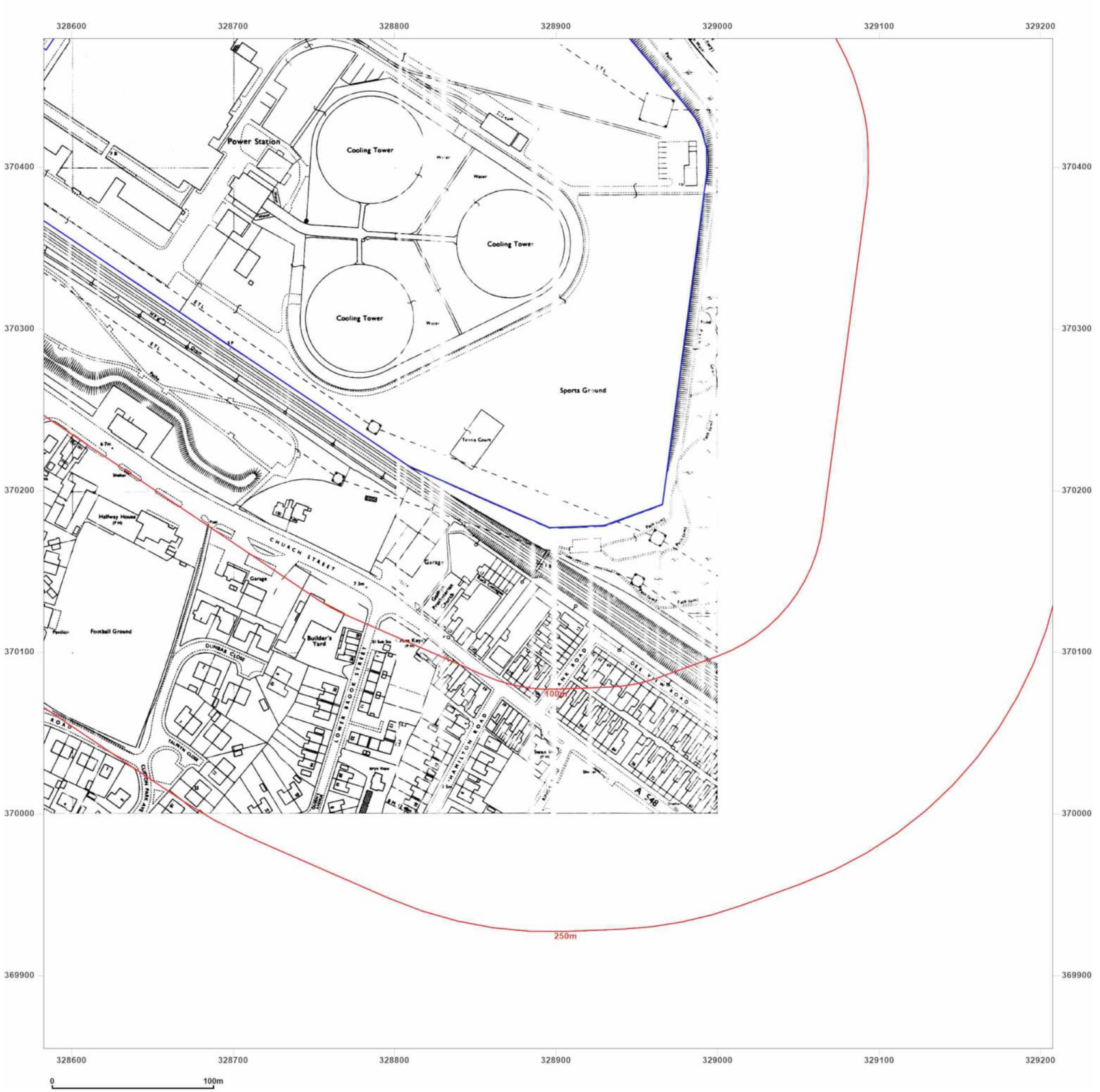
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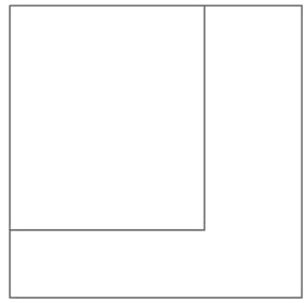
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: 1982
Scale: 1:2,500
Printed at: 1:2,500

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



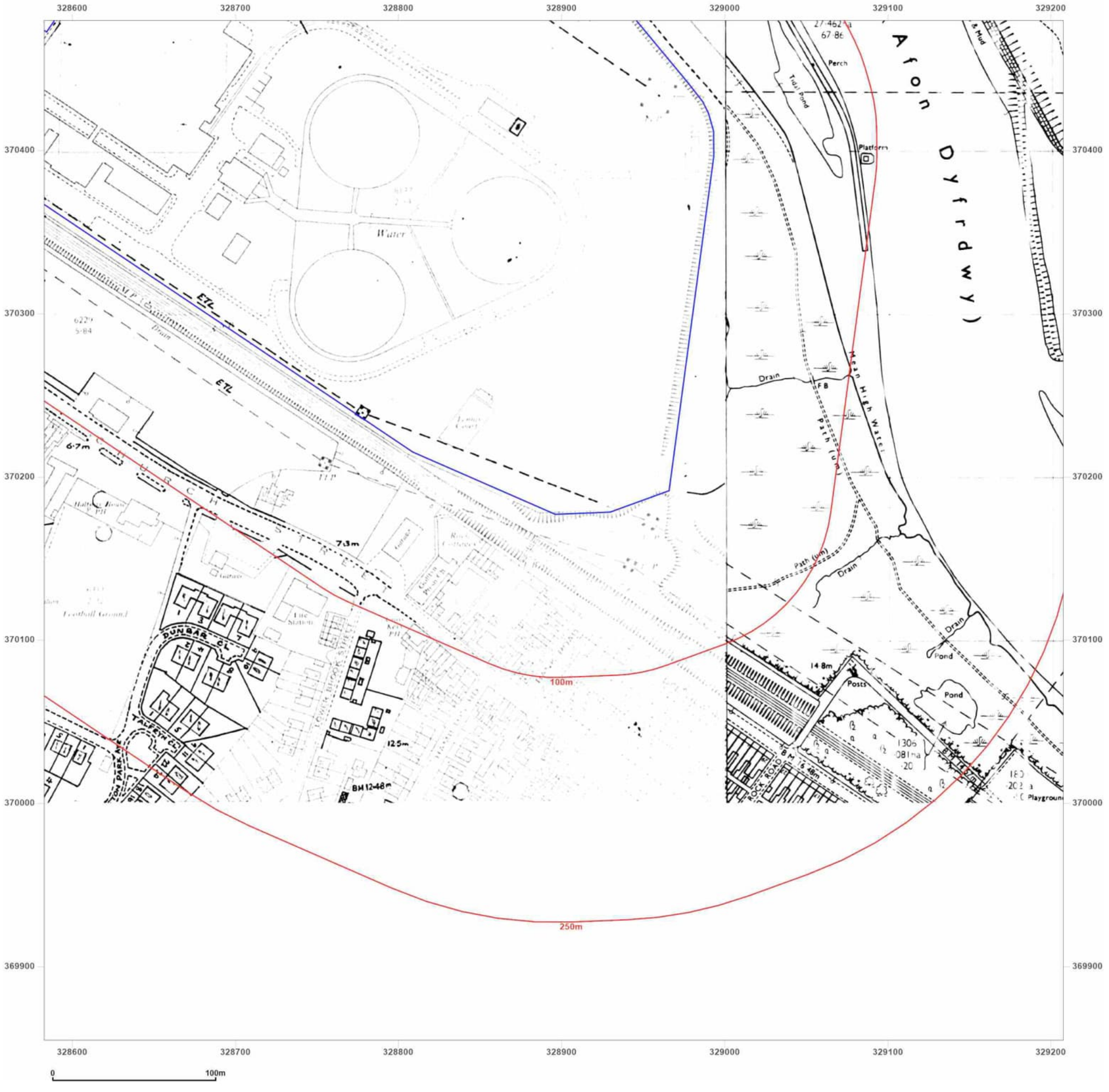
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Site Details:

Connors Quay Updated

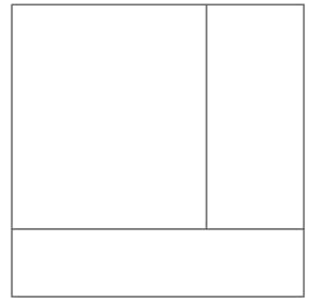
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: **1978-1982**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1969

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



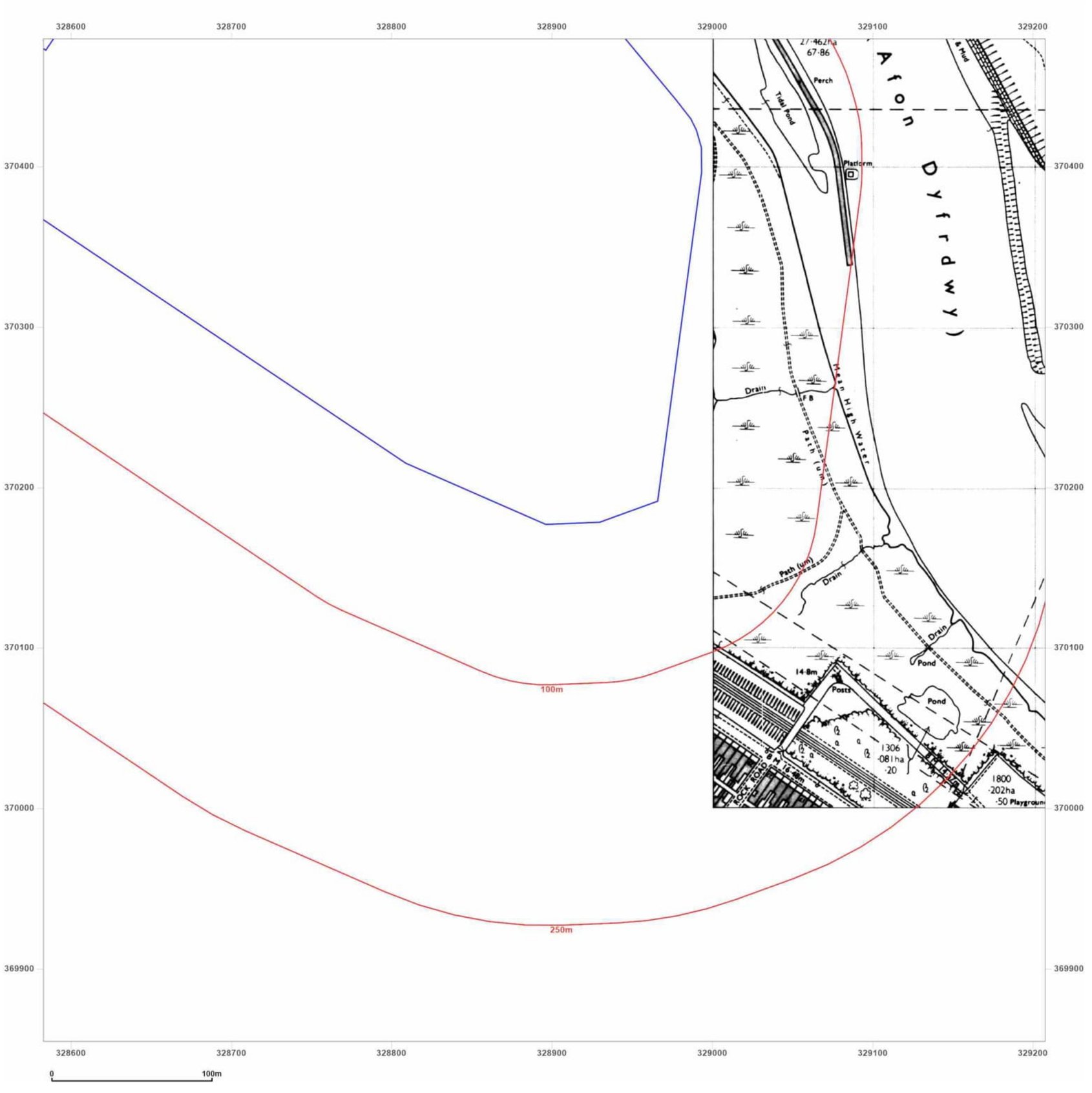
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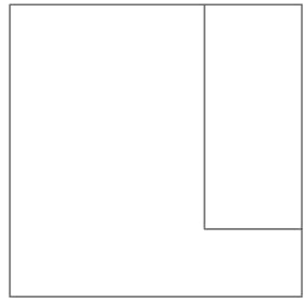
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: **1988**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959



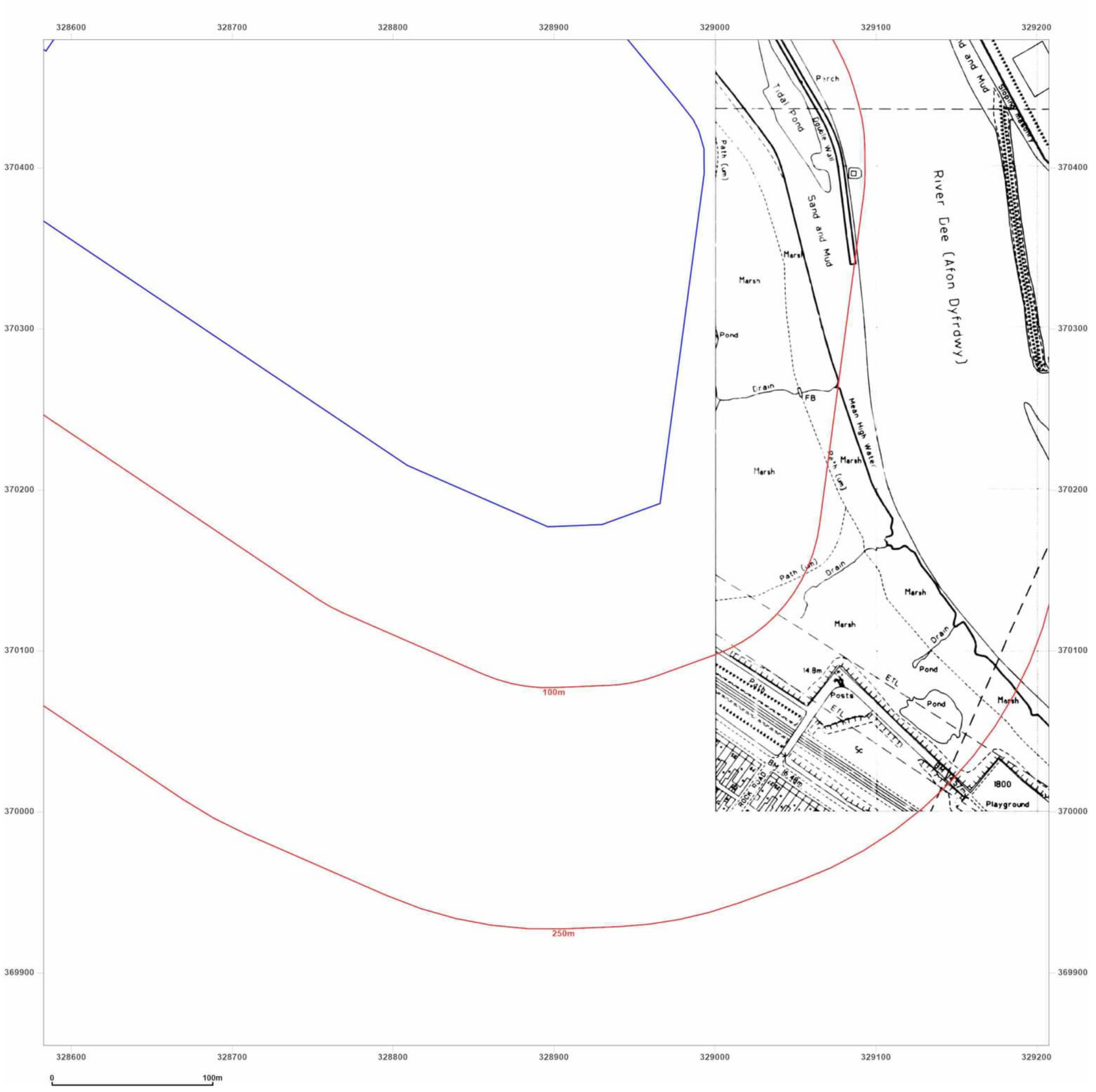
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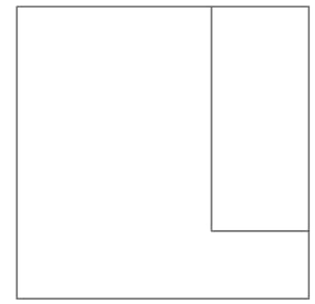
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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



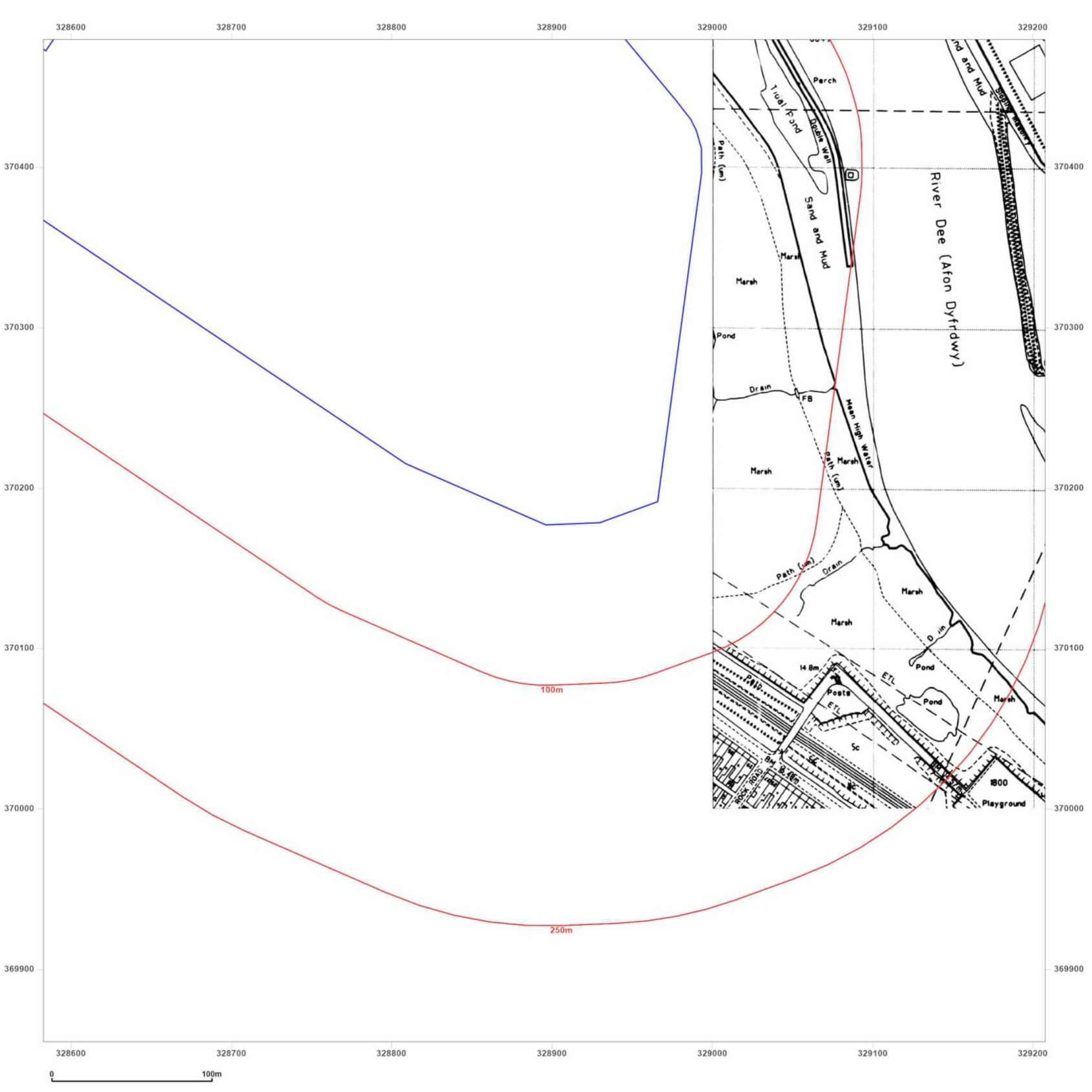
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Production date: 07 March 2024

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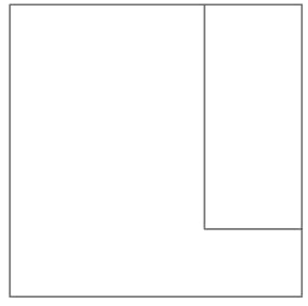
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Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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



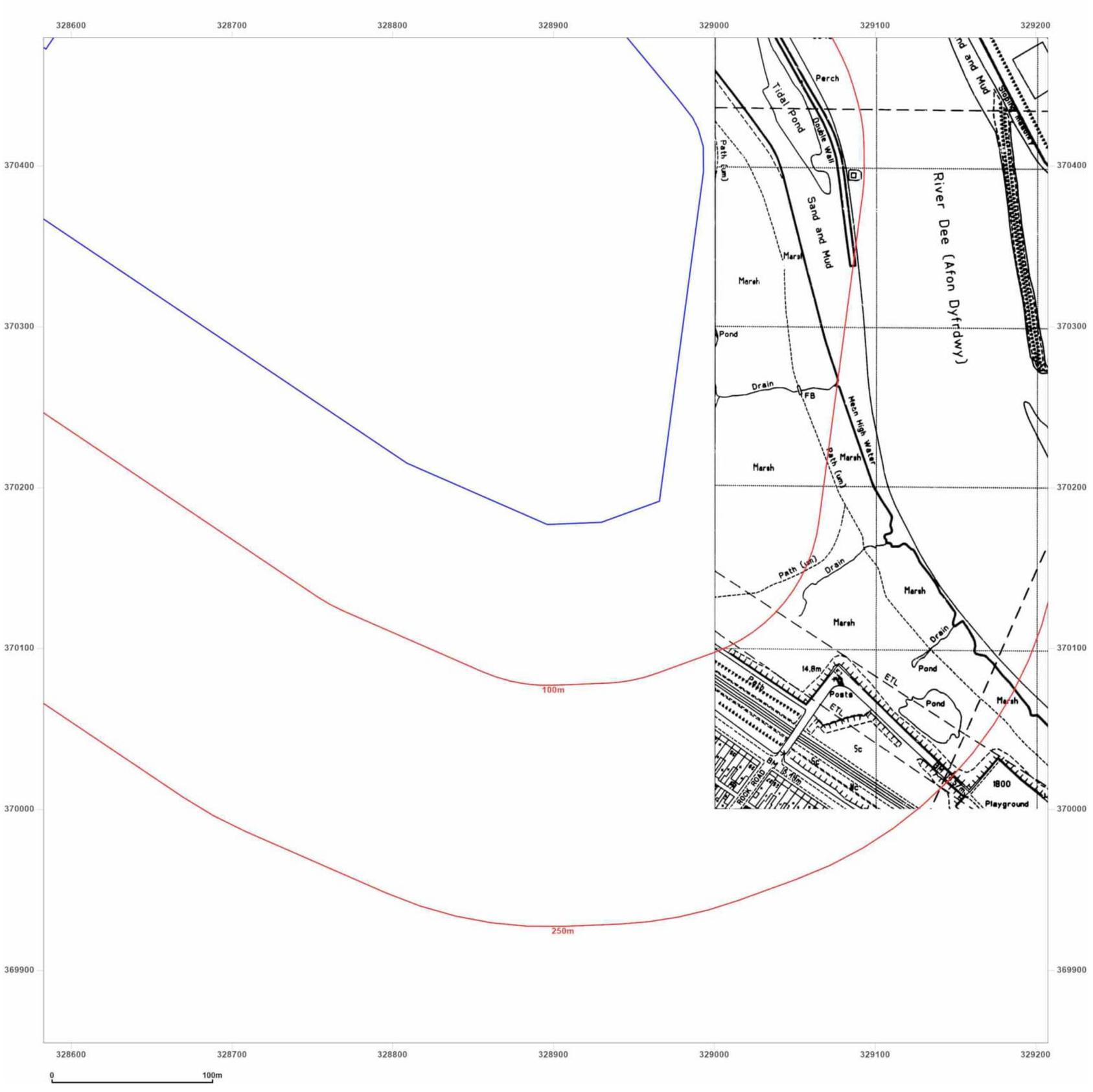
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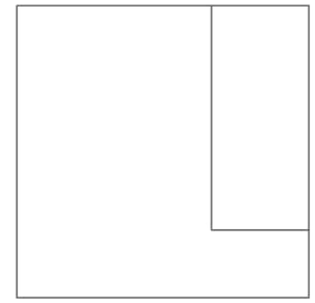
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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



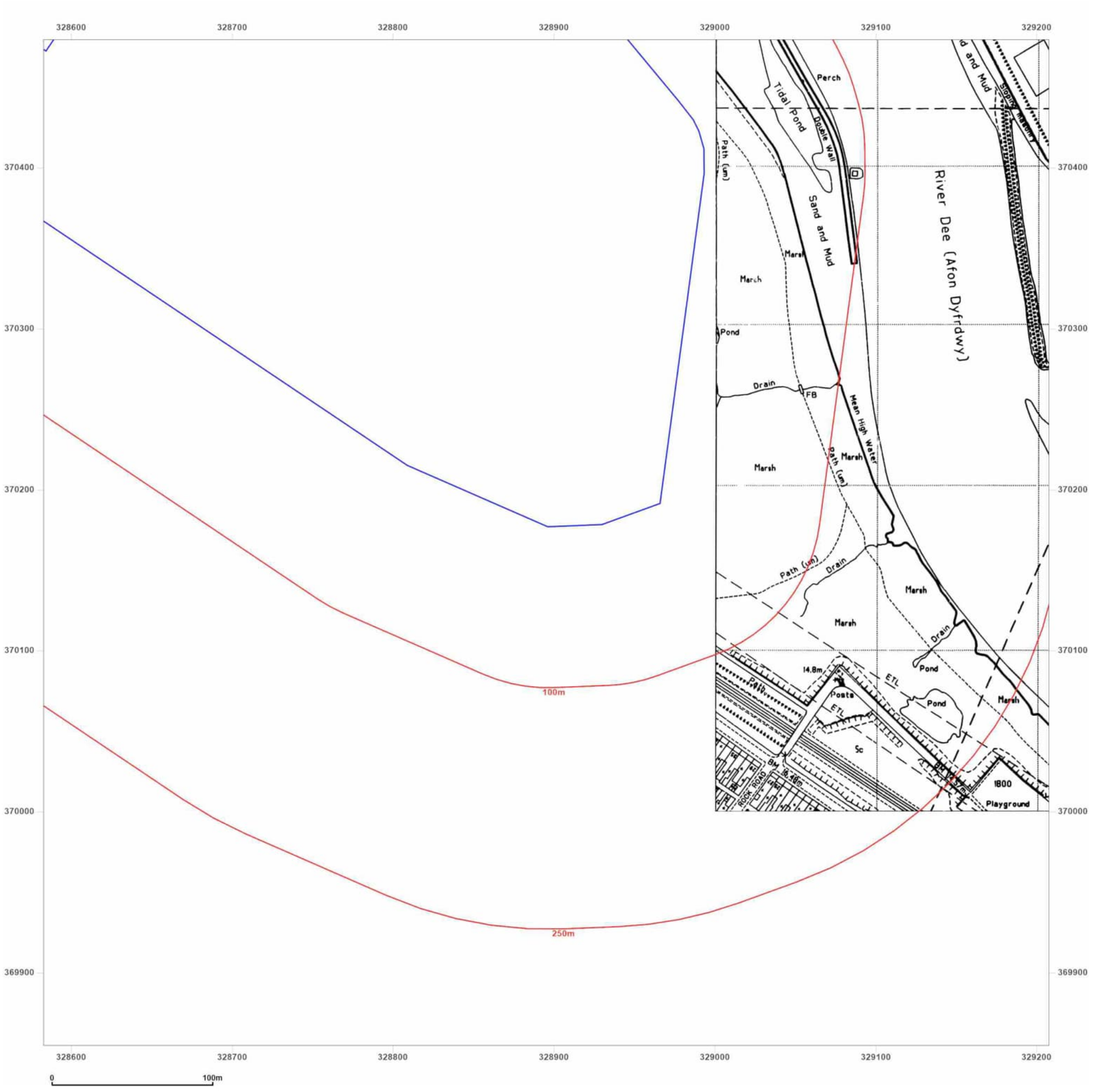
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Site Details:

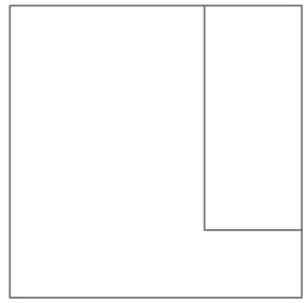
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_1
Grid Ref: 328895, 370167

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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



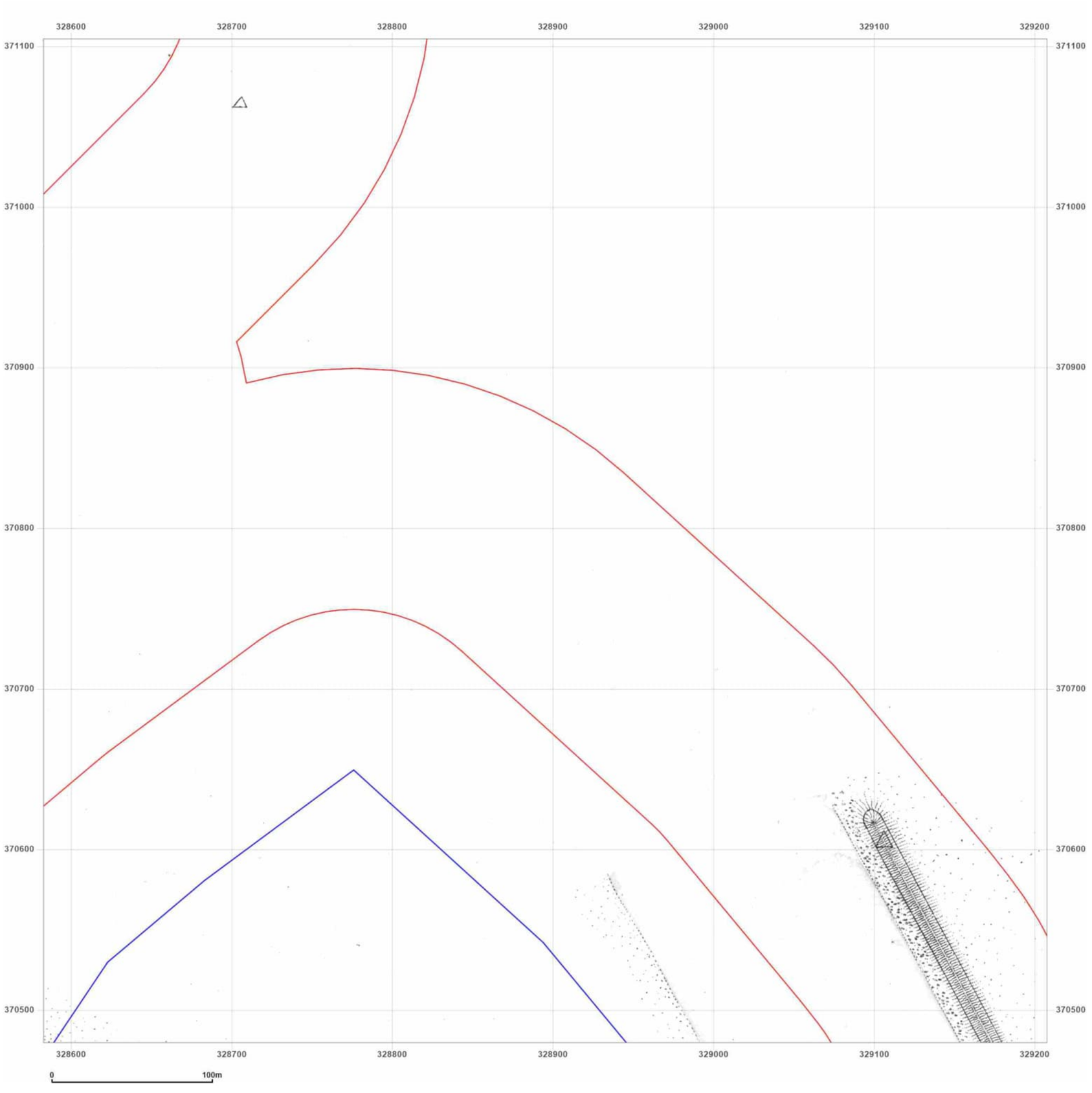
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: County Series
Map date: **1870**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

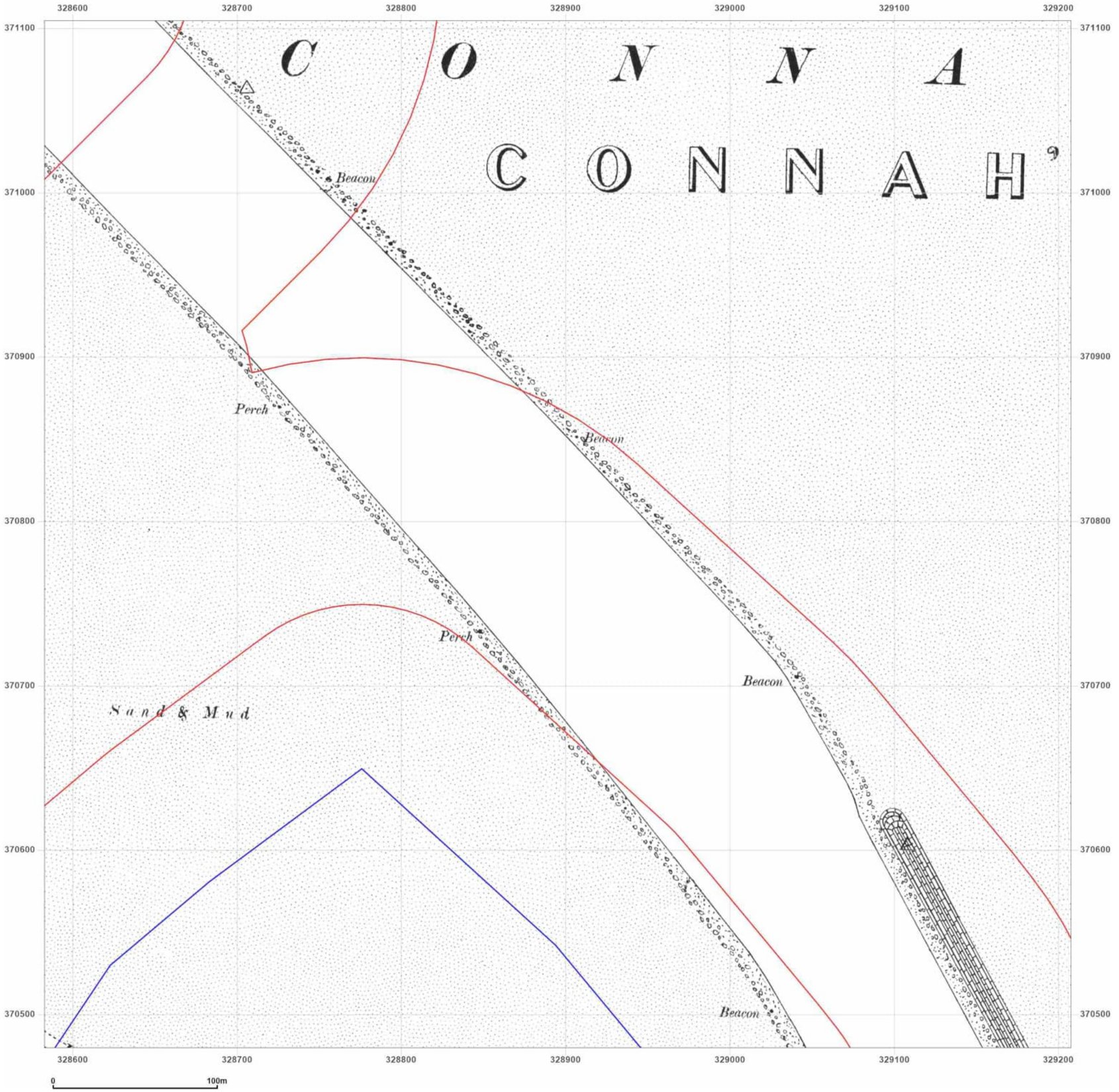
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

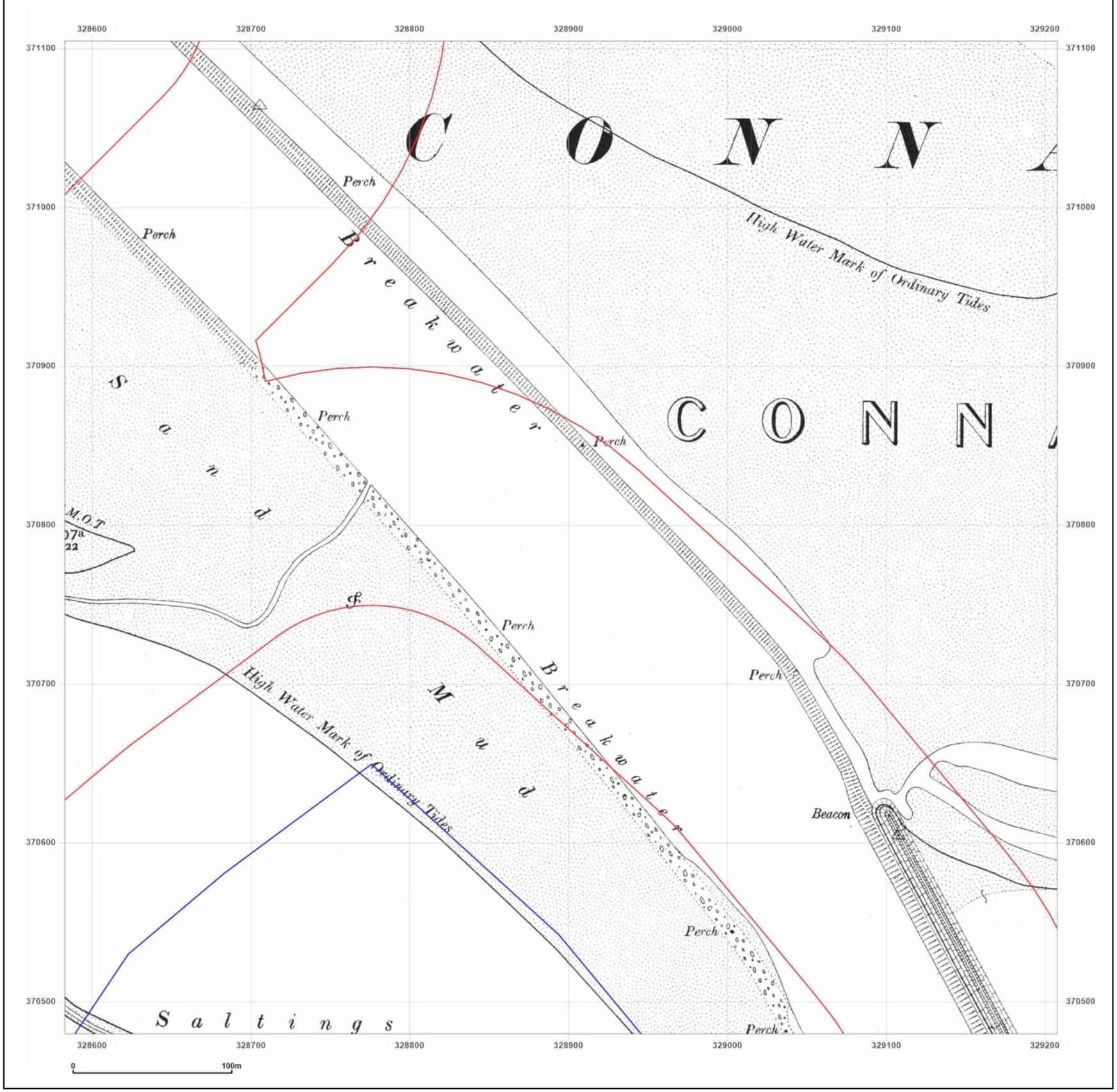
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Production date: 07 March 2024

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

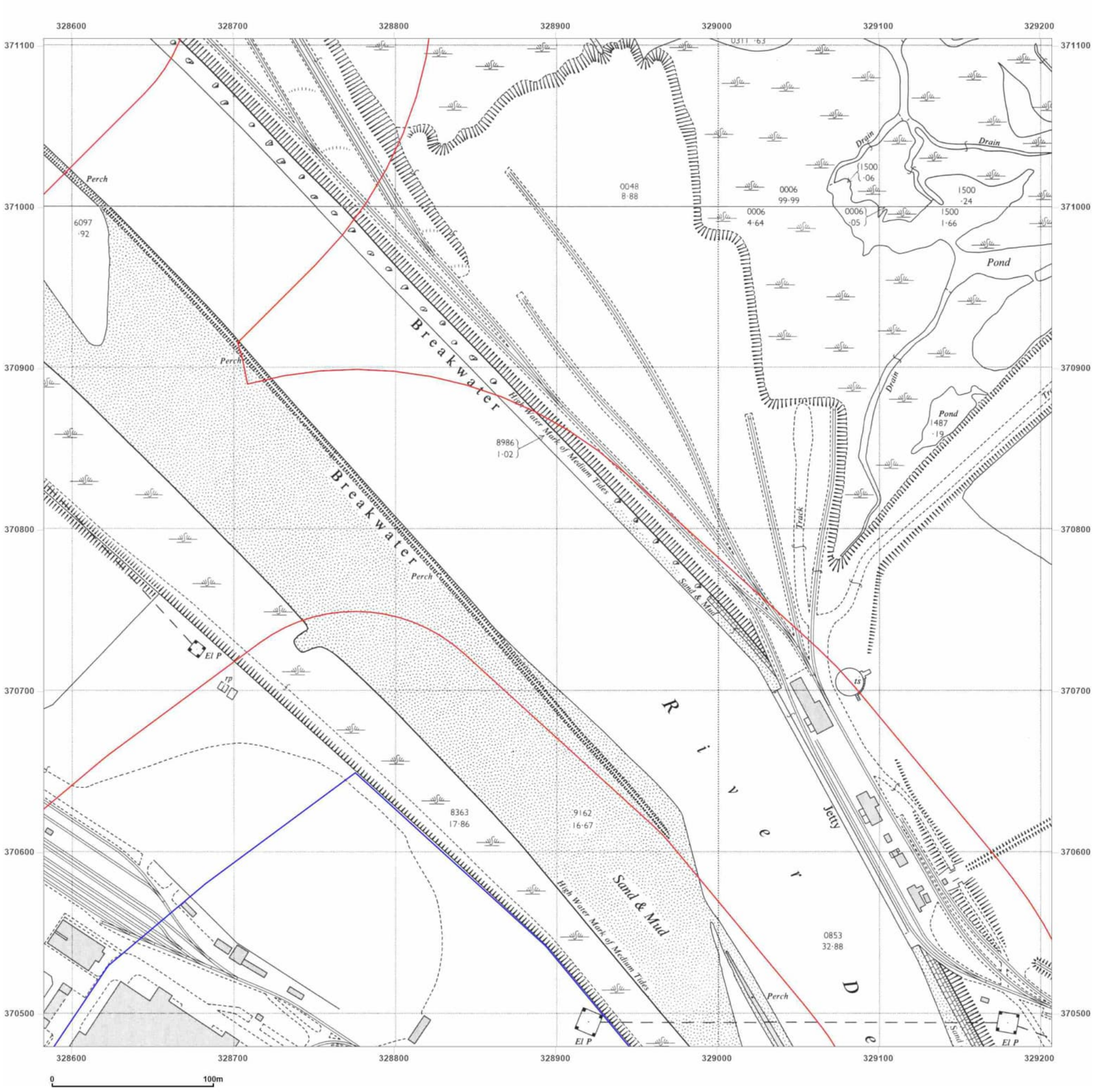
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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1952

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1959

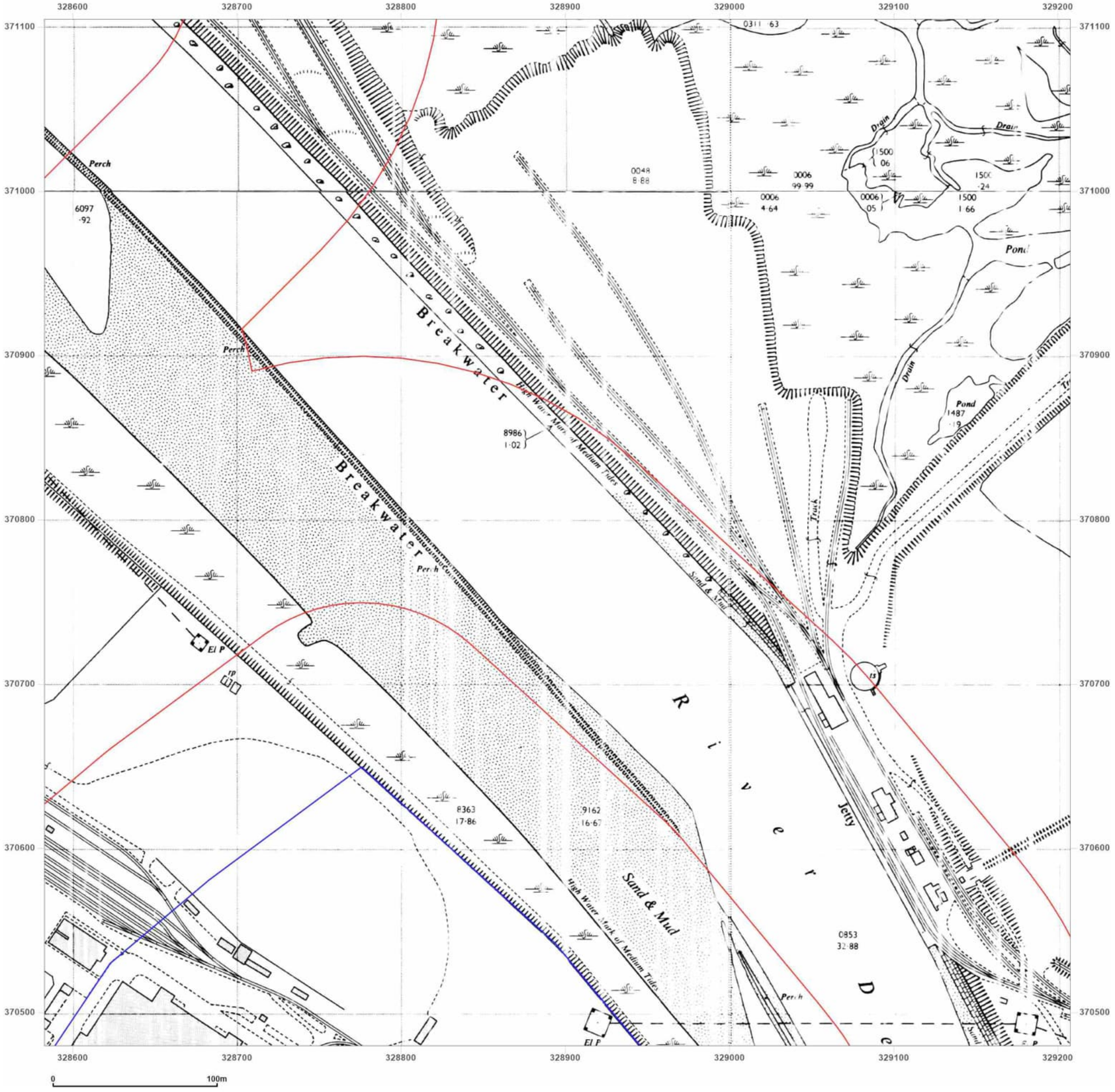
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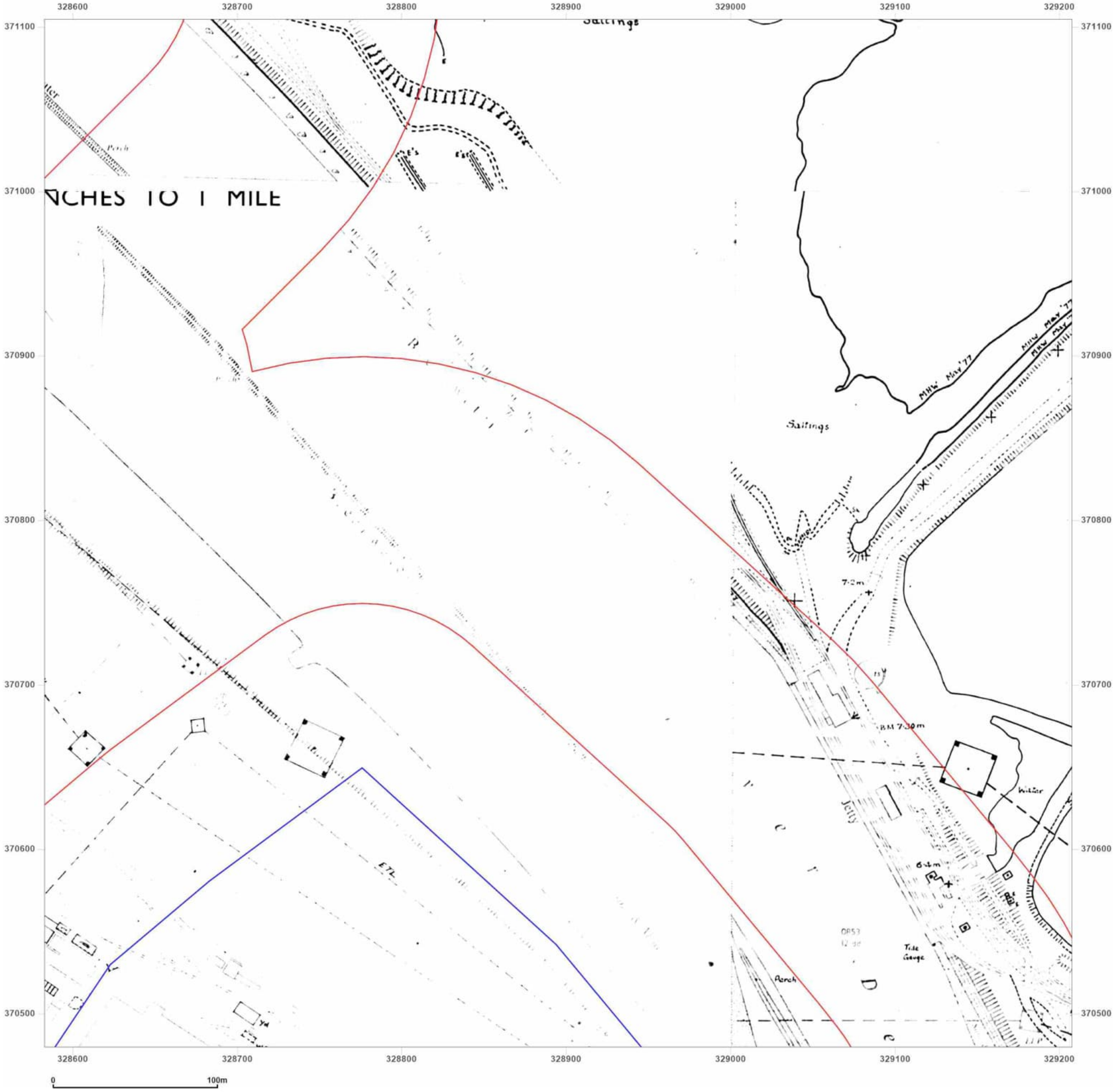
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328600
328700
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370600
370500
Perch
6097
·92
Breakwater
Breakwater
Perch
Perch
Perch



Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: **1976-1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1965

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
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 1978
Levelled 1959

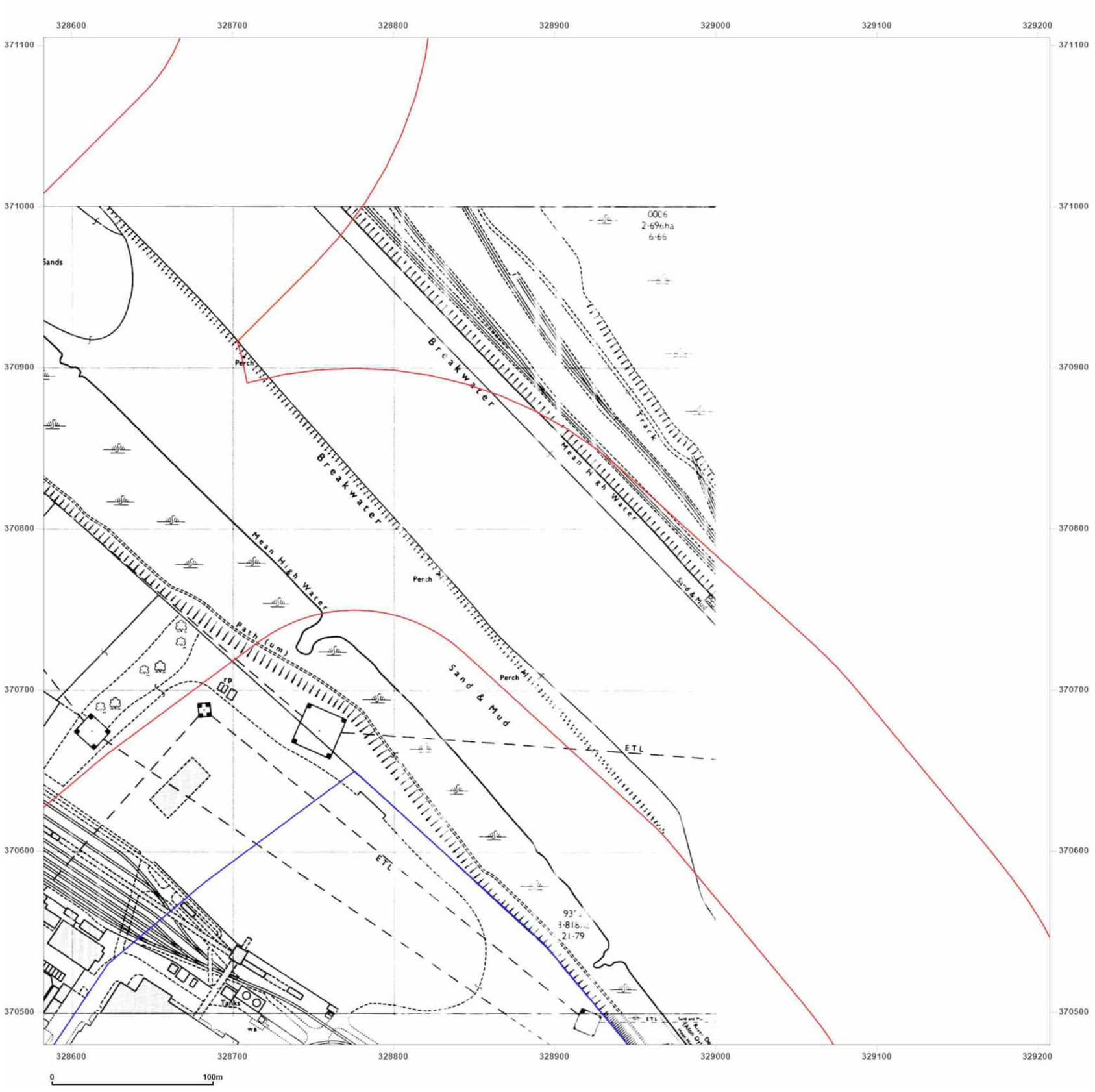
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: 1982
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

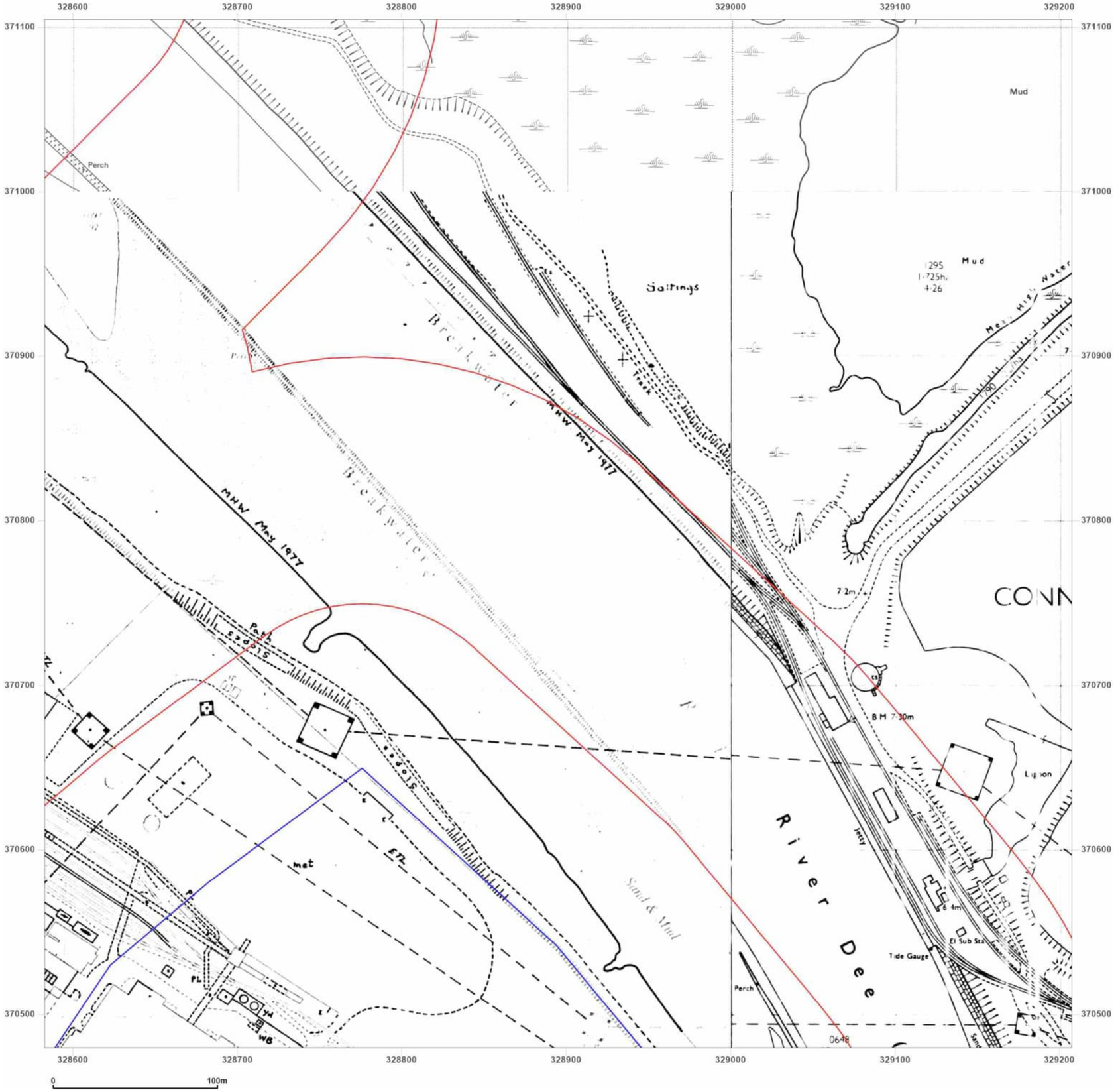
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: **1978-1983**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1965

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1969

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

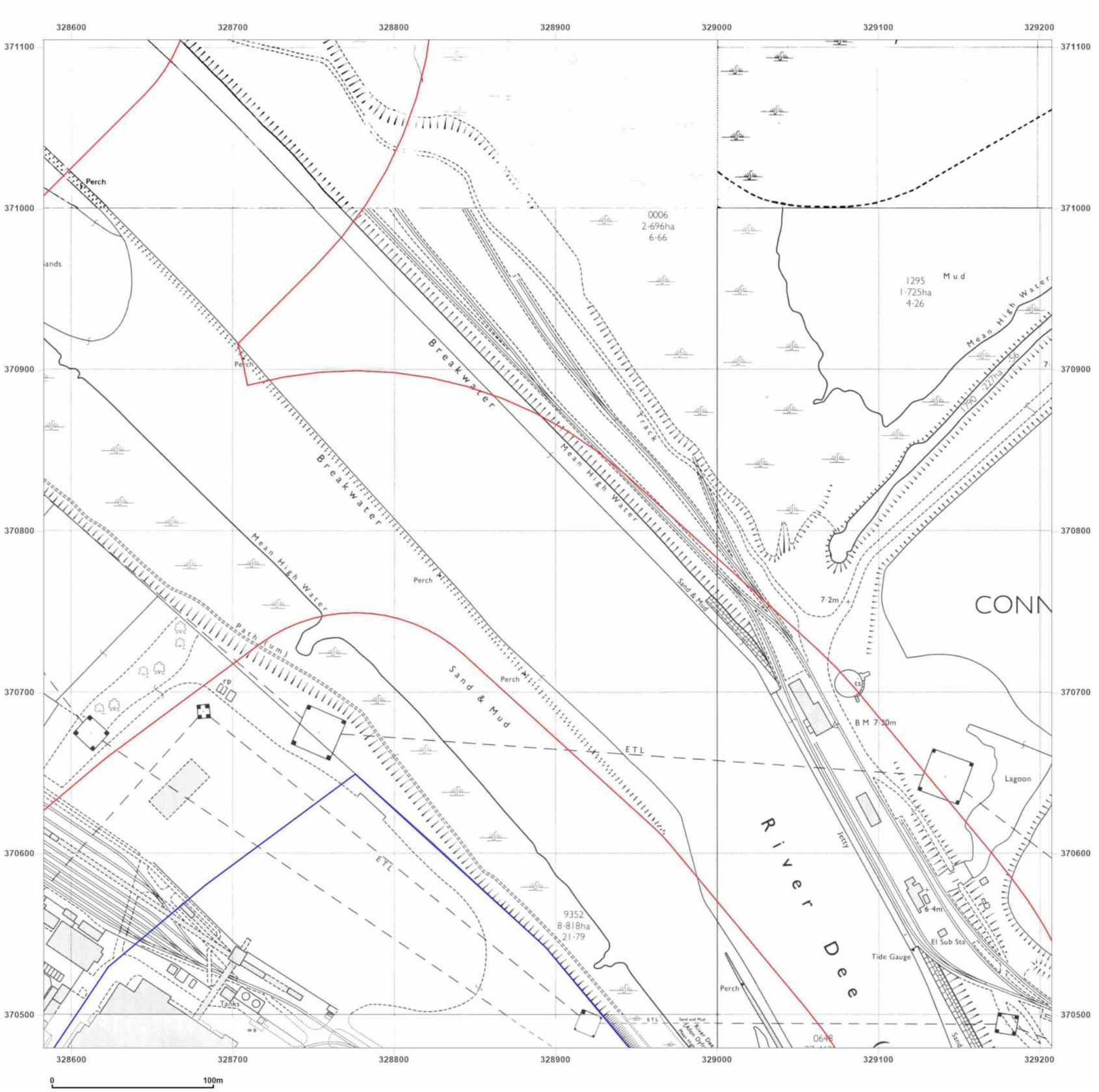
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: **1980-1985**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

Surveyed 1962
Revised 1983
Edition N/A
Copyright 1985
Levelled 1965

Surveyed 1978
Revised 1980
Edition N/A
Copyright 1982
Levelled 1959

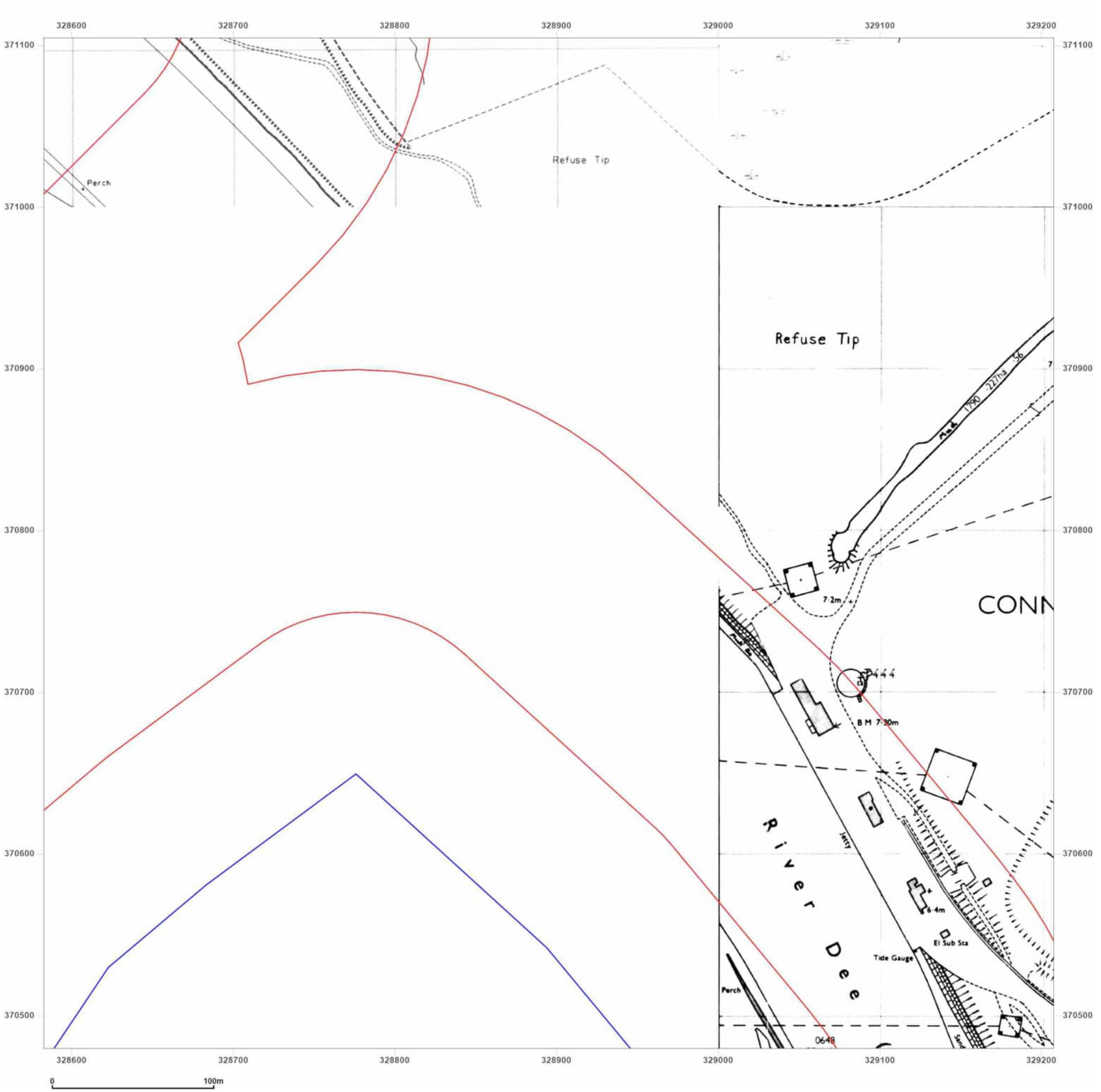
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Connors Quay Updated

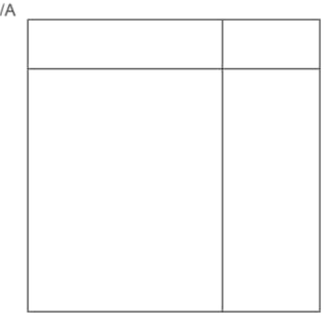
Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: **1988-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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



Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959

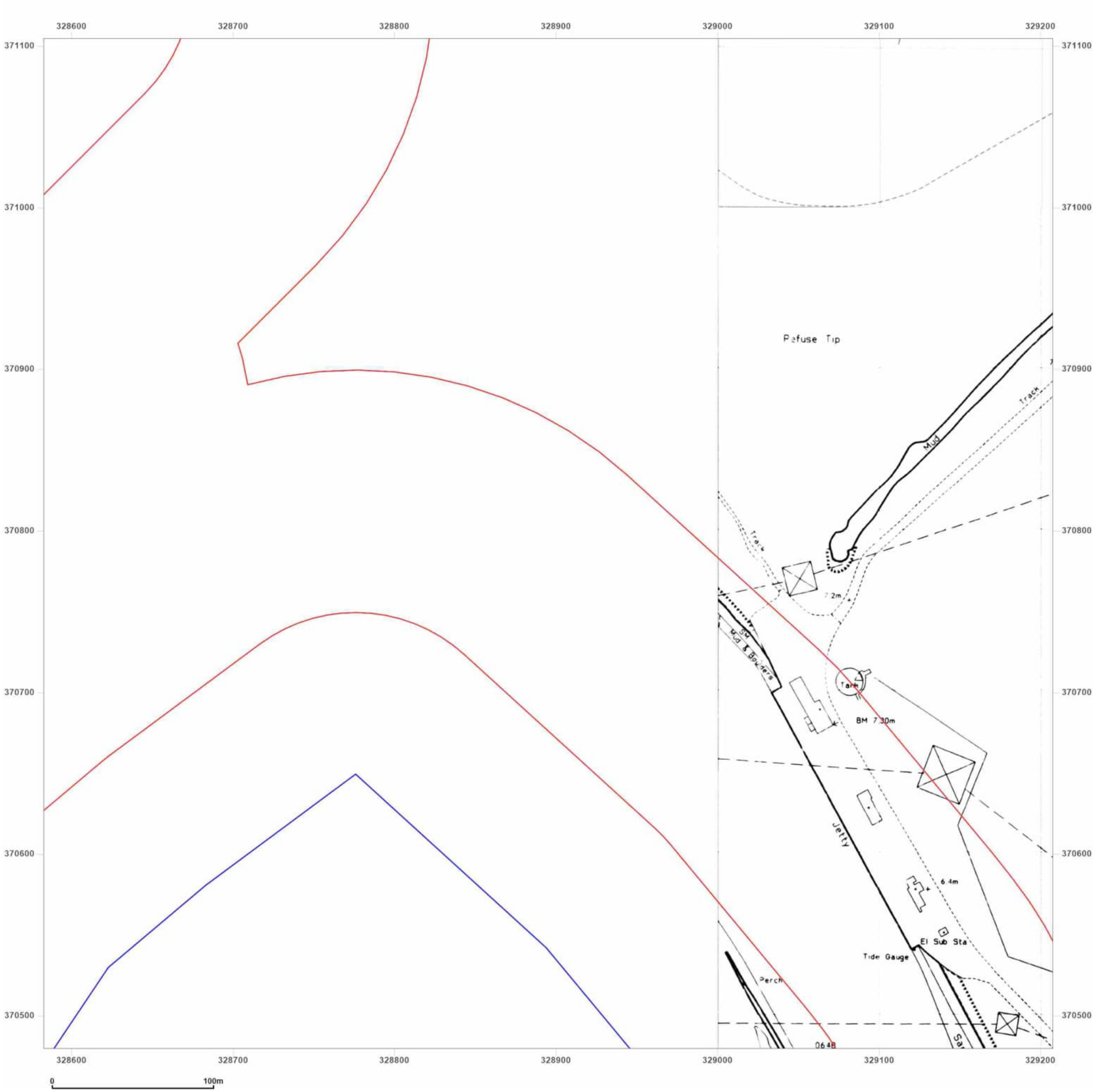
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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

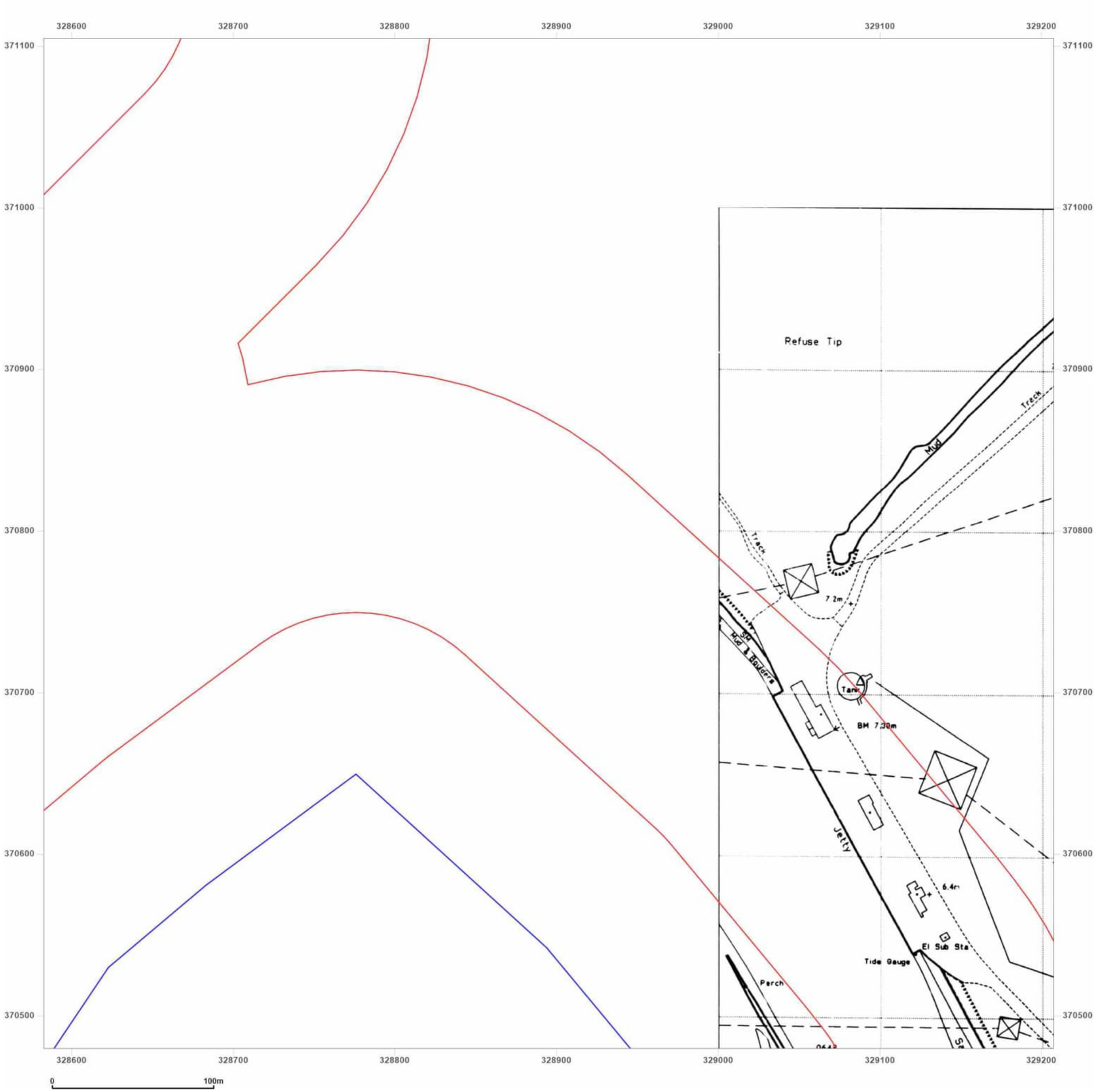
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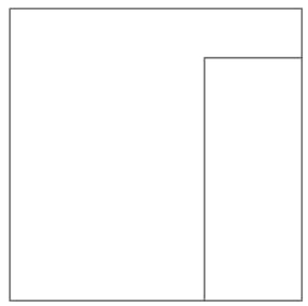
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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

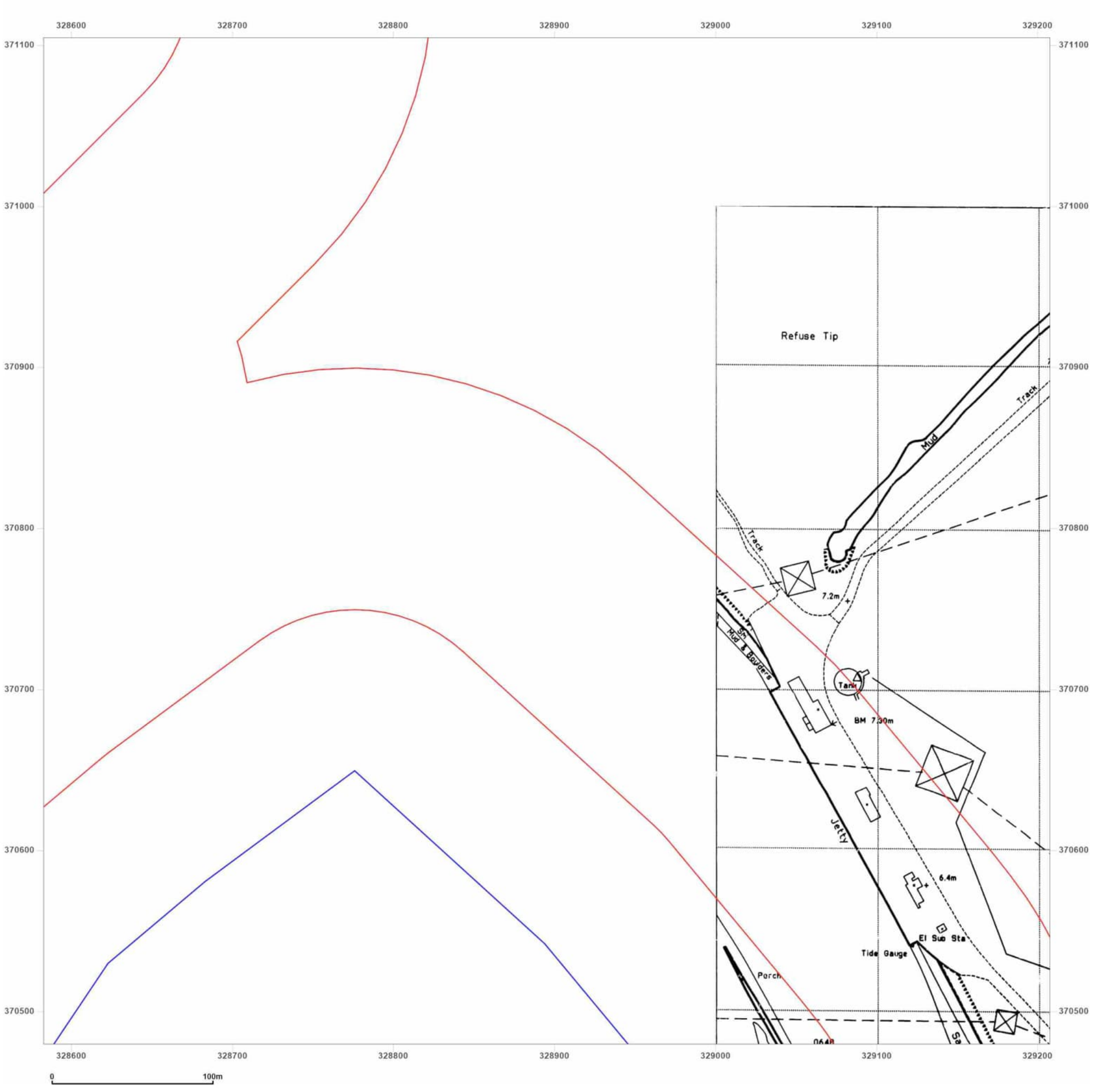
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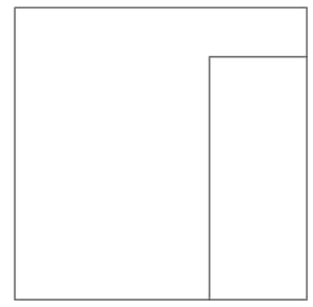
Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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

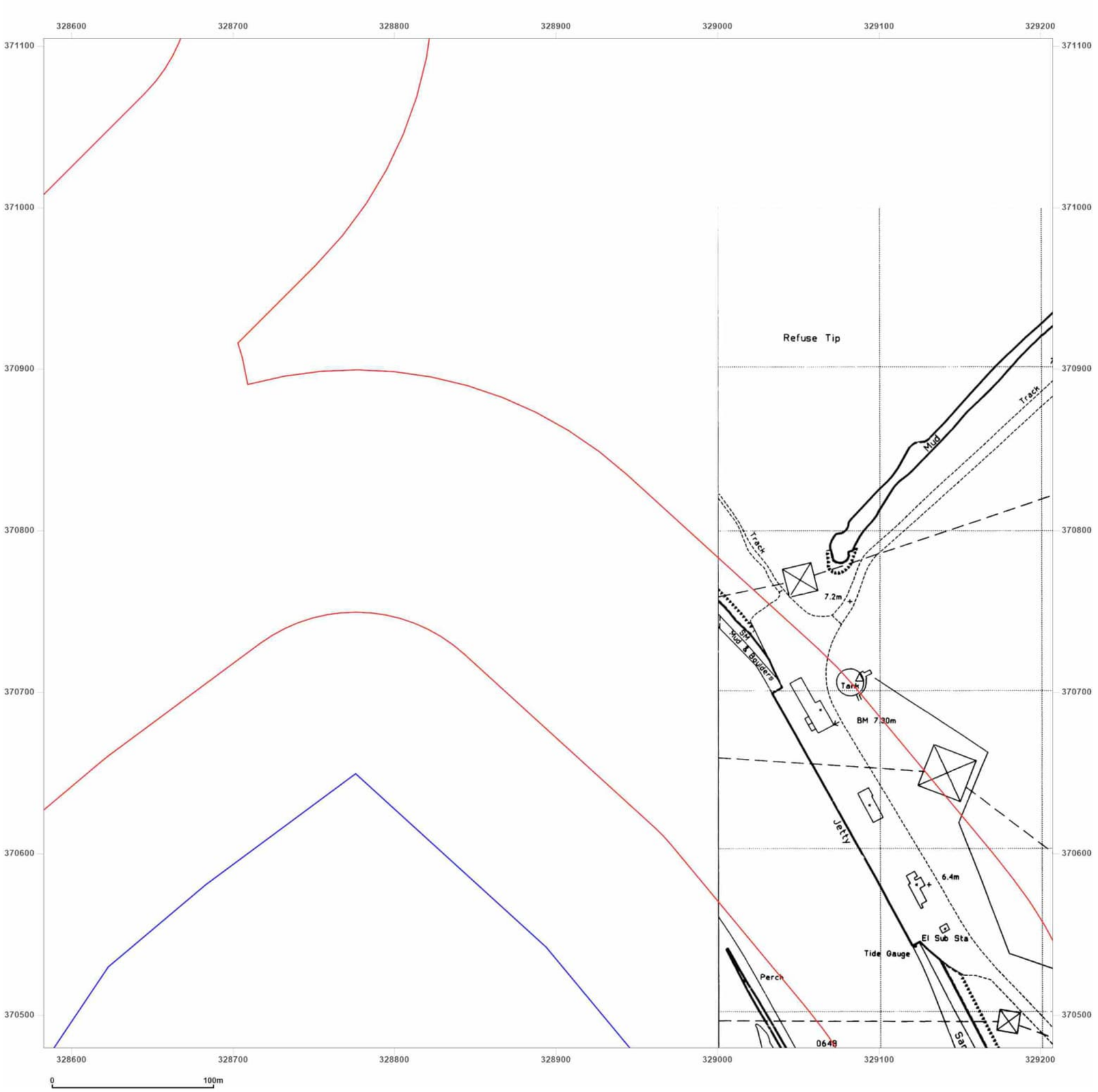
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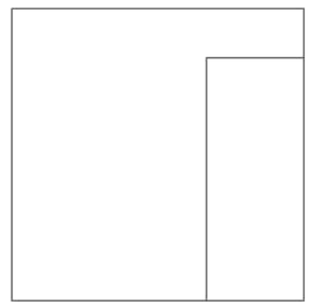
Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_2
Grid Ref: 328895, 370792

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500

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

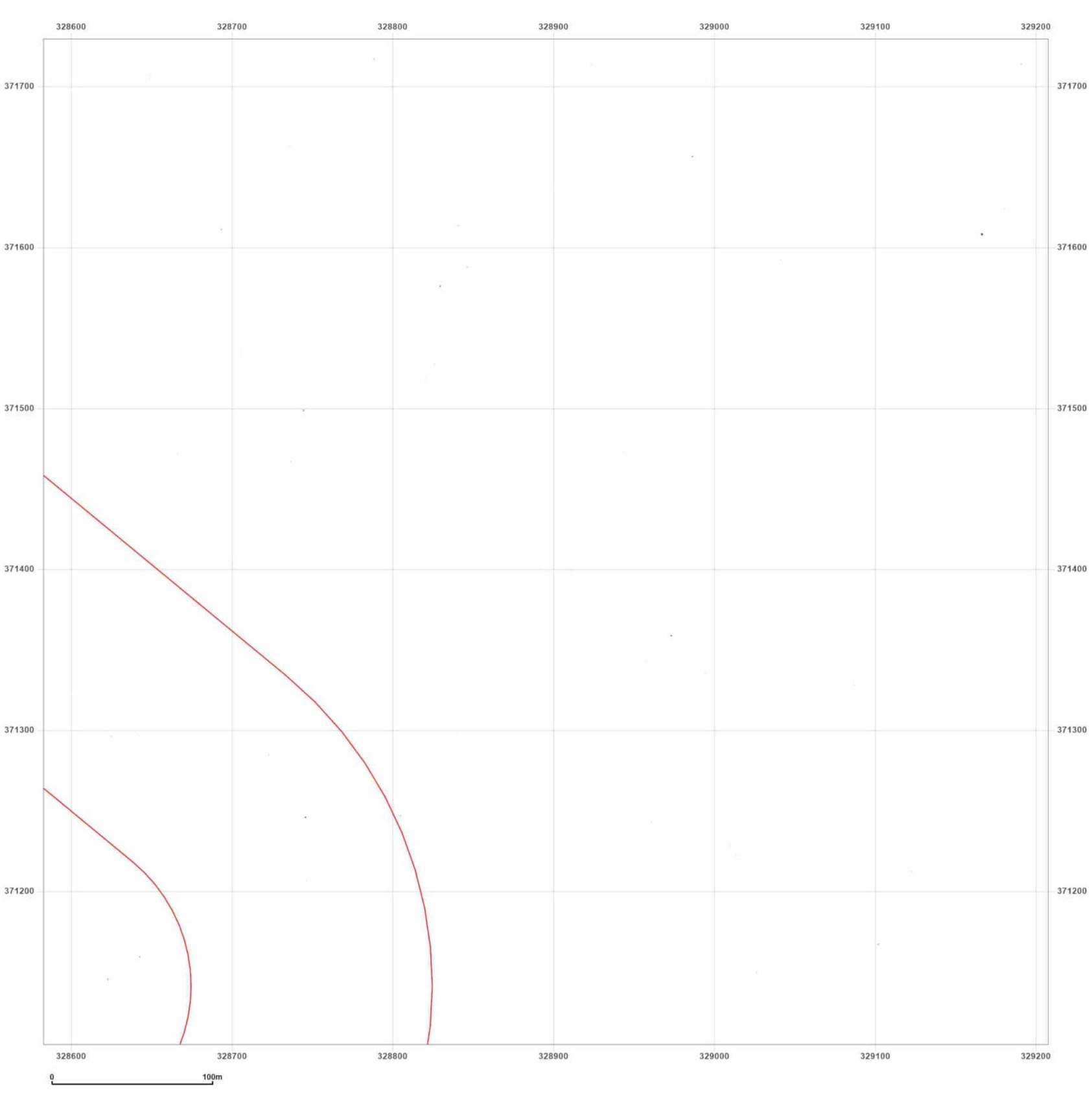
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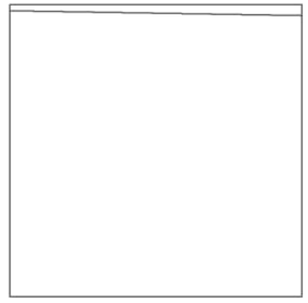
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: County Series
Map date: 1870
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1870
Edition N/A
Copyright N/A
Levelled N/A

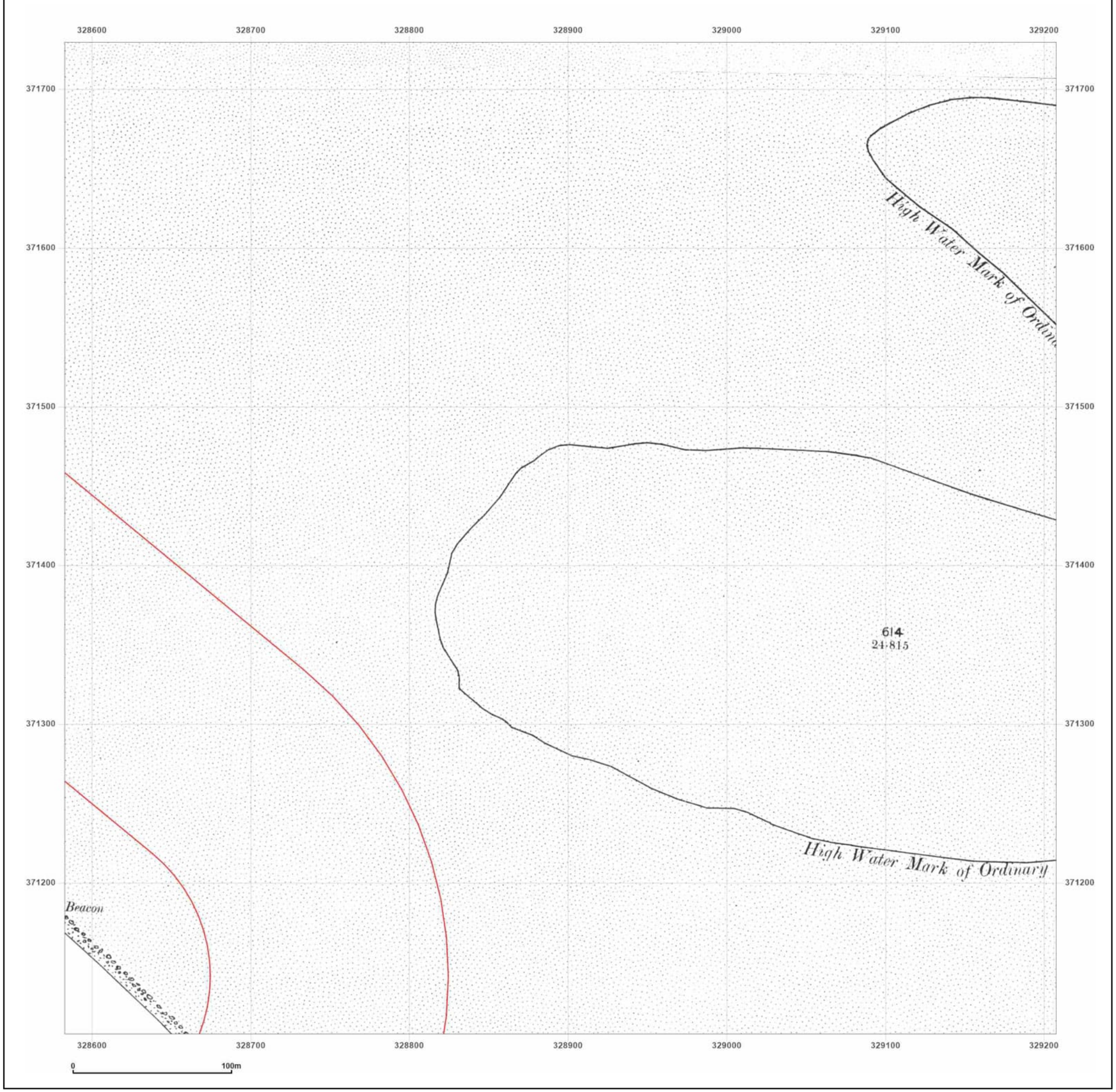
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Production date: 07 March 2024

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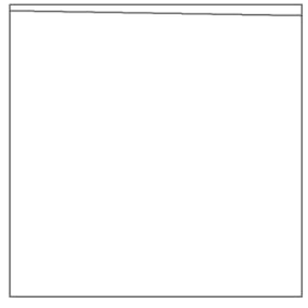
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

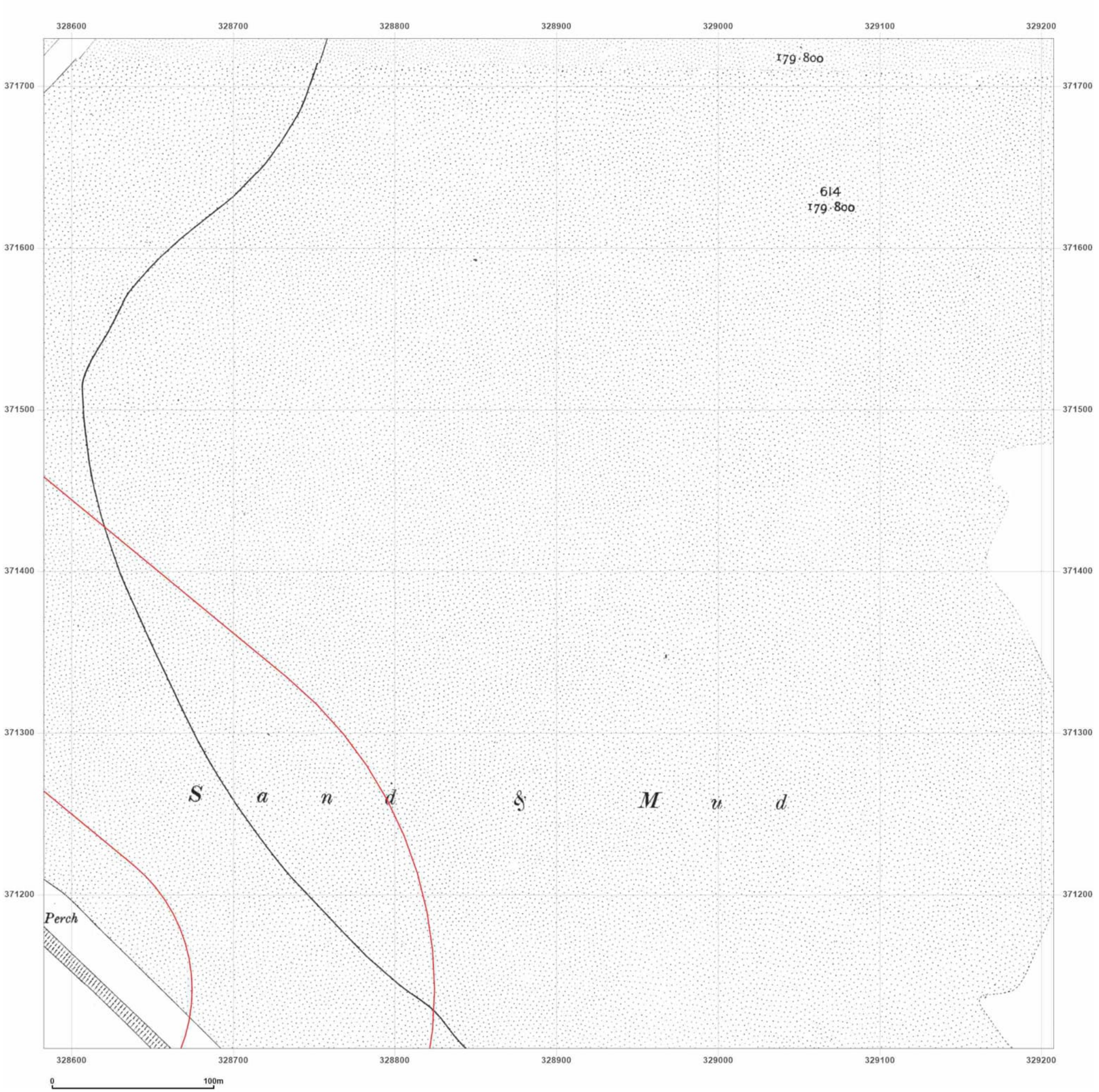
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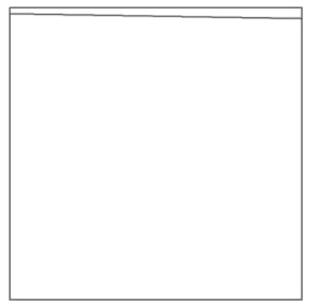
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: County Series
Map date: **1912**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

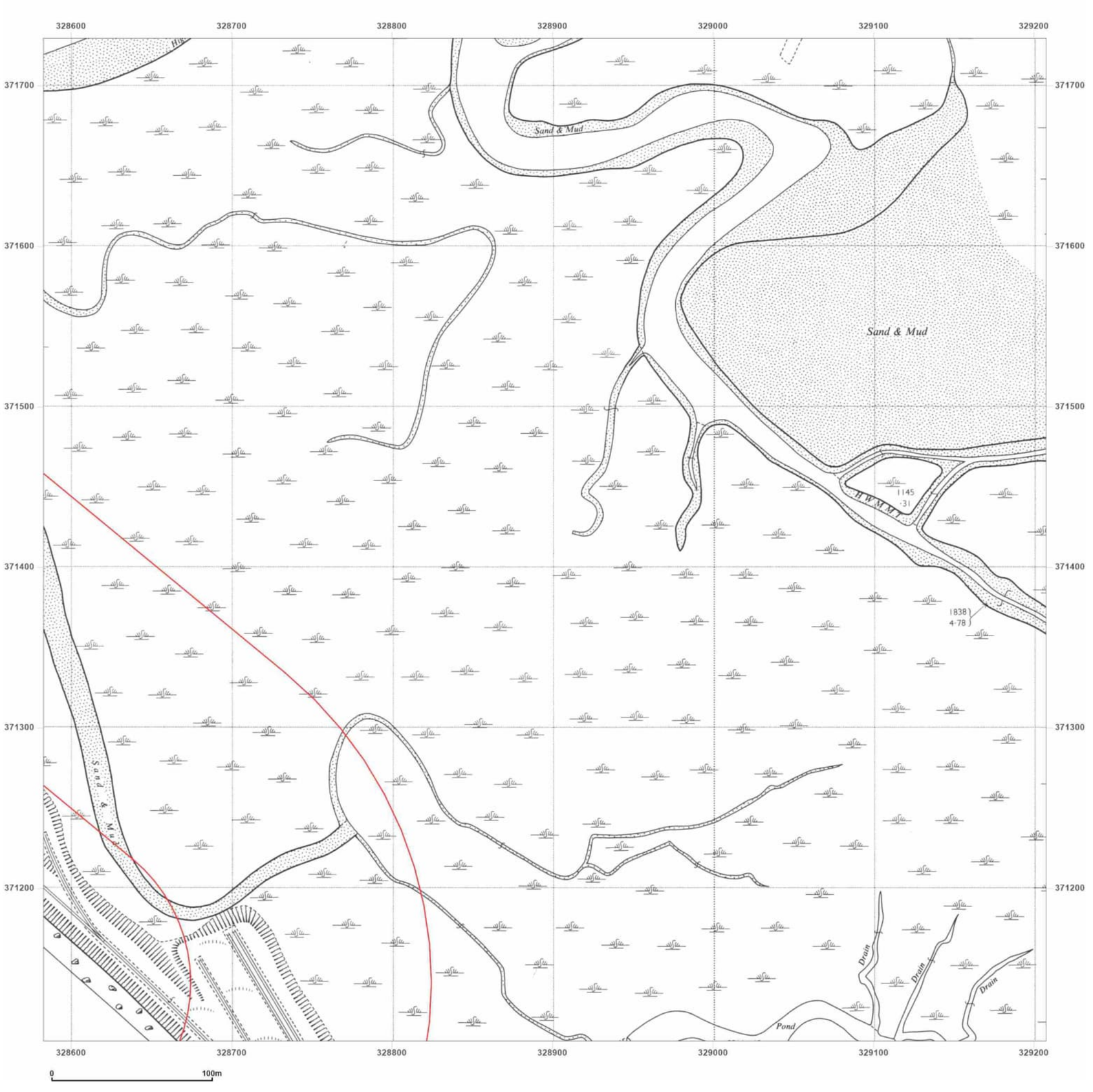
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1952

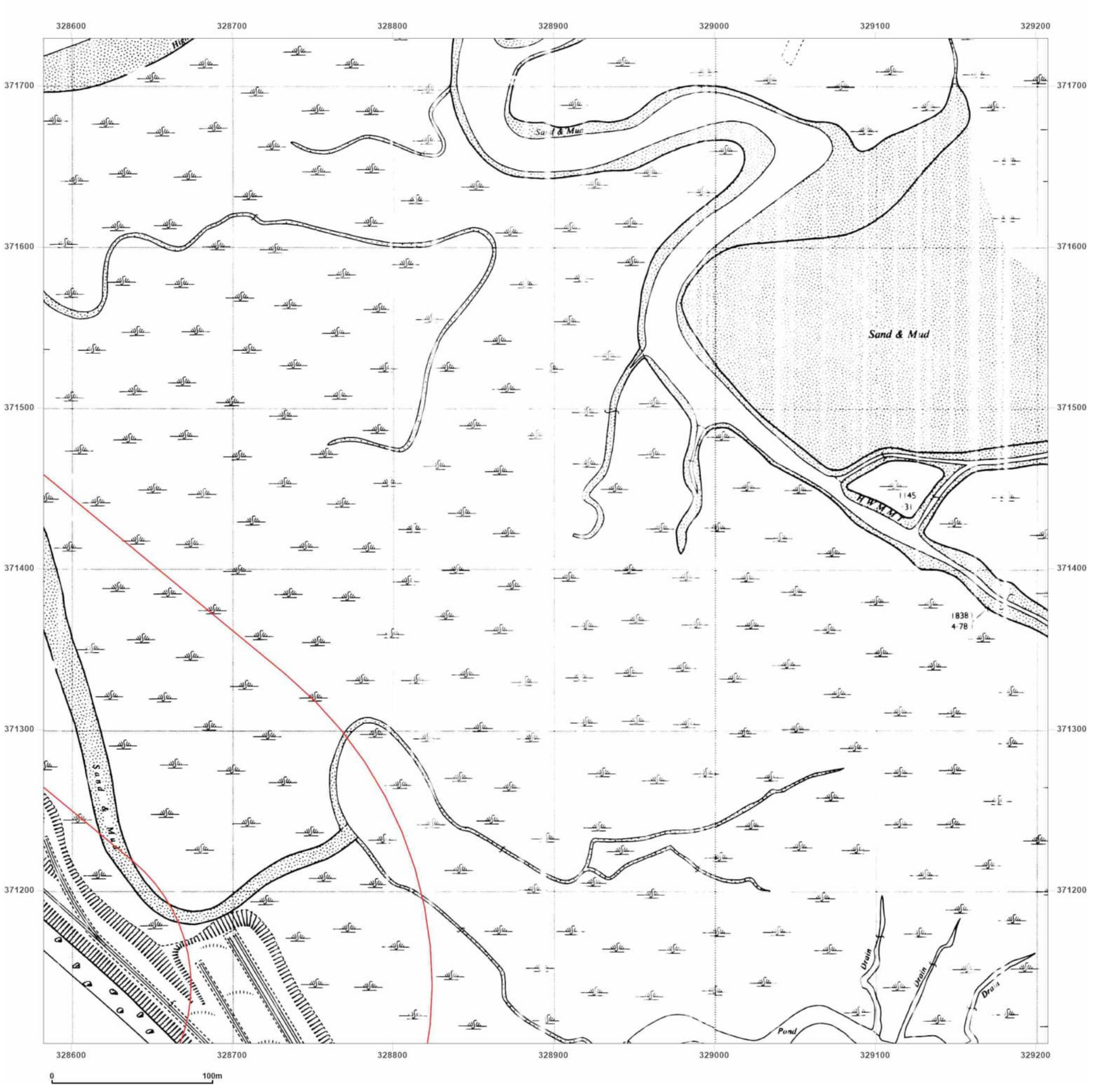
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: 1964
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

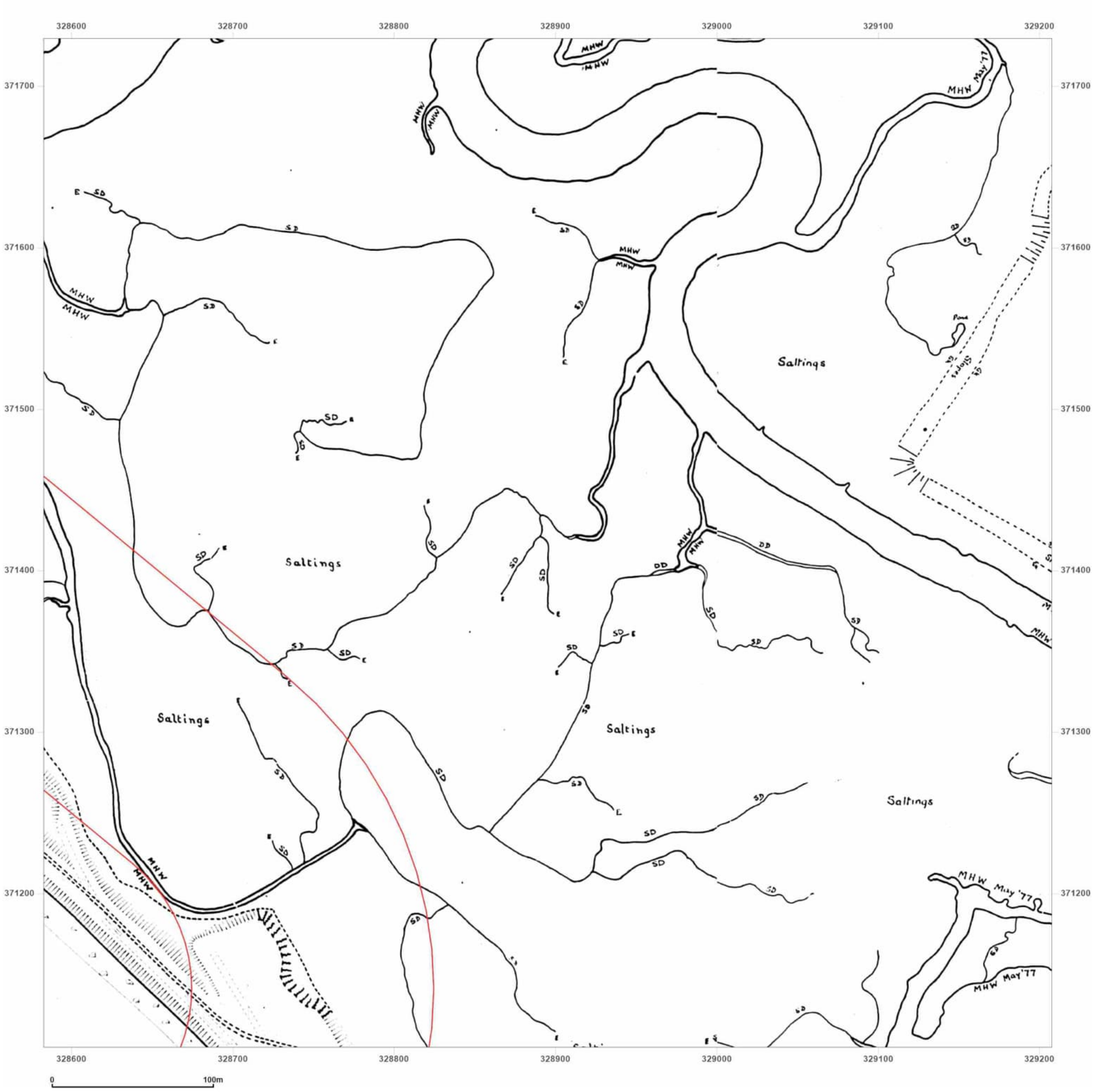
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: **1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1965

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

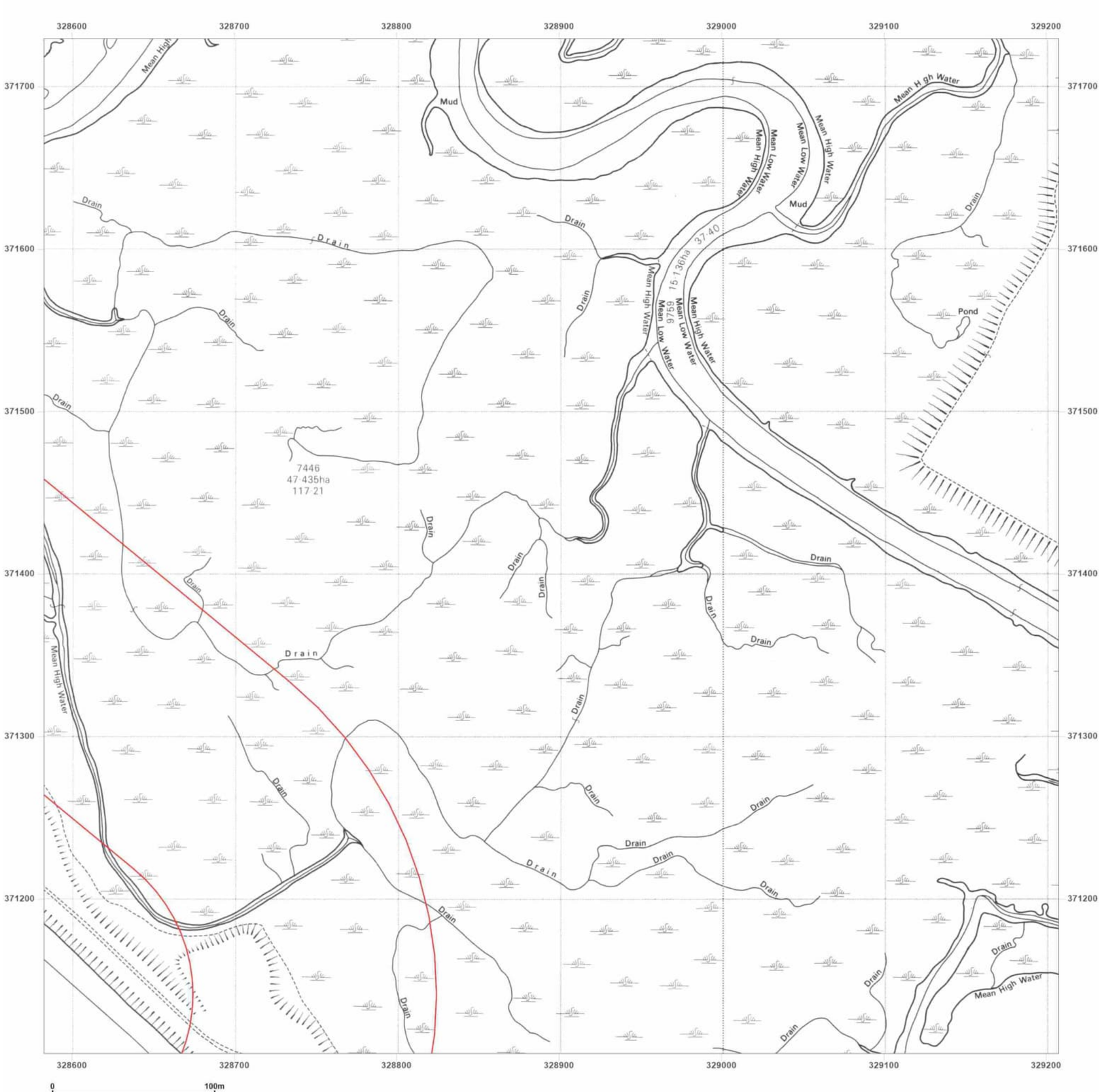
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: **1983**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1965

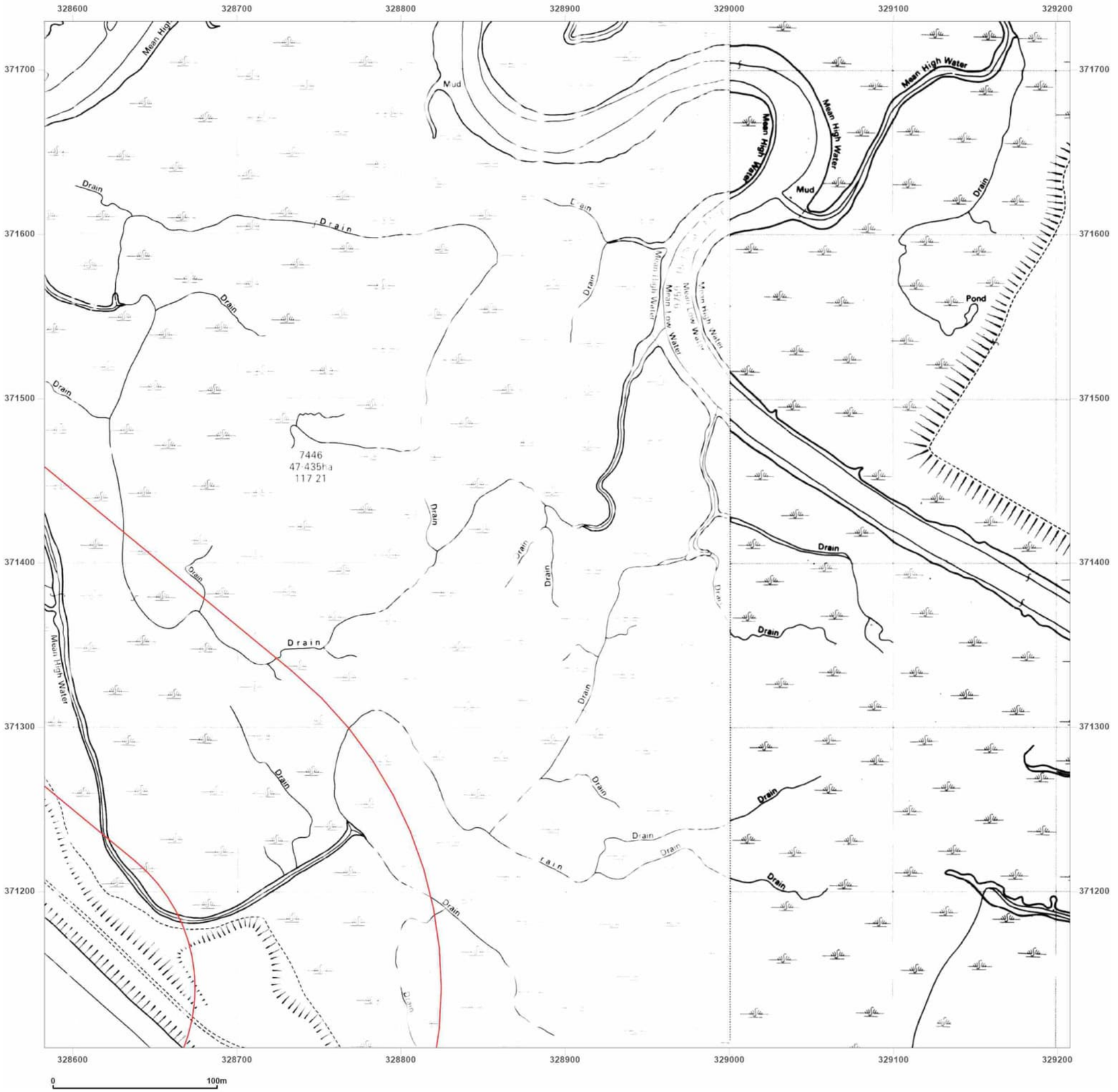
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: **1985**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A	Surveyed 1962
Revised N/A	Revised 1983
Edition N/A	Edition N/A
Copyright N/A	Copyright 1985
Levelled N/A	Levelled 1965

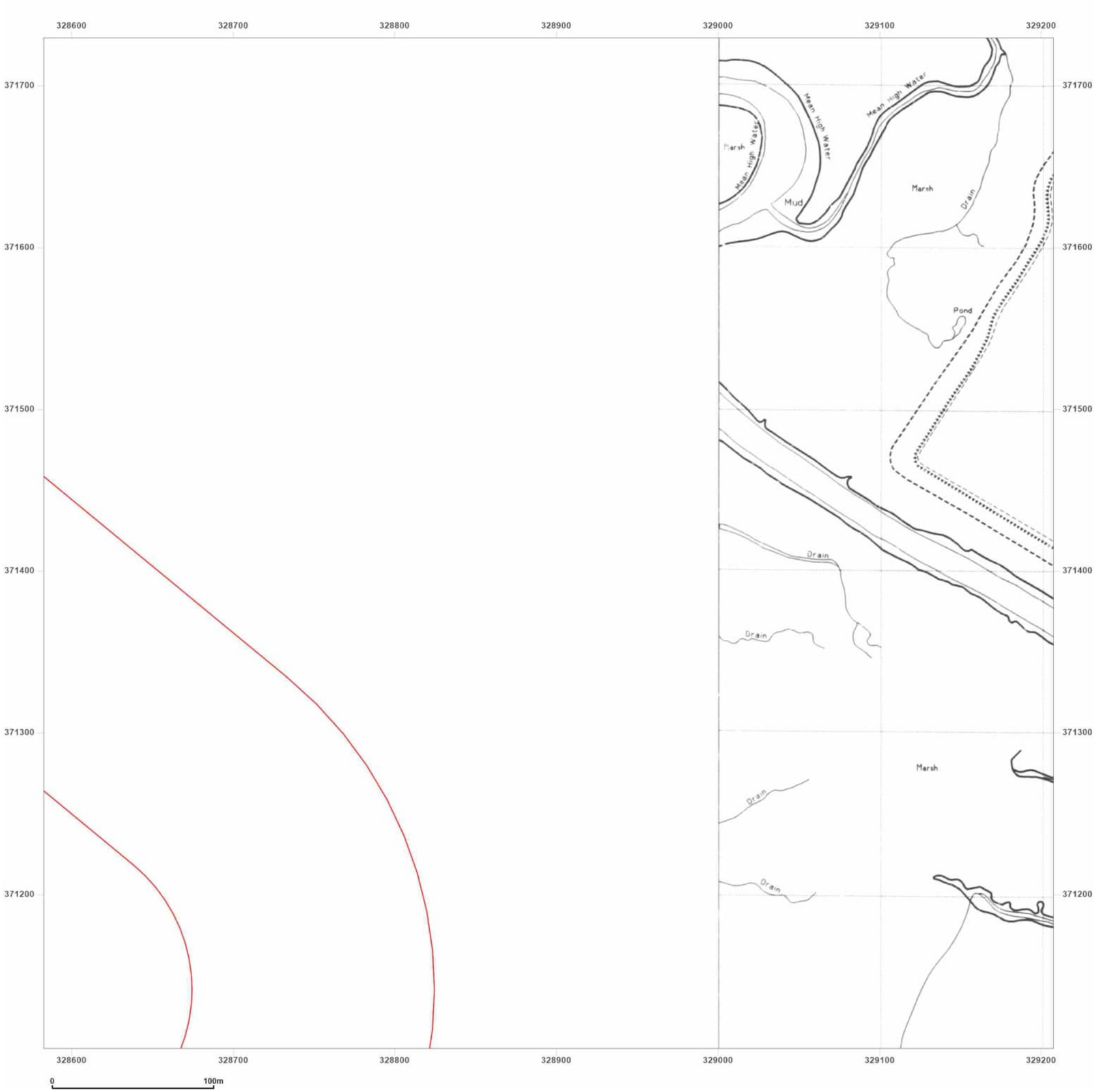
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

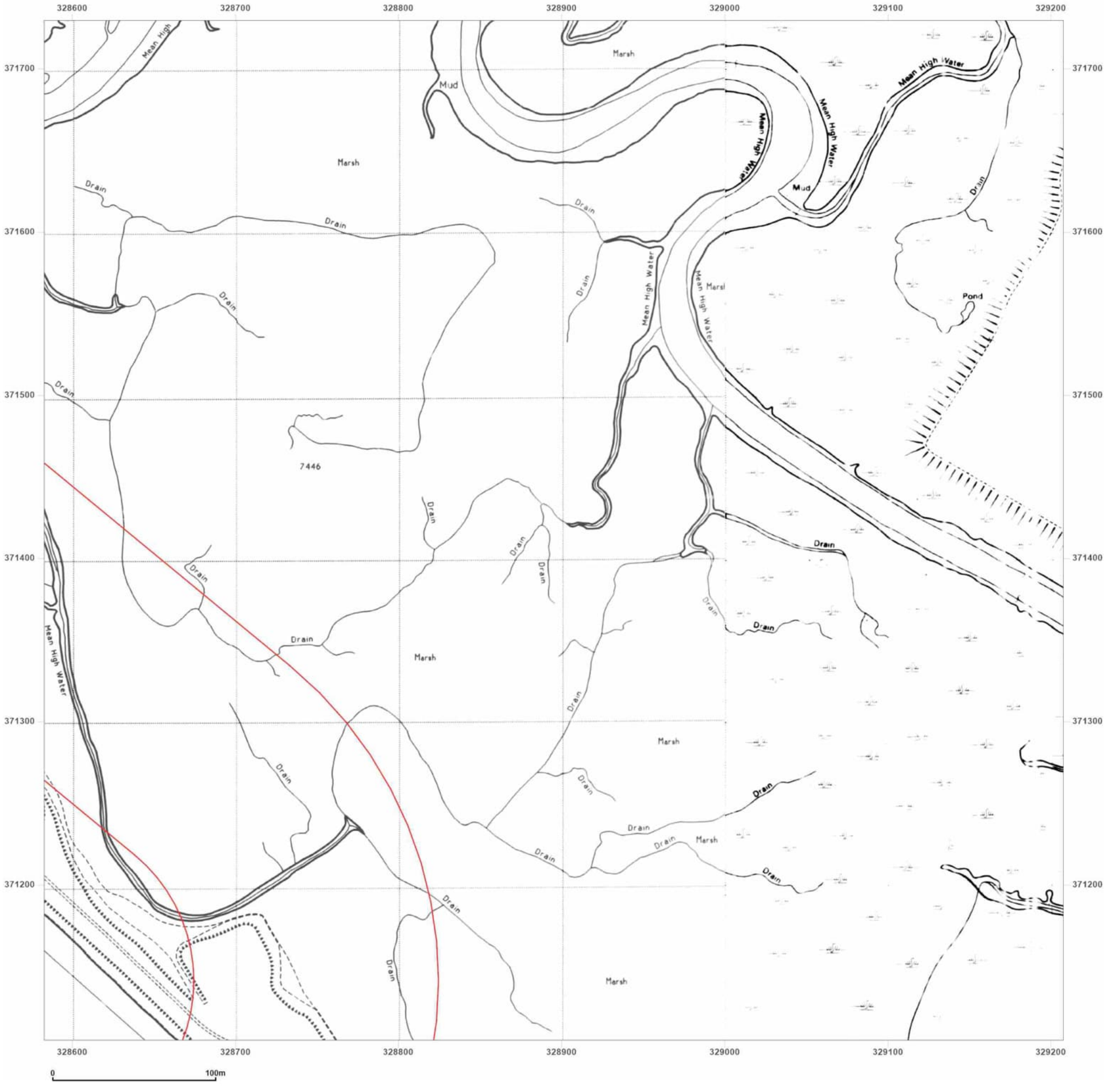
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_LS_7_3
Grid Ref: 328895, 371417

Map Name: National Grid
Map date: **1990-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

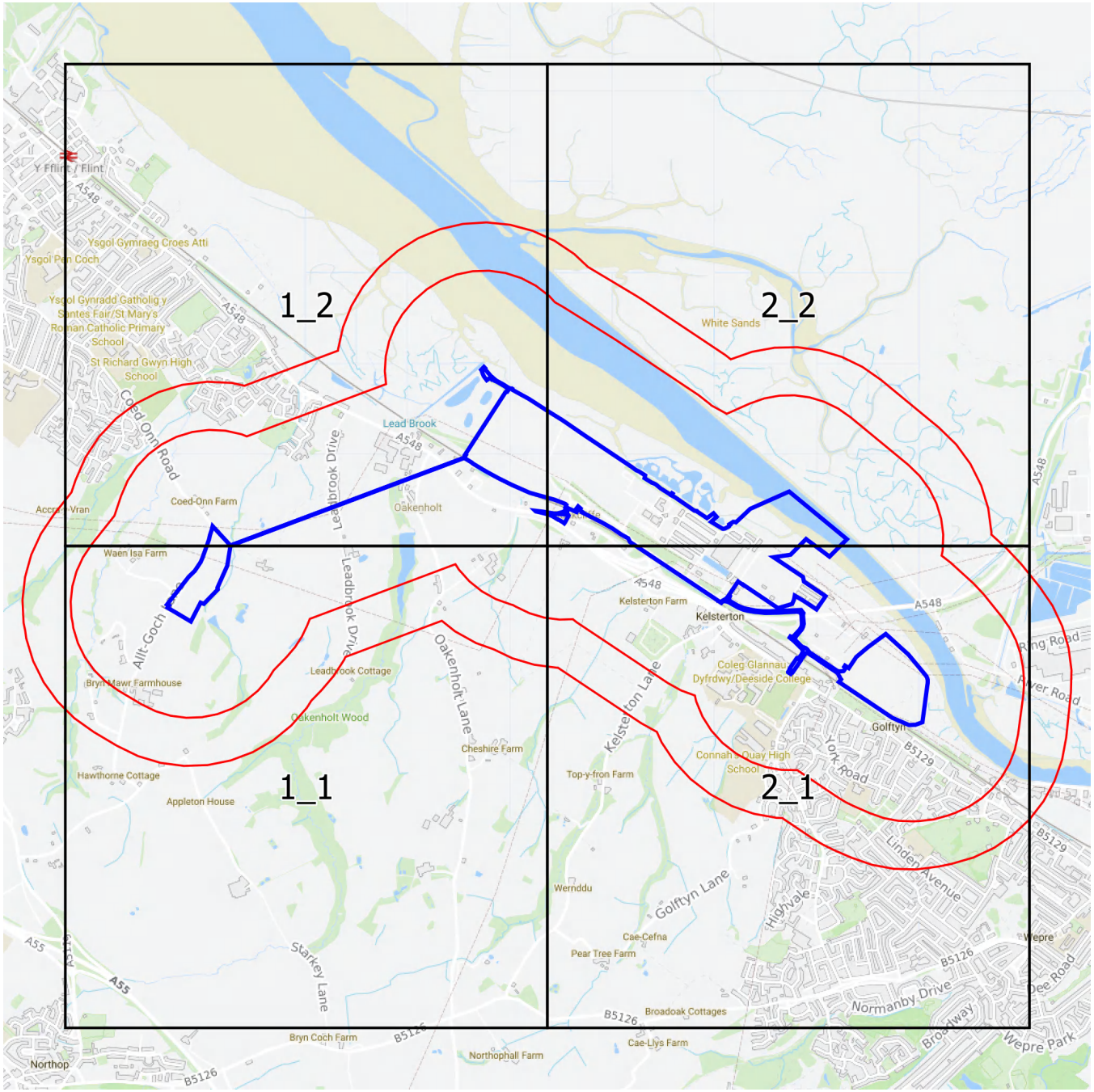
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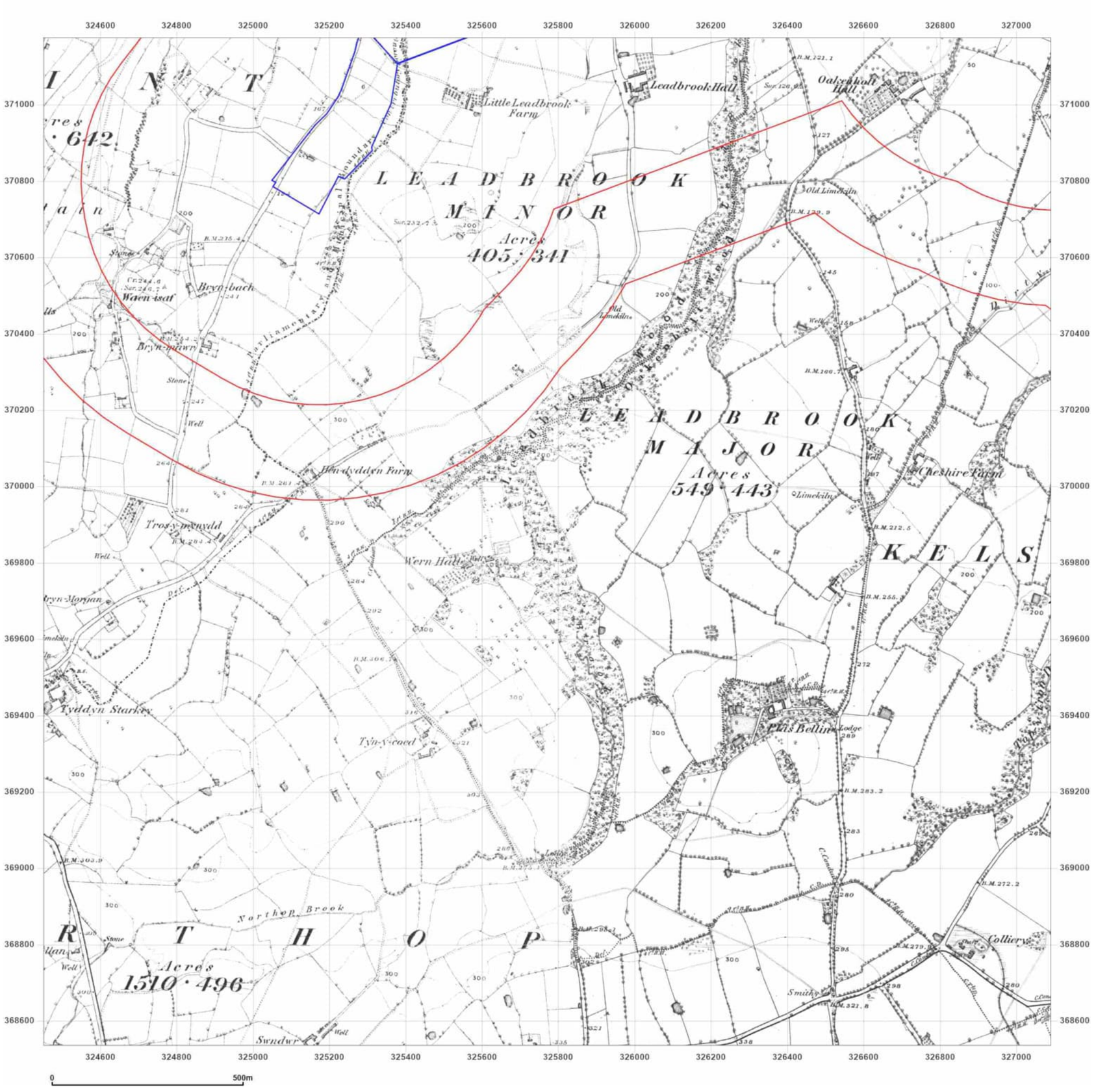
Map legend available at:
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Groundsure INSIGHTS

Small Scale Grid Index

N
W
E
S



Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: County Series
Map date: **1869-1871**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

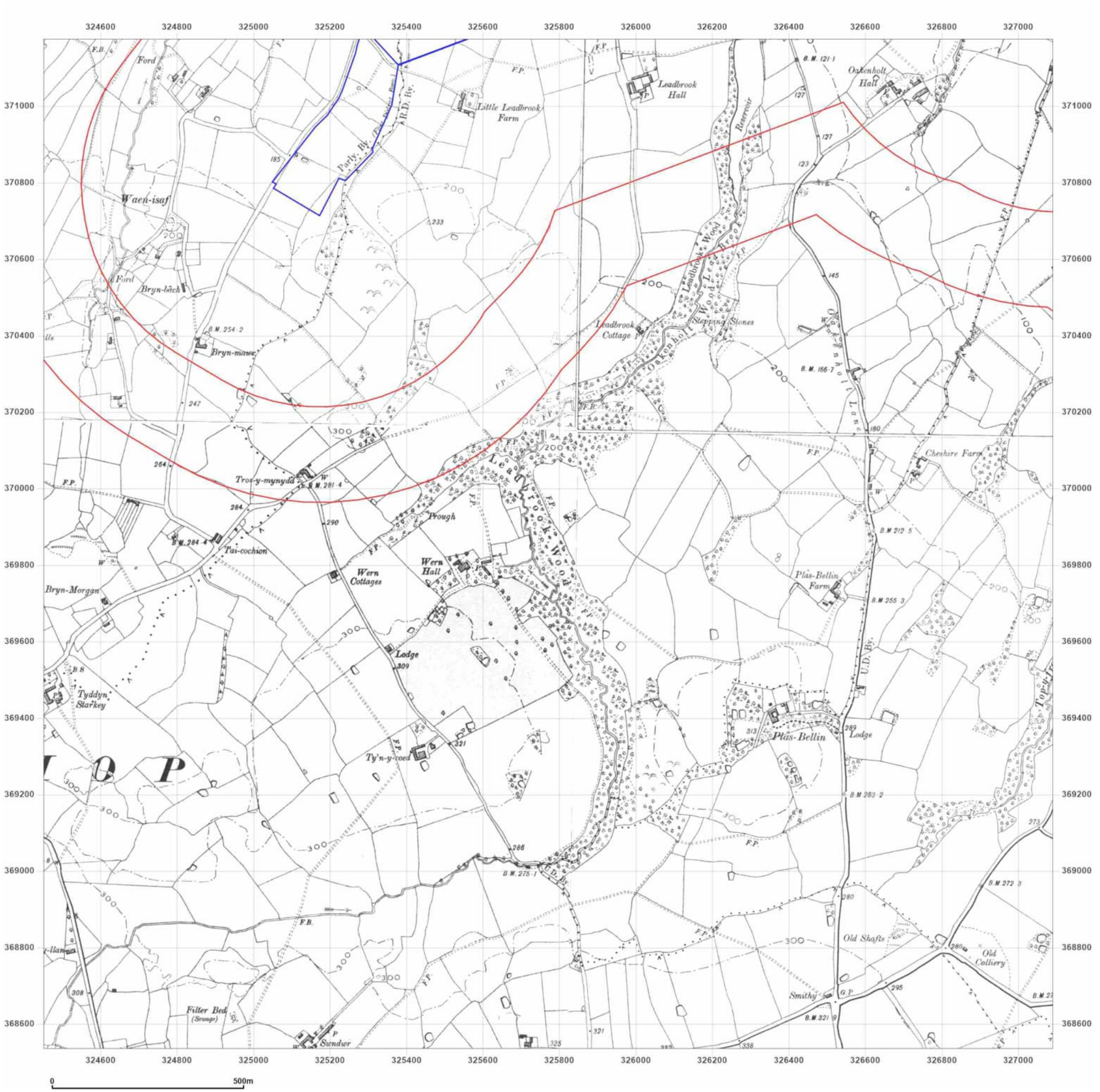
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

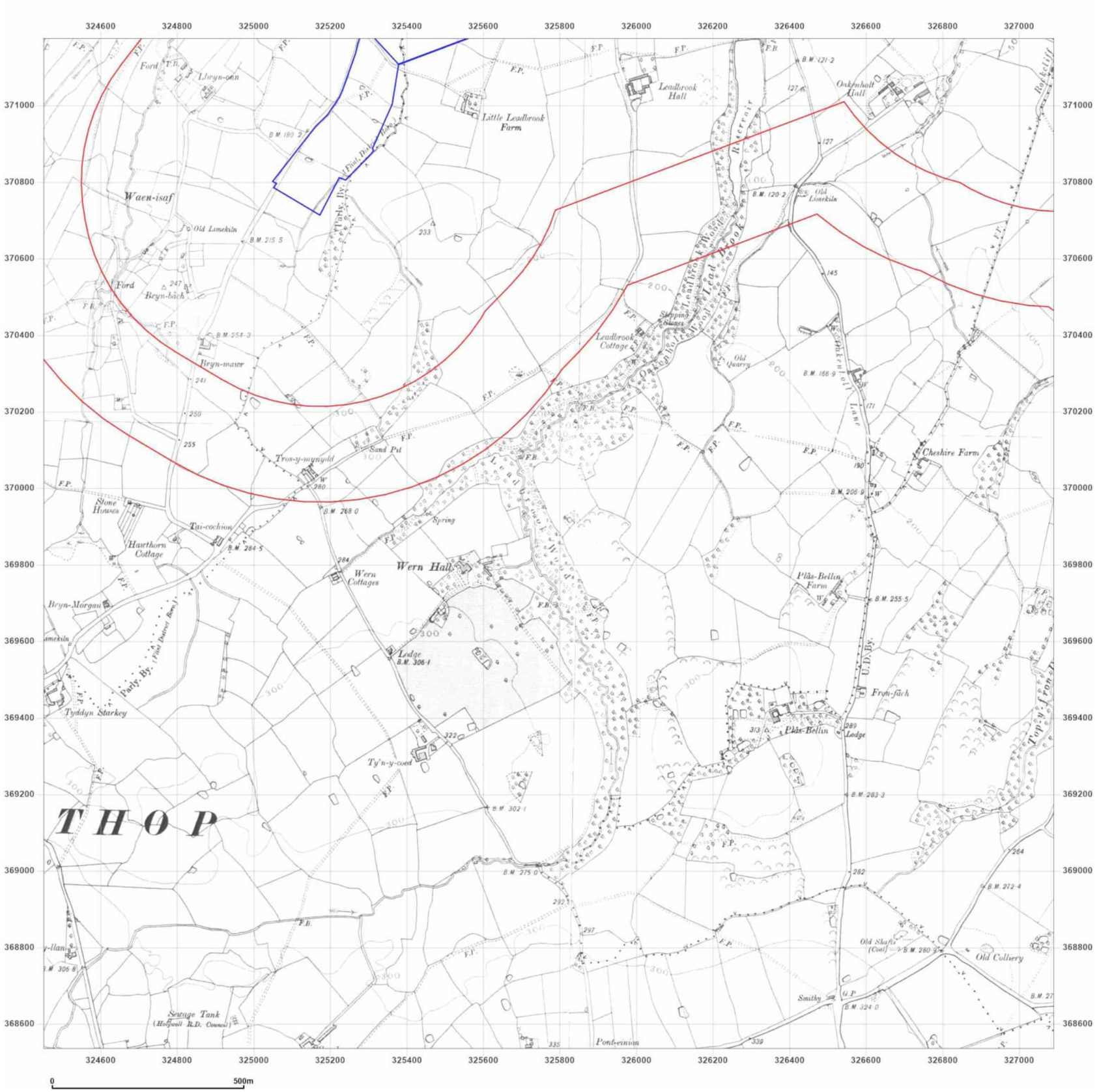
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Production date: 07 March 2024

Map legend available at:
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: County Series

Map date: **1909-1914**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1913
Edition 1913
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1914
Edition 1914
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

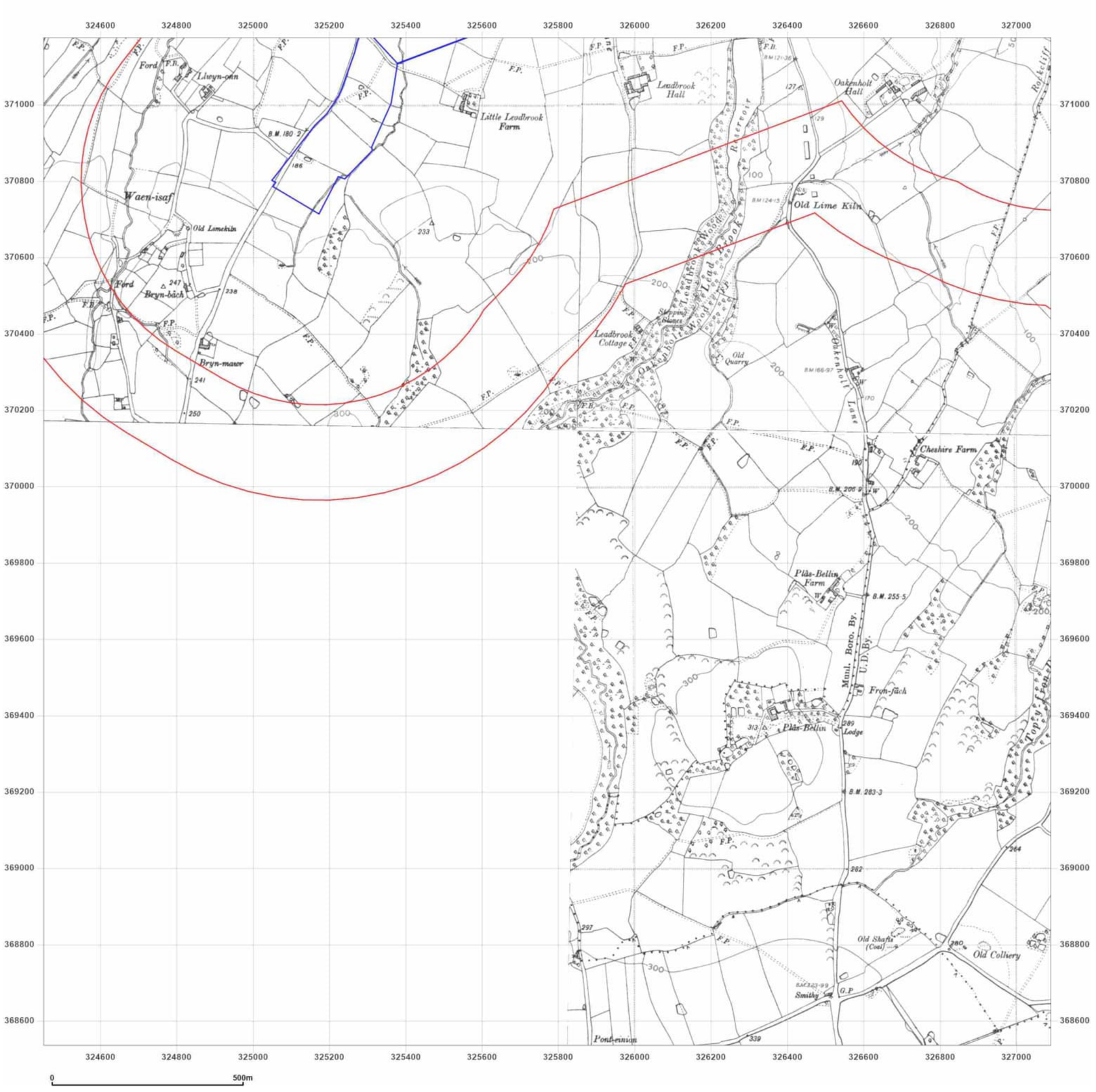
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: County Series

Map date: **1938**

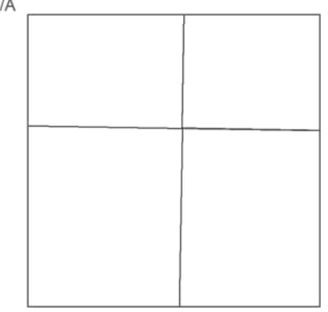
Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1869
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

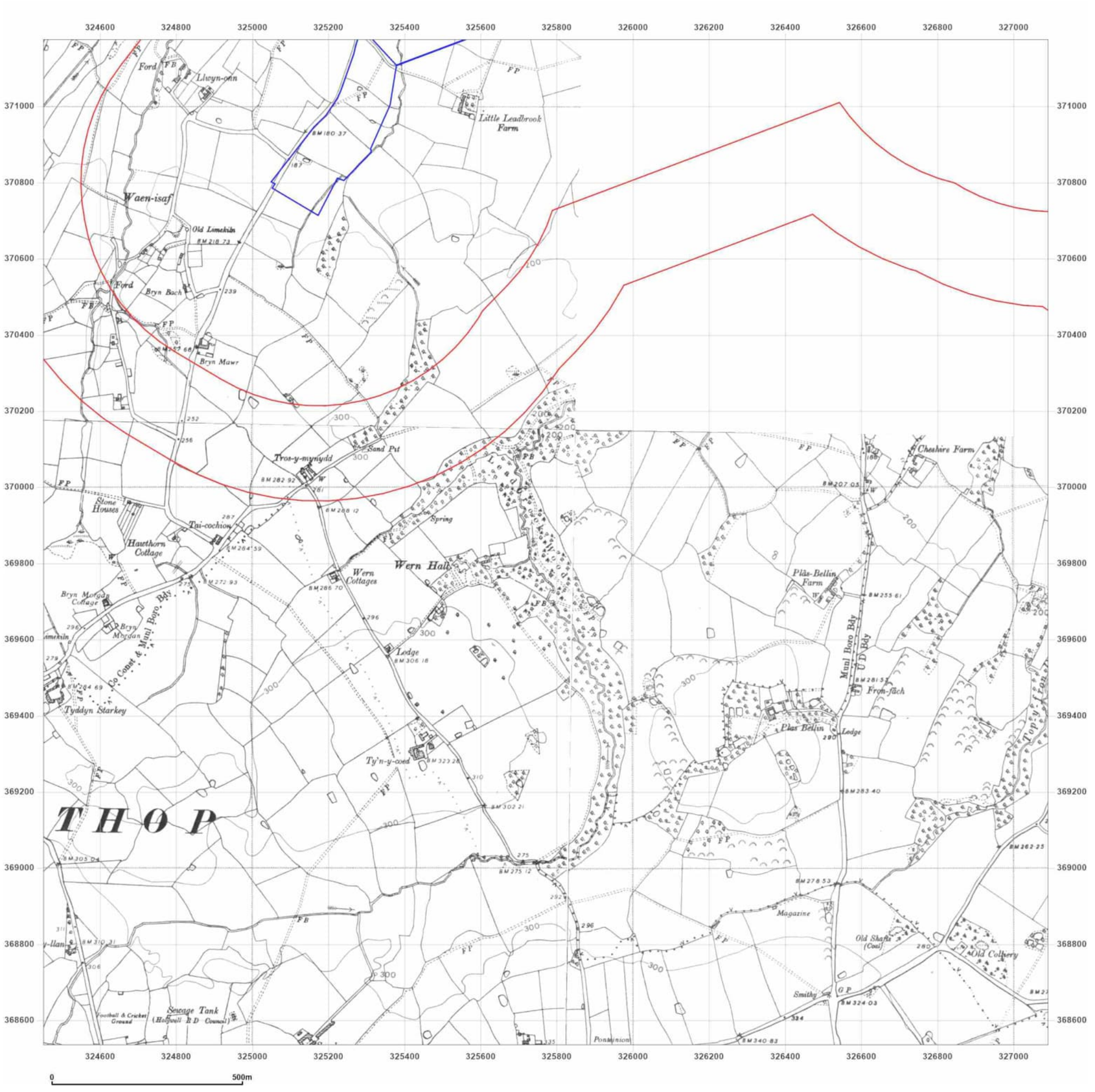
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

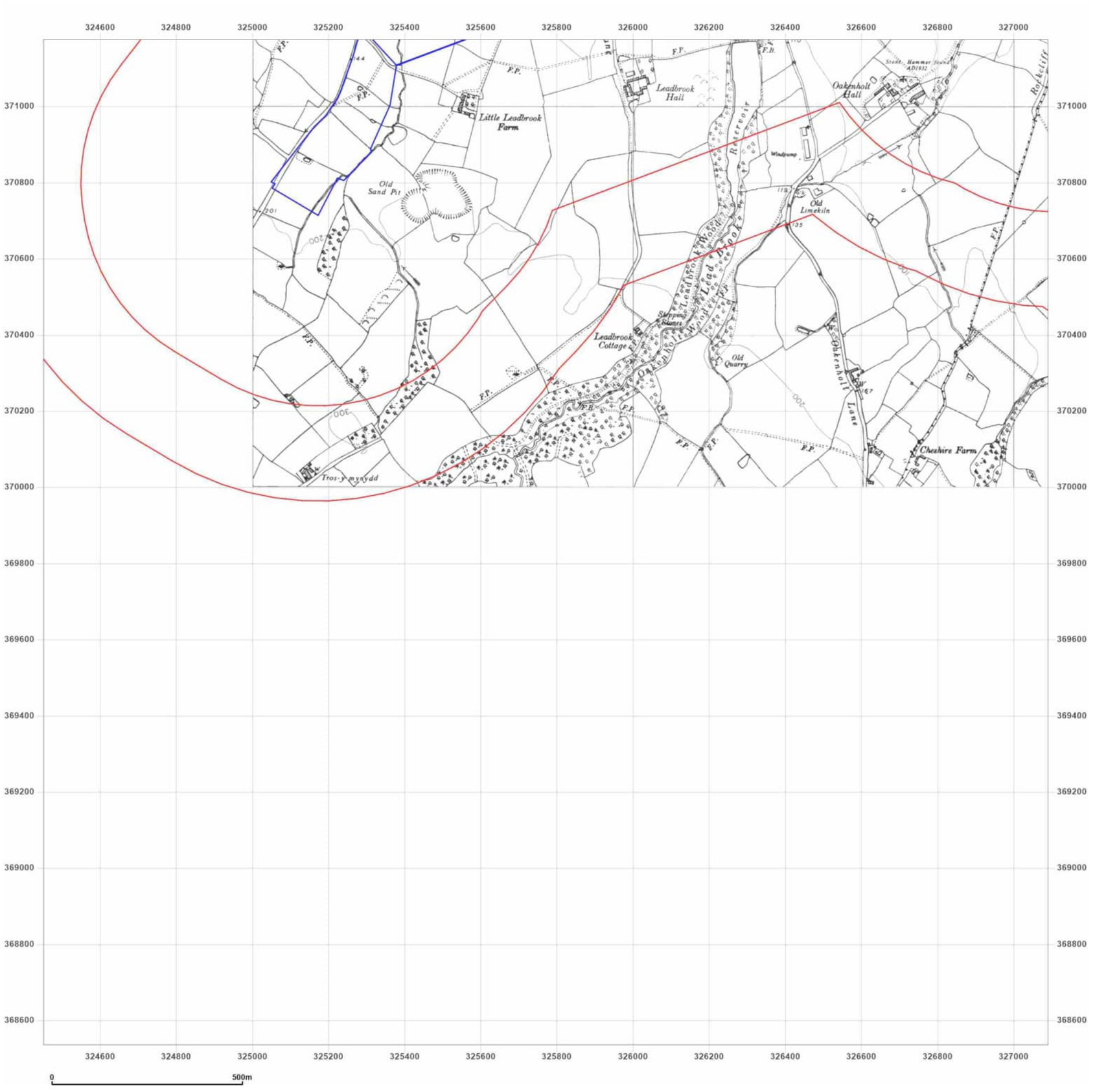
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: Provisional

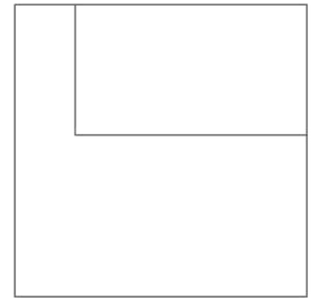
Map date: **1953**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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



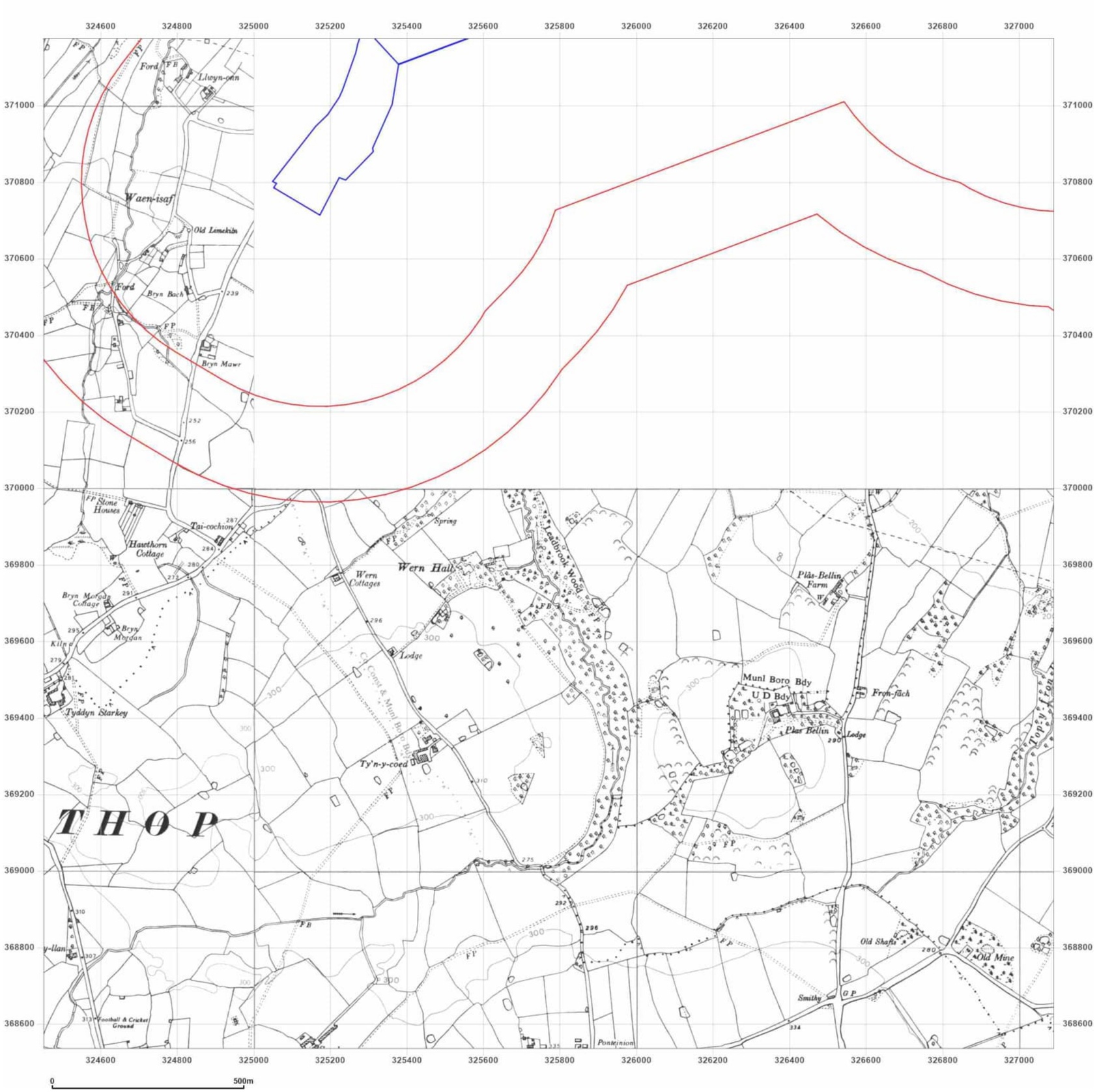
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: Provisional
Map date: **1959-1963**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1959
Revised 1959
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1959
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1962
Edition N/A
Copyright 1963
Levelled N/A

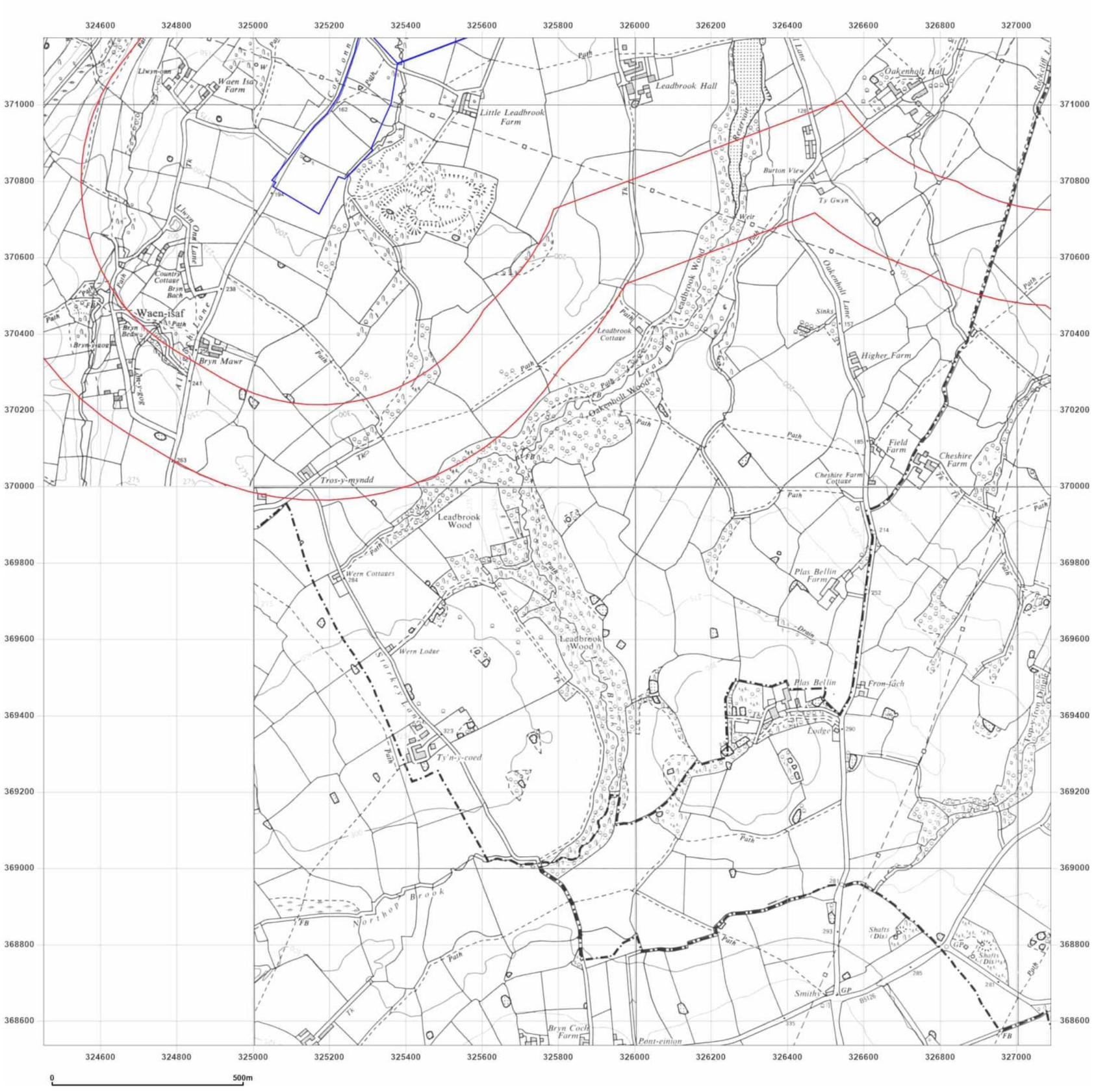
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: Provisional
Map date: **1969-1970**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

Surveyed 1962
Revised 1968
Edition N/A
Copyright 1969
Levelled N/A

Surveyed 1966
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

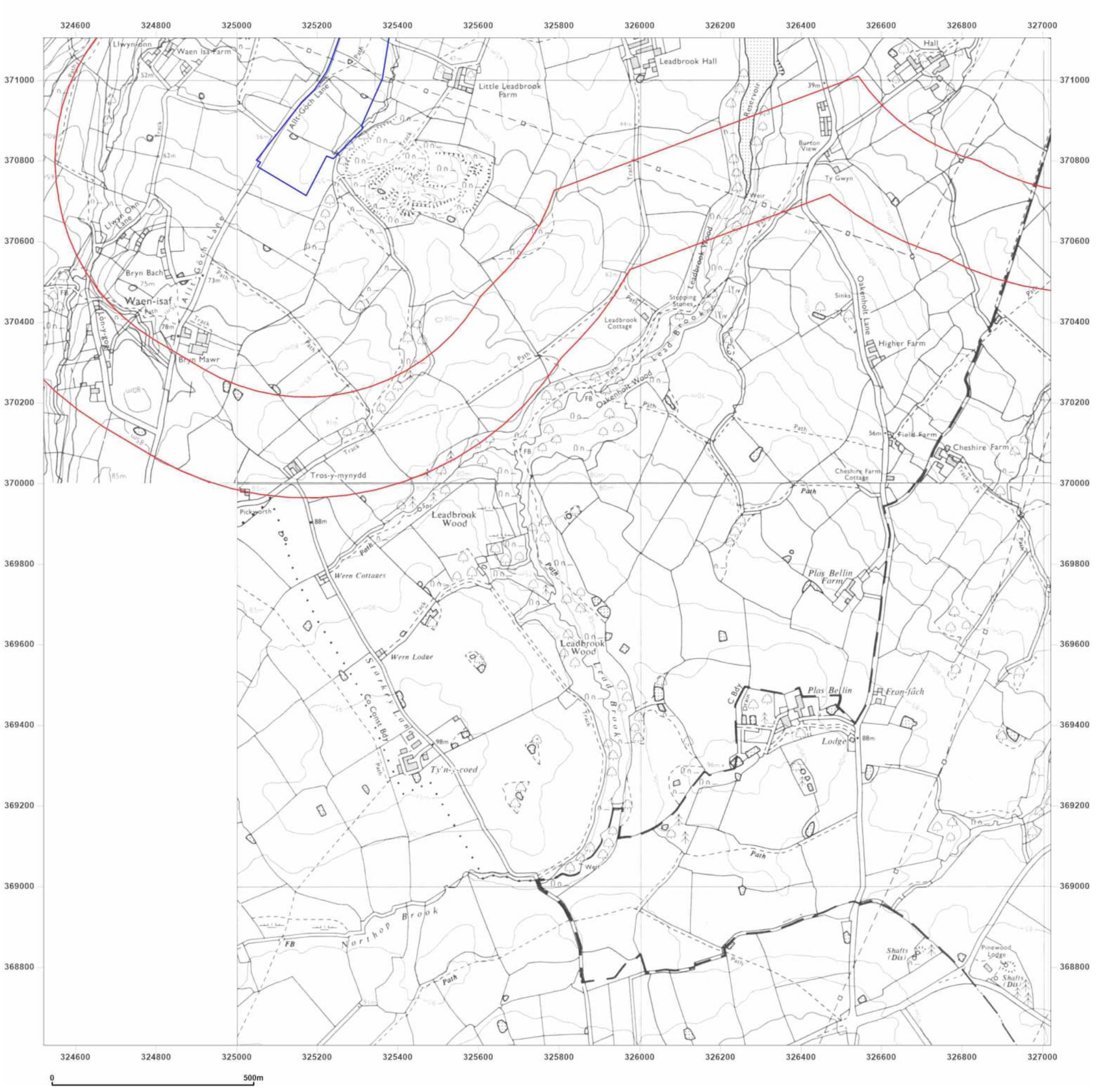
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1981
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1979
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

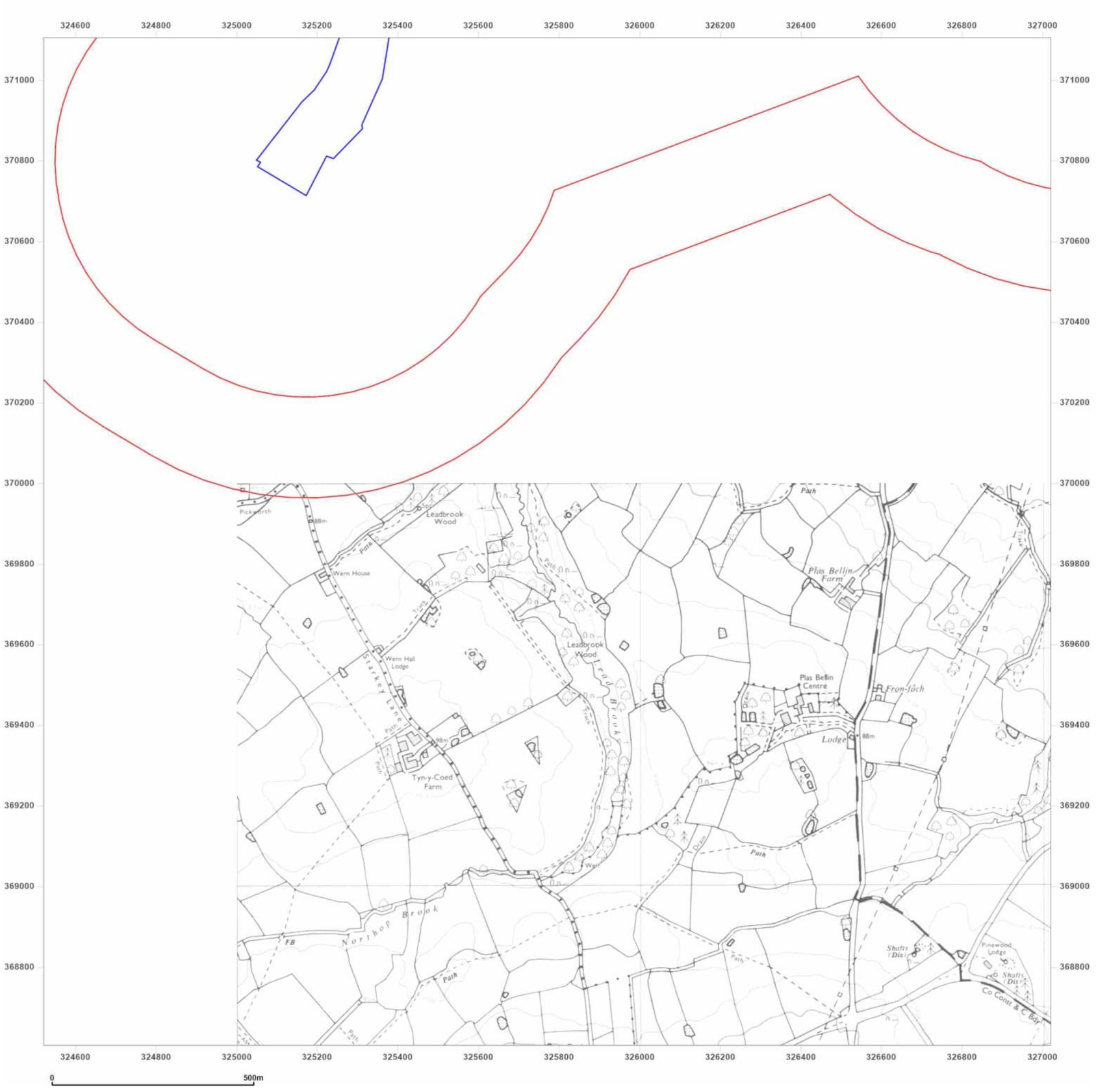
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

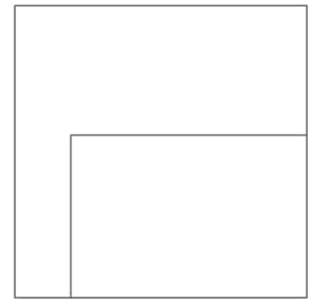
Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S



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

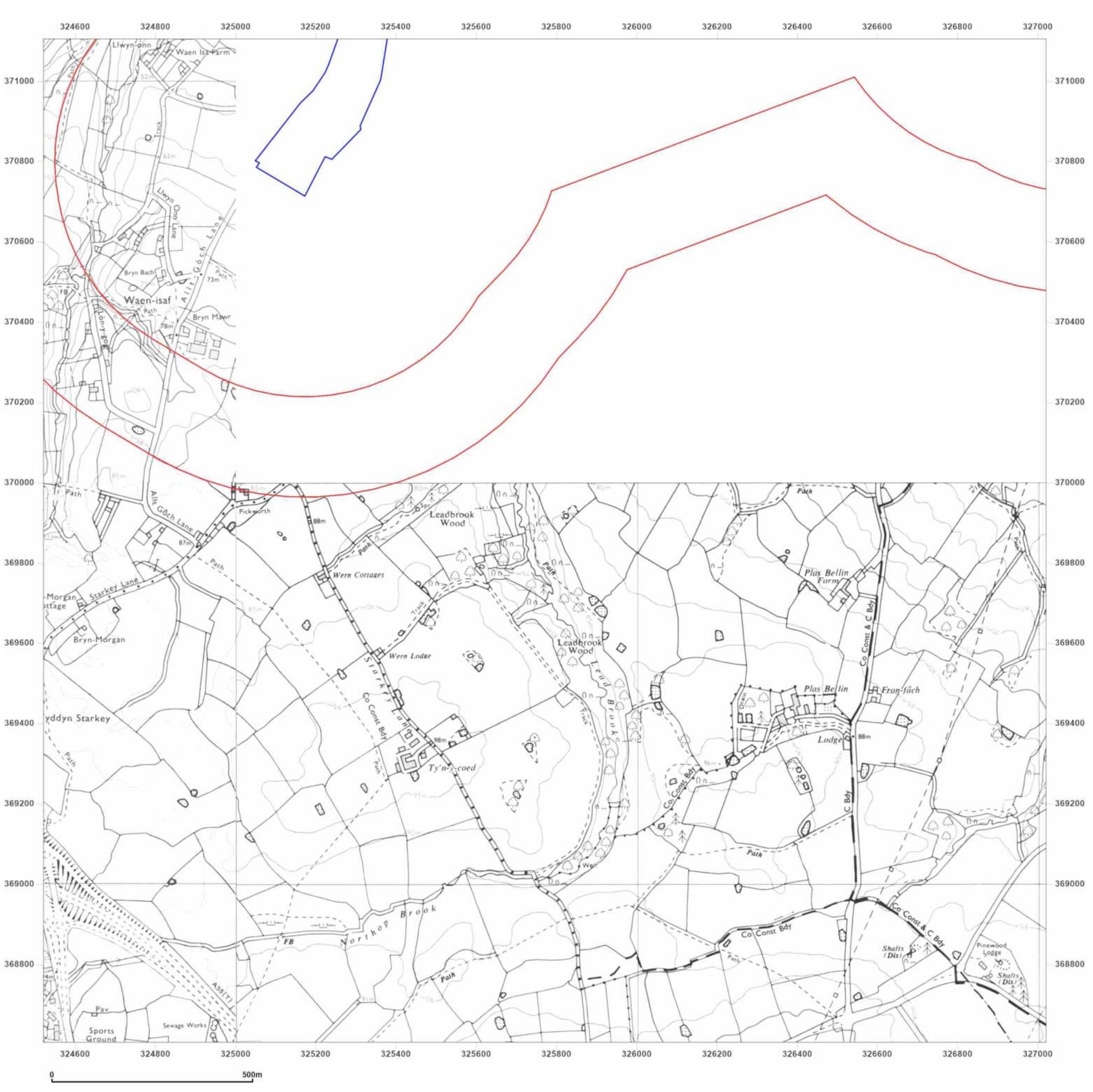
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1980
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1973
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1979
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

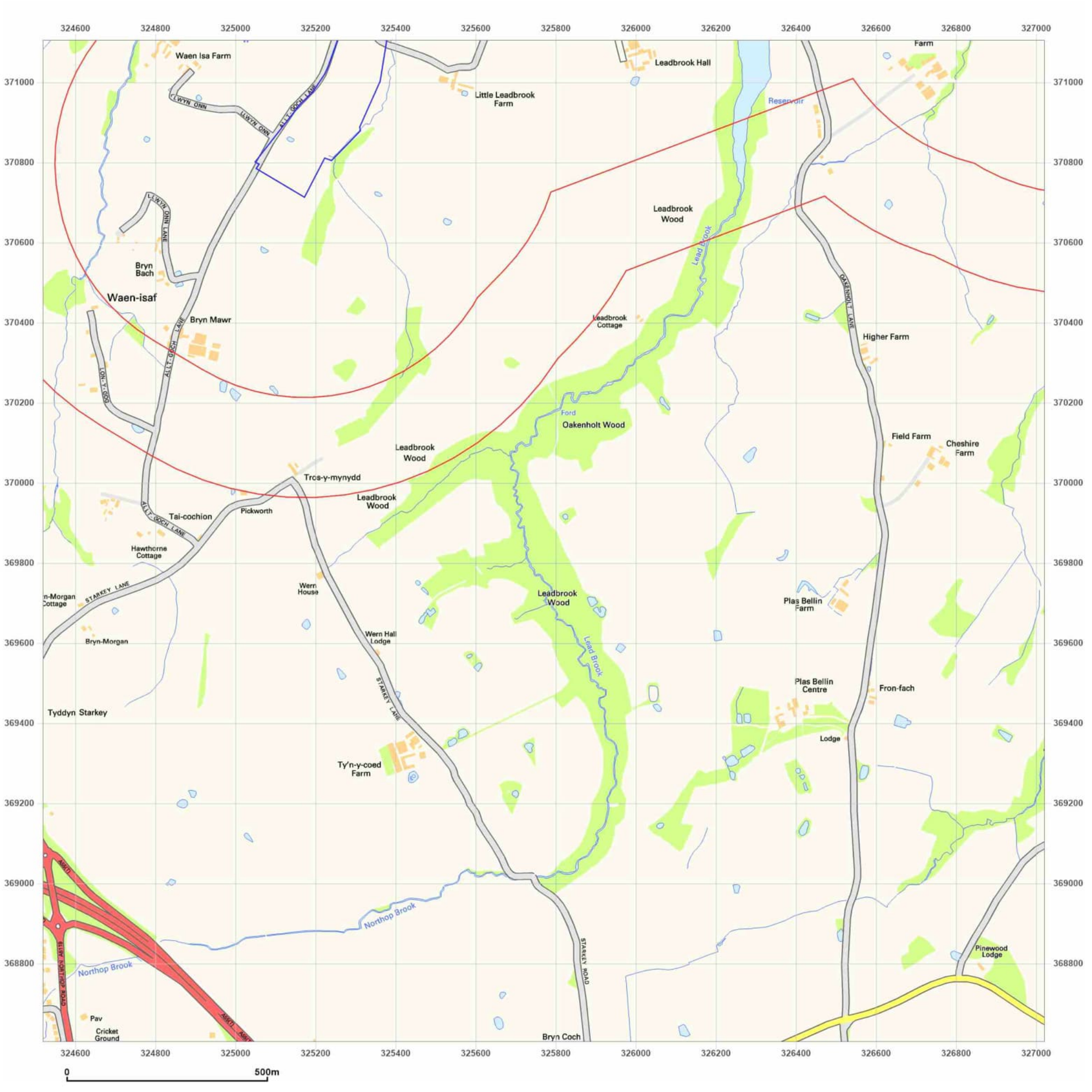
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Site Details:

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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

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

N
W E
S

2001

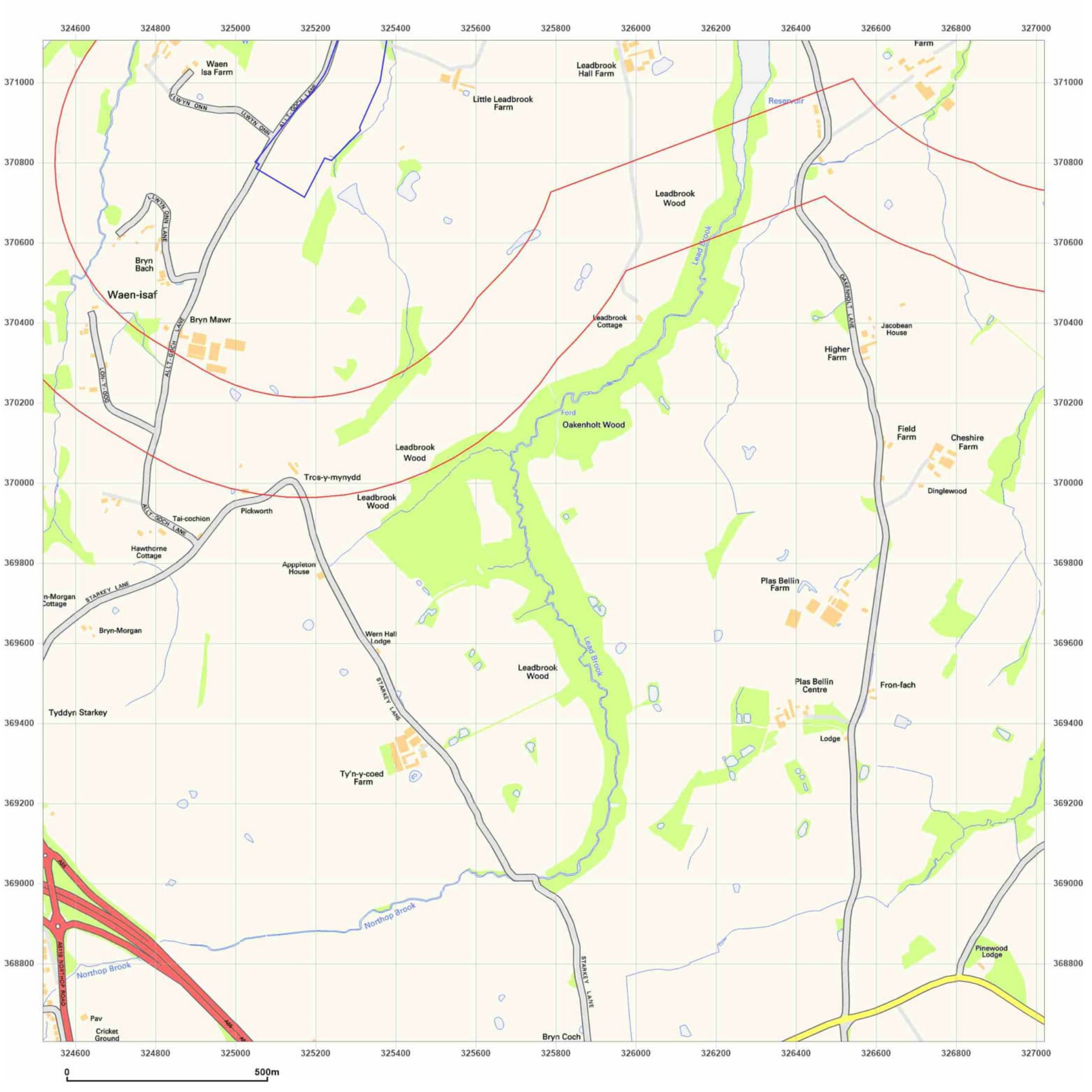
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

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

N
W E
S

2010

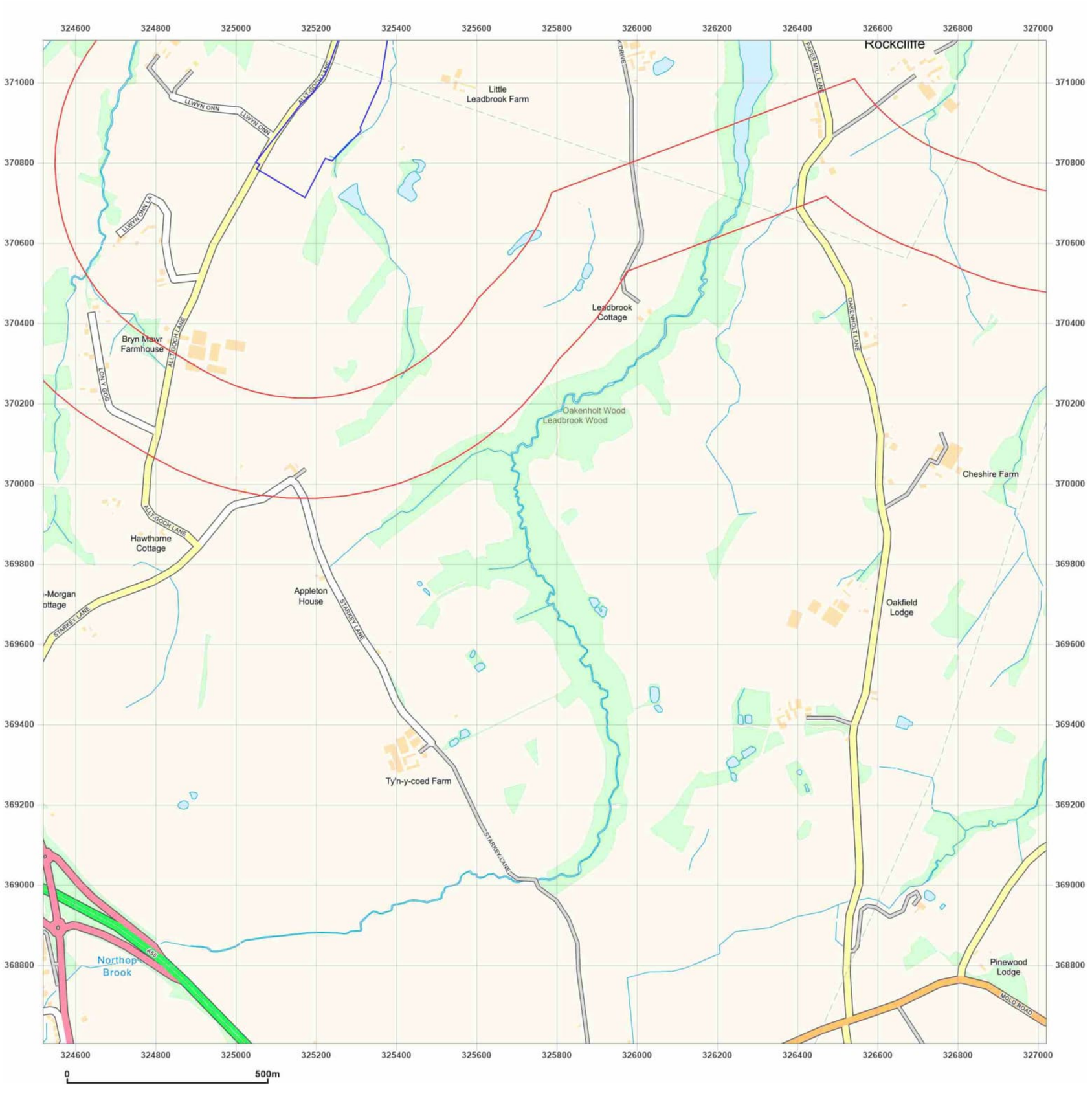
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_1
Grid Ref: 325770, 369855

Map Name: National Grid
Map date: **2024**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2024

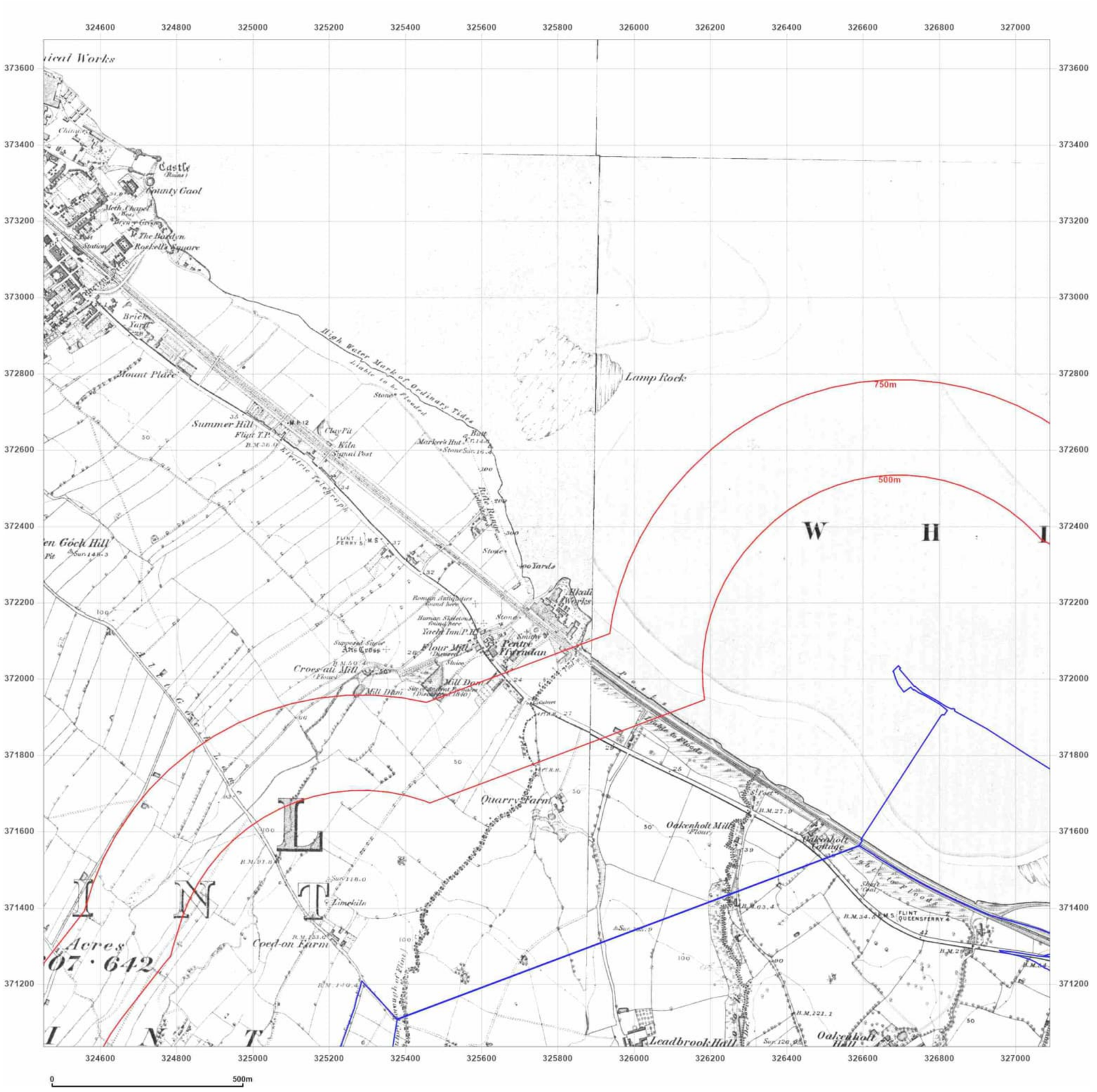
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series

Map date: **1869-1871**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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

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

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

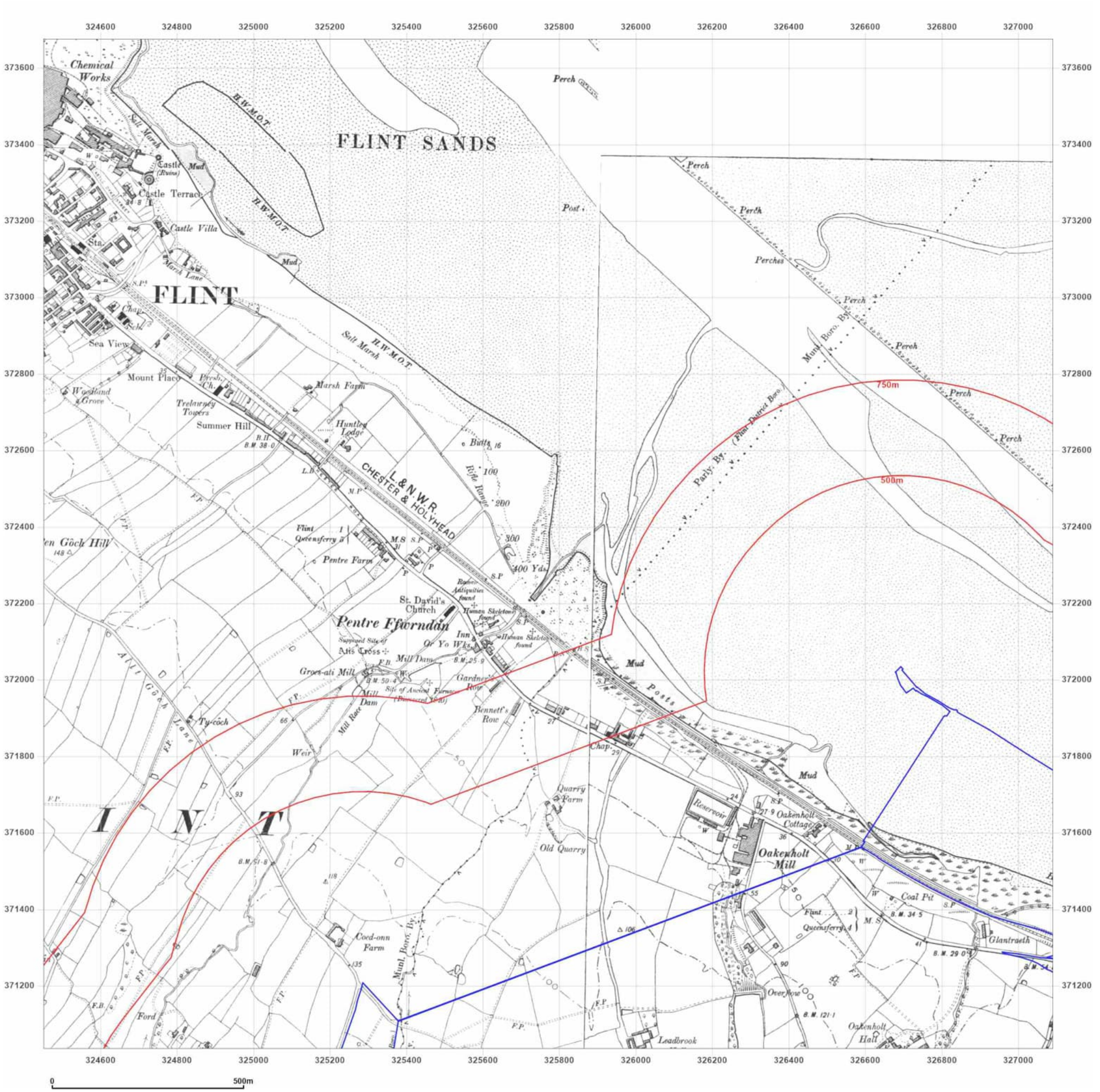
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series
Map date: 1898
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1872
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

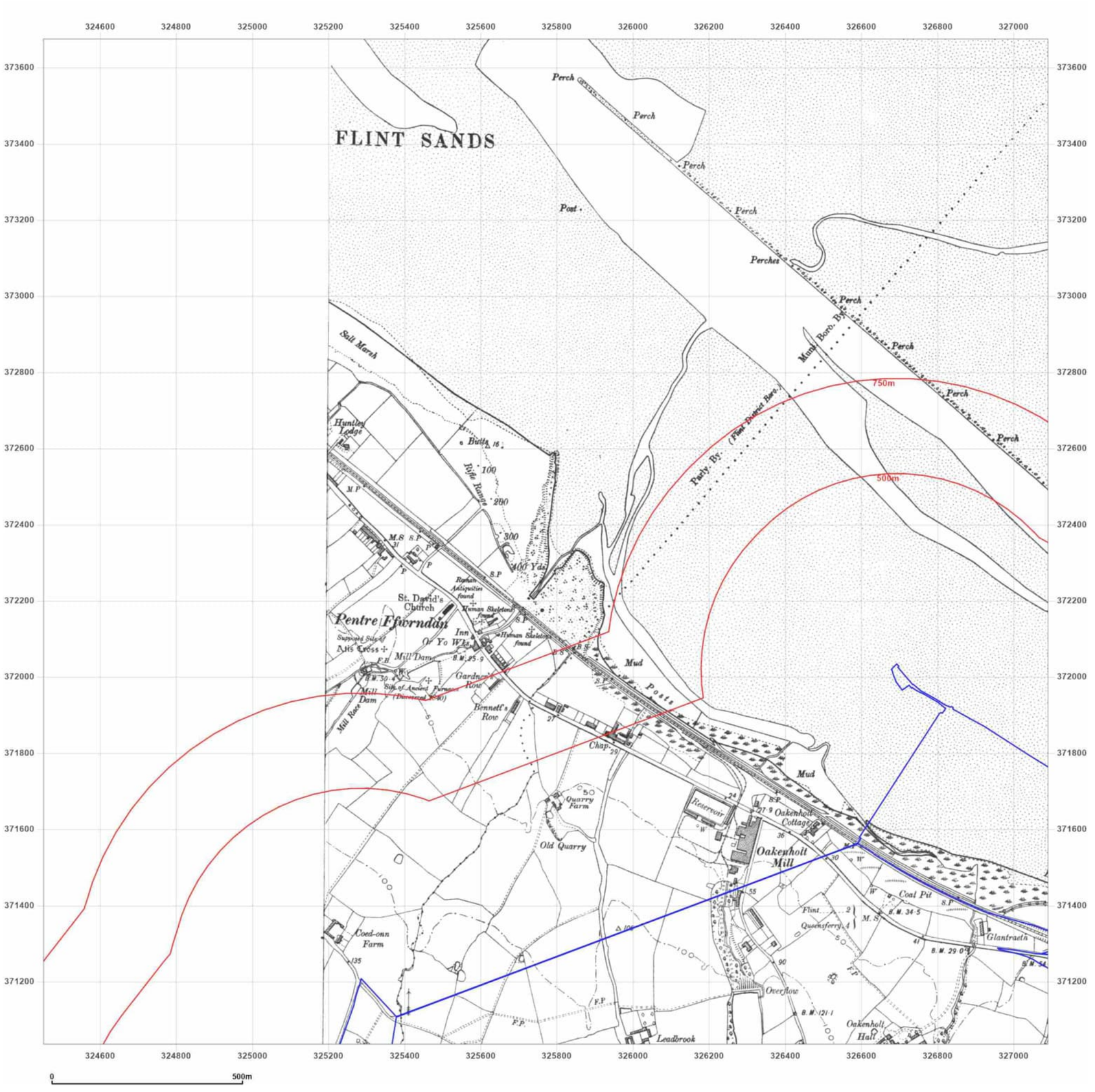
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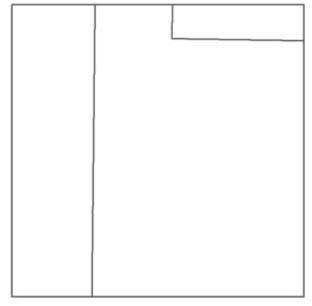
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Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series
Map date: 1898
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1873
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1872
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

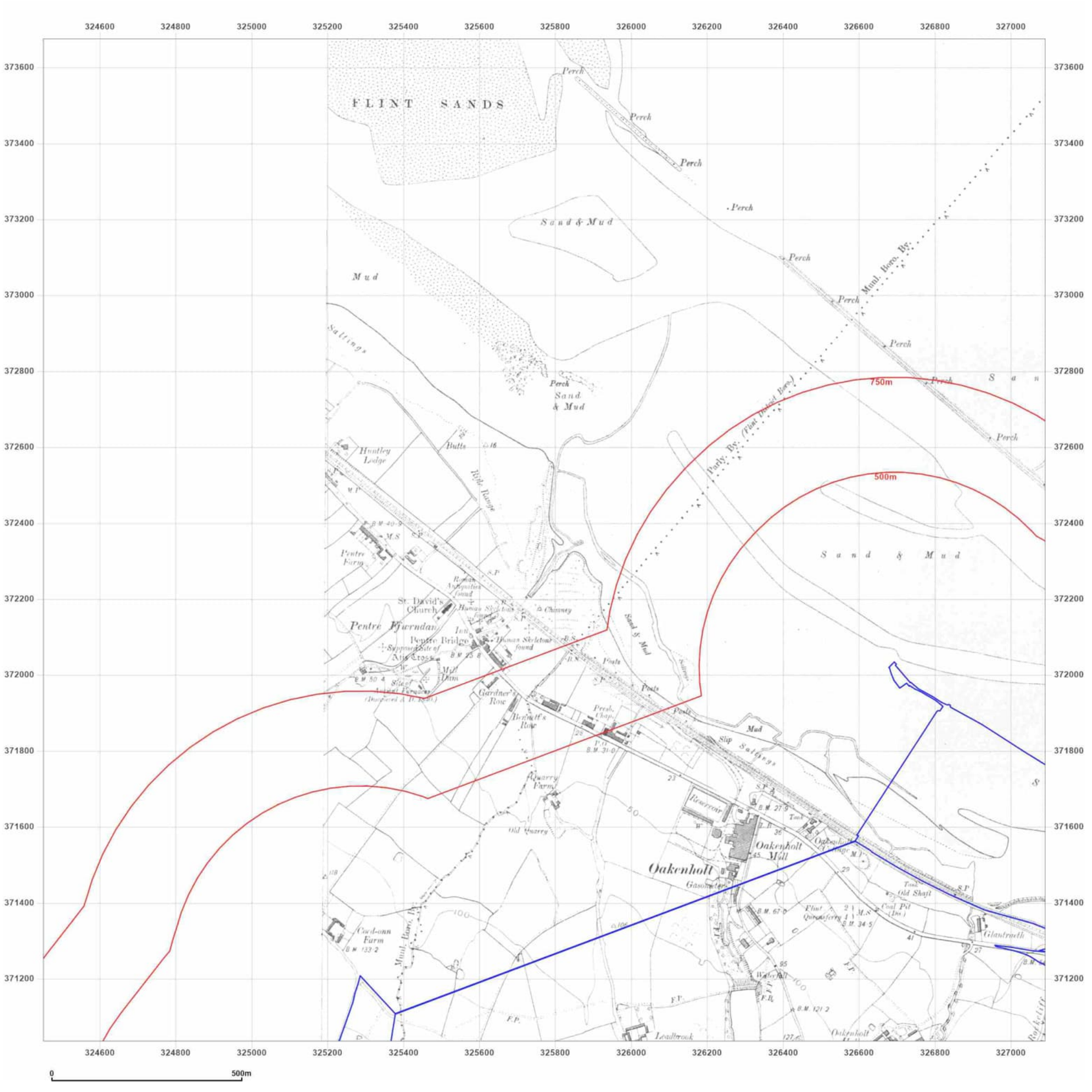
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series

Map date: 1909

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1871
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

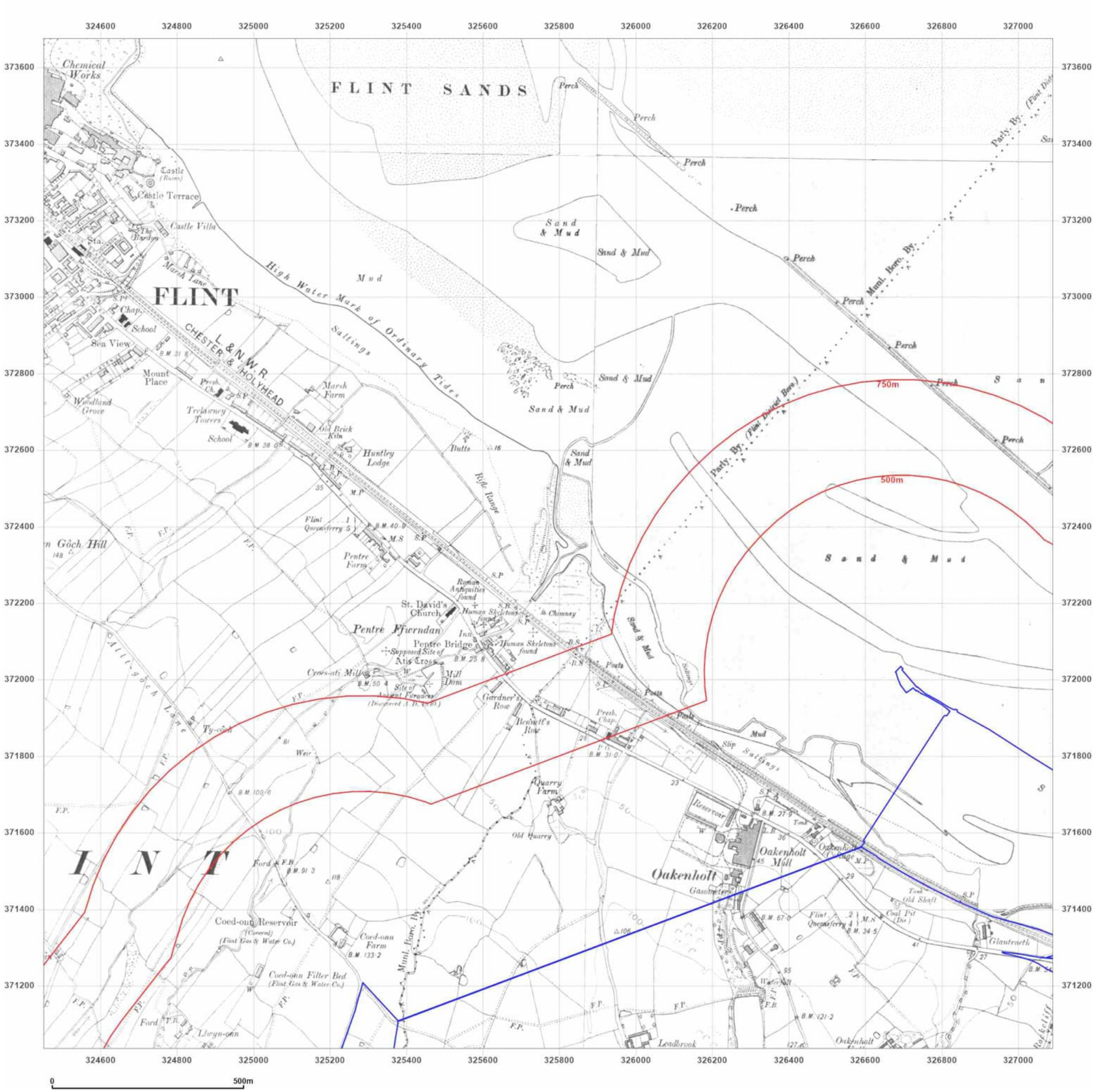
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series
Map date: **1909-1914**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1870
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1913
Edition 1913
Copyright N/A
Levelled N/A

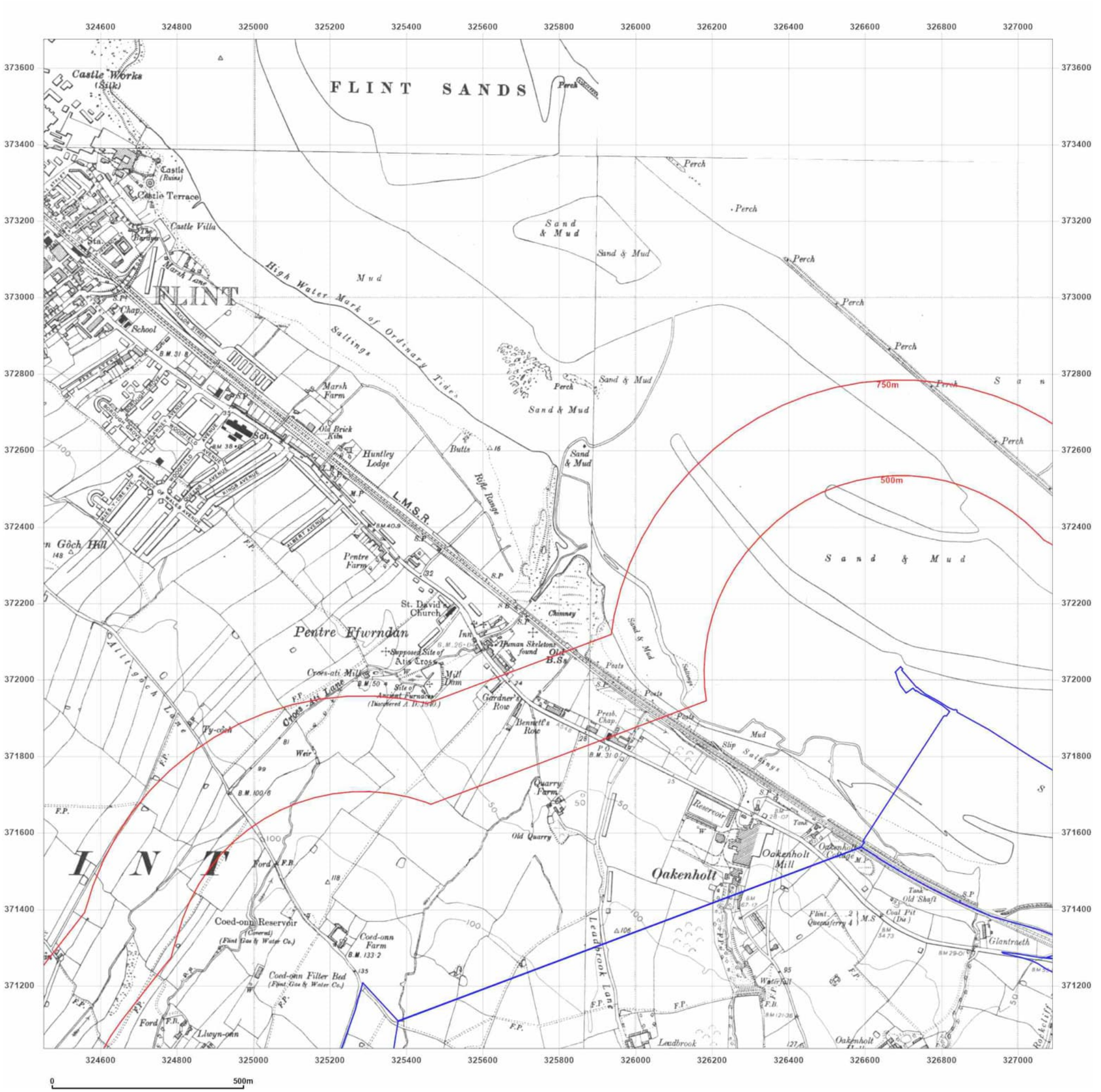
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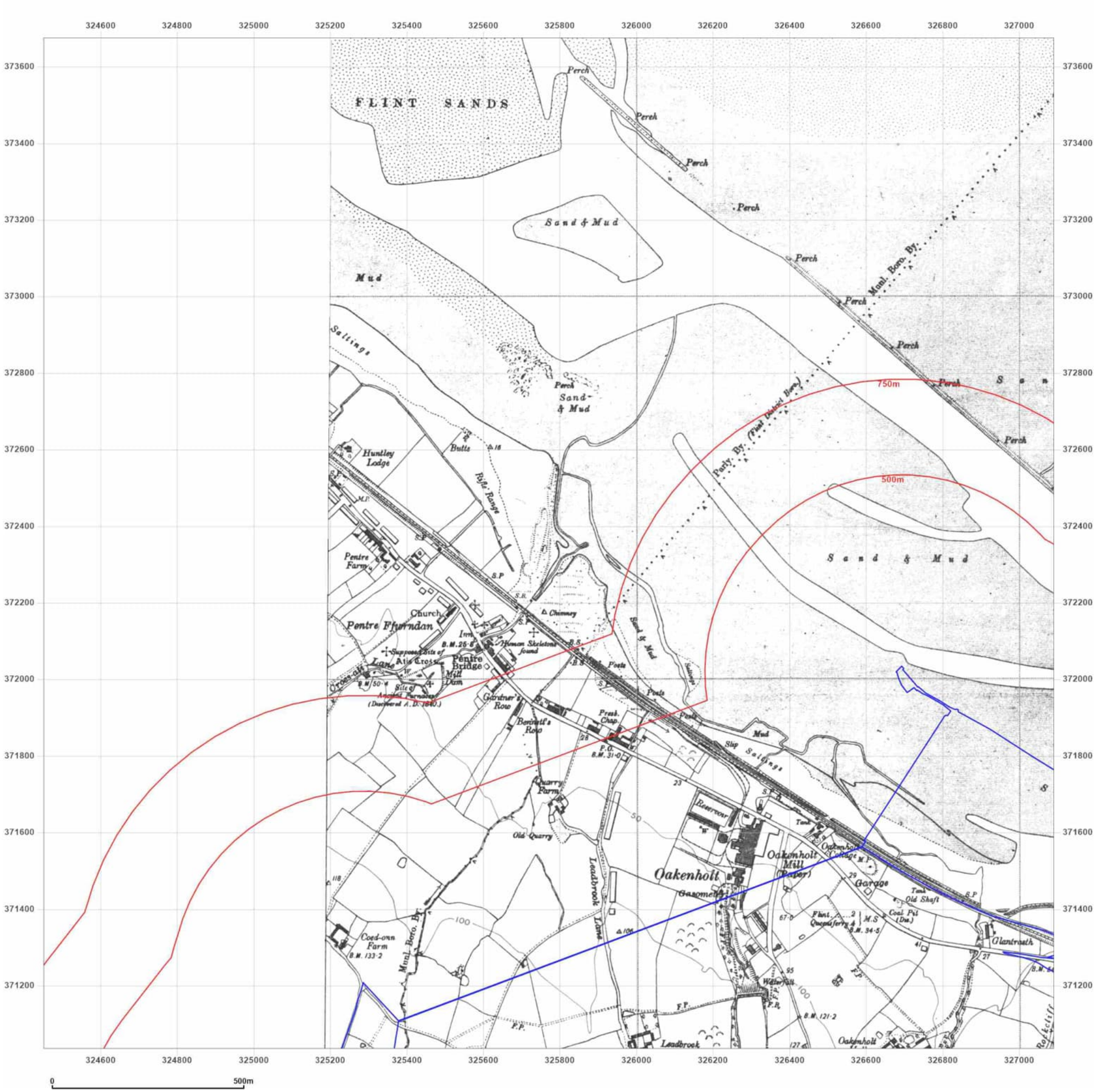
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FLINT SANDS
FLINT
Castle Works (Silk)
Castle (Ruins)
Castle Terrace
Castle Villa
The Nurseries
Sta.
Chap.
School
High Water Mark of Ordinary Tides
Saltings
Marsh and
Mud
Sand & Mud
Perch
Marsh Farm
Old Brick Kiln
Huntley Lodge
Butts
Rifle Range
L.M.S.R.
Sand & Mud
750m
500m
Sand & Mud
Pentre Farm
St. David's Church
Chimney
Pentre Efwrndan
Supposed Site of Ati's Cross
Human Skeleton found
Old B.S.
Mill Dam
Site of Ancient Furnaces
(Discovered A. D. 1940)
Cross-ati Mills
Ati's Cross Lane
Ty-coch
Weir
Gardner's Row
Bennett's Row
Presb. Chap.
Posts
Slip
Saltings
Quarry Farm
Old Quarry
Reservoir
Tank
Oakenholt Mill
Oakenholt
Oakenholt College
Tank
Old Shaft
Coal Pit (Dis.)
Flint Queensferry 4
M.S
Glantraeth
Water Gall
Leadbrook Lane
Leadbrook
Oakenholt House
Rockcliff
Coed-onn Reservoir
(Covered)
(Flint Gas & Water Co.)
Coed-onn Farm
Coed-onn Filter Bed
(Flint Gas & Water Co.)
Ford
Llwyn-onn
Mud
Sand & Mud
Sand & Mud
Sand & Mud
Sand & Mud
Sand & Mud
Perch
Perch
Perch



Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

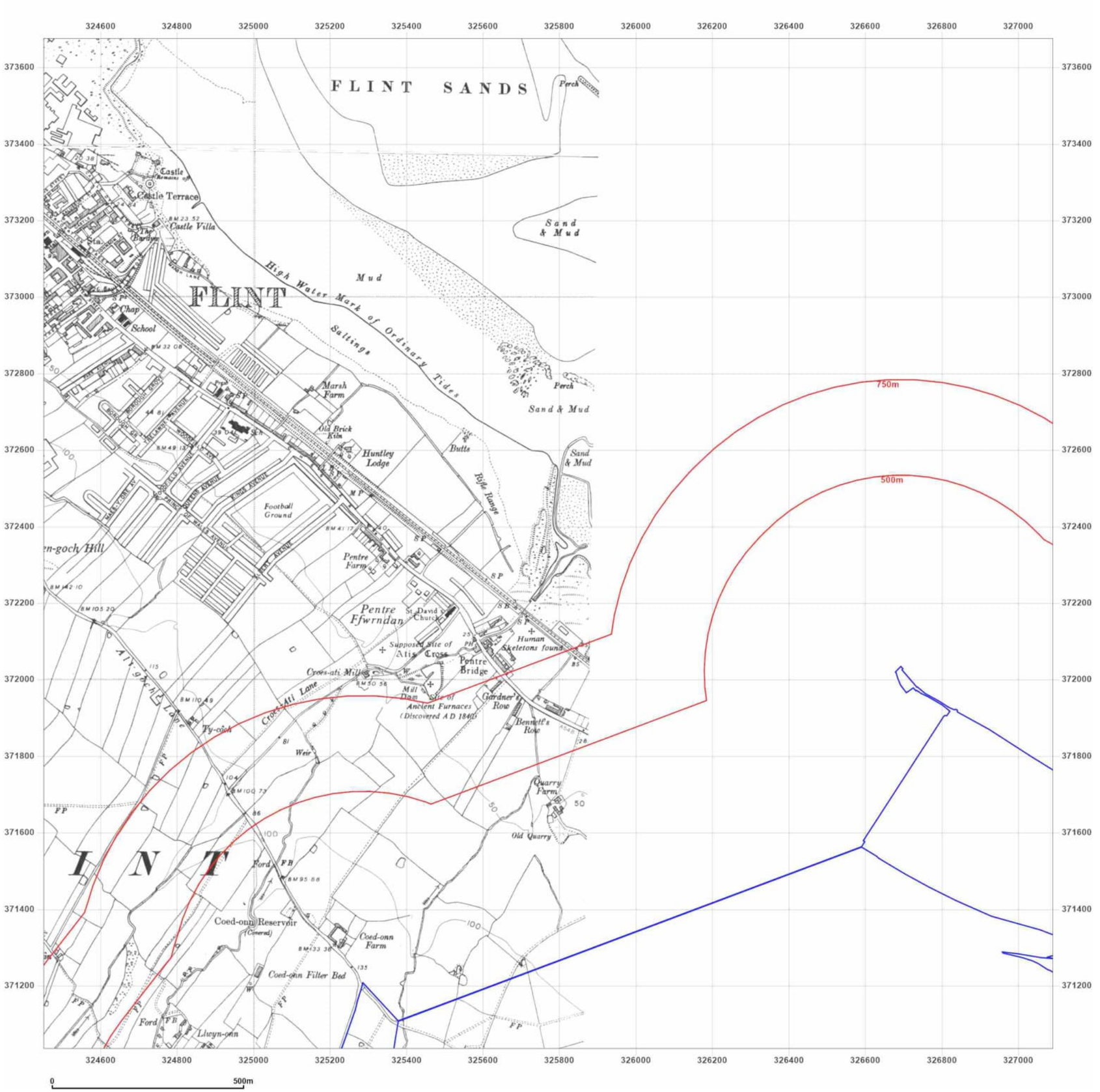
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Production date: 07 March 2024

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: County Series

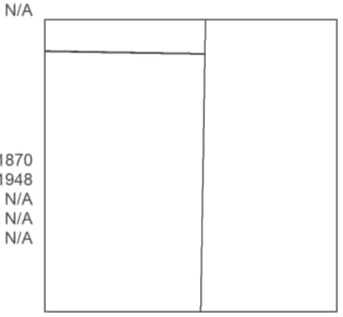
Map date: **1948-1949**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

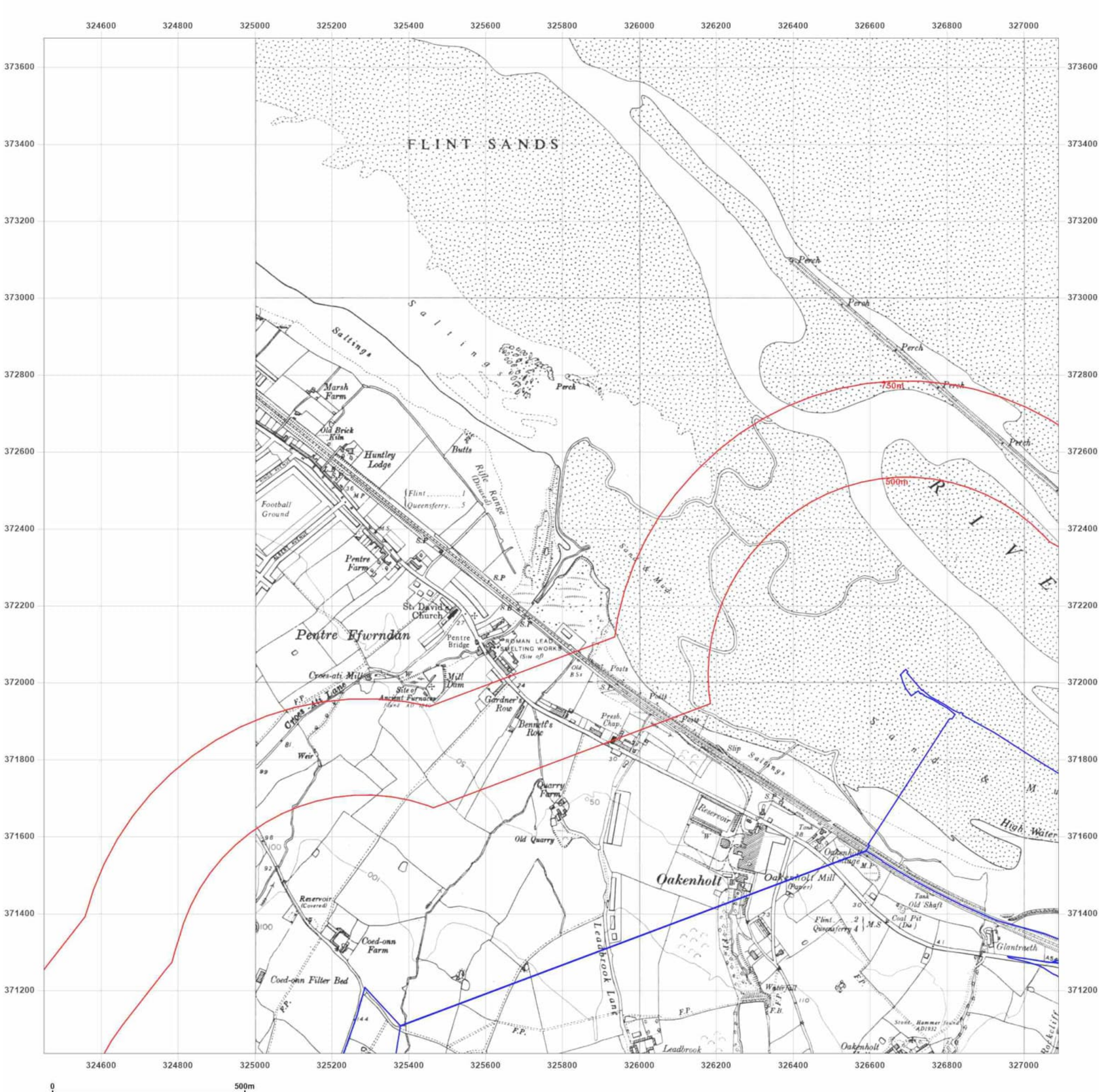
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Production date: 07 March 2024

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: Provisional
Map date: 1953
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

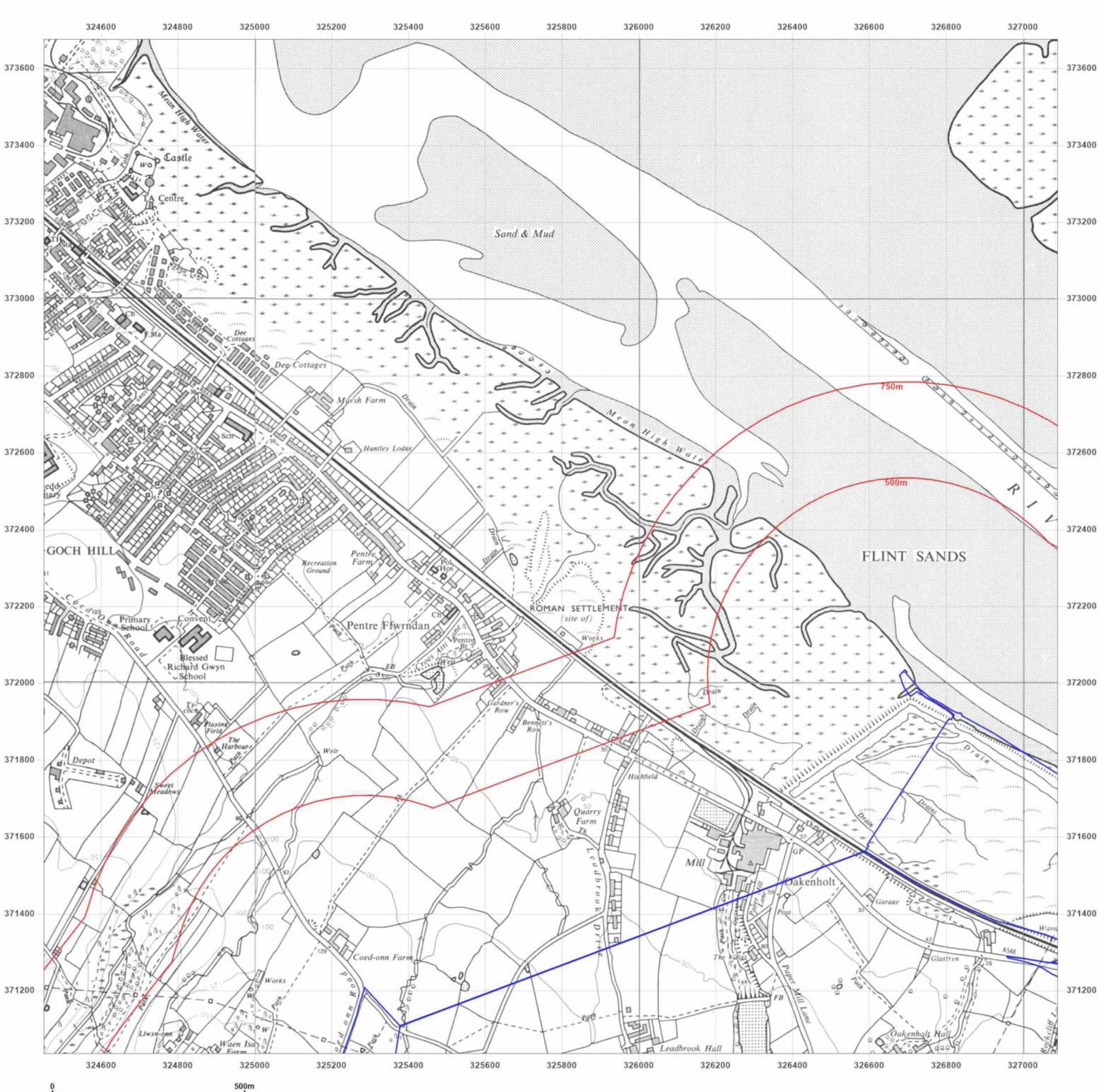
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: Provisional
Map date: 1969
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

Surveyed 1962
Revised 1968
Edition N/A
Copyright 1969
Levelled N/A

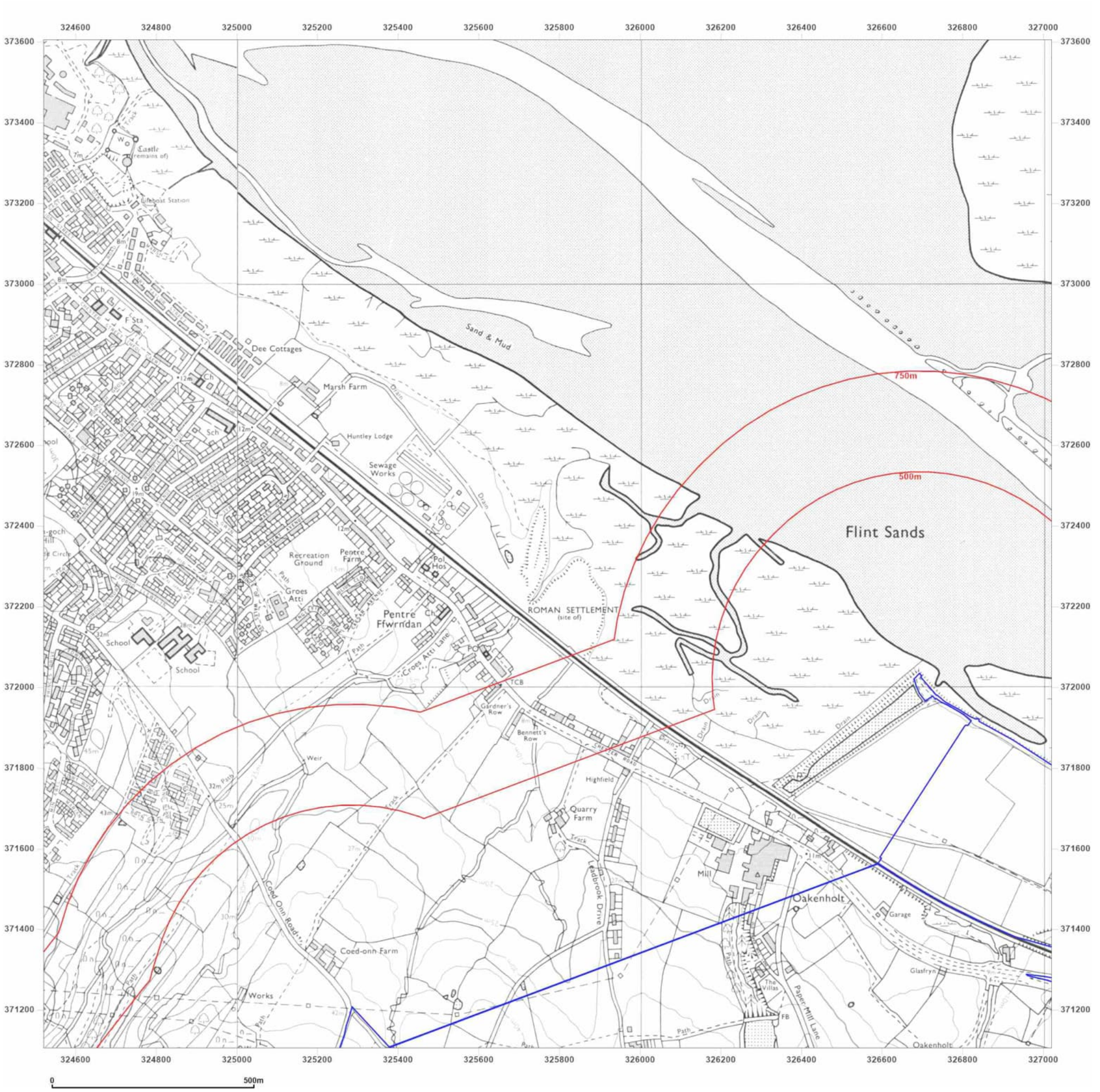
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1980 Revised 1981 Edition N/A Copyright N/A Levelled N/A	Surveyed 1981 Revised 1981 Edition N/A Copyright N/A Levelled N/A

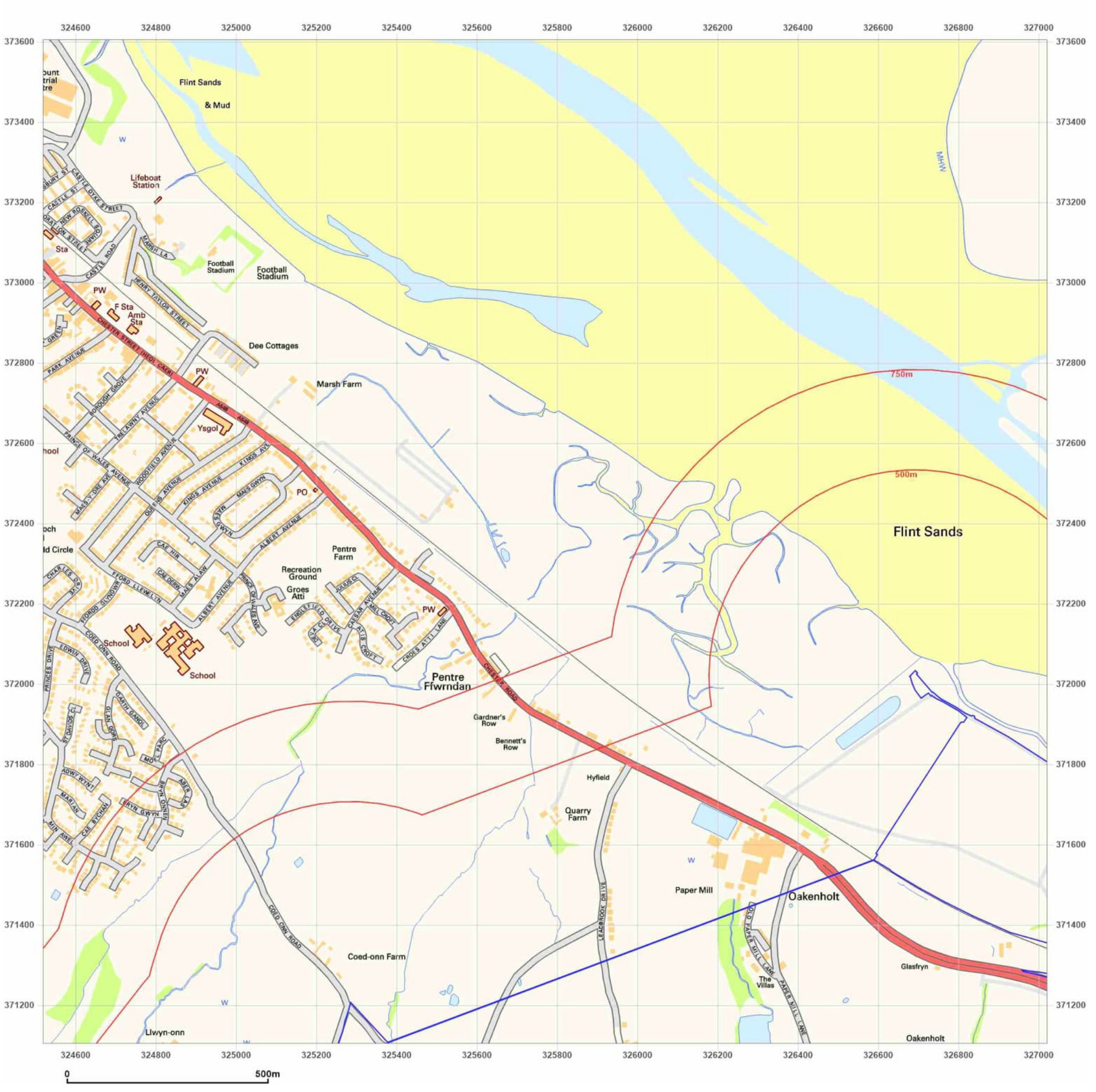
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

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

N
W E
S

2001

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

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

N
W E
S

2010

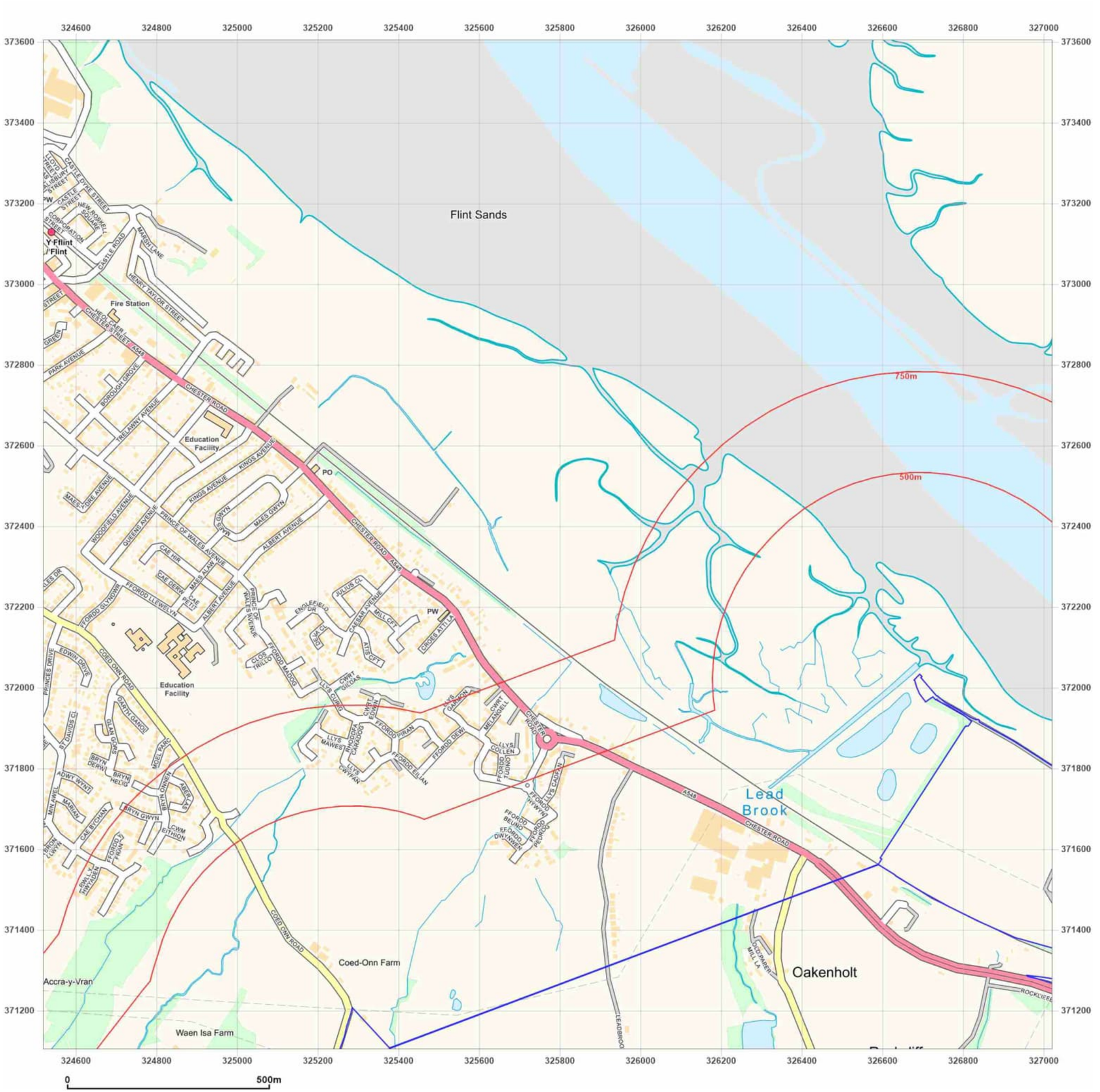
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_1_2
Grid Ref: 325770, 372355

Map Name: National Grid
Map date: **2024**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2024

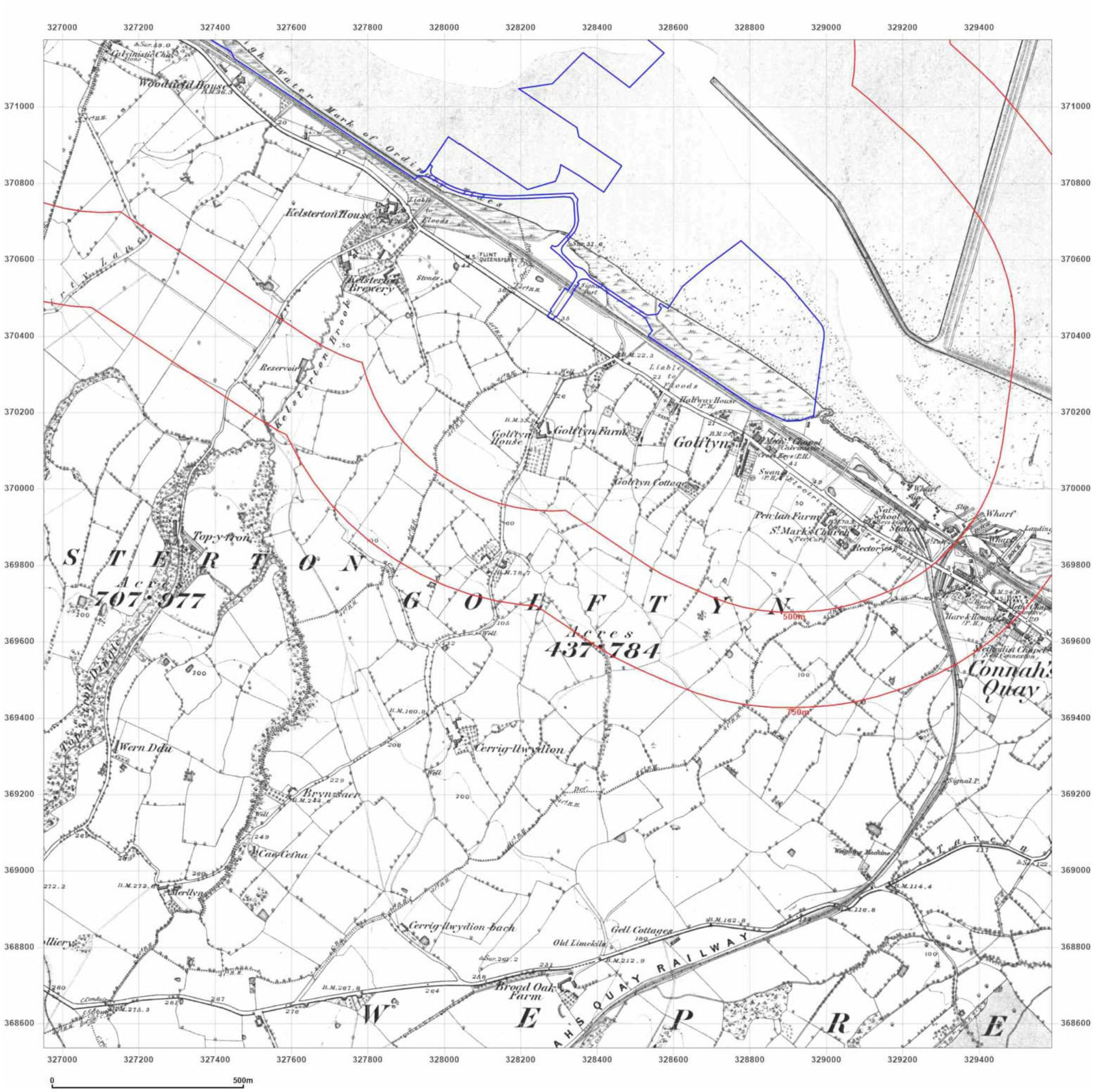
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series
Map date: 1869
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

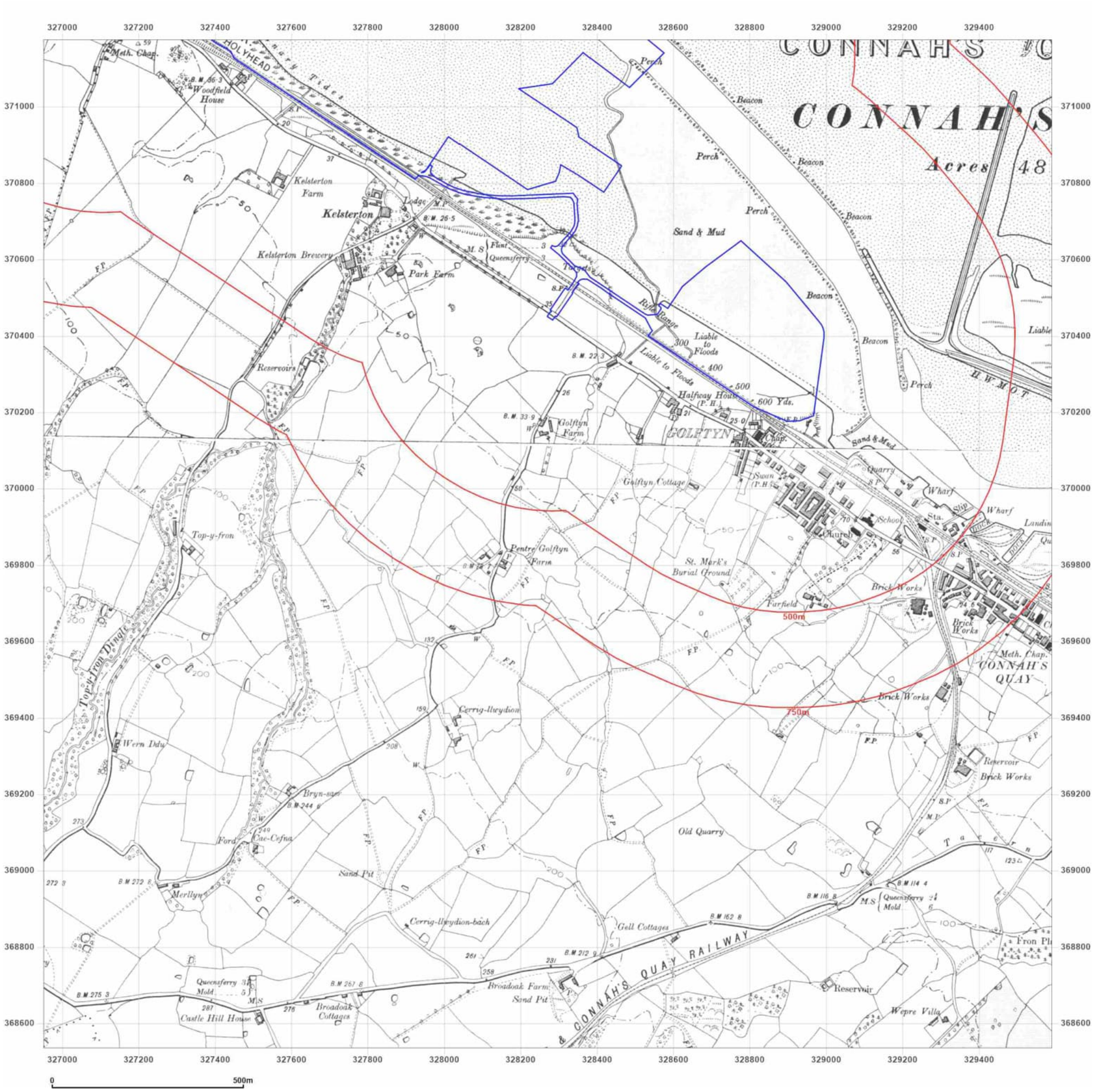
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series

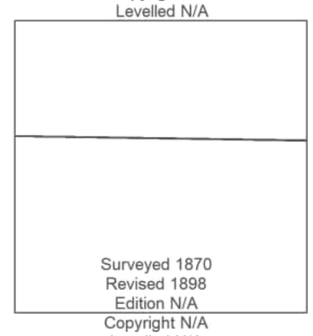
Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1870
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

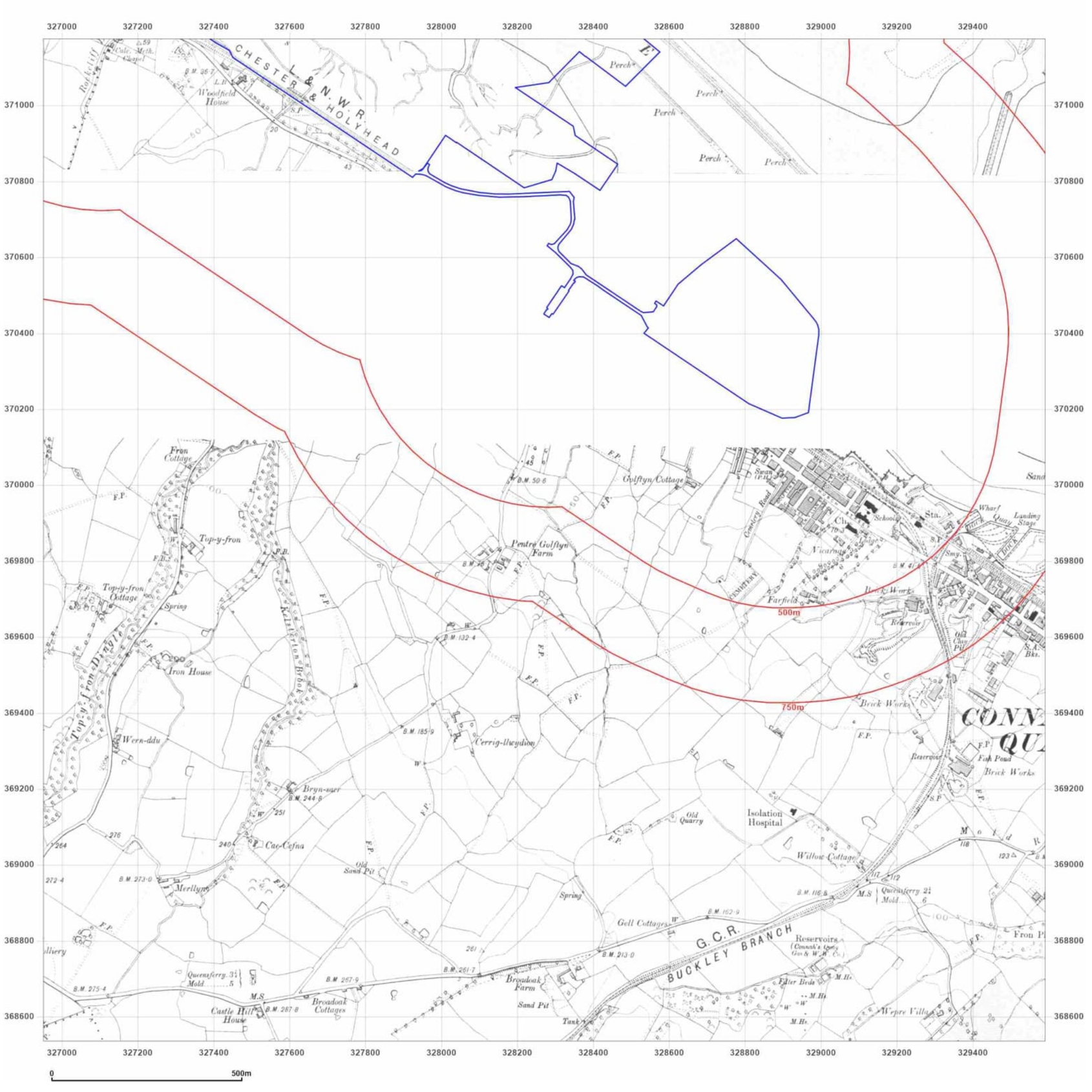
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series

Map date: **1909-1910**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1871
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

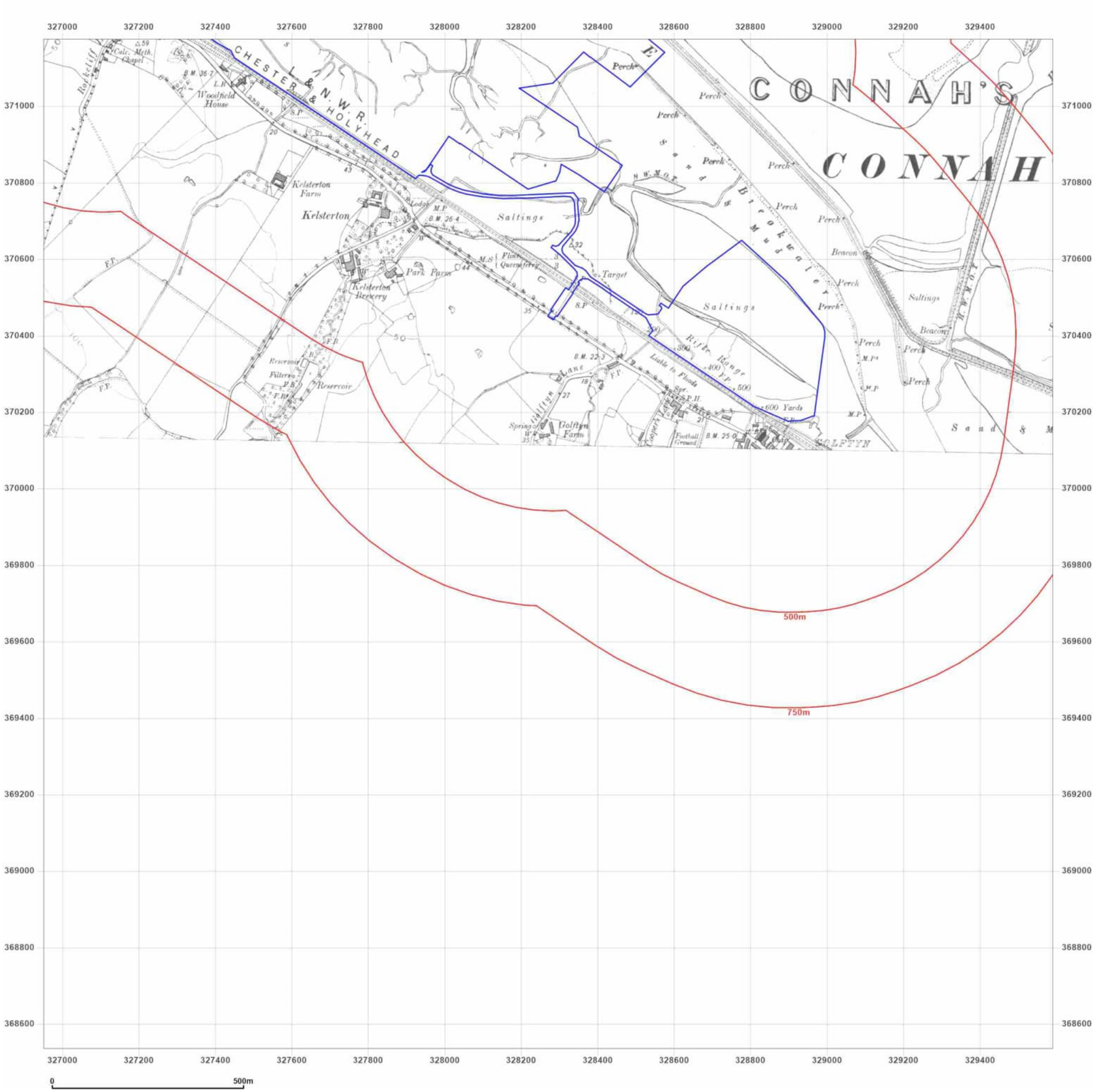
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series

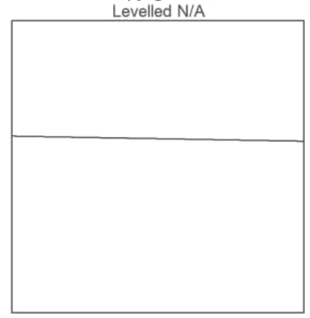
Map date: **1913**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1913
Edition 1913
Copyright N/A
Levelled N/A



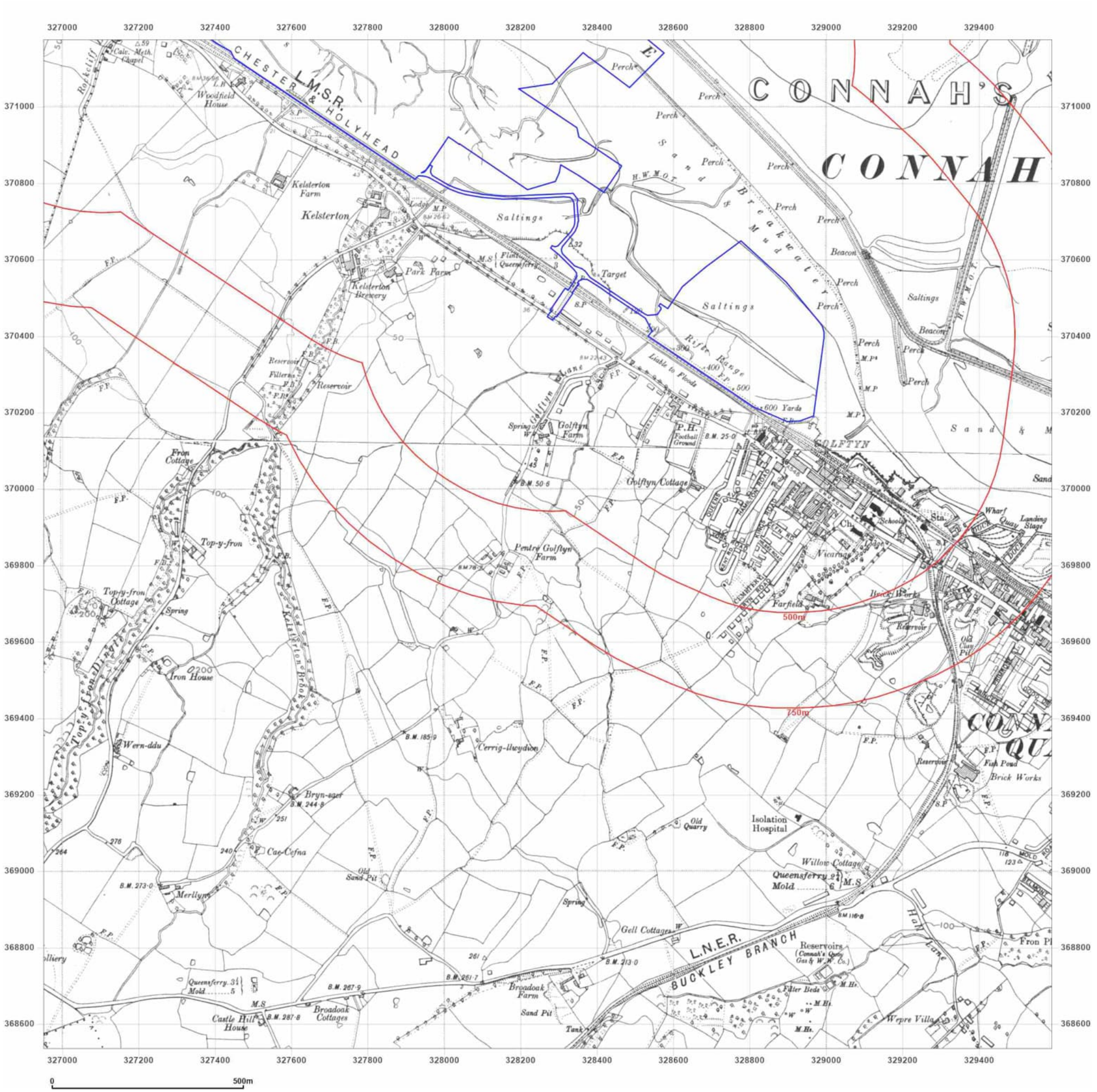
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1869
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

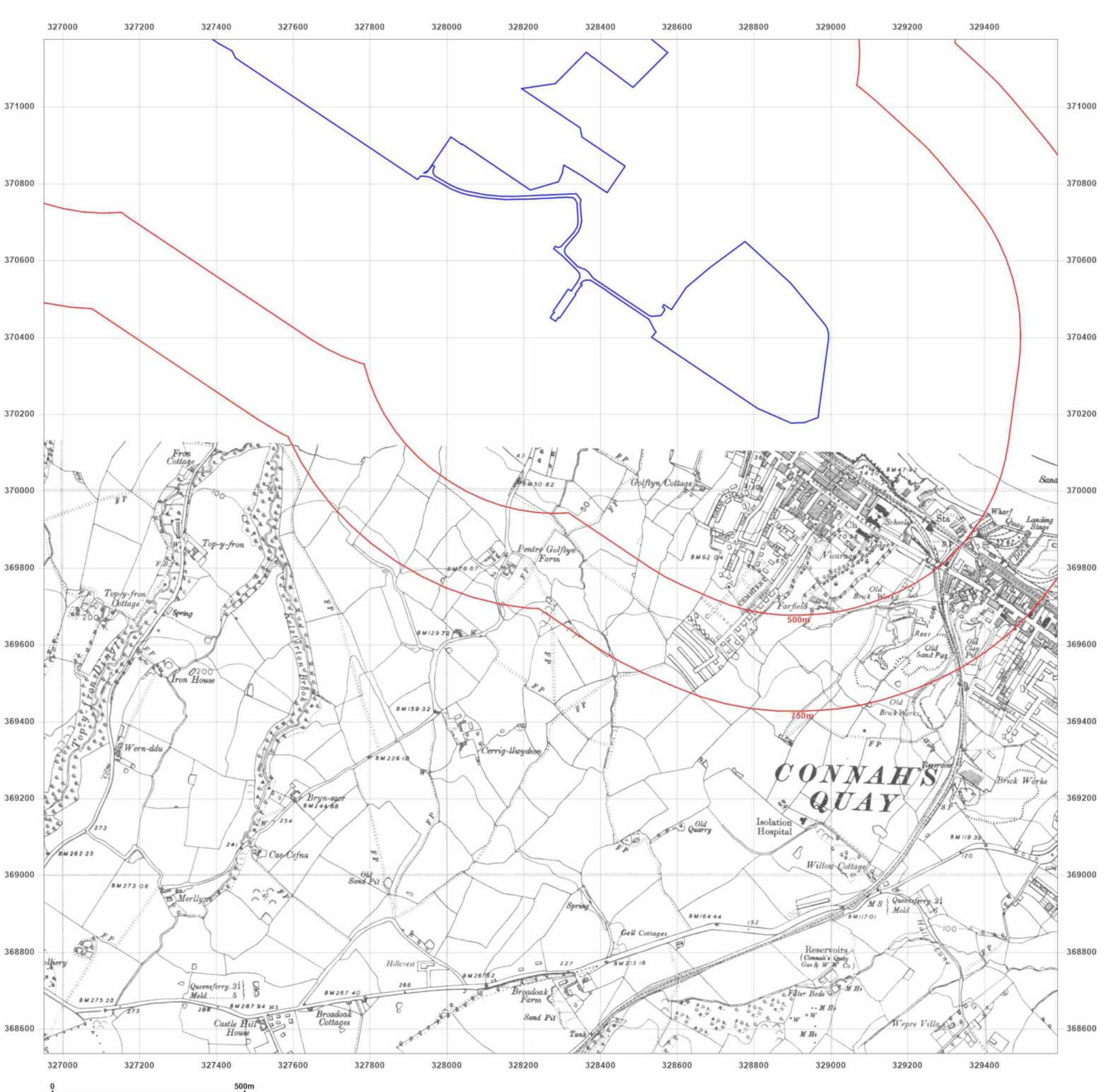
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: County Series
Map date: **1948**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

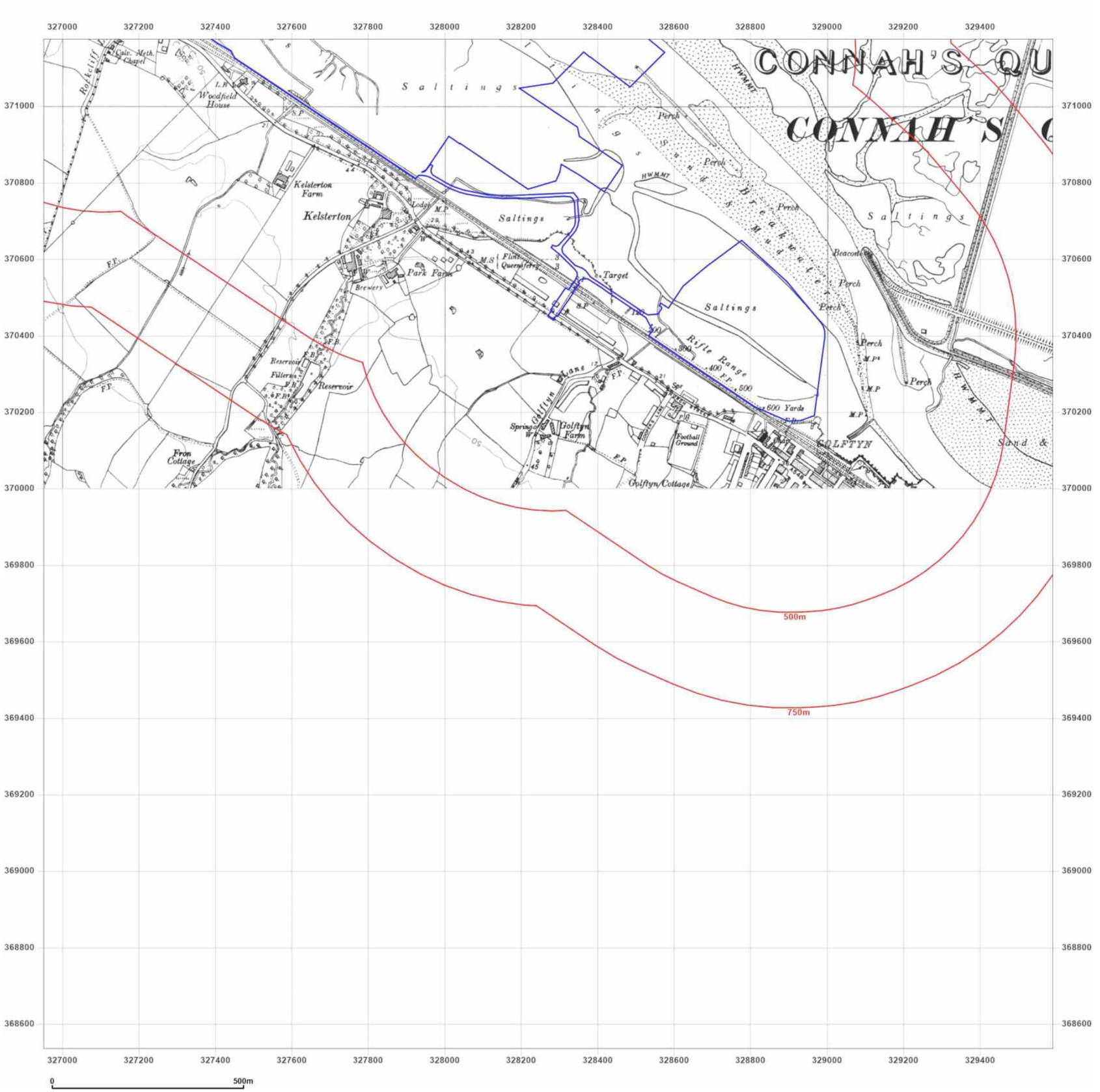
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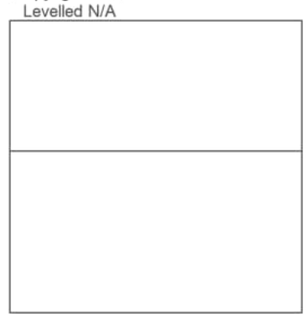
Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: Provisional
Map date: 1953
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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



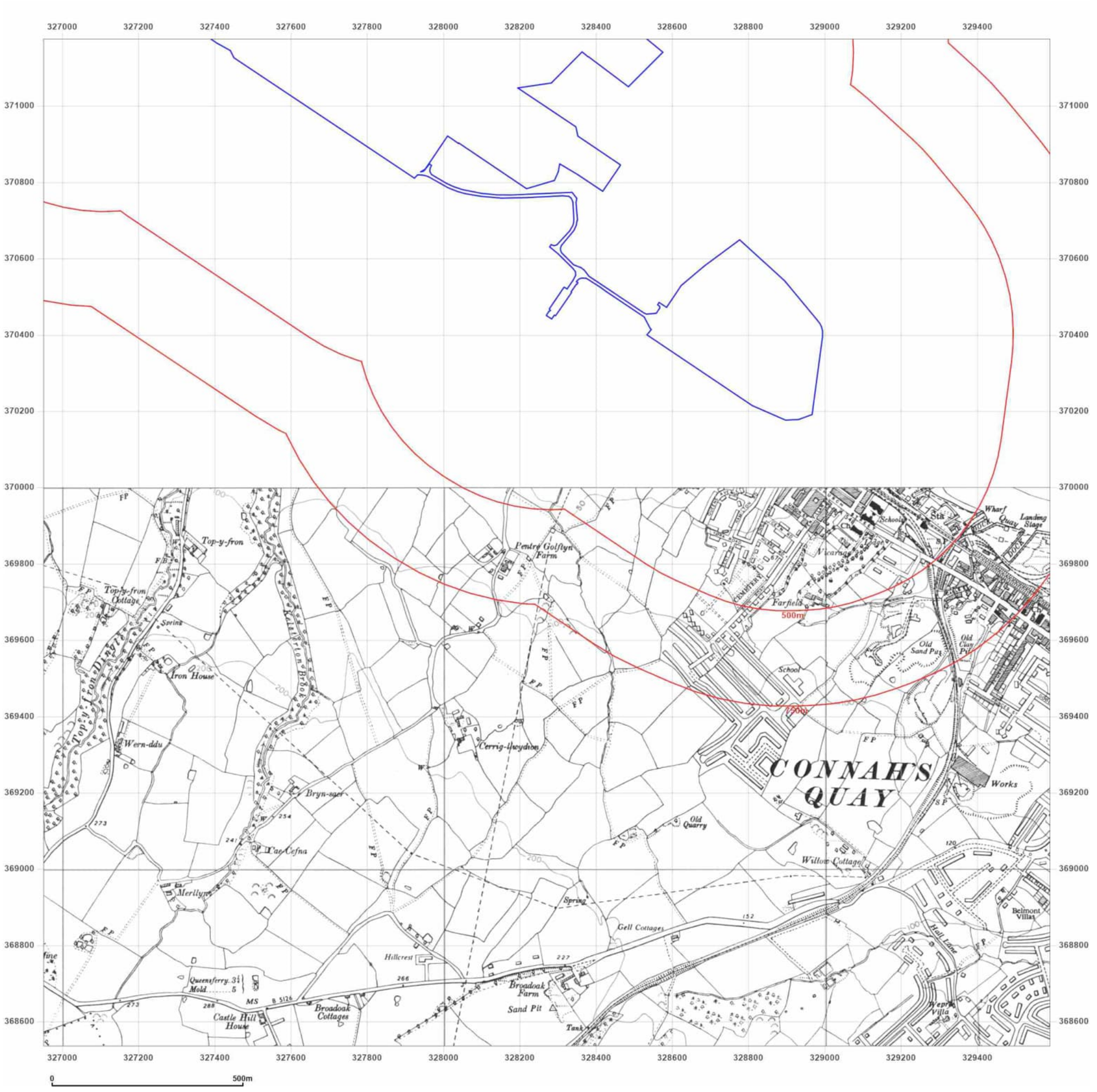
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: Provisional
Map date: **1963**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed N/A
Revised 1962
Edition N/A
Copyright 1963
Levelled N/A

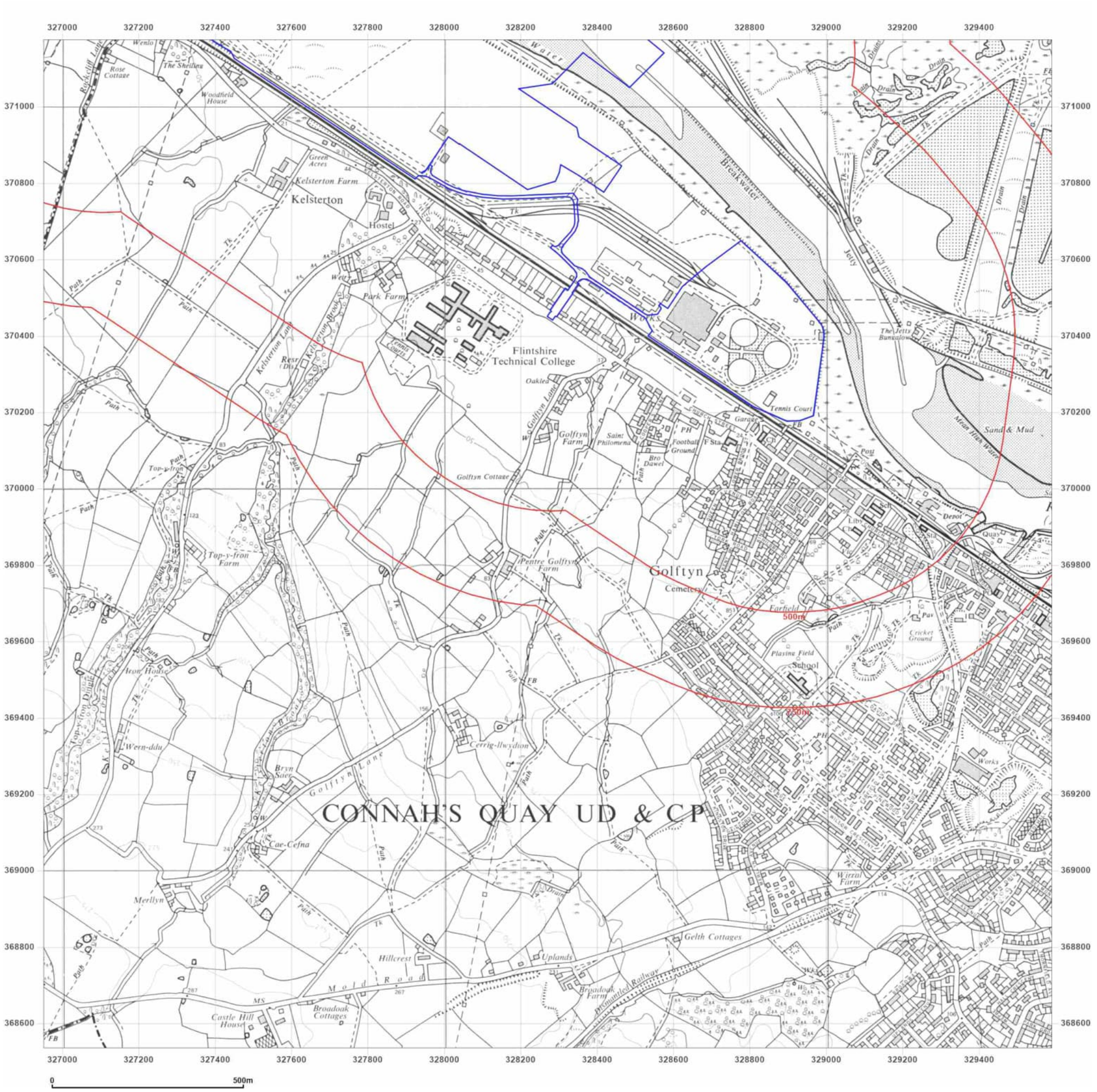
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: Provisional
Map date: **1969-1970**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1962
Revised 1968
Edition N/A
Copyright 1969
Levelled N/A

Surveyed 1966
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

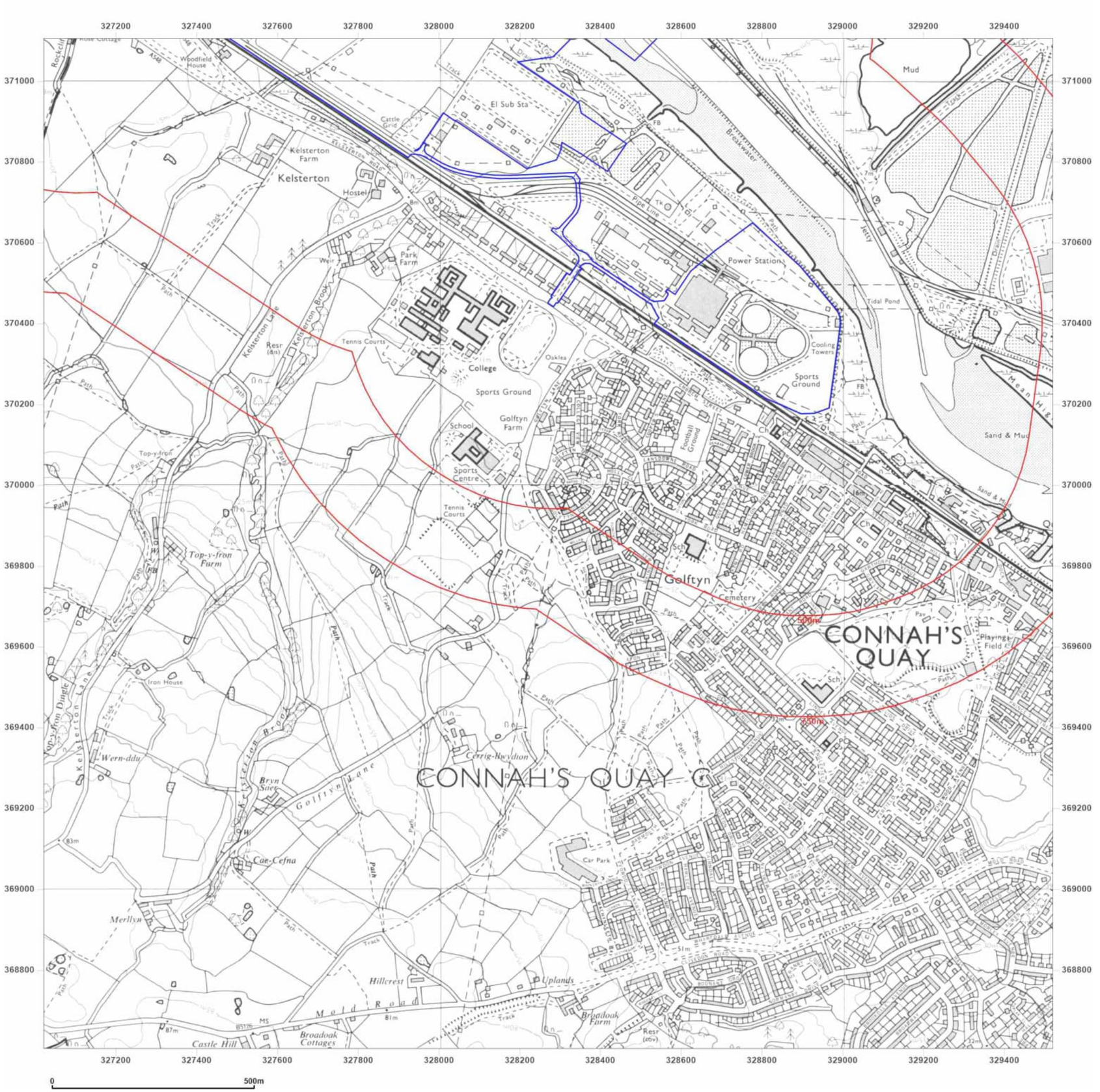
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1981
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1979
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

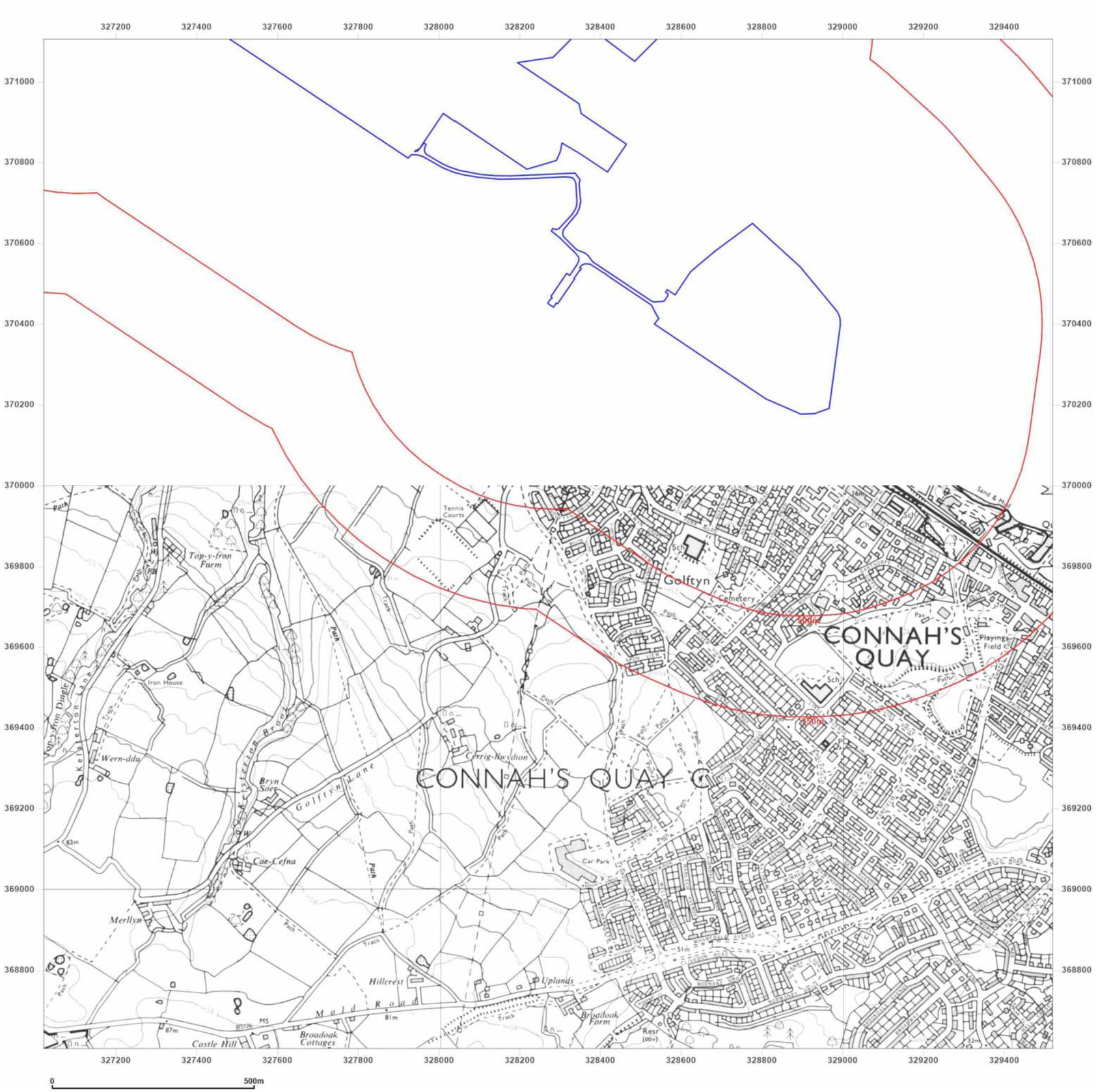
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: National Grid
Map date: **1987**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

Surveyed 1979
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

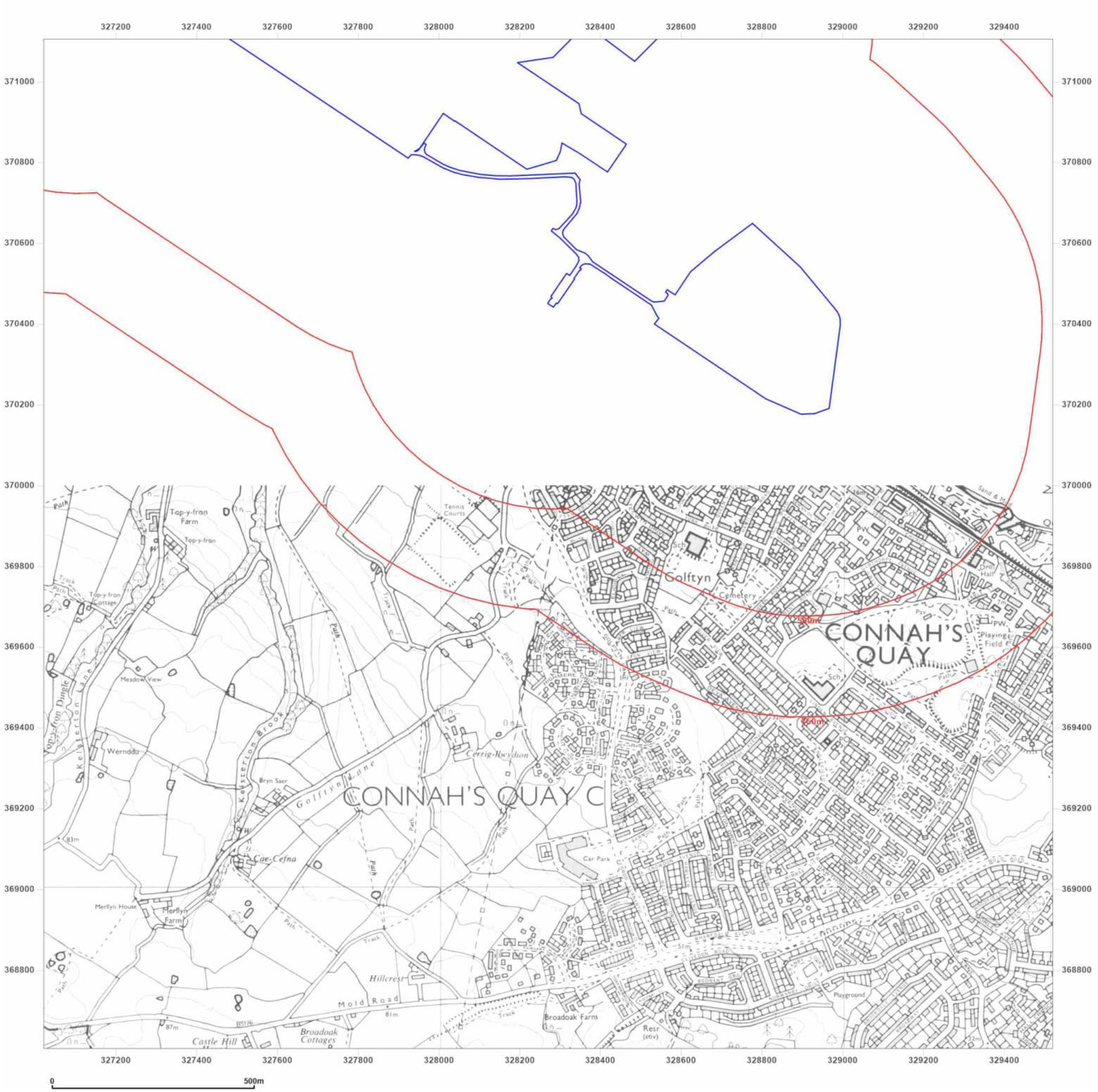
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: National Grid
Map date: 1991
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

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

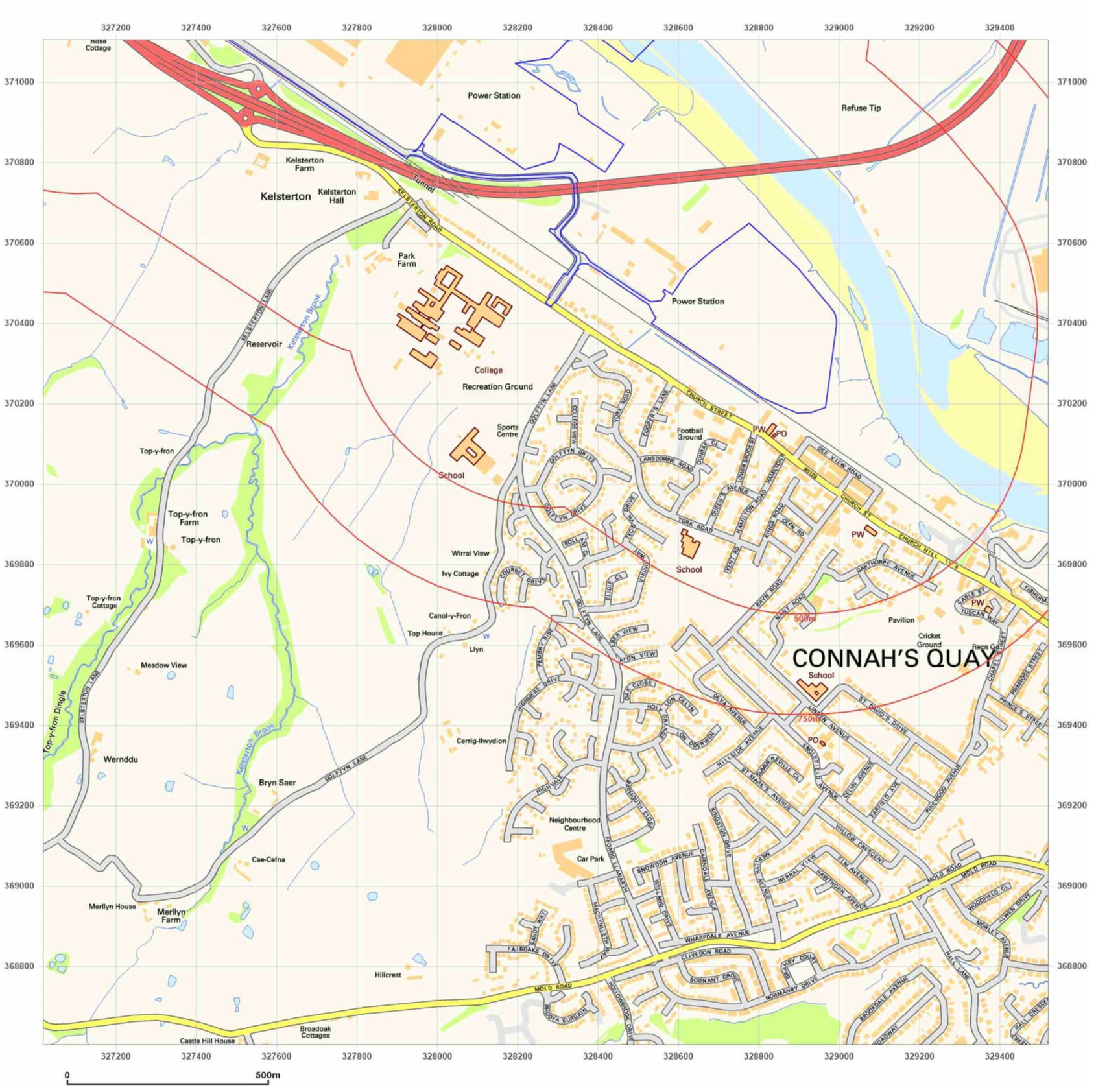
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

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

N
W E
S

2001

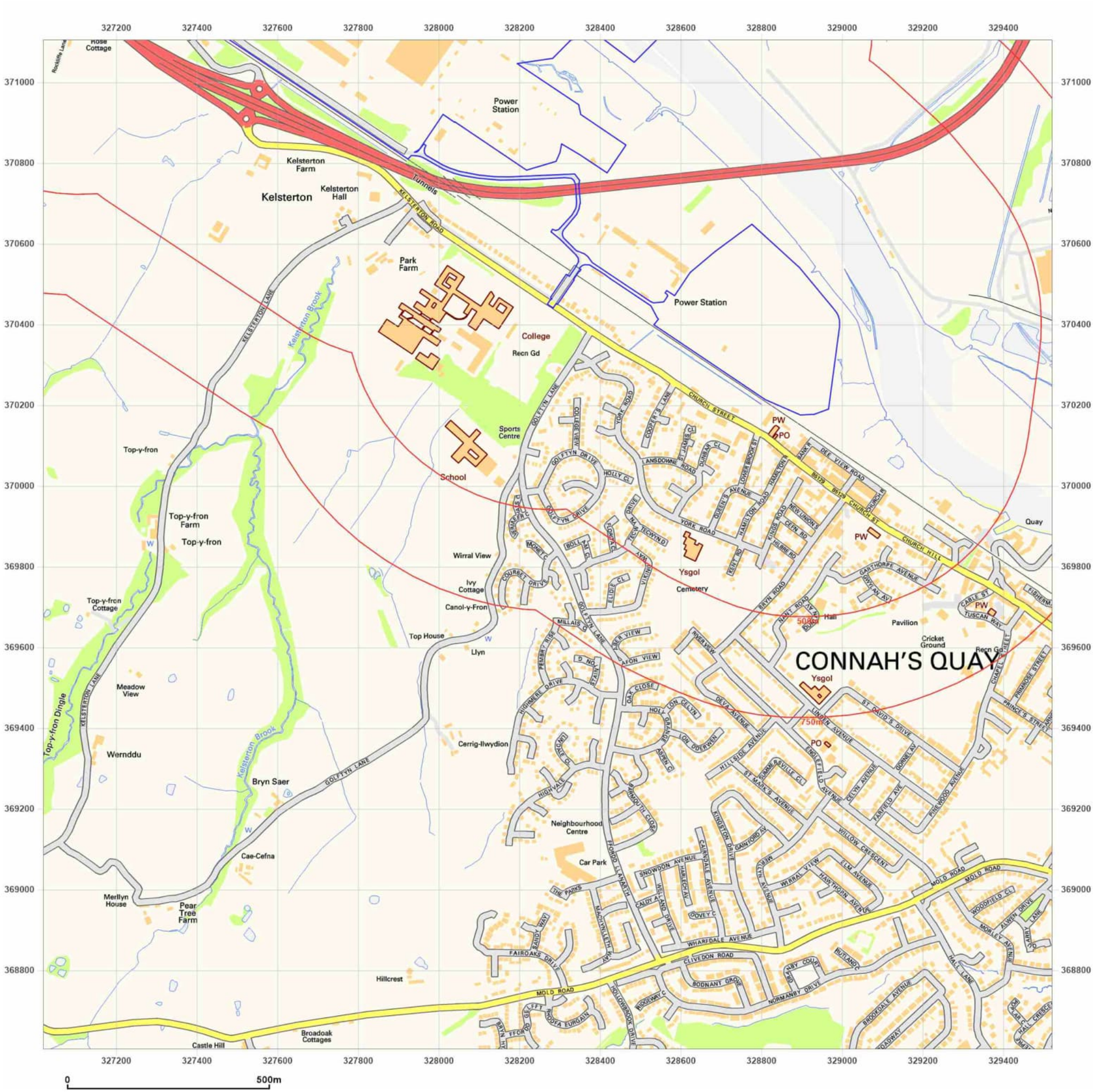
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

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

N
W E
S

2010

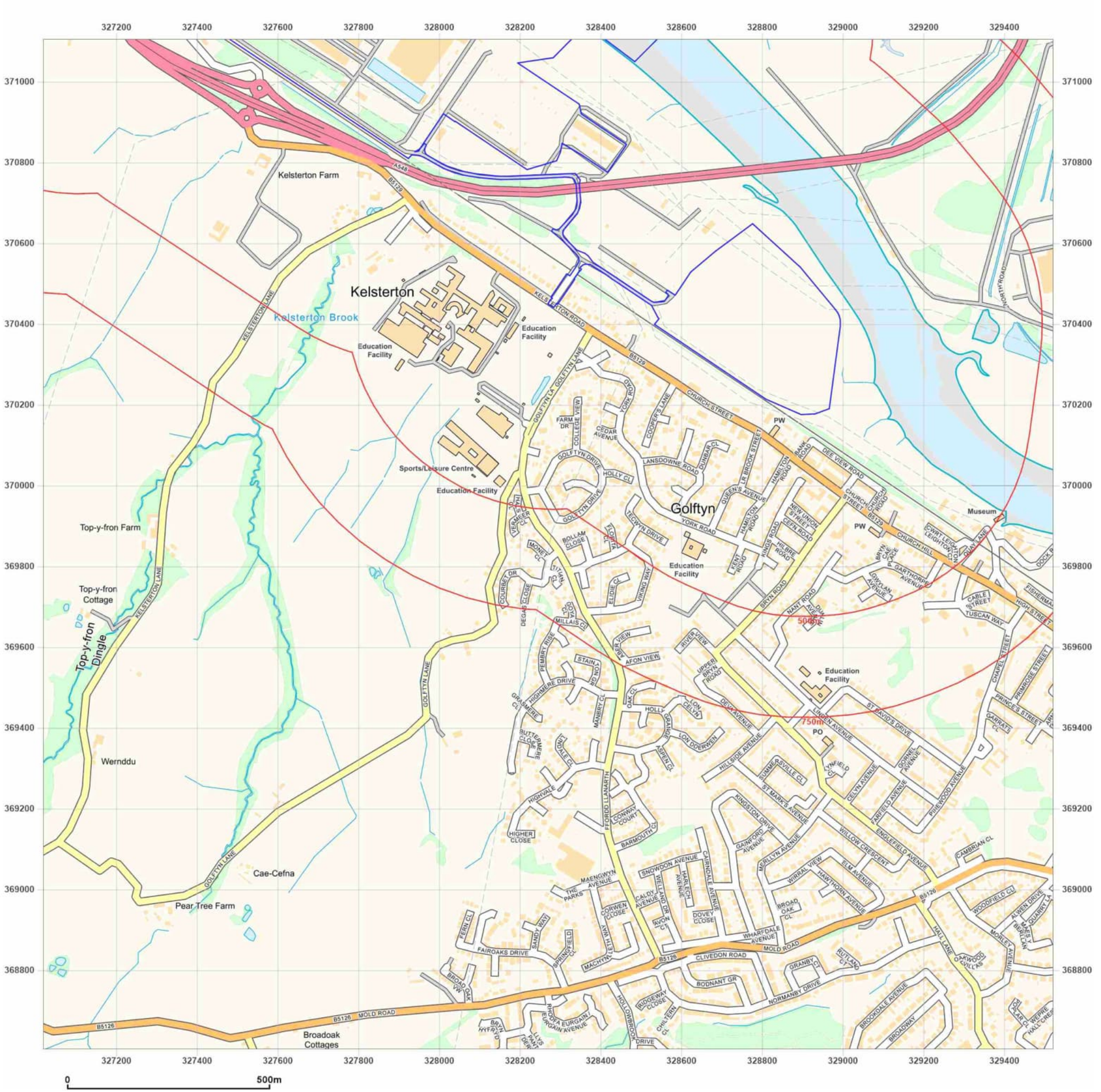
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_1
Grid Ref: 328270, 369855

Map Name: National Grid
Map date: 2024
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2024

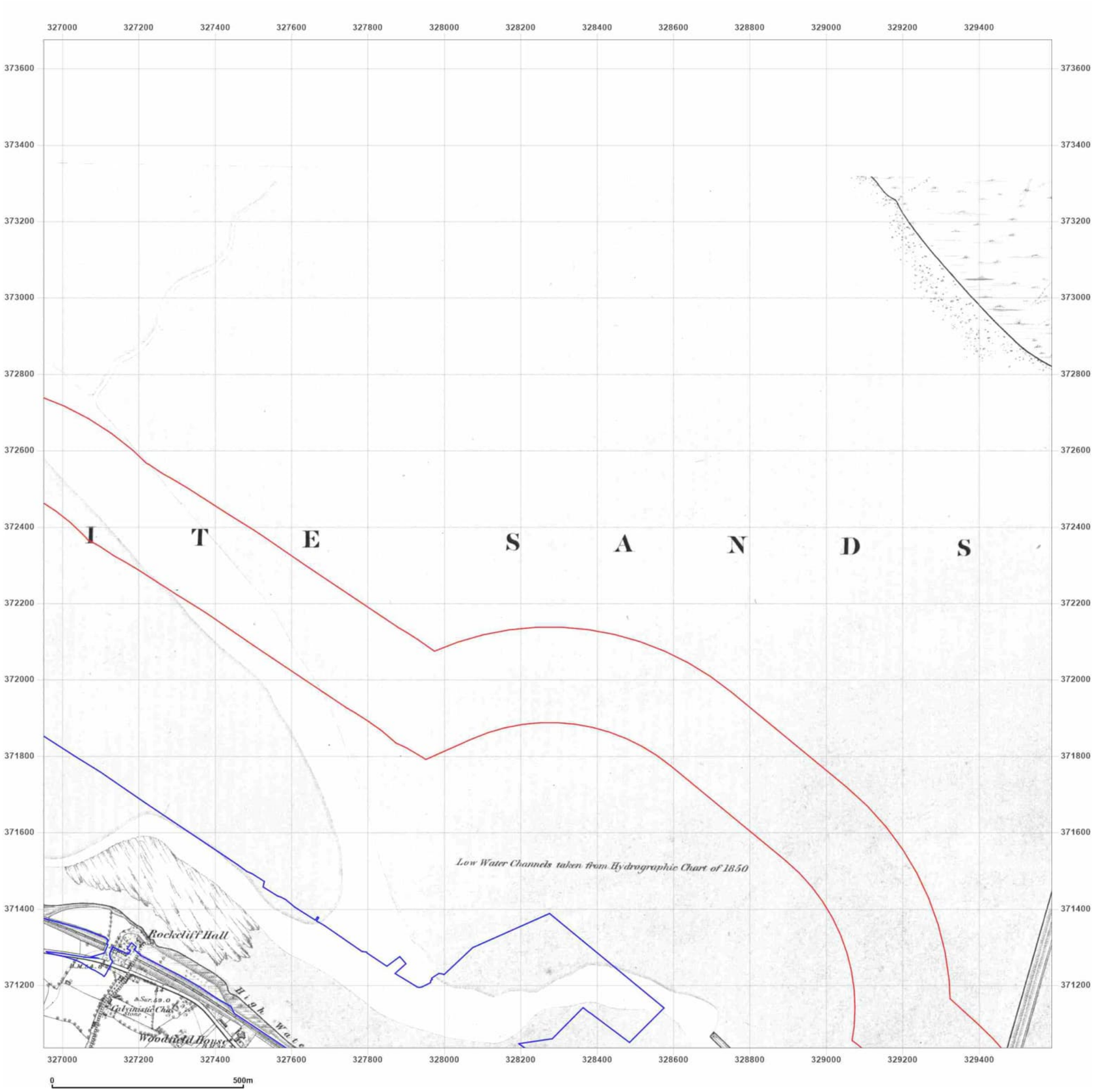
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Production date: 07 March 2024

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: 1869
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

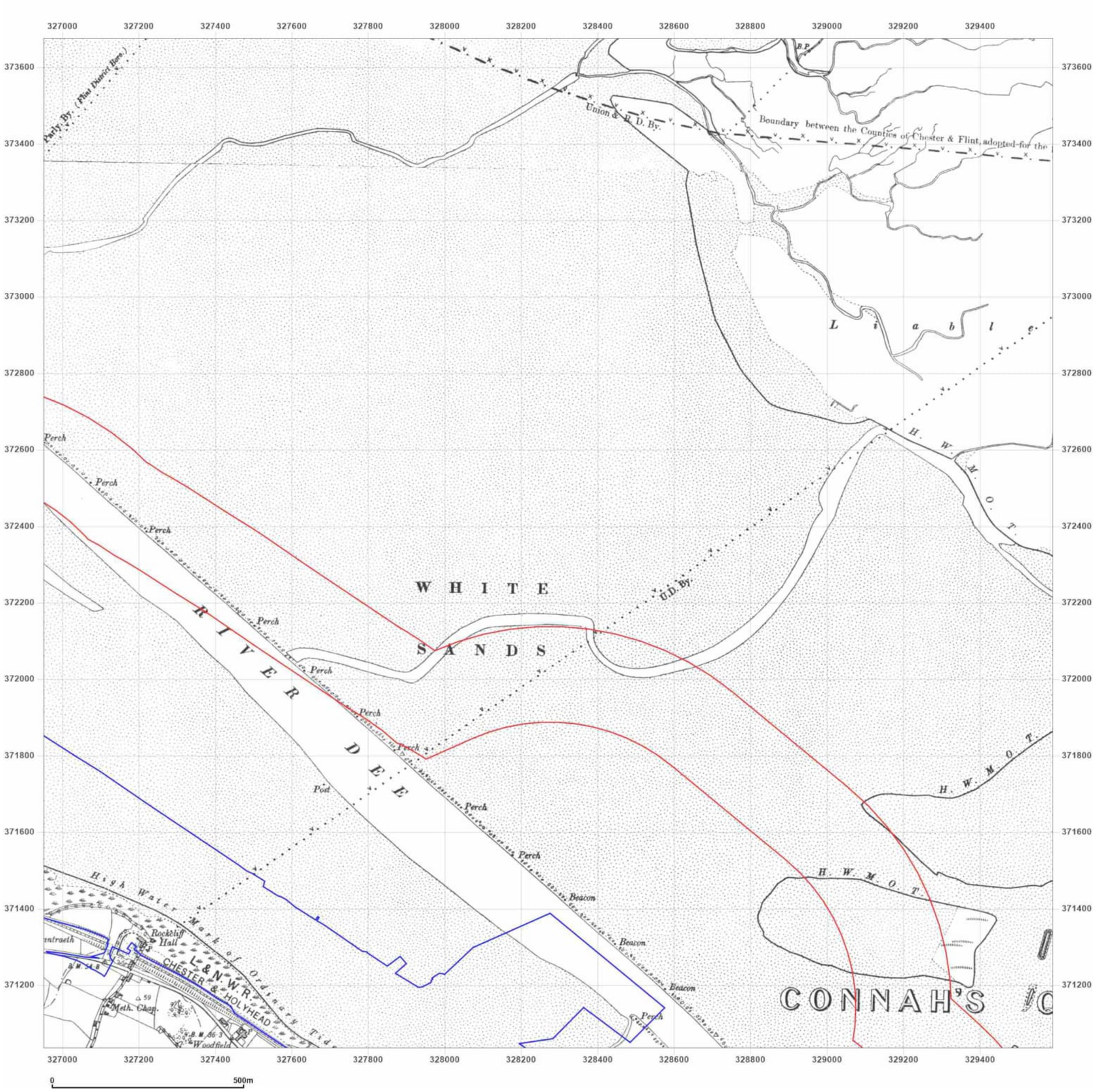
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Production date: 07 March 2024

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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: **1898**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1873
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

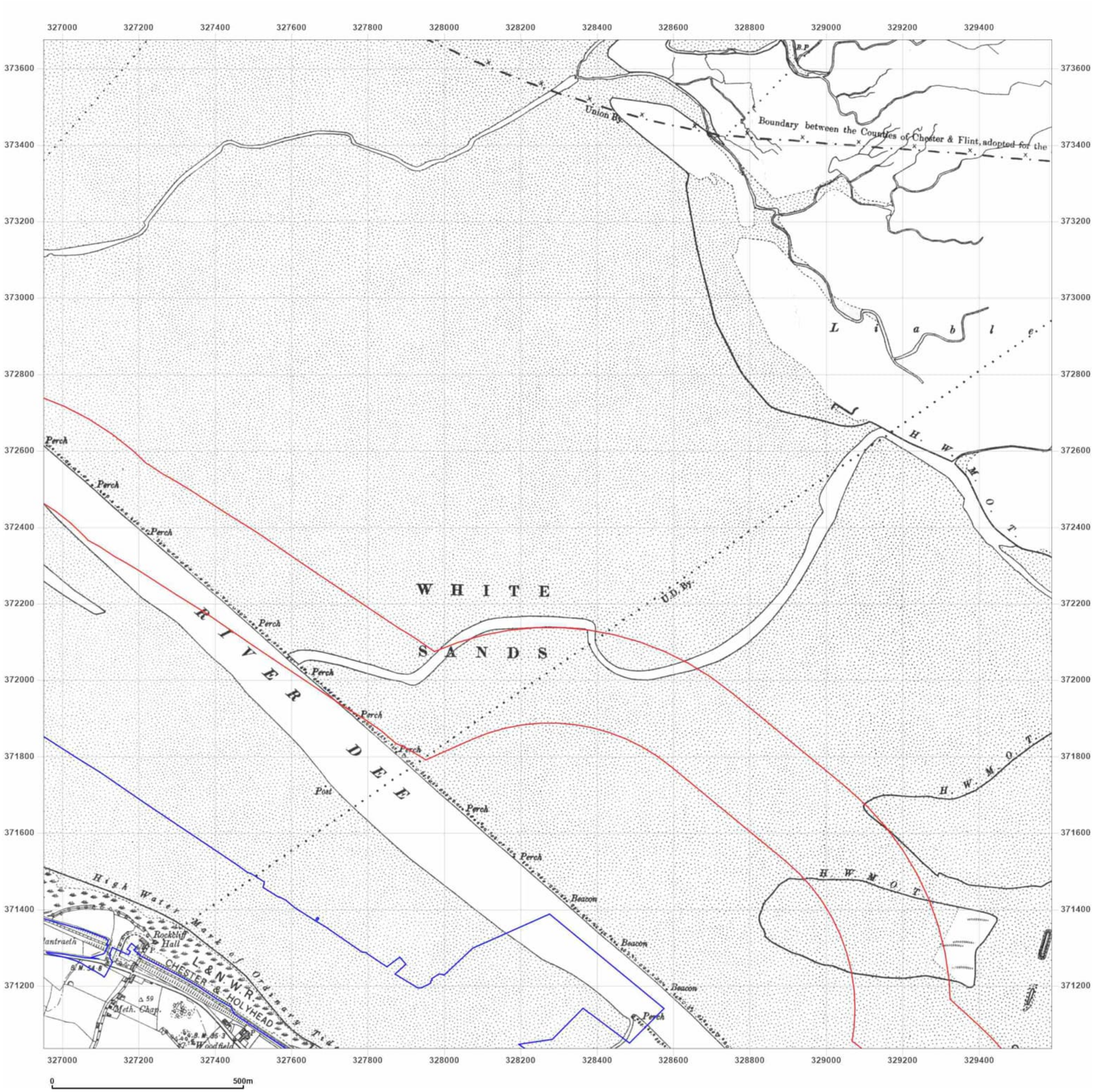
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: 1898
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1872
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

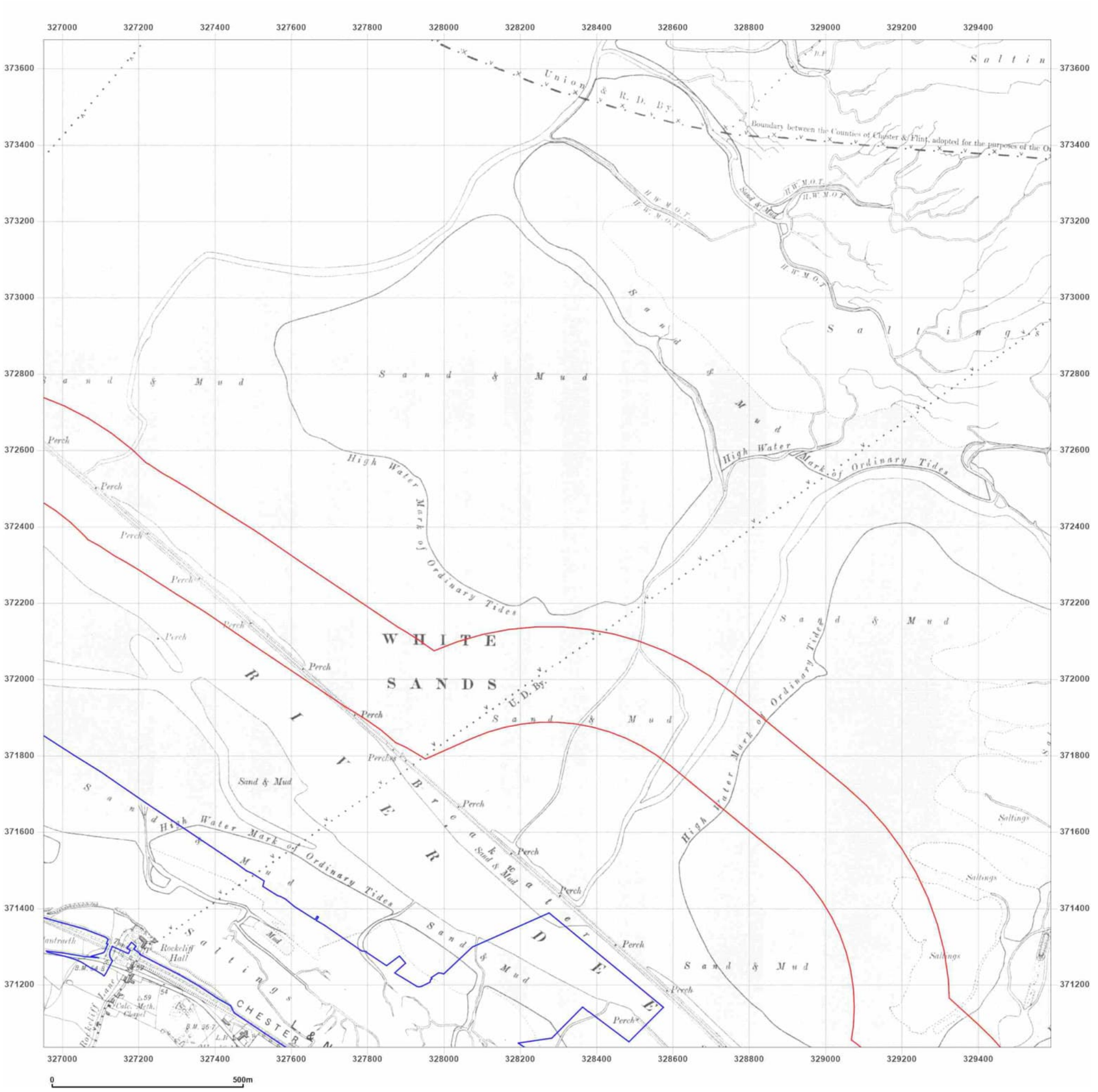
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: 1909
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1871
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

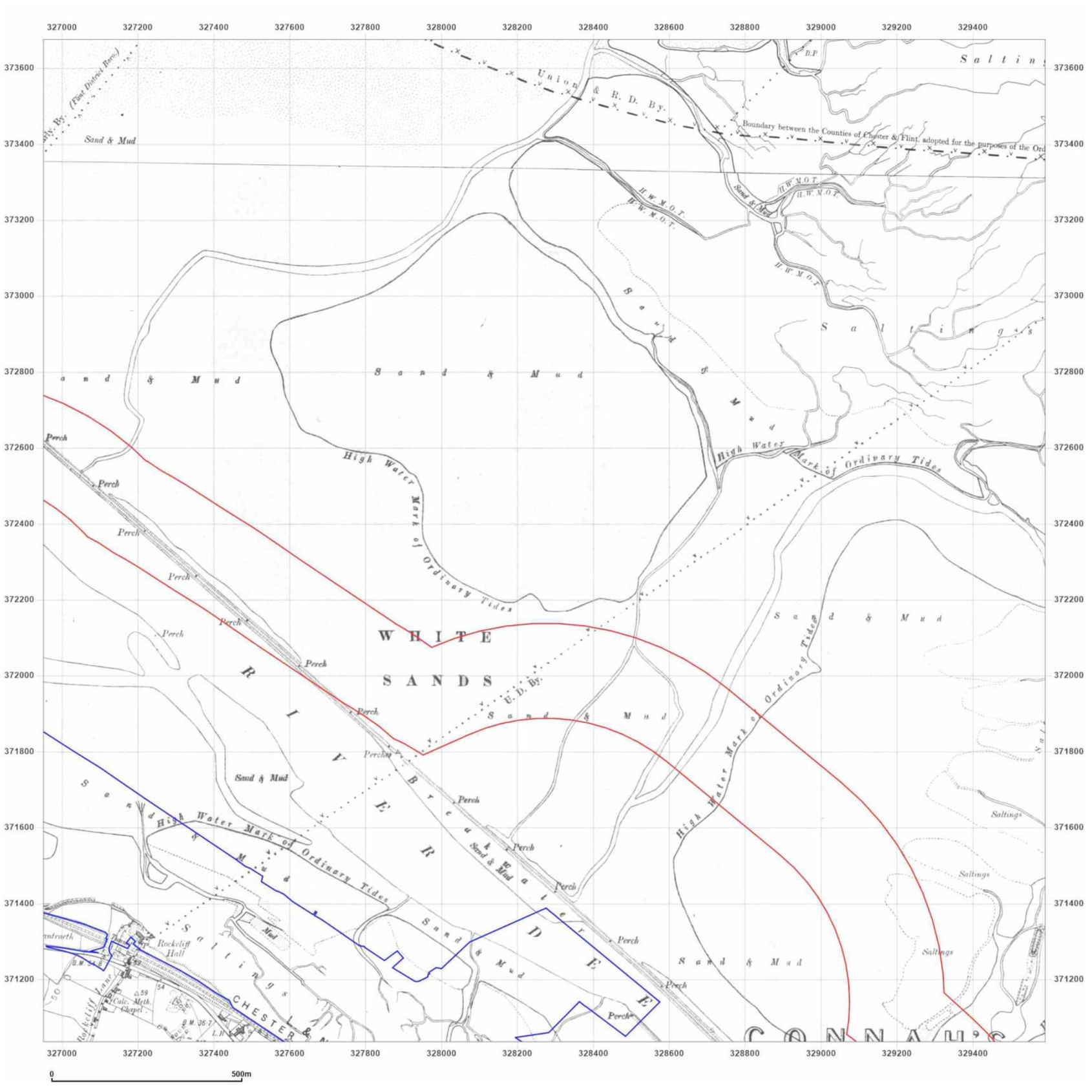
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series

Map date: **1913-1914**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1913
Edition 1913
Copyright N/A
Levelled N/A

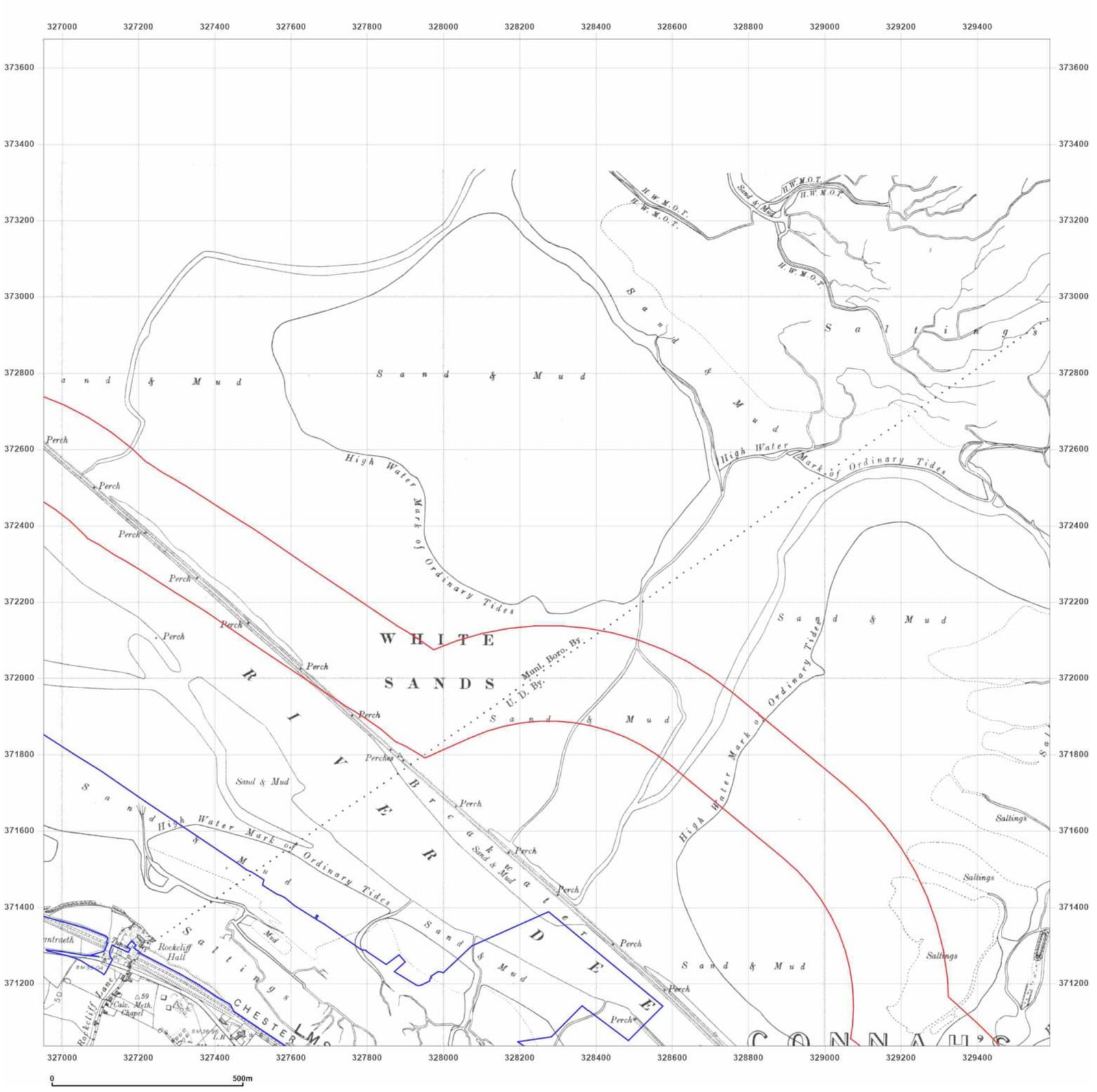
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Production date: 07 March 2024

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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

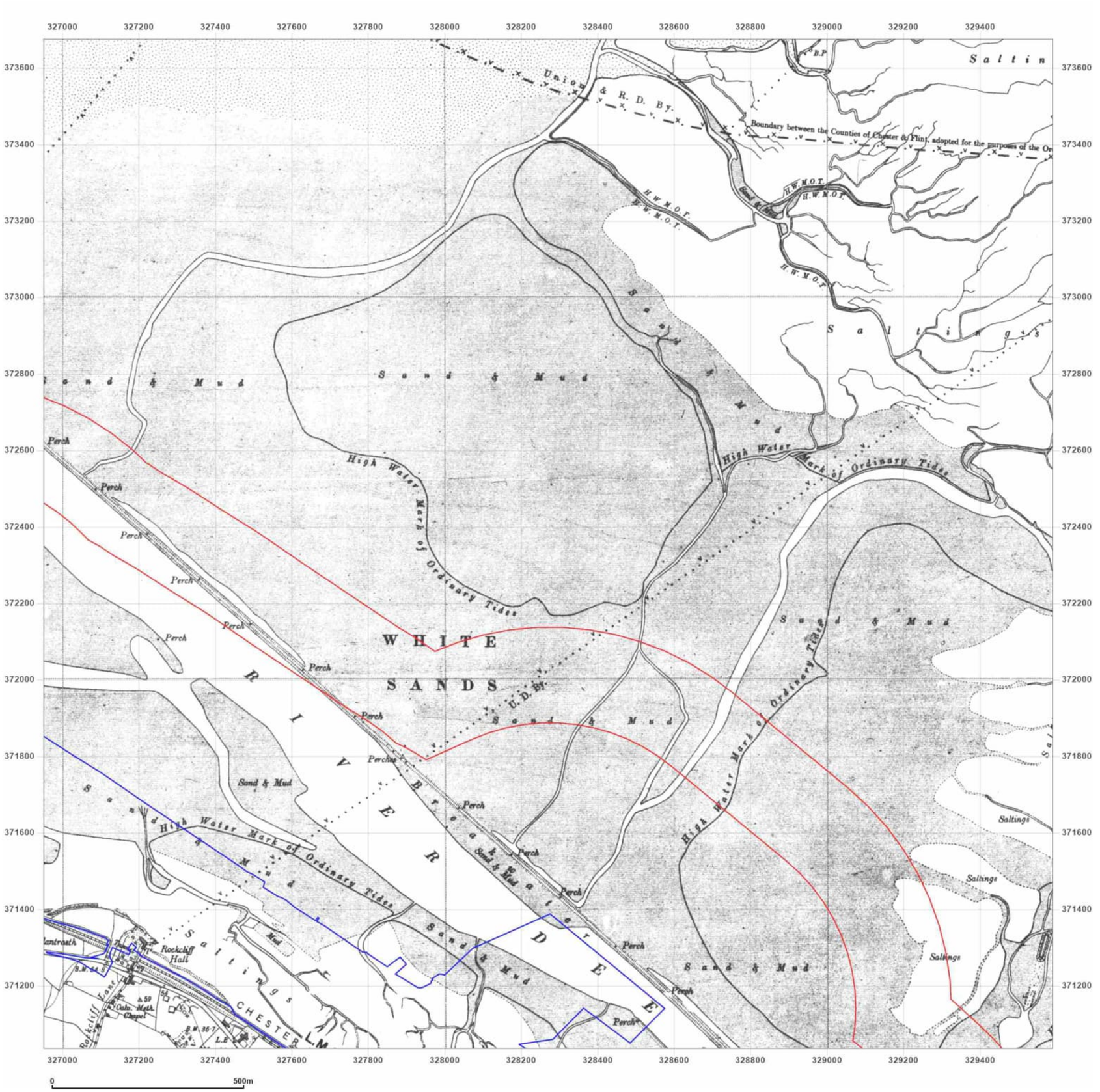
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

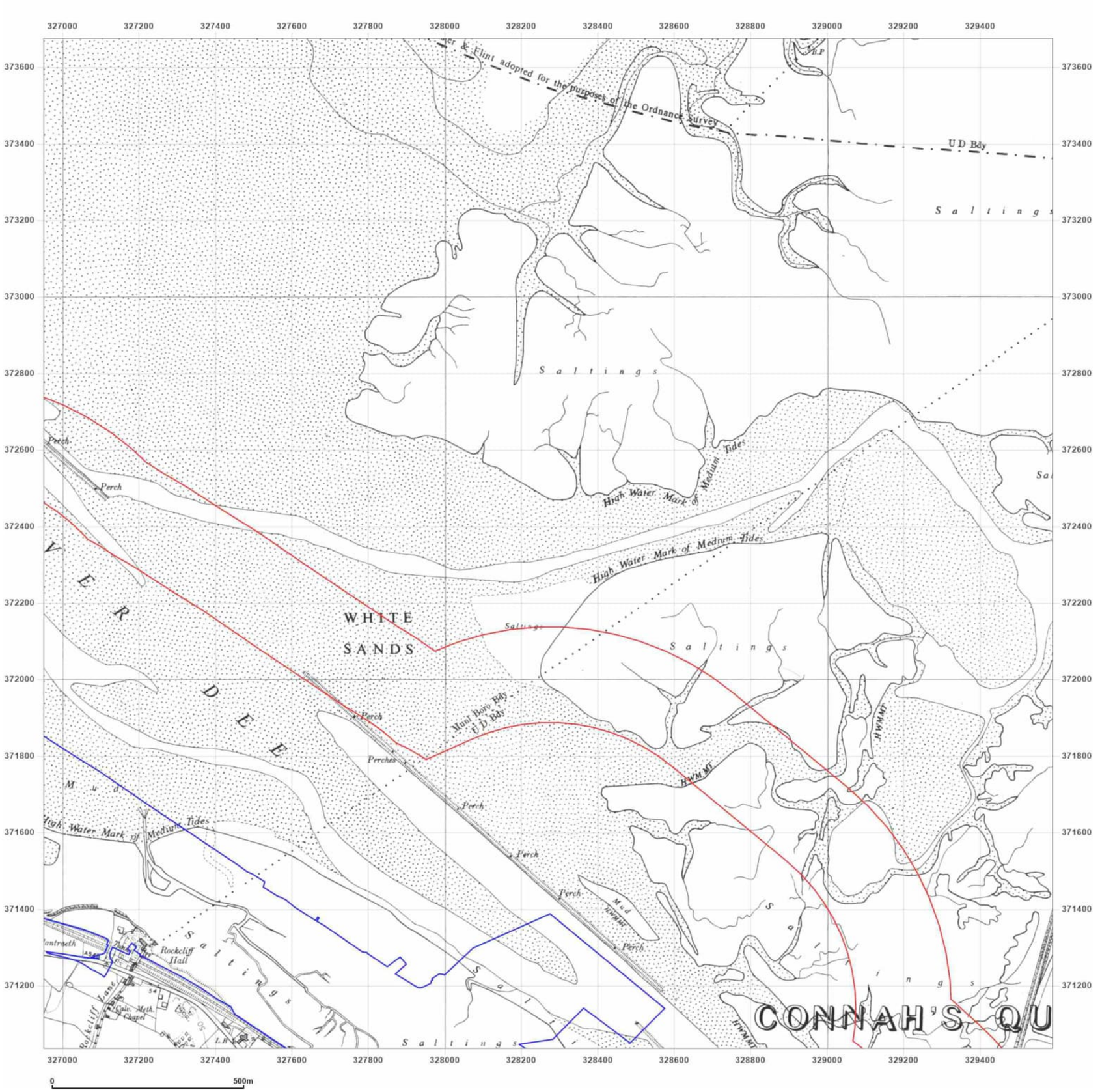
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: Provisional
Map date: 1953
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

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

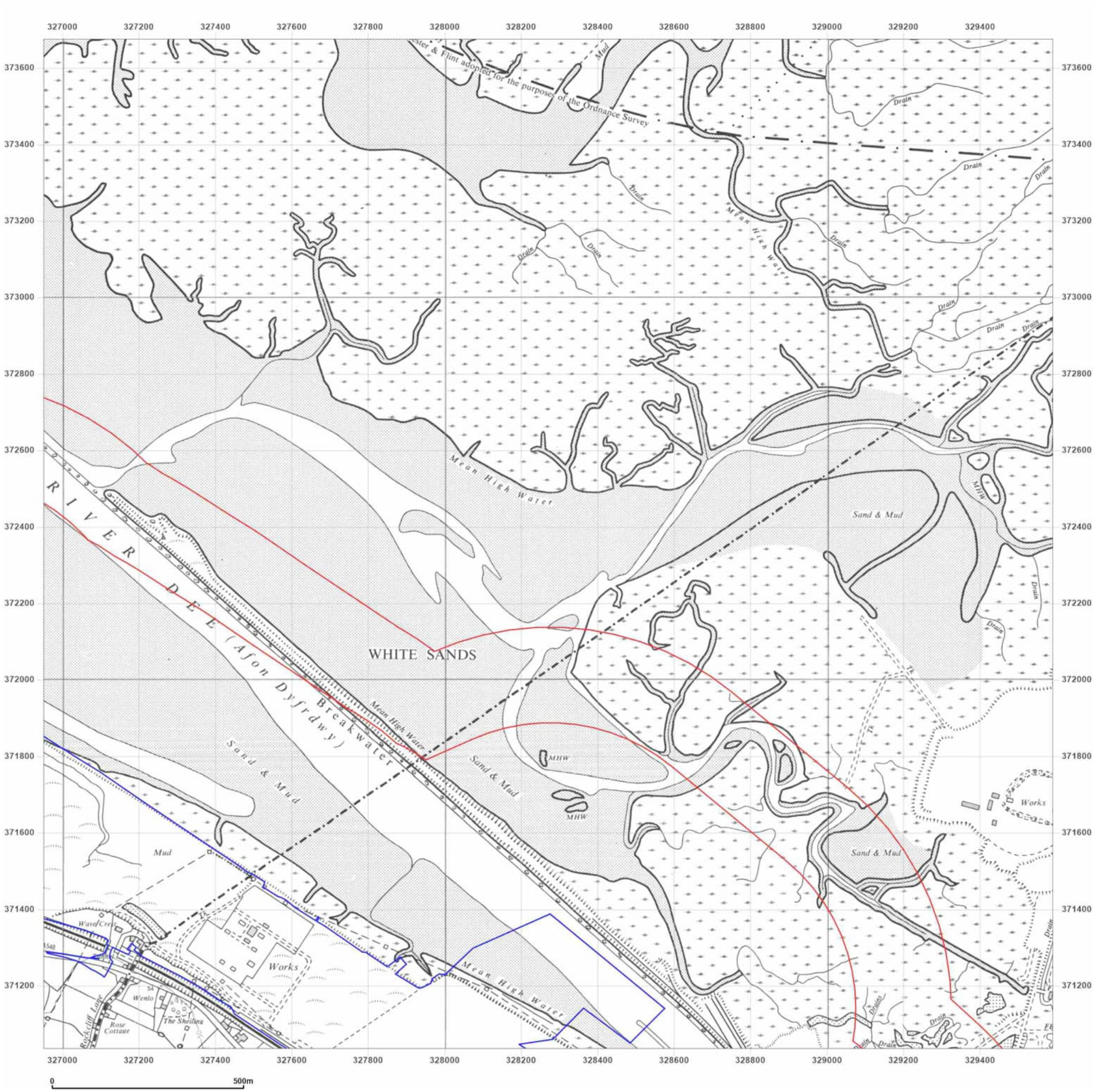
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Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: Provisional
Map date: 1969
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1962
Revised 1968
Edition N/A
Copyright 1969
Levelled N/A

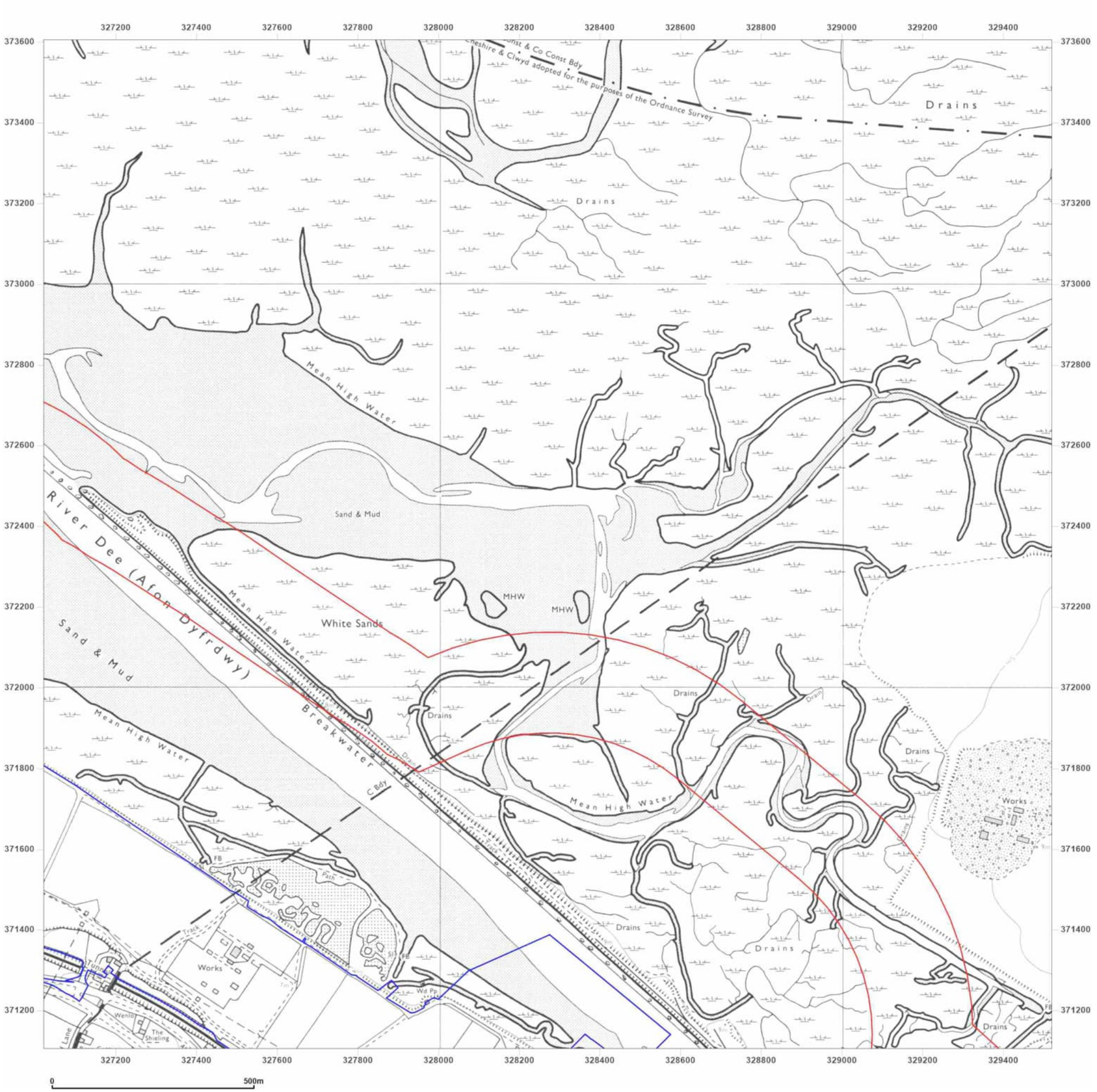
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: National Grid
Map date: **1981**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

Surveyed 1981
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

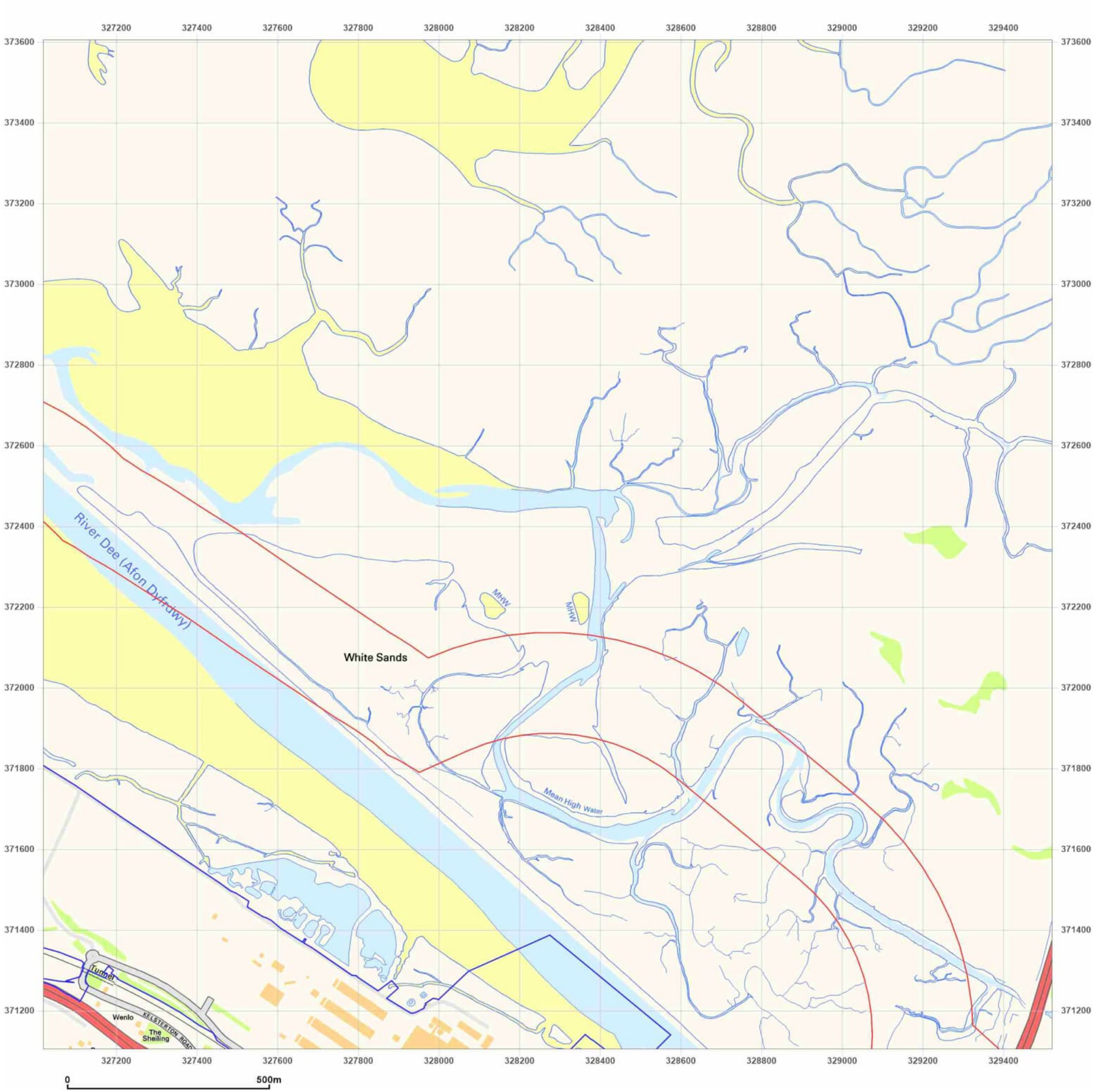
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

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

N
W E
S

2001

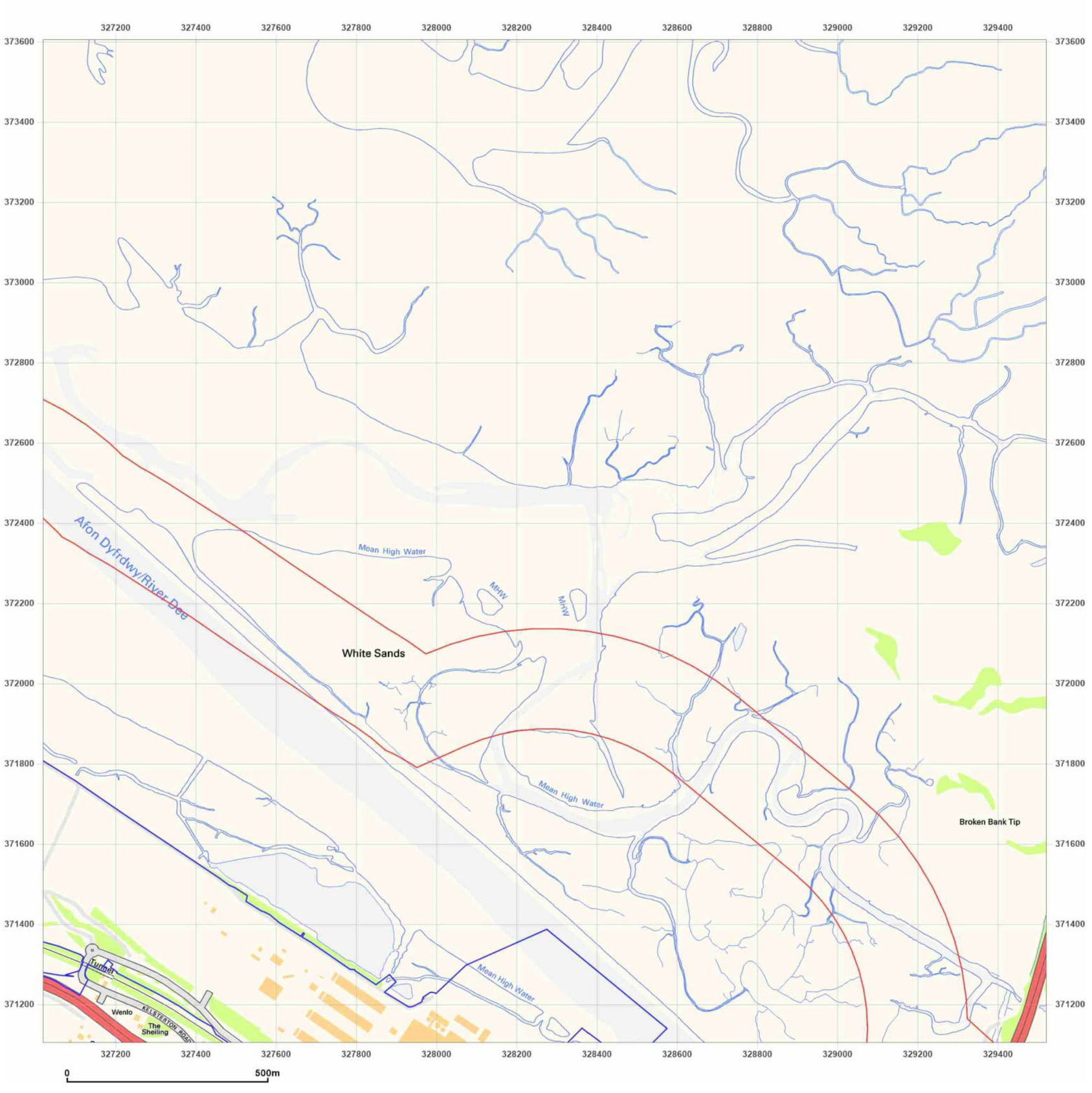
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

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

N
W E
S

2010

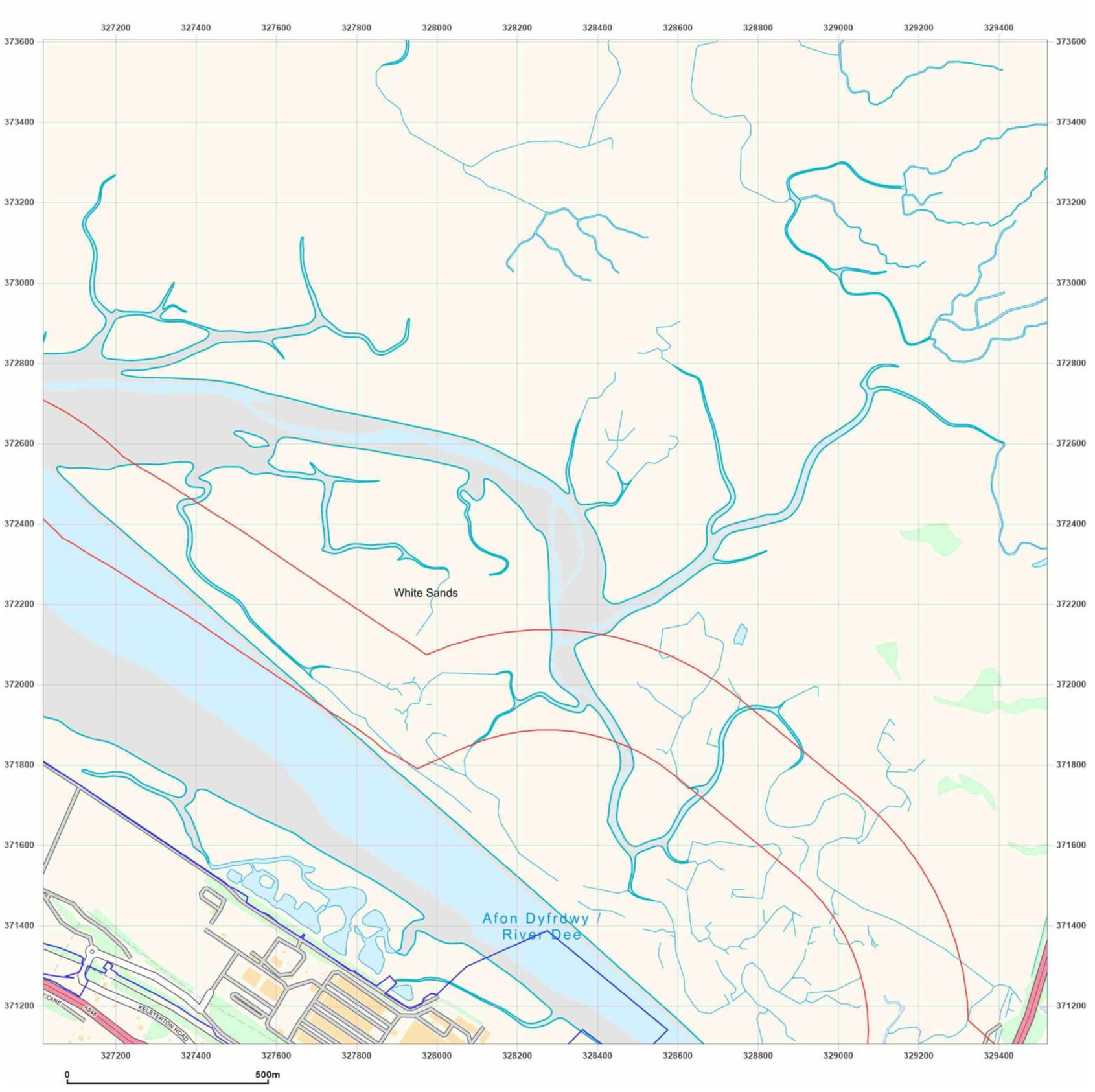
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Groundsure INSIGHTS

Site Details:

Connors Quay Updated

Client Ref: Connors Quay Updated
Report Ref: GSIP-2023-13855-17626_SS_2_2
Grid Ref: 328270, 372355

Map Name: National Grid
Map date: 2024
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2024

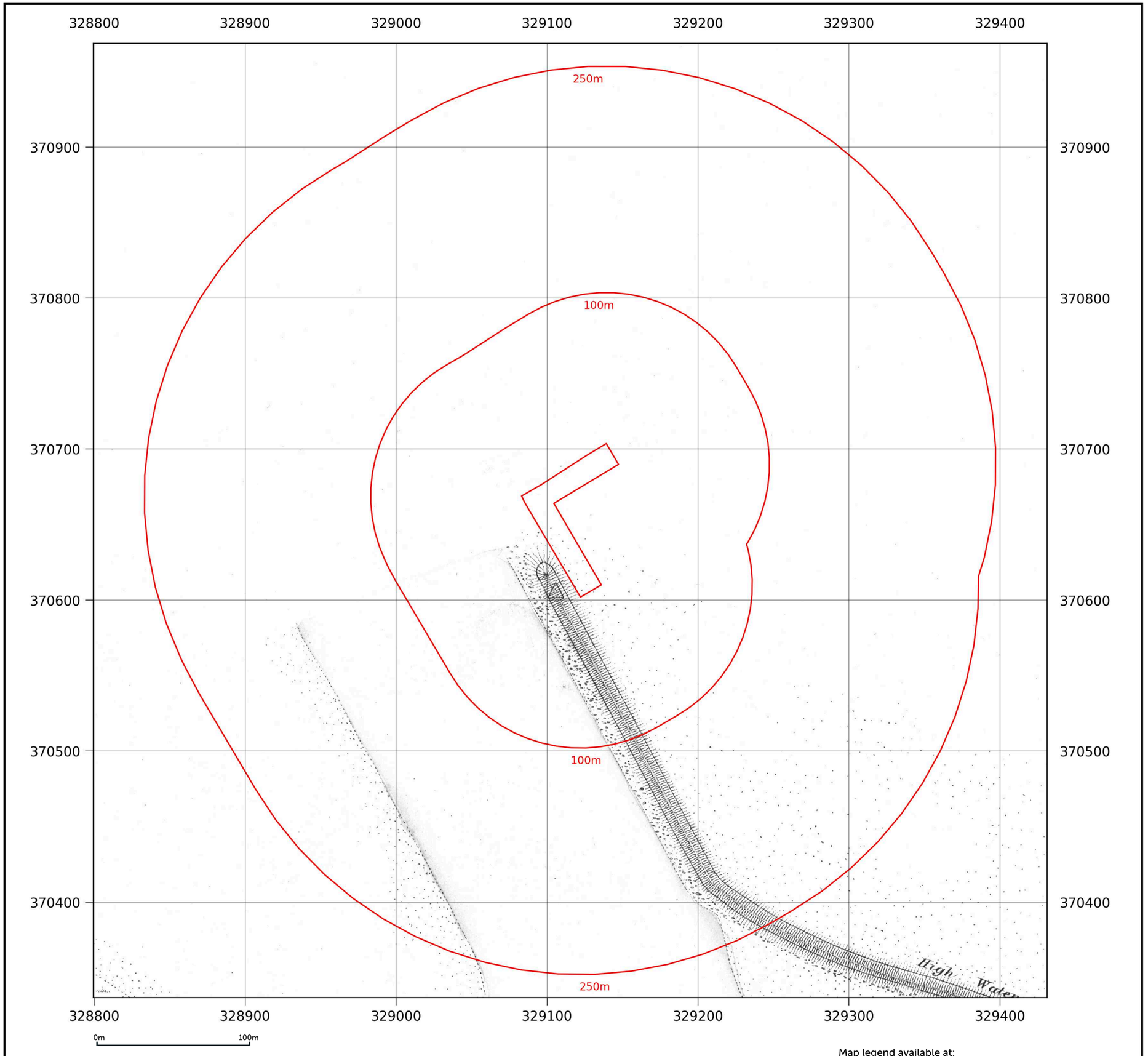
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1870
Scale:	1:2,500
Printed at:	1:2,500

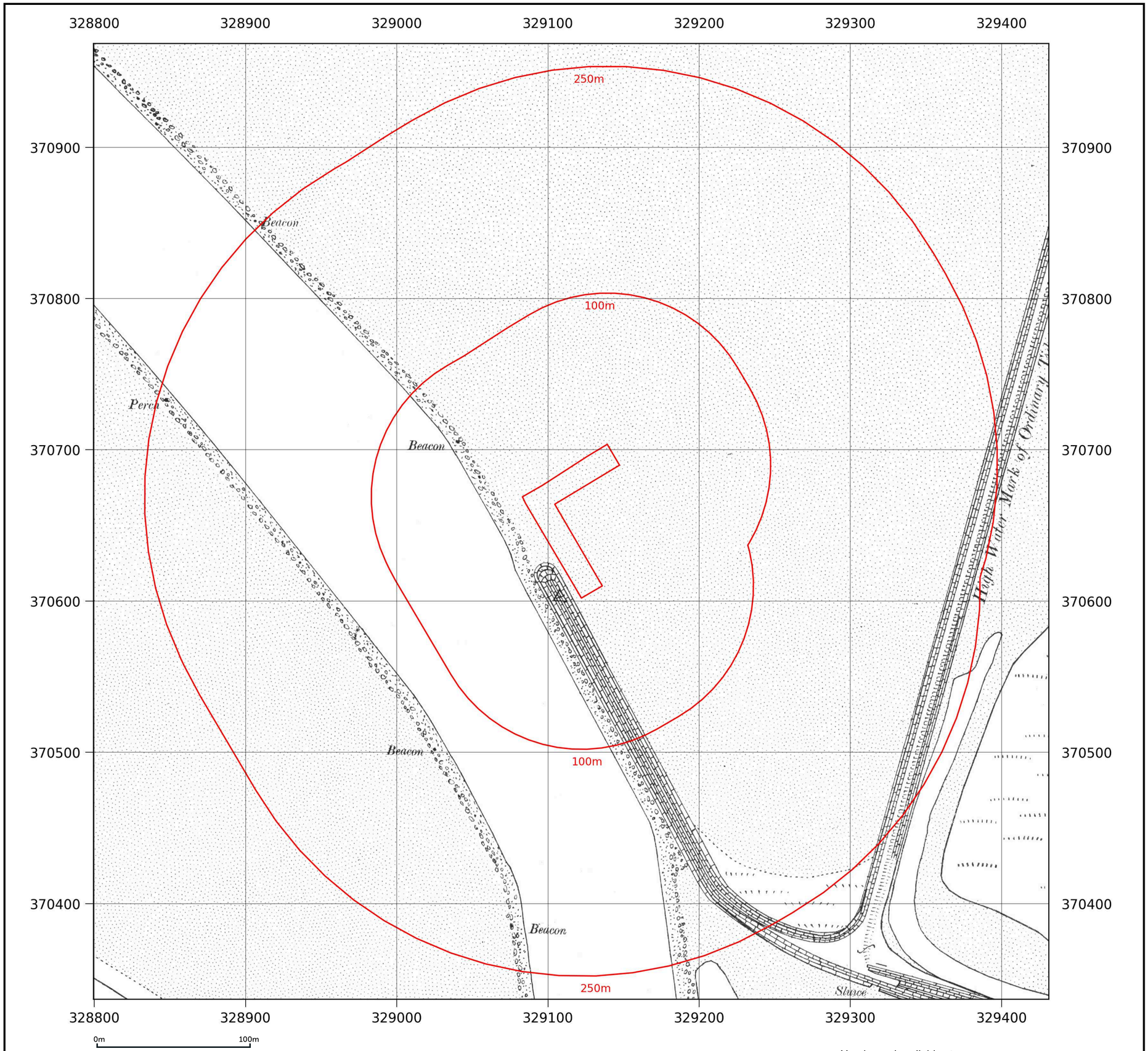
N
W E
S

Date: 1870
Surveyed: 1870
Revised: 1870

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1899
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Printed at:	1:2,500

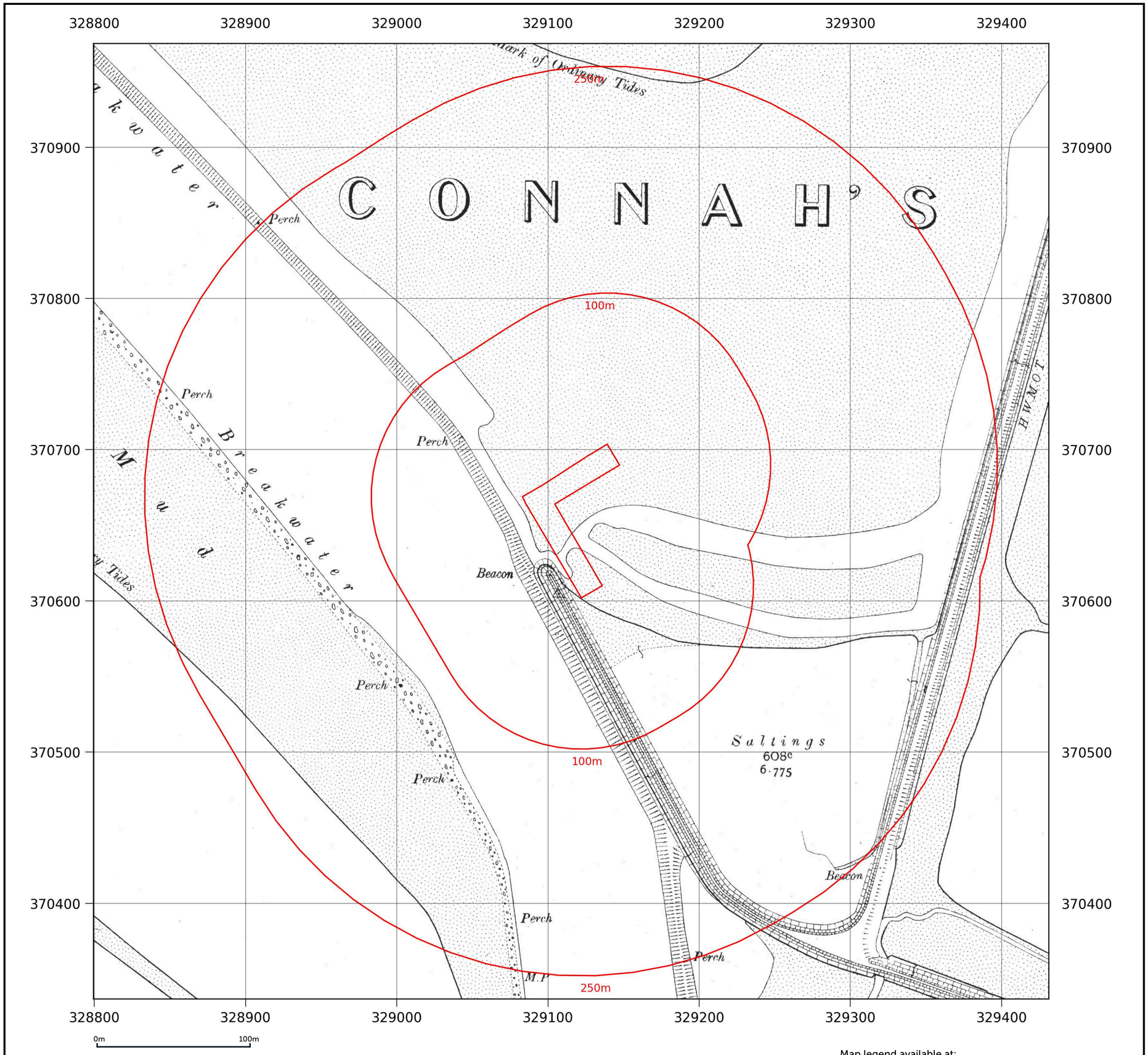
N
W E
S

Date: 1899
Surveyed: 1899
Revised: 1899

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1912
Scale:	1:2,500
Printed at:	1:2,500

N
W E
S

Date: 1912
Surveyed: 1912
Revised: 1912

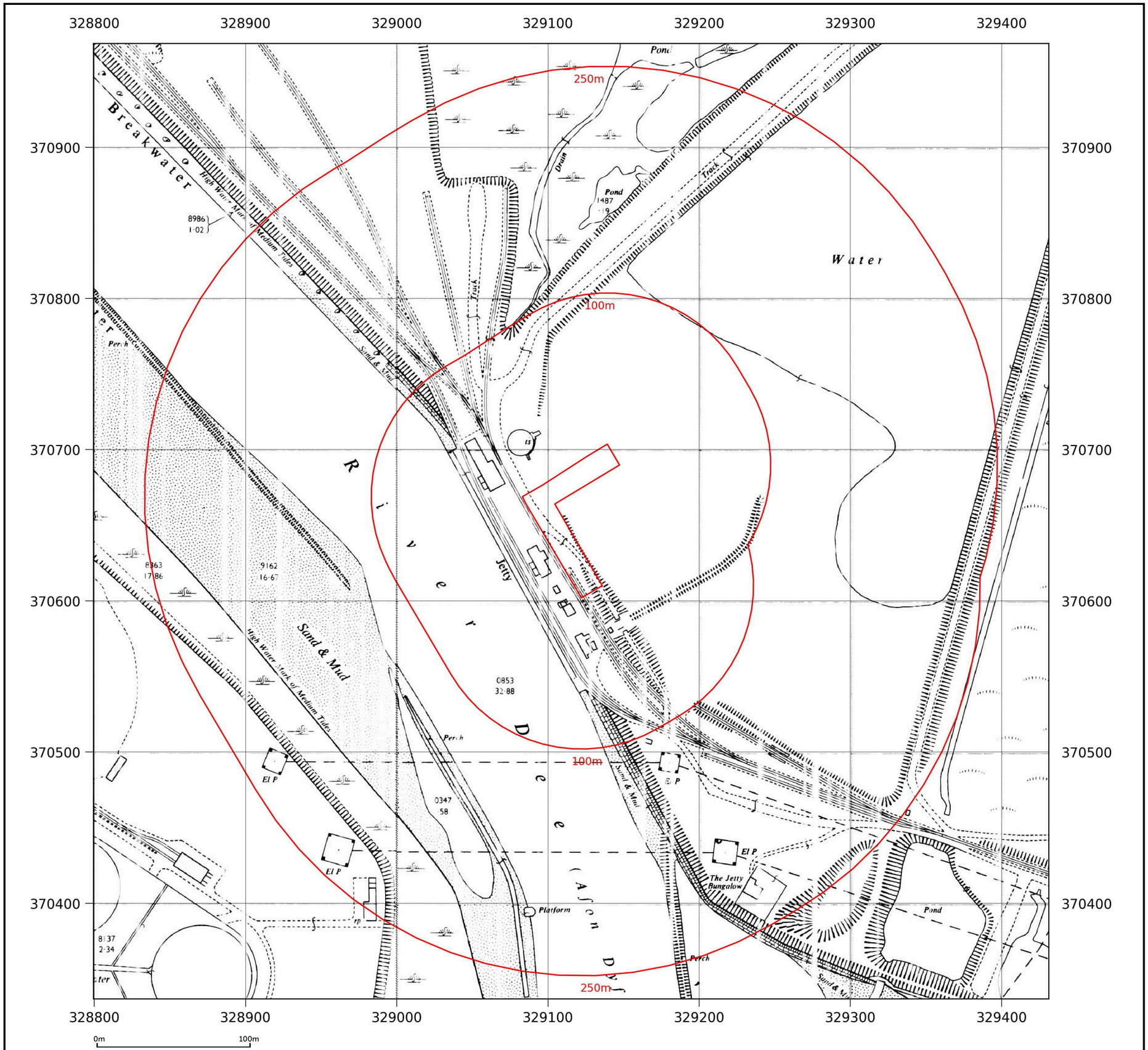
Contact us with any questions at:
info@groundsure.com
01273 257 755

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

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Map legend available at:
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1964
Scale:	1:2,500
Printed at:	1:2,500

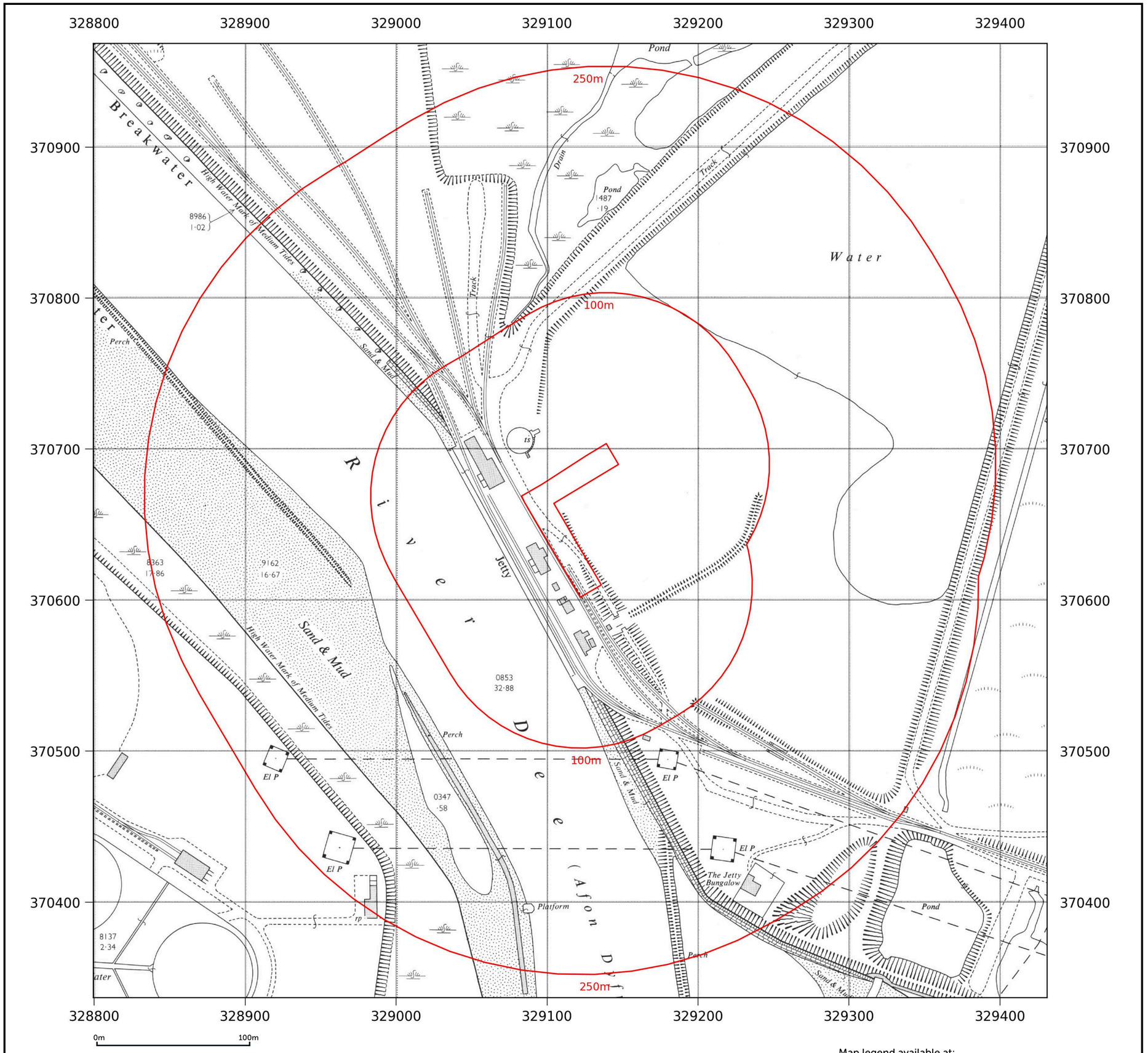
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Date: 1964 | Date: 1964

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1964
Scale:	1:2,500
Printed at:	1:2,500

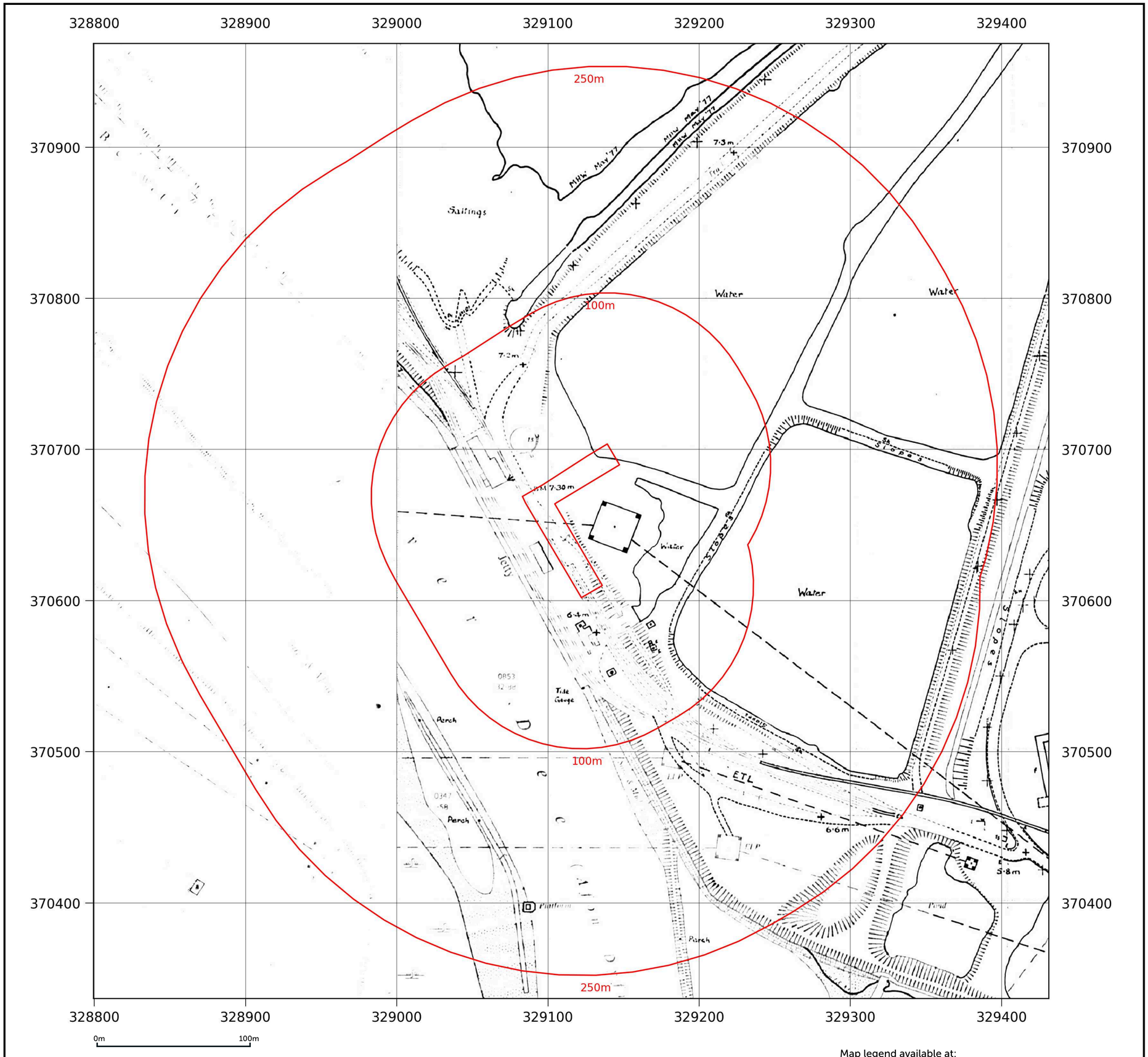
N
W E
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Date: 1964
Surveyed: 1962
Revised: 1962
Copyright: 1964
Levelled: 1959

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1976-1978
Scale:	1:2,500
Printed at:	1:2,500

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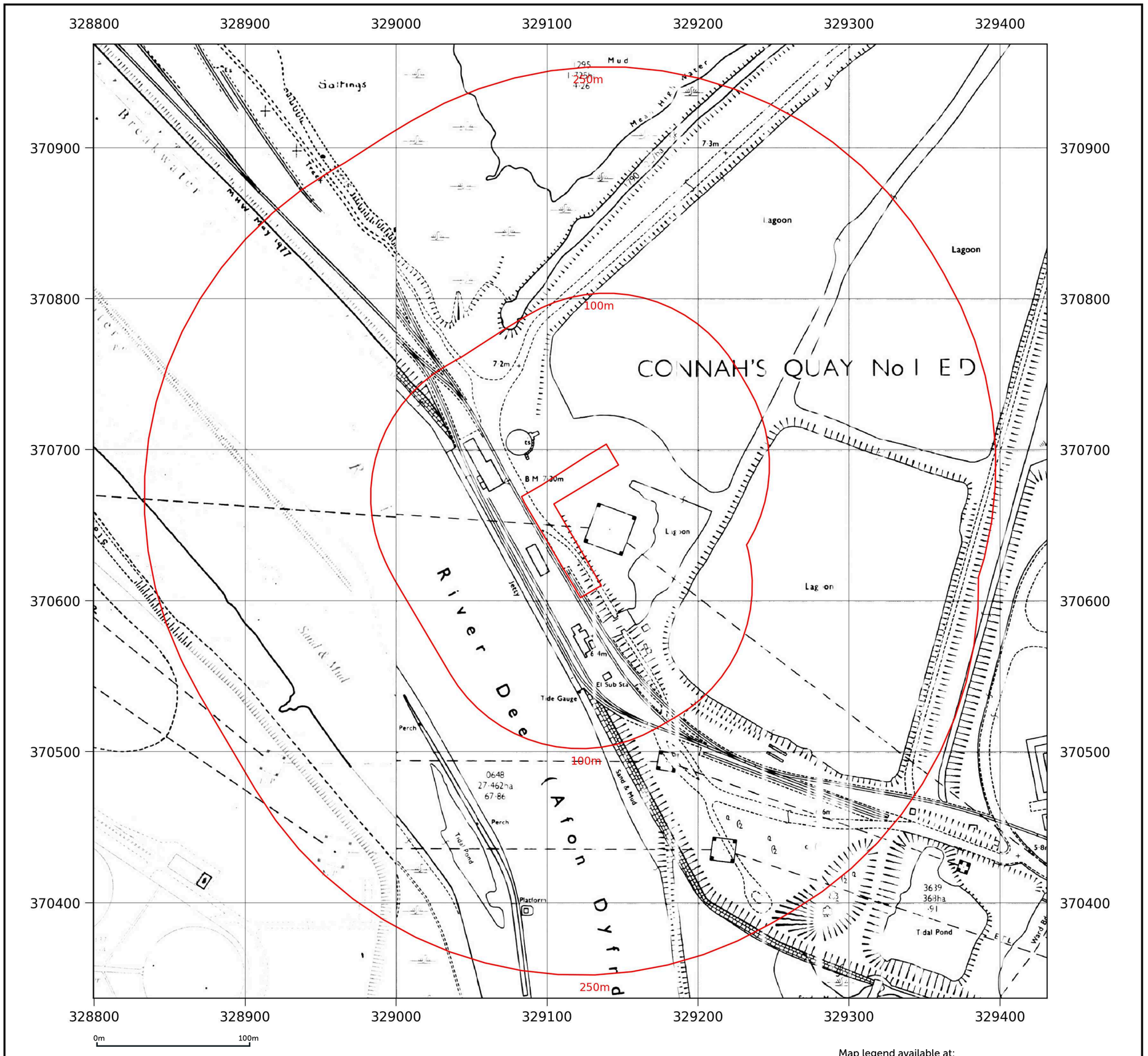
Date: 1976

Date: 1978
Copyright: 1978
Levelled: 1959

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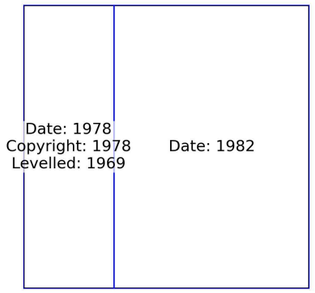
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1978-1982
Scale:	1:2,500
Printed at:	1:2,500

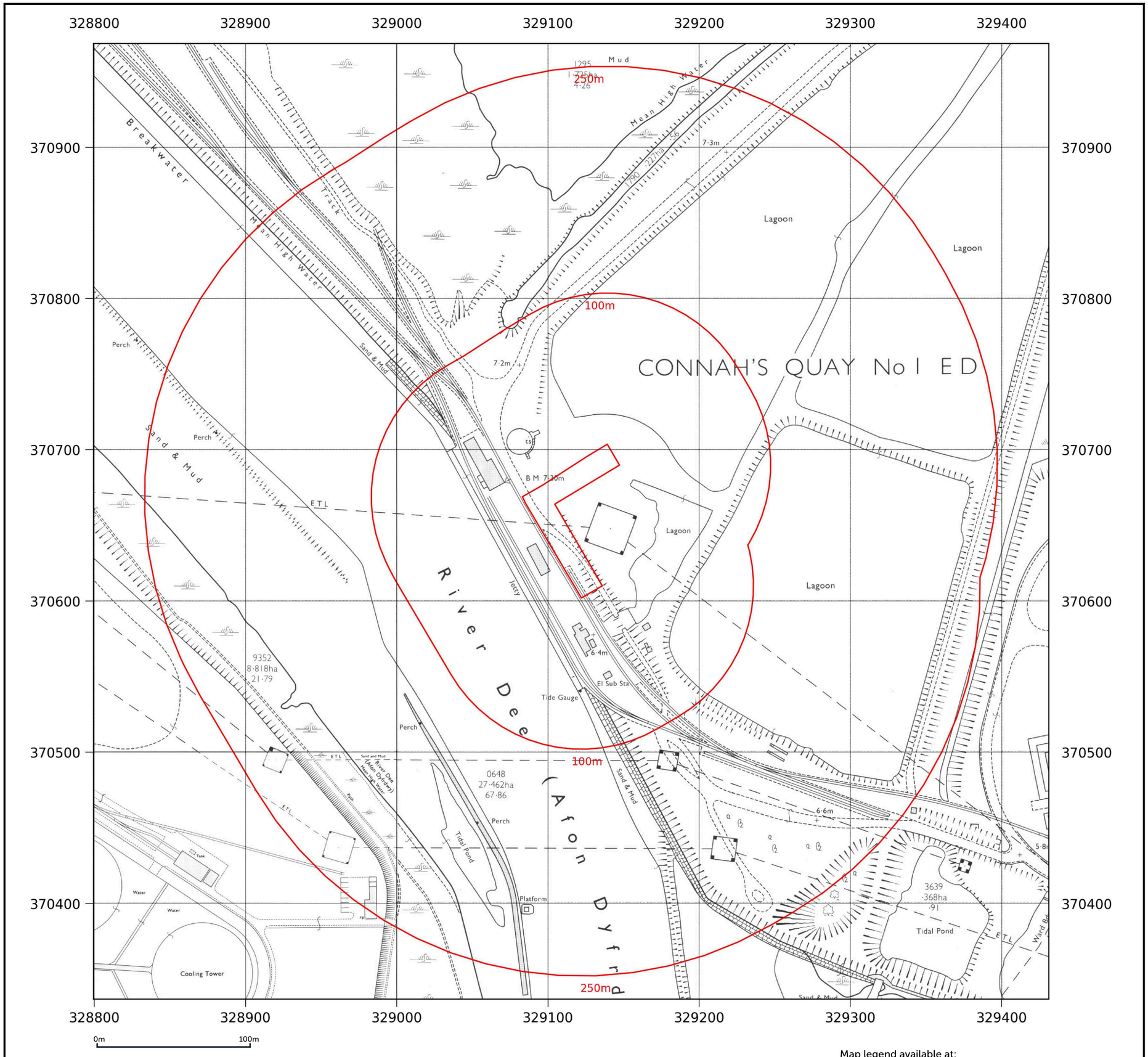
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1982
Scale:	1:2,500
Printed at:	1:2,500

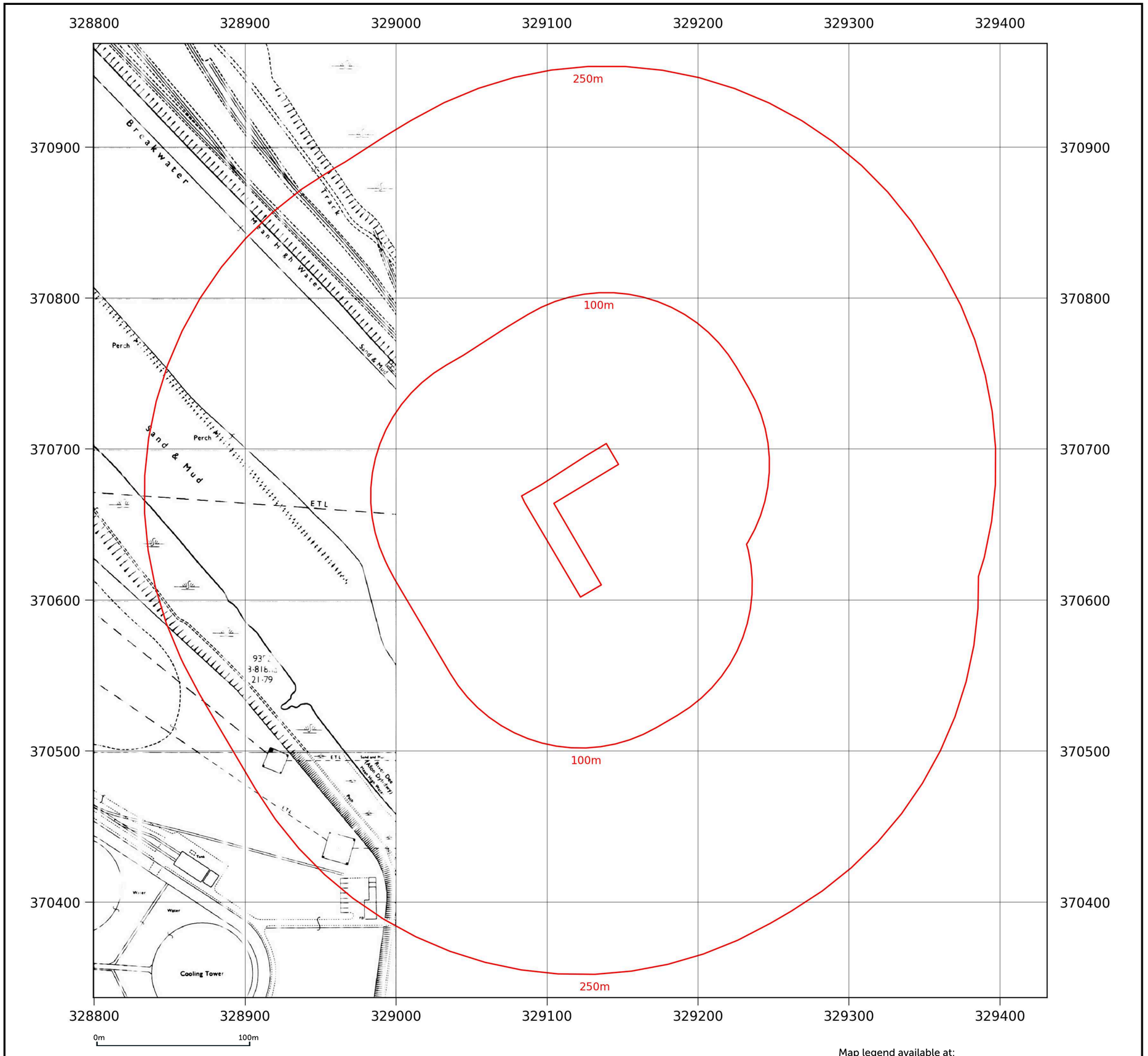
N
W E
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Date: 1982
Surveyed: 1978
Revised: 1980
Copyright: 1982
Levelled: 1959

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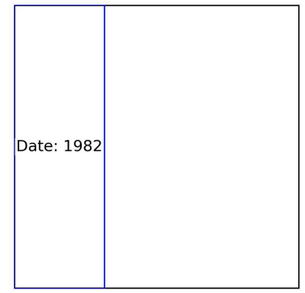
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1982
Scale:	1:2,500
Printed at:	1:2,500

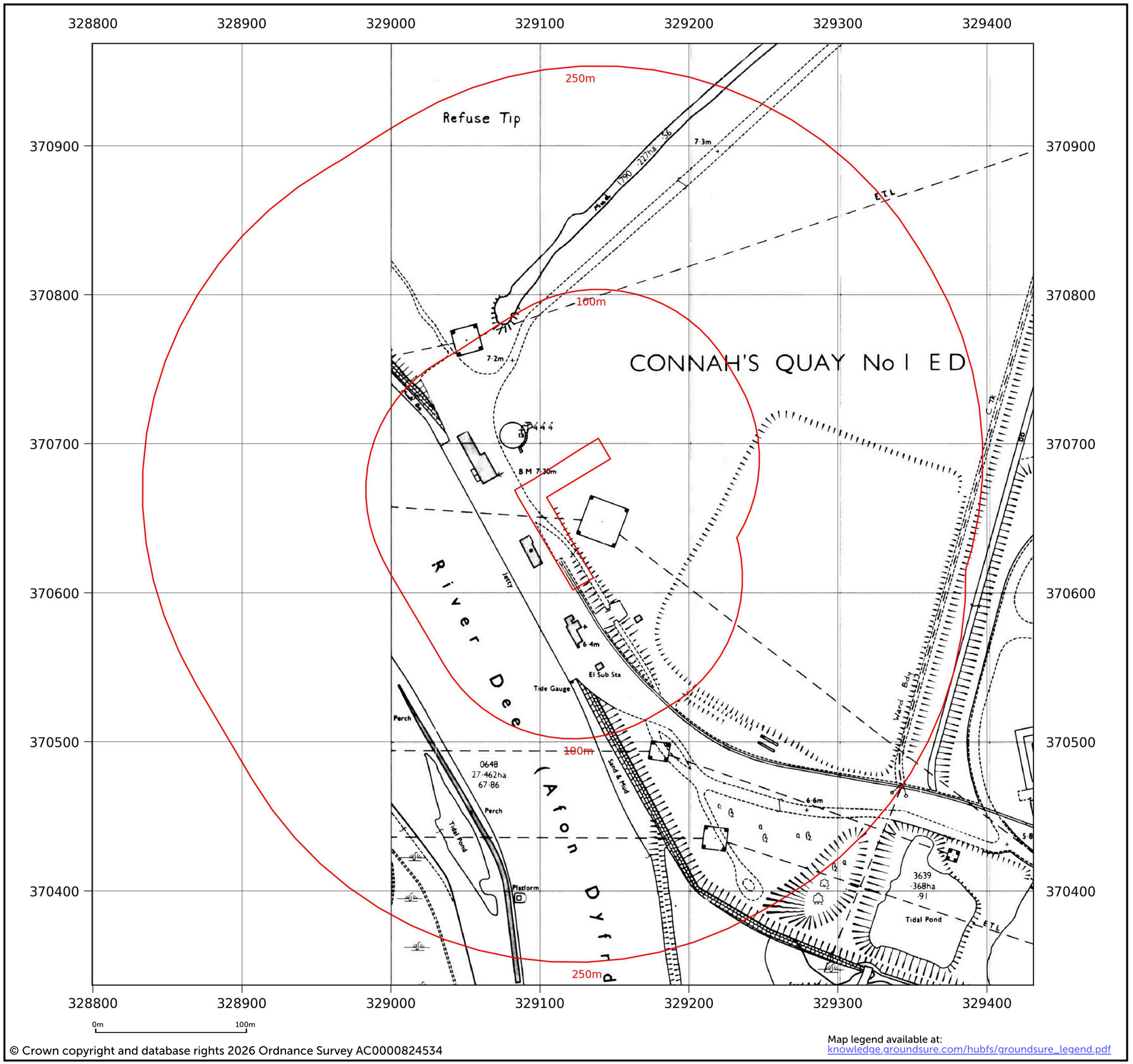
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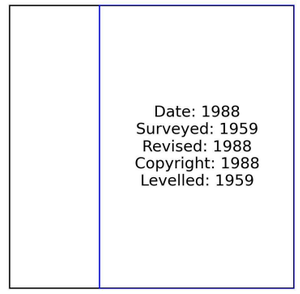
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1988
Scale:	1:2,500
Printed at:	1:2,500

N
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1993
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1993
Surveyed: 1993

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328800 328900 329000 329100 329200 329300 329400

370900 370800 370700 370600 370500 370400

250m
100m
Refuse Tip
Track
Mud
7.3m
ETL
7.2m
5M Mud & Boulders
Tank
BM 7.30m
Jetty
6.4m
El Sub Sta
Tide Gauge
Perch
0648
Tidal Pond
Double wall
Path (um)
Sand and Mud
Marsh
River Dee (A
Sloping Masonry
6.6m
Ward Bdy
C Th
Drain
3639
Tidal Pond
Marsh
Sand and

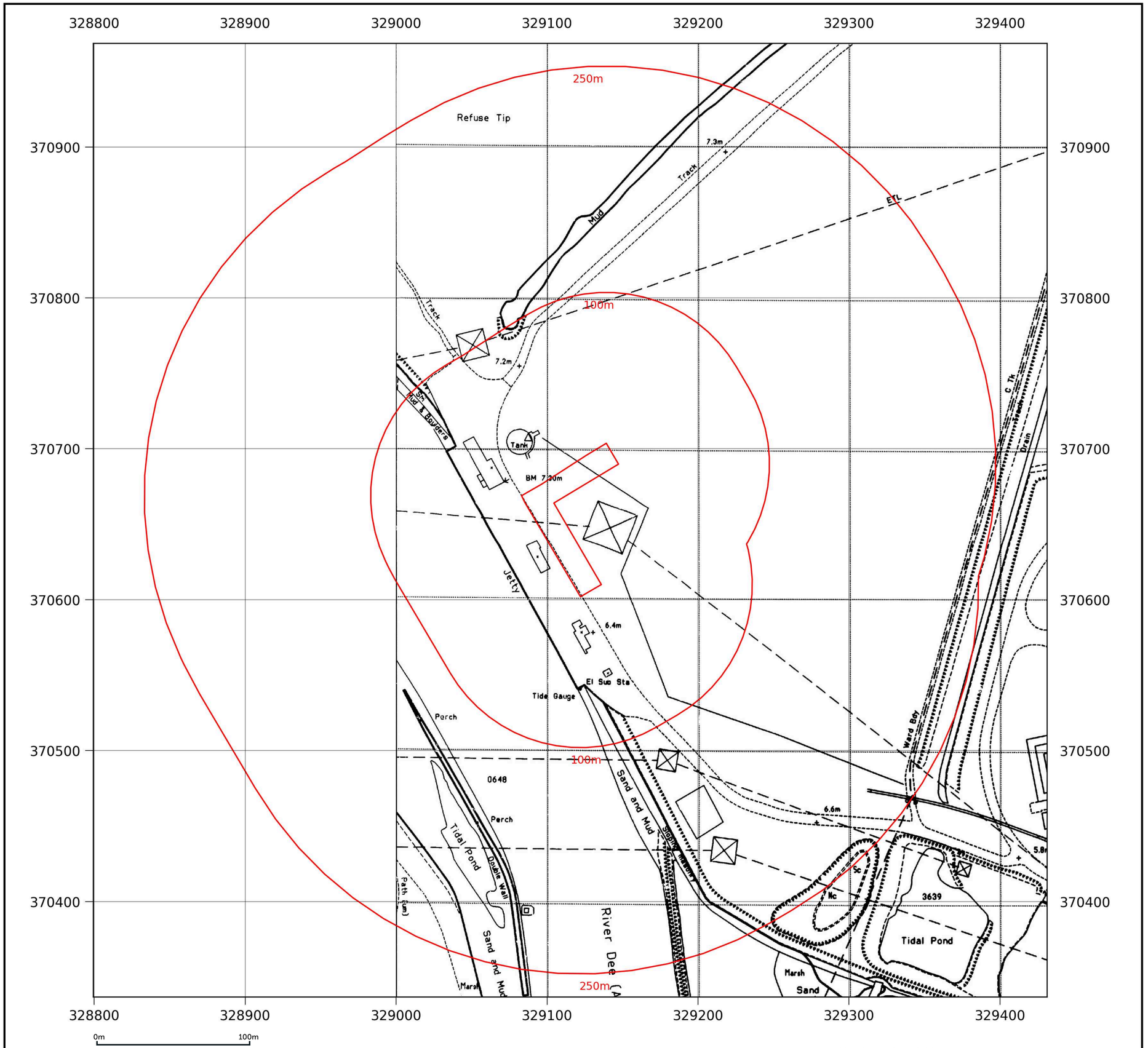
0m 100m

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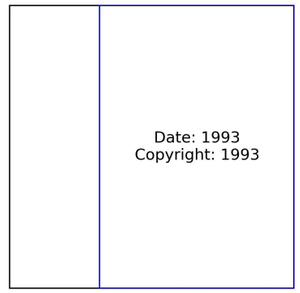
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1993
Scale:	1:2,500
Printed at:	1:2,500

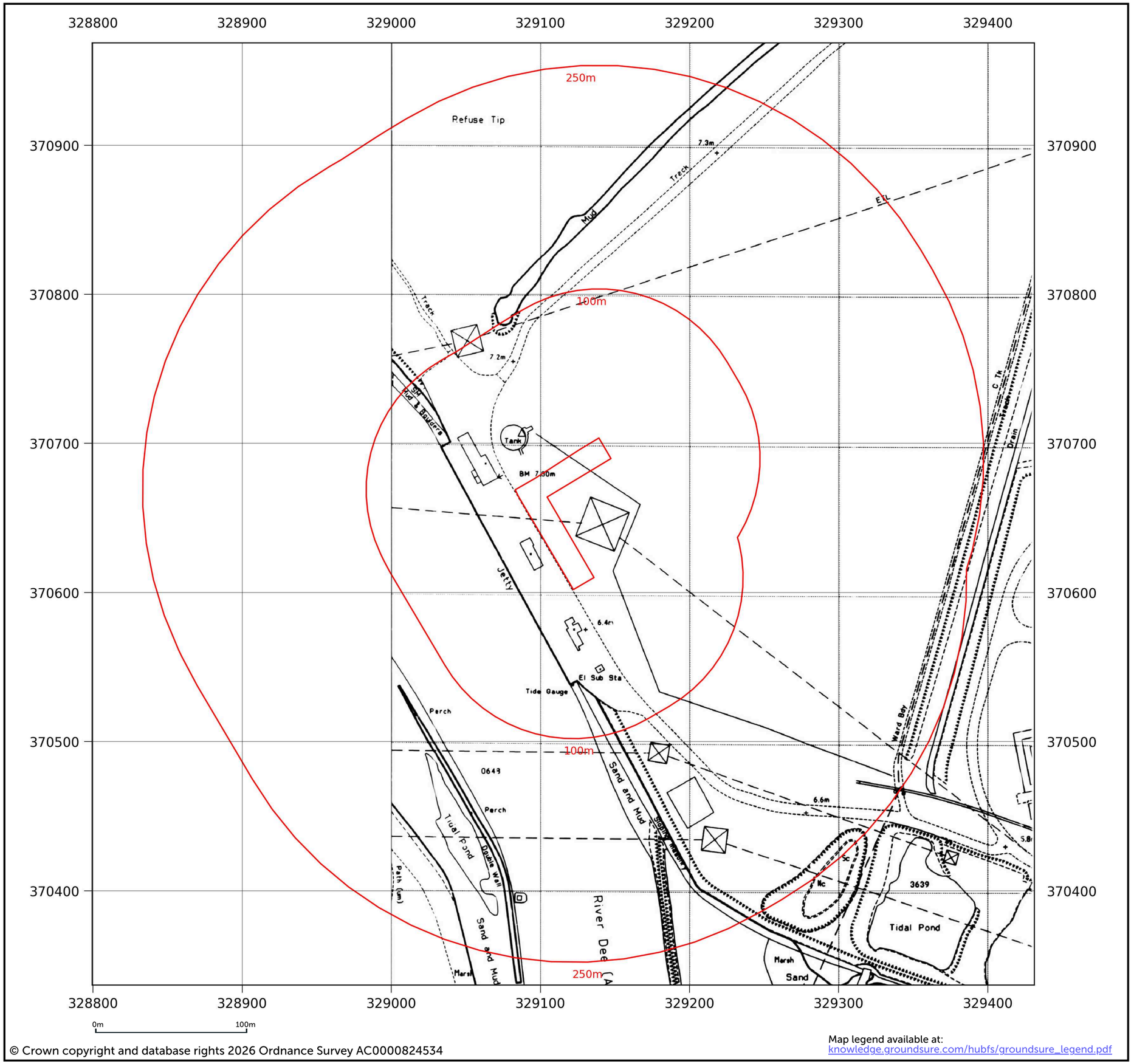
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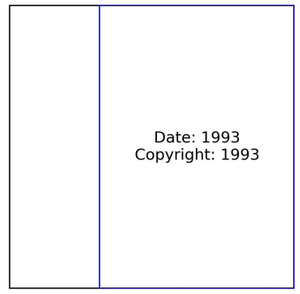
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1993
Scale:	1:2,500
Printed at:	1:2,500

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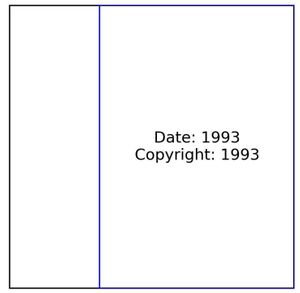
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1993
Scale:	1:2,500
Printed at:	1:2,500

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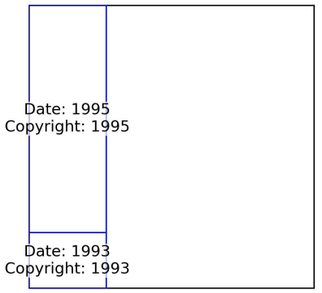
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1993-1995
Scale:	1:1,250
Printed at:	1:2,000

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328900 329000 329100 329200 329300

370900 370800 370700 370600 370500

100m

100m

ETL

Sand and Mud

Marsh

Path (um)

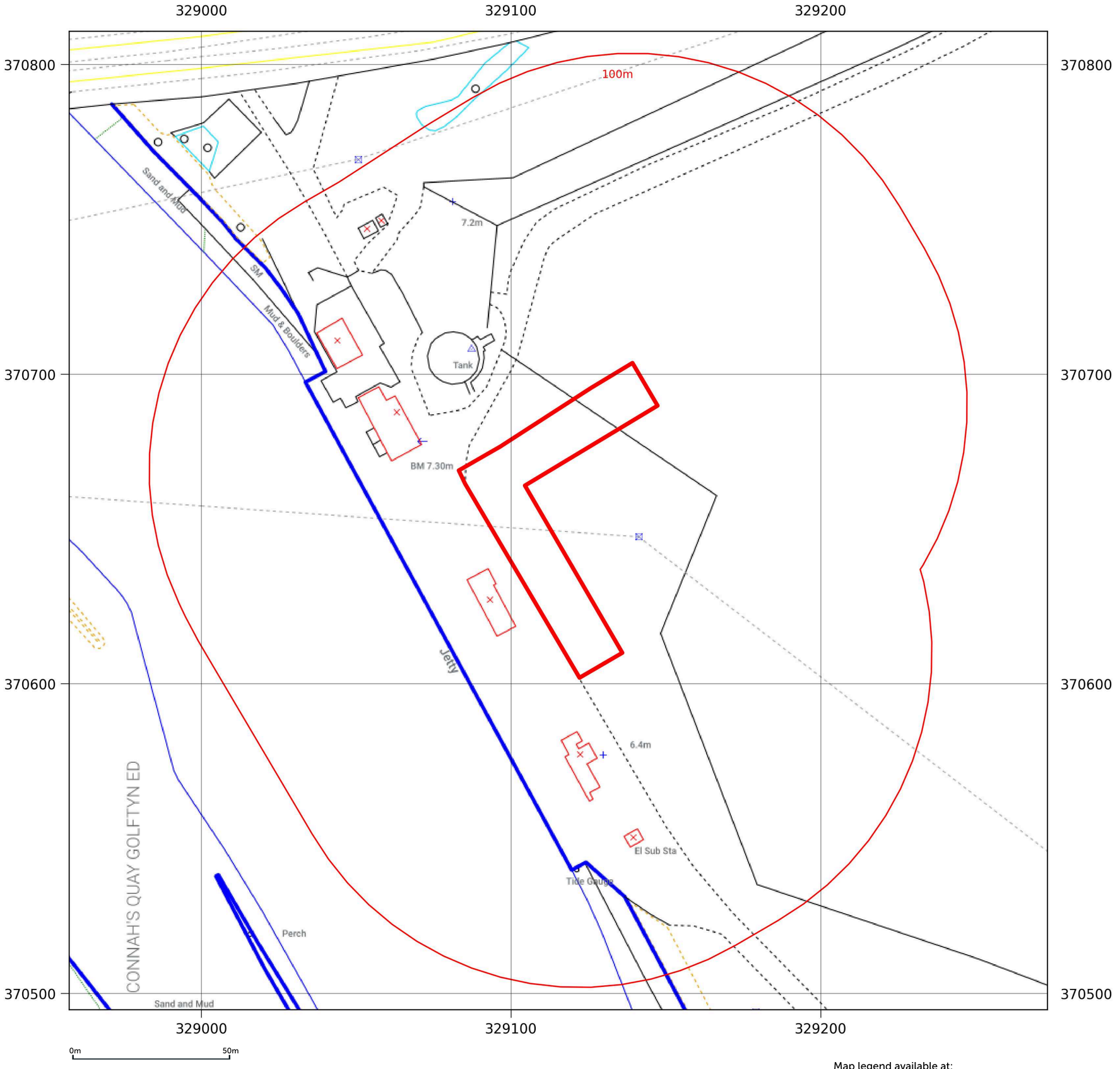
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

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Date: 2003

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Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1869
Scale:	1:10,560
Printed at:	1:10,560

N
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Date: 1869
Surveyed: 1869
Revised: 1869

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328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

750m
500m

Low Water Channels taken from Hydrographic Chart of 1850

High Water Mark of Or

of Ordinary Tides

Liable to Floods

Golftyn House
Golftyn Farm
Golftyn
Golftyn Cottages
Pen-lan Farm
St. Mark's Church
Nat. School
Station
Wharf
Landing Stage
Chemical Works
Connah's Quay
Custom House
Red Hill Farm
Halfway House (P.H.)
Swan (P.H.)
Hare & Hounds (P.H.)
Methodist Chapel
Ship Inn (P.H.)
Signal Post
Signal Dwf
Stones
Well
Brick Yard
Dredging
Chemical Works

G O L F T Y N
Acres
437·784

0m 500m

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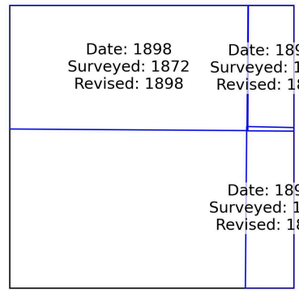
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1897-1898
Scale:	1:10,560
Printed at:	1:10,560

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328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

750m
500m
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750m

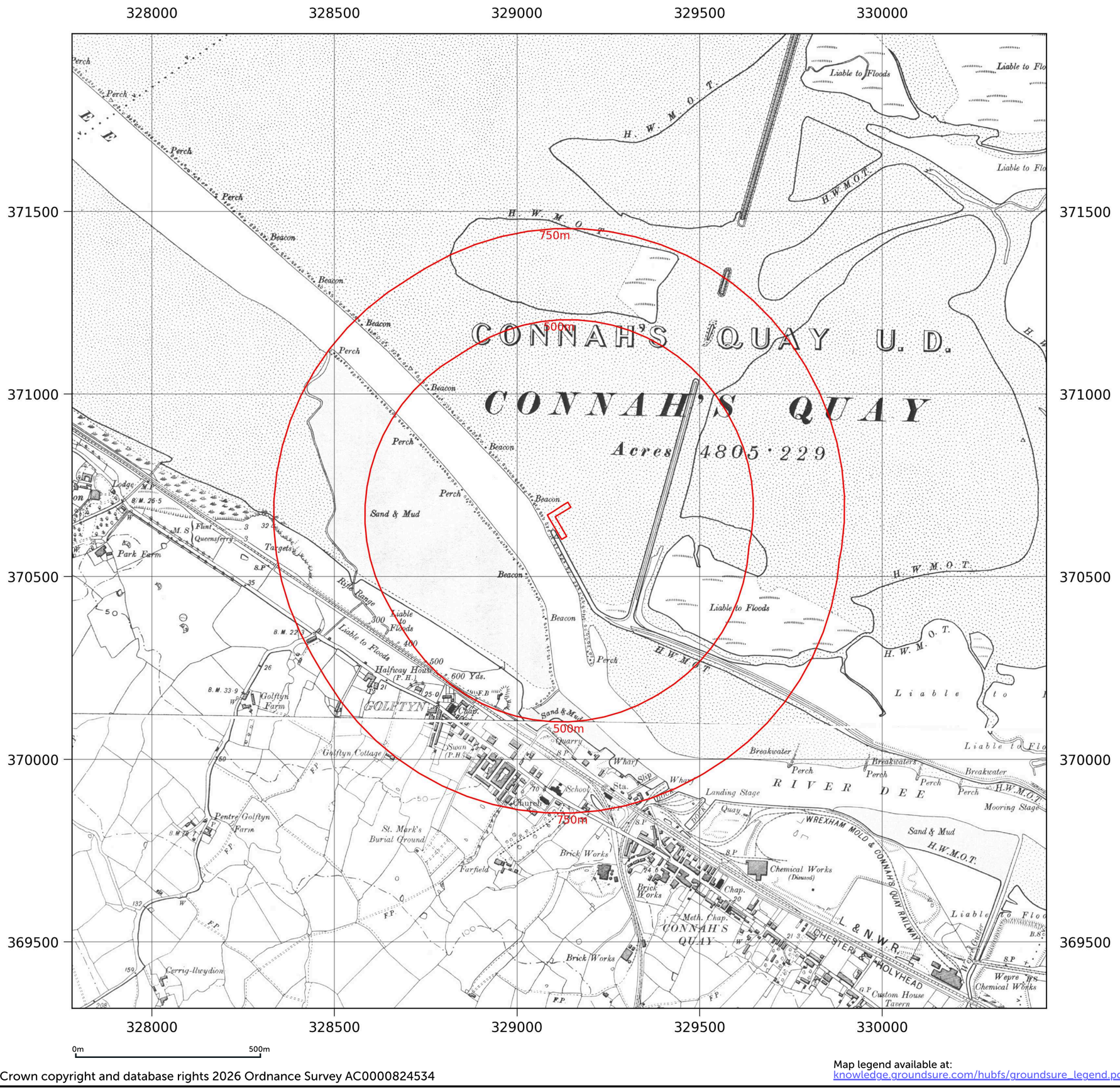
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1898
Scale:	1:10,560
Printed at:	1:10,560

N
W E
S

Date: 1898
Surveyed: 1869
Revised: 1898

Date: 1898
Surveyed: 1870
Revised: 1898

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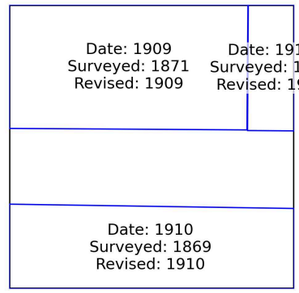
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1909-1913
Scale:	1:10,560
Printed at:	1:10,560

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371500 371000 370500 370000 369500

750m
500m
500m
750m

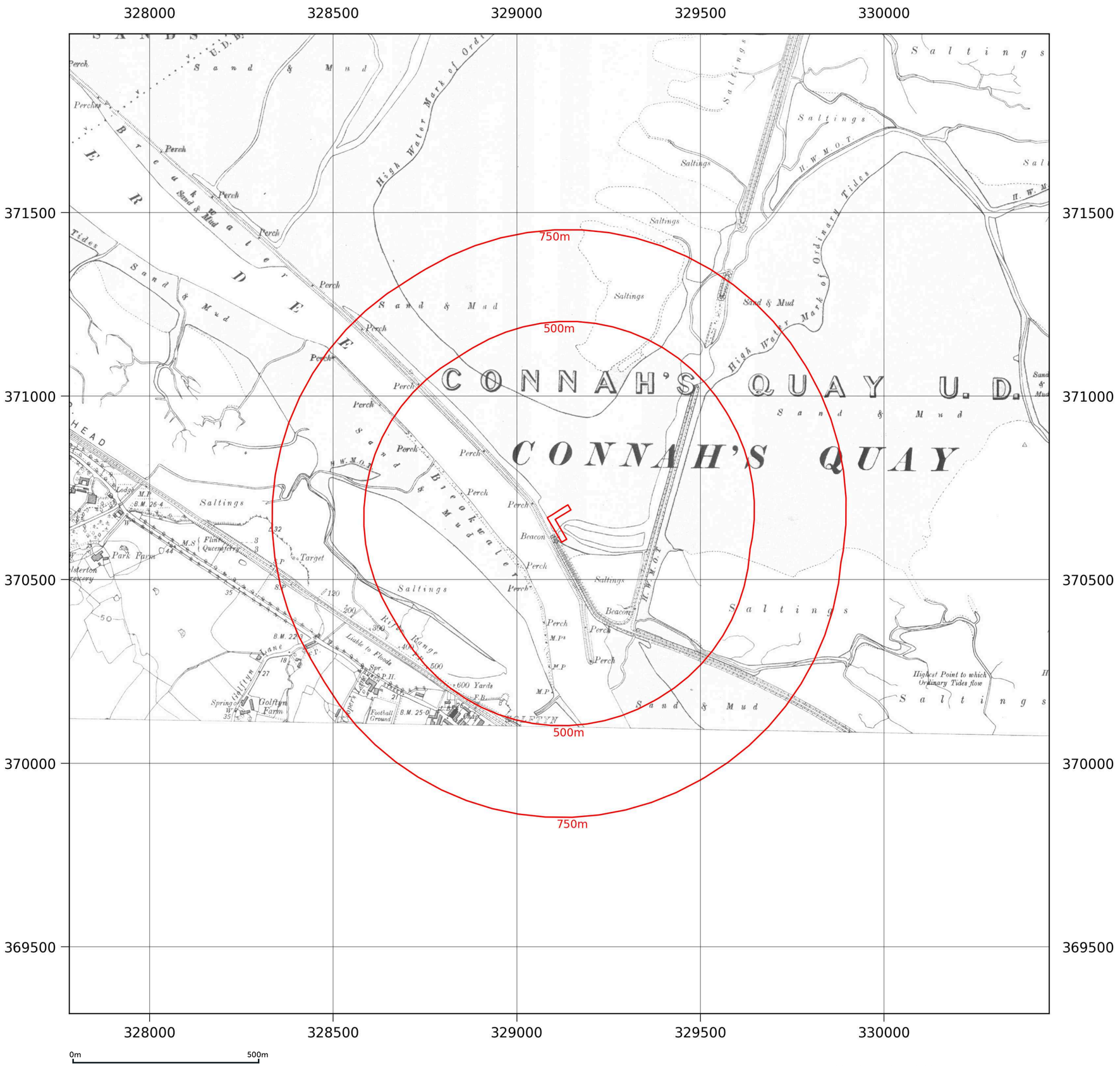
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1913
Scale:	1:10,560
Printed at:	1:10,560

N
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Date: 1913
Surveyed: 1869
Revised: 1913
Edition: 1913

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	County Series
Map date:	1938
Scale:	1:10,560
Printed at:	1:10,560

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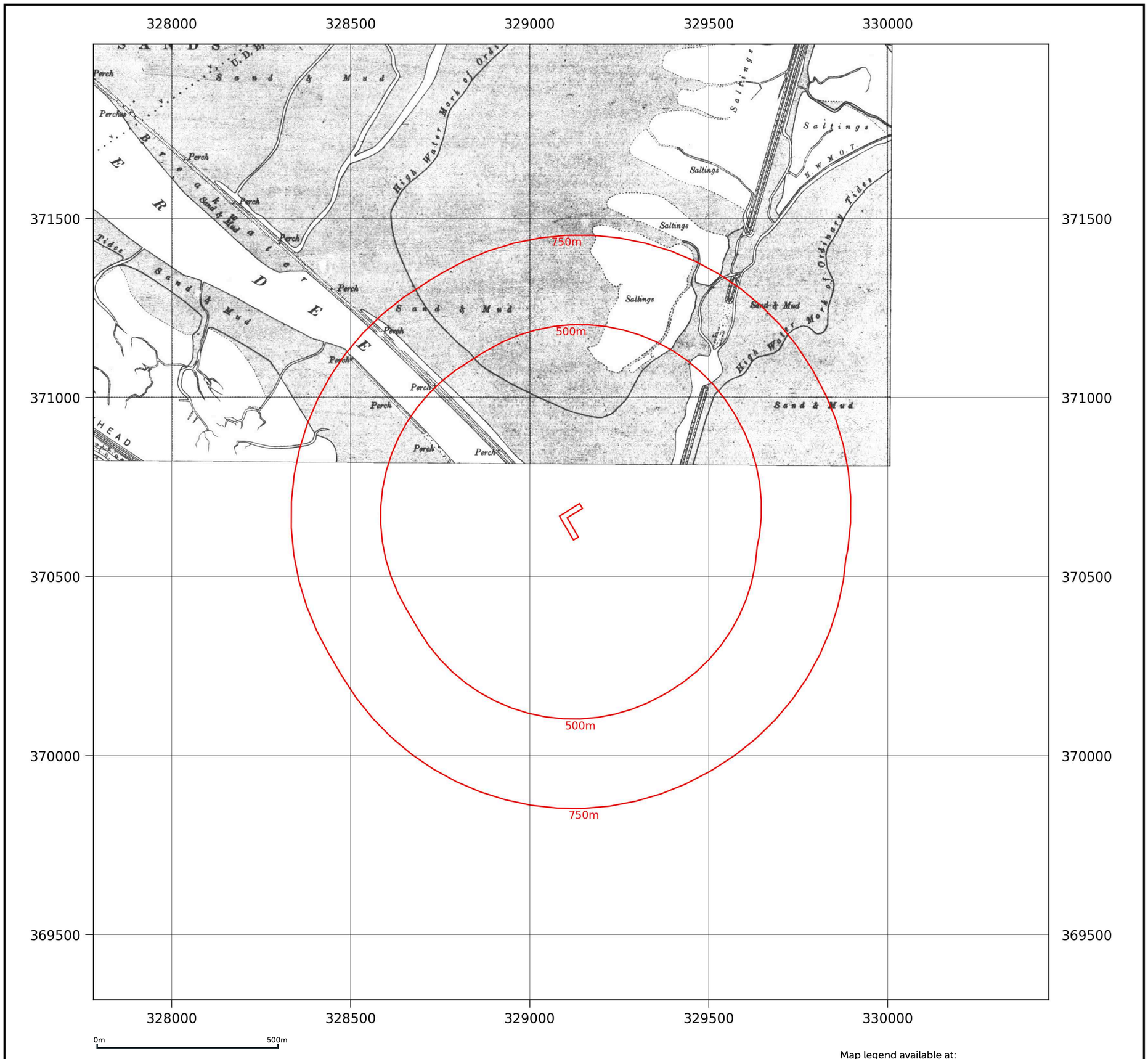
Date: 1938
Surveyed: 1869
Revised: 1938

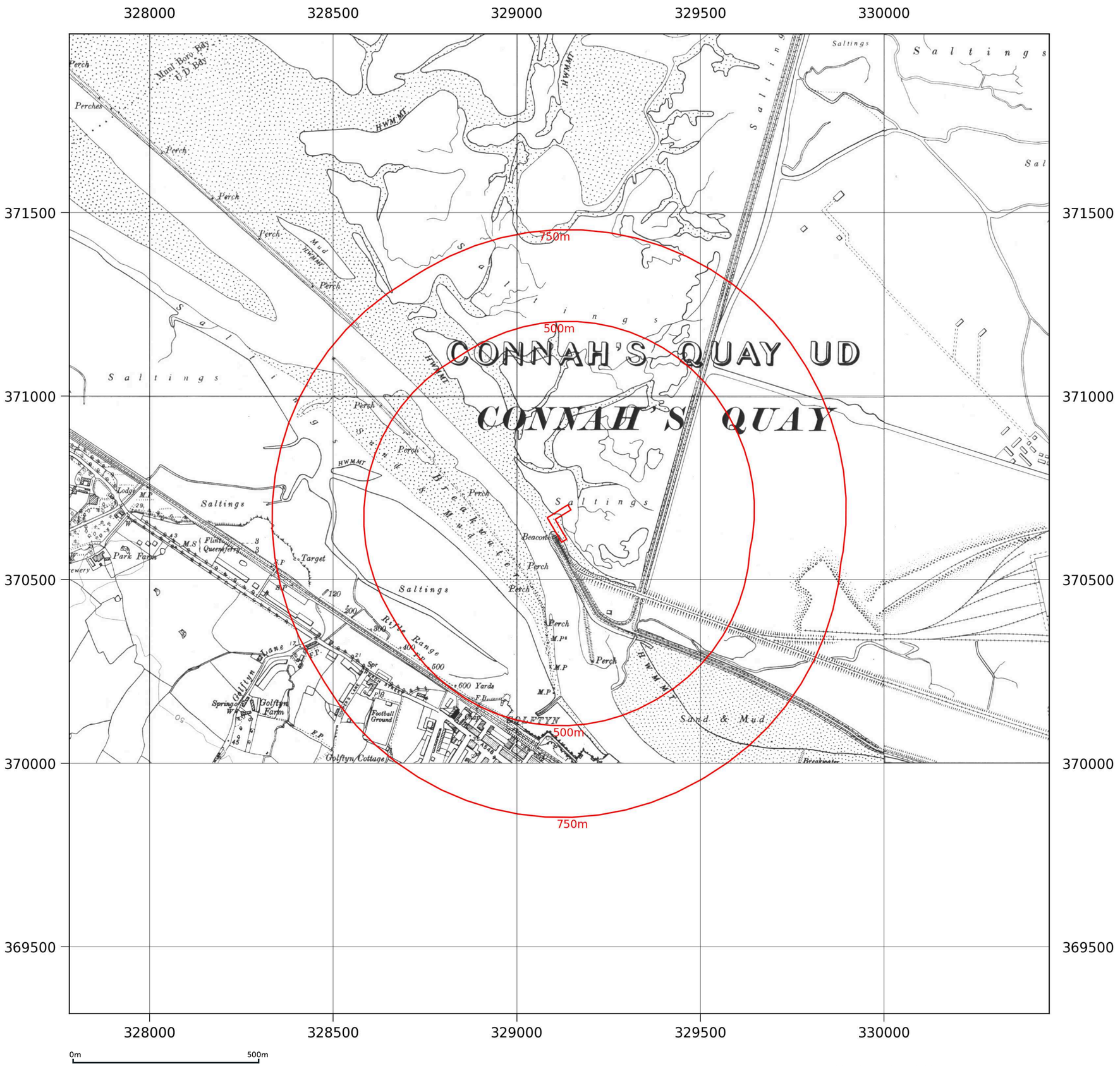
Date: 1938
Surveyed: 1869
Revised: 1938
Edition: 1938

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328000
328500
329000
329500
330000
371500
371000
370500
370000
369500
750m
500m
500m
750m
0m
500m
Perch
Sand & Mud
Saltings
High Water Mark of Ordinary Tides
H W M O.T.
Tides
Sand & Mud
Perch
Saltings
Sand & Mud
High Water Mark of Ordinary Tides
Sand & Mud
Perch
Perch
Perch



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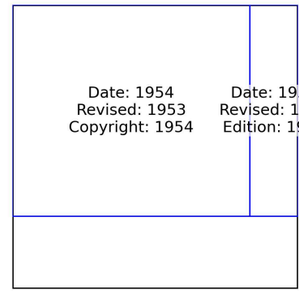
Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	Provisional
Map date:	1954
Scale:	1:10,560
Printed at:	1:10,560

N
W E
S



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Groundsure
LOCATION INTELLIGENCE

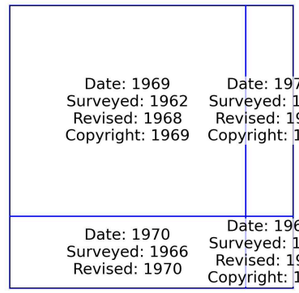
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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	Provisional
Map date:	1969-1970
Scale:	1:10,560
Printed at:	1:10,560

N
W E
S



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328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

750m 500m 250m

Mean High Water
MHW
Sand & Mud
Works
Drain
Tk
Chy
FB
Breakwater
Jetty
Hostel
Park Farm
Flintshire Technical College
Tennis Courts
Oakleigh
Golftyn Farm
Saint Philomena
PH
Football Ground
Garages
Golftyn Cottage
Golftyn
Cemetery
Pentre Golftyn Farm
Farfield
Plasyne Field School
Cricket Ground
Football Ground
The Jetty Bungalows
Depot
Quay
RIVER DEE
(Afon Dyfrdwy)
Weapon Cutter
Chys
Cerrig-llwydion

0m 500m

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Map legend available at:
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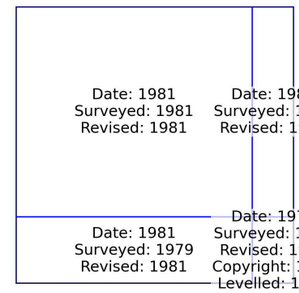
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LOCATION INTELLIGENCE

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	1978-1981
Scale:	1:10,000
Printed at:	1:10,000



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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

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

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W E
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Date: 2001 Date: 2001

Date: 2001 Date: 2001

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328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

750m 500m 750m 500m

Mean High Water
Power Station
Refuse Tip
Power Station
Works
Travelling Cranes
River Road
Tunnel
A548
Park Farm
College
Recreation Ground
Sports Centre
School
Football Ground
Power Station
River Dee (Afon Dyfrdwy)
MHW
Wirral View
Ivy Cottage
Canol-y-Fron
Top House
Llyn
School
Pavilion
Cricket Ground
Recn Gd
CONNAH'S QUAY
School
Works
Recreation Ground
Recn Gd
Amenity Site
Weyre Gutter
CHURCH STREET
CHURCH ST
CHURCH HILL
DEE VIEW ROAD
YORK ROAD
GOLFFYN LANE
GOLFFYN DRIVE
LANSDOWNE ROAD
QUEEN'S AVENUE
HAMILTON ROAD
KINGS ROAD
DOCK ROAD
GARTHORPE AVENUE
BIRCH ROAD
HAWARDEN ROAD
HIGH STREET
CHAPEL STREET
PRIMROSE STREET
PRINCE'S STREET
CHESTER ST
FISHERMANS QU
CABLE ST
TUSCAN WAY
DEVA AVENUE
ST DAVID'S DRIVE
LINDEN AVE
PEMBRY RISE
HIGHMERE DRIVE
ASHER VIEW
AFON VIEW
OAK CLOSE
HOLLY GROVE
PW PO

0m 500m

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

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

N
W E
S

Date: 2010 Date: 2010

Date: 2010 Date: 2010

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	2015
Scale:	1:10,000
Printed at:	1:10,000

N
W E
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Date: 2015 Date: 2015

Date: 2015 Date: 2015

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328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

750m 500m 500m 750m

Mean High Water Mean High Water

Broken Bank Tip

Power Station Power Station Power Station

WEIGHBRIDGE ROAD NORTH ROAD RIVER ROAD River Road

Works Works Recreation Ground

Tunnels BEESTON ROAD

Park Farm College Recn Gd

Sports Centre School

CHURCH STREET CHURCH ST CHURCH HILL

PW

Afon Dyfrdwy / River Dee

MHW MHW

Quay DOCK ROAD

Wirral View Ivy Cottage Canol-y-Fron Top House Llyn

Ysgol Cemetery Ysgol

Hall Pavilion Cricket Ground Recn Gd

CONNAH'S QUAY

Wepre Gutter

Amenity Site

0m 500m

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Map Insight

Site details:	Connahs Quay Change 6
Client ref:	UK1754074
Report ref:	GS-HL5-4UC-EI9-QYQ
Grid ref:	329114.31, 370656.53
Production date:	20 January 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000

N
W E
S

Date: 2025 Date: 2025

Date: 2025 Date: 2025

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01273 257 755

328000 328500 329000 329500 330000

371500 371000 370500 370000 369500

Afon Dyfrdwy / River Dee

750m
500m
500m
750m

Kelsterton
Golftyn
CEI CONNAH / CONNAH'S QUAY
Museum
Education Facility
Sports/Leisure Centre
Education Facility
Education Facility
Education Facility
Education Facility

A548
B5129
WEIGHBRIDGE ROAD
KELSTERTON ROAD
GOLFTYN LANE
CHURCH STREET
DEE VIEW ROAD
LANSDOWNE ROAD
GOLFTYN DRIVE
YORK ROAD
TEGFAN DRIVE
HAMILTON ROAD
QUEEN AVENUE
NEW UNION STREET
CEFN ROAD
KENT ROAD
BRYN ROAD
NANT ROAD
GARTHORPE AVENUE
LOWLAND AVENUE
CABLE STREET
TUSCAN WAY
HIGH STREET
FISHERMANS QUAY
DOCK ROAD
CHAPEL STREET
PRIMROSE STREET
PRINCES STREET
WESLEY STREET
CESTRIAN STREET
NEW STREET
RIVER ROAD
COATINGS TWO
NORTHROAD
RING ROAD
PW

0m 500m

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