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DESK STUDY & PRELIMINARY RISK ASSESSMENT

Enderby Place
Telcon Way
Greenwich
SE10 0AG

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1.0 Non-Technical Summary

At the request of Maritime View Ltd, a Preliminary Risk Assessment (PRA) has been carried out at Enderby Place, Telcon Way, London, SE10 0AG. The purpose of the PRA is to support a future planning application at the Site and identify potential contaminated land constraints for the proposed Development (mixed use including residential). The Site is approximately 1.2 hectares in area and comprises: a vacant undeveloped plot of land; Telecon Way; Blackwall Lane; and associated landscaping and infrastructure.

The assessment has been undertaken by suitably qualified and competent professionals in accordance with the guidance and methodology presented by the Environment Agency in their Land Contamination Risk Management guidance (LCRM) published 8 October 2020.

Informed from British Geological Survey (BGS) mapping and previous ground investigations at the Site, the geological sequence at the Site is as follows: Made Ground, Alluvium, Kempton Park Gravel Member, Lambeth Group, Thanet Sands and Upper Chalk. Perched groundwater is anticipated within the Alluvium. Continuous groundwater units are anticipated within the Kempton Park Gravel Member and Lambeth Group (Secondary (A) Aquifers).

The Site is within an area where less than 1% of properties have a radon level at or above the Action Level in Great Britain. Radon protection measures are not required.

Potential on-Site and off-Site sources of contamination have been identified. A PRA of potential land contamination issues has been undertaken that considers the data reviewed and the Preliminary Conceptual Site Model (PCSM). The PRA and risk ratings assigned are based on the qualitative risk assessment matrices presented within relevant guidance (CIRIA C552). Based on the results of the PRA:

- The Site is considered to be of **Moderate** environmental sensitivity.
- There is considered to be **Low to Moderate** risks associated with on-Site sources of contamination (soil and groundwater). It is anticipated that these potential risks can be mitigated through basic mitigation measures such as clean cover systems and building design mitigation (e.g., ventilated basements).
- The potential for the Site to be designated as contaminated land (as defined in Part 2A of the Environmental Protection Act) is considered to be **Low**. However, this is on the assumption that any planning conditions related to potential land contamination issues are dealt with to the satisfaction of the Local Authority as part of the Development.

It is recommended that further ground investigation works are undertaken at the Site to assess the ground, groundwater and ground gas / vapour conditions (based on the proposed end-use) and, if required, develop an appropriate remediation strategy. The scope and purpose of the proposed investigation should be agreed with the Local Authority, prior to undertaking the works.

Construction workers should be vigilant for the presence of contamination during Development and follow best practice if encountered to mitigate any on-going risks and liabilities, as applicable.

In regard to potential risks from unexploded ordnance (UXO), it is recommended that a detailed risk assessment is undertaken prior to any intrusive investigation or Development works and that appropriate UXO risk mitigation measures are adopted.

2.0 Introduction

2.1 Background and Purpose of Assessment

At the request of Maritime View Ltd, a Preliminary Risk Assessment (PRA) has been carried out at Enderby Place, Telcon Way, London, SE10 0AG. The purpose of the PRA is to support a future planning application at the Site and identify potential contaminated land constraints for the proposed Development. The proposed Development is approximately 1.2 hectares in area and comprises the construction of up to 564 residential apartments (Class C3), light industrial use, café and community use (Class E) and associated highways, landscaping and public realm works.

2.2 Authors

This report has been prepared by an environmental consultant with an MSc in Applied Environmental Hydrogeology and over ten years of experience. The assessment has been reviewed by appropriately experienced professionals including a Chartered Hydrogeologist with more than 20 years' relevant experience of contaminated land assessments for residential and commercial Developments.

2.3 Development and Planning Background

It is understood that the Site previously formed part of a 2013 planning application (ref. 13/3025/MA) for a development including a cruise liner terminal, hotel with associated ancillary facilities, 770 residential units, commercial use, a creche, a gym, community facilities and associated highways and landscaping. The site boundary extended to the southwest and was significantly larger than the boundary of this PRA.

Proposed uses located within the current Site boundary of this PRA included a cruise ship terminal in the west, hotel and residential apartment in the centre and access road in the east. As part of this planning application, various ground investigations and contaminated land works were undertaken (see Section 2.6 for more information). Associated contaminated land conditions were discharged by the Local Authority in 2014 (ref.14/0305/SD).

Subsequently six apartment blocks were constructed, located adjacent to the southwest of the Site boundary for this PRA. Proposed development in the northwest (i.e. the cruise liner terminal, hotel and apartment block), which forms the Site boundary of this PRA were not constructed.

A revised 2015 planning application (ref. 15/0973) was submitted for the Site which included the cruise terminal, 477 residential units, retail, restaurants and associated parking, landscaping and infrastructure. However, this proposed development was not constructed and the currently proposed Development plans for the Site comprises up to 564 residential apartments (Class C3), light industrial uses, café and community use (Class E) and associated highways, landscaping and public realm works.

2.4 Sources of Information

The following baseline data have been referenced to complete the PRA in relation to the proposed Development:

- Site walkover (1 November 2023);
- Ordnance Survey Mapping;
- British Geological Survey, Geology of Britain Viewer (online);

- British Geological Survey – 1:50,000 Geological Sheet 270, South London (Solid & Drift);
- Groundsure Mapping Report (ref GS-OQO-WF4-MGU-DLL), Historical Mapping Data;
- Groundsure Enviro + Geo Insights Report (ref GS-2NF-1FL-D5F-PLR), Geology and Subsurface Structure (Infrastructure and Utilities) Data;
- Information on the Defra MAGIC webSite (<https://magic.defra.gov.uk/>);
- Information contained on the gov.uk webSite (<https://flood-warning-information.service.gov.uk/long-term-flood-risk/map>); and,
- Royal Borough of Greenwich, Environmental Information (101145), email response dated 8 November 2023.

2.5 Existing Development

The Site location and recent aerial photograph are presented in Figures 1 and 2, Appendix 1 and Appendix 3.

Proposed Development plans are presented in Appendix 2.

The Site is approximately 1.2 hectares in area and comprises a vacant undeveloped plot of land in the western and central portions of the Site. The eastern portion of the Site comprises Telecon Way (road) and associated landscaping and infrastructure. The eastern most extent of the Site also forms part of Blackwall Lane (road).

The western and central portion of the Site comprises a vacant plot of land and is securely fenced off with wooden hoarding. This portion of the Site is relatively flat with a slight downwards gradient to the east. The west of the Site appears to be raised by approximately 1 to 2 meters. This portion of the Site is covered intermittently with hardstanding (approximately 50%) with the remaining areas comprising soft standing and areas of gravels / aggregate. No buildings are present. A caravan and shipping container are located in the centre of the Site and contain various types of rubbish. Areas of standing water were located across the Site, following recent rainfall. Rubbish, construction materials (e.g. paving slabs and electrical wiring), traffic cones, construction rubble, scrap car parts, tyres and bollards are located across various parts of this area of the Site.

Access to the western and central portion of the Site is via a locked entrance located to the west of Telecon Way. Various bins are located at this entrance. A playground is located to the northwest of Telecon Way and is located within the Site boundary.

Enderby House (pub and restaurant) is located to the southwest of the Site; however, it is not included within the Site boundary. Adjacent west of the Site is the Thames Path following the River Thames. Adjacent northwest is an open Site which appears to be used for the storage of old buses. Adjacent northeast of the Site comprises commercial warehouses (including a glass merchant and patisserie). Adjacent east of the Site are residential properties and associated gardens and road infrastructure. Adjacent southeast of the Site is the Alcatel Submarine Networks Site. Adjacent southwest of the Site are residential apartment blocks.

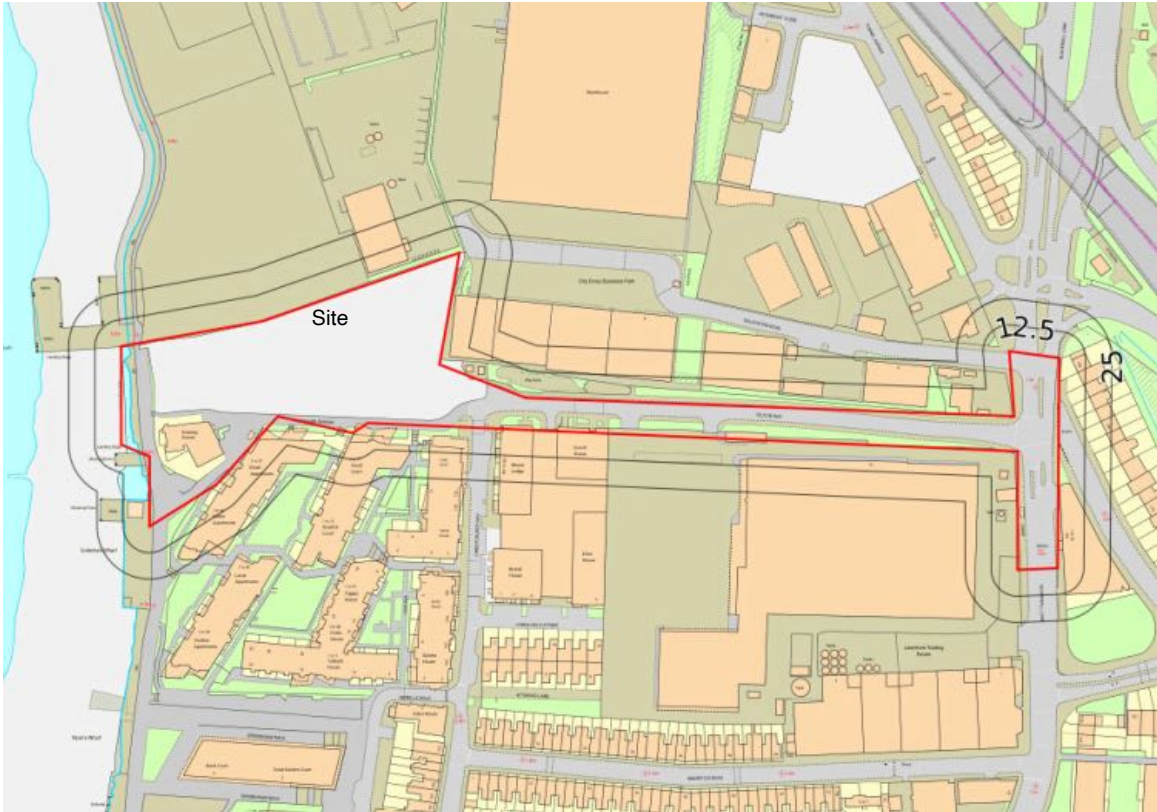


Figure 1: Site Location Plan



Figure 2: Aerial Photograph of the Application Site and Surrounding Area (2022)



Figure 3: Representative Areas of the Site

2.6 Previous Contaminated Land Assessment Reports

Various contaminated land reports of the Site have been provided by the Client and are summarised below.

Post Acquisition Environmental Site Assessment, Enderby Wharf, Greenwich, London, SE10 prepared by URS (ref. 47068442, dated 25 November 2013)

URS was instructed by Enderby Wharf LLP to undertake a Post Due Diligence Environmental Site Assessment (ESA) of Enderby Wharf, Greenwich, London, SE10. The purpose of the ESA was to support the discharge of three planning conditions associated with a proposed Development of the Site (comprising a mixed-use facility including residential apartment blocks, a hotel and a cruise terminal). The planning conditions (56 to 58 inclusive) related to planning consent for the Site (ref. 13/3025). It should be noted that the Site boundary of the ESA is similar to the Site boundary of this PRA report; however, the Site boundary of the ESA includes a large area of land to the southwest. The ESA report was approved by the Local Authority (ref. 14/0305/SD) and subsequently supported the discharge of planning condition 56 of the planning consent.

The scope of the ESA comprised a review of previous reports and investigations undertaken at the Site and included a Phase 1 and Phase II Environmental Due Diligence report completed by URS in April 2013. Eight trial pits to 4m below ground level (bgl) and nine boreholes to 3m bgl were progressed at the Site as part of the ESA, with subsequent soil and groundwater analysis and ground gas / vapour monitoring.

It was noted in the report that former uses of the Site included a whaling company in the 18th century and various other uses since the mid-1800s including boiler works, rope and sail works, foundry, telegraph works / submarine cable works and concrete works. Surrounding Site uses were reported to have comprised soap and candle manufacturing, a brick field, stone yard, paraffin oil works, iron works, cement works, ship building, rifle range, glucose refinery and council depot. The Site was most recently occupied by Alcatel-Lucent Submarine Networks.

It was reported from a review of available geological mapping that the geological sequence at the Site would be as follows: Made Ground, Alluvium, Kempton Park Gravel Member, Lambeth Group, Thanet Sands and Upper Chalk (from approximately 50m bgl). Previous investigations at the Site by URS reported groundwater at between 2m and 4m bgl and was reported to be tidally influenced.

Soil samples were collected and analysed for a broad range of determinands including metals, asbestos, phenols, PAHs, volatile and semi-volatile organic compounds, BTEX and petroleum hydrocarbons. Soil samples were screened against a Generic Assessment Criteria (GAC) for residential receptors and in consideration of the proposed end-use. It should be noted that soil sample results from previous phases of investigation at the Site were also included within the dataset and screened.

Two of 27no. soil samples exceeded the GAC for arsenic (maximum concentration 60.1 mg/kg). Six of 26no. samples exceeded the GAC for lead (maximum concentration 1,818 mg/kg). As the locations of the arsenic and lead exceedances were to be covered by buildings / hardstanding, there was not considered to be a viable pathway to future Site users. However, given the distribution of the lead exceedances, it was considered that the south of the Site could be impacted by lead contamination which included publicly accessible and private gardens.

Two of 36no. samples exceeded the GAC for Vinyl Chloride (maximum concentration 0.018 mg/kg). Four of the 42no. samples exceeded the GAC for Naphthalene (maximum concentration 286 mg/kg). Various other PAH compounds (excluding naphthalene) exceeded the GAC in 24no. of 42no. samples. Three of 20no. samples exceeded the GAC for petroleum hydrocarbons (it should be noted that the petroleum hydrocarbon exceedances were reported to be representative of the PAH exceedances and therefore the assessment of these exceedances will be the same as those referenced for PAHs). Asbestos was reported as present in five of 20no. samples analysed from the Made Ground.

Due to the presence of PAH compounds and asbestos in shallow Made Ground soils across the Site, along with elevated lead concentrations in the south of the Site, this material was not considered suitable for use in publicly accessible soft landscaping and private gardens. Potentially unacceptable exposure to naphthalene via an indoor air vapour inhalation pathway was identified and as such remedial excavation, off-Site disposal and verification sampling was recommended at one location (TP210). It should be noted that TP210 was located off-Site to the southeast (approximately 70m) when compared to the Site boundary of this PRA.

Vinyl Chloride exceedances in shallow soils were not considered to pose an unacceptable risk due to their positions in the proposed Site layout (i.e. under hardstanding) and tanked, ventilated basements preventing vapour inhalation pathways. A single groundwater sample (BH203) reported an elevated vinyl chloride concentration; however, vapour risks to future Site users were considered to be mitigated by ventilated basements.

One round of groundwater sampling was undertaken in March 2013 and one round of groundwater sampling was undertaken in October 2013. Minor exceedances of controlled waters GAC were identified for a number of compounds, including heavy metals, PAH compounds, sulphate and vinyl chloride. However, the concentrations of metals, PAHs and sulphate were considered to be typical of shallow groundwater concentrations associated with historic Made Ground in an urban industrial setting. Combined with generally low magnitudes of GAC exceedances and very large dilution factors that would incur to the principal receptor (River Thames), the reported concentrations were not considered to pose an unacceptable risk to controlled waters.

A vinyl chloride concentration of $59.7\mu\text{g/l}$ was reported at one location in March 2013 exceeding the GAC by a factor of six. However, elevated vinyl chloride was not detected in groundwater at the same location in October 2013. Hence there does not appear to be a consistent ongoing source of vinyl chloride in groundwater that is likely to pose an unacceptable risk to controlled waters. Furthermore, it was stated that the magnitude of exceedance was not considered significant when assessed against the very large dilution that would occur in the principal receptor, the River Thames.

Six rounds of ground gas monitoring were undertaken at the Site from 10no. boreholes in October and November 2013. The maximum reported methane concentration was 10% and the maximum reported carbon dioxide concentration was 6.4%. Peak flow rates were reported as 30.6l/hr. It was considered by URS that an area of the Site (in the vicinity of BH303) should be classified as Characteristic Situation (CS) 2 and the remainder of the Site to be classified as CS1. It should be noted that BH303 is located approximately 100m south of the current Site boundary of this PRA.

It was reported that due to elevated concentrations of PAHs, VOCs and TPH and in consideration of the pH values that shallow Made Ground soils across much of the Site may be unsuitable for laying unprotected polythene, PVC or copper water supply pipes.

Remediation Strategy, Enderby Wharf, Greenwich, London, SE10 prepared by URS (ref. 47068442, dated 25 November 2013)

URS was instructed by Enderby Wharf LLP to undertake a Remediation Strategy of Enderby Wharf, Greenwich, London, SE10. The purpose of the Remediation Strategy was to provide targeted remedial actions in consideration of the findings of the November 2013 ESA. This Remediation Strategy was approved by Local Authority (ref. 14/0305/SD) and subsequently supported the discharge of planning condition 56 of the planning consent.

It was detailed that the remediation strategy for the Site was in consideration of the proposed Development plans for the Site. As such, if the proposed Development were to change, the risk assessment would have to be revisited.

In consideration of the assessment and findings of the ESA, the following remedial actions were recommended for the Development:

Direct Contact Exposure

It was reported that shallow Made Ground soils at the Site were not considered to be suitable for use in publicly accessible soft landscaped areas or private gardens. Where they are needed to be used beneath soft landscaping and gardens, an appropriate cover system would be required. This was reported to comprise:

- In publicly accessible managed landscaped areas, a minimum of 300mm cover layer comprising imported validated subsoil and topsoil; and
- In private residential gardens, a minimum 600mm cover layer comprising validated imported subsoil and topsoil (with at least 300mm topsoil). The cover layer should be placed on top of a permeable geotextile membrane to act as a marker layer for the underlying Made Ground soils.

Exposure via Indoor Air Vapour Inhalation

Due to elevated concentrations of naphthalene at TP210 the options to mitigate this risk was as follows:

- Excavate the contaminated soils and appropriately dispose of off-Site, with the excavation subsequently validated.
- Installation of a vapour-proof membrane in the building foundations of Block F.

Given the basement excavation at Block F and removal of material off-Site, it was assumed by URS that the preferred option would be to dispose of the contaminated soils off-Site.

Gas Intrusion

A CS2 design was recommended in the vicinity of BH303 which was located adjacent to Block F. Various design methods to achieve a CS2 was detailed in the Remediation Strategy.

Water Supply Pipes

It was recommended that all water supply pipes that are laid in Made Ground materials should be polyethylene or PVC and laid in dedicated service trenches surrounded by gravel backfill or constructed of barrier pipe, wrapped in steel or ductile iron.

Verification Report, Enderby Wharf, prepared by Cognition Land and Water (ref. 5408, dated 9 June 2015)

Cognition Land and Water was instructed by UKD to undertake remediation and earthworks within the Hotel and Terminal Site of Enderby Wharf. The works comprised:

- 1) the breakout of a concrete slab and removal of obstructions to 0.25m AOD;
- 2) excavation of Made Ground to natural clay (to ensure no obstructions remained);
- 3) backfill and stabilisation of Site-won soils; and
- 4) installation of pile mat to 1.8m AOD.

It should be noted that the Site boundary of these works broadly reflected the Site boundary of this PRA report (excluding the road in the east).

The works comprised the removal of concrete obstructions to 0.25m AOD. The concrete obstructions were subsequently crushed to a 6F2 material for re-use as a piling mat at the Site. The 6F2 aggregate was sampled to assess if it was suitable for use. It was reported that stabilisation works were undertaken in two 250mm layers prior to emplacement of the piling mat. The piling mat was reported to be 550mm in thickness.

During obstruction removal works at the Site, two Underground Storage Tanks (USTs) were identified with one located in the centre of the Site and one located in the east of the Site. It was reported that the tanks were excavated with the excavations validated to ensure soils remaining in-situ were not contaminated. The excavations were backfilled with Site-won soils. It was reported that validation samples of soils remaining in-situ and of backfill material were suitable for use.

It should be noted that the above Verification Report did not appear to be in relation to the ESA and Remediation Strategy, prepared by URS.

Post Acquisition Environmental Site Assessment – Addendum Report, Enderby Wharf, Greenwich, London, SE10 prepared by AECOM (ref. 47068442, dated 29 February 2016)

AECOM was instructed by Enderby Wharf LLP to undertake an additional Site assessment of Enderby Wharf, Greenwich, London, SE10. The purpose of the report was to address comments and data gaps on the 2013 ESA, following a review by Environ Ltd. As such, further works were undertaken in the northwest of the Site (which broadly reflects the Site boundary of this PRA, excluding the road in the east). The further works included assessment of potential risks to the Kempton Park Gravel Member and Lambeth Group aquifers. The works included the completion of six boreholes to 1.5m bgl, four boreholes to 10m bgl and three boreholes to 20m bgl, with the works being undertaken in March and April 2015.

Ground conditions comprised of the following geological sequence: Made Ground, Alluvium (depth encountered 0.9-4.7m bgl), Kempton Park Gravel Member (depth encountered 5.7-7.0m bgl), Lambeth Group (depth encountered 11.5-12.0m bgl). Depth of groundwater during subsequent monitoring within the Kempton Park Gravel Member was reported to be between 3.13 and 3.52m bgl. Depth of groundwater within the Lambeth Group was between 4.07m and 7.25m bgl.

Soil samples were analysed for various determinands including metals, petroleum hydrocarbons, PAHs, volatile and semi-volatile organic compounds, PCBs, cyanide, pH, total organic content and asbestos. Due to changes in GACs, laboratory results from previous phases of investigations at the Site were also screened as part of this assessment. It was reported that following the 2015 investigation, the conclusions of the 2013 ESA have not significantly changed. As such, conclusions and recommendations were consistent with the 2013 ESA and the associated Remediation Strategy. It was noted that remediation activities (excavation and off-Site disposal) of soil naphthalene contamination in the vicinity of TP201 had been undertaken by Cognition Land and Water in 2014 (ref. CLW005408-001-v1).

One round of groundwater sampling was undertaken in April 2015 with samples analysed for a range of determinands including hydrocarbons, metals, PAHs, PCBs, volatile and semi-volatile organic compounds, cyanide, and pH. Minor exceedances of controlled waters GAC were identified for a number of compounds, including heavy metals, PAH compounds, sulphate and vinyl chloride within the Kempton Park Gravel Member. However, the concentrations of metals, PAHs and sulphate were considered to be typical of shallow groundwater concentrations associated with historic Made Ground in an urban industrial setting close to the tidal River Thames. Combined with generally low magnitudes of GAC

exceedance and very large dilution factors that would incur on the principal receptor (River Thames), the reported concentrations were not considered to pose an unacceptable risk to controlled waters. For vinyl chloride, factors including the low magnitude of GAC exceedance, the lack of a consistent ongoing source and the large degree of dilution to the River Thames were considered to demonstrate that the single identified concentration does not pose an unacceptable risk to controlled waters.

PAH compound exceedances were detected at one location (MW401_D) within the Lambeth Group. The PAH impact detected in the Lambeth Group was not considered to be significant given the low magnitudes of GAC exceedances and lack of evidence of continued impact down-gradient of MW401_D.

Five rounds of ground gas monitoring were undertaken from six wells and given the low levels of carbon dioxide and methane, the Site was considered to represent a 'very low risk' and classified as a CS1. No elevated readings of the Lower Explosion Limit were reported during the monitoring rounds.

3.0 Desk Study

The desk study has been researched with reference to the Groundsure Enviro + Geo Insight Report, historical mapping and the supplied Royal Borough of Greenwich (RBG) environmental information, presented in Appendix 3, in addition to other data sources as referenced.

3.1 Site History

1896 mapping indicated that the west of the Site comprised of an embankment that trended south (along the western boundary of the Site), along with approximately five large buildings and associated infrastructure. A jetty and causeway were located at the southwestern boundary of the Site. A large building located in the southwest of the Site extended off-Site to the south. 10no. tanks and approximately three large buildings were located in the centre of the Site. The eastern portion of the Site appeared to generally comprise undeveloped land. Blackwall Lane was located along the eastern boundary of the Site and trended south. The Site appeared to be part of a much larger Site that was located adjacent south and labelled as a 'Telegraph Works'. Adjacent west of the Site was the intertidal area of the River Thames. 'Enderby Wharf' was located adjacent southwest of the Site. Adjacent northwest of the Site was 'Thames Soap and Candle Works' and adjacent northeast appeared to be undeveloped land. East of the Site appeared to be undeveloped land. Southwest of the Site comprised of various large building structures of unknown use and southeast of the Site comprised of the aforementioned 'Telegraph Works'.

1916 mapping indicated that the western portion of the Site remained generally unchanged. A 'Landing stage' was located along the western boundary of the Site. Approximately 30no. tanks were located in the central area of the Site. The eastern portion of the Site remained generally unchanged. Land-uses located to the north, east and south of the Site generally remained the same. However, a 'Rifle Range' (adjacent northeast) and a 'Paint Works' (150m northeast) were now present.

1949-1953 mapping indicates that some of the buildings located in the west of the Site had undergone redevelopment. A tank was also present in the west of the Site. The central area of the Site continued to comprise a significant number of tanks. The eastern portion of the Site had been developed and comprised of a number of building structures. The Site continued to be part of a much larger Site located to the south and was labelled as a 'Submarine Cable Works'. The Thames Soap and Candle Works previously located northwest of the Site was no longer present and this area appeared to be undeveloped land. A 'Council Depot' appeared to be located north of the Site. The rifle range was no longer present northeast of the Site and an electricity substation was located in the vicinity of this area. A 'Laundry' was located approximately 150m northeast and adjacent to the paintworks. Terraced residential properties were located adjacent east of the Site and located east of Blackwall Lane. A very large building with associated infrastructure (tanks, boiler house, coal hopper and conveyor) was located south of the Site and labelled as the 'Submarine Cable Works'.

1965-1968 mapping indicates that the Site layout and uses remained generally the same. The paintworks and laundry, previously located northeast of the Site, were no longer present. A 'Plastic Works' was located adjacent northeast of the Site and a 'Gas Works' was located approximately 250m northeast of the Site. An 'Engineering Works' was located approximately 40m southeast of the Site.

1973-1974 mapping indicates that the western portion of the Site remained generally unchanged. The tanks previously located in the centre of the Site were no longer present. The

Site continued to be part of a much larger Site located to the south and was labelled as a 'Cable Works'. A 'Glucose Refinery' comprising of buildings and infrastructure (including tanks) was located adjacent north of the Site.

1980-1985 mapping indicates that the western and central portion of the Site had undergone redevelopment. Approximately four large buildings were located in the western and central portions of the Site, with the westernmost building labelled as 'Enderby House'. Building structures continued to be present in the east of the Site. The Site appears to continue to be connected to the much larger 'Works' Site to the south. The 'Works' located south of the Site appears to have been redeveloped with changes in building layout identified. A 'Printing Works' was located approximately 100m northeast of Site.

1990-1991 mapping indicates that the Site remained generally the same in layout and use; however, some variations in building layout were noted. Land uses surrounding the Site appeared generally to be the same. The engineering works previously located 40m southeast of the Site was no longer present. The glucose refinery, council depot, plastic works, printing works, gas works were still present at surrounding areas.

2001-2010 mapping indicates that a number of buildings were present in the west of the Site. The central portion of the Site appeared to be undeveloped land with no buildings or infrastructure present. A number of buildings continued to be present in the east of the Site. Whilst a large building located southeast of the Site (associated with the 'Works') was still present, the Site did not appear to be connected to this Site. Some buildings located adjacent southwest of the Site appeared to have undergone redevelopment.

3.2 Geology

The British Geological Survey (BGS) online map viewer indicates that the Site is underlain by Alluvium (superficial deposits) and the bedrock deposits are the Lambeth Group. BGS mapping (Sheet 270 South London) indicates that the Lambeth Group is underlain by the Thanet Sands, followed by the Upper Chalk.

A review of a nearby BGS borehole log (ref. TQ37NE4353 located approximately 100m south) reports Made Ground to 2.5m bgl, followed by Alluvium (generally reported as soft grey clay with layers of peat) to 6.2m bgl, followed by River Terrace Deposits (generally a dense sand and gravel) to 10m bgl. The River Terrace Deposits were encountered during the AECOM ground investigation works (as detailed in Section 2.6) and have been referenced as the Kempton Park Gravel Member. The River Terrace Deposits was underlain by the Lambeth Group (generally reported as a stiff silty/sandy clay becoming a clayey sand at approximately 19m bgl) to 25m bgl. The Lambeth Group was underlain by the Thanet Sands (generally reported as a slightly silty sand) to approximately 34m bgl. The Thanet Sands was underlain by the Seaford Chalk Formation.

A general stratigraphy of the London Basin is presented in Table 1.

Made Ground is expected above the naturally occurring strata related to the historic Development on Site. Made Ground is expected to exhibit a certain degree of heterogeneity and the nature of the material can be expected to vary substantially in both composition and thickness over short distances.

The Alluvium comprises clay, silt, sand and peat. This formation is considered to typically be of low permeability and potentially reduce the downward migration of potential contamination on-Site.

The Kempton Park Gravel Member comprises typically medium dense to dense sand and gravel, locally with lenses of silt, clay or peat. This Member is considered permeable and would potentially allow the migration of contamination on-Site / off-Site via groundwater, gas or vapours, if present.

The Lambeth Group comprises typically clay, silt and sand. This Member is generally considered variably permeable and would potentially allow the migration of contamination on-Site / off-Site via groundwater, gas or vapours, if present, within the granular deposits.

Period	Series		Deposits		
Quaternary	Holocene		Made Ground		
			Alluvium		
	Pleistocene		Langley Silt (Brickearth)		
			River Terrace Deposits		
Palaeogene	Eocene	Thames Group	London Clay Formation	Sub-Divisions A - D	
			Harwich Formation	Swanscombe Member Oldhaven Member	
		Lambeth Group	Woolwich Formation	Upper Shelley Beds	
			Reading Formation	Upper Mottled Beds	
			Woolwich Formation	Laminated Beds Lower Shelley Beds	
			Reading Formation	Lower Mottled Beds	
	Palaeocene			Upnor Formation	
		Thanet Sand Formation			Thanet Sand
					Bullhead Beds
					Haven Brow Beds
Cretaceous	White Chalk Sub-Group	Seafood Chalk Formation	Cuckmere Beds		
			Bell Tout Beds		

Table 1: General Stratigraphy of the London Basin

It should be noted that no active groundwater abstractions are located within 250m of the Site.

3.3 Hydrogeology

The depth to groundwater observed within the Kempton Park Gravel Member (during monitoring in 2016, AECOM ground investigations) was reported to be between 3.13m and 3.52m bgl. Depth to groundwater within the Lambeth Group was reported between 4.07m and 7.25m bgl.

During the review of the nearby BGS borehole log (ref. TQ37NE4353 located approximately 100m south), it was noted that groundwater was struck during drilling within the Alluvium at approximately 3.70m bgl. As such, it is considered that perched water may be present in more granular fractions within the Alluvium, where present.

The Environment Agency (EA) Groundwater Protection Policy uses aquifer designations that are consistent with the Water Framework Directive. These designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) and also their role in supporting surface water flows and wetland ecosystems:

- Principal Aquifers – layers that have a high permeability and are likely to support water supply and / or river base flow on a strategic scale.
- Secondary Aquifer (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 Aquifer - 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.
- Unproductive Strata – predominantly impermeable or low permeability layers that have negligible significance for water supply or river base flow.

The aquifer designations beneath the Site are as follows:

- Alluvium - Secondary Undifferentiated Aquifer;
- Kempton Park Gravel Member, Lambeth Group and Thanet Sands - Secondary A Aquifers; and
- the Upper Chalk - Principal Aquifer.

Perched groundwater would typically be expected in any Made Ground and also within the Alluvium. Groundwater within the underlying Kempton Park Gravel Member and Lambeth Group is expected to be tidally influenced and also be influenced by seasonal variations.

The Site is not within a groundwater source protection zone. There are no active surface water abstractions located within 250m of the Site.

3.4 Hydrology

Barton's map of the 'lost' rivers of London indicates that the nearest 'lost' river is located >2km southwest of the Site (River Ravensbourne).

The nearest surface water feature is the River Thames, which is located approximately 20m west of the Site (Appendix 3).

The Site surface area is currently 50% of hardstanding, and therefore infiltration to ground may be occurring in other areas (e.g. soft landscaping). As indicated in Section 2.6 within the Cognition Land and Water Verification Works Report, ground stabilisation has occurred at the Site (extents not known) and therefore this may reduce ground infiltration in some areas.

Reference to the gov.uk website and Groundsure report indicates that the Site is located within an area with a very low risk of flooding from rivers and sea. The majority of the Site is located within a very low risk from surface water flooding. However, some areas are designated as between low risk and high risk. In addition, information within the Groundsure report suggests that there is a low risk associated with groundwater flooding.

It should be noted that this factual information does not constitute a formal flood risk assessment.

3.5 Utilities and Underground Infrastructure

As indicated in the search results presented in Appendix 3, there are no reported transport tunnels beneath the Site. The standard utilities would be expected along highways and connecting with the adjacent properties (e.g. mains water, foul and surface water sewers, gas, electricity, telecoms etc). Future Development should carefully consider the route of existing utility connections across the Site.

3.6 Geotechnical Risk / Unexploded Ordnance Risk

Very low or negligible risks relating to shrink swell clays, running sands, compressible deposits, collapsible deposits, landslides and ground dissolution of soluble rocks have been identified from the Desk Study references, which assumes foundation design in accordance with current best practice guidance.

The unexploded ordnance (UXO) risk map for the area produced by Zetica shows that the Site lies in a high-risk area for UXO (Appendix 3). Further assessment and / or adoption of mitigation actions in regard to UXO are recommended prior to any intrusive investigation or construction activities.

3.7 Radon

The Site is within an area where less than 1% of properties have a radon level at or above the Action Level in Great Britain. Radon protection measures are not required.

3.8 Environmental Database Search

A complete search of environmental registers (including RBG supplied information) is presented in Appendix 3. An environmental database report has been procured from Groundsure (dated October 2023) and a summary of information is presented below in Table 2.

3.9 Royal Borough of Greenwich

The Environmental Health Team at the RBG was contacted regarding the Site. A response was received on 8 November 2023 and pertinent information is summarised below.

In regard to contaminated land under Part 2A of the Environmental Protection Act 1990, the response included the following statement:

'I can advise that we have not identified it as contaminated land under Part 2A of the Environmental Protection Act 1990; however, as we are yet to prioritise sites, I cannot confirm whether action will be taken in the future that may alter its status. I can confirm however, we will not be taking action at the Site you have listed, at this point in time.'

In regard to former uses of the Site and surrounding area, the response included the following statement:

'the general area currently has a mixture of commercial properties and a brewery (Meantime Brewing Company), with some residential (old and new developments) in the surrounding area. Historically the general area has been subject to a range of warehouse/industrial/activities, and submarine works, and Royal Woolwich Arsenal works with the scope for potential contamination. Given the general Site history potential contaminants are likely to include metals, hydrocarbons, polychlorinated biphenyls, polyaromatic hydrocarbons, asbestos and other organic and inorganic contaminants and unexploded ordnance.'

Environmental Search	On-Site	Within 50m	Within 250m
<p>Potentially Contaminative Land Uses (historical). Pertinent entries located on-Site include: 'Unspecified tanks' from c.1882 to 1991; 'Concrete works' from c.1882 to 1898; 'Telegraph and cable works' from c.1894 to 1979; 'Railway sidings' from c.1894 to 1948; 'Electricity transformer and substation', from c.1974 to 1991; 'Service station garage', c.1951; 'Soap and candle works' from c.1894 to 1938; and 'Unspecified wharf' from c. 1882 to 1979.</p> <p>Pertinent entries located off-Site include: 'Electricity substations and transformers', from 1m, from c.1951 to 1991; 'Railway sidings' from 1m northwest, from c. 1898 to 1948; 'Unspecified wharf', from 3m west, from c.1913 to 1994; 'Unspecified depot', located 4m north, from 1973 to 1994; 'Unspecified commercial/industrial', from 9m east, from c.1899 to 1994; 'Soap and candle works', from 10m north, from c1882 to 1948; 'Unspecified foundry', 10m southwest, from 1882 to 1898; 'Boat building yard, 14m west, from c.1894 to 1899; 'Unspecified tanks', from 9m, from 1894 to 1994; and, 'Engineering works', from 30m southeast, from c.1967 to 1979.</p>	73	55	204
<p>Historical Licensed Industrial Activities Pertinent entries include: 'Acid processes' located 72m northwest and dated 1994; and 'Combustion processes' located 202m north and most recently dated 2005.</p>	0	0	2
<p>Licensed Industrial Activities (Part A(1)) Pertinent entries include: Reclamation of oils, treatment and transfer facility, located 55m east and most recently dated 2023; Reclamation of oils, treatment and transfer facility, located 115m east and most recently dated 2023; Fuel production from wastes, located 204m north, and most recently dated 2023; and Disposal / treatment of food wastes, located 229m north, and most recently dated 2023.</p>	0	0	4
<p>Radioactive Substance Authorisations The Alcatel-Lucent Submarine Networks Site located 56m southeast hold a licence for the disposal of radioactive waste.</p>	0	1	0
<p>Licensed Discharge to Controlled Waters The glucose refinery Site located 72m northwest held a licence up to 1991. The receiving water was 'gravel strata' and assumed to be the Kempton Park Gravel Member.</p>	0	0	1
<p>Pollution Incidents The on-Site pollution incident was dated October 2019 and the pollutant was listed as 'inert materials and wastes' and related to 'construction and demolition materials and wastes'. The water and air impact was listed as 'no impact' and the land impact was listed as 'significant'.</p>	1	0	0

<p>Landfill and Waste Sites The following landfill and waste Sites are located within 250m of the Site: A 'historical landfill' for inert waste was located 221m northeast and a 'historical waste Site' for a recycling centre was located 116m northeast. Licensed waste Sites are located 115m northeast (for waste treatment and transfer facility) and 132m northeast (for the recovery of waste oils). It should be noted that two waste exemption records have been identified at the Site for 'storing waste in secure containers'. No other information or dates have been provided.</p>	0	0	4
<p>Current Land Uses – Pertinent entries include: 'a jetty' located 2m west; 'Enderby Wharf', located 20m west; 'Tank', located 31m northwest; 'Electricity substation', located 48m east; 'a recycling, reclamation and disposal' facility, located 109m northeast; 'scrap metal merchants', located 164m northeast; and 'gas features', located 225m east. It should be noted that a former recent petrol station was located 118m east of the Site.</p>	0	9	28
<p>Mining, Quarrying It should be noted that numerous 'ground workings' were reported at the Site (between 1882 and 1967) for the land use 'unspecified wharf'. A sand quarry was located 76m southeast. However, a date is not specified. There are also records of research stone mining located 86m southwest of the Site.</p>	0	0	2
<p>Environmental Designations A Priority Habitat Inventory location is located adjacent west of the Site. The habitat is 'mudflats'.</p>	0	1	0

Table 2: Environmental Database Search Summary

3.10 Environmental Sensitivity

Overall, the Site setting is considered to be of **moderate** environmental sensitivity, for the following reasons:

- The Site is located in a mixed residential and commercial area;
- The Site is underlain by Secondary A Aquifers;
- The River Thames is located approximately 20m west of the Site;
- A Priority Habitat Inventory is located adjacent west of the Site (mudflats);
- There are no active surface water or groundwater abstractions located within 250m of the Site; and

- The Site is located within an area with a very low risk of flooding from rivers and sea, a very low to high risk from surface water flooding and a low risk associated with groundwater flooding.

3.11 Preliminary Conceptual Site Model

The information presented within chapters 2 and 3 of this report has been used to complete a Preliminary Conceptual Site Model (PCSM) that details the potential contaminant sources, pathways and receptors, with regard to Environment Agency/DEFRA; Priority Contaminants for the Assessment of Land (CLR8). Whilst it is noted that this document has been withdrawn it is still considered pertinent to identifying potential sources of contamination.

The PCSM is presented in Table 3.

3.12 Preliminary Risk Assessment (PRA)

The Preliminary Risk Assessment (PRA) considers the information provided in the previous sections, including the PCSM. The PRA and risk ratings assigned in Table 4 are based on the qualitative risk assessment matrices presented in CIRIA C552 which are reproduced in Appendix 4.

The likelihood of pollutant linkages being present between the potential contaminant sources, pathways and receptors identified in the PCSM are outlined in Table 4.

Based on the results of the PRA:

- The Site is considered to be of **moderate** environmental sensitivity.
- There is considered to be **Moderate** risks associated with volatile vapours from on-Site sources of contamination (soil and groundwater).
- **Moderate/Low** risks have been identified in regard to direct contact exposure from on-Site sources of soil contamination. However, based on the 2013 and 2016 ground investigation assessments, it is anticipated that these potential risks can be mitigated through basic mitigation measures such as clean cover systems and building design mitigation (e.g. ventilated basements).
- 2013 and 2016 ground investigations did not report groundwater contaminant concentrations that were considered to pose a significant risk to controlled water receptors and as such, associated risks are considered **Low**.
- The potential for the Site to be designated as contaminated land (as defined in Part 2A of the Environmental Protection Act) is considered to be **low**. However, this is on the assumption that any planning conditions related to potential land contamination issues are dealt with to the satisfaction of the Local Authority as part of the Development.

It is recommended that further ground investigation works are undertaken at the Site to assess the ground, groundwater and ground gas/vapour conditions (based on the proposed end-use) and, if required, develop an appropriate remediation strategy. The ground investigation should consider and be informed from the results and findings of the 2013 and 2016 ground investigations and assessments. Aims of the ground investigation should include verifying the ground conditions that were reported within the 2013 and 2016 assessments. The scope and

purpose of the proposed investigation should be agreed with the RBG, prior to undertaking the works.

Potential Contaminant Sources	On-Site	<ul style="list-style-type: none"> • Telegraph Works and Submarine Cable Works including numerous tanks (1896 to 2001). • Wharf (1896 to 2001). • Concrete Works (1882 to 1898). • Service Station Garage (1951). • Electricity Transformers and Substations (1974 to 1991).
	Off-Site	<ul style="list-style-type: none"> • Soap and Candle Works, adjacent northwest (1896 to 1949). • Telegraph Works and Submarine Cable Works including numerous tanks, adjacent south (1896 to present). • Rifle Range, adjacent northeast (1916 to 1949). • Paintworks, 150m northeast (1916 to 1965). • Council Depot, adjacent north (1949 to present). • Laundry, 150m northeast (1949 to 1965). • Plastic Works, adjacent northeast (1965 to recent). • Glucose Refinery, adjacent north (1965 to recent). • Printing Works, 100m northeast (1980 to recent). • Engineering Works, 40m southeast (1965 to 1990). • Electricity substations, from adjacent areas (1951 to present). • Foundry, 10m southwest (1882 to 1898). • Boat building, 14m west (1894 to 1994). • Petrol Station, 118m east (recent).
Associated Contaminant	On-Site	<ul style="list-style-type: none"> • Heavy metals and inorganic contaminants including Asbestos Containing Materials (ACM). • Organic contaminants including petroleum hydrocarbons, BTEX, PAHs, PCBs, volatile organic compounds, semi-volatile organic compounds, phenols and cyanide. • Possible generation of bulk ground gases and volatile vapours. <p>It should be noted that previous investigations at the Site reported elevated soil concentrations of arsenic, lead, PAHs and vinyl chloride (when compared to residential end-use criteria) along with the presence of asbestos in Made Ground soils.</p>
	Off-Site	<ul style="list-style-type: none"> • Heavy metals and inorganic contaminants. • Organic contaminants including petroleum hydrocarbons, BTEX, PAHs, PCBs, volatile organic compounds, semi-volatile organic compounds, phenols and cyanide. • Possible generation of bulk ground gases and volatile vapours.
Receptors		<ul style="list-style-type: none"> • Future Site users. • Construction workers. • Buildings. • Neighbouring residents. • River Thames and mudflats. • Underlying Secondary (A) Aquifers.

Pathways to Receptors	<ul style="list-style-type: none">• Migration of ground gases and volatile vapours via groundwater and unsaturated zone of underlying Kempton Park Gravel Member and Lambeth Group.• Direct contact, inhalation and ingestion of contaminants from within below ground soils.• Migration via wind-blown dust.• Contaminant migration via groundwater.
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Table 3: Preliminary Conceptual Site Model.

Pathway Linkage	Likelihood of Pollutant Linkage	Consequences	Risk Rating	Reasoning
Future Site Users and Construction Workers (Direct exposure pathway) from Potential On-Site Contamination Sources				
Ingestion / Dermal Contact / Inhalation (Site Users)	Low	Medium	Moderate / Low	<p>Potential on-Site sources of contamination have been identified and most notably the Telegraph Works and Submarine Cable Works (c.1896 to 2001), which included numerous tanks. However, 2013 (URS) and 2016 (AECOM) ground investigations and assessments generally reported low level contaminant concentrations for a residential end-use. As such, the risk is considered to be Moderate/Low. Where elevated contaminant concentrations were identified and a potential risk to future Site users was identified, this was proposed to be mitigated through the implementation of a clean cover scheme (in soft landscaped areas). Given the similarities in end-use when comparing the 2016 Development scheme and the current proposed Development scheme, it is expected basic mitigation (i.e. clean cover) can again be proposed to mitigate a potential risk.</p> <p>Potential exposure for maintenance and construction workers will be acute and it is assumed they will adopt appropriate management procedures to mitigate potential risks.</p>
Ingestion / Dermal Contact / Inhalation (Maintenance and Construction Workers)	Unlikely	Medium	Low	
Future Site Users (Direct exposure pathway) from Potential Off-Site Contamination Sources				
Ingestion / Dermal Contact / Inhalation (Site Users)	Unlikely	Medium	Low	<p>Various potential off-Site sources of contamination have been identified and most notably a soap and cable works and a glucose refinery (adjacent northwest), council depot (adjacent north), plastic works (adjacent northeast), telegraph works and submarine cable works (adjacent south) and electricity substations located from adjacent areas.</p> <p>The Site is likely to be underlain by Alluvium to c.6m bgl followed by the Kempton Park Gravel Member. Given the cohesive properties of the Alluvium it is unlikely to support a continuous groundwater unit capable of contaminant migration. The Kempton Park Gravel Member is likely to support a continuous groundwater unit. However, given the depth of this unit, direct contact risks to future Site users are considered low.</p>
Ingestion / Dermal Contact / Inhalation (Maintenance and Construction Workers)	Unlikely	Medium	Low	

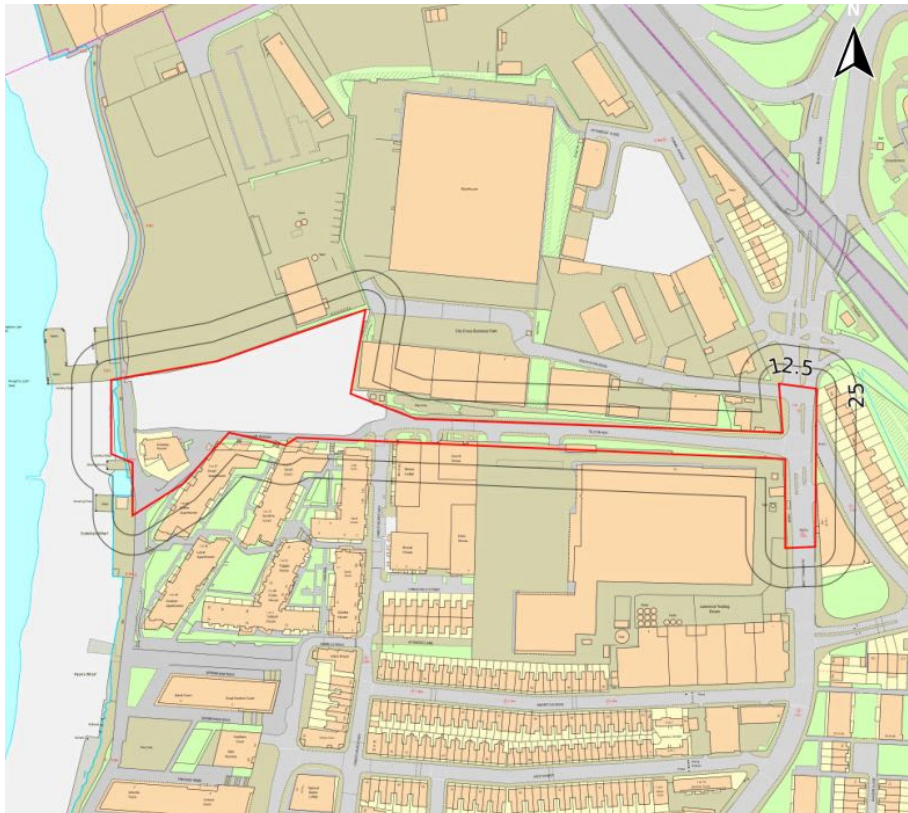
Pathway Linkage	Likelihood of Pollutant Linkage	Consequences	Risk Rating	Reasoning
Neighbouring Site Users during Construction				
Wind-blown dust during construction	Low	Medium	Moderate / Low	There is the potential for wind-blown dust to migrate off-Site during construction works and as such the risk is considered Moderate/Low. However, the risk is likely to be reduced during construction through permitter fencing and also dampening down if considered to be required.
Future Site Users (Indirect exposure pathway) from Potential On-Site Contamination Sources				
Enclosed space accumulation of ground gas and volatile vapours	Low	Severe	Moderate	Potential on-Site sources of contamination have been identified and most notably the Telegraph Works and Submarine Cable Works, which included numerous tanks. However, 2013 and 2016 ground gas monitoring at the Site indicated that it conformed to Situation CS1.
Outdoor volatile vapour exposure	Unlikely	Medium	Low	Elevated soil and groundwater concentrations of PAHs and vinyl chloride were reported in the 2013 and 2016 ground investigations and are considered to represent a potential volatile vapour source. As such, the risk is considered to be Moderate. However, the potential risk to future Site users was noted to be mitigated through the ventilation of basements. As such, it is expected that basic mitigation through building design could again mitigate the potential risk. The likelihood of outdoor exposure is considered unlikely given the proposed end-use.
Ingress into potable water supply pipes	Low	Medium	Moderate / Low	Upgraded water pipe material may be required. However, confirmation with the statutory undertaker is recommended.

Pathway Linkage	Likelihood of Pollutant Linkage	Consequences	Risk Rating	Reasoning
Future Site Users (Indirect exposure pathway) from Potential Off-Site Contamination Sources				
Enclosed space accumulation of ground gas and volatile vapours	Unlikely	Severe	Moderate / Low	Various potential off-Site sources of contamination have been identified and most notably a soap and cable works and a glucose refinery (adjacent northwest), council depot (adjacent north), plastic works (adjacent northeast), telegraph works and submarine cable works (adjacent south) and electricity substations located from adjacent areas.
Outdoor volatile vapour exposure	Unlikely	Medium	Low	<p>The Site is likely to be underlain by Alluvium to c.6m bgl, followed by the Kempton Park Gravel Member. Given the granular composition of the Kempton Park Gravel Member, it could enable migration of ground gas and volatile vapours via the unsaturated zone and groundwater.</p> <p>However, 2013 and 2016 ground gas monitoring at the Site indicated that the Site conformed to Situation CS1.</p> <p>Elevated concentrations of vinyl chloride and PAHs in groundwater were reported during the 2013 and 2016 ground investigations and represents a potential volatile vapour source. Contamination may have originated from an off-Site source and as such, associated risks are considered Moderate to Low.</p>
Ingress into potable water supply pipes	Low	Medium	Moderate / Low	Upgraded water pipe material may be required. However, confirmation with the statutory undertaker is recommended.
Risks to Buildings and Services from Potential On-Site Contamination Sources				
Risks to buildings and services via accumulation of ground gas and volatile vapours in enclosed spaces and sub-floor voids	Low	Severe	Moderate	<p>2013 and 2016 ground gas monitoring at the Site indicated that it conformed to Situation CS1.</p> <p>Elevated soil and groundwater concentrations of PAHs and vinyl chloride were reported in the 2013 and 2016 ground investigations at a number of locations and considered to present a potential volatile vapour source. As such, the risk is considered to be Moderate. However, the potential risk to future Site users was noted to be mitigated through the ventilation of basements. As such, it is expected that basic mitigation through building design could again mitigate the potential risk.</p>

Pathway Linkage	Likelihood of Pollutant Linkage	Consequences	Risk Rating	Reasoning
Risks to Buildings and Services from Potential Off-Site Contamination Sources				
Risks to buildings and services via accumulation of ground gas and volatile vapours in enclosed spaces and sub-floor voids	Unlikely	Severe	Moderate / Low	<p>2013 and 2016 ground gas monitoring at the Site indicated that the Site conformed to a CS1.</p> <p>Elevated concentrations of vinyl chloride and PAHs in groundwater were reported during the 2013 and 2016 ground investigations and represents a potential volatile vapour source. Contamination may have originated from an off-Site source and as such, associated risks are considered Moderate/Low.</p>
Water and Environment Receptors				
Contaminant migration on to neighbouring land	Unlikely	Medium	Low	<p>Potential on-Site and off-Site sources of contamination have been identified.</p> <p>The Site and surrounding area is underlain by the Alluvium which is considered (to an extent) to impede potential contaminant migration to the underlying Kempton Park Gravel Member (Secondary A Aquifer).</p>
Contaminant migration from neighbouring land	Unlikely	Medium	Low	<p>Furthermore, 2013 and 2016 ground investigations at the Site which included groundwater monitoring of the Kempton Park Gravel Member and Lambeth Group did not report elevated concentrations of contaminants that were considered to represent a risk to identified controlled water receptors.</p>
Contamination of groundwater	Unlikely	Medium	Low	<p>Furthermore, the majority of the Site will be covered by hardstanding/building and as such, ground infiltration will be limited and the potential for contaminant mobilisation reduced.</p>
Contamination of surface water and designated environmental / ecological Sites	Unlikely	Medium	Low	<p>The River Thames (and associated mudflats) are located approximately 20m west of the Site.</p> <p>However, 2013 and 2016 ground investigations at the Site which included groundwater monitoring of the Kempton Park Gravel Member and Lambeth Group did not report elevated concentrations of contaminants that were considered to represent a risk to identified controlled water receptors.</p>
Overall Risk Rating			Low to Moderate	

Table 4: Potential Pollutant Linkages

Appendix 1 Site Location Plan



Appendix 2 Proposed Development Drawings

LEGEND

GENERAL

- Site boundary

CHARACTER AREAS

- 1 The Riverfront
- 2 Garden Approach
- 3 The Resident's Garden
- 4 Super Ha-Ha
- 5 Telegraph Avenue
- 6 The Secret Garden and the Allotments

GENERAL ARRANGEMENT

- Ramps + Flood wall
- Water Fountain
- Benches
- Mixed shrub and herbaceous planting
- Amenity grassland
- Hedges
- Existing surface level
- Proposed surface level
- Proposed surface fall
- Play Trails
- Proposed Trees - 8m
- Proposed Trees - 6m
- Proposed Trees - 3m
- Play Elements
- Allotments - Raised bed
- Cycle stands



Rev	Date	Description	By	CHK
P01	17/11/23	UR&T	YL	RS

DRAFT

Project	Enderby Place	Drawing status	Planning	Drawn by	YL
Client	Maritime View Ltd	Date	25/09/2023	Checked by	RS
Drawing title	Landscape General Arrangement Plan	Drawing number	8416-PL-X-GA-100	Rev	Scale
	Ground Floor		P01	1:200	@ AD

0 10m N

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LEGEND

GENERAL

Site boundary

GENERAL ARRANGEMENT

Biodiverse Roof



Rev	Date	Description	By	CHK
P01	17/11/23	UR&T	YL	RS

DRAFT

Project: Enderby Place
 Client: Maritime View Ltd
 Drawing title: Landscape General Arrangement Plan
 Roof Plan

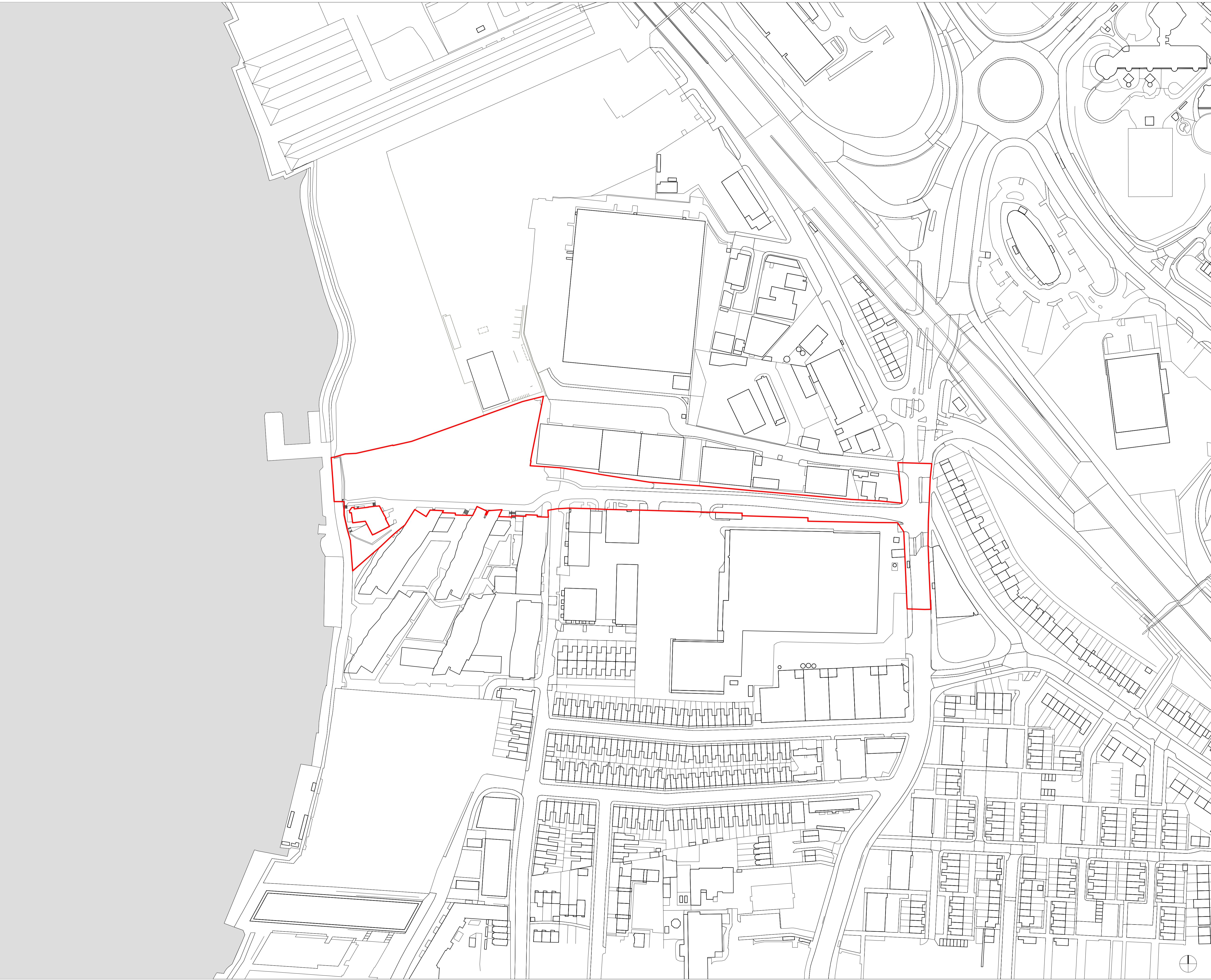
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 Date: 24/10/2023
 Drawing number: 8416-PL-X-GA-101

Drawn by: YL
 Checked: RS
 Rev: P01
 Scale: 1:200 @ AD

0 10m N

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Sizes of and dimensions to any service elements are indicative only. See service engineers drawings for actual sizes and dimensions.
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NOTES:

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P1	10/09/2021			HB

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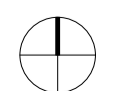
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PROJECT	Enderby Place
DRAWING	Site Location Plan

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DATE	September 2021
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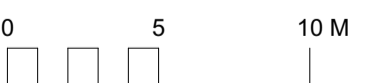
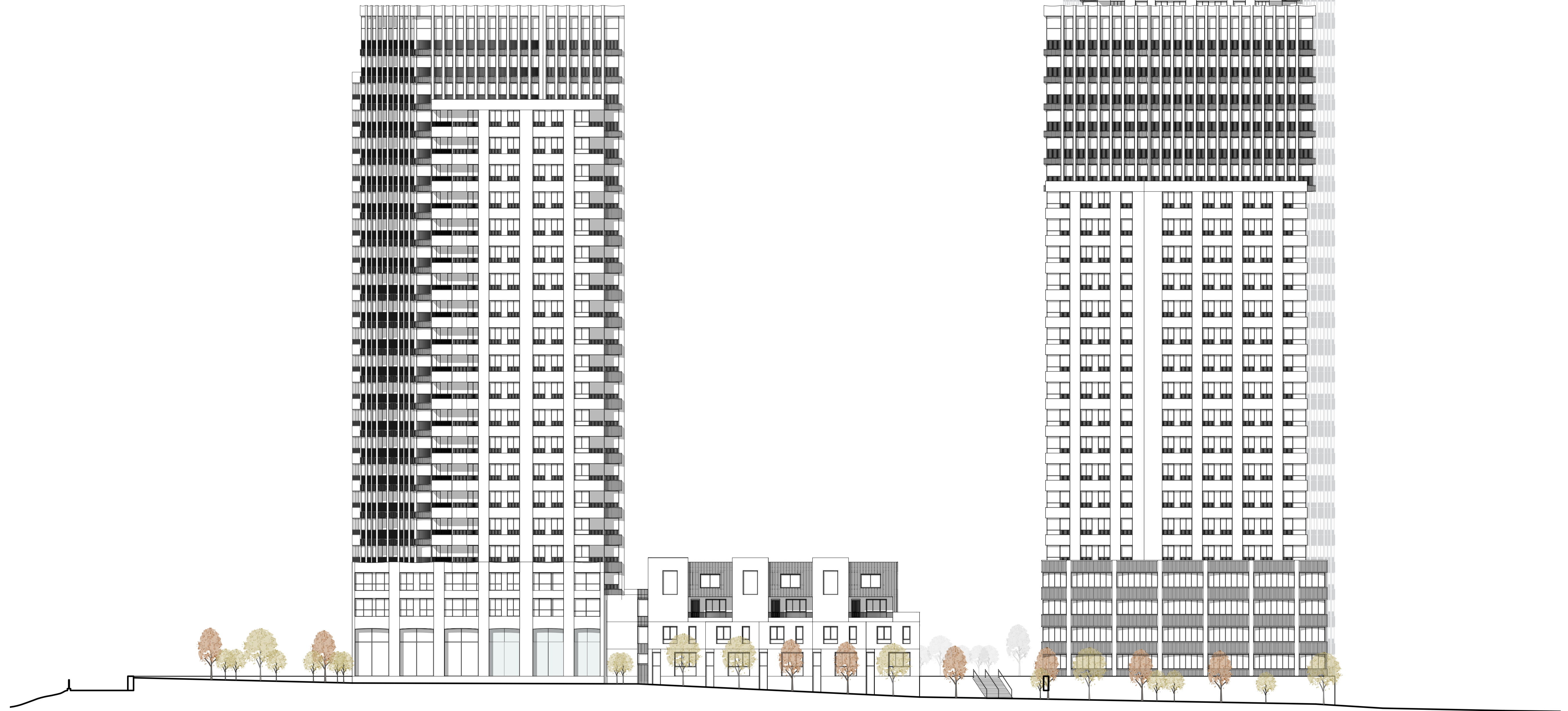
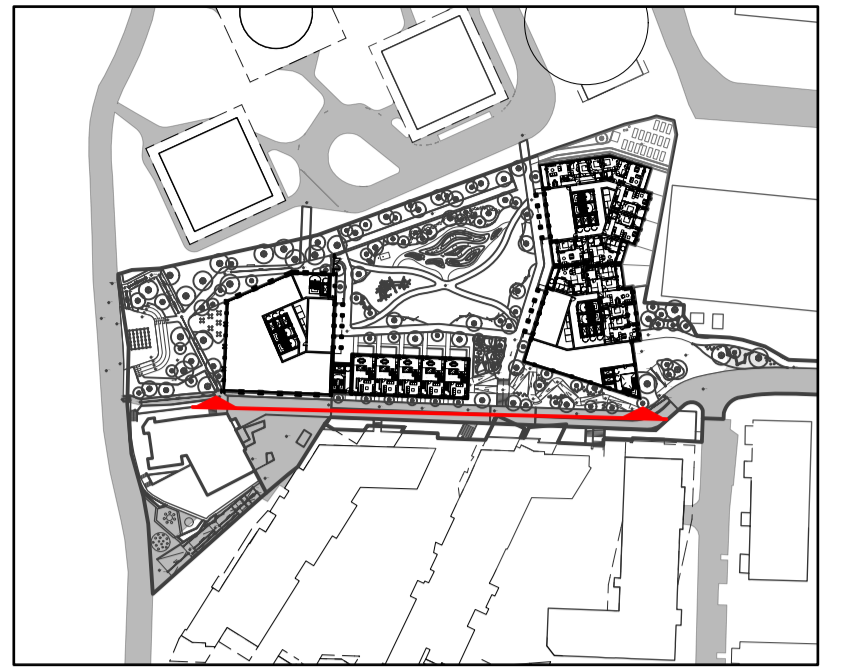
DWG No.	1136_S-00	REVISION	P1
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STATUS	INFORMATION	APPROVED	AB
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FINISHES KEY

- 1 GRC - CREAM COLOURED
- 2 GRC - RED COLOURED
- 3 GRC - GREEN COLOURED
- 4 GRC - OCHRE COLOURED
- 5 GLAZED TILES
Ochre coloured tiles
- 6 GLAZING
High quality aluminium framed windows with solid aluminium panels
(Cream, Red, Green or Ochre)
- 7 BALUSTRADES
Powder coated finish
(Cream, Red, Green or Ochre)



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27.10.23

REV. DATE NOTE

DRAWN

CLIENT
Criterion Capital

PROJECT
Enderby

DWG No.
1136_GE-109

Revision
P2

DRAWING
**Proposed Elevations
- Site Elevation South**

STATUS
PLANNING APPROVED

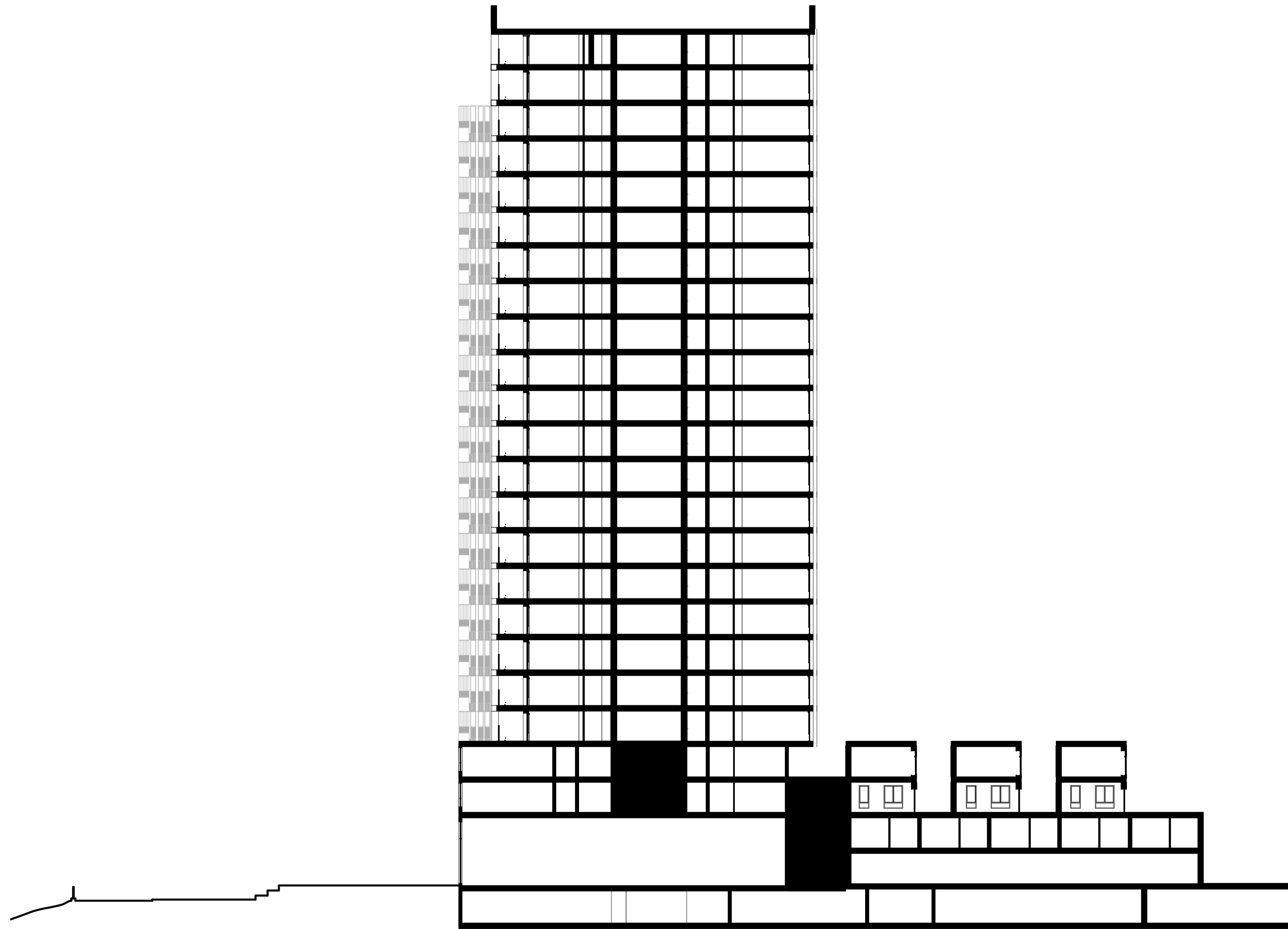
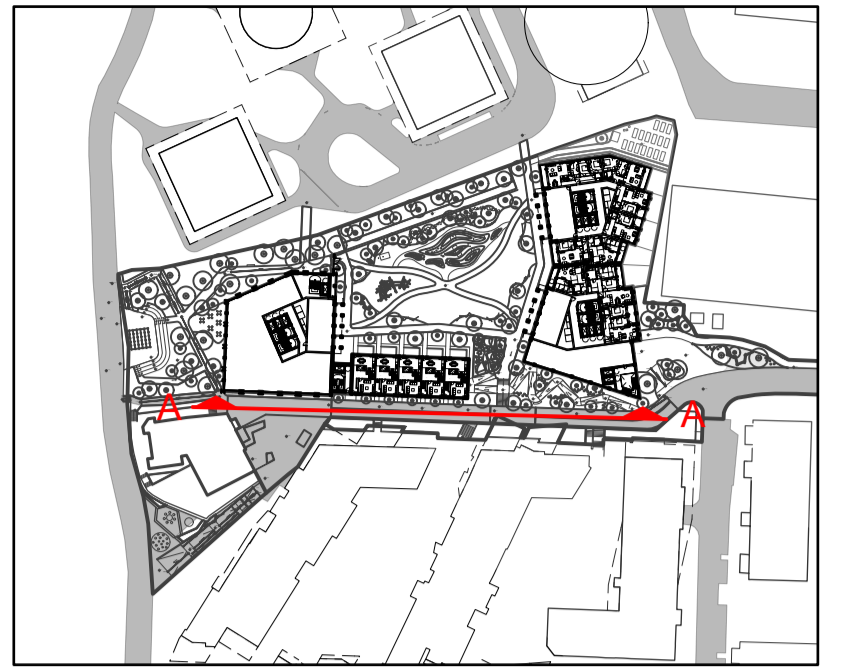
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**1:250 @ A1
1:500 @ A3**

DATE
October 2023

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FINISHES KEY

- 1 GRC - CREAM COLOURED
- 2 GRC - RED COLOURED
- 3 GRC - GREEN COLOURED
- 4 GRC - OCHRE COLOURED
- 5 GLAZED TILES
Ochre coloured tiles
- 6 GLAZING
High quality aluminium framed windows with solid aluminium panels
(Cream, Red, Green or Ochre)
- 7 BALUSTRADES
Powder coated finish
(Cream, Red, Green or Ochre)



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This drawing to be read in conjunction with all other Architect's drawings, specifications and other Consultants' information. All proprietary systems shown on this drawing are to be installed strictly in accordance with the Manufacturers/Suppliers recommended details.
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REV. DATE NOTE DRAWN

CLIENT Criterion Capital		DRAWING Proposed Section AA	
PROJECT Enderby		STATUS PLANNING	APPROVED
DWG No. 1136_GS-100	Revision P2	SCALE 1:250 @ A1 1:500 @ A3	DATE October 2023

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Appendix 3 Desk Study References

Figure A Historical Map Extract, OS 1:2500 1896

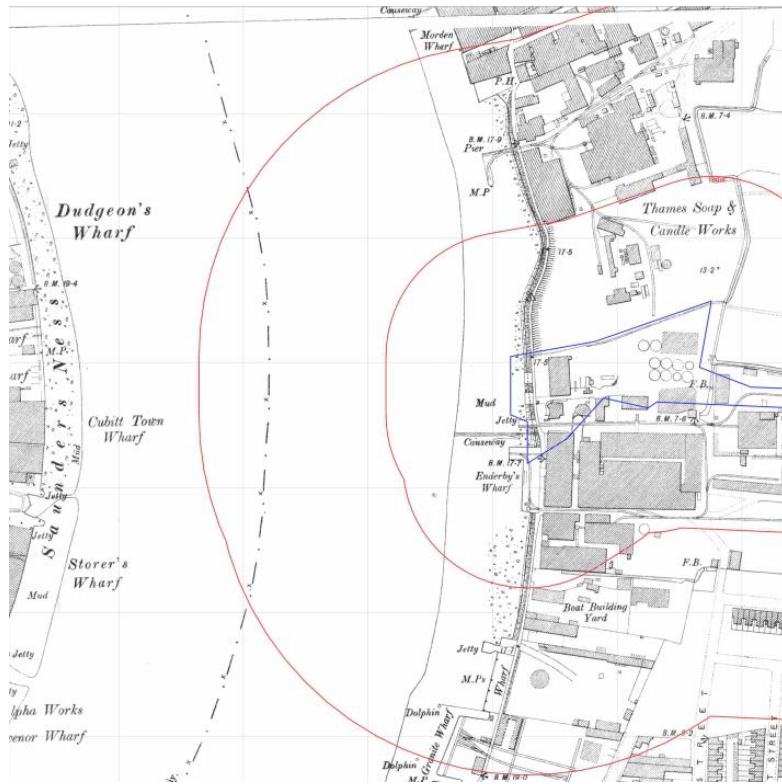


Figure B Historical Map Extract, OS 1:2,500 1916

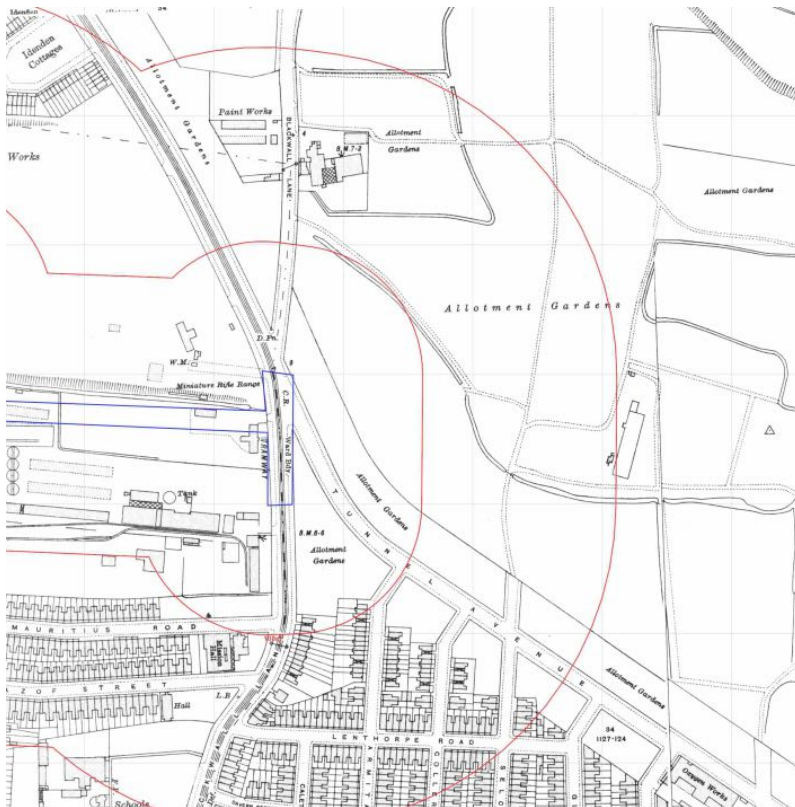
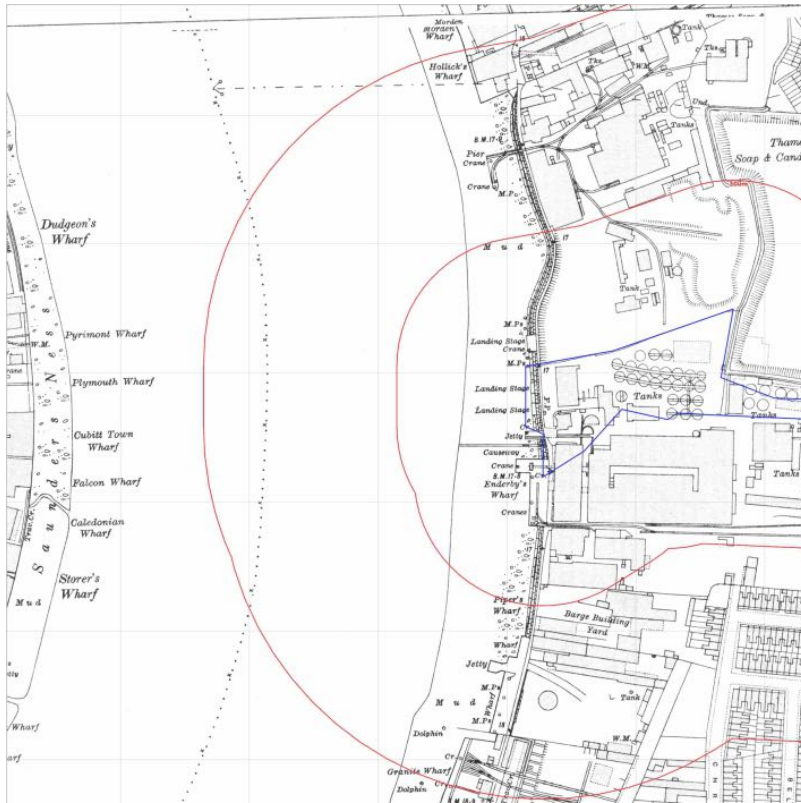


Figure C Historical Map Extract, OS 1:2,500 1949-1953



Figure D Historical Map Extract, OS 1:1,250 1965-1968

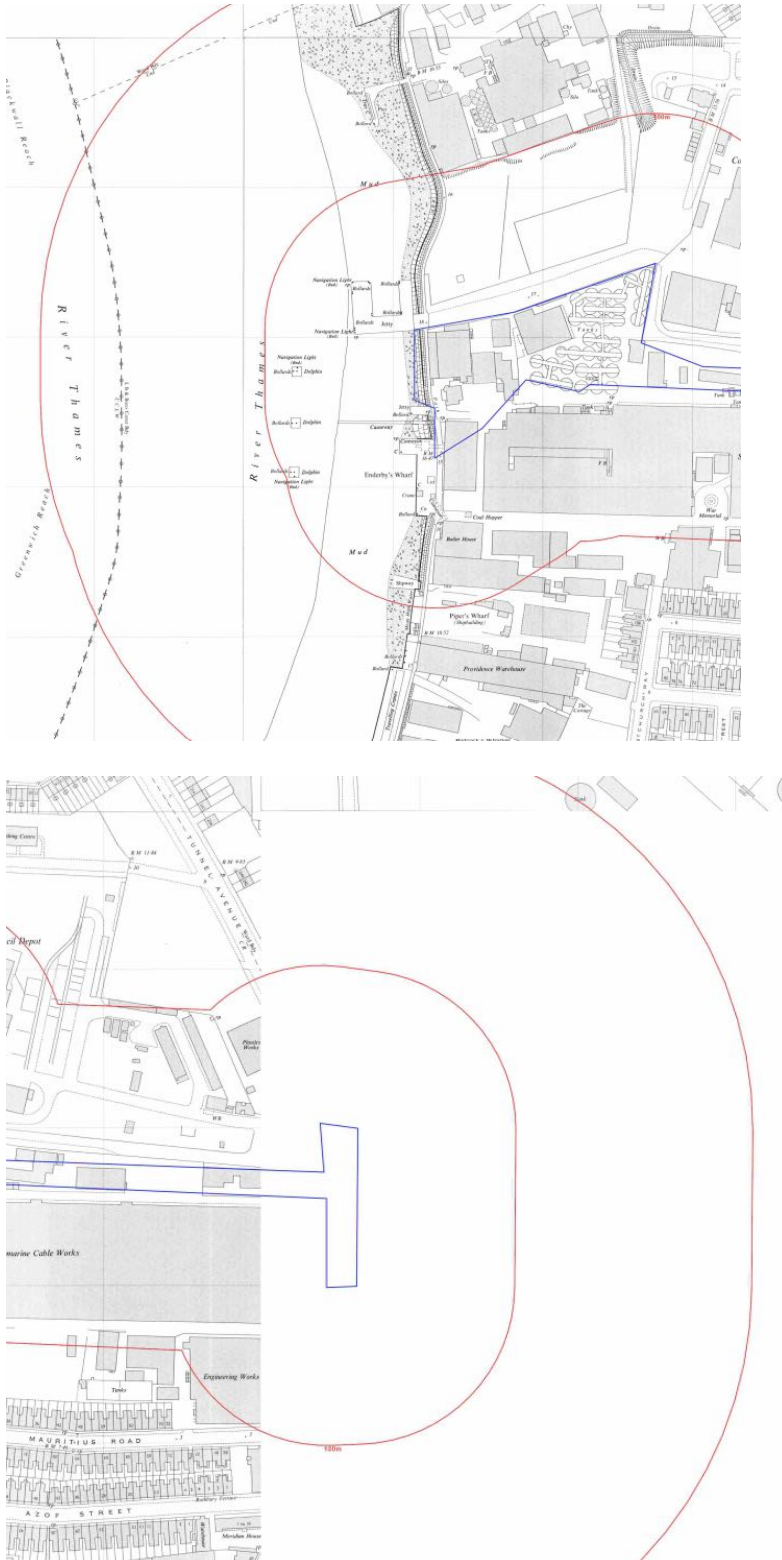


Figure E Historical Map Extract, OS 1:1,250 1973-1974

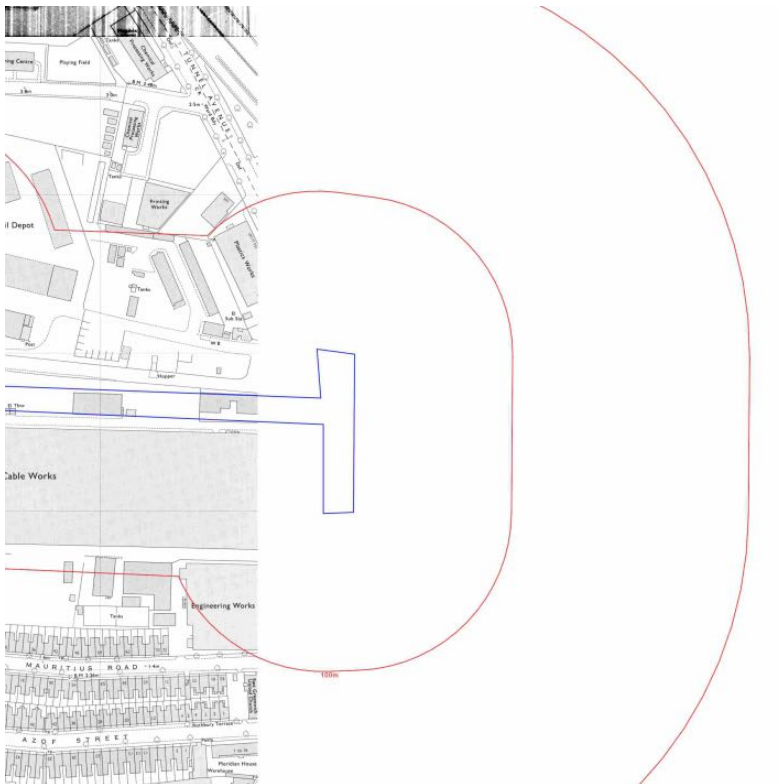


Figure F Historical Map Extract, OS 1:2,500 1980-1985

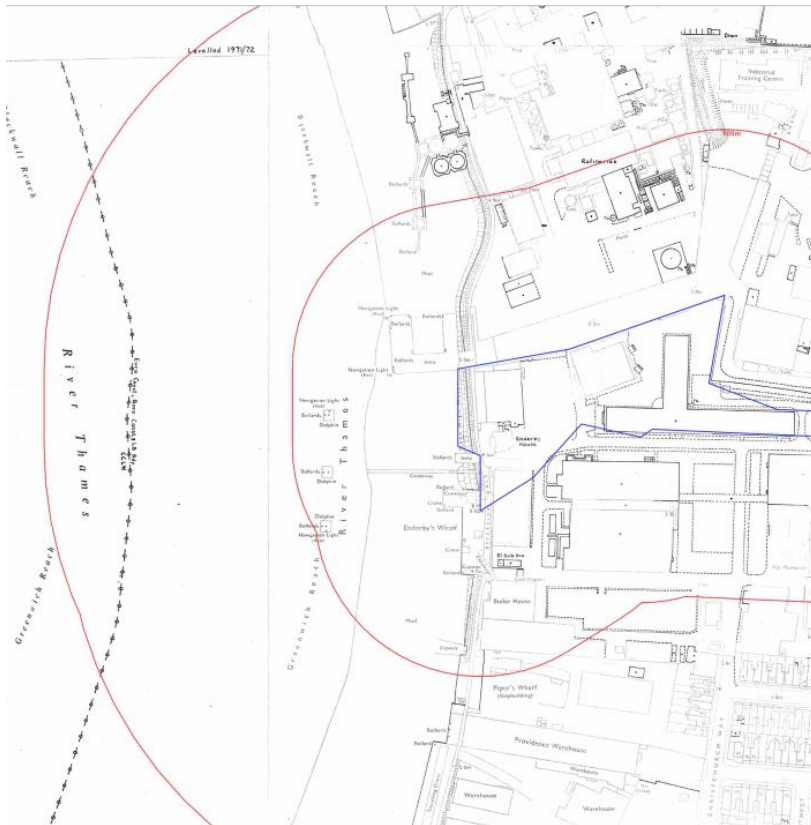


Figure G Historical Map Extract, OS 1:1,250 1990-1991



Figure H Historical Map Extract, OS 1:10,000 2010



Figure I Unexploded bomb risk map for London

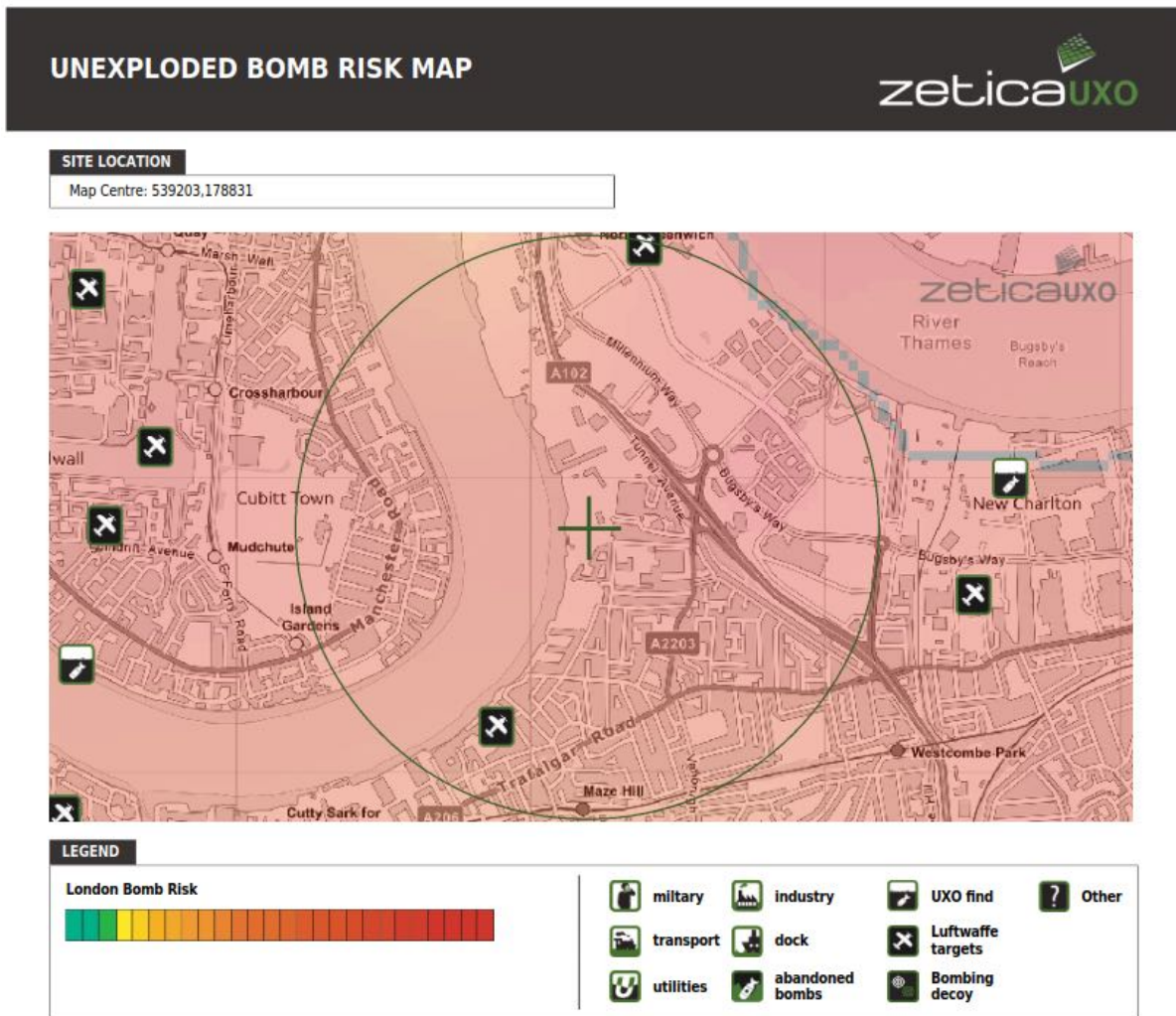
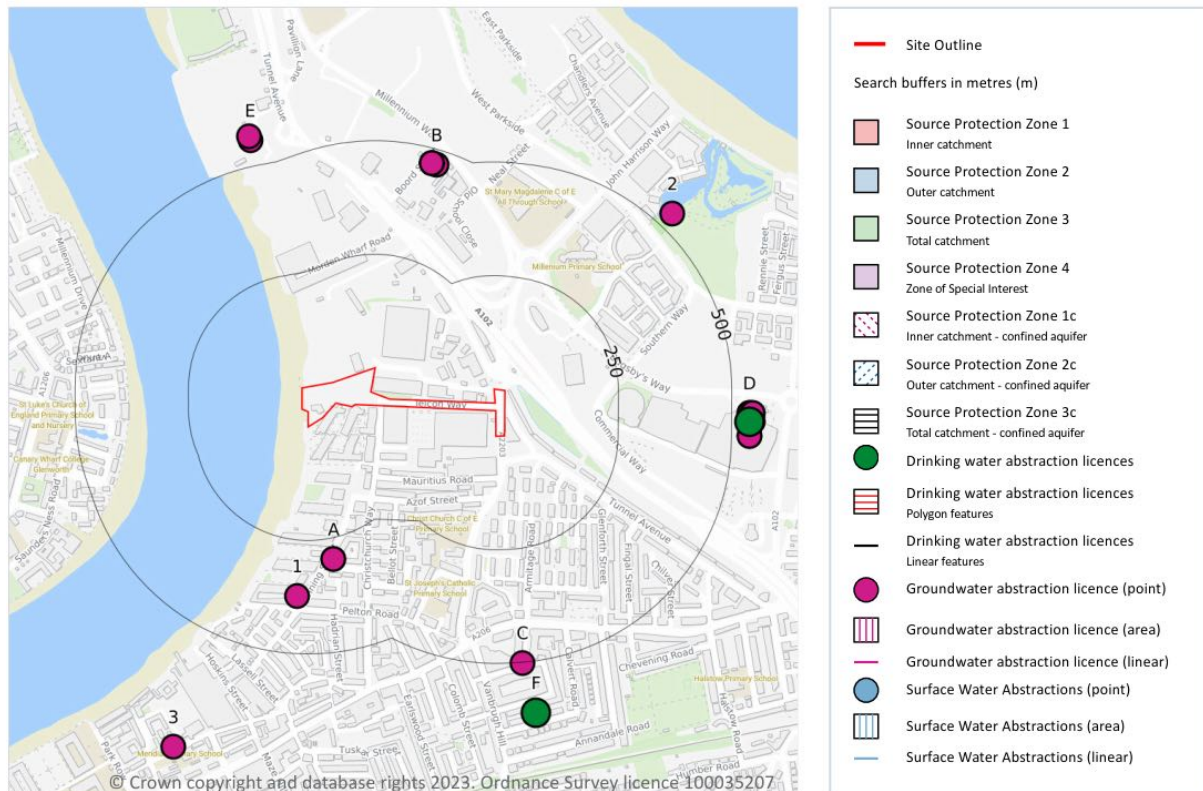


Figure J Superficial Deposits, Geological Map Extract, BGS (Geo-Index Online)



Figure K Groundwater Source Protection Zones



FORMER ALCATEL WORKS, CHRISTHURCH WAY, GREENWICH, SE10 0AG

Order Details

Date: 24/10/2023
Your ref: MES2310CC
Our Ref: GS-2NF-1FL-D5F-PLR

Site Details

Location: 539220 178795
Area: 1.7 ha
Authority: [Royal Borough of Greenwich](#) ↗



[Summary of findings](#)

[p. 2 > Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 > \[groundsure.com/insightuserguide\]\(https://groundsure.com/insightuserguide\) ↗](#)

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 >	54	35	99	340	-
35 >	1.2 >	Historical tanks >	15	16	88	145	-
44 >	1.3 >	Historical energy features >	3	4	16	39	-
47	1.4	Historical petrol stations	0	0	0	0	-
47 >	1.5 >	Historical garages >	1	0	1	3	-
48	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
49 >	2.1 >	Historical industrial land uses >	72	50	146	473	-
76 >	2.2 >	Historical tanks >	23	25	172	287	-
94 >	2.3 >	Historical energy features >	5	11	29	90	-
100	2.4	Historical petrol stations	0	0	0	0	-
100 >	2.5 >	Historical garages >	2	0	1	4	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
101	3.1	Active or recent landfill	0	0	0	0	-
101	3.2	Historical landfill (BGS records)	0	0	0	0	-
102	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
102 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
102 >	3.5 >	Historical waste sites >	0	0	1	0	-
103 >	3.6 >	Licensed waste sites >	0	0	3	2	-
105 >	3.7 >	Waste exemptions >	2	3	28	32	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	4.1 >	Recent industrial land uses >	0	8	28	-	-
114 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
114	4.3	Electricity cables	0	0	0	0	-
114	4.4	Gas pipelines	0	0	0	0	-
114	4.5	Sites determined as Contaminated Land	0	0	0	0	-



115 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	3	-
115	4.7	Regulated explosive sites	0	0	0	0	-
115 >	4.8 >	Hazardous substance storage/usage >	0	0	1	1	-
116 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	7	0	-
117 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	24	0	-
122 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	4	-
122 >	4.12 >	Radioactive Substance Authorisations >	0	0	5	0	-
123 >	4.13 >	Licensed Discharges to controlled waters >	0	0	1	9	-
125	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
125 >	4.15 >	Pollutant release to public sewer >	0	0	1	2	-
126	4.16	List 1 Dangerous Substances	0	0	0	0	-
126 >	4.17 >	List 2 Dangerous Substances >	0	0	0	2	-
126 >	4.18 >	Pollution Incidents (EA/NRW) >	1	0	0	13	-
128	4.19	Pollution inventory substances	0	0	0	0	-
128 >	4.20 >	Pollution inventory waste transfers >	0	0	1	0	-
130	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
131 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
133 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
135 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
136 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
136 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
137 >	5.6 >	Groundwater abstractions >	0	0	0	8	76
156	5.7	Surface water abstractions	0	0	0	0	0
157 >	5.8 >	Potable abstractions >	0	0	0	0	6
158	5.9	Source Protection Zones	0	0	0	0	-
159	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
160 >	6.1 >	Water Network (OS MasterMap) >	0	2	1	-	-



161 >	6.2 >	Surface water features >	0	2	0	-	-
161 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
162 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
162 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
163 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
164 >	7.2 >	Historical Flood Events >	0	0	1	-	-
164 >	7.3 >	Flood Defences >	3	2	10	-	-
165 >	7.4 >	Areas Benefiting from Flood Defences >	1	0	0	-	-
165	7.5	Flood Storage Areas	0	0	0	-	-
166 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
167 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
168 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
170 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
171	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
172	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
172	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
172	10.4	Special Protection Areas (SPA)	0	0	0	0	0
172	10.5	National Nature Reserves (NNR)	0	0	0	0	0
173 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
173	10.7	Designated Ancient Woodland	0	0	0	0	0
173	10.8	Biosphere Reserves	0	0	0	0	0
173	10.9	Forest Parks	0	0	0	0	0
174	10.10	Marine Conservation Zones	0	0	0	0	0
174	10.11	Green Belt	0	0	0	0	0
174	10.12	Proposed Ramsar sites	0	0	0	0	0



174	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
174	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
175	10.15	Nitrate Sensitive Areas	0	0	0	0	0
175	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
176 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
177	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
178	11.1	World Heritage Sites	0	0	0	-	-
179	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
179	11.3	National Parks	0	0	0	-	-
179 >	11.4 >	Listed Buildings >	1	0	1	-	-
180	11.5	Conservation Areas	0	0	0	-	-
180	11.6	Scheduled Ancient Monuments	0	0	0	-	-
180	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
181 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
182	12.2	Open Access Land	0	0	0	-	-
182	12.3	Tree Felling Licences	0	0	0	-	-
182	12.4	Environmental Stewardship Schemes	0	0	0	-	-
182	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
183 >	13.1 >	Priority Habitat Inventory >	1	2	0	-	-
184 >	13.2 >	Habitat Networks >	2	0	0	-	-
184 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
184	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
186 >	14.1 >	10k Availability >	Identified (within 500m)				
187 >	14.2 >	Artificial and made ground (10k) >	0	0	1	2	-
188 >	14.3 >	Superficial geology (10k) >	1	0	0	2	-



189	14.4	Landslip (10k)	0	0	0	0	-
190 >	14.5 >	Bedrock geology (10k) >	1	0	1	5	-
191 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
192 >	15.1 >	50k Availability >	Identified (within 500m)				
193 >	15.2 >	Artificial and made ground (50k) >	1	0	2	0	-
194 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
195 >	15.4 >	Superficial geology (50k) >	1	0	1	2	-
196 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
196	15.6	Landslip (50k)	0	0	0	0	-
196	15.7	Landslip permeability (50k)	None (within 50m)				
197 >	15.8 >	Bedrock geology (50k) >	1	0	3	3	-
198 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
198 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	2	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
199 >	16.1 >	BGS Boreholes >	1	10	98	-	-
Page	Section	Natural ground subsidence >					
205 >	17.1 >	Shrink swell clays >	Low (within 50m)				
206 >	17.2 >	Running sands >	Low (within 50m)				
208 >	17.3 >	Compressible deposits >	High (within 50m)				
210 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
211 >	17.5 >	Landslides >	Low (within 50m)				
213 >	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
215 >	18.1 >	BritPits >	0	0	0	1	-
216 >	18.2 >	Surface ground workings >	14	13	53	-	-
219 >	18.3 >	Underground workings >	0	0	0	1	26
220	18.4	Underground mining extents	0	0	0	0	-
220	18.5	Historical Mineral Planning Areas	0	0	0	0	-

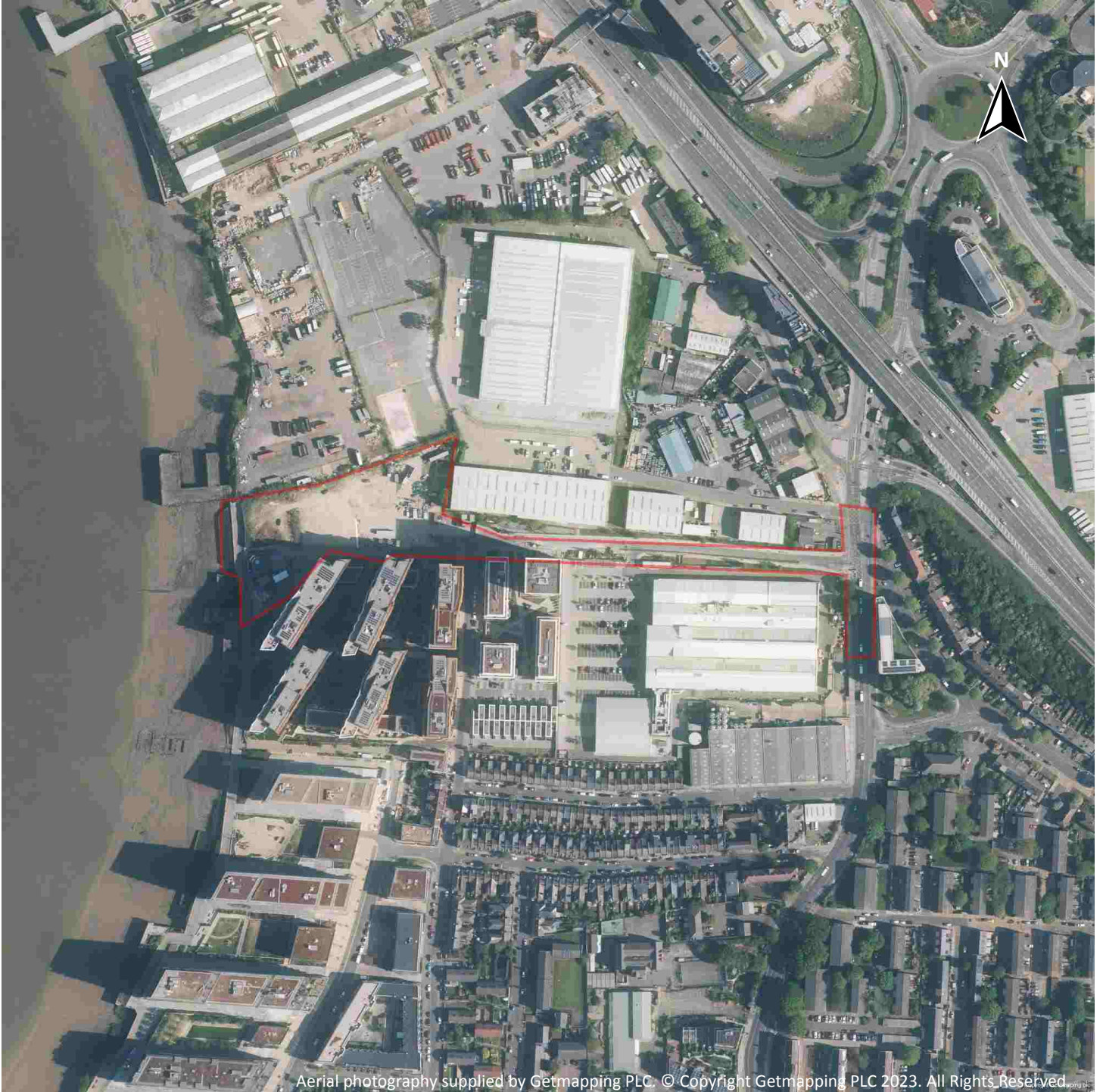


221 >	18.6 >	Non-coal mining >	0	0	1	1	18
223	18.7	JPB mining areas	None (within 0m)				
223	18.8	The Coal Authority non-coal mining	0	0	0	0	-
223 >	18.9 >	Researched mining >	0	0	1	0	-
224	18.10	Mining record office plans	0	0	0	0	-
224	18.11	BGS mine plans	0	0	0	0	-
224	18.12	Coal mining	None (within 0m)				
224	18.13	Brine areas	None (within 0m)				
225	18.14	Gypsum areas	None (within 0m)				
225	18.15	Tin mining	None (within 0m)				
225	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
226	19.1	Natural cavities	0	0	0	0	-
226	19.2	Mining cavities	0	0	0	0	0
226	19.3	Reported recent incidents	0	0	0	0	-
226	19.4	Historical incidents	0	0	0	0	-
227	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
228 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
230 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	0	-	-	-
230 >	21.2 >	BGS Estimated Urban Soil Chemistry >	9	10	-	-	-
231 >	21.3 >	BGS Measured Urban Soil Chemistry >	0	1	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
232	22.1	Underground railways (London)	0	0	0	-	-
232	22.2	Underground railways (Non-London)	0	0	0	-	-
233	22.3	Railway tunnels	0	0	0	-	-
233 >	22.4 >	Historical railway and tunnel features >	8	16	27	-	-
235	22.5	Royal Mail tunnels	0	0	0	-	-



235	22.6	Historical railways	0	0	0	-	-
235	22.7	Railways	0	0	0	-	-
236	22.8	Crossrail 1	0	0	0	0	-
236	22.9	Crossrail 2	0	0	0	0	-
236	22.10	HS2	0	0	0	0	-

Recent aerial photograph

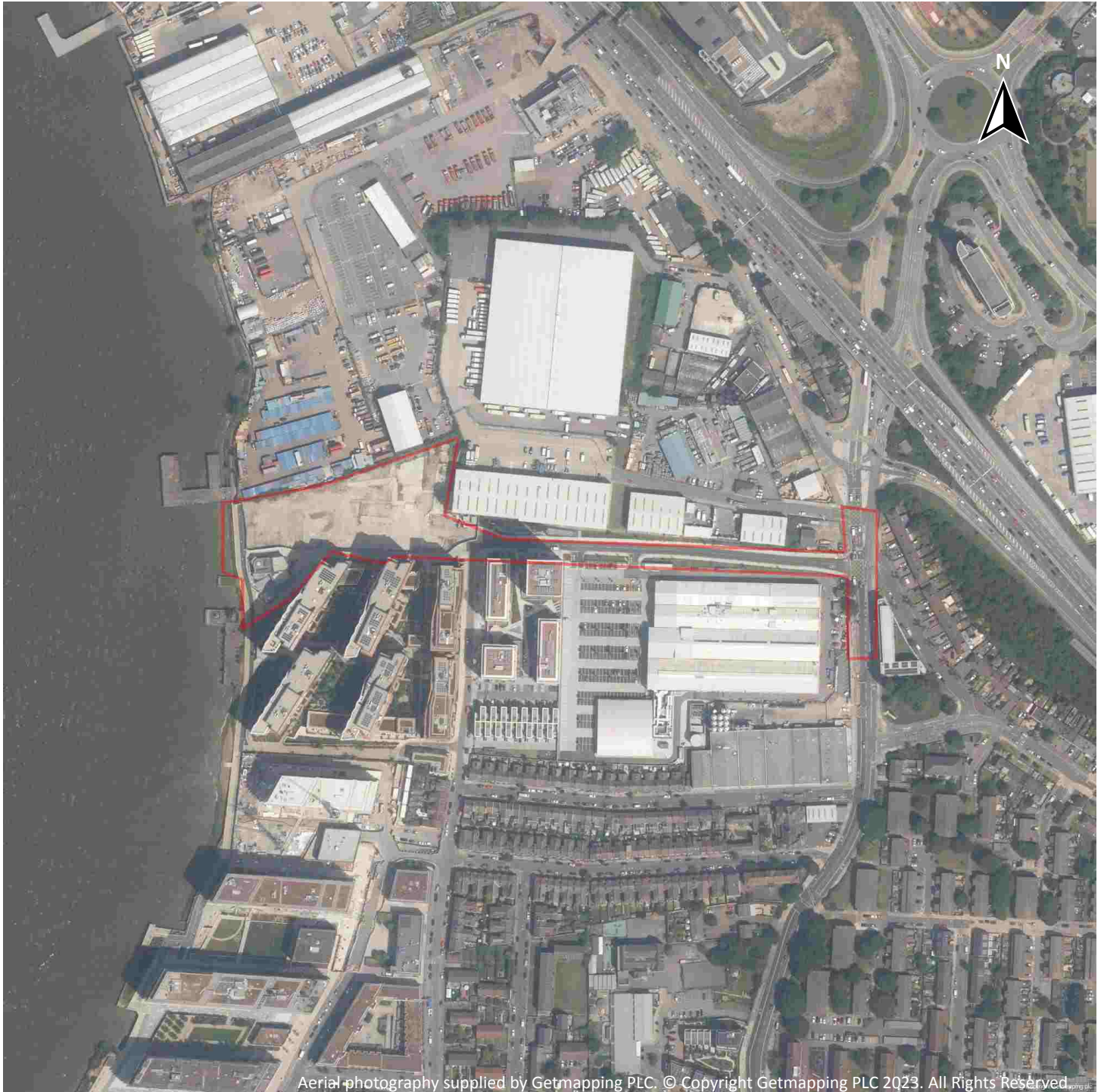


Capture Date: 30/04/2022

Site Area: 1.7ha



Recent site history - 2019 aerial photograph



Capture Date: 29/06/2019

Site Area: 1.7ha



Recent site history - 2013 aerial photograph

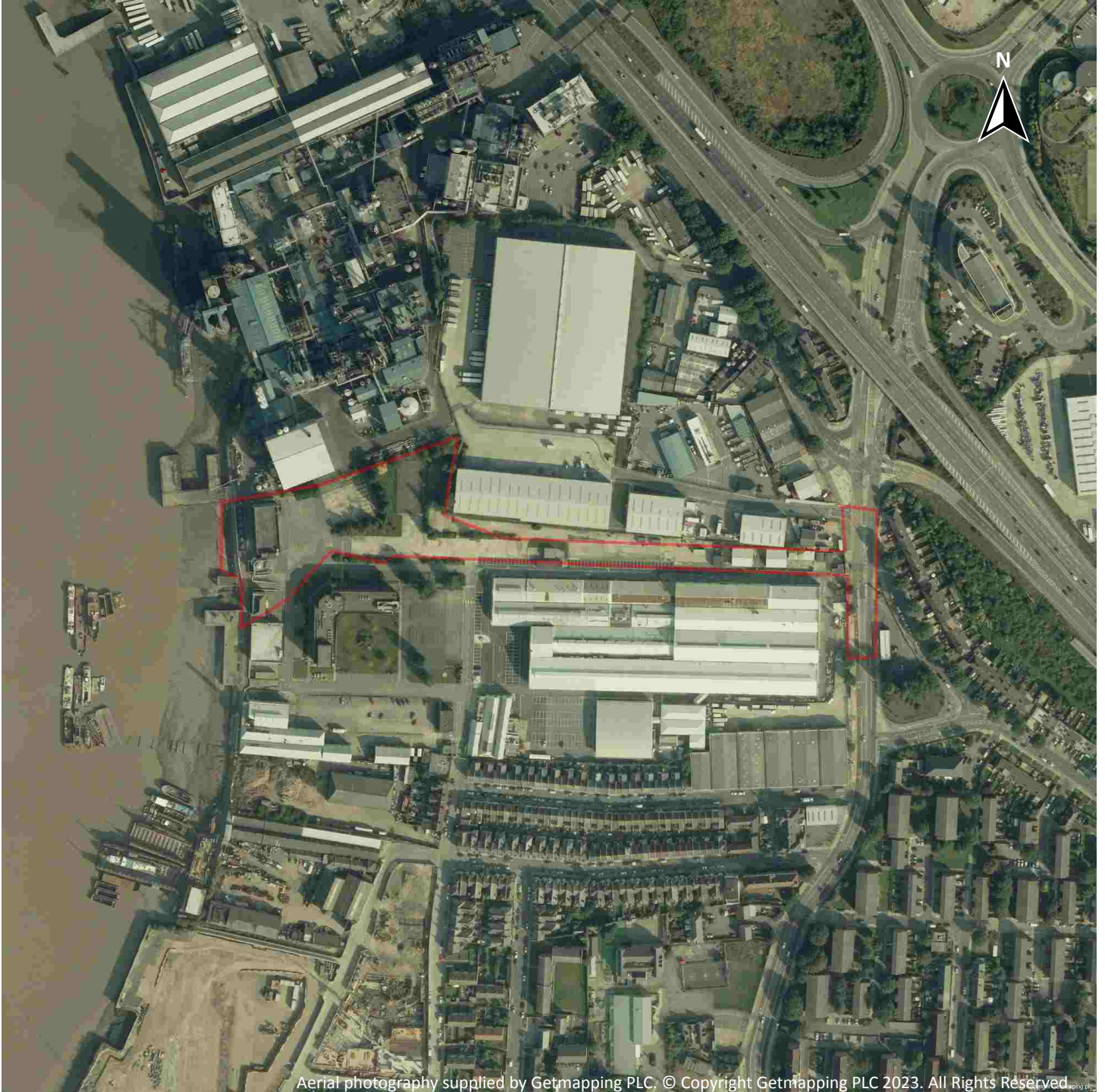


Capture Date: 20/04/2013

Site Area: 1.7ha



Recent site history - 2008 aerial photograph

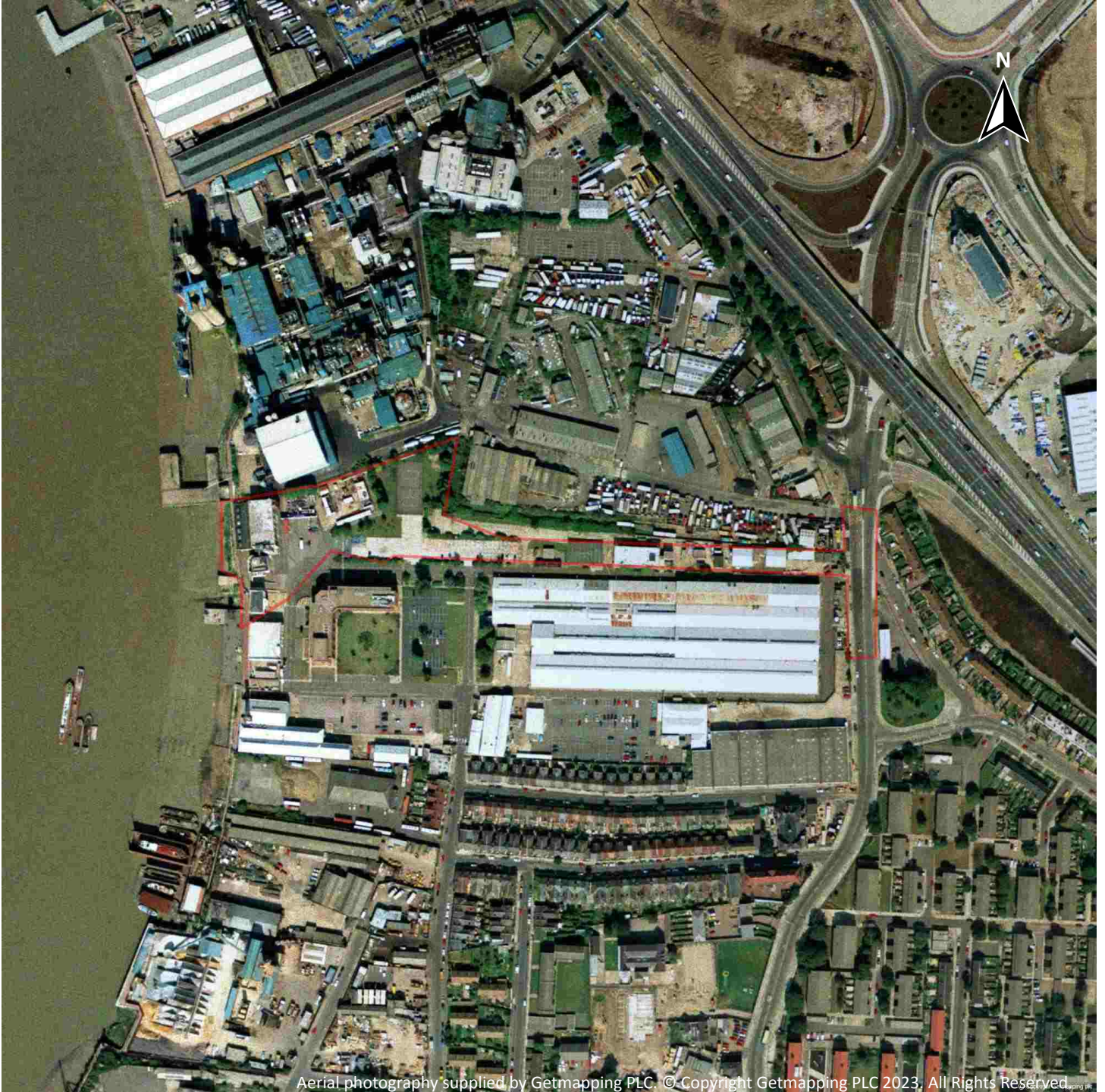


Capture Date: 21/09/2008

Site Area: 1.7ha



Recent site history - 1999 aerial photograph

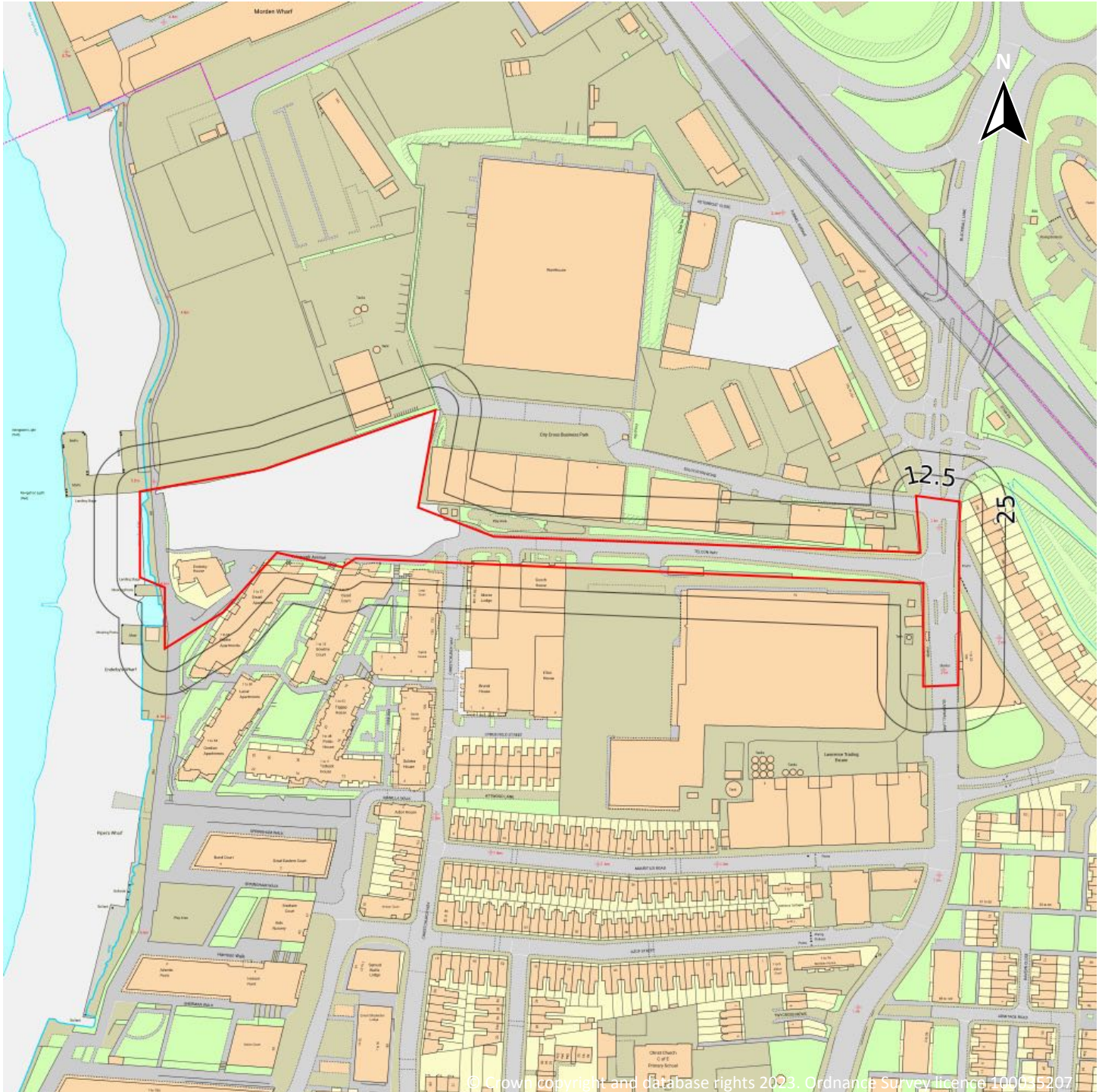


Capture Date: 04/09/1999

Site Area: 1.7ha



OS MasterMap site plan

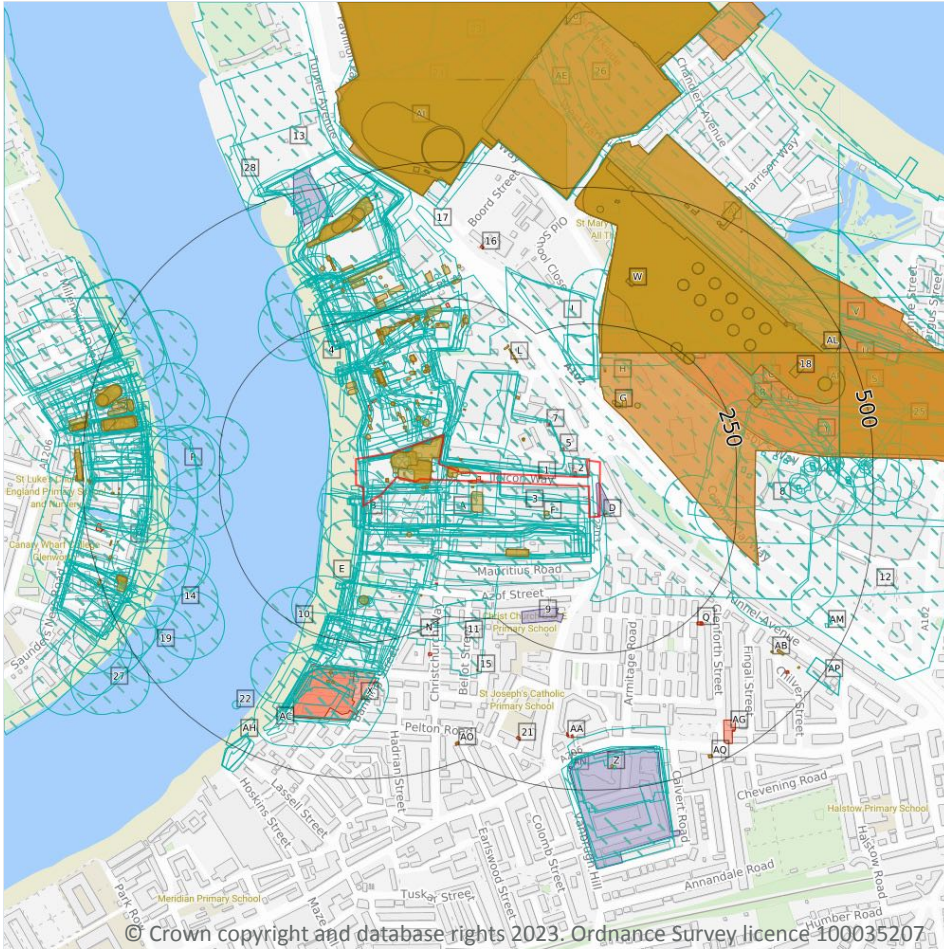


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Site Area: 1.7ha



1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m **528**

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
A	On site	Submarine Cable Works	1914	2138020



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tanks	1914	2144046
A	On site	Unspecified Tanks	1914	2144047
A	On site	Unspecified Tank	1955	2155231
A	On site	Unspecified Tank	1955	2155232
A	On site	Unspecified Tank	1914	2155233
A	On site	Unspecified Tank	1955	2155234
A	On site	Old Concrete Works	1898	2164625
A	On site	Unspecified Industrial/Commercial	1894	2164925
A	On site	Concrete Works	1882	2167774
A	On site	Telegraph Works	1894	2169191
A	On site	Railway Sidings	1894	2170131
A	On site	Soap and Candle Works	1894	2177747
A	On site	Unspecified Wharves	1894	2181004
A	On site	Unspecified Wharf	1899	2187131
A	On site	Cable Works	1967 - 1979	2187601
A	On site	Unspecified Tanks	1894	2188491
A	On site	Railway Sidings	1894	2190392
A	On site	Unspecified Commercial/Industrial	1899	2202757
A	On site	Unspecified Tanks	1894	2205304
A	On site	Unspecified Tanks	1914	2207970
A	On site	Railway Sidings	1894	2218482
A	On site	Soap and Candle Works	1938	2218714
A	On site	Railway Sidings	1948	2222174
A	On site	Unspecified Wharf	1938	2224095
A	On site	Unspecified Tanks	1967 - 1973	2225961
A	On site	Unspecified Works	1989 - 1994	2226601
A	On site	Soap and Candle Works	1894	2234150
A	On site	Telegraph Works	1899	2237459



ID	Location	Land use	Dates present	Group ID
A	On site	Telegraph Works	1894	2238248
A	On site	Soap and Candle Works	1899	2239313
A	On site	Telegraph Works	1898	2245293
A	On site	Unspecified Depot	1967	2245989
A	On site	Telegraph Works	1882 - 1894	2251862
A	On site	Railway Sidings	1899	2255065
A	On site	Unspecified Wharf	1914	2256399
A	On site	Unspecified Depot	1955	2259028
A	On site	Unspecified Tanks	1894	2265444
A	On site	Unspecified Tanks	1899	2265584
A	On site	Railway Sidings	1899	2273751
A	On site	Unspecified Tanks	1899	2276928
A	On site	Soap and Candle Works	1914	2283649
A	On site	Unspecified Tanks	1894	2286435
A	On site	Railway Sidings	1914	2287026
A	On site	Railway Sidings	1894	2288435
A	On site	Railway Sidings	1938	2290606
A	On site	Railway Sidings	1894	2293406
B	On site	Wharf	1898	2160582
B	On site	Unspecified Wharf	1948	2214685
B	On site	Unspecified Wharf	1894	2221228
B	On site	Unspecified Wharf	1882	2226314
B	On site	Unspecified Wharf	1894	2238343
B	On site	Unspecified Wharf	1955 - 1979	2248283
C	On site	Marshes	1898	2168782
A	1m NW	Unspecified Ground Workings	1914	2270435
A	1m NW	Railway Sidings	1898 - 1899	2220867
B	3m W	Bottling Stores	1989	2141466



ID	Location	Land use	Dates present	Group ID
B	3m W	Unspecified Wharf	1994	2183480
A	4m N	Unspecified Depot	1973 - 1979	2247267
A	4m NW	Railway Sidings	1894	2213237
A	9m E	Unspecified Commercial/Industrial	1899 - 1994	2286426
A	9m NW	Railway Sidings	1894	2180778
A	10m N	Soap and Candle Works	1948	2199997
A	10m SW	Unspecified Foundry	1882	2140135
E	12m W	Unspecified Wharves	1894	2278446
A	12m N	Unspecified Depot	1989 - 1994	2276816
B	14m W	Boat Building Yard	1894	2137966
3	17m E	Rope Walk	1882	2128374
A	17m W	Unspecified Commercial/Industrial	1973 - 1979	2189055
A	18m W	Unspecified Commercial/Industrial	1989 - 1994	2193907
A	18m SW	Unspecified Tank	1914	2155243
A	19m NW	Unspecified Ground Workings	1938	2220280
A	19m N	Unspecified Ground Workings	1938	2212413
4	19m W	Unspecified Wharf	1989	2290777
A	21m NW	Railway Sidings	1948	2272342
A	23m SE	Unspecified Tanks	1914	2144048
A	26m SE	Railway Sidings	1894	2280889
B	28m SW	Unspecified Wharf	1994	2195573
A	30m SE	Engineering Works	1967 - 1979	2200900
A	30m NW	Railway Sidings	1914	2173662
A	30m NW	Railway Sidings	1938	2273451
A	33m NW	Unspecified Tank	1899	2248764
A	33m NW	Unspecified Tank	1894	2155228
A	36m NW	Unspecified Tank	1914	2184055
A	36m NW	Unspecified Tank	1894	2282621



ID	Location	Land use	Dates present	Group ID
A	38m SW	Foundry	1898	2140969
B	38m SW	Unspecified Wharf	1955 - 1973	2261010
A	42m NW	Unspecified Tank	1894	2209057
E	43m SW	Unspecified Wharf	1938	2181200
E	51m SW	Brick Field	1882	2256314
F	53m SE	Unspecified Tank	1914	2155242
A	56m NE	Railway Sidings	1967	2128691
A	64m N	Chimney	1955	2165116
A	76m NW	Railway Sidings	1898	2265281
E	83m SW	Boat Building Yard	1894	2226733
E	87m SW	Brick Field	1898	2236751
E	87m SW	Unspecified Wharf	1914	2267148
E	88m SW	Boat Building Yard	1899	2177397
A	97m NW	Soap Works	1898	2262228
A	100m NW	Unspecified Works	1967	2159883
A	101m N	Soap and Candle Works	1894	2266481
E	104m SW	Boat Building Yard	1894	2192747
A	107m SE	Unspecified Tanks	1967 - 1994	2244634
A	112m N	Soap Works	1882	2289669
E	115m SW	Unspecified Wharves	1973	2205108
E	115m SW	Unspecified Wharf	1948 - 1967	2257214
E	118m SW	Unspecified Warehouse	1967 - 1979	2211143
8	119m E	Ammunition Works	1894	2194478
A	119m NW	Unspecified Tanks	1967	2144042
A	119m N	Unspecified Tank	1994	2276462
A	121m N	Unspecified Tank	1967 - 1989	2213968
A	127m NW	Railway Sidings	1955	2171406
H	130m NE	Laundry	1955 - 1967	2291319



ID	Location	Land use	Dates present	Group ID
A	135m NW	Railway Sidings	1882	2242955
E	137m SW	Unspecified Wharf	1989	2204156
E	141m SW	Unspecified Wharf	1979	2180583
E	142m SW	Unspecified Wharves	1894	2213284
E	142m SW	Unspecified Depot	1967 - 1973	2260783
E	143m SW	Unspecified Wharf	1882	2191135
E	146m SW	Unspecified Commercial/Industrial	1899	2198631
H	148m NE	Paint Works	1914	2172285
H	148m NE	Paint Works	1938	2236165
H	151m NE	Paint Works	1948	2187226
A	153m NW	Unspecified Tanks	1967 - 1979	2223575
A	154m NW	Unspecified Wharf	1979	2180507
A	154m NW	Unspecified Tanks	1989	2252080
A	154m NW	Unspecified Wharf	1994	2284037
I	154m NE	Unspecified Depot	1989 - 1994	2257463
A	155m NW	Railway Sidings	1894	2180777
A	157m NW	Unspecified Wharf	1914	2193069
A	157m NW	Unspecified Wharf	1938	2261381
J	162m E	Unspecified Works	1894	2159882
A	162m N	Railway Sidings	1955	2219989
E	164m SW	Unspecified Tank	1894	2269861
E	165m SW	Unspecified Tank	1894	2257316
E	166m SW	Unspecified Tank	1938	2188751
E	166m SW	Unspecified Tank	1899 - 1914	2265962
E	167m SW	Unspecified Tank	1894	2201217
E	168m SW	Unspecified Tank	1948	2283416
E	169m SW	Unspecified Tank	1894	2247957
E	170m SW	Unspecified Pit	1882	2125461



ID	Location	Land use	Dates present	Group ID
K	174m NE	Ammunition Works	1894	2208168
J	175m E	Ammunition Works	1894	2261557
I	175m NE	Unspecified Works	1967	2159880
10	183m SW	Unspecified Wharves	1894	2213763
A	195m NW	Cement Works	1882	2248231
A	196m N	Unspecified Tanks	1994	2144049
M	198m W	Unspecified Wharf	1882 - 1894	2226958
E	201m SW	Unspecified Wharf	1938	2270255
E	201m SW	Unspecified Wharf	1914	2287019
E	203m SW	Railway Sidings	1894	2224662
A	205m NW	Unspecified Wharf	1899	2288070
A	207m NW	Unspecified Wharf	1894	2242129
E	207m SW	Unspecified Ground Workings	1898	2133809
E	208m SW	Unspecified Wharf	1948 - 1989	2198775
E	209m SW	Unspecified Wharves	1894	2273304
A	209m NW	Unspecified Wharf	1967	2196252
A	209m NW	Unspecified Wharf	1955	2249266
A	209m NW	Unspecified Wharf	1973	2235450
E	210m SW	Railway Sidings	1894	2192974
E	210m SW	Railway Sidings	1894	2276346
E	210m SW	Unspecified Wharf	1989	2219312
A	211m N	Unspecified Tank	1914	2155154
E	212m SW	Wharf	1898	2160580
E	213m SW	Unspecified Wharves	1899	2214611
E	214m SW	Railway Sidings	1899 - 1914	2267814
E	215m SW	Railway Sidings	1938	2212283
A	215m NW	Portland Cement Works	1898	2142879
11	218m S	Oil Works	1882	2164648



ID	Location	Land use	Dates present	Group ID
E	223m SW	Railway Sidings	1948	2238950
C	226m NE	Gas Works	1989	2135558
12	234m E	Ammunition Works	1898	2271858
K	235m NE	Ammunition Works	1894	2202207
N	237m S	Oil Works	1898	2164649
A	237m NW	Unspecified Works	1994	2230181
A	239m NW	Unspecified Wharf	1979	2203969
K	241m NE	Ammunition Works	1894	2263729
A	242m NW	Unspecified Wharf	1948 - 1955	2187969
P	243m W	Unspecified Wharves	1894	2247242
A	244m NW	Telegraph Works	1894	2198640
O	244m NE	Unspecified Tanks	1973 - 1989	2263600
13	244m N	Linoleum Works	1920 - 1938	2223094
K	245m NE	Ammunition Works	1898	2197061
A	246m NW	Telegraph Works	1899	2290099
O	247m NE	Unspecified Tanks	1973 - 1989	2259216
A	247m NW	Electricity Telegraph Works	1898	2151464
A	247m NW	Wharf	1898	2160583
A	250m NW	Unspecified Commercial/Industrial	1920	2273695
A	252m NW	Unspecified Wharf	1894	2193891
A	253m NW	Cement Works	1898	2225093
A	253m NW	Telegraph Works	1894	2196222
A	253m NW	Telegraph Works	1894 - 1896	2260913
P	259m W	Unspecified Wharves	1894	2209116
J	259m E	Abandoned Airfield	1898	2193504
E	263m SW	Lime and Cement Works	1894	2152332
A	266m N	Unspecified Works	1989	2175157
A	267m NW	Unspecified Wharf	1938	2279394



ID	Location	Land use	Dates present	Group ID
E	267m SW	Unspecified Wharf	1994	2291355
J	269m E	Abandoned Airfield	1898	2217763
E	270m SW	Unspecified Wharves	1894	2291567
K	273m NE	Unspecified Tank	1894	2155120
A	281m N	Chimney	1920	2165115
E	284m SW	Unspecified Wharf	1882	2244364
A	286m N	Chimney	1948	2165107
A	288m N	Chimney	1938	2165114
M	290m W	Unspecified Wharf	1979	2175349
M	290m W	Unspecified Wharf	1989	2253400
A	295m NW	Railway Sidings	1898	2128692
M	295m W	Unspecified Wharf	1979	2208600
J	296m E	Magazines	1898	2224793
M	296m W	Unspecified Wharf	1899 - 1973	2254177
E	296m SW	Unspecified Wharf	1994	2228318
A	297m NW	Unspecified Wharf	1973	2189412
E	297m SW	Unspecified Wharf	1955 - 1979	2188169
K	299m NE	Unspecified Tank	1894	2155121
R	299m E	Unspecified Tank	1973 - 1979	2199170
E	299m SW	Lime, Cement and Slate Works	1894	2190928
E	302m SW	Lime, Cement and Slate Works	1894	2232415
J	303m E	Magazines	1898	2203532
E	303m SW	Unspecified Wharf	1914	2252092
E	303m SW	Unspecified Wharf	1938	2266903
M	304m W	Unspecified Wharf	1899 - 1967	2187894
C	304m NE	Railway Sidings	1955	2224911
A	306m N	Chimney	1938	2165113
E	307m SW	Railway Sidings	1914	2225446



ID	Location	Land use	Dates present	Group ID
E	307m SW	Railway Sidings	1938	2274741
A	307m NW	Chimney	1920 - 1948	2268486
T	308m NE	Railway Sidings	1962	2168796
T	308m NE	Railway Sidings	1967	2168797
E	308m SW	Lime, Cement and Slate Works	1899	2193771
E	308m SW	Unspecified Tank	1898	2155236
J	309m E	Magazines	1898	2222936
E	309m SW	Railway Sidings	1948	2228818
14	310m SW	Dry Dock	1894	2141063
A	310m NW	Boiler Works	1894	2240393
A	311m NW	Boiler Works	1896	2195891
C	311m NE	Unspecified Commercial/Industrial	1973	2191974
C	311m NE	Unspecified Commercial/Industrial	1979	2276682
U	312m E	Marshes	1894	2168737
E	312m SW	Unspecified Tank	1914	2155235
A	313m NW	Boiler Works	1894	2243646
V	316m E	Marshes	1898	2266748
C	317m NE	Refuse Heap	1955 - 1967	2247318
J	317m E	Magazines	1898	2278668
A	318m NW	Iron Boat Building Yard	1898	2138032
A	319m NW	Boiler Works	1899	2209097
A	321m NW	Unspecified Tank	1898	2155151
A	321m NW	Unspecified Works	1967 - 1979	2229000
A	324m NW	Unspecified Commercial/Industrial	1948 - 1955	2214966
E	324m SW	Unspecified Wharf	1948	2187370
A	326m NW	Unspecified Wharf	1920	2246078
J	327m E	Magazines	1894	2216510
M	328m W	Unspecified Wharf	1994	2231958



ID	Location	Land use	Dates present	Group ID
A	329m NW	Railway Sidings	1896	2264526
A	329m NW	Railway Sidings	1898	2171111
E	330m SW	Unspecified Tank	1914	2155204
A	331m NW	Railway Sidings	1899	2227625
A	333m NW	Railway Sidings	1894	2293817
A	335m NW	Railway Sidings	1894	2194914
M	335m W	Unspecified Wharf	1979	2249791
J	336m E	Magazines	1898	2229369
J	336m E	Magazines	1898	2231597
C	337m NE	Unspecified Tank	1973 - 1989	2223157
J	338m E	Unspecified Heap	1894	2178086
E	339m SW	Wharf	1898	2160581
M	341m W	Dock	1894	2271994
C	342m NE	Unspecified Tank	1973 - 1989	2215346
C	344m NE	Unspecified Tank	1973 - 1979	2242740
M	345m W	Unspecified Wharf	1989	2188888
C	346m NE	Unspecified Tank	1973 - 1989	2217896
J	347m E	Unspecified Heap	1898	2213221
J	347m E	Unspecified Heap	1894	2284892
C	350m NE	Unspecified Tank	1973 - 1989	2254258
17	353m N	Tunnel	1967	2151553
J	361m E	Magazines	1898	2190088
J	361m E	Magazines	1898	2267368
J	362m E	Magazines	1894	2243583
M	364m W	Dry Dock	1894	2293114
M	369m W	Unspecified Wharf	1948	2290053
M	371m W	Ship Building Yard	1882	2202205
M	371m W	Rice Mill	1882	2217506



ID	Location	Land use	Dates present	Group ID
M	372m W	Ship Repairing Works	1882	2262028
M	372m W	Rice Mill	1867	2249058
M	373m W	Ship Repairing Works	1867	2217462
M	373m W	Unspecified Wharf	1867	2289923
J	373m E	Unspecified Heap	1898	2182376
M	374m W	Unspecified Wharves	1899	2207604
M	374m W	Unspecified Wharf	1899 - 1967	2260066
J	375m E	Unspecified Heap	1894	2186299
M	376m W	Unspecified Wharf	1867	2195268
M	378m W	Rice Mill	1898	2186027
M	378m W	Unspecified Wharfs	1914	2173143
M	378m W	Unspecified Commercial/Industrial	1914	2182590
M	378m W	Unspecified Wharfs	1938	2197217
M	378m W	Unspecified Commercial/Industrial	1938	2289699
M	379m W	Wharf	1898	2160584
M	379m W	Unspecified Wharf	1882	2226369
C	379m NE	Unspecified Tank	1973 - 1989	2267126
M	380m W	Railway Sidings	1938	2174209
M	380m W	Railway Sidings	1914	2236705
M	380m W	Ship Building Yard	1898	2179301
M	380m W	Ship Building Yard	1867	2209320
C	380m NE	Unspecified Tank	1973 - 1989	2276302
M	381m W	Wharf	1898	2160585
M	381m SW	Unspecified Wharf	1979	2288854
M	382m W	Unspecified Wharf	1894	2179715
M	382m W	Unspecified Wharves	1894	2273977
M	383m W	Unspecified Wharf	1973	2170043
M	383m W	Unspecified Wharf	1955	2289536



ID	Location	Land use	Dates present	Group ID
C	384m NE	Unspecified Tank	1973 - 1989	2274617
M	384m W	Unspecified Wharf	1967	2218287
19	384m SW	Dock	1894	2146535
C	384m NE	Unspecified Tank	1973 - 1989	2170037
M	384m W	Unspecified Wharf	1979	2240228
J	385m E	Magazines	1898	2189119
J	385m E	Magazines	1898	2272763
M	385m W	Unspecified Wharf	1948	2272578
J	386m E	Magazines	1894	2284917
M	387m W	Railway Sidings	1899 - 1914	2228332
M	387m W	Railway Sidings	1938	2283097
M	387m W	Unspecified Commercial/Industrial	1948	2234240
M	387m W	Unspecified Wharf	1948	2251960
J	388m E	Magazines	1894	2232310
M	388m W	Unspecified Wharf	1973	2174389
M	388m W	Unspecified Wharf	1955	2273630
M	389m W	Dock	1894	2266486
Y	390m E	Unspecified Heap	1894	2177558
Z	390m SE	Unspecified Workhouse	1882	2208531
M	392m W	Dry Dock	1899	2191862
M	393m W	Unspecified Commercial/Industrial	1955 - 1967	2216169
M	393m W	Unspecified Wharf	1955	2258398
M	393m W	Unspecified Wharf	1948	2207727
M	393m W	Unspecified Commercial/Industrial	1967	2198458
M	393m W	Unspecified Wharf	1948	2283681
C	394m NE	Unspecified Tank	1973 - 1989	2233732
J	395m E	Magazines	1894	2172078
A	395m NW	Unspecified Tank	1989	2155150



ID	Location	Land use	Dates present	Group ID
M	396m W	Unspecified Wharf	1894	2281583
M	396m W	Ship Building Yard	1867	2245723
M	396m W	Unspecified Tanks	1938	2245159
M	396m W	Unspecified Tanks	1914	2284423
M	397m W	Unspecified Wharf	1994	2236689
A	398m NW	Unspecified Tanks	1967 - 1979	2269023
A	399m NW	Unspecified Tanks	1989	2215420
A	400m NW	Unspecified Tanks	1920 - 1938	2267214
Y	400m E	Unspecified Heap	1898	2243564
M	401m W	Railway Sidings	1955	2223124
M	401m W	Ship Building Yard	1898	2254948
Y	401m E	Unspecified Heap	1894	2207157
A	403m NW	Unspecified Tanks	1955	2255869
A	403m NW	Unspecified Tanks	1948	2197566
M	404m W	Dry Dock	1894	2234626
M	405m W	Unspecified Tanks	1967	2238296
M	405m W	Ship Building Yard	1882	2255702
M	407m W	Unspecified Tanks	1948	2292606
AC	407m SW	Unspecified Wharves	1967	2245468
M	408m W	Unspecified Wharf	1894	2253143
A	409m NW	Unspecified Wharf	1955	2235388
AD	411m N	Unspecified Commercial/Industrial	1955	2258348
A	413m NW	Unspecified Tank	1989	2286102
M	413m W	Unspecified Tank	1955	2155229
A	414m NW	Unspecified Tank	1967 - 1979	2262038
A	415m N	Unspecified Tank	1967 - 1994	2214089
J	416m E	Unspecified Heap	1894	2287241
M	416m W	Railway Sidings	1894	2263128



ID	Location	Land use	Dates present	Group ID
C	416m NE	Cuttings	1948	2129770
J	416m E	Magazines	1894	2174505
M	417m W	Unspecified Tanks	1967	2264185
M	417m W	Unspecified Tank	1955	2155227
M	418m W	Unspecified Wharf	1867	2254725
AC	418m SW	Wharf	1898	2160579
M	419m W	Railway Sidings	1894	2203734
AE	419m N	Unspecified Commercial/Industrial	1920 - 1938	2226545
J	422m E	Unspecified Heap	1898	2238076
20	422m NE	Railway Sidings	1920 - 1938	2219221
Z	422m SE	Hospital	1955 - 1994	2256015
A	423m N	Unspecified Tank	1989 - 1994	2275361
J	424m E	Unspecified Heap	1894	2191817
A	424m N	Unspecified Tank	1967 - 1973	2240288
Z	424m SE	Unspecified Workhouse	1894	2271787
22	425m SW	Unspecified Wharf	1882	2157216
Z	426m SE	Unspecified Workhouse	1894	2215199
Z	428m SE	Unspecified Commercial/Industrial	1948	2130980
M	429m W	Unspecified Tank	1955	2155226
AF	429m E	Unspecified Tank	1973 - 1989	2188680
M	430m W	Unspecified Tank	1955	2155230
AD	430m N	Gas Works	1989 - 1994	2262514
M	431m W	Ship Repairing Works	1898	2152582
A	431m N	Unspecified Tank	1989	2273263
A	432m N	Unspecified Tank	1967 - 1979	2280474
M	434m W	Unspecified Tank	1955	2155225
U	436m NE	Railway Sidings	1914	2276298
Z	436m SE	Workhouse	1898	2128985



ID	Location	Land use	Dates present	Group ID
M	438m SW	Unspecified Wharf	1979	2275379
AH	438m SW	Unspecified Wharf	1882	2171423
J	438m E	Unspecified Heap	1962	2189007
M	438m W	Unspecified Dock	1899	2229772
M	439m W	Unspecified Tanks	1938	2184308
M	439m W	Unspecified Tanks	1914	2281596
M	439m W	Unspecified Wharf	1948	2289824
M	441m W	Unspecified Commercial/Industrial	1973	2130979
23	442m NE	Railway Sidings	1938	2256181
M	443m W	Unspecified Tank	1955	2155223
AJ	443m NE	Fuel Research Station	1955 - 1967	2262345
M	444m W	Dry Dock	1894	2195218
M	445m W	Unspecified Tanks	1967	2293860
A	446m N	Unspecified Tanks	1989	2181480
A	446m NW	Unspecified Disused Wharf	1973 - 1979	2231339
M	446m SW	Unspecified Wharf	1894	2278449
M	446m W	Unspecified Tank	1948	2263112
AK	446m NE	Unspecified Tank	1948	2249959
A	447m N	Unspecified Tanks	1967 - 1979	2222008
M	448m W	Unspecified Tank	1955	2199443
AK	448m NE	Unspecified Tank	1938	2239603
A	449m N	Unspecified Tanks	1989	2283182
M	449m W	Unspecified Tank	1955	2155224
J	450m E	Magazines	1894	2288513
M	450m W	Unspecified Wharf	1948	2193659
M	450m W	Unspecified Wharf	1955	2262905
M	450m W	Unspecified Wharf	1973	2283862
J	451m E	Magazines	1898	2273720



ID	Location	Land use	Dates present	Group ID
J	451m E	Magazines	1898	2290742
M	452m W	Dry Dock	1899	2264016
M	452m W	Unspecified Tanks	1967 - 1973	2274715
AD	453m N	Unspecified Works	1894	2159879
J	453m E	Magazines	1894	2228729
M	453m W	Unspecified Wharf	1955	2183026
M	454m W	Unspecified Tank	1899	2232906
AK	454m NE	Unspecified Tank	1955 - 1967	2171919
M	455m W	Unspecified Wharf	1948	2194230
Z	457m SE	Unspecified Tank	1948	2155244
AM	457m E	Magazines	1894	2157596
24	458m N	Gas Works	1894 - 1896	2212561
AM	458m E	Magazines	1898	2284803
M	459m W	Unspecified Tanks	1967 - 1973	2192551
J	459m E	Unspecified Heap	1894	2255867
M	460m W	Unspecified Tank	1955	2155222
M	461m W	Unspecified Tank	1894	2223887
AD	461m N	Unspecified Commercial/Industrial	1948	2204343
AM	461m E	Magazines	1894	2241027
M	462m W	Ship Building Works	1882	2290514
M	462m W	Unspecified Wharf	1899	2273845
M	462m W	Wharf	1898	2160586
AD	462m N	Unspecified Commercial/Industrial	1899	2255635
M	463m W	Dry Dock	1948	2268401
M	464m W	Unspecified Tank	1948	2227020
M	464m W	Unspecified Tank	1955	2155219
M	464m W	Unspecified Tank	1955	2244610
S	464m E	Unspecified Heap	1962	2136820



ID	Location	Land use	Dates present	Group ID
J	465m E	Magazines	1894	2233307
M	465m W	Unspecified Wharf	1894	2248081
M	465m W	Dry Dock	1914	2207681
M	465m W	Unspecified Wharfs	1938	2231365
M	465m W	Unspecified Wharfs	1914	2271898
M	465m W	Dry Dock	1938	2278486
A	467m NW	Unspecified Wharf	1994	2172243
AH	467m SW	Unspecified Wharves	1989 - 1994	2249693
M	467m W	Unspecified Tank	1894	2202467
M	467m W	Unspecified Wharf	1899	2181167
M	467m W	Unspecified Wharf	1899	2281415
AD	469m N	Unspecified Ground Workings	1896	2256605
M	469m W	Unspecified Wharf	1967	2171681
M	469m W	Railway Sidings	1894	2207050
M	470m W	Unspecified Tank	1882	2155221
M	470m W	Unspecified Wharf	1948	2209001
M	471m W	Unspecified Tank	1867	2155220
M	471m W	Unspecified Wharf	1973	2236322
M	471m W	Ship Building Yard	1882	2248708
M	471m W	Ship Building Yard	1867	2270322
M	471m W	Ship Building Works	1867	2242578
M	472m W	Manure Works	1899	2290867
J	472m E	Unspecified Heap	1898	2180325
M	472m SW	Unspecified Wharf	1979	2287651
M	473m W	Ship Building Yard	1898	2292874
AH	473m SW	Unspecified Wharves	1973 - 1979	2176227
AH	473m SW	Unspecified Wharf	1955 - 1967	2239133
AP	473m SE	Unspecified Commercial/Industrial	1973	2130981



ID	Location	Land use	Dates present	Group ID
AP	473m SE	Unspecified Works	1967	2159881
AD	474m N	Unspecified Ground Workings	1899	2213219
J	474m E	Magazines	1898	2204680
J	474m E	Magazines	1898	2256334
J	474m E	Magazines	1894	2288757
J	475m E	Unspecified Heap	1894	2240687
AH	475m SW	Wharf	1898	2160577
M	477m W	Unspecified Tank	1898	2155211
M	477m W	Unspecified Wharf	1894	2183510
J	477m E	Magazines	1894	2187481
25	478m E	Unspecified Ground Workings	1962	2133791
M	479m W	Unspecified Works	1898	2159885
M	480m W	Unspecified Wharf	1967	2239676
M	480m W	Manure Works	1894	2203849
26	481m NE	Gas Works	1973 - 1979	2202340
AD	481m N	Unspecified Tanks	1920	2170445
AD	482m N	Unspecified Tank	1894	2287640
M	482m W	Unspecified Wharf	1894	2225365
AD	483m N	Unspecified Tanks	1896	2216704
AE	483m NE	Unspecified Commercial/Industrial	1948	2255648
AE	484m N	Gas Works	1967	2168916
J	484m E	Magazines	1894	2184332
AD	485m N	Unspecified Tank	1948	2235241
AD	485m N	Gasometer	1894	2188420
AD	485m N	Unspecified Tanks	1938	2202054
AD	485m N	Unspecified Tanks	1899	2197033
M	486m NW	Unspecified Wharf	1914	2269444
M	486m NW	Unspecified Wharf	1938	2274154



ID	Location	Land use	Dates present	Group ID
M	486m W	Unspecified Dock	1894	2287948
AD	486m N	Gasometer	1989 - 1994	2208227
AD	486m N	Unspecified Tanks	1979	2252084
M	487m W	Unspecified Tanks	1899	2191067
M	489m W	Unspecified Tanks	1938	2170954
M	489m W	Unspecified Tanks	1914	2194429
U	489m E	Unspecified Works	1974	2200050
U	489m E	Unspecified Works	1981 - 1988	2215626
AD	489m N	Unspecified Tank	1955	2225003
AD	489m N	Unspecified Tank	1973	2270861
M	489m W	Unspecified Wharf	1948	2247674
M	491m SW	Unspecified Wharf	1989	2262904
27	495m SW	Unspecified Wharf	1955 - 1973	2293892
M	495m W	Unspecified Tanks	1967	2214503
28	496m NW	Unspecified Wharf	1973	2268930
M	497m SW	Unspecified Wharf	1989	2275545
M	497m W	Unspecified Tanks	1955	2195746
M	499m W	Unspecified Tanks	1948	2178487
V	499m E	Railway Sidings	1981	2169067
V	499m E	Railway Sidings	1989	2169068
V	499m E	Railway Sidings	1988	2169069
29	500m NW	Unspecified Works	1894	2291418
U	500m E	Railway Sidings	1948	2264066

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

264

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Tanks	1980 - 1991	394698
A	On site	Unspecified Tank	1966	366779
A	On site	Tanks	1966	383688
A	On site	Tanks	1951	386260
A	On site	Tanks	1916	394705
A	On site	Tanks	1896	395885
A	On site	Unspecified Tank	1951 - 1974	396292
A	On site	Tanks	1951	396414
A	On site	Tanks	1951	397006
A	On site	Unspecified Tank	1951	397111
A	On site	Tanks	1916	397625
A	On site	Unspecified Tank	1980 - 1991	400221
A	On site	Tanks	1951	407615
A	On site	Tanks	1966	409964
A	On site	Tanks	1951	410042
A	9m SE	Unspecified Tank	1966	366778
D	10m E	Unspecified Tank	1951	390611
D	10m E	Unspecified Tank	1951	385404
D	10m E	Unspecified Tank	1951	389804
A	12m SW	Unspecified Tank	1916	366781
A	14m SW	Unspecified Tank	1951 - 1974	393711



ID	Location	Land use	Dates present	Group ID
A	19m SE	Tanks	1916	376783
A	21m NE	Unspecified Tank	1974 - 1991	389246
A	25m NW	Unspecified Tank	1980 - 1991	406242
A	28m NW	Unspecified Tank	1896	366784
A	32m W	Unspecified Tank	1991	366808
A	35m NW	Unspecified Tank	1916	366785
A	40m NW	Unspecified Tank	1896 - 1916	387563
A	45m NW	Tanks	1991	376755
A	48m NW	Tanks	1974	376717
F	48m E	Unspecified Tank	1916	366776
A	55m NW	Tanks	1896	376754
A	58m N	Unspecified Tank	1974 - 1991	385299
A	62m NE	Tanks	1980 - 1991	386727
A	62m NE	Tanks	1974	394474
A	63m NW	Tanks	1991	376718
A	64m NW	Unspecified Tank	1980 - 1991	388309
A	66m NW	Tanks	1980 - 1991	395623
A	79m N	Unspecified Tank	1980 - 1991	411604
A	81m NW	Unspecified Tank	1980 - 1991	393775
A	81m NW	Unspecified Tank	1974	402327
A	85m SW	Unspecified Tank	1896	366782
C	87m E	Gas Works	1969 - 1992	394235
G	104m E	Tanks	1991 - 1992	383301
G	108m E	Tanks	1991	376784
A	116m NW	Tanks	1980 - 1991	385076
A	118m NW	Tanks	1980	376716
A	118m N	Tanks	1980 - 1991	404733
A	118m N	Unspecified Tank	1966	366786



ID	Location	Land use	Dates present	Group ID
A	118m N	Tanks	1974	381946
A	119m N	Tanks	1974	401101
A	119m NW	Tanks	1980 - 1991	400279
A	119m NW	Tanks	1974	395251
A	119m NW	Tanks	1966	394127
G	120m E	Unspecified Tank	1991 - 1992	382854
A	120m SE	Tanks	1951 - 1974	408850
A	120m SE	Tanks	1951	388253
A	122m N	Tanks	1980	398918
A	122m N	Tanks	1991	384223
A	126m NW	Tanks	1966	376721
A	127m N	Tanks	1974	408000
A	127m NW	Tanks	1974	381826
A	130m NW	Tanks	1966	376720
A	130m NW	Tanks	1991	383712
A	134m NW	Tanks	1966	376719
A	139m NE	Tanks	1974 - 1991	393722
A	140m N	Tanks	1916	376756
A	144m N	Unspecified Tank	1951	391133
A	148m NW	Unspecified Tank	1951	394948
A	148m NW	Unspecified Tank	1951	393623
A	158m NW	Unspecified Tank	1966 - 1980	408046
E	164m SW	Unspecified Tank	1896 - 1916	384810
E	178m SW	Unspecified Tank	1916	366783
L	187m NE	Tanks	1974 - 1991	405889
L	191m NE	Tanks	1982 - 1991	403093
A	193m NW	Tanks	1974	383987
A	193m NW	Tanks	1982 - 1991	385106



ID	Location	Land use	Dates present	Group ID
E	193m S	Unspecified Tank	1951	399159
A	197m N	Tanks	1991	398289
A	197m N	Tanks	1916	376758
C	199m NE	Gas Works	1967	380551
C	199m NE	Gas Works	1968	380552
A	199m N	Tanks	1991	405767
C	200m NE	Gas Works	1982 - 1984	405486
A	200m N	Tanks	1916	407832
A	202m N	Tanks	1916	376757
A	205m N	Tanks	1968 - 1974	411229
A	205m N	Unspecified Tank	1967	366787
A	207m NW	Tanks	1974	387811
A	208m N	Tanks	1982 - 1991	381658
A	208m N	Tanks	1991	376753
A	209m N	Unspecified Tank	1953	399091
A	209m N	Unspecified Tank	1951	386619
A	210m N	Tanks	1974	384332
A	210m NW	Tanks	1968	405432
A	211m NW	Tanks	1974	385039
A	211m NW	Tanks	1967	381789
A	211m N	Tanks	1991	382007
A	212m NW	Tanks	1916	408866
A	214m N	Unspecified Tank	1982 - 1991	397989
A	214m N	Tanks	1982 - 1991	399716
A	216m N	Unspecified Tank	1951 - 1953	389647
A	217m N	Tanks	1982 - 1991	406408
A	217m N	Tanks	1968 - 1974	393455
A	217m N	Tanks	1967	387447



ID	Location	Land use	Dates present	Group ID
A	217m N	Tanks	1982 - 1991	392929
A	218m N	Tanks	1965 - 1991	407603
A	219m N	Unspecified Tank	1896 - 1916	405228
C	227m NE	Gas Works	1991	400188
O	239m NE	Tanks	1991 - 1992	384147
O	240m NE	Tanks	1971	396353
O	241m NE	Gasometer	1991	374043
O	241m NE	Tanks	1979 - 1991	407705
O	241m NE	Unspecified Tank	1982 - 1991	405654
O	241m NE	Unspecified Tank	1967	394971
O	241m NE	Unspecified Tank	1968	402460
O	242m NE	Unspecified Tank	1991 - 1992	404858
O	243m NE	Gasometer	1991	374046
O	243m NE	Tanks	1979 - 1991	385191
A	256m NW	Chalk Tank	1869	374752
A	269m NW	Chalk Tank	1869	374751
A	272m NW	Unspecified Tank	1896	366811
A	274m N	Chalk Tank	1869	374750
A	276m N	Unspecified Tank	1982 - 1991	398064
A	280m N	Tanks	1982 - 1991	384639
A	289m N	Unspecified Tank	1896	366809
A	293m N	Tanks	1982 - 1991	390362
R	293m E	Unspecified Tank	1971 - 1992	395498
A	304m NW	Unspecified Tank	1869	366804
S	305m NE	Gas Works	1985 - 1988	398608
A	307m NW	Chalk Tank	1869	374748
A	307m N	Unspecified Tank	1982 - 1991	401655
A	308m N	Unspecified Tank	1896	366810



ID	Location	Land use	Dates present	Group ID
E	308m SW	Unspecified Tank	1896	366795
A	316m NW	Unspecified Tank	1896	366805
A	320m NW	Chalk Tank	1869	374749
A	322m NW	Unspecified Tank	1869 - 1896	382062
E	325m SW	Unspecified Tank	1896	366794
E	325m SW	Unspecified Tank	1896	366792
W	326m NE	Unspecified Tank	1968 - 1991	384909
W	327m NE	Unspecified Tank	1967	395289
C	333m NE	Unspecified Tank	1982 - 1991	382681
C	333m NE	Unspecified Tank	1982 - 1991	389154
C	333m NE	Unspecified Tank	1967	387720
C	334m NE	Unspecified Tank	1967	406149
C	334m NE	Unspecified Tank	1991	409863
C	334m NE	Unspecified Tank	1968 - 1991	403866
C	334m NE	Unspecified Tank	1968	396210
C	338m NE	Unspecified Tank	1982 - 1991	408483
C	338m NE	Unspecified Tank	1982 - 1991	408903
C	339m NE	Unspecified Tank	1968	394169
C	339m NE	Unspecified Tank	1967	385603
C	339m NE	Unspecified Tank	1967	410002
C	339m NE	Unspecified Tank	1968	392949
C	339m NE	Unspecified Tank	1991	404112
A	341m NW	Unspecified Tank	1869	366812
A	343m NW	Tanks	1951 - 1953	387348
15	344m S	Unspecified Tank	1916	366777
A	347m NW	Tanks	1982	401698
A	347m NW	Tanks	1974	404868
C	348m NE	Unspecified Tank	1967	391731



ID	Location	Land use	Dates present	Group ID
X	348m S	Unspecified Tank	1991	366793
C	348m NE	Unspecified Tank	1968 - 1991	394011
C	349m NE	Unspecified Tank	1982 - 1991	395510
A	350m NW	Unspecified Tank	1951 - 1953	409656
A	359m NW	Tanks	1982	401270
A	359m NW	Tanks	1974	381420
C	375m NE	Unspecified Tank	1982 - 1991	392674
C	375m NE	Unspecified Tank	1991	399553
C	375m NE	Unspecified Tank	1967	394875
C	375m NE	Unspecified Tank	1968 - 1991	389715
C	375m NE	Unspecified Tank	1968	382097
C	375m NE	Unspecified Tank	1982 - 1991	383797
C	375m NE	Unspecified Tank	1967	410131
C	379m NE	Unspecified Tank	1967	384257
C	379m NE	Unspecified Tank	1982 - 1991	398680
C	379m NE	Unspecified Tank	1982 - 1991	393169
C	379m NE	Unspecified Tank	1991	386542
C	379m NE	Unspecified Tank	1968 - 1991	384896
C	379m NE	Unspecified Tank	1967	398519
C	379m NE	Unspecified Tank	1968	398615
18	383m E	Tanks	1971 - 1991	402896
C	387m NE	Unspecified Tank	1968 - 1991	393664
C	387m NE	Unspecified Tank	1967	387465
C	388m NE	Unspecified Tank	1991	389199
A	397m NW	Tanks	1967 - 1991	383280
A	397m NW	Tanks	1965	411210
AB	399m SE	Unspecified Tank	1985 - 1992	396332
AB	400m SE	Unspecified Tank	1977	381442



ID	Location	Land use	Dates present	Group ID
A	403m NW	Tanks	1951 - 1953	383920
M	405m W	Tanks	1949 - 1951	401266
M	405m W	Tanks	1949 - 1967	409088
A	406m NW	Tanks	1951 - 1953	387715
AB	407m SE	Tanks	1951	376782
AB	407m SE	Tanks	-	358952
M	408m W	Tanks	1896	402224
A	412m NW	Tanks	1991	384183
M	417m W	Tanks	1949 - 1967	401382
M	417m W	Tanks	1949	405555
A	418m N	Tanks	1991	399839
AF	423m E	Unspecified Tank	1991	385095
AF	424m E	Unspecified Tank	1971	397418
AF	424m E	Unspecified Tank	1979 - 1991	397259
M	429m W	Tanks	1967	376713
M	433m W	Tanks	1949	376714
M	433m W	Tanks	1949 - 1951	381839
M	433m W	Tanks	1949	376715
M	434m W	Tanks	1967	398263
AD	439m N	Gas Works	1982 - 1991	394100
AD	439m N	Gas Works	1974	380548
AE	439m N	Gas Works	1968 - 1969	393976
AE	439m N	Gas Works	1967	395044
AI	440m N	Gas Works	1950 - 1951	396962
A	443m N	Tanks	1991	394552
M	443m W	Tanks	1949 - 1951	411037
M	446m W	Tanks	1949 - 1951	407941
M	446m W	Tanks	1967	410024



ID	Location	Land use	Dates present	Group ID
M	447m W	Tanks	1949 - 1967	407654
M	447m W	Tanks	1949	405214
M	448m W	Unspecified Tank	1896	366790
M	453m W	Tanks	1951	401922
M	454m W	Tanks	1949 - 1951	396758
M	454m W	Tanks	1967	393175
AK	455m NE	Unspecified Tank	1953	366751
AF	455m E	Gasometer	1970 - 1991	399813
AF	455m E	Unspecified Tank	1988	366767
Z	455m SE	Unspecified Tank	-	358860
AB	456m SE	Unspecified Tank	1977 - 1992	391380
AL	457m E	Unspecified Tank	1968 - 1991	404662
AL	457m E	Unspecified Tank	1967	403350
AI	458m N	Gas Works	1896 - 1953	408160
M	458m W	Unspecified Tank	1967	366791
AO	465m S	Unspecified Tank	1991	366780
M	466m W	Unspecified Tank	1896	366807
M	466m W	Tanks	1949 - 1951	392235
AK	474m NE	Tanks	1953	376919
AD	479m N	Unspecified Tank	1968 - 1991	392790
AD	480m N	Unspecified Tank	1967	387330
AQ	480m SE	Unspecified Tank	1977 - 1991	395611
AJ	482m NE	Tanks	1953	376924
AD	483m N	Unspecified Tanks	1896	379231
AD	483m N	Unspecified Tank	1974	366773
AD	484m N	Gasometer	1953	396063
AD	484m N	Gasometer	1982 - 1991	393075
M	485m W	Unspecified Tank	1916	393090



ID	Location	Land use	Dates present	Group ID
AD	485m N	Unspecified Tank	1896 - 1965	382239
AD	485m N	Gasometer	1951 - 1974	386429
AJ	485m NE	Tanks	1953	376926
AD	485m N	Gasometer	1967	392659
AJ	486m NE	Tanks	1953	376925
M	487m W	Unspecified Tank	1896	402664
AJ	491m NE	Tanks	1953	376922
AJ	492m NE	Tanks	1953	376921
AJ	494m NE	Unspecified Tank	1953	366756
M	494m W	Unspecified Tank	1916	366789
M	495m W	Tanks	1951	399432
M	495m W	Tanks	1949 - 1967	384655
M	496m W	Tanks	1949	400350
M	497m W	Tanks	1967	376712
M	497m W	Tanks	1949 - 1967	384784
M	499m W	Unspecified Tank	1949 - 1967	385810
M	499m W	Tanks	1951	387487
M	500m W	Tanks	1949 - 1967	383691
M	500m W	Tanks	1896	394328

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

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

Features are displayed on the Past land use map on [page 15 >](#)



ID	Location	Land use	Dates present	Group ID
A	On site	Electricity Transformer	1974	250813
A	On site	Electricity Transformer	1974	250815
A	On site	Electricity Substation	1980 - 1991	291917
2	1m E	Electricity Substation	1951	257992
A	7m W	Electricity Transformer	1974	250816
B	31m SW	Electricity Substation	1980 - 1991	291072
5	46m E	Electricity Substation	1974 - 1991	260013
A	81m NW	Electricity Transformer	1980	250817
6	87m E	Gas Works	1969 - 1979	268096
7	92m NE	Electricity Substation	1951	257141
A	95m NW	Electricity Transformer	1974	250818
A	96m NW	Electricity Transformer	1974 - 1991	265659
H	165m NE	Electricity Substation	1951	280232
H	166m NE	Electricity Substation	1951	271824
E	189m S	Electricity Substation	1951	286390
C	199m NE	Gas Works	1967 - 1992	286383
C	200m NE	Gas Works	1982	256723
C	200m NE	Gas Works	1984	256724
A	219m N	Electricity Substation	1974	245521
C	227m NE	Gas Works	1991	255910
A	233m N	Electricity Substation	1951 - 1953	262536
O	241m NE	Gasometer	1991	251525
O	243m NE	Gasometer	1991	251528
Q	263m SE	Electricity Substation	1992	253257
Q	263m SE	Electricity Substation	1991	255424
Q	267m SE	Electricity Substation	1971	267199
Q	268m SE	Electricity Substation	1991	252600
Q	268m SE	Electricity Substation	1991	252112



ID	Location	Land use	Dates present	Group ID
Q	268m SE	Electricity Substation	1985	255142
Q	268m SE	Electricity Substation	1979	256063
N	295m S	Electricity Substation	1991 - 1994	291683
E	301m SW	Electricity Substation	1991	269134
E	303m SW	Electricity Substation	1970	286661
S	305m NE	Gas Works	1988	256726
S	305m NE	Gas Works	1985	256727
16	348m N	Electricity Substation	1967 - 1991	284580
X	348m S	Electricity Substation	1991	255156
A	395m N	Electricity Substation	1967 - 1991	259903
AA	397m SE	Electricity Substation	-	241058
AA	397m SE	Electricity Substation	1991 - 1992	274742
AA	399m SE	Electricity Substation	1951 - 1985	257525
21	422m S	Electricity Substation	1991 - 1992	279687
AG	437m SE	Electricity Substation	1977	245514
AD	439m N	Gas Works	1982 - 1991	270561
AD	439m N	Gas Works	1974	256897
AE	439m N	Gas Works	1896 - 1972	279934
AI	440m N	Gas Works	1950 - 1951	292171
AB	444m SE	Electricity Substation	1951	245513
AB	444m SE	Electricity Substation	-	240198
A	451m N	Electricity Substation	1968	267572
A	452m N	Electricity Substation	1967	287147
AF	455m E	Gasometer	1970 - 1991	283812
AI	458m N	Gas Works	1896 - 1953	276538
AN	458m S	Electricity Substation	1985	245515
AG	460m SE	Electricity Substation	-	240714
AO	466m S	Electricity Substation	1991 - 1992	290463



ID	Location	Land use	Dates present	Group ID
M	469m W	Electricity Substation	1949	259488
M	472m W	Electricity Substation	1949 - 1951	257770
M	481m W	Electricity Substation	1982 - 1991	279263
AQ	481m SE	Electricity Substation	1991 - 1992	289614
AD	484m N	Gasometer	1951 - 1991	266331
AD	485m N	Gasometer	1967	284973

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

5

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
D	On site	Service Station	1951	84002
9	177m SE	Garage	1951	73493
Z	429m SE	Garage	1985	73491
A	436m NW	Shipbuilding and Repairing Yard	1974	74035
AN	458m S	Garage	1991	81771



This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

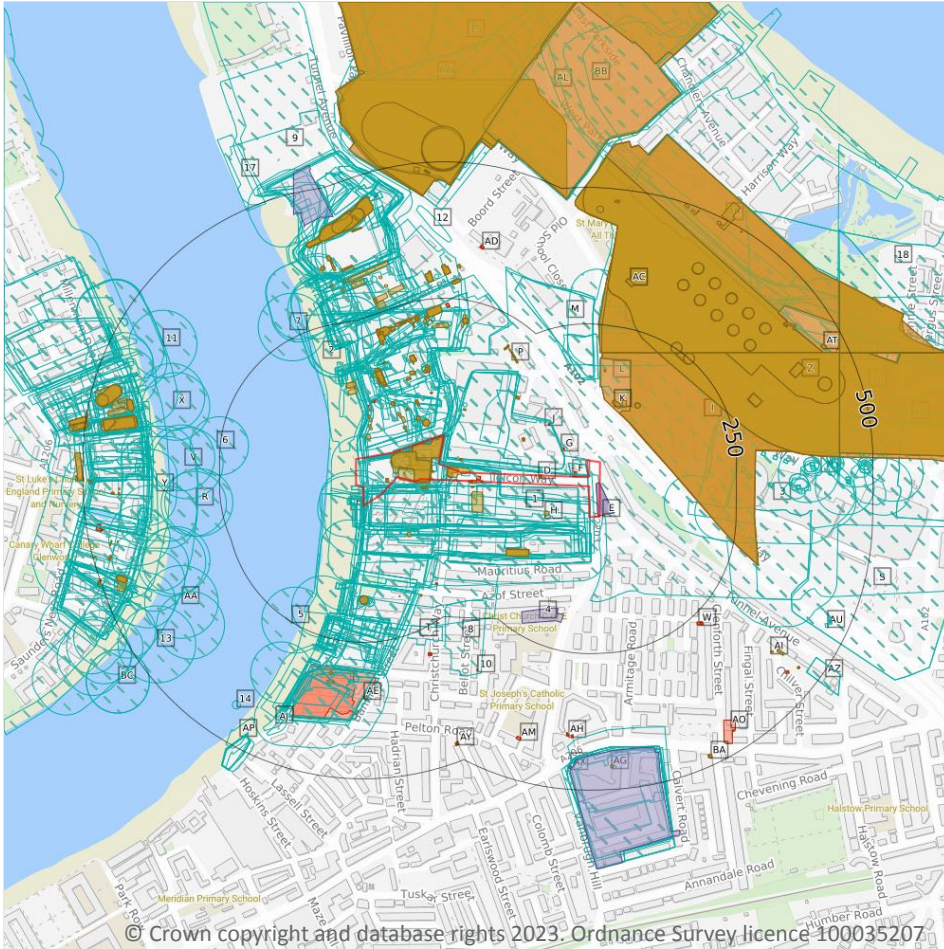
0

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



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

2.1 Historical industrial land uses

Records within 500m **741**

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 ungrouped 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 49](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tanks	1894	2265444
A	On site	Unspecified Tanks	1894	2286435
A	On site	Telegraph Works	1894	2251862

ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1894	2170131
A	On site	Railway Sidings	1894	2288435
A	On site	Unspecified Tanks	1894	2188491
A	On site	Soap and Candle Works	1894	2177747
A	On site	Railway Sidings	1894	2190392
A	On site	Telegraph Works	1894	2169191
A	On site	Telegraph Works	1898	2245293
A	On site	Old Concrete Works	1898	2164625
A	On site	Railway Sidings	1894	2170131
A	On site	Unspecified Industrial/Commercial	1894	2164925
A	On site	Unspecified Tanks	1894	2205304
A	On site	Unspecified Tanks	1894	2265444
A	On site	Concrete Works	1882	2167774
A	On site	Telegraph Works	1882	2251862
A	On site	Railway Sidings	1899	2255065
A	On site	Unspecified Wharf	1899	2187131
A	On site	Unspecified Tanks	1899	2276928
A	On site	Unspecified Tanks	1899	2265584
A	On site	Unspecified Commercial/Industrial	1899	2202757
A	On site	Telegraph Works	1899	2237459
A	On site	Soap and Candle Works	1899	2239313
A	On site	Railway Sidings	1899	2273751
A	On site	Unspecified Wharf	1899	2187131
A	On site	Unspecified Tanks	1899	2276928
A	On site	Unspecified Tanks	1899	2265584
A	On site	Unspecified Commercial/Industrial	1899	2202757
A	On site	Telegraph Works	1899	2237459
A	On site	Soap and Candle Works	1899	2239313



ID	Location	Land Use	Date	Group ID
A	On site	Soap and Candle Works	1938	2218714
A	On site	Railway Sidings	1938	2290606
A	On site	Unspecified Wharf	1938	2224095
A	On site	Soap and Candle Works	1914	2283649
A	On site	Unspecified Tanks	1914	2144047
A	On site	Unspecified Tanks	1914	2207970
A	On site	Unspecified Tank	1914	2155233
A	On site	Submarine Cable Works	1914	2138020
A	On site	Unspecified Tanks	1914	2144046
A	On site	Railway Sidings	1914	2287026
A	On site	Unspecified Wharf	1914	2256399
A	On site	Soap and Candle Works	1894	2234150
A	On site	Railway Sidings	1894	2218482
A	On site	Unspecified Tanks	1894	2265444
A	On site	Unspecified Tanks	1894	2286435
A	On site	Railway Sidings	1894	2293406
A	On site	Telegraph Works	1894	2238248
A	On site	Unspecified Wharves	1894	2181004
A	On site	Unspecified Tanks	1973	2225961
A	On site	Cable Works	1973	2187601
A	On site	Unspecified Depot	1955	2259028
A	On site	Unspecified Tank	1955	2155231
A	On site	Unspecified Tank	1955	2155232
A	On site	Unspecified Tank	1955	2155234
A	On site	Unspecified Depot	1967	2245989
A	On site	Unspecified Tanks	1967	2225961
A	On site	Cable Works	1967	2187601
A	On site	Railway Sidings	1948	2222174



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Works	1994	2226601
A	On site	Unspecified Works	1989	2226601
A	On site	Cable Works	1979	2187601
B	On site	Unspecified Wharf	1894	2238343
B	On site	Unspecified Wharf	1894	2238343
B	On site	Wharf	1898	2160582
B	On site	Unspecified Wharf	1882	2226314
B	On site	Unspecified Wharf	1894	2221228
B	On site	Unspecified Wharf	1973	2248283
B	On site	Unspecified Wharf	1955	2248283
B	On site	Unspecified Wharf	1967	2248283
B	On site	Unspecified Wharf	1948	2214685
C	On site	Marshes	1898	2168782
A	1m NW	Unspecified Ground Workings	1914	2270435
A	1m NW	Railway Sidings	1899	2220867
A	1m NW	Railway Sidings	1899	2220867
B	3m W	Bottling Stores	1989	2141466
B	3m W	Unspecified Wharf	1894	2221228
B	3m W	Unspecified Wharf	1979	2248283
B	3m W	Unspecified Wharf	1994	2183480
A	4m N	Unspecified Depot	1973	2247267
A	4m N	Unspecified Depot	1979	2247267
A	4m NW	Railway Sidings	1894	2213237
A	9m E	Unspecified Commercial/Industrial	1899	2286426
A	9m E	Unspecified Commercial/Industrial	1899	2286426
A	9m NW	Railway Sidings	1894	2180778
A	10m N	Soap and Candle Works	1948	2199997
A	10m SW	Unspecified Foundry	1882	2140135



ID	Location	Land Use	Date	Group ID
A	12m W	Unspecified Wharves	1894	2278446
A	12m N	Unspecified Depot	1994	2276816
A	12m N	Unspecified Depot	1989	2276816
B	14m W	Boat Building Yard	1894	2137966
1	17m E	Rope Walk	1882	2128374
A	17m W	Unspecified Commercial/Industrial	1973	2189055
A	17m W	Unspecified Commercial/Industrial	1979	2189055
A	18m W	Unspecified Commercial/Industrial	1989	2193907
A	18m SW	Unspecified Tank	1914	2155243
A	18m W	Unspecified Commercial/Industrial	1994	2193907
A	19m NW	Unspecified Ground Workings	1938	2220280
A	19m N	Unspecified Ground Workings	1938	2212413
2	19m W	Unspecified Wharf	1989	2290777
A	21m NW	Railway Sidings	1948	2272342
A	23m SE	Unspecified Tanks	1914	2144048
A	26m SE	Railway Sidings	1894	2280889
B	28m SW	Unspecified Wharf	1994	2195573
A	30m SE	Engineering Works	1973	2200900
A	30m SE	Engineering Works	1967	2200900
A	30m SE	Unspecified Commercial/Industrial	1994	2286426
A	30m SE	Unspecified Commercial/Industrial	1989	2286426
A	30m SE	Engineering Works	1979	2200900
A	30m NW	Railway Sidings	1938	2273451
A	30m NW	Railway Sidings	1914	2173662
A	33m NW	Unspecified Tank	1899	2248764
A	33m NW	Unspecified Tank	1899	2248764
A	33m NW	Unspecified Tank	1894	2155228
A	36m NW	Unspecified Tank	1914	2184055



ID	Location	Land Use	Date	Group ID
A	36m NW	Unspecified Tank	1894	2282621
A	38m SW	Foundry	1898	2140969
B	38m SW	Unspecified Wharf	1973	2261010
B	38m SW	Unspecified Wharf	1955	2261010
B	38m SW	Unspecified Wharf	1967	2261010
A	42m NW	Unspecified Tank	1894	2209057
A	43m SW	Unspecified Wharf	1938	2181200
A	51m SW	Brick Field	1882	2256314
H	53m SE	Unspecified Tank	1914	2155242
A	56m NE	Railway Sidings	1967	2128691
A	64m N	Chimney	1955	2165116
A	76m NW	Railway Sidings	1898	2265281
A	83m SW	Boat Building Yard	1894	2226733
A	85m SW	Boat Building Yard	1894	2226733
A	87m SW	Brick Field	1898	2236751
A	87m SW	Unspecified Wharf	1914	2267148
A	88m SW	Boat Building Yard	1899	2177397
A	88m SW	Boat Building Yard	1899	2177397
A	97m NW	Soap Works	1898	2262228
A	100m NW	Unspecified Works	1967	2159883
A	101m N	Soap and Candle Works	1894	2266481
A	104m SW	Boat Building Yard	1894	2192747
A	105m NW	Railway Sidings	1898	2220867
A	107m SE	Unspecified Tanks	1973	2244634
A	107m SE	Unspecified Tanks	1967	2244634
A	107m SE	Unspecified Tanks	1994	2244634
A	107m SE	Unspecified Tanks	1989	2244634
A	107m SE	Unspecified Tanks	1979	2244634



ID	Location	Land Use	Date	Group ID
A	112m N	Soap Works	1882	2289669
A	115m SW	Unspecified Wharves	1973	2205108
A	115m SW	Unspecified Wharf	1955	2257214
A	115m SW	Unspecified Wharf	1967	2257214
A	118m SW	Unspecified Warehouse	1973	2211143
A	118m SW	Unspecified Warehouse	1967	2211143
A	118m SW	Unspecified Warehouse	1979	2211143
3	119m E	Ammunition Works	1894	2194478
A	119m NW	Unspecified Tanks	1967	2144042
A	119m N	Unspecified Tank	1994	2276462
A	121m N	Unspecified Tank	1989	2213968
A	121m N	Unspecified Tank	1973	2213968
A	121m N	Unspecified Tank	1967	2213968
A	121m N	Unspecified Tank	1979	2213968
A	126m SW	Unspecified Wharf	1948	2257214
A	127m NW	Railway Sidings	1955	2171406
L	130m NE	Laundry	1955	2291319
L	130m NE	Laundry	1967	2291319
A	135m NW	Railway Sidings	1882	2242955
A	137m SW	Unspecified Wharf	1989	2204156
A	141m SW	Unspecified Wharf	1979	2180583
A	142m SW	Unspecified Wharves	1894	2213284
A	142m SW	Unspecified Depot	1973	2260783
A	142m SW	Unspecified Depot	1967	2260783
A	143m SW	Unspecified Wharf	1882	2191135
A	146m SW	Unspecified Commercial/Industrial	1899	2198631
A	146m SW	Unspecified Commercial/Industrial	1899	2198631
A	146m NW	Railway Sidings	1899	2220867



ID	Location	Land Use	Date	Group ID
A	146m NW	Railway Sidings	1899	2220867
L	148m NE	Paint Works	1938	2236165
L	148m NE	Paint Works	1914	2172285
L	151m NE	Paint Works	1948	2187226
A	153m NW	Unspecified Tanks	1973	2223575
A	153m NW	Unspecified Tanks	1967	2223575
A	153m NW	Unspecified Tanks	1979	2223575
A	154m NW	Unspecified Wharf	1979	2180507
A	154m NW	Unspecified Tanks	1989	2252080
A	154m NW	Unspecified Wharf	1994	2284037
M	154m NE	Unspecified Depot	1994	2257463
M	154m NE	Unspecified Depot	1989	2257463
A	155m NW	Railway Sidings	1894	2180777
A	157m NW	Unspecified Wharf	1938	2261381
A	157m NW	Unspecified Wharf	1914	2193069
N	162m E	Unspecified Works	1894	2159882
A	162m N	Railway Sidings	1955	2219989
A	164m SW	Unspecified Tank	1894	2269861
A	165m SW	Unspecified Tank	1894	2257316
A	166m SW	Unspecified Tank	1938	2188751
A	166m SW	Unspecified Tank	1914	2265962
A	167m SW	Unspecified Tank	1894	2201217
A	168m SW	Unspecified Tank	1948	2283416
A	169m SW	Unspecified Tank	1894	2247957
A	170m SW	Unspecified Tank	1899	2265962
A	170m SW	Unspecified Tank	1899	2265962
A	170m SW	Unspecified Pit	1882	2125461
O	174m NE	Ammunition Works	1894	2208168



ID	Location	Land Use	Date	Group ID
N	175m E	Ammunition Works	1894	2261557
M	175m NE	Unspecified Works	1967	2159880
5	183m SW	Unspecified Wharves	1894	2213763
A	195m NW	Cement Works	1882	2248231
A	196m N	Unspecified Tanks	1994	2144049
6	198m W	Unspecified Wharf	1882	2226958
A	201m SW	Unspecified Wharf	1938	2270255
A	201m SW	Unspecified Wharf	1914	2287019
A	203m SW	Railway Sidings	1894	2224662
A	205m NW	Unspecified Wharf	1899	2288070
A	205m NW	Unspecified Wharf	1899	2288070
A	206m SW	Unspecified Commercial/Industrial	1899	2198631
A	206m SW	Unspecified Commercial/Industrial	1899	2198631
7	207m NW	Unspecified Wharf	1894	2242129
A	207m SW	Unspecified Ground Workings	1898	2133809
A	208m SW	Unspecified Wharf	1948	2198775
A	209m SW	Unspecified Wharves	1894	2273304
A	209m NW	Unspecified Wharf	1967	2196252
A	209m NW	Unspecified Wharf	1955	2249266
A	209m NW	Unspecified Wharf	1973	2235450
A	210m SW	Unspecified Wharf	1973	2198775
A	210m SW	Unspecified Wharf	1955	2198775
A	210m SW	Unspecified Wharf	1967	2198775
A	210m SW	Railway Sidings	1894	2192974
A	210m SW	Railway Sidings	1894	2276346
A	210m SW	Unspecified Wharf	1989	2219312
A	211m SW	Unspecified Wharf	1979	2198775
A	211m N	Unspecified Tank	1914	2155154



ID	Location	Land Use	Date	Group ID
A	212m SW	Wharf	1898	2160580
A	213m SW	Unspecified Wharves	1899	2214611
A	213m SW	Unspecified Wharves	1899	2214611
A	214m SW	Railway Sidings	1899	2267814
A	214m SW	Railway Sidings	1899	2267814
A	215m SW	Railway Sidings	1938	2212283
A	215m SW	Railway Sidings	1914	2267814
A	215m NW	Portland Cement Works	1898	2142879
A	217m SW	Railway Sidings	1894	2276346
8	218m S	Oil Works	1882	2164648
A	223m SW	Railway Sidings	1948	2238950
C	226m NE	Gas Works	1989	2135558
R	228m W	Unspecified Wharf	1894	2226958
A	230m NW	Unspecified Wharf	1894	2242129
S	234m E	Ammunition Works	1898	2271858
S	234m E	Ammunition Works	1898	2271858
A	235m NW	Unspecified Wharf	1994	2284037
O	235m NE	Ammunition Works	1894	2202207
T	237m S	Oil Works	1898	2164649
A	237m NW	Unspecified Works	1994	2230181
A	239m NW	Unspecified Wharf	1979	2203969
R	240m W	Unspecified Wharf	1894	2226958
O	241m NE	Ammunition Works	1894	2263729
A	242m NW	Unspecified Wharf	1955	2187969
A	242m NW	Unspecified Wharf	1948	2187969
V	243m W	Unspecified Wharves	1894	2247242
A	244m NW	Telegraph Works	1894	2198640
U	244m NE	Unspecified Tanks	1973	2263600



ID	Location	Land Use	Date	Group ID
U	244m NE	Unspecified Tanks	1989	2263600
U	244m NE	Unspecified Tanks	1979	2263600
9	244m N	Linoleum Works	1938	2223094
O	245m NE	Ammunition Works	1898	2197061
O	245m NE	Ammunition Works	1898	2197061
A	246m NW	Telegraph Works	1899	2290099
A	246m NW	Telegraph Works	1899	2290099
U	247m NE	Unspecified Tanks	1973	2259216
U	247m NE	Unspecified Tanks	1989	2259216
U	247m NE	Unspecified Tanks	1979	2259216
A	247m NW	Electricity Telegraph Works	1898	2151464
A	247m NW	Wharf	1898	2160583
A	250m NW	Unspecified Commercial/Industrial	1920	2273695
A	252m NW	Unspecified Wharf	1894	2193891
A	253m NW	Cement Works	1898	2225093
A	253m NW	Telegraph Works	1894	2196222
A	253m NW	Telegraph Works	1896	2260913
A	255m NW	Telegraph Works	1894	2260913
V	259m W	Unspecified Wharves	1894	2209116
N	259m E	Abandoned Airfield	1898	2193504
N	259m E	Abandoned Airfield	1898	2193504
A	260m SW	Unspecified Wharf	1989	2198775
A	263m SW	Lime and Cement Works	1894	2152332
A	266m N	Unspecified Works	1989	2175157
A	267m NW	Unspecified Wharf	1938	2279394
A	267m SW	Unspecified Wharf	1994	2291355
N	269m E	Abandoned Airfield	1898	2217763
N	269m E	Abandoned Airfield	1898	2217763



ID	Location	Land Use	Date	Group ID
A	270m SW	Unspecified Wharves	1894	2291567
O	273m NE	Unspecified Tank	1894	2155120
A	281m N	Chimney	1920	2165115
X	282m W	Unspecified Wharf	1894	2226958
A	284m SW	Unspecified Wharf	1882	2244364
A	286m N	Chimney	1948	2165107
A	288m N	Chimney	1938	2165114
Y	290m W	Unspecified Wharf	1979	2175349
Y	290m W	Unspecified Wharf	1989	2253400
A	295m NW	Railway Sidings	1898	2128692
Y	295m W	Unspecified Wharf	1979	2208600
Y	295m W	Unspecified Wharf	1894	2226958
N	296m E	Magazines	1898	2224793
N	296m E	Magazines	1898	2224793
X	296m W	Unspecified Wharf	1973	2254177
A	296m SW	Unspecified Wharf	1994	2228318
A	297m NW	Unspecified Wharf	1973	2189412
A	297m SW	Unspecified Wharf	1973	2188169
A	297m SW	Unspecified Wharf	1955	2188169
A	297m SW	Unspecified Wharf	1967	2188169
A	297m SW	Unspecified Wharf	1979	2188169
O	299m NE	Unspecified Tank	1894	2155121
Q	299m E	Unspecified Tank	1973	2199170
Q	299m E	Unspecified Tank	1979	2199170
A	299m SW	Lime, Cement and Slate Works	1894	2190928
A	302m SW	Lime, Cement and Slate Works	1894	2232415
N	303m E	Magazines	1898	2203532
N	303m E	Magazines	1898	2203532



ID	Location	Land Use	Date	Group ID
A	303m SW	Unspecified Wharf	1938	2266903
A	303m SW	Unspecified Wharf	1914	2252092
Y	304m W	Unspecified Wharf	1967	2187894
C	304m NE	Railway Sidings	1955	2224911
A	306m N	Chimney	1938	2165113
A	307m SW	Railway Sidings	1938	2274741
A	307m SW	Railway Sidings	1914	2225446
A	307m NW	Chimney	1920	2268486
C	308m NE	Railway Sidings	1967	2168797
A	308m SW	Lime, Cement and Slate Works	1899	2193771
A	308m SW	Lime, Cement and Slate Works	1899	2193771
A	308m SW	Unspecified Tank	1898	2155236
N	309m E	Magazines	1898	2222936
N	309m E	Magazines	1898	2222936
A	309m NW	Chimney	1948	2268486
A	309m SW	Railway Sidings	1948	2228818
AA	310m SW	Dry Dock	1894	2141063
A	310m NW	Boiler Works	1894	2240393
A	311m NW	Boiler Works	1896	2195891
C	311m NE	Unspecified Commercial/Industrial	1973	2191974
C	311m NE	Unspecified Commercial/Industrial	1979	2276682
AB	312m E	Marshes	1894	2168737
A	312m SW	Unspecified Tank	1914	2155235
A	313m SW	Lime, Cement and Slate Works	1894	2232415
A	313m NW	Boiler Works	1894	2243646
AB	316m E	Marshes	1898	2266748
AB	316m E	Marshes	1898	2266748
C	317m NE	Refuse Heap	1967	2247318



ID	Location	Land Use	Date	Group ID
N	317m E	Magazines	1898	2278668
N	317m E	Magazines	1898	2278668
A	318m NW	Iron Boat Building Yard	1898	2138032
A	319m NW	Boiler Works	1899	2209097
A	319m NW	Boiler Works	1899	2209097
A	321m NW	Unspecified Tank	1898	2155151
A	321m NW	Unspecified Works	1973	2229000
A	321m NW	Unspecified Works	1967	2229000
A	321m NW	Unspecified Works	1979	2229000
A	323m NW	Boiler Works	1894	2240393
AA	323m SW	Unspecified Wharf	1894	2226958
C	323m NE	Refuse Heap	1955	2247318
A	324m NW	Unspecified Commercial/Industrial	1948	2214966
A	324m SW	Unspecified Wharf	1948	2187370
A	325m NW	Unspecified Commercial/Industrial	1955	2214966
A	326m NW	Unspecified Wharf	1920	2246078
N	327m E	Magazines	1894	2216510
Y	328m W	Unspecified Wharf	1994	2231958
A	329m NW	Railway Sidings	1896	2264526
A	329m NW	Railway Sidings	1898	2171111
A	330m SW	Unspecified Tank	1914	2155204
A	331m NW	Railway Sidings	1899	2227625
A	331m NW	Railway Sidings	1899	2227625
A	333m NW	Railway Sidings	1894	2293817
A	335m N	Railway Sidings	1894	2293817
A	335m NW	Railway Sidings	1894	2194914
Y	335m W	Unspecified Wharf	1979	2249791
N	336m E	Magazines	1898	2229369



ID	Location	Land Use	Date	Group ID
N	336m E	Magazines	1898	2231597
C	337m NE	Unspecified Tank	1973	2223157
C	337m NE	Unspecified Tank	1989	2223157
C	337m NE	Unspecified Tank	1979	2223157
N	338m E	Unspecified Heap	1894	2178086
A	339m SW	Wharf	1898	2160581
Y	341m W	Dock	1894	2271994
C	342m NE	Unspecified Tank	1973	2215346
C	342m NE	Unspecified Tank	1989	2215346
C	342m NE	Unspecified Tank	1979	2215346
C	344m NE	Unspecified Tank	1973	2242740
C	344m NE	Unspecified Tank	1979	2242740
Y	345m W	Unspecified Wharf	1989	2188888
C	346m NE	Unspecified Tank	1973	2217896
C	346m NE	Unspecified Tank	1989	2217896
C	346m NE	Unspecified Tank	1979	2217896
N	347m E	Unspecified Heap	1898	2213221
N	347m E	Unspecified Heap	1898	2213221
N	347m E	Unspecified Heap	1894	2284892
11	349m NW	Unspecified Wharf	1894	2226958
N	350m E	Unspecified Heap	1894	2284892
C	350m NE	Unspecified Tank	1973	2254258
C	350m NE	Unspecified Tank	1989	2254258
C	350m NE	Unspecified Tank	1979	2254258
Y	351m W	Unspecified Wharf	1882	2226958
Y	353m W	Unspecified Wharf	1894	2226958
12	353m N	Tunnel	1967	2151553
N	361m E	Magazines	1898	2267368



ID	Location	Land Use	Date	Group ID
N	361m E	Magazines	1898	2190088
N	362m E	Magazines	1894	2243583
Y	364m W	Dry Dock	1894	2293114
Y	369m W	Unspecified Wharf	1948	2290053
Y	371m W	Rice Mill	1882	2217506
Y	371m W	Ship Building Yard	1882	2202205
Y	372m W	Ship Repairing Works	1882	2262028
Y	372m W	Rice Mill	1867	2249058
Y	373m W	Ship Repairing Works	1867	2217462
Y	373m W	Unspecified Wharf	1867	2289923
N	373m E	Unspecified Heap	1898	2182376
N	373m E	Unspecified Heap	1898	2182376
Y	374m W	Unspecified Wharves	1899	2207604
Y	374m W	Unspecified Wharf	1899	2260066
Y	374m W	Unspecified Wharves	1899	2207604
Y	374m W	Unspecified Wharf	1899	2260066
N	375m E	Unspecified Heap	1894	2186299
N	375m E	Unspecified Heap	1894	2186299
Y	376m W	Unspecified Wharf	1867	2195268
Y	378m W	Rice Mill	1898	2186027
Y	378m W	Unspecified Commercial/Industrial	1938	2289699
Y	378m W	Unspecified Wharfs	1938	2197217
Y	378m W	Unspecified Wharfs	1914	2173143
Y	378m W	Unspecified Commercial/Industrial	1914	2182590
Y	379m W	Wharf	1898	2160584
Y	379m W	Unspecified Wharf	1882	2226369
C	379m NE	Unspecified Tank	1973	2267126
C	379m NE	Unspecified Tank	1989	2267126



ID	Location	Land Use	Date	Group ID
C	379m NE	Unspecified Tank	1979	2267126
Y	380m W	Unspecified Wharf	1967	2260066
Y	380m W	Railway Sidings	1938	2174209
Y	380m W	Railway Sidings	1914	2236705
Y	380m W	Ship Building Yard	1898	2179301
Y	380m W	Ship Building Yard	1867	2209320
C	380m NE	Unspecified Tank	1973	2276302
C	380m NE	Unspecified Tank	1989	2276302
C	380m NE	Unspecified Tank	1979	2276302
Y	381m W	Wharf	1898	2160585
Y	381m SW	Unspecified Wharf	1979	2288854
Y	382m W	Unspecified Wharves	1894	2273977
Y	382m W	Unspecified Wharf	1894	2179715
Y	383m W	Unspecified Wharf	1973	2170043
Y	383m W	Unspecified Wharf	1955	2289536
C	384m NE	Unspecified Tank	1973	2274617
C	384m NE	Unspecified Tank	1989	2274617
C	384m NE	Unspecified Tank	1979	2274617
Y	384m W	Unspecified Wharf	1967	2218287
13	384m SW	Dock	1894	2146535
C	384m NE	Unspecified Tank	1973	2170037
C	384m NE	Unspecified Tank	1989	2170037
C	384m NE	Unspecified Tank	1979	2170037
Y	384m W	Unspecified Wharf	1979	2240228
N	385m E	Magazines	1898	2272763
N	385m E	Magazines	1898	2189119
Y	385m W	Unspecified Wharf	1948	2272578
N	386m E	Magazines	1894	2284917



ID	Location	Land Use	Date	Group ID
Y	386m W	Unspecified Wharf	1899	2254177
Y	386m W	Unspecified Wharf	1899	2254177
Y	387m W	Railway Sidings	1938	2283097
Y	387m W	Railway Sidings	1914	2228332
Y	387m W	Unspecified Commercial/Industrial	1948	2234240
Y	387m W	Unspecified Wharf	1948	2251960
N	388m E	Magazines	1894	2232310
Y	388m W	Unspecified Wharf	1973	2174389
Y	388m W	Unspecified Wharf	1955	2273630
Y	389m W	Unspecified Wharves	1894	2273977
Y	389m W	Unspecified Wharf	1894	2226958
Y	389m W	Dock	1894	2266486
Y	389m W	Unspecified Wharf	1894	2226958
AF	390m E	Unspecified Heap	1894	2177558
Y	390m W	Unspecified Wharf	1894	2226958
AG	390m SE	Unspecified Workhouse	1882	2208531
Y	392m W	Dry Dock	1899	2191862
Y	392m W	Dry Dock	1899	2191862
Y	392m W	Unspecified Wharf	1894	2226958
Y	393m W	Unspecified Commercial/Industrial	1955	2216169
Y	393m W	Unspecified Wharf	1955	2258398
Y	393m W	Unspecified Wharf	1948	2207727
Y	393m W	Unspecified Wharf	1899	2187894
Y	393m W	Unspecified Wharf	1899	2187894
Y	393m W	Unspecified Commercial/Industrial	1967	2198458
Y	393m W	Unspecified Wharf	1948	2283681
C	394m NE	Unspecified Tank	1973	2233732
C	394m NE	Unspecified Tank	1989	2233732



ID	Location	Land Use	Date	Group ID
C	394m NE	Unspecified Tank	1979	2233732
N	395m E	Magazines	1894	2172078
A	395m NW	Unspecified Tank	1989	2155150
Y	396m W	Unspecified Wharf	1894	2281583
Y	396m W	Ship Building Yard	1867	2245723
Y	396m W	Unspecified Tanks	1938	2245159
Y	396m W	Unspecified Tanks	1914	2284423
Y	397m W	Unspecified Wharf	1994	2236689
A	398m NW	Unspecified Tanks	1973	2269023
A	398m NW	Unspecified Tanks	1967	2269023
A	398m NW	Unspecified Tanks	1979	2269023
A	399m NW	Unspecified Tanks	1989	2215420
A	400m NW	Unspecified Tanks	1920	2267214
AF	400m E	Unspecified Heap	1898	2243564
AF	400m E	Unspecified Heap	1898	2243564
Y	401m W	Railway Sidings	1955	2223124
AF	401m E	Unspecified Heap	1894	2177558
Y	401m W	Ship Building Yard	1898	2254948
AF	401m E	Unspecified Heap	1894	2207157
A	403m NW	Unspecified Tanks	1955	2255869
A	403m NW	Unspecified Tanks	1948	2197566
A	403m NW	Unspecified Tanks	1938	2267214
Y	404m W	Dry Dock	1894	2234626
Y	405m W	Unspecified Tanks	1967	2238296
Y	405m W	Ship Building Yard	1882	2255702
Y	406m W	Dry Dock	1894	2293114
Y	407m W	Unspecified Tanks	1948	2292606
Y	407m W	Unspecified Wharf	1894	2226958



ID	Location	Land Use	Date	Group ID
AJ	407m SW	Unspecified Wharves	1967	2245468
Y	407m W	Unspecified Wharf	1894	2226958
Y	408m W	Unspecified Wharf	1894	2253143
A	409m NW	Unspecified Wharf	1955	2235388
Y	410m W	Dry Dock	1894	2234626
AK	411m N	Unspecified Commercial/Industrial	1955	2258348
A	413m NW	Unspecified Tank	1989	2286102
Y	413m W	Unspecified Tank	1955	2155229
A	414m NW	Unspecified Tank	1973	2262038
A	414m NW	Unspecified Tank	1967	2262038
A	414m NW	Unspecified Tank	1979	2262038
A	415m N	Unspecified Tank	1994	2214089
A	415m N	Unspecified Tank	1989	2214089
A	415m NW	Unspecified Tank	1973	2214089
A	415m NW	Unspecified Tank	1967	2214089
A	415m NW	Unspecified Tank	1979	2214089
N	416m E	Unspecified Heap	1894	2287241
Y	416m W	Railway Sidings	1894	2263128
C	416m NE	Cuttings	1948	2129770
N	416m E	Magazines	1894	2174505
Y	417m W	Unspecified Tanks	1967	2264185
Y	417m W	Unspecified Tank	1955	2155227
Y	418m W	Unspecified Wharf	1867	2254725
AJ	418m SW	Wharf	1898	2160579
Y	419m W	Railway Sidings	1894	2203734
AL	419m N	Unspecified Commercial/Industrial	1920	2226545
N	422m E	Unspecified Heap	1898	2238076
N	422m E	Unspecified Heap	1898	2238076



ID	Location	Land Use	Date	Group ID
AL	422m NE	Railway Sidings	1920	2219221
AG	422m SE	Hospital	1973	2256015
AG	422m SE	Hospital	1955	2256015
AG	422m SE	Hospital	1967	2256015
AG	422m SE	Hospital	1994	2256015
AG	422m SE	Hospital	1989	2256015
AG	422m SE	Hospital	1979	2256015
A	423m N	Unspecified Tank	1994	2275361
A	423m N	Unspecified Tank	1989	2275361
N	424m E	Unspecified Heap	1894	2191817
A	424m N	Unspecified Tank	1973	2240288
A	424m N	Unspecified Tank	1967	2240288
AG	424m SE	Unspecified Workhouse	1894	2271787
14	425m SW	Unspecified Wharf	1882	2157216
N	425m E	Unspecified Heap	1894	2191817
AG	426m SE	Unspecified Workhouse	1894	2215199
AG	428m SE	Unspecified Commercial/Industrial	1948	2130980
AG	428m SE	Unspecified Workhouse	1894	2271787
Y	429m W	Unspecified Tank	1955	2155226
AN	429m E	Unspecified Tank	1973	2188680
AN	429m E	Unspecified Tank	1989	2188680
AN	429m E	Unspecified Tank	1979	2188680
Y	430m W	Unspecified Tank	1955	2155230
AK	430m N	Gas Works	1989	2262514
Y	431m W	Ship Repairing Works	1898	2152582
A	431m N	Unspecified Tank	1989	2273263
A	432m N	Unspecified Tank	1973	2280474
A	432m N	Unspecified Tank	1967	2280474



ID	Location	Land Use	Date	Group ID
A	432m N	Unspecified Tank	1979	2280474
Y	434m W	Unspecified Tank	1955	2155225
AB	436m NE	Railway Sidings	1914	2276298
AG	436m SE	Workhouse	1898	2128985
AB	437m NE	Railway Sidings	1938	2219221
Y	438m SW	Unspecified Wharf	1979	2275379
AP	438m SW	Unspecified Wharf	1882	2171423
N	438m E	Unspecified Heap	1962	2189007
Y	438m W	Unspecified Dock	1899	2229772
Y	438m W	Unspecified Dock	1899	2229772
Y	439m W	Unspecified Tanks	1938	2184308
Y	439m W	Unspecified Tanks	1914	2281596
Y	439m W	Unspecified Wharf	1948	2289824
Y	441m W	Unspecified Commercial/Industrial	1973	2130979
15	442m NE	Railway Sidings	1938	2256181
Y	443m W	Unspecified Tank	1955	2155223
AR	443m NE	Fuel Research Station	1955	2262345
AR	443m NE	Fuel Research Station	1967	2262345
Y	444m W	Dry Dock	1894	2195218
Y	444m W	Dock	1894	2266486
Y	445m W	Unspecified Tanks	1967	2293860
A	446m N	Unspecified Tanks	1989	2181480
A	446m NW	Unspecified Disused Wharf	1973	2231339
A	446m NW	Unspecified Disused Wharf	1979	2231339
Y	446m SW	Unspecified Wharf	1894	2278449
Y	446m W	Unspecified Tank	1948	2263112
AS	446m NE	Unspecified Tank	1948	2249959
A	447m N	Unspecified Tanks	1973	2222008



ID	Location	Land Use	Date	Group ID
A	447m N	Unspecified Tanks	1967	2222008
A	447m N	Unspecified Tanks	1979	2222008
Y	448m W	Unspecified Tank	1955	2199443
AS	448m NE	Unspecified Tank	1938	2239603
A	449m N	Unspecified Tanks	1989	2283182
Y	449m W	Unspecified Tank	1955	2155224
N	450m E	Magazines	1894	2288513
Y	450m W	Unspecified Wharf	1948	2193659
Y	450m W	Unspecified Wharf	1973	2283862
Y	450m W	Unspecified Wharf	1955	2262905
N	451m E	Magazines	1898	2273720
N	451m E	Magazines	1898	2290742
Y	452m W	Dry Dock	1899	2264016
Y	452m W	Dry Dock	1899	2264016
Y	452m W	Unspecified Tanks	1973	2274715
Y	452m W	Unspecified Tanks	1967	2274715
AK	453m N	Unspecified Works	1894	2159879
N	453m E	Magazines	1894	2228729
Y	453m W	Unspecified Wharf	1955	2183026
Y	454m W	Unspecified Tank	1899	2232906
Y	454m W	Unspecified Tank	1899	2232906
AS	454m NE	Unspecified Tank	1955	2171919
AS	454m NE	Unspecified Tank	1967	2171919
Y	455m W	Unspecified Wharf	1948	2194230
Y	455m W	Railway Sidings	1899	2228332
Y	455m W	Railway Sidings	1899	2228332
AG	457m SE	Unspecified Tank	1948	2155244
AU	457m E	Magazines	1894	2157596



ID	Location	Land Use	Date	Group ID
AU	458m E	Magazines	1898	2284803
AU	458m E	Magazines	1898	2284803
AW	458m N	Gas Works	1896	2212561
Y	459m W	Unspecified Tanks	1973	2192551
Y	459m W	Unspecified Tanks	1967	2192551
N	459m E	Unspecified Heap	1894	2255867
Y	460m W	Unspecified Tank	1955	2155222
AK	460m N	Gas Works	1994	2262514
Y	461m W	Unspecified Tank	1894	2223887
AK	461m N	Unspecified Commercial/Industrial	1948	2204343
AU	461m E	Magazines	1894	2241027
AW	461m N	Gas Works	1894	2212561
Y	462m W	Ship Building Works	1882	2290514
Y	462m W	Unspecified Wharf	1899	2273845
Y	462m W	Unspecified Wharf	1899	2273845
AU	462m E	Magazines	1894	2241027
Y	462m W	Wharf	1898	2160586
AK	462m N	Unspecified Commercial/Industrial	1899	2255635
AK	462m N	Unspecified Commercial/Industrial	1899	2255635
Y	463m W	Dry Dock	1894	2195218
Y	463m W	Dry Dock	1948	2268401
Y	464m W	Unspecified Tank	1948	2227020
Y	464m W	Unspecified Tank	1955	2155219
Y	464m W	Unspecified Tank	1955	2244610
16	464m E	Unspecified Heap	1962	2136820
N	465m E	Magazines	1894	2233307
Y	465m W	Unspecified Wharf	1894	2248081
Y	465m W	Dry Dock	1938	2278486



ID	Location	Land Use	Date	Group ID
Y	465m W	Unspecified Wharfs	1938	2231365
Y	465m W	Dry Dock	1914	2207681
Y	465m W	Unspecified Wharfs	1914	2271898
A	467m NW	Unspecified Wharf	1994	2172243
AP	467m SW	Unspecified Wharves	1994	2249693
AL	467m N	Unspecified Commercial/Industrial	1938	2226545
Y	467m W	Unspecified Tank	1894	2202467
Y	467m W	Unspecified Wharf	1899	2181167
Y	467m W	Unspecified Wharf	1899	2281415
Y	468m W	Unspecified Tank	1894	2202467
AK	469m N	Unspecified Ground Workings	1896	2256605
Y	469m W	Unspecified Wharf	1967	2171681
Y	469m W	Railway Sidings	1894	2207050
AP	469m SW	Unspecified Wharves	1989	2249693
Y	470m W	Unspecified Tank	1882	2155221
Y	470m W	Unspecified Wharf	1948	2209001
Y	471m W	Unspecified Tank	1867	2155220
Y	471m W	Unspecified Wharf	1973	2236322
Y	471m W	Ship Building Yard	1867	2270322
Y	471m W	Ship Building Works	1867	2242578
Y	472m W	Manure Works	1899	2290867
Y	472m W	Manure Works	1899	2290867
N	472m E	Unspecified Heap	1898	2180325
N	472m E	Unspecified Heap	1898	2180325
Y	472m SW	Unspecified Wharf	1979	2287651
Y	473m W	Ship Building Yard	1898	2292874
AP	473m SW	Unspecified Wharves	1973	2176227
AP	473m SW	Unspecified Wharf	1955	2239133



ID	Location	Land Use	Date	Group ID
AP	473m SW	Unspecified Wharf	1967	2239133
AP	473m SW	Unspecified Wharves	1979	2176227
AZ	473m SE	Unspecified Commercial/Industrial	1973	2130981
AZ	473m SE	Unspecified Works	1967	2159881
AK	474m N	Unspecified Ground Workings	1899	2213219
AK	474m N	Unspecified Ground Workings	1899	2213219
N	474m E	Magazines	1898	2204680
N	474m E	Magazines	1898	2256334
N	474m E	Magazines	1894	2288757
N	475m E	Unspecified Heap	1894	2240687
N	475m E	Unspecified Heap	1894	2240687
AP	475m SW	Wharf	1898	2160577
Y	477m W	Unspecified Tank	1898	2155211
Y	477m W	Unspecified Wharf	1894	2183510
N	477m E	Magazines	1894	2187481
AQ	478m E	Unspecified Ground Workings	1962	2133791
Y	479m W	Unspecified Works	1898	2159885
Y	480m W	Unspecified Wharf	1967	2239676
Y	480m W	Manure Works	1894	2203849
BB	481m NE	Gas Works	1973	2202340
BB	481m NE	Gas Works	1979	2202340
AK	481m N	Unspecified Tanks	1920	2170445
AK	482m N	Unspecified Tank	1894	2287640
Y	482m W	Unspecified Wharf	1894	2225365
AK	483m N	Unspecified Tanks	1896	2216704
AL	483m NE	Unspecified Commercial/Industrial	1948	2255648
AL	484m N	Gas Works	1967	2168916
Y	484m W	Manure Works	1894	2203849



ID	Location	Land Use	Date	Group ID
N	484m E	Magazines	1894	2184332
AK	485m N	Unspecified Tank	1948	2235241
AK	485m N	Gasometer	1894	2188420
AK	485m N	Unspecified Tanks	1938	2202054
AK	485m N	Unspecified Tanks	1899	2197033
AK	485m N	Unspecified Tanks	1899	2197033
Y	486m NW	Unspecified Wharf	1938	2274154
Y	486m NW	Unspecified Wharf	1914	2269444
Y	486m W	Unspecified Dock	1894	2287948
AK	486m N	Gasometer	1994	2208227
AK	486m N	Gasometer	1989	2208227
AK	486m N	Unspecified Tanks	1979	2252084
Y	487m NW	Ship Building Yard	1882	2248708
Y	487m W	Unspecified Tanks	1899	2191067
Y	487m W	Unspecified Tanks	1899	2191067
Y	489m W	Unspecified Tanks	1938	2170954
Y	489m W	Unspecified Tanks	1914	2194429
AB	489m E	Unspecified Works	1988	2215626
AB	489m E	Unspecified Works	1981	2215626
AB	489m E	Unspecified Works	1974	2200050
AK	489m N	Unspecified Tank	1894	2287640
AK	489m N	Unspecified Tank	1973	2270861
AK	489m N	Unspecified Tank	1955	2225003
Y	489m W	Unspecified Wharf	1948	2247674
Y	491m SW	Unspecified Wharf	1989	2262904
BC	495m SW	Unspecified Wharf	1973	2293892
BC	495m SW	Unspecified Wharf	1955	2293892
Y	495m W	Unspecified Tanks	1967	2214503



ID	Location	Land Use	Date	Group ID
17	496m NW	Unspecified Wharf	1973	2268930
Y	497m SW	Unspecified Wharf	1989	2275545
Y	497m W	Unspecified Tanks	1955	2195746
18	498m E	Railway Sidings	1962	2168796
Y	499m W	Unspecified Tanks	1948	2178487
AB	499m E	Railway Sidings	1988	2169069
AB	499m E	Railway Sidings	1981	2169067
Y	499m SW	Unspecified Wharf	1979	2287651
19	500m NW	Unspecified Works	1894	2291418
AB	500m E	Railway Sidings	1948	2264066

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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

Features are displayed on the Past land use - un-grouped map on [page 49 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1974	396292
A	On site	Unspecified Tank	1951	397111
A	On site	Tanks	1951	386260
A	On site	Tanks	1951	397006
A	On site	Tanks	1951	407615
A	On site	Tanks	1951	396414
A	On site	Tanks	1951	397006
A	On site	Tanks	1951	407615
A	On site	Tanks	1951	386260
A	On site	Unspecified Tank	1951	396292



ID	Location	Land Use	Date	Group ID
A	On site	Tanks	1951	410042
A	On site	Unspecified Tank	1966	366779
A	On site	Tanks	1966	409964
A	On site	Tanks	1966	383688
A	On site	Tanks	1896	395885
A	On site	Unspecified Tank	1980	400221
A	On site	Unspecified Tank	1991	400221
A	On site	Unspecified Tank	1991	400221
A	On site	Tanks	1916	394705
A	On site	Tanks	1916	397625
D	On site	Tanks	1980	394698
D	On site	Tanks	1991	394698
D	On site	Tanks	1991	394698
A	9m SE	Unspecified Tank	1966	366778
E	10m E	Unspecified Tank	1951	390611
E	10m E	Unspecified Tank	1951	389804
E	10m E	Unspecified Tank	1951	385404
A	12m SW	Unspecified Tank	1916	366781
A	14m SW	Unspecified Tank	1974	393711
A	14m SW	Unspecified Tank	1951	393711
A	14m SW	Unspecified Tank	1966	393711
A	14m SW	Unspecified Tank	1951	393711
A	19m SE	Tanks	1916	376783
A	21m NE	Unspecified Tank	1974	389246
A	21m NE	Unspecified Tank	1980	389246
A	21m NE	Unspecified Tank	1991	389246
A	21m NE	Unspecified Tank	1991	389246
A	25m NW	Unspecified Tank	1980	406242



ID	Location	Land Use	Date	Group ID
A	25m NW	Unspecified Tank	1991	406242
A	25m NW	Unspecified Tank	1991	406242
A	28m NW	Unspecified Tank	1896	366784
A	32m W	Unspecified Tank	1991	366808
A	35m NW	Unspecified Tank	1916	366785
A	40m NW	Unspecified Tank	1896	387563
A	40m NW	Unspecified Tank	1916	387563
A	45m NW	Tanks	1991	376755
A	48m NW	Tanks	1974	376717
H	48m E	Unspecified Tank	1916	366776
A	55m NW	Tanks	1896	376754
A	58m N	Unspecified Tank	1974	385299
A	59m N	Unspecified Tank	1980	385299
A	59m N	Unspecified Tank	1991	385299
A	59m N	Unspecified Tank	1991	385299
A	62m NE	Tanks	1980	386727
A	62m NE	Tanks	1991	386727
A	62m NE	Tanks	1991	386727
A	62m NE	Tanks	1974	394474
A	63m NW	Tanks	1991	376718
A	64m NW	Unspecified Tank	1980	388309
A	64m NW	Unspecified Tank	1991	388309
A	64m NW	Unspecified Tank	1991	388309
A	66m NW	Tanks	1980	395623
A	66m NW	Tanks	1991	395623
A	66m NW	Tanks	1991	395623
A	79m N	Unspecified Tank	1980	411604
A	79m N	Unspecified Tank	1991	411604



ID	Location	Land Use	Date	Group ID
A	79m N	Unspecified Tank	1991	411604
A	81m NW	Unspecified Tank	1980	393775
A	81m NW	Unspecified Tank	1991	393775
A	81m NW	Unspecified Tank	1991	393775
A	81m NW	Unspecified Tank	1974	402327
A	85m SW	Unspecified Tank	1896	366782
I	87m E	Gas Works	1971	394235
I	89m E	Gas Works	1979	394235
K	104m E	Tanks	1992	383301
K	105m E	Tanks	1991	383301
K	108m E	Tanks	1991	376784
A	116m NW	Tanks	1980	385076
A	116m NW	Tanks	1991	385076
A	116m NW	Tanks	1991	385076
A	118m NW	Tanks	1980	376716
A	118m N	Tanks	1980	404733
A	118m N	Tanks	1991	404733
A	118m N	Tanks	1991	404733
A	118m N	Tanks	1974	381946
A	118m N	Unspecified Tank	1966	366786
A	119m N	Tanks	1974	401101
A	119m NW	Tanks	1980	400279
A	119m NW	Tanks	1991	400279
A	119m NW	Tanks	1991	400279
A	119m NW	Tanks	1974	395251
A	119m NW	Tanks	1966	394127
K	120m E	Unspecified Tank	1991	382854
K	120m E	Unspecified Tank	1992	382854



ID	Location	Land Use	Date	Group ID
K	120m E	Unspecified Tank	1991	382854
K	120m E	Unspecified Tank	1991	382854
A	120m SE	Tanks	1974	408850
A	120m SE	Tanks	1951	408850
A	120m SE	Tanks	1966	408850
A	120m SE	Tanks	1951	388253
A	122m N	Tanks	1980	398918
A	122m N	Tanks	1991	384223
A	122m N	Tanks	1991	384223
A	126m NW	Tanks	1966	376721
A	127m N	Tanks	1974	408000
A	127m NW	Tanks	1974	381826
A	130m NW	Tanks	1966	376720
A	130m NW	Tanks	1991	383712
A	130m NW	Tanks	1991	383712
A	134m NW	Tanks	1966	376719
A	139m NE	Tanks	1974	393722
A	139m NE	Tanks	1980	393722
A	139m NE	Tanks	1991	393722
A	139m NE	Tanks	1991	393722
A	140m N	Tanks	1916	376756
A	144m N	Unspecified Tank	1951	391133
A	144m N	Unspecified Tank	1951	391133
A	148m NW	Unspecified Tank	1951	394948
A	148m NW	Unspecified Tank	1951	393623
A	158m NW	Unspecified Tank	1974	408046
A	158m NW	Unspecified Tank	1966	408046
A	159m NW	Unspecified Tank	1980	408046



ID	Location	Land Use	Date	Group ID
A	164m SW	Unspecified Tank	1896	384810
A	165m SW	Unspecified Tank	1916	384810
A	178m SW	Unspecified Tank	1916	366783
P	187m NE	Tanks	1974	405889
P	187m NE	Tanks	1980	405889
P	187m NE	Tanks	1991	405889
P	191m NE	Tanks	1982	403093
P	191m NE	Tanks	1982	403093
P	191m NE	Tanks	1990	403093
P	191m NE	Tanks	1991	403093
A	193m NW	Tanks	1974	383987
A	193m NW	Tanks	1982	385106
A	193m NW	Tanks	1982	385106
A	193m NW	Tanks	1990	385106
A	193m NW	Tanks	1991	385106
A	193m NW	Tanks	1991	385106
A	193m S	Unspecified Tank	1951	399159
A	194m S	Unspecified Tank	1951	399159
P	194m NE	Tanks	1974	405889
A	197m N	Tanks	1991	398289
A	197m N	Tanks	1916	376758
C	199m NE	Gas Works	1967	380551
C	199m NE	Gas Works	1968	380552
A	199m N	Tanks	1991	405767
C	200m NE	Gas Works	1982	405486
A	200m N	Tanks	1916	407832
A	202m N	Tanks	1916	376757
A	205m N	Tanks	1968	411229



ID	Location	Land Use	Date	Group ID
A	205m N	Tanks	1974	411229
A	205m N	Unspecified Tank	1967	366787
A	207m NW	Tanks	1974	387811
A	208m N	Tanks	1982	381658
A	208m N	Tanks	1982	381658
A	208m N	Tanks	1990	381658
A	208m N	Tanks	1991	381658
A	208m N	Tanks	1991	376753
A	209m N	Unspecified Tank	1953	399091
A	209m N	Unspecified Tank	1951	386619
A	210m N	Tanks	1974	384332
A	210m NW	Tanks	1968	405432
A	211m NW	Tanks	1974	385039
A	211m NW	Tanks	1967	381789
A	211m N	Tanks	1991	382007
A	212m NW	Tanks	1916	408866
A	214m N	Unspecified Tank	1982	397989
A	214m N	Unspecified Tank	1982	397989
A	214m N	Unspecified Tank	1990	397989
A	214m N	Unspecified Tank	1991	397989
A	214m N	Tanks	1982	399716
A	214m N	Tanks	1982	399716
A	214m N	Tanks	1990	399716
A	214m N	Tanks	1991	399716
A	216m N	Unspecified Tank	1953	389647
A	216m N	Unspecified Tank	1951	389647
A	217m N	Tanks	1982	406408
A	217m N	Tanks	1982	406408



ID	Location	Land Use	Date	Group ID
A	217m N	Tanks	1990	406408
A	217m N	Tanks	1991	406408
A	217m N	Tanks	1968	393455
A	217m N	Tanks	1974	393455
A	217m N	Tanks	1967	387447
A	217m N	Tanks	1982	392929
A	217m N	Tanks	1982	392929
A	217m N	Tanks	1990	392929
A	217m N	Tanks	1991	392929
A	217m N	Tanks	1991	392929
A	218m N	Tanks	1991	407603
A	218m N	Tanks	1968	407603
A	218m N	Tanks	1974	407603
A	218m N	Tanks	1965	407603
A	218m N	Tanks	1967	407603
A	219m N	Unspecified Tank	1896	405228
A	219m N	Unspecified Tank	1916	405228
Q	220m NE	Gas Works	1992	394235
Q	221m NE	Gas Works	1991	394235
Q	221m NE	Gas Works	1991	394235
C	227m NE	Gas Works	1991	400188
C	227m NE	Gas Works	1984	405486
C	227m NE	Gas Works	1991	394235
U	239m NE	Tanks	1991	384147
U	239m NE	Tanks	1992	384147
U	240m NE	Tanks	1971	396353
U	241m NE	Tanks	1979	407705
U	241m NE	Tanks	1985	407705



ID	Location	Land Use	Date	Group ID
U	241m NE	Tanks	1991	407705
U	241m NE	Gasometer	1991	374043
U	241m NE	Unspecified Tank	1982	405654
U	241m NE	Unspecified Tank	1984	405654
U	241m NE	Unspecified Tank	1991	405654
U	241m NE	Unspecified Tank	1991	405654
U	241m NE	Unspecified Tank	1967	394971
U	242m NE	Unspecified Tank	1968	402460
U	242m NE	Unspecified Tank	1991	404858
U	242m NE	Unspecified Tank	1992	404858
U	243m NE	Tanks	1979	385191
U	243m NE	Tanks	1985	385191
U	243m NE	Tanks	1991	385191
U	243m NE	Gasometer	1991	374046
A	256m NW	Chalk Tank	1869	374752
A	269m NW	Chalk Tank	1869	374751
A	272m NW	Unspecified Tank	1896	366811
A	274m N	Chalk Tank	1869	374750
A	276m N	Unspecified Tank	1982	398064
A	276m N	Unspecified Tank	1982	398064
A	276m N	Unspecified Tank	1990	398064
A	276m N	Unspecified Tank	1991	398064
A	276m N	Unspecified Tank	1991	398064
A	280m N	Tanks	1982	384639
A	280m N	Tanks	1982	384639
A	280m N	Tanks	1990	384639
A	280m N	Tanks	1991	384639
A	280m N	Tanks	1991	384639



ID	Location	Land Use	Date	Group ID
A	289m N	Unspecified Tank	1896	366809
A	293m N	Tanks	1982	390362
A	293m N	Tanks	1982	390362
A	293m N	Tanks	1990	390362
A	293m N	Tanks	1991	390362
A	293m N	Tanks	1991	390362
Q	293m E	Unspecified Tank	1991	395498
Q	293m E	Unspecified Tank	1992	395498
Q	294m E	Unspecified Tank	1971	395498
Q	295m E	Unspecified Tank	1979	395498
Q	295m E	Unspecified Tank	1985	395498
Q	295m E	Unspecified Tank	1991	395498
Q	295m E	Unspecified Tank	1991	395498
A	304m NW	Unspecified Tank	1869	366804
Z	305m NE	Gas Works	1985	398608
Z	305m NE	Gas Works	1991	394235
A	307m NW	Chalk Tank	1869	374748
A	307m N	Unspecified Tank	1982	401655
A	307m N	Unspecified Tank	1982	401655
A	307m N	Unspecified Tank	1990	401655
A	307m N	Unspecified Tank	1991	401655
A	307m N	Unspecified Tank	1991	401655
A	308m N	Unspecified Tank	1896	366810
A	308m SW	Unspecified Tank	1896	366795
A	316m NW	Unspecified Tank	1896	366805
A	320m NW	Chalk Tank	1869	374749
A	322m NW	Unspecified Tank	1896	382062
A	322m NW	Unspecified Tank	1869	382062



ID	Location	Land Use	Date	Group ID
A	325m SW	Unspecified Tank	1896	366794
A	325m SW	Unspecified Tank	1896	366792
AC	326m NE	Unspecified Tank	1982	384909
AC	326m NE	Unspecified Tank	1984	384909
AC	326m NE	Unspecified Tank	1991	384909
AC	327m NE	Unspecified Tank	1967	395289
AC	327m NE	Unspecified Tank	1968	384909
AC	327m NE	Unspecified Tank	1991	384909
C	333m NE	Unspecified Tank	1982	382681
C	333m NE	Unspecified Tank	1984	382681
C	333m NE	Unspecified Tank	1991	382681
C	333m NE	Unspecified Tank	1982	389154
C	333m NE	Unspecified Tank	1984	389154
C	333m NE	Unspecified Tank	1991	389154
C	333m NE	Unspecified Tank	1967	387720
C	334m NE	Unspecified Tank	1967	406149
C	334m NE	Unspecified Tank	1991	409863
C	334m NE	Unspecified Tank	1991	403866
C	334m NE	Unspecified Tank	1968	396210
C	334m NE	Unspecified Tank	1968	403866
C	338m NE	Unspecified Tank	1982	408483
C	338m NE	Unspecified Tank	1984	408483
C	338m NE	Unspecified Tank	1991	408483
C	338m NE	Unspecified Tank	1982	408903
C	338m NE	Unspecified Tank	1984	408903
C	338m NE	Unspecified Tank	1991	408903
C	339m NE	Unspecified Tank	1991	408483
C	339m NE	Unspecified Tank	1968	394169



ID	Location	Land Use	Date	Group ID
C	339m NE	Unspecified Tank	1967	385603
C	339m NE	Unspecified Tank	1967	410002
C	339m NE	Unspecified Tank	1968	392949
C	339m NE	Unspecified Tank	1991	404112
A	341m NW	Unspecified Tank	1869	366812
A	343m NW	Tanks	1953	387348
10	344m S	Unspecified Tank	1916	366777
A	344m NW	Tanks	1951	387348
A	347m NW	Tanks	1982	401698
A	347m NW	Tanks	1974	404868
C	348m NE	Unspecified Tank	1967	391731
AE	348m S	Unspecified Tank	1991	366793
C	348m NE	Unspecified Tank	1968	394011
C	349m NE	Unspecified Tank	1991	394011
C	349m NE	Unspecified Tank	1982	395510
C	349m NE	Unspecified Tank	1984	395510
C	349m NE	Unspecified Tank	1991	395510
A	350m NW	Unspecified Tank	1953	409656
A	351m NW	Unspecified Tank	1951	409656
A	359m NW	Tanks	1982	401270
A	359m NW	Tanks	1974	381420
C	375m NE	Unspecified Tank	1982	392674
C	375m NE	Unspecified Tank	1984	392674
C	375m NE	Unspecified Tank	1991	392674
C	375m NE	Unspecified Tank	1991	399553
C	375m NE	Unspecified Tank	1967	394875
C	375m NE	Unspecified Tank	1991	389715
C	375m NE	Unspecified Tank	1968	382097



ID	Location	Land Use	Date	Group ID
C	375m NE	Unspecified Tank	1982	383797
C	375m NE	Unspecified Tank	1984	383797
C	375m NE	Unspecified Tank	1991	383797
C	375m NE	Unspecified Tank	1967	410131
C	375m NE	Unspecified Tank	1968	389715
C	379m NE	Unspecified Tank	1967	384257
C	379m NE	Unspecified Tank	1982	398680
C	379m NE	Unspecified Tank	1984	398680
C	379m NE	Unspecified Tank	1991	398680
C	379m NE	Unspecified Tank	1982	393169
C	379m NE	Unspecified Tank	1984	393169
C	379m NE	Unspecified Tank	1991	393169
C	379m NE	Unspecified Tank	1991	386542
C	379m NE	Unspecified Tank	1991	384896
C	379m NE	Unspecified Tank	1967	398519
C	379m NE	Unspecified Tank	1968	398615
C	379m NE	Unspecified Tank	1968	384896
Z	383m E	Tanks	1991	402896
Z	385m E	Tanks	1971	402896
Z	385m E	Tanks	1979	402896
Z	385m E	Tanks	1985	402896
Z	385m E	Tanks	1991	402896
C	387m NE	Unspecified Tank	1982	393664
C	387m NE	Unspecified Tank	1984	393664
C	387m NE	Unspecified Tank	1991	393664
C	387m NE	Unspecified Tank	1967	387465
C	388m NE	Unspecified Tank	1968	393664
C	388m NE	Unspecified Tank	1991	389199



ID	Location	Land Use	Date	Group ID
A	397m NW	Tanks	1982	383280
A	397m NW	Tanks	1982	383280
A	397m NW	Tanks	1990	383280
A	397m NW	Tanks	1991	383280
A	397m NW	Tanks	1965	411210
A	397m NW	Tanks	1968	383280
A	397m NW	Tanks	1974	383280
A	397m NW	Tanks	1967	383280
AI	399m SE	Unspecified Tank	1985	396332
AI	399m SE	Unspecified Tank	1991	396332
AI	399m SE	Unspecified Tank	1991	396332
AI	400m SE	Unspecified Tank	1992	396332
AI	400m SE	Unspecified Tank	1977	381442
A	403m NW	Tanks	1953	383920
A	403m NW	Tanks	1951	383920
Y	405m W	Tanks	1951	401266
Y	405m W	Tanks	1949	409088
Y	405m W	Tanks	1967	409088
Y	405m W	Tanks	1951	409088
Y	406m W	Tanks	1949	401266
A	406m NW	Tanks	1953	387715
A	407m NW	Tanks	1951	387715
AI	407m SE	Tanks	1951	376782
AI	407m SE	Tanks	-	358952
Y	408m W	Tanks	1896	402224
A	412m NW	Tanks	1991	384183
Y	417m W	Tanks	1951	401382
Y	417m W	Tanks	1949	401382



ID	Location	Land Use	Date	Group ID
Y	417m W	Tanks	1967	401382
Y	417m W	Tanks	1951	401382
Y	417m W	Tanks	1949	405555
A	418m N	Tanks	1991	399839
AN	423m E	Unspecified Tank	1991	385095
AN	424m E	Unspecified Tank	1971	397418
AN	424m E	Unspecified Tank	1979	397259
AN	424m E	Unspecified Tank	1985	397259
AN	424m E	Unspecified Tank	1991	397259
Y	429m W	Tanks	1967	376713
Y	433m W	Tanks	1949	376714
Y	433m W	Tanks	1949	381839
Y	433m W	Tanks	1951	381839
Y	433m W	Tanks	1949	376715
Y	433m W	Tanks	1949	381839
Y	434m W	Tanks	1967	398263
AQ	439m E	Gas Works	1970	394235
AQ	439m E	Gas Works	1988	398608
AQ	439m E	Gas Works	1969	394235
AQ	439m E	Gas Works	1991	394235
AK	439m N	Gas Works	1982	394100
AK	439m N	Gas Works	1982	394100
AK	439m N	Gas Works	1990	394100
AK	439m N	Gas Works	1991	394100
AK	439m N	Gas Works	1991	394100
AK	439m N	Gas Works	1968	393976
AK	439m N	Gas Works	1974	380548
AK	440m N	Gas Works	1951	396962



ID	Location	Land Use	Date	Group ID
AL	441m N	Gas Works	1967	395044
A	443m N	Tanks	1991	394552
Y	443m W	Tanks	1951	411037
Y	444m W	Tanks	1949	411037
Y	444m W	Tanks	1951	411037
Y	445m W	Tanks	1949	411037
Y	446m W	Tanks	1951	407941
Y	446m W	Tanks	1949	407941
Y	446m W	Tanks	1967	410024
Y	446m W	Tanks	1951	407941
Y	447m W	Tanks	1949	407654
Y	447m W	Tanks	1967	407654
Y	447m W	Tanks	1951	407654
Y	447m W	Tanks	1949	405214
Y	448m W	Unspecified Tank	1896	366790
Y	453m W	Tanks	1951	401922
Y	454m W	Tanks	1949	396758
Y	454m W	Tanks	1949	396758
Y	454m W	Tanks	1967	393175
Y	454m W	Tanks	1951	396758
AS	455m NE	Unspecified Tank	1953	366751
AN	455m E	Gasometer	1970	399813
AN	455m E	Unspecified Tank	1988	366767
AG	455m SE	Unspecified Tank	-	358860
AN	455m E	Gasometer	1991	399813
AI	456m SE	Unspecified Tank	1985	391380
AI	456m SE	Unspecified Tank	1991	391380
AI	456m SE	Unspecified Tank	1991	391380



ID	Location	Land Use	Date	Group ID
AI	456m SE	Unspecified Tank	1977	391380
AI	456m SE	Unspecified Tank	1991	391380
AI	456m SE	Unspecified Tank	1992	391380
AT	457m E	Unspecified Tank	1982	404662
AT	457m E	Unspecified Tank	1984	404662
AT	457m E	Unspecified Tank	1991	404662
AT	457m E	Unspecified Tank	1991	404662
AT	457m E	Unspecified Tank	1968	404662
AT	457m E	Unspecified Tank	1967	403350
AV	458m N	Gas Works	1953	408160
AW	458m N	Gas Works	1896	408160
Y	458m W	Unspecified Tank	1967	366791
AY	465m S	Unspecified Tank	1991	366780
Y	466m W	Unspecified Tank	1896	366807
Y	466m W	Tanks	1951	392235
Y	467m W	Tanks	1949	392235
Y	467m W	Tanks	1951	392235
Y	467m W	Tanks	1949	392235
AS	474m NE	Tanks	1953	376919
AK	479m N	Unspecified Tank	1968	392790
AK	479m N	Unspecified Tank	1974	392790
AK	479m N	Unspecified Tank	1982	392790
AK	479m N	Unspecified Tank	1982	392790
AK	479m N	Unspecified Tank	1990	392790
AK	479m N	Unspecified Tank	1991	392790
AK	479m N	Unspecified Tank	1991	392790
BA	480m SE	Unspecified Tank	1985	395611
BA	480m SE	Unspecified Tank	1991	395611



ID	Location	Land Use	Date	Group ID
BA	480m SE	Unspecified Tank	1991	395611
AK	480m N	Unspecified Tank	1967	387330
BA	480m SE	Unspecified Tank	1977	395611
AR	482m NE	Tanks	1953	376924
AB	482m E	Gas Works	1992	394235
AB	482m E	Gas Works	1992	394235
AB	482m E	Gas Works	1971	394235
AB	483m E	Gas Works	1991	394235
AK	483m N	Unspecified Tanks	1896	379231
AK	483m N	Unspecified Tank	1974	366773
AK	484m N	Gasometer	1953	396063
AK	484m N	Gasometer	1982	393075
AK	484m N	Gasometer	1982	393075
AK	484m N	Gasometer	1990	393075
AK	484m N	Gasometer	1991	393075
AK	484m N	Gasometer	1991	393075
Y	485m W	Unspecified Tank	1916	393090
AK	485m N	Gasometer	1968	386429
AK	485m N	Gasometer	1951	386429
AK	485m N	Gasometer	1974	386429
AK	485m N	Unspecified Tank	1965	382239
AR	485m NE	Tanks	1953	376926
AK	485m N	Gasometer	1967	392659
AR	486m NE	Tanks	1953	376925
Y	487m W	Unspecified Tank	1896	402664
AK	487m N	Unspecified Tank	1896	382239
AR	491m NE	Tanks	1953	376922
AR	492m NE	Tanks	1953	376921



ID	Location	Land Use	Date	Group ID
AR	494m NE	Unspecified Tank	1953	366756
Y	494m W	Unspecified Tank	1916	366789
Y	495m W	Tanks	1951	399432
Y	495m W	Tanks	1949	384655
Y	495m W	Tanks	1967	384655
Y	495m W	Tanks	1951	384655
Y	496m W	Tanks	1949	400350
Y	497m W	Tanks	1967	376712
Y	497m W	Tanks	1951	384784
Y	498m W	Tanks	1949	384784
Y	498m W	Tanks	1967	384784
Y	498m W	Tanks	1951	384784
Y	498m W	Tanks	1949	384784
Y	499m W	Unspecified Tank	1951	385810
Y	499m W	Tanks	1951	387487
Y	500m W	Unspecified Tank	1949	385810
Y	500m W	Unspecified Tank	1949	385810
Y	500m W	Unspecified Tank	1967	385810
Y	500m W	Unspecified Tank	1951	385810
Y	500m W	Tanks	1967	383691
Y	500m W	Tanks	1896	394328

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	135
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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 49 >](#)



ID	Location	Land Use	Date	Group ID
A	On site	Electricity Transformer	1974	250813
A	On site	Electricity Transformer	1974	250815
A	On site	Electricity Substation	1980	291917
A	On site	Electricity Substation	1991	291917
A	On site	Electricity Substation	1991	291917
F	1m E	Electricity Substation	1951	257992
F	2m E	Electricity Substation	1951	257992
F	2m E	Electricity Substation	1951	257992
A	7m W	Electricity Transformer	1974	250816
B	31m SW	Electricity Substation	1980	291072
B	31m SW	Electricity Substation	1991	291072
B	31m SW	Electricity Substation	1991	291072
G	46m E	Electricity Substation	1974	260013
G	46m E	Electricity Substation	1980	260013
G	46m E	Electricity Substation	1991	260013
G	46m E	Electricity Substation	1991	260013
A	81m NW	Electricity Transformer	1980	250817
I	87m E	Gas Works	1971	268096
I	89m E	Gas Works	1979	268096
J	92m NE	Electricity Substation	1951	257141
J	93m NE	Electricity Substation	1951	257141
A	95m NW	Electricity Transformer	1974	250818
A	96m NW	Electricity Transformer	1974	265659
A	97m NW	Electricity Transformer	1980	265659
A	97m NW	Electricity Transformer	1991	265659
A	97m NW	Electricity Transformer	1991	265659
L	165m NE	Electricity Substation	1951	280232
L	166m NE	Electricity Substation	1951	271824



ID	Location	Land Use	Date	Group ID
L	166m NE	Electricity Substation	1951	271824
A	189m S	Electricity Substation	1951	286390
A	189m S	Electricity Substation	1951	286390
C	199m NE	Gas Works	1967	286383
C	199m NE	Gas Works	1968	286383
C	200m NE	Gas Works	1982	256723
A	219m N	Electricity Substation	1974	245521
Q	220m NE	Gas Works	1992	286383
Q	221m NE	Gas Works	1991	286383
Q	221m NE	Gas Works	1991	286383
C	227m NE	Gas Works	1991	255910
C	227m NE	Gas Works	1984	256724
C	227m NE	Gas Works	1991	286383
A	233m N	Electricity Substation	1953	262536
A	234m N	Electricity Substation	1951	262536
U	241m NE	Gasometer	1991	251525
U	243m NE	Gasometer	1991	251528
W	263m SE	Electricity Substation	1991	255424
W	263m SE	Electricity Substation	1992	253257
W	267m SE	Electricity Substation	1971	267199
W	268m SE	Electricity Substation	1979	256063
W	268m SE	Electricity Substation	1985	255142
W	268m SE	Electricity Substation	1991	252112
W	268m SE	Electricity Substation	1991	252600
T	295m S	Electricity Substation	1991	291683
T	295m S	Electricity Substation	1991	291683
T	295m S	Electricity Substation	1991	291683
T	295m S	Electricity Substation	1992	291683



ID	Location	Land Use	Date	Group ID
T	295m S	Electricity Substation	1994	291683
A	301m SW	Electricity Substation	1991	269134
A	303m SW	Electricity Substation	1970	286661
Z	305m NE	Gas Works	1985	256727
Z	305m NE	Gas Works	1991	286383
AD	348m N	Electricity Substation	1982	284580
AD	348m N	Electricity Substation	1982	284580
AD	348m N	Electricity Substation	1990	284580
AD	348m N	Electricity Substation	1991	284580
AD	348m N	Electricity Substation	1991	284580
AD	348m N	Electricity Substation	1968	284580
AD	348m N	Electricity Substation	1974	284580
AD	348m N	Electricity Substation	1967	284580
AE	348m S	Electricity Substation	1991	255156
A	395m N	Electricity Substation	1968	259903
A	395m N	Electricity Substation	1974	259903
A	395m N	Electricity Substation	1982	259903
A	395m N	Electricity Substation	1982	259903
A	395m N	Electricity Substation	1990	259903
A	395m N	Electricity Substation	1991	259903
A	395m N	Electricity Substation	1991	259903
A	396m N	Electricity Substation	1967	259903
AH	397m SE	Electricity Substation	1991	274742
AH	397m SE	Electricity Substation	1992	274742
AH	397m SE	Electricity Substation	-	241058
AH	399m SE	Electricity Substation	1985	257525
AH	400m SE	Electricity Substation	1951	257525
AM	422m S	Electricity Substation	1991	279687



ID	Location	Land Use	Date	Group ID
AM	422m S	Electricity Substation	1992	279687
AO	437m SE	Electricity Substation	1977	245514
AQ	439m E	Gas Works	1970	268096
AQ	439m E	Gas Works	1988	256726
AQ	439m E	Gas Works	1969	268096
AQ	439m E	Gas Works	1991	286383
AK	439m N	Gas Works	1982	270561
AK	439m N	Gas Works	1982	270561
AK	439m N	Gas Works	1990	270561
AK	439m N	Gas Works	1991	270561
AK	439m N	Gas Works	1991	270561
AK	439m N	Gas Works	1968	279934
AK	439m N	Gas Works	1974	256897
AK	440m N	Gas Works	1951	292171
AL	441m N	Gas Works	1967	279934
AI	444m SE	Electricity Substation	1951	245513
AI	444m SE	Electricity Substation	-	240198
A	451m N	Electricity Substation	1968	267572
A	452m N	Electricity Substation	1967	287147
AN	455m E	Gasometer	1970	283812
AN	455m E	Gasometer	1991	283812
AV	458m N	Gas Works	1953	276538
AW	458m N	Gas Works	1896	276538
AX	458m S	Electricity Substation	1985	245515
AO	460m SE	Electricity Substation	-	240714
AY	466m S	Electricity Substation	1991	290463
AY	466m S	Electricity Substation	1992	290463
Y	469m W	Electricity Substation	1949	259488



ID	Location	Land Use	Date	Group ID
Y	472m W	Electricity Substation	1951	257770
Y	473m W	Electricity Substation	1951	257770
Y	473m W	Electricity Substation	1949	257770
Y	481m W	Electricity Substation	1989	279263
BA	481m SE	Electricity Substation	1991	289614
BA	481m SE	Electricity Substation	1992	289614
Y	481m W	Electricity Substation	1984	279263
Y	481m W	Electricity Substation	1982	279263
Y	481m W	Electricity Substation	1991	279263
AB	482m E	Gas Works	1992	286383
AB	482m E	Gas Works	1992	286383
AB	482m E	Gas Works	1971	268096
AB	483m E	Gas Works	1991	286383
AK	484m N	Gasometer	1953	266331
AK	484m N	Gasometer	1982	266331
AK	484m N	Gasometer	1982	266331
AK	484m N	Gasometer	1990	266331
AK	484m N	Gasometer	1991	266331
AK	484m N	Gasometer	1991	266331
AK	485m N	Gasometer	1968	266331
AK	485m N	Gasometer	1951	266331
AK	485m N	Gasometer	1974	266331
AK	485m N	Gasometer	1967	284973

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**7**

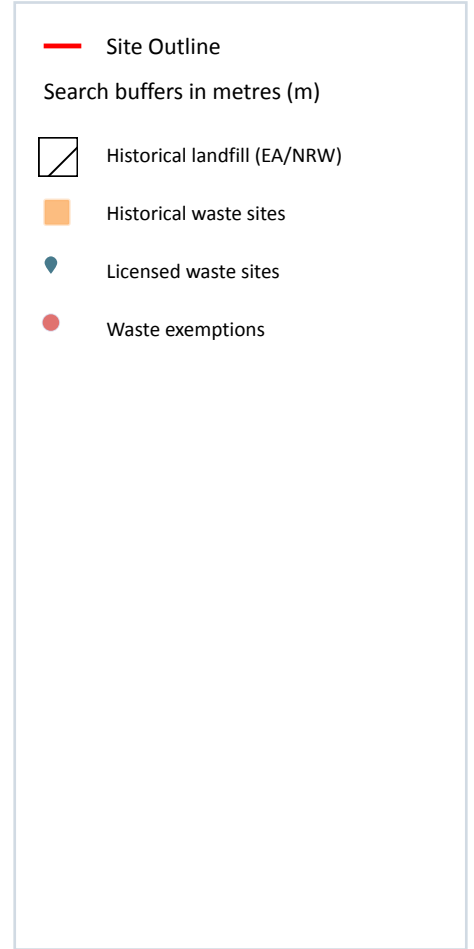
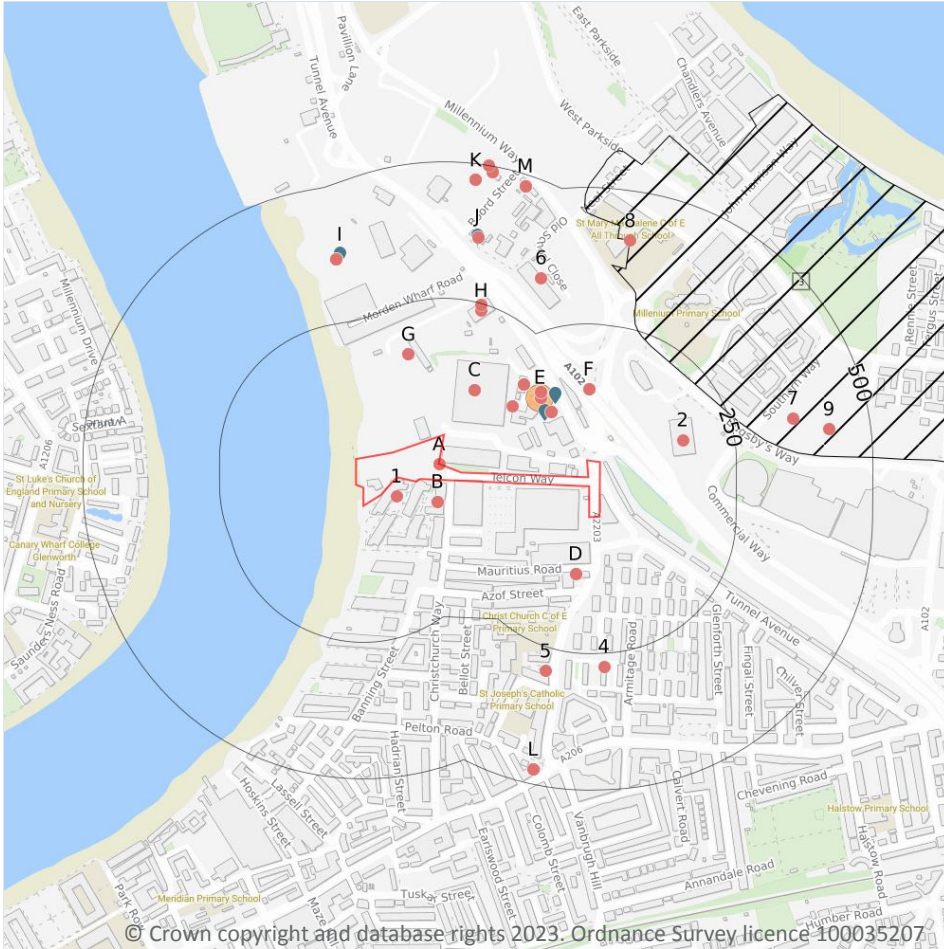
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 49 >](#)

ID	Location	Land Use	Date	Group ID
E	On site	Service Station	1951	84002
E	On site	Service Station	1951	84002
4	177m SE	Garage	1951	73493
AG	429m SE	Garage	1985	73491
A	436m NW	Shipbuilding and Repairing Yard	1974	74035
AX	458m S	Garage	1991	81771
AX	458m S	Garage	1991	81771

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m **0**

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

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

3.2 Historical landfill (BGS records)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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 101 >](#)

ID	Location	Details		
3	221m NE	Site Address: Coalite Site (POR020), Greenwich Licence Holder Address: -	Waste Licence: Yes Site Reference: DL585 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/12/1994 Licence Surrender: -	Operator: - Licence Holder: Port Greenwich Limited First Recorded 31/12/1994 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 101 >](#)

ID	Location	Address	Further Details	Date
E	116m NE	Site Address: Bay Wharf, Tunnel Avenue, Greenwich, LONDON, Central London, SE10 0	Type of Site: Recycling Centre (Conv) Planning application reference: W/93/1365/F Description: Additional use as a recycling centre for the recovery of plastic, glass, aluminium, paper and other inert material from plastic containers and wrappings, drinks cans, bottles, aluminium caps etc and similar by manual and mechanical methods. An application (ref: W/93/1365/F) for Detailed Planning permission was submitted to Greenwich L.B. on 11th October 1993. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	5
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 101 >](#)

ID	Location	Details		
E	115m NE	Site Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Site Address: Associated Reclaimed Oils Limited, 165, Bulking, Treatment and Transfer Facility, Tunnel Avenue, Royal Borough of Greenwich, London, SE10 0PW Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 647056 EPR reference: EA/EPR/WP3930UD Operator: Associated Reclaimed Oils Limited Waste Management licence No: 83237 Annual Tonnage: 999	Issue Date: 22/05/2018 Effective Date: 22/05/2018 Modified: 22/05/2018 Surrendered Date: - Expiry Date: - Cancelled Date: 22/05/2018 Status: Issued
E	132m NE	Site Name: Assoc Reclaimed Oils, Tunnel Ave, Se10 Site Address: Associated Reclaimed Oils, 165, Tunnel Avenue, Greenwich, London, SE10 0PW Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASS001 EPR reference: MP3990EP/V004 Operator: F J & F Haley, R & A D Maryan Waste Management licence No: 83237 Annual Tonnage: 15470	Issue Date: 17/02/1993 Effective Date: - Modified: 11/02/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC



ID	Location	Details		
E	132m NE	Site Name: Assoc Reclaimed Oils, Tunnel Ave, Se10 Site Address: Associated Reclaimed Oils, 165, Tunnel Avenue, Greenwich, London, SE10 0PW Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASS001 EPR reference: EA/EPR/MP3990EP/V004 Operator: F J & F Haley, R & A D Maryan Waste Management licence No: 83237 Annual Tonnage: 15470	Issue Date: 17/02/1993 Effective Date: - Modified: 11/02/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
J	367m N	Site Name: Mobile Plant Site Address: - Correspondence Address: -	Type of Site: Mobile Plant for remediation of land Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OKE007 EPR reference: EA/EPR/ZP3094VD/T001 Operator: O' Keefe Soil Remediation Limited Waste Management licence No: 83317 Annual Tonnage: 0	Issue Date: 06/06/2000 Effective Date: 21/06/2011 Modified: 30/09/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
I	373m NW	Site Name: Tunnel Wharf Site Address: H. Sivyer Transport Limited, Morden Wharf Road, London, SE10 0NU Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 655402 EPR reference: EA/EPR/LP3395VN Operator: H. Sivyer Transport Limited Waste Management licence No: 101878 Annual Tonnage: 400000	Issue Date: 19/06/2012 Effective Date: 19/06/2012 Modified: 19/06/2012 Surrendered Date: - Expiry Date: - Cancelled Date: 19/06/2012 Status: Issued

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



3.7 Waste exemptions

Records within 500m

65

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

Features are displayed on the Waste and landfill map on [page 101](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX353008	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	-	WEX353008	Storing waste exemption	Not on a farm	Storage of waste in a secure place
1	23m SW	Alcatel Submarine Networks Ltd Christchurch Way LONDON SE10 0AG	EPR/PF0638Y M/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
B	41m SW	Part of land lying to site situated at Enderby Wharf, Telcon Way, Greenwich, SE10 0TA, Part of land lying to site situated at Enderby Wharf, Telcon Way, Greenwich, SE10 0TA, Greenwich, SE10 0TA, London, SE10 0TA	WEX258745	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	41m SW	Part of land lying to site situated at Enderby Wharf, Telcon Way, Greenwich, SE10 0TA, Part of land lying to site situated at Enderby Wharf, Telcon Way, Greenwich, SE10 0TA, london, SE10 0TA	WEX258746	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	99m N	PETERBOAT CLOSE, LONDON, SE10 0PX	WEX077427	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	99m N	PETERBOAT CLOSE, LONDON, SE10 0PX	WEX077427	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	99m N	PETERBOAT CLOSE, LONDON, SE10 0PX	WEX077427	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	108m SE	-	WEX354958	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
D	108m SE	-	WEX354958	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	109m NE	165, TUNNEL AVENUE, LONDON, SE10 0PW	WEX000357	Storing waste exemption	Not on a farm	Storage of waste in secure containers
E	109m NE	165, TUNNEL AVENUE, LONDON, SE10 0PW	WEX000357	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	109m NE	165, TUNNEL AVENUE, LONDON, SE10 0PW	WEX000357	Storing waste exemption	Not on a farm	Storage of sludge
E	123m NE	165 Tunnel Avenue Greenwich	EPR/AE5458EA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
F	129m NE	-	WEX275122	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	129m NE	-	WEX279514	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	142m NE	Unit 2 Peterboat Close LONDON SE10 0PX	EPR/SH0370U Z/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	142m NE	Unit 2 Peterboat Close LONDON SE10 0PX	EPR/SH0370U Z/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
E	151m NE	UNIT 2, PETERBOAT CLOSE, LONDON, SE10 0PX	WEX028859	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	151m NE	UNIT 2, PETERBOAT CLOSE, LONDON, SE10 0PX	WEX028859	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
2	156m E	75, BUGSBY'S WAY, LONDON, SE10 0QJ	WEX246352	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	160m N	EM Highway Services Ltd Tunnel Avenue North Greenwich SE10 0PA	EPR/JF0239CA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
G	160m N	EM Highway Services Ltd Tunnel Avenue North Greenwich SE10 0PA	EPR/JF0239CA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
E	164m NE	Unit 1 Peterboat Close LONDON SE10 0PX	EPR/NH0717D G/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in secure containers
E	164m NE	Unit 1 Peterboat Close LONDON SE10 0PX	EPR/NH0717D G/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
E	164m NE	Unit 1 Peterboat Close LONDON SE10 0PX	EPR/NH0717D G/A001	Treating waste exemption	Non- Agricultura l Waste Only	Recovery of scrap metal
E	164m NE	Unit 1 Peterboat Close LONDON SE10 0PX	EPR/NH0717D G/A001	Using waste exemption	Non- Agricultura l Waste Only	Use of depolluted end-of-life vehicles for vehicle parts
E	164m NE	Unit 1 Peterboat Close LONDON SE10 0PX	EPR/NH0717D G/A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste to manufacture finished goods
E	164m NE	Spicers Ltd Peterboat Close LONDON SE10 0PX	EPR/RE5385W P/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in secure containers
E	164m NE	Spicers Ltd Peterboat Close LONDON SE10 0PX	EPR/RE5385W P/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
E	164m NE	Spicers Ltd Peterboat Close LONDON SE10 0PX	EPR/RE5385W P/A001	Treating waste exemption	Non- Agricultura l Waste Only	Preparatory treatments (baling, sorting, shredding etc)
H	236m N	-	WEX299505	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
H	247m N	-	WEX238539	Storing waste exemption	Not on a farm	Storage of waste in a secure place
4	276m SE	COLLINS HOUSE, FLAT 4, ARMITAGE ROAD, LONDON, SE10 0HA	WEX247649	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts



ID	Location	Site	Reference	Category	Sub-Category	Description
5	294m SE	1-27 Blackwall Lane London SE10 0AP	EPR/PH0570SC /A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
6	337m NE	Kier Construction Compound Old School Close London SE10 0PG	EPR/QF0100ZB /A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
7	362m E	-	WEX302461	Using waste exemption	Not on a Farm	Use of waste in construction
I	366m NW	Morden Wharf Morden Wharf Road LONDON SE10 ONU	EPR/RF0605FS /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in secure containers
I	366m NW	Morden Wharf Morden Wharf Road LONDON SE10 ONU	EPR/RF0605FS /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
I	366m NW	Morden Wharf Morden Wharf Road LONDON SE10 ONU	EPR/RF0605FS /A001	Treating waste exemption	Non- Agricultura l Waste Only	Preparatory treatments (baling, sorting, shredding etc)
I	366m NW	Morden Wharf Morden Wharf Road LONDON SE10 ONU	EPR/RF0605FS /A001	Treating waste exemption	Non- Agricultura l Waste Only	Screening and blending of waste
I	366m NW	Morden Wharf Morden Wharf Road LONDON SE10 ONU	EPR/RF0605FS /A001	Treating waste exemption	Non- Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	366m N	1, DREADNOUGHT STREET, LONDON, SE10 0PU	WEX094382	Using waste exemption	Not on a farm	Use of waste in construction
J	366m N	1, DREADNOUGHT STREET, LONDON, SE10 0PU	WEX095060	Using waste exemption	Not on a farm	Use of waste in construction
J	366m N	1, DREADNOUGHT STREET, LONDON, SE10 0PU	WEX098014	Using waste exemption	Not on a farm	Use of waste in construction
8	408m NE	PENINSULA CAMPUS, 105, MILLENNIUM WAY, LONDON, SE10 0NF	WEX046782	Using waste exemption	Not on a farm	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
9	423m E	-	WEX319543	Using waste exemption	Not on a farm	Use of waste in construction
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX032772	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX032772	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX032772	Treating waste exemption	Not on a farm	Sorting mixed waste
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX032772	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX242475	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX242475	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX242475	Treating waste exemption	Not on a farm	Sorting mixed waste
K	469m N	22, MILLENNIUM WAY, LONDON, SE10 0BF	WEX242475	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	474m S	209, TRAFALGAR ROAD, LONDON, SE10 9EQ	WEX098976	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
L	474m S	209, TRAFALGAR ROAD, LONDON, SE10 9EQ	WEX241209	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
M	478m N	Distribution Centre, Millenium Way, Greenwich, London, SE10 0BF	WEX105364	Storing waste exemption	Not on a farm	Storage of waste in secure containers
M	478m N	Distribution Centre, Millenium Way, Greenwich, London, SE10 0BF	WEX105364	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	478m N	Distribution Centre, Millenium Way, Greenwich, London, SE10 0BF	WEX105364	Treating waste exemption	Not on a farm	Sorting mixed waste
M	478m N	Distribution Centre, Millenium Way, Greenwich, London, SE10 0BF	WEX105364	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

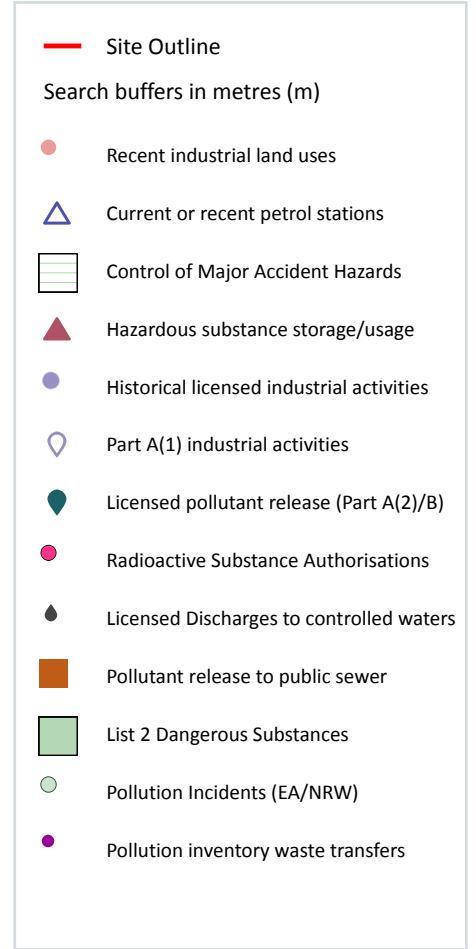
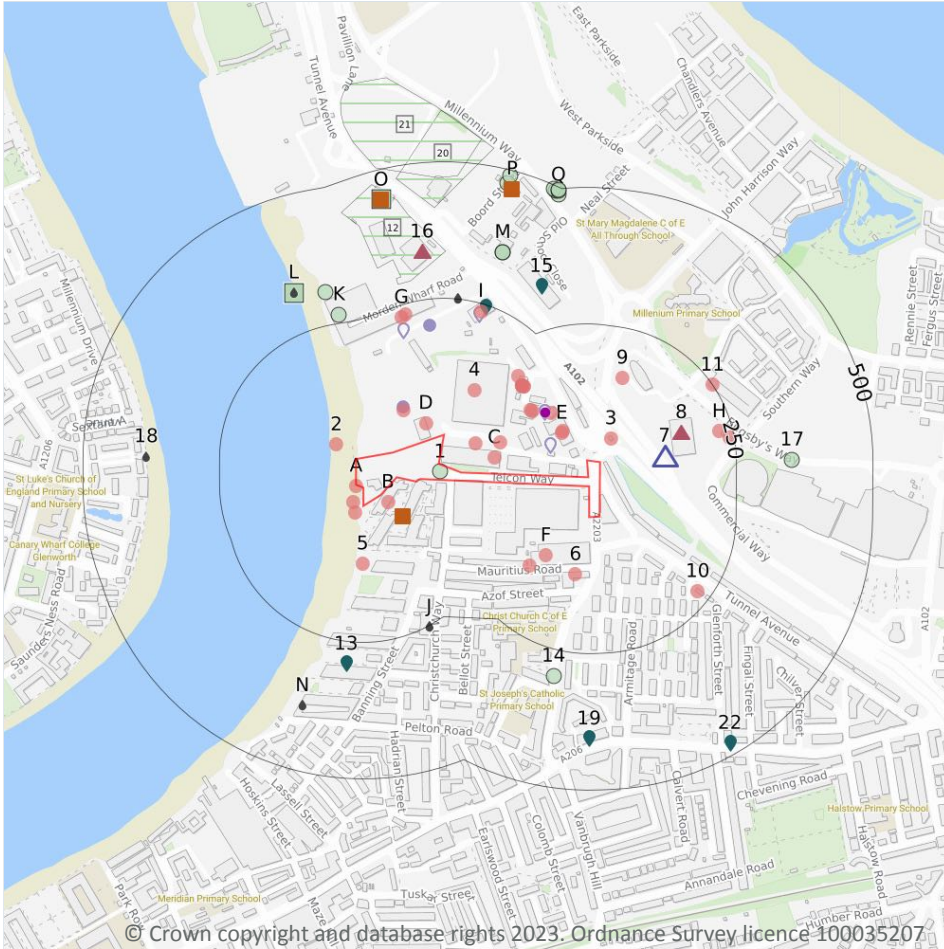


ID	Location	Site	Reference	Category	Sub-Category	Description
K	487m N	the evening standard distribution centre millenium Way london SE10 0BF	EPR/EF0235VP /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	487m N	the evening standard distribution centre millenium Way london SE10 0BF	EPR/EF0235VP /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
K	487m N	the evening standard distribution centre millenium Way london SE10 0BF	EPR/EF0235VP /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
K	499m N	the evening standard distribution centre 22 millenium Way Greenwich SE10 0BF	EPR/LF0431DT /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

36

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 111](#) >

ID	Location	Company	Address	Activity	Category
A	2m W	Jetty	Greater London, SE10	Moorings and Unloading Facilities	Water
B	18m SW	London Waste Clearance Ltd	Apartment 1 Fiador Apartments 21, Telegraph Avenue, Greenwich, Greater London, SE10 0TH	Waste Storage, Processing and Disposal	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
A	19m W	Mast	Greater London, SE10	Telecommunications Features	Infrastructure and Facilities
A	20m W	Enderby's Wharf	Greater London, SE10	Moorings and Unloading Facilities	Water
C	30m E	Systematic Marketing Ltd	City Cross Business Park, Salutation Road, Greenwich, Greater London, SE10 0AT	Electronic Equipment	Industrial Products
D	31m NW	Tank	Greater London, SE10	Tanks (Generic)	Industrial Features
2	45m W	Jetty	Greater London, SE10	Moorings and Unloading Facilities	Water
3	48m E	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities
C	55m NE	City Cross Business Park	Greater London, SE10	Business Parks and Industrial Estates	Industrial Features
C	57m NE	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities
D	67m NW	Tank	Greater London, SE10	Tanks (Generic)	Industrial Features
E	68m E	Chris Hodge Used Quality Used Trucks	Off Tunnel Avenue, Peterboat Close, Greenwich, London, Greater London, SE10 0PW	New Vehicles	Motoring
E	70m E	Stringer	151-161, Tunnel Avenue, Greenwich, Greater London, SE10 0PW	Office and Shop Equipment	Industrial Products
4	99m N	Spicers Ltd	-, Peterboat Close, Greenwich, Greater London, SE10 0PX	Stationery, Stamps, Tags and Labels	Industrial Products
5	106m SW	Piper's Wharf	Greater London, SE10	Moorings and Unloading Facilities	Water
F	106m SE	Meantime Brewing Company	Unit 4-5 Lawrence Trading Estate, Blackwall Lane, Greenwich, Greater London, SE10 0AR	Alcoholic Drinks	Foodstuffs
6	108m SE	Universal Tyres Ltd	87, Blackwall Lane, Greenwich, Greater London, SE10 0AP	Vehicle Parts and Accessories	Motoring
E	109m NE	Enva	165, Tunnel Avenue, Greenwich, Greater London, SE10 0PW	Recycling, Reclamation and Disposal	Recycling Services
E	117m NE	Works	Greater London, SE10	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
E	118m NE	Aspect Press	7, Peterboat Close, Greenwich, Greater London, SE10 0PX	Plate Makers, Print Finishers and Type Setters	IT, Advertising, Marketing and Media Services
F	140m SE	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities
9	160m NE	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities
E	162m NE	A B E	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	Vehicle Components	Industrial Products
E	162m NE	M M E Motorcycles	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	New Vehicles	Motoring
E	164m NE	Allbike Engineering Ltd	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	Scrap Metal Merchants	Recycling Services
E	164m NE	Ray Petty Meccanica	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	164m NE	L C R Motorcycles	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	164m NE	Two Tyres	1, Peterboat Close, Greenwich, Greater London, SE10 0PX	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	174m NE	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities
H	225m E	Gas Governor	Greater London, SE10	Gas Features	Infrastructure and Facilities
10	226m SE	Transmod Solutions	101, Tunnel Avenue, Greenwich, Greater London, SE10 0SE	Vehicle Parts and Accessories	Motoring
G	229m N	Morden Wharf	Greater London, SE10	Moorings and Unloading Facilities	Water
G	232m N	Thrifty Car & Van Rental	Plot 5 Morden Wharf, Tunnel Avenue, London, Greater London, SE10 0PA	Vehicle Hire and Rental	Hire Services
I	236m N	S W Drainage Solutions Ltd	Thames Bank House, Tunnel Avenue, Greenwich, Greater London, SE10 0PA	Civil Engineers	Engineering Services
H	242m E	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
11	250m E	Electricity Sub Station	Greater London, SE10	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Company	Address	LPG	Status
7	118m E	OBSOLETE	Blackwall Lane, North Greenwich, London, Outer London, SE10 0QQ	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.



4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

3

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 111 >](#)

ID	Location	Company	Address	Operational status	Tier
12	288m N	Brenntag UK Limited	Brenntag UK Limited, Greenwich, Tunnel Avenue, London, Greater London, SE10 0QE	Current COMAH Site	COMAH Lower Tier Operator
20	416m N	British Gas	British Gas, East Greenwich Works, Blackwell Lane, Greenwich	Historical NIHHS Site	-
21	471m N	Southern Gas Networks Plc	Southern Gas Networks Plc, East Greenwich Holder Station, Blackwell Lane, London, Greater London, SE10 0PH	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Details	
8	158m E	Application reference number: 03/2843/HS Application status: Approved Application date: 27/11/2003 Address: Univar Ltd, 75, Bugsbys Way, Greenwich, London, England, SE10 0QD	Details: Hazardous substances consent for a reduction in the consent for previously granted in the deemed consent 13/10/1999 ref 99/2117/HS Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
16	337m N	Application reference number: 12/1247/H Application status: Approved Application date: 02/08/2012 Address: Brenntag (UK) Ltd, 215, Tunnel Avenue, East Greenwich, London, England, SE10 0QE	Details: Consent for the storage of hazardous substances. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

7

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

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Details	
D	72m NW	Operator: Tunnel Refineries Ltd Address: Thames Bank House, Tunnel Avenue, London, SE10 0PA Process: Acid Processes Permit Number: AM2611	Original Permit Number: IPCAPP Date Approved: 27-6-1994 Effective Date: 11-7-1994 Status: Revoked
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: AJ2992	Original Permit Number: IPCAPP Date Approved: 31-1-1994 Effective Date: 31-1-1994 Status: Superseded By Variation
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: AN2498	Original Permit Number: IPCMINVAR Date Approved: 6-6-1994 Effective Date: 6-6-1994 Status: Superseded By Variation
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: AU9365	Original Permit Number: IPCMAJVAR Date Approved: 17-4-1996 Effective Date: 22-4-1996 Status: Superseded By Variation



ID	Location	Details	
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: BC4931	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: BD5089	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
G	202m N	Operator: Dalkia Utilities Services Plc Address: Tunnel Refineries, Tunnel Avenue, Greenwich, London, SE10 0PA Process: Combustion Processes Permit Number: BX6472	Original Permit Number: IPCMINVAR Date Approved: 10-3-2005 Effective Date: 10-3-2005 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

24

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 111 >](#)

ID	Location	Details	
E	55m E	Operator: Associated Reclaimed Oils Limited Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility EPR/WP3930UD Process: ASSOCIATED PROCESS Permit Number: SP3337ES Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 21/01/2014 Effective Date: 21/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
E	55m E	Operator: Associated Reclaimed Oils Limited Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility EPR/WP3930UD Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: SP3337ES Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 21/01/2014 Effective Date: 21/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
E	55m E	Operator: Associated Reclaimed Oils Limited Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: SP3337ES Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 21/01/2014 Effective Date: 21/01/2014 Last date noted as effective: 21/03/2023 Status: Superseded
E	55m E	Operator: Associated Reclaimed Oils Limited Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: WP3930UD Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 10/10/2007 Effective Date: 10/10/2007 Last date noted as effective: 21/03/2023 Status: Superseded
E	55m E	Operator: Associated Reclaimed Oils Limited Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: WP3930UD Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 10/10/2007 Effective Date: 10/10/2007 Last date noted as effective: 21/03/2023 Status: Superseded
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: ASSOCIATED PROCESS Permit Number: YP3736JR Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 21/03/2023 Status: Effective
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: YP3736JR Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: YP3736JR Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 21/03/2023 Status: Effective
E	115m NE	Operator: Associated Reclaimed Oils Ltd Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility EPR/WP3930UD Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: WP3135WV Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 12/01/2015 Effective Date: 12/01/2015 Last date noted as effective: 21/03/2023 Status: Superseded
E	115m NE	Operator: Associated Reclaimed Oils Ltd Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility EPR/WP3930UD Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: WP3135WV Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 12/01/2015 Effective Date: 12/01/2015 Last date noted as effective: 21/03/2023 Status: Superseded
E	115m NE	Operator: Associated Reclaimed Oils Ltd Installation Name: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility EPR/WP3930UD Process: ASSOCIATED PROCESS Permit Number: WP3135WV Original Permit Number: WP3930UD	EPR Reference: - Issue Date: 12/01/2015 Effective Date: 12/01/2015 Last date noted as effective: 21/03/2023 Status: Superseded
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: WP3930UD Original Permit Number: WP3930UD	EPR Reference: EPR/WP3930UD Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: WP3930UD Original Permit Number: WP3930UD	EPR Reference: EPR/WP3930UD Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 25/05/2023 Status: Effective
E	115m NE	Operator: ASSOCIATED RECLAIMED OILS LIMITED Installation Name: Associated Reclaimed oils Waste Oil and Garage Waste Treatment and Transfer Facility Process: ASSOCIATED PROCESS Permit Number: WP3930UD Original Permit Number: WP3930UD	EPR Reference: EPR/WP3930UD Issue Date: 22/05/2018 Effective Date: 22/05/2018 Last date noted as effective: 25/05/2023 Status: Effective
G	204m N	Operator: ENERGY 10 GREENWICH LIMITED Installation Name: Morden Wharf Pyrolysis Facility EPR/UP3031VL Process: THE ACTIVITY OF MAKING CHARCOAL Permit Number: UP3031VL Original Permit Number: UP3031VL	EPR Reference: EPR/UP3031VL Issue Date: 13/12/2017 Effective Date: 13/12/2017 Last date noted as effective: 25/05/2023 Status: Revoked
G	204m N	Operator: ENERGY 10 GREENWICH LIMITED Installation Name: Morden Wharf Pyrolysis Facility EPR/UP3031VL Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: UP3031VL Original Permit Number: UP3031VL	EPR Reference: EPR/UP3031VL Issue Date: 13/12/2017 Effective Date: 13/12/2017 Last date noted as effective: 25/05/2023 Status: Revoked
G	204m N	Operator: ENERGY 10 GREENWICH LIMITED Installation Name: Morden Wharf Pyrolysis Facility EPR/UP3031VL Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES Permit Number: UP3031VL Original Permit Number: UP3031VL	EPR Reference: EPR/UP3031VL Issue Date: 13/12/2017 Effective Date: 13/12/2017 Last date noted as effective: 25/05/2023 Status: Revoked



ID	Location	Details	
G	204m N	Operator: ENERGY 10 GREENWICH LIMITED Installation Name: Morden Wharf Pyrolysis Facility EPR/UP3031VL Process: GASIFICATION, LIQUIFAC. AND REFINING; ANY PYROLYSIS HEAT TREATMENT ETC OF COAL CARBONACEOUS MATERIAL ETC (UNLESS COAL DRYING/MAKING CHARCOAL)NISATION, DISTILLATION AND OTHER PROCESSES Permit Number: UP3031VL Original Permit Number: UP3031VL	EPR Reference: EPR/UP3031VL Issue Date: 13/12/2017 Effective Date: 13/12/2017 Last date noted as effective: 25/05/2023 Status: Revoked
I	229m N	Operator: GREENWITCH LIMITED Installation Name: The Refinery, Greenwich Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: XP3430BV Original Permit Number: XP3430BV	EPR Reference: EPR/XP3430BV Issue Date: 19/06/2012 Effective Date: 19/06/2012 Last date noted as effective: 25/05/2023 Status: Surrendered
I	229m N	Operator: GREENWITCH LIMITED Installation Name: The Refinery, Greenwich Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: XP3430BV Original Permit Number: XP3430BV	EPR Reference: EPR/XP3430BV Issue Date: 19/06/2012 Effective Date: 19/06/2012 Last date noted as effective: 25/05/2023 Status: Surrendered
I	229m N	Operator: Greenwich Limited Installation Name: The Refinery, Greenwich Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: UP3632CJ Original Permit Number: XP3430BV	EPR Reference: - Issue Date: - Effective Date: 19/06/2012 Last date noted as effective: 21/03/2023 Status: Surrender Effective
I	229m N	Operator: Syral UK Limited Installation Name: The Refinery, Greenwich Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: RP3535CQ Original Permit Number: XP3430BV	EPR Reference: - Issue Date: 24/02/2012 Effective Date: 24/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
I	229m N	Operator: Greenwich Limited Installation Name: The Refinery, Greenwich Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: UP3632CJ Original Permit Number: XP3430BV	EPR Reference: - Issue Date: - Effective Date: 19/06/2012 Last date noted as effective: 21/03/2023 Status: Surrender Effective
I	229m N	Operator: Syral UK Limited Installation Name: The Refinery, Greenwich Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: RP3535CQ Original Permit Number: XP3430BV	EPR Reference: - Issue Date: 24/02/2012 Effective Date: 24/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded



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

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

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Address	Details	
I	245m N	Syral UK Ltd, The Refinery, Tunnel Avenue, SE10 OPA	Process: Waste Water Processes; CHP Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
13	291m SW	Tarmac Quarry Products, Granite Wharf, Banning St, SE10 ONR	Process: Roadstone Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
15	325m NE	Greenwich Energy Centre, Land off Millenium Way, Plot M0401, Greenwich Peninsula, Greenwich	Process: Combustion & Incineration Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
19	405m SE	Greenwich Dry Cleaners, 25 Woolwich Road, Greenwich, London, SE10 ORA	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
22	478m SE	Maritime Serv Station, Woolwich Rd, London, SE10 ORF	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 111 >](#)



ID	Location	Address	Details	
B	56m SW	Alcatel-lucent Submarine Networks Ltd, Christchurch Way, Greenwich, London, SE10 0AG	Operator: Alcatel-lucent Submarine Networks Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AX4076 Date of approval: 02/04/2009	Effective from: 30/04/2009 Last date of update: 23/01/2013 Status: Effective
B	56m SW	Alcatel-lucent Submarine Networks Ltd, Christchurch Way, Greenwich, London, SE10 0AG	Operator: Alcatel-lucent Submarine Networks Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AX4076 Date of approval: 18/06/1997	Effective from: 01/07/1997 Last date of update: 10/04/2013 Status: Superseded By Variation
B	56m SW	Alcatel-lucent Submarine Networks Ltd, Christchurch Way, Greenwich, London, SE10 0AG	Operator: Alcatel-lucent Submarine Networks Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AX4076 Date of approval: 08/09/1997	Effective from: 01/10/1997 Last date of update: 10/04/2013 Status: Superseded By Variation
B	56m SW	Alcatel-lucent Submarine Networks Ltd, Christchurch Way, Greenwich, London, SE10 0AG	Operator: Alcatel-lucent Submarine Networks Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AX4076 Date of approval: 19/07/1999	Effective from: 19/07/1999 Last date of update: 10/04/2013 Status: Superseded By Variation
B	56m SW	Alcatel-lucent Submarine Networks Ltd, Christchurch Way, Greenwich, London, SE10 0AG	Operator: Alcatel-lucent Submarine Networks Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AX4076 Date of approval: 03/06/2003	Effective from: 01/07/2003 Last date of update: 10/04/2013 Status: Superseded By Variation

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

4.13 Licensed Discharges to controlled waters

Records within 500m

10

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 111 >](#)



ID	Location	Address	Details	
D	72m NW	TUNNEL GLUCOSE REFINERIES LTD, TUNN, TUNNEL GLUCOSE REFINERIES LTD, T, UNNEL AVENUE, GREENWICH, SE10	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTCU.0257 Permit Version: 1 Receiving Water: GRAVEL STRATA	Status: REVOKED - UNSPECIFIED Issue date: 24/08/1966 Effective Date: 24/08/1966 Revocation Date: 19/06/1991
I	251m N	TUNNEL AVENUE, GREENWICH, LONDON, S, TUNNEL AVENUE, GREENWICH, LONDON, SE10 OPA	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0402 Permit Version: 1 Receiving Water: BENDIX DITCH	Status: REVOKED - UNSPECIFIED Issue date: 12/10/1981 Effective Date: 12/10/1981 Revocation Date: 15/02/1991
I	251m N	TUNNEL AVENUE, GREENWICH, LONDON, S, TUNNEL AVENUE, GREENWICH, LONDON, SE10 OPA	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0401 Permit Version: 1 Receiving Water: BENDIX DITCH	Status: REVOKED - UNSPECIFIED Issue date: 12/10/1981 Effective Date: 12/10/1981 Revocation Date: 15/02/1991
J	251m S	GREENWICH WHARF, BANNING STREET, GREENWICH, LONDON, SE10 OAP	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: NPSWQD009553 Permit Version: 2 Receiving Water: GROUNDWATER	Status: VARIED UNDER EPR 2010 Issue date: 06/12/2012 Effective Date: 06/12/2012 Revocation Date: -
J	251m S	GREENWICH WHARF, BANNING STREET, GREENWICH, LONDON, SE10 OAP	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: NPSWQD009553 Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 19/02/2010 Effective Date: 19/02/2010 Revocation Date: 05/12/2012
L	325m NW	TUNNEL REFINERIES, TUNNEL AVENUE, GREENWICH, LONDON	Effluent Type: UNSPECIFIED Permit Number: CNTM.1664 Permit Version: 1 Receiving Water: TIDAL R.THAMES:BLACKWALL REACH	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 09/12/1994 Effective Date: 09/12/1994 Revocation Date: 24/08/1998
L	325m NW	TUNNEL REFINERIES, TUNNEL AVENUE, GREENWICH, LONDON	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1664 Permit Version: 2 Receiving Water: TIDAL R.THAMES:BLACKWALL REACH	Status: SURRENDERED UNDER EPR 2010 Issue date: 09/12/1994 Effective Date: 25/08/1998 Revocation Date: 18/07/2012
N	382m SW	GREENWICH WHARF, BANNING STREET, GREENWICH, LONDON, SE10 OAP	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: NPSWQD009553 Permit Version: 2 Receiving Water: GROUNDWATER	Status: VARIED UNDER EPR 2010 Issue date: 06/12/2012 Effective Date: 06/12/2012 Revocation Date: -



ID	Location	Address	Details	
N	382m SW	GREENWICH WHARF, BANNING STREET, GREENWICH, LONDON, SE10 OAP	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: NPSWQD009553 Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 19/02/2010 Effective Date: 19/02/2010 Revocation Date: 05/12/2012
18	384m W	PYLMOUTH WHARF, SAUNDERSNESS ROAD, PYLMOUTH WHARF, SAUNDERSNESS ROA, D, ISLE OF DOGS, LONDON E14	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0004 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 19/03/1985 Effective Date: 19/03/1985 Revocation Date: 03/12/1991

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	3
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Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Address	Details	
B	56m SW	ALCATEL-LUCENT SUBMARINE NETWORKS LTD, CHRISTCHURCH WAY, CHRISTCHURCH WAY, GREENWICH, LONDON, SE10 0AG	Permission reference: BA0692 Local Authority: LONDON BOROUGH OF GREENWICH First received date: 01/06/2001	Last received date: 01/01/2018 Status: DEAD (APPLICATION)
O	445m N	BRENNTAG UK LTD, 215 TUNNEL AVENUE, 215 TUNNEL AVENUE, GREENWICH, LONDON, SE10 0QW	Permission reference: CD2084 Local Authority: LONDON BOROUGH OF GREENWICH First received date: 05/01/2009	Last received date: 01/01/2018 Status: RECEIVED
P	467m N	EDMUND NUTTALL LTD, PORT GREENWICH MILLENNIUM SITE, BLACKWALL LANE, GREENWICH, LONDON, SE10 0AY	Permission reference: AW4062 Local Authority: LONDON BOROUGH OF GREENWICH First received date: 01/07/2010	Last received date: 01/01/2018 Status: DEAD (APPLICATION)

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



4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
L	326m NW	Tunnel Refineries, Greenwich	Active	Thames Estuary	Boron, Copper, Iron, Zinc
O	447m N	Albion Chemicals Distribution	Not Active	-	-

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

14

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

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID	Location	Details	
1	On site	Incident Date: 17/10/2019 Incident Identification: 1746702 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
K	266m NW	Incident Date: 12/02/2008 Incident Identification: 563398 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

ID	Location	Details	
14	297m SE	Incident Date: 07/09/2001 Incident Identification: 59946 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	310m NW	Incident Date: 14/11/2002 Incident Identification: 120863 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
M	351m N	Incident Date: 12/07/2001 Incident Identification: 56275 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
M	351m N	Incident Date: 23/07/2001 Incident Identification: 56286 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
17	351m E	Incident Date: 10/05/2002 Incident Identification: 87942 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
P	475m N	Incident Date: 18/07/2001 Incident Identification: 56316 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
Q	486m N	Incident Date: 20/07/2001 Incident Identification: 56297 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
P	490m N	Incident Date: 26/07/2001 Incident Identification: 56324 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
Q	492m N	Incident Date: 27/06/2001 Incident Identification: 56308 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)



ID	Location	Details	
Q	493m N	Incident Date: 09/09/2001 Incident Identification: 56488 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
Q	494m N	Incident Date: 31/07/2001 Incident Identification: 56329 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
Q	495m N	Incident Date: 01/08/2001 Incident Identification: 56494 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.20 Pollution inventory waste transfers

Records within 500m	1
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 111 >](#)

ID: E, Location: 115m NE, Permit: WP3930UD
 Operator: Associated Reclaimed Oils Limited
 Activity: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1



Address: Associated Reclaimed Oils Bulking, Treatment and Transfer Facility 165 Tunnel Avenue Royal Borough of Greenwich SE10 0PW

Sector Hazardous Waste, Sub-sector: Hazardous Waste

Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	14.998	absolute value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	7460.721	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	100.201	absolute value	13 07 03	other fuels (including mixtures)	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	174.268	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	315.608	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	53.42	absolute value	16 01 13	brake fluids	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	240.218	absolute value	16 01 14	antifreeze fluids containing dangerous substances	Yes
R4	Recycling/reclamation of metals and metal compounds	121.6421	absolute value	16 06 01	lead batteries	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	106.065	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
R4	Recycling/reclamation of metals and metal compounds	1477.504	absolute value	16 01 07	oil filters	Yes
R2	Solvent reclamation/regeneration	1.385	absolute value	11 01 13	degreasing wastes containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	65.55	absolute value	13 05 07	oily water from oil/water separators	Yes

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

4.21 Pollution inventory radioactive waste

Records within 500m

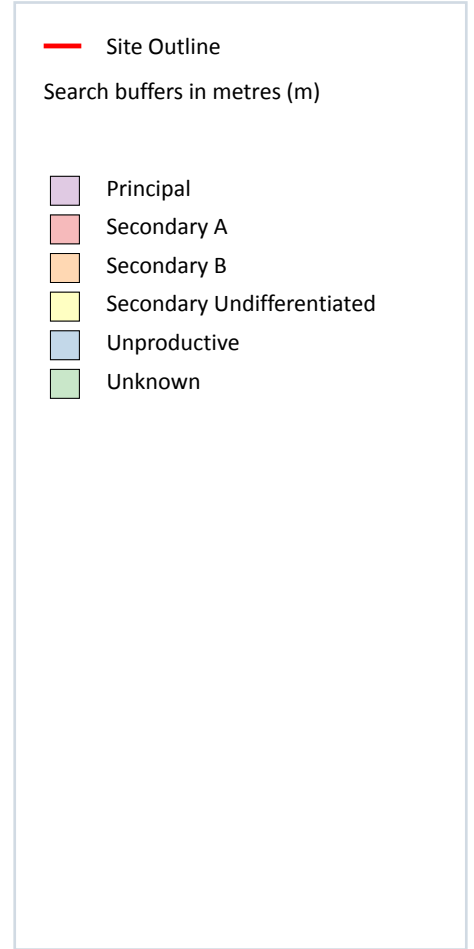
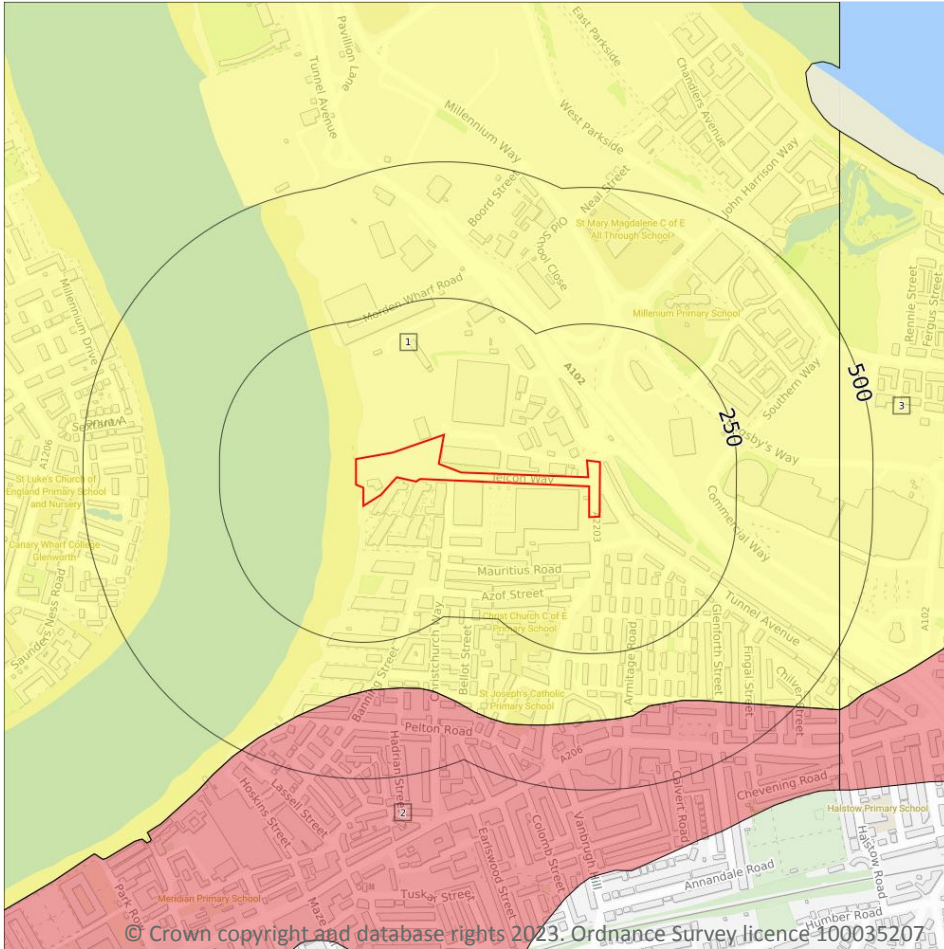
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 131](#) >

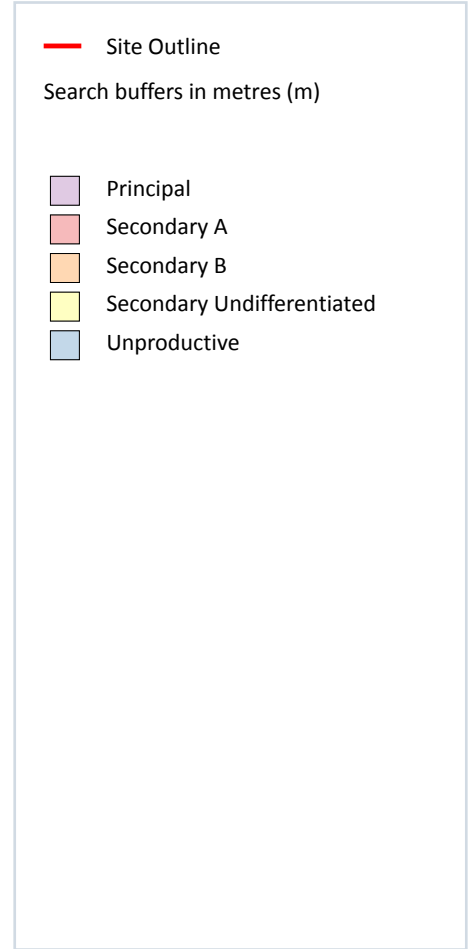
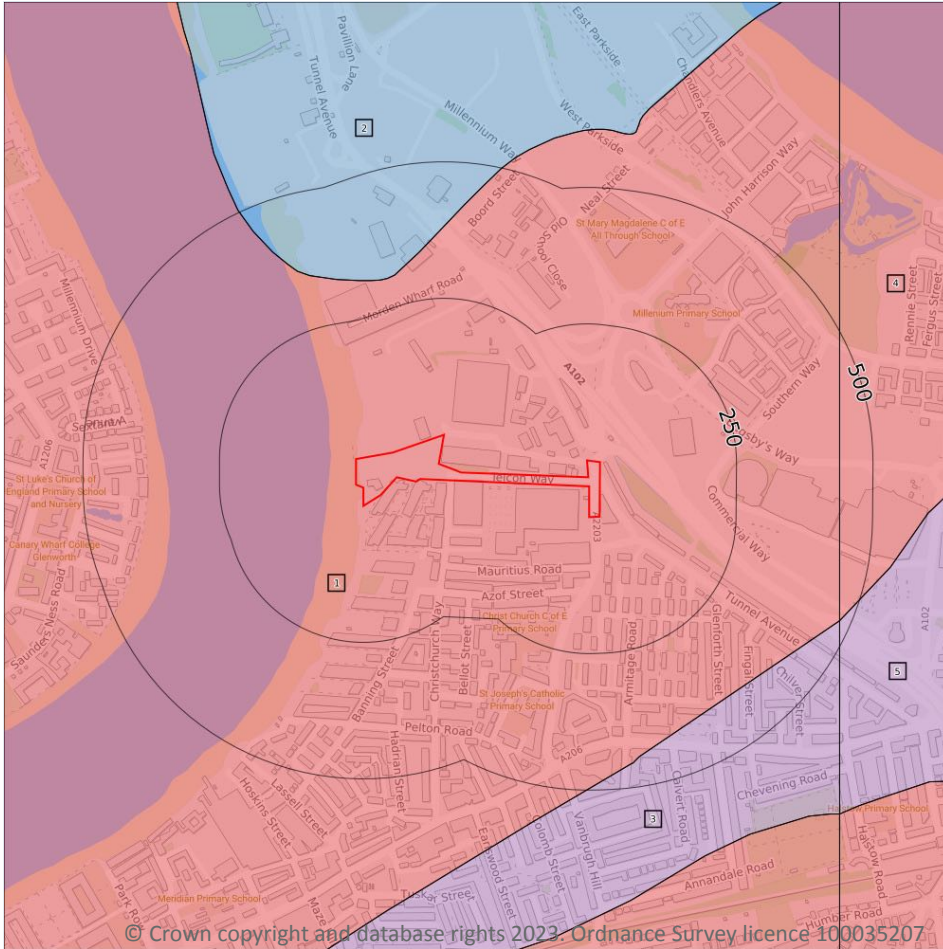
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	337m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	439m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

5

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 133 >](#)

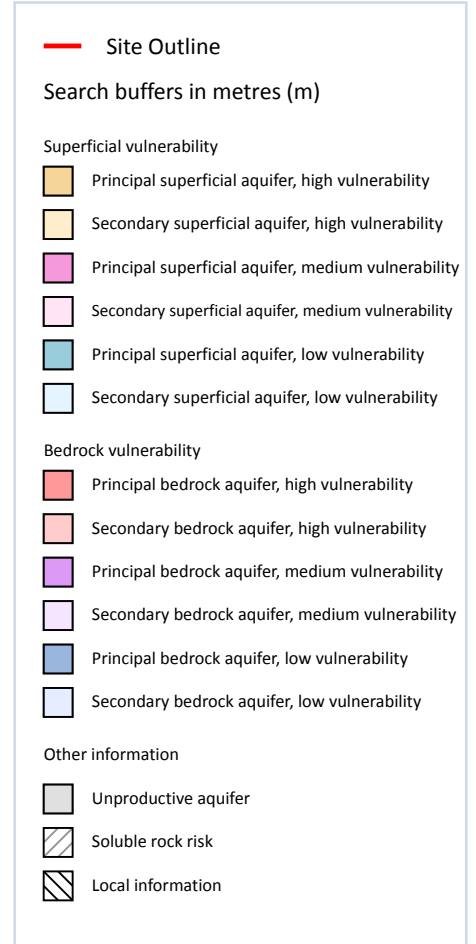
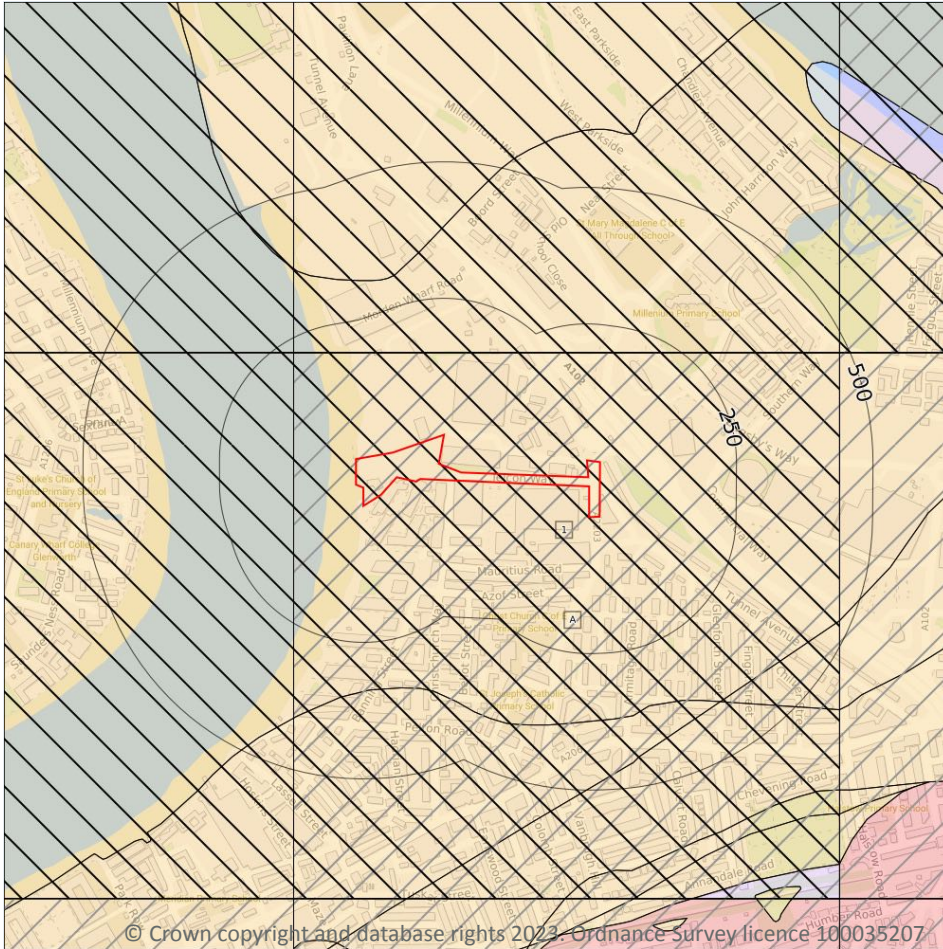
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	305m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	405m SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	439m E	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
5	479m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

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 135 >](#)



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

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

5.4 Groundwater vulnerability- soluble rock risk

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	1.0%

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

5.5 Groundwater vulnerability- local information

Records on site	1
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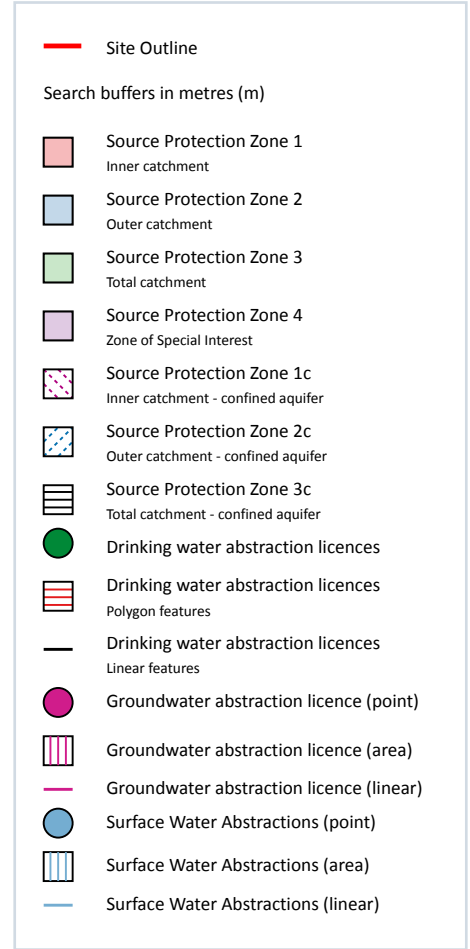
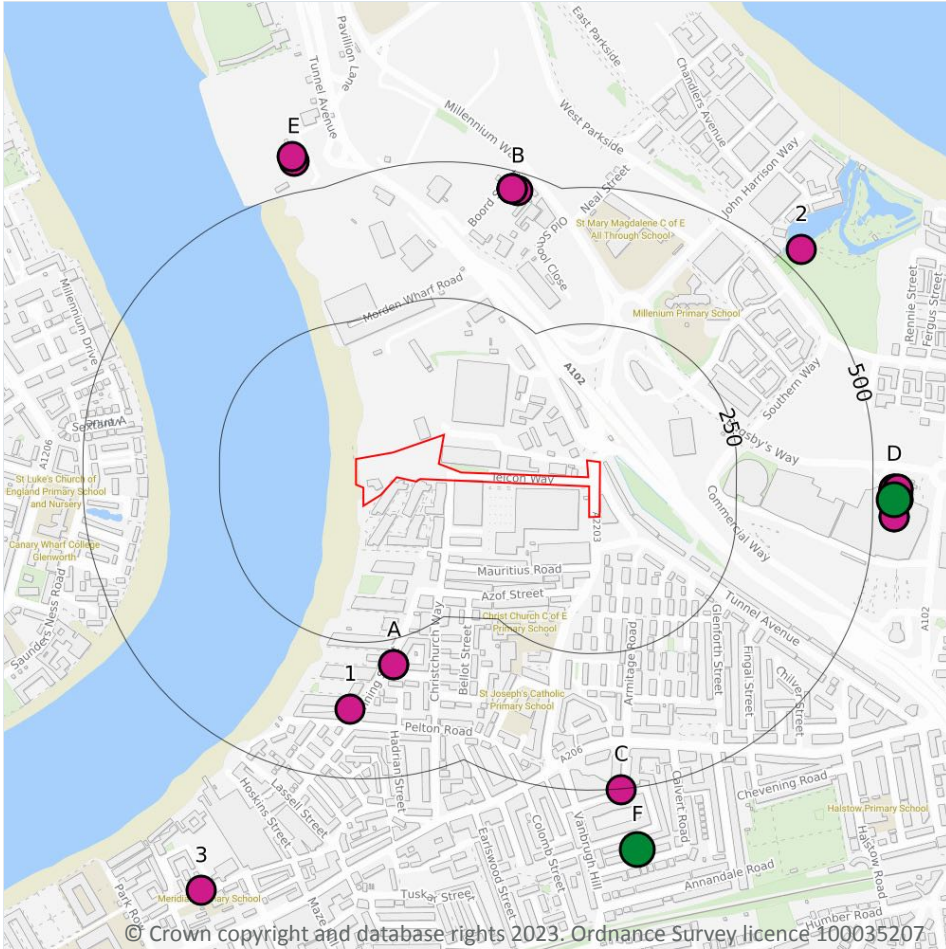
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

84

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 137](#) >

ID	Location	Details	
A	296m S	Status: Active Licence No: TH/039/0044/023 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GREENWICH WHARF BH3 Data Type: Point Name: L & Q Energy Limited Easting: 539184 Northing: 178428	Annual Volume (m ³): 275940 Max Daily Volume (m ³): 756 Original Application No: NPS/WR/031507 Original Start Date: 20/09/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 20/09/2019 Version End Date: -
A	296m S	Status: Historical Licence No: TH/039/0044/007 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GREENWICH WHARF BH3 Data Type: Point Name: London & Regional Properties Limited Easting: 539184 Northing: 178428	Annual Volume (m ³): 551880 Max Daily Volume (m ³): 1512 Original Application No: - Original Start Date: 20/04/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 10/07/2014 Version End Date: -
1	373m SW	Status: Historical Licence No: TH/039/0044/007 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GREENWICH WHARF BOREHOLE BH2 Data Type: Point Name: London & Regional Properties Limited Easting: 539104 Northing: 178347	Annual Volume (m ³): 551880 Max Daily Volume (m ³): 1512 Original Application No: - Original Start Date: 20/04/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 10/07/2014 Version End Date: -
B	466m N	Status: Active Licence No: TH/039/0044/016 Details: Lake & Pond Throughflow Direct Source: THAMES GROUNDWATER Point: BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: The Land Restoration Trust Easting: 539411 Northing: 179296	Annual Volume (m ³): 19800 Max Daily Volume (m ³): 170 Original Application No: NPS/WR/033565 Original Start Date: 13/08/2018 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 24/03/2021 Version End Date: -
B	467m N	Status: Historical Licence No: 28/39/44/0040 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BLACKWALL LANE / BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539400 Northing: 179300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -



ID	Location	Details	
B	467m N	Status: Historical Licence No: 28/39/44/0040 Details: Make-Up or Top Up Water Direct Source: THAMES GROUNDWATER Point: BLACKWALL LANE / BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539400 Northing: 179300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -
B	467m N	Status: Historical Licence No: 28/39/44/0049 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: The Land Trust Easting: 539400 Northing: 179300	Annual Volume (m ³): 80000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 09/02/2005 Expiry Date: 31/03/2016 Issue No: 3 Version Start Date: 10/07/2014 Version End Date: -
B	467m N	Status: Historical Licence No: 28/39/44/0049 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: The Land Trust Easting: 539400 Northing: 179300	Annual Volume (m ³): 80000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 09/02/2005 Expiry Date: 31/03/2016 Issue No: 3 Version Start Date: 10/07/2014 Version End Date: -
C	501m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, - BOREHOLE 'A' Data Type: Point Name: GREENWICH HEALTHCARE TRUST Easting: 539600 Northing: 178200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 14/06/2000 Version End Date: -
2	536m NE	Status: Active Licence No: TH/039/0044/016 Details: Lake & Pond Throughflow Direct Source: THAMES GROUNDWATER Point: SOUTHERN PARK BOREHOLE Data Type: Point Name: The Land Restoration Trust Easting: 539930 Northing: 179189	Annual Volume (m ³): 19800 Max Daily Volume (m ³): 170 Original Application No: NPS WR/033565 Original Start Date: 13/08/2018 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 24/03/2021 Version End Date: -



ID	Location	Details	
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178730	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178730	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -



ID	Location	Details	
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178730	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0038 Details: Make-Up or Top Up Water Direct Source: THAMES GROUNDWATER Point: SAINSBURY'S, MILLENIUM VILLAGE - BOREHOLE Data Type: Point Name: J SAINSBURY LTD Easting: 540100 Northing: 178700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0038 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: SAINSBURY'S, MILLENIUM VILLAGE - BOREHOLE Data Type: Point Name: J SAINSBURY LTD Easting: 540100 Northing: 178700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -
D	545m E	Status: Historical Licence No: TH/039/0044/011 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STRATA COMPRISING OF CHALK - POINT 'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540106 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
D	545m E	Status: Historical Licence No: TH/039/0044/011 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: STRATA COMPRISING OF CHALK - POINT 'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540106 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -



ID	Location	Details	
D	545m E	Status: Historical Licence No: TH/039/0044/011 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: STRATA COMPRISING OF CHALK - POINT 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540106 Northing: 178731	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
D	545m E	Status: Historical Licence No: TH/039/0044/011 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: STRATA COMPRISING OF CHALK - POINT 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540106 Northing: 178731	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
E	556m NW	Status: Historical Licence No: 28/39/44/0047 Details: Process Water Direct Source: THAMES GROUNDWATER Point: VICTORIA DEEP WATER TERMINAL GREENWICH SE10- BOREHOLE Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 539000 Northing: 179350	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: 02/09/2004 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 10/07/2014 Version End Date: -
E	566m NW	Status: Active Licence No: 28/39/44/0047/R01 Details: Process Water Direct Source: THAMES GROUNDWATER Point: VICTORIA DEEP WATER TERMINAL GREENWICH SE10- BOREHOLE Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 538997 Northing: 179359	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 720 Original Application No: NPS WR/011609 Original Start Date: 25/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 25/04/2016 Version End Date: -



ID	Location	Details	
F	613m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, - BOREHOLE 'A' Data Type: Point Name: DEPT. OF HEALTH- LONDON REGION Easting: 539630 Northing: 178090	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 01/07/2001 Version End Date: -
F	613m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, GREENWICH Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539630 Northing: 178090	Annual Volume (m ³): 200000 Max Daily Volume (m ³): 548 Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 22/11/2004 Version End Date: -
3	764m SW	Status: Active Licence No: TH/039/0044/024 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT ERNEST DENCE ESTATES Data Type: Point Name: Royal Borough of Greenwich Council Easting: 538831 Northing: 178015	Annual Volume (m ³): 258777 Max Daily Volume (m ³): 1320 Original Application No: NPS/WR/032200 Original Start Date: 04/04/2022 Expiry Date: 31/03/2040 Issue No: 1 Version Start Date: 04/04/2022 Version End Date: -
-	894m E	Status: Active Licence No: TH/039/0044/005/R01 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE Data Type: Point Name: Tarmac Trading Limited Easting: 540450 Northing: 178902	Annual Volume (m ³): 38500 Max Daily Volume (m ³): 400 Original Application No: NPS/WR/038710 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 26/08/2022 Version End Date: -



ID	Location	Details	
-	894m E	Status: Active Licence No: TH/039/0044/005/R01 Details: Process Water Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE Data Type: Point Name: Tarmac Trading Limited Easting: 540450 Northing: 178902	Annual Volume (m ³): 38500 Max Daily Volume (m ³): 400 Original Application No: NPS/WR/038710 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 26/08/2022 Version End Date: -
-	899m E	Status: Historical Licence No: TH/039/0044/005 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE Data Type: Point Name: Tarmac Trading Limited Easting: 540455 Northing: 178901	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 07/01/2010 Expiry Date: 31/03/2019 Issue No: 4 Version Start Date: 26/10/2015 Version End Date: -
-	899m E	Status: Historical Licence No: TH/039/0044/005 Details: Process Water Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE Data Type: Point Name: Tarmac Trading Limited Easting: 540455 Northing: 178901	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 07/01/2010 Expiry Date: 31/03/2019 Issue No: 4 Version Start Date: 26/10/2015 Version End Date: -
-	914m E	Status: Historical Licence No: TH/039/0044/005 Details: Process Water Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE 'A' Data Type: Point Name: TARMAC LIMITED Easting: 540470 Northing: 178900	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 07/01/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 07/01/2010 Version End Date: -
-	914m E	Status: Historical Licence No: TH/039/0044/005 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE 'A' Data Type: Point Name: TARMAC LIMITED Easting: 540470 Northing: 178900	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 07/01/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 07/01/2010 Version End Date: -



ID	Location	Details	
-	998m E	Status: Historical Licence No: 28/39/44/0043 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE 'A' Data Type: Point Name: UNITED MARINE AGGREGATES LTD Easting: 540550 Northing: 178940	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 01/03/2000 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 01/04/2001 Version End Date: -
-	998m E	Status: Historical Licence No: 28/39/44/0043 Details: Process Water Direct Source: THAMES GROUNDWATER Point: LOMBARD WALL, CHARLTON - BOREHOLE 'A' Data Type: Point Name: UNITED MARINE AGGREGATES LTD Easting: 540550 Northing: 178940	Annual Volume (m ³): 100000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 01/03/2000 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 01/04/2001 Version End Date: -
-	1017m N	Status: Active Licence No: TH/039/0044/013 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE A - GREENWICH Data Type: Point Name: WestInvest Gesellschaft fur Investmentfonds mbH Easting: 539329 Northing: 179866	Annual Volume (m ³): 1261440 Max Daily Volume (m ³): 3456 Original Application No: NPS/WR/013024 Original Start Date: 11/09/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 11/09/2013 Version End Date: -
-	1017m N	Status: Historical Licence No: 28/39/44/0051 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ABSTRACTION POINT 'A' - CHALK, GREEN PLACE, GREENWICH Data Type: Point Name: GREENWICH PENINSULA N0204 BLOCK A NOMINEE 1 & 2 LIMITED Easting: 539329 Northing: 179866	Annual Volume (m ³): 1261440 Max Daily Volume (m ³): 3456 Original Application No: - Original Start Date: 06/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 06/04/2009 Version End Date: -



ID	Location	Details	
-	1042m N	Status: Active Licence No: TH/039/0044/013 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE B - GREENWICH Data Type: Point Name: WestInvest Gesellschaft fur Investmentfonds mbH Easting: 539311 Northing: 179891	Annual Volume (m ³): 1261440 Max Daily Volume (m ³): 3456 Original Application No: NPS/WR/013024 Original Start Date: 11/09/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 11/09/2013 Version End Date: -
-	1042m N	Status: Historical Licence No: 28/39/44/0051 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ABSTRACTION POINT 'B' - CHALK, GREEN PLACE, GREENWICH Data Type: Point Name: GREENWICH PENINSULA N0204 BLOCK A NOMINEE 1 & 2 LIMITED Easting: 539311 Northing: 179891	Annual Volume (m ³): 1261440 Max Daily Volume (m ³): 3456 Original Application No: - Original Start Date: 06/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 06/04/2009 Version End Date: -
-	1047m N	Status: Historical Licence No: 28/39/44/0024 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH. Data Type: Point Name: BLACKWALL AGGREGATES LIMITED Easting: 538900 Northing: 179830	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/11/1988 Expiry Date: - Issue No: 101 Version Start Date: 11/01/2000 Version End Date: -
-	1047m N	Status: Historical Licence No: 28/39/44/0046 Details: Process water Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH. Data Type: Point Name: HANSON QUARRY PROD EUROPE LTD Easting: 538900 Northing: 179830	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/01/2002 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/01/2002 Version End Date: -



ID	Location	Details	
-	1063m NW	Status: Historical Licence No: 28/39/44/0024 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH, - BOREHOLE 'A' Data Type: Point Name: BLACKWALL AGGREGATES LIMITED Easting: 538830 Northing: 179830	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/11/1988 Expiry Date: - Issue No: 101 Version Start Date: 11/01/2000 Version End Date: -
-	1115m N	Status: Historical Licence No: 28/39/44/0025 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH, - BOREHOLE 'A' Data Type: Point Name: PIONEER WILLMENT CONCRETE LTD Easting: 538900 Northing: 179900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/1991 Expiry Date: 31/12/2001 Issue No: 100 Version Start Date: 14/06/1991 Version End Date: -
-	1198m SW	Status: Active Licence No: TH/039/0044/006/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GSHP (WELL B) AT NATIONAL MARITIME MUSEUM Data Type: Point Name: National Maritime Museum Easting: 538641 Northing: 177624	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 1104 Original Application No: NPS/WR/035099 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 3 Version Start Date: 09/05/2022 Version End Date: -
-	1198m SW	Status: Historical Licence No: TH/039/0044/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GSHP AT NATIONAL MARITIME MUSEUM Data Type: Line Name: The National Maritime Museum Enterprises Limited Easting: 538641 Northing: 177624	Annual Volume (m ³): 80000 Max Daily Volume (m ³): 1104 Original Application No: - Original Start Date: 03/12/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 03/12/2010 Version End Date: -



ID	Location	Details	
-	1198m SW	Status: Historical Licence No: TH/039/0044/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GSHP AT NATIONAL MARITIME MUSEUM Data Type: Point Name: The National Maritime Museum Enterprises Limited Easting: 538641 Northing: 177624	Annual Volume (m ³): 80000 Max Daily Volume (m ³): 1104 Original Application No: - Original Start Date: 03/12/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 27/02/2017 Version End Date: -
-	1257m N	Status: Historical Licence No: 28/39/44/0042 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: THE MILLENNIUM DOME BOREHOLE Data Type: Point Name: ENGLISH PARTNERSHIPS Easting: 538900 Northing: 180050	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/11/1999 Expiry Date: 31/12/2004 Issue No: 2 Version Start Date: 01/07/2001 Version End Date: -
-	1259m SW	Status: Historical Licence No: 28/39/44/0039 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: NATIONAL MARITIME MUSEUM, GREENWICH - BOREHOLE Data Type: Point Name: TRUSTEES OF NATIONAL MARITIME MUSEUM Easting: 538550 Northing: 177600	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 28/06/1999 Expiry Date: 31/12/2009 Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1259m SW	Status: Historical Licence No: TH/039/0044/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: NATIONAL MARITIME MUSEUM, GREENWICH - BOREHOLE Data Type: Point Name: TRUSTEES OF NATIONAL MARITIME MUSEUM Easting: 538550 Northing: 177600	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 27/11/2009 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 27/11/2009 Version End Date: -



ID	Location	Details	
-	1261m SW	Status: Active Licence No: TH/039/0044/003/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: NATIONAL MARITIME MUSEUM, GREENWICH - BOREHOLE Data Type: Point Name: National Maritime Museum Easting: 538599 Northing: 177574	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 86.4 Original Application No: NPS/WR/036380 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 3 Version Start Date: 19/02/2021 Version End Date: -
-	1261m SW	Status: Historical Licence No: TH/039/0044/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: NATIONAL MARITIME MUSEUM, GREENWICH - BOREHOLE Data Type: Point Name: National Maritime Museum Enterprises Limited Easting: 538599 Northing: 177574	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 27/11/2009 Expiry Date: 31/03/2019 Issue No: 4 Version Start Date: 10/07/2014 Version End Date: -
-	1331m SW	Status: Active Licence No: TH/039/0044/006/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GHSP (WELL C) T NATIONAL MARITIME MUSEUM Data Type: Point Name: National Maritime Museum Easting: 538510 Northing: 177540	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 1104 Original Application No: NPS/WR/035099 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 3 Version Start Date: 09/05/2022 Version End Date: -
-	1331m SW	Status: Historical Licence No: TH/039/0044/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: GHSP (WELL C) T NATIONAL MARITIME MUSEUM Data Type: Point Name: The National Maritime Museum Enterprises Limited Easting: 538510 Northing: 177540	Annual Volume (m ³): 80000 Max Daily Volume (m ³): 1104 Original Application No: - Original Start Date: 03/12/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 27/02/2017 Version End Date: -



ID	Location	Details	
-	1472m NW	Status: Active Licence No: TH/039/0039/152 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: CHALK AT WOOD WHARF, LONDON - BOREHOLE B Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538298 Northing: 180030	Annual Volume (m ³): 1892000 Max Daily Volume (m ³): 5184 Original Application No: NPS/NA/000874 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1496m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT G - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538181 Northing: 179975	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1524m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT F - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538189 Northing: 180016	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1552m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT H - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538105 Northing: 179985	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -



ID	Location	Details	
-	1561m NW	Status: Active Licence No: TH/039/0039/152 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: CHALK AT WOOD WHARF, LONDON - BOREHOLE C Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538095 Northing: 179988	Annual Volume (m ³): 1892000 Max Daily Volume (m ³): 5184 Original Application No: NPS/NA/000874 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1569m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT E - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538206 Northing: 180085	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1625m S	Status: Historical Licence No: TH/039/0044/021 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 4312 Max Daily Volume (m ³): 264 Original Application No: NPS/WR/031293 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 1 Version Start Date: 08/01/2020 Version End Date: -
-	1625m S	Status: Historical Licence No: TH/039/0044/021 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 4312 Max Daily Volume (m ³): 264 Original Application No: NPS/WR/031293 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 1 Version Start Date: 08/01/2020 Version End Date: -
-	1625m S	Status: Historical Licence No: TH/039/0044/021 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: BOLE GREENWICH PARK Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 4312 Max Daily Volume (m ³): 264 Original Application No: NPS/WR/031293 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 1 Version Start Date: 08/01/2020 Version End Date: -



ID	Location	Details	
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Animal Watering & General Use In Non Farming Situations Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -



ID	Location	Details	
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Lake & Pond Throughflow Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -
-	1643m NW	Status: Active Licence No: TH/039/0039/152 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: CHALK AT WOOD WHARF, LONDON - BOREHOLE A Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538176 Northing: 180154	Annual Volume (m ³): 1892000 Max Daily Volume (m ³): 5184 Original Application No: NPS/NA/000874 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1653m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT D - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538150 Northing: 180148	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1685m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT C - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538106 Northing: 180156	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -



ID	Location	Details	
-	1756m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT B - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 538055 Northing: 180206	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1780m NW	Status: Active Licence No: TH/039/0039/150 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: POINT A - RIVER TERRACE DEPOSITS AT WOOD WHARF Data Type: Point Name: Canary Wharf Contractors Limited Easting: 537979 Northing: 180176	Annual Volume (m ³): 394200 Max Daily Volume (m ³): 1080 Original Application No: NPS/NA/000857 Original Start Date: 18/10/2022 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 18/10/2022 Version End Date: -
-	1924m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 5 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539445 Northing: 180766	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1931m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 6 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539401 Northing: 180777	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1933m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 7 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539389 Northing: 180780	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -



ID	Location	Details	
-	1940m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 8 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539353 Northing: 180788	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1961m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 9 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539332 Northing: 180810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1963m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 4 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539454 Northing: 180805	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1963m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 10 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539312 Northing: 180813	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1966m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 3 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539417 Northing: 180811	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -



ID	Location	Details	
-	1974m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 2 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539391 Northing: 180821	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1979m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 1 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539340 Northing: 180828	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	1992m N	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 12 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539317 Northing: 180842	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

0

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.

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



5.8 Potable abstractions

Records within 2000m

6

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 137](#) >

ID	Location	Details	
C	501m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, - BOREHOLE 'A' Data Type: Point Name: GREENWICH HEALTHCARE TRUST Easting: 539600 Northing: 178200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 1 Version Start Date: 14/06/2000 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE 'A' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178750	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -
D	539m E	Status: Historical Licence No: 28/39/44/0050 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 55 BUGSBY WAY, LONDON SE10 - BOREHOLE 'B' Data Type: Point Name: SAINSBURY'S SUPERMARKETS LTD Easting: 540100 Northing: 178730	Annual Volume (m ³): 583732 Max Daily Volume (m ³): 2678 Original Application No: - Original Start Date: 12/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 11/04/2008 Version End Date: -



ID	Location	Details	
F	613m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, - BOREHOLE 'A' Data Type: Point Name: DEPT. OF HEALTH- LONDON REGION Easting: 539630 Northing: 178090	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 2 Version Start Date: 01/07/2001 Version End Date: -
F	613m SE	Status: Historical Licence No: 28/39/44/0044 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GREENWICH DISTRICT HOSPITAL, VANBRUGH HILL, GREENWICH Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539630 Northing: 178090	Annual Volume (m ³): 200000 Max Daily Volume (m ³): 548 Original Application No: - Original Start Date: 14/06/2000 Expiry Date: 31/12/2009 Issue No: 3 Version Start Date: 22/11/2004 Version End Date: -
-	1625m S	Status: Active Licence No: TH/039/0044/021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE GREENWICH Data Type: Point Name: The Royal Parks Limited Easting: 539634 Northing: 177076	Annual Volume (m ³): 29492 Max Daily Volume (m ³): 264 Original Application No: NPS/NA/001472 Original Start Date: 08/01/2020 Expiry Date: 31/01/2025 Issue No: 2 Version Start Date: 18/10/2022 Version End Date: -

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

3

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 160 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	28m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	32m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	211m W	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames

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 160 >](#)

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 160 >](#)

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

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



6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 160 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	22m W	Transi	THAMES MIDDLE	GB530603911402 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

1

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

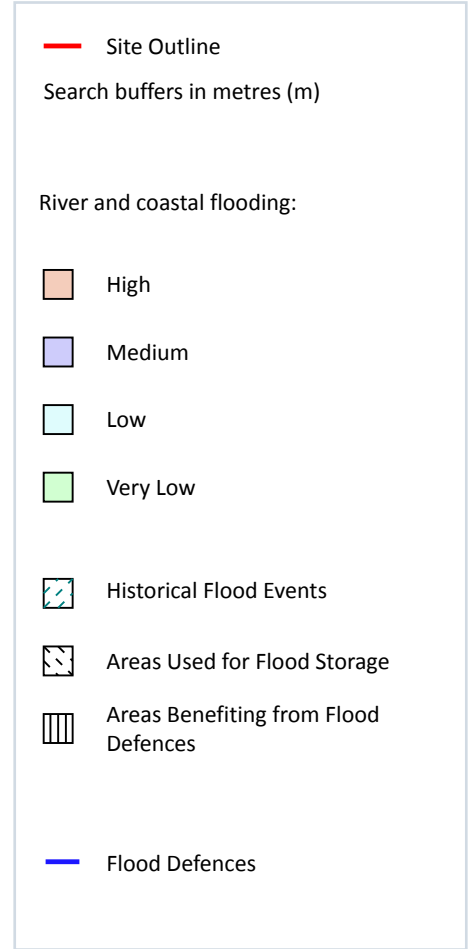
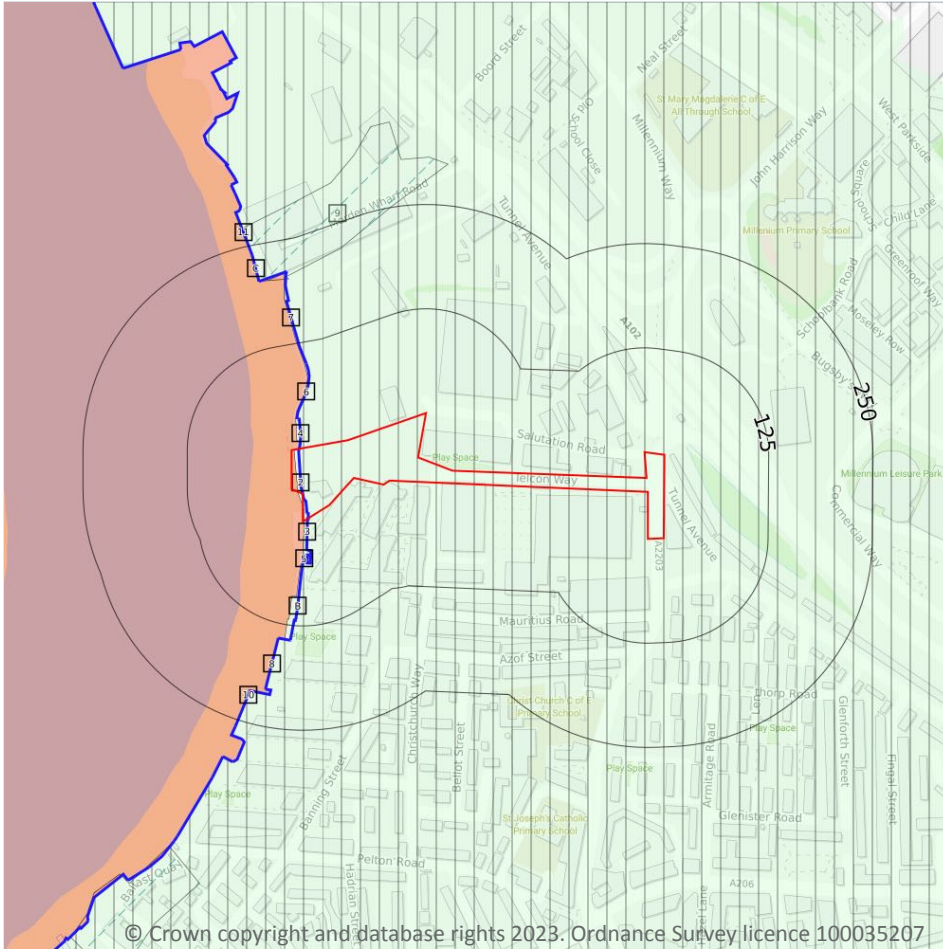
Features are displayed on the Hydrology map on [page 160 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Greenwich Tertiaries and Chalk	GB40602G602500 ↗	Poor	Poor	Poor	2019

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



7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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 163 >](#)

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

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

7.2 Historical Flood Events

Records within 250m	1
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on [page 163 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
9	203m NW	Ttd_Feo_1928	1928-01-06 1928-01-07	Main river	Overtopping of defences	Tidal

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

7.3 Flood Defences

Records within 250m	15
---------------------	----

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 163 >](#)

ID	Location	Update
2	On site	08/11/2022
3	On site	08/11/2022
4	On site	08/11/2022
5	35m SW	08/11/2022
6	36m W	08/11/2022
B	84m SW	08/11/2022



ID	Location	Update
7	99m NW	08/11/2022
B	118m SW	08/11/2022
B	124m SW	08/11/2022
B	143m SW	08/11/2022
8	143m SW	08/11/2022
10	205m SW	08/11/2022
C	206m NW	08/11/2022
C	206m NW	08/11/2022
11	239m NW	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

1

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

Features are displayed on the River and coastal flooding map on [page 163](#) >

ID	Location	
A	On site	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

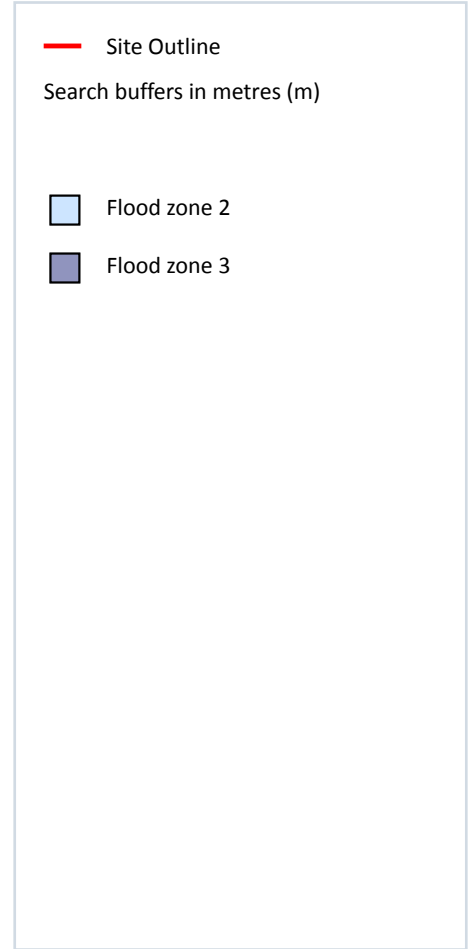
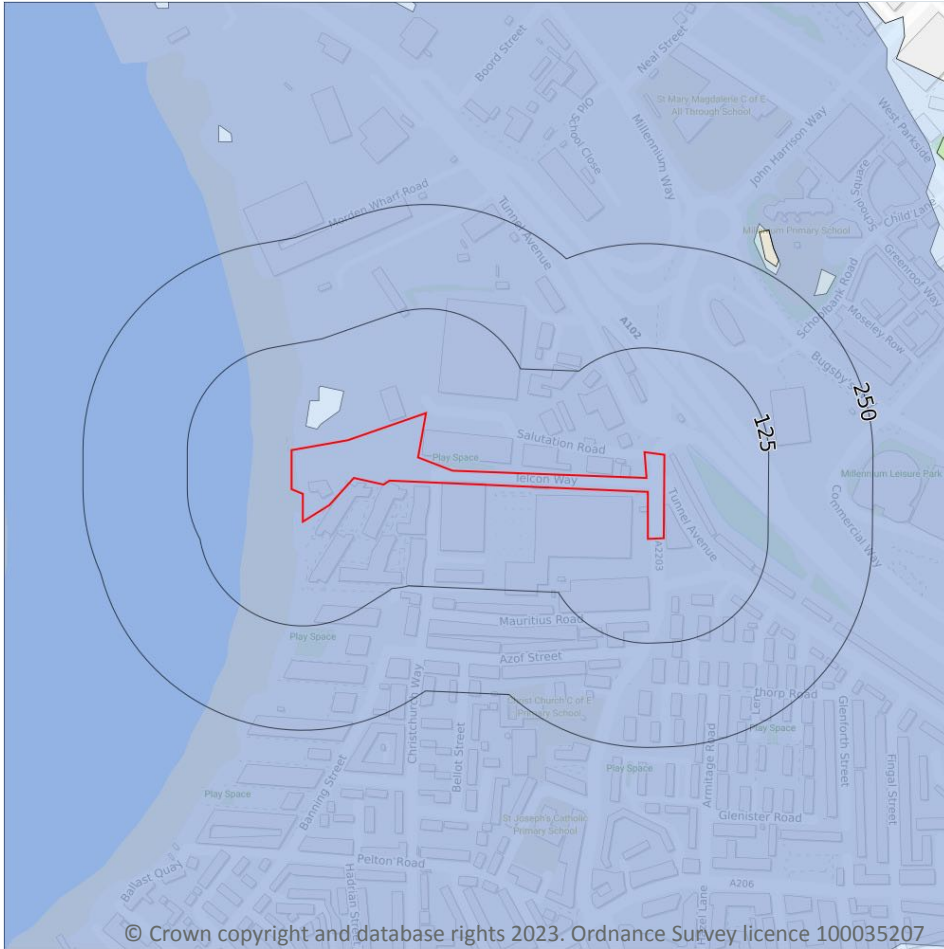
0

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

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



River and coastal flooding - Flood Zones



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 163 >](#)

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.

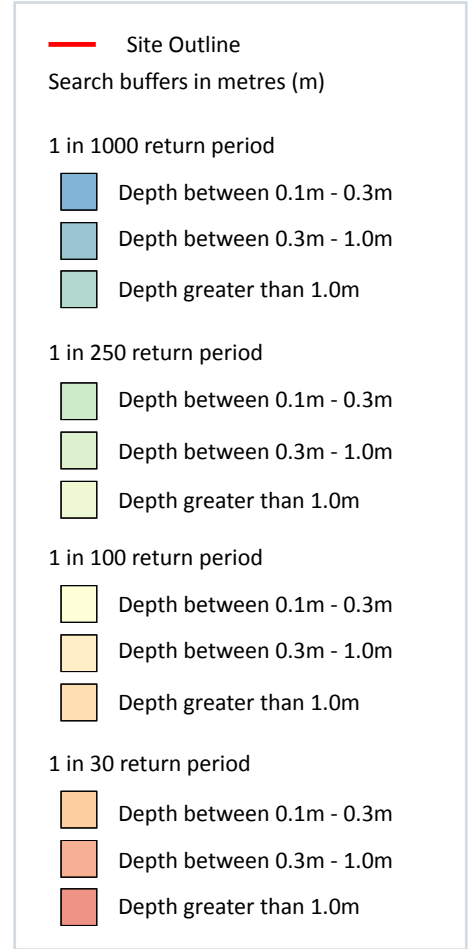
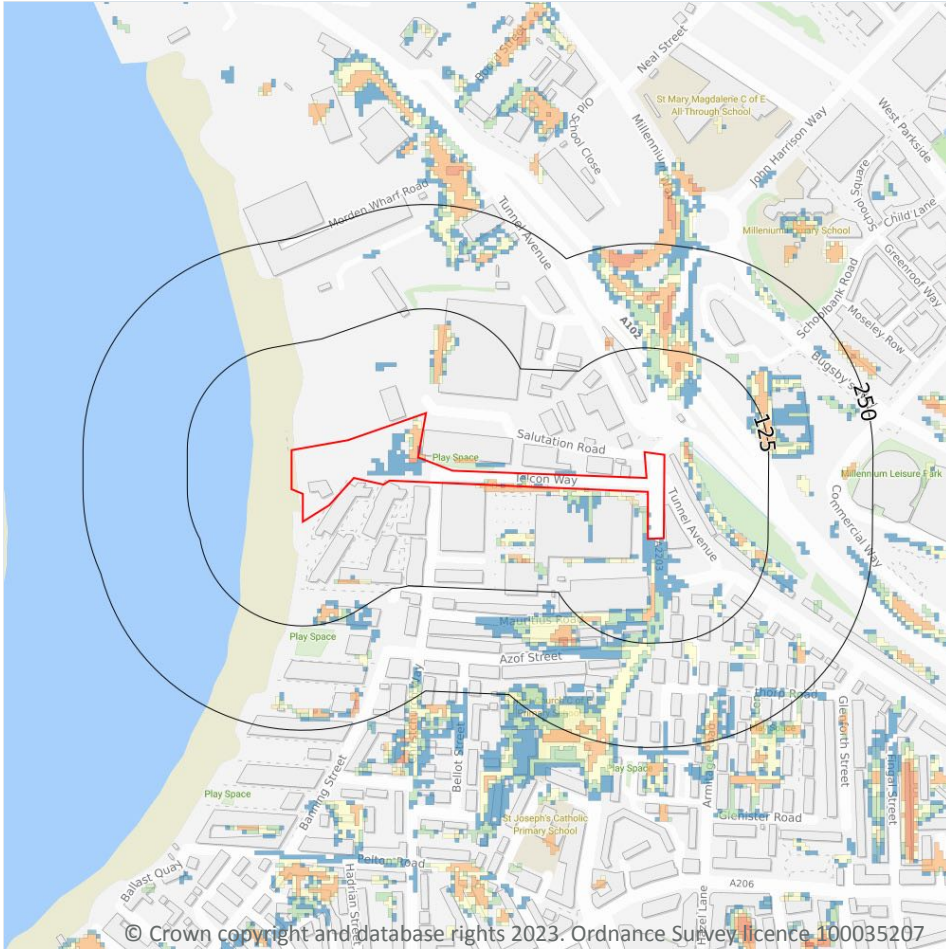
Features are displayed on the River and coastal flooding map on [page 163](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 168 >](#)

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

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

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site	Low
Highest risk within 50m	Low

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 170](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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.

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



10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m**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 171 >](#)

ID	Location	Name	Data source
1	736m W	Mudchute Park Farm	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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.

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

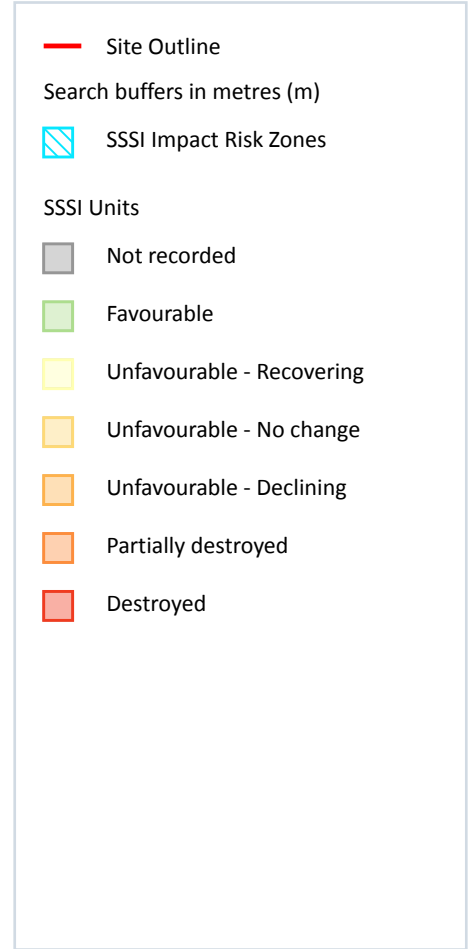
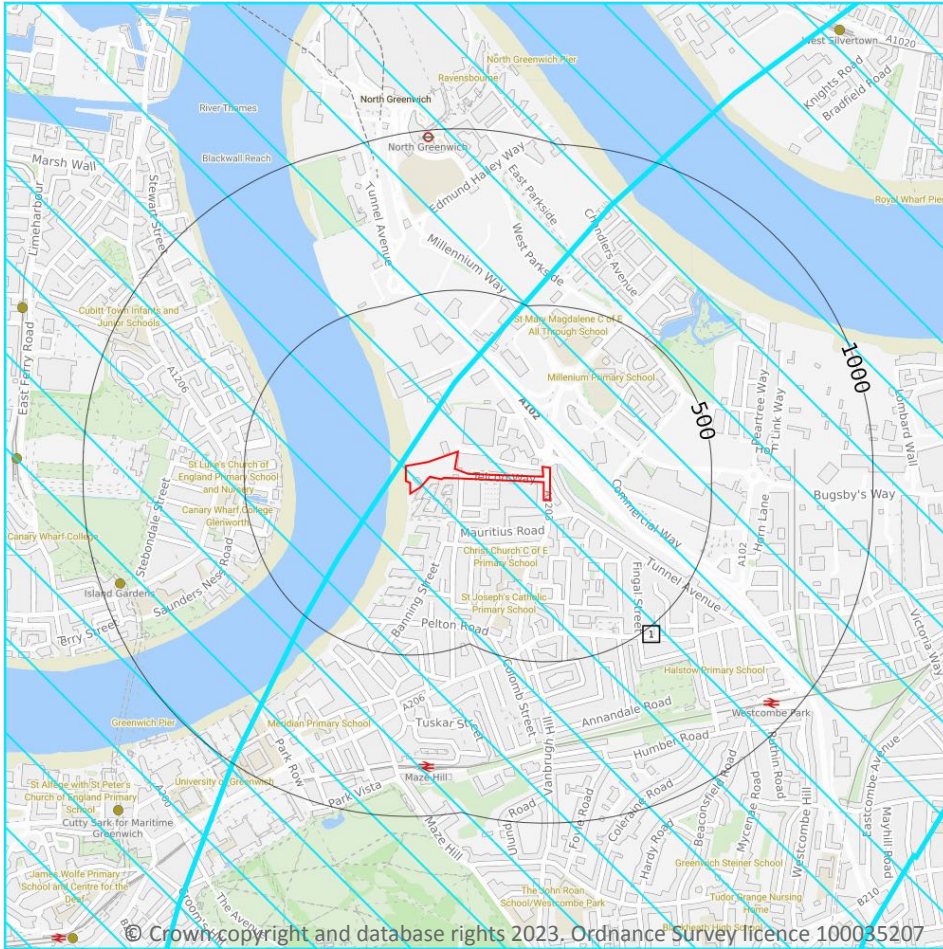
0

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.

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

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 176](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion

This data is sourced from Natural England.

10.18 SSSI Units

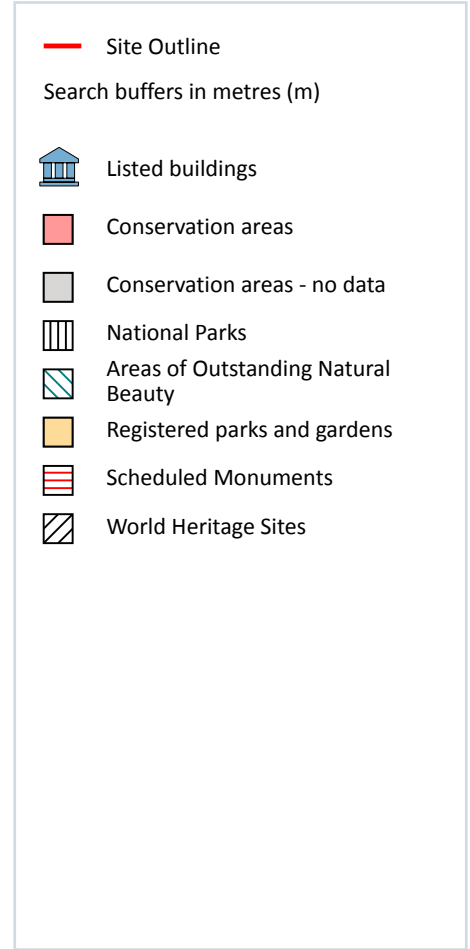
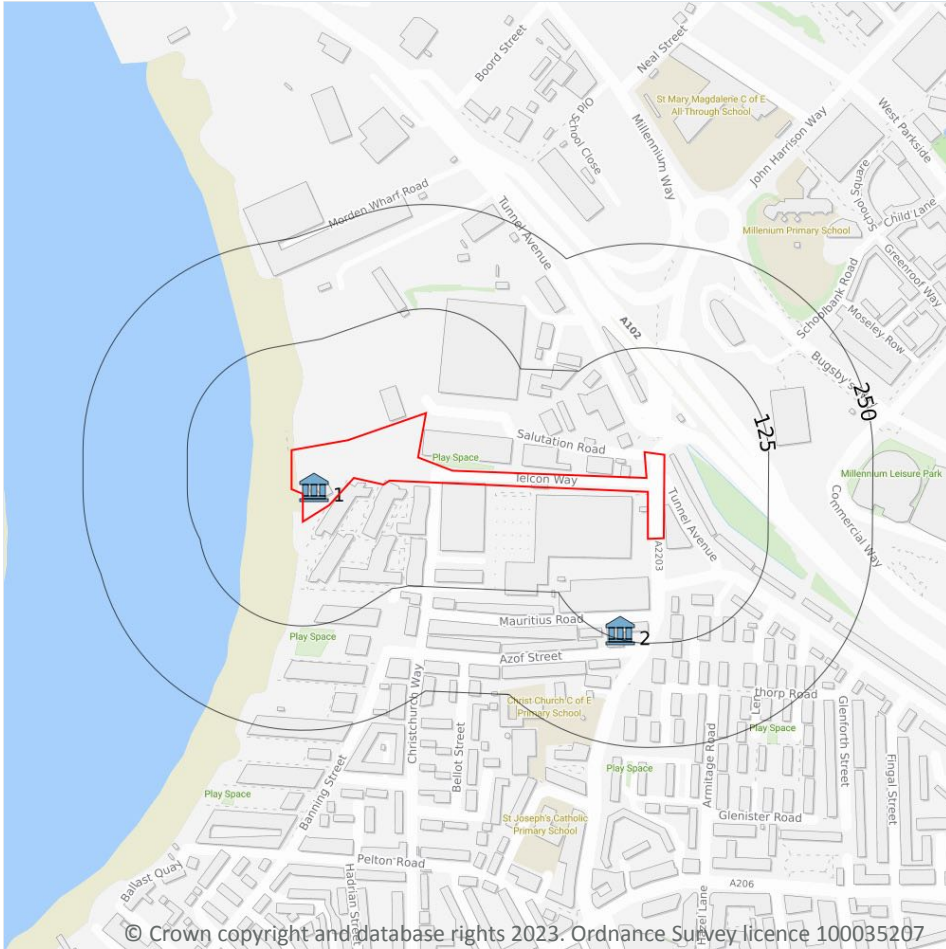
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management 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**2**

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.

Features are displayed on the Visual and cultural designations map on [page 178 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	On site	Enderby House	II	1079026	08/06/1973
2	115m SE	Rothbury Hall	II	1288717	13/02/1995

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



11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

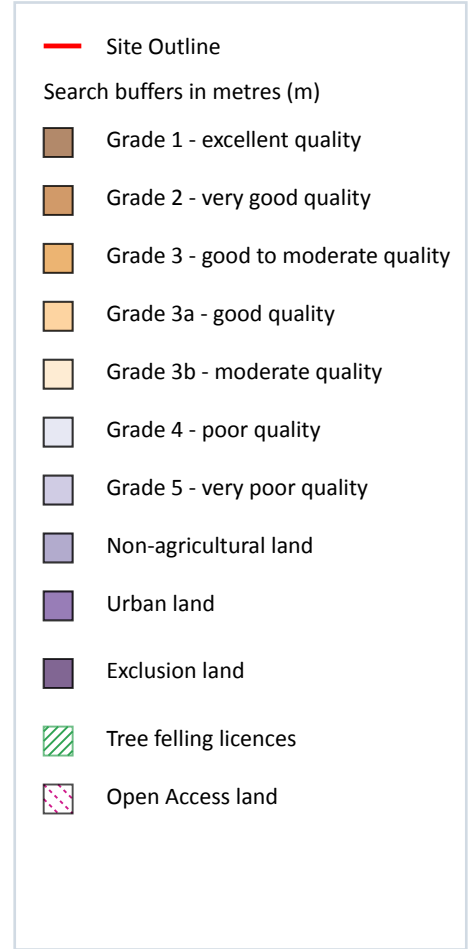
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 181](#) >

ID	Location	Classification	Description
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1	On site	Urban	-
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This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

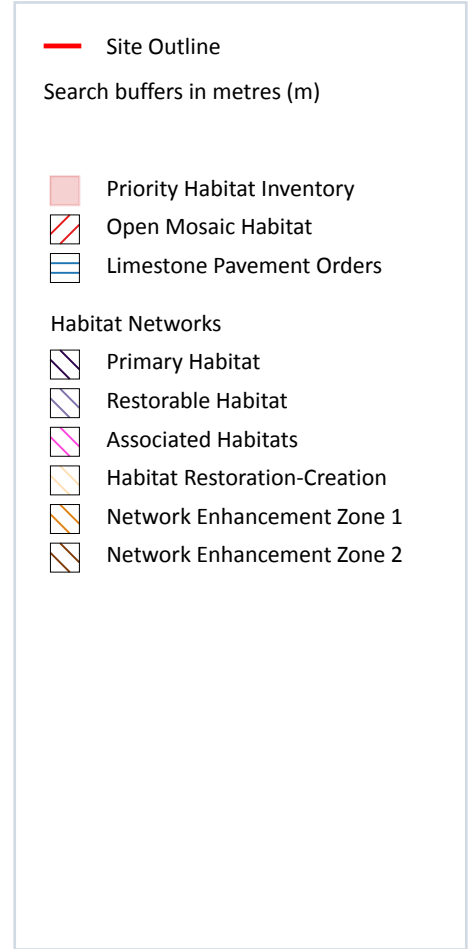
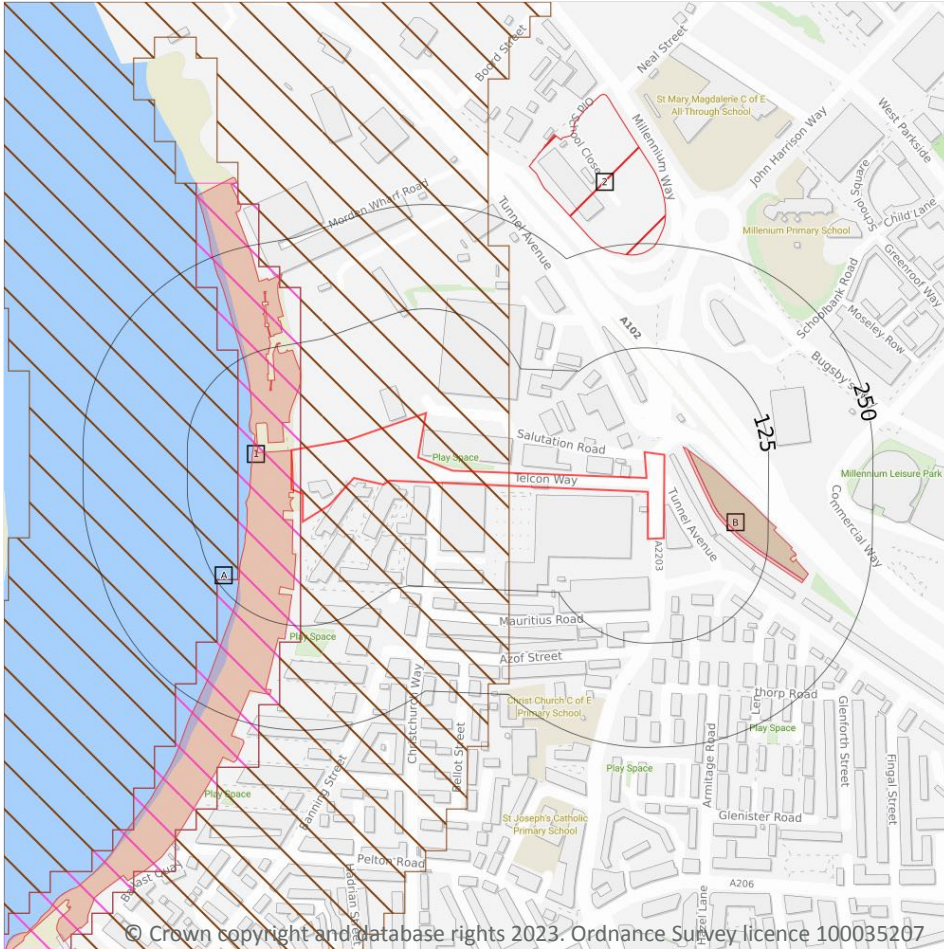
0

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

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

3

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

Features are displayed on the Habitat designations map on [page 183](#) >

ID	Location	Main Habitat	Other habitats
A	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
B	25m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	29m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

2

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

Features are displayed on the Habitat designations map on [page 183 >](#)

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 2	Not specified
A	On site	Associated Habitats	Other associated habitats

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 183 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
2	237m NE	Boord Street Employment Sites	Low	BugLife All Of A Buzz Data	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography

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

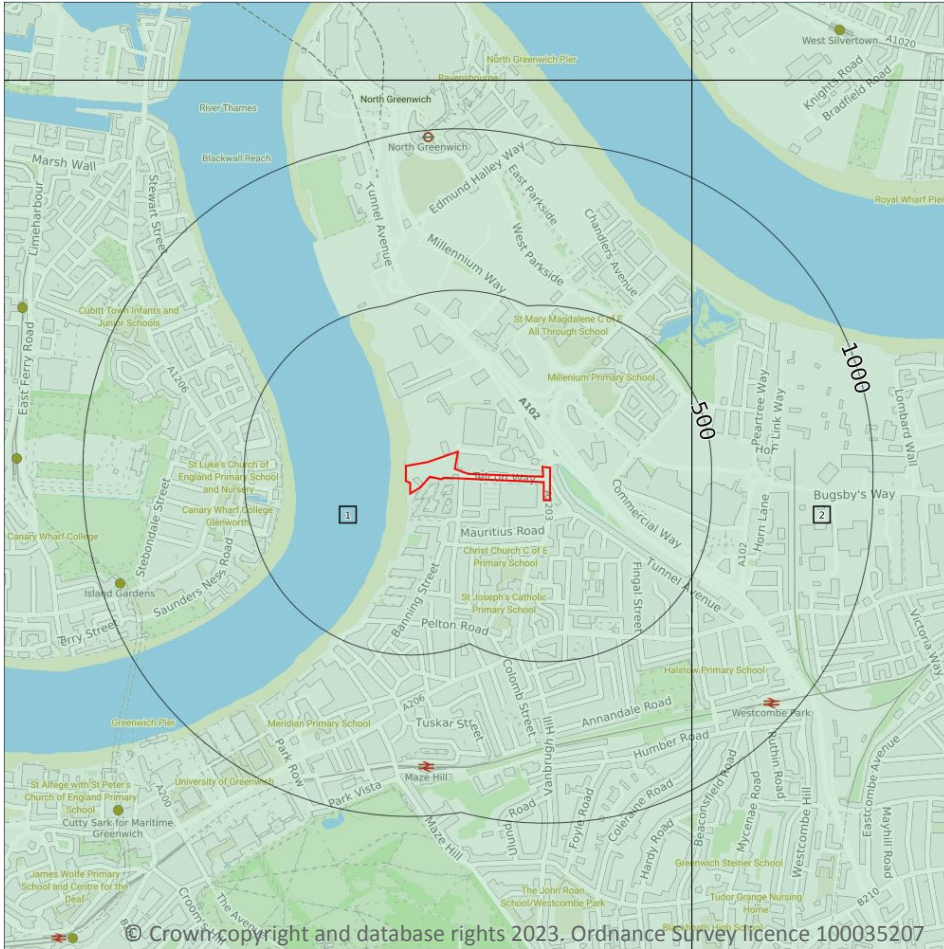


Biodiversity Action Plan priority habitat in England.

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

2

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.

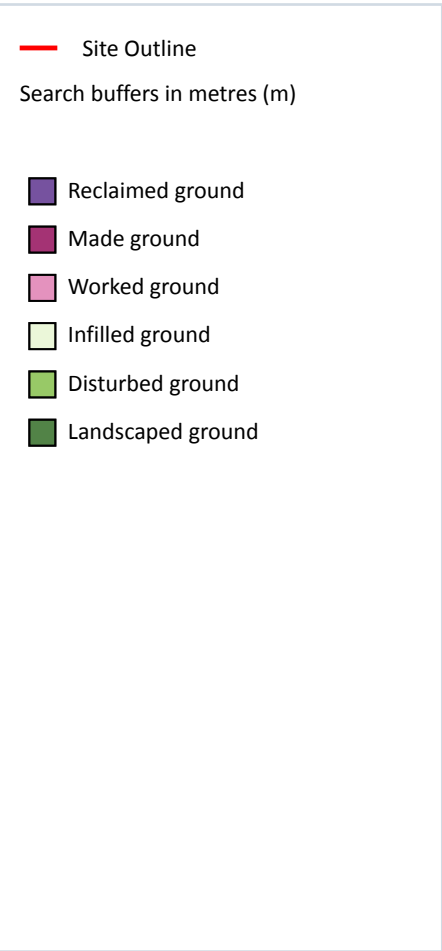
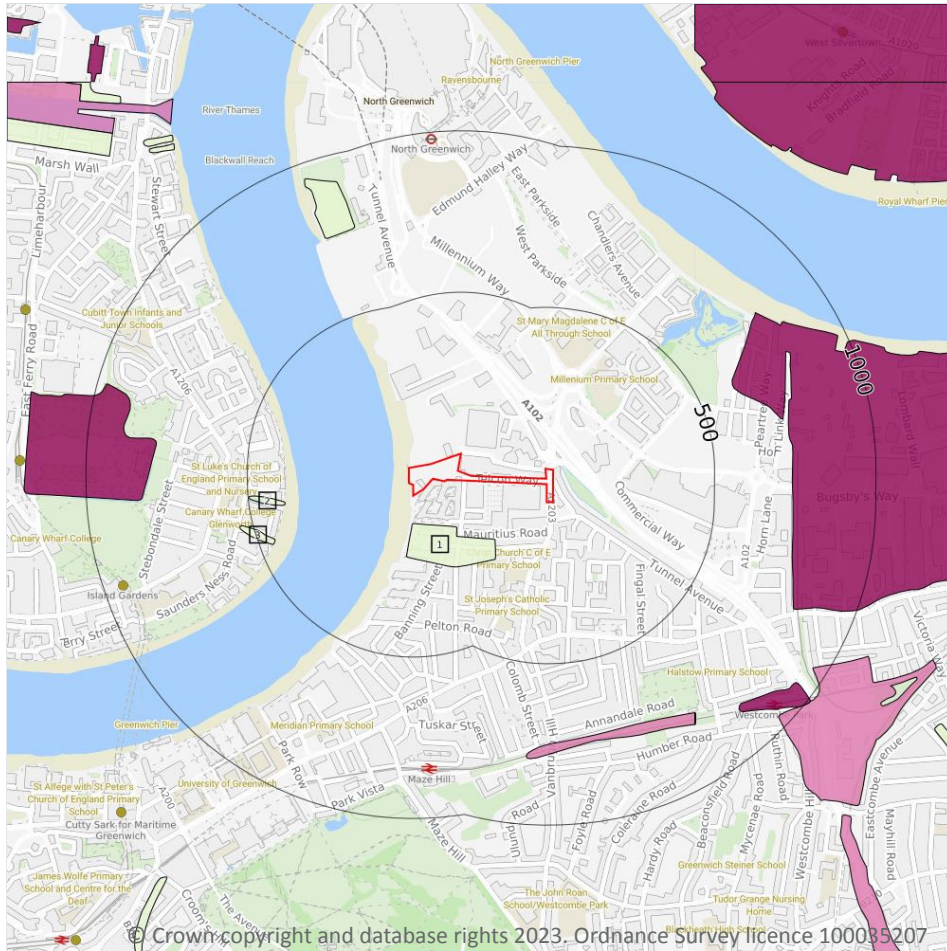
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 186](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ37NE
2	439m E	Full	Full	Full	Full	TQ47NW

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 **3**

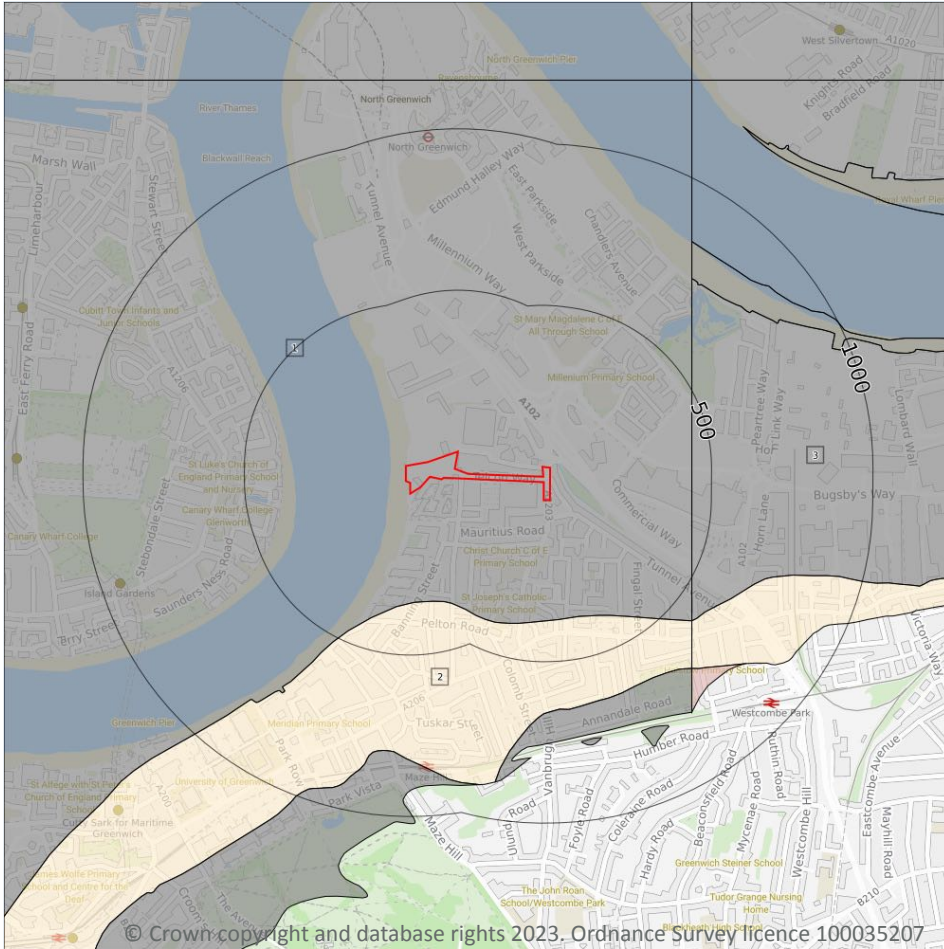
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.


Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 187](#) >

ID	Location	LEX Code	Description	Rock description
1	87m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	388m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	449m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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

14.3 Superficial geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 188](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	337m S	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel
3	439m E	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

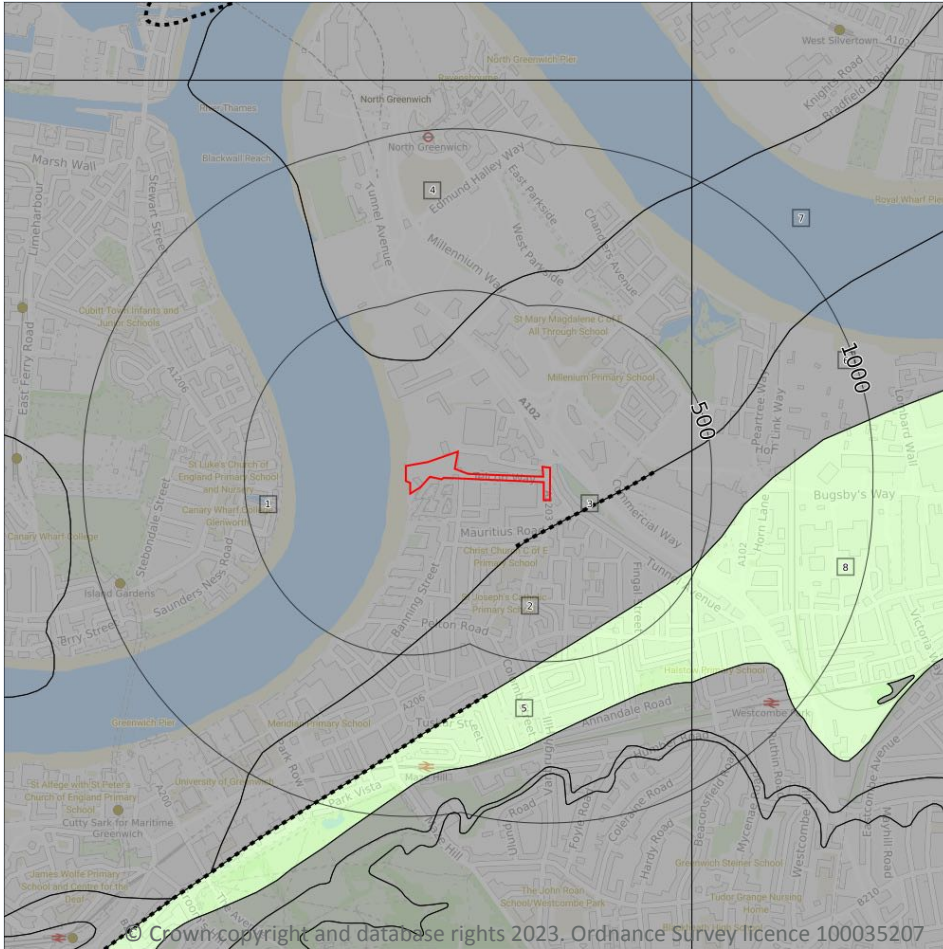
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



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

14.5 Bedrock geology (10k)

Records within 500m

7

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 190](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-CLAY	Lambeth Group - Clay	Paleocene Epoch
2	76m SE	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
4	304m N	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
5	416m SE	SECK-CHLK	Seaford Chalk Formation - Chalk	Santonian Age - Coniacian Age



ID	Location	LEX Code	Description	Rock age
6	439m E	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
7	442m E	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
8	488m E	SECK-CHLK	Seaford Chalk Formation - Chalk	Santonian Age - Coniacian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

1

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

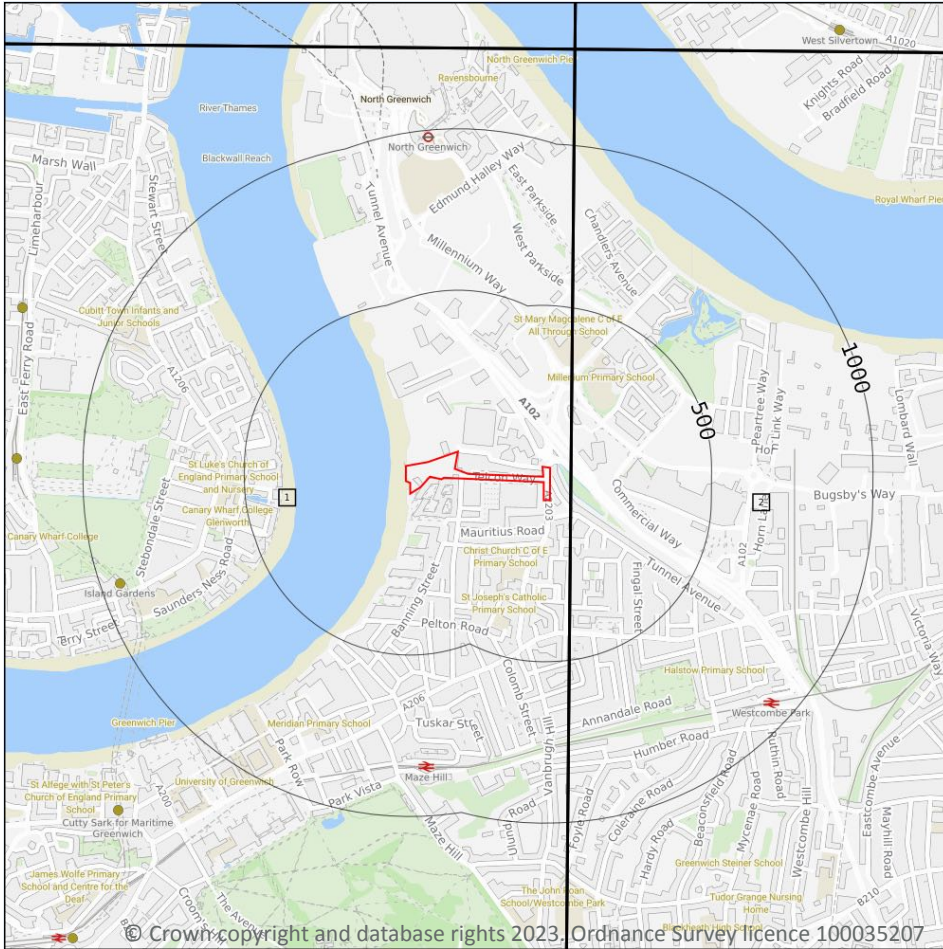
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 190](#) >

ID	Location	Category	Description
3	76m SE	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

2

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

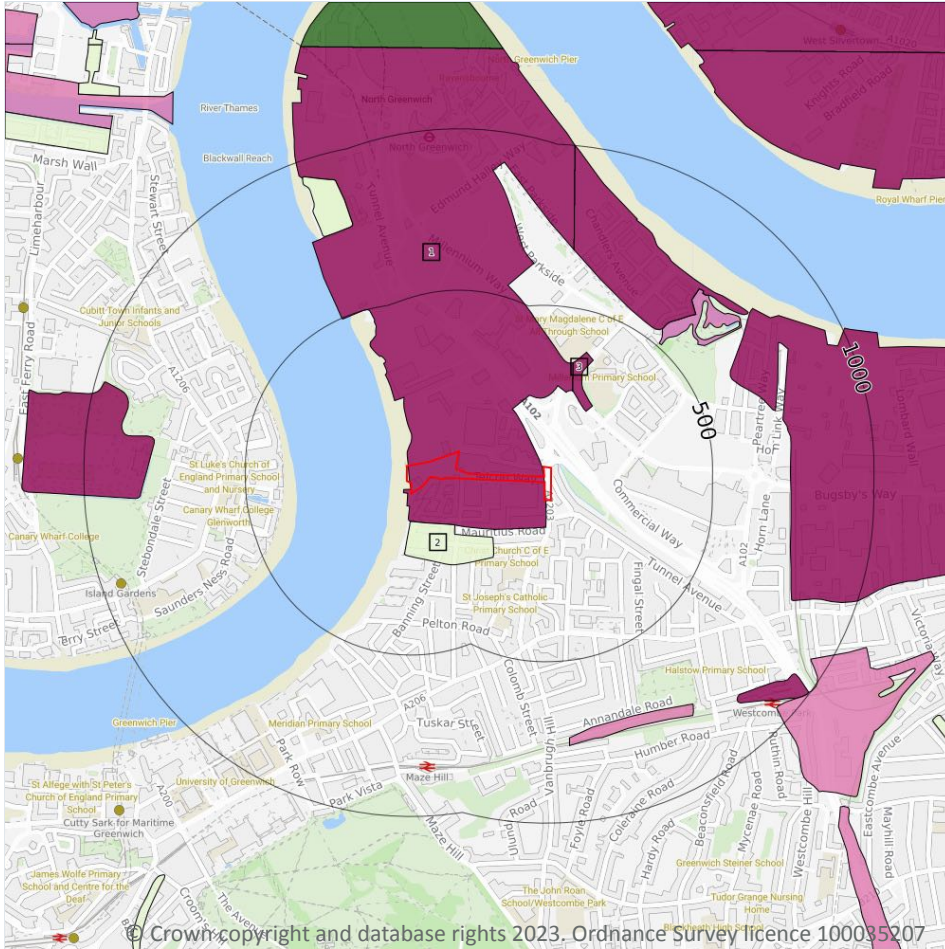
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 192](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW270_south_london_v4
2	65m E	Full	Full	Full	Full	EW271_dartford_v4

This data is sourced from the British Geological Survey.



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



15.2 Artificial and made ground (50k)

Records within 500m

3

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 193](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	86m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	206m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

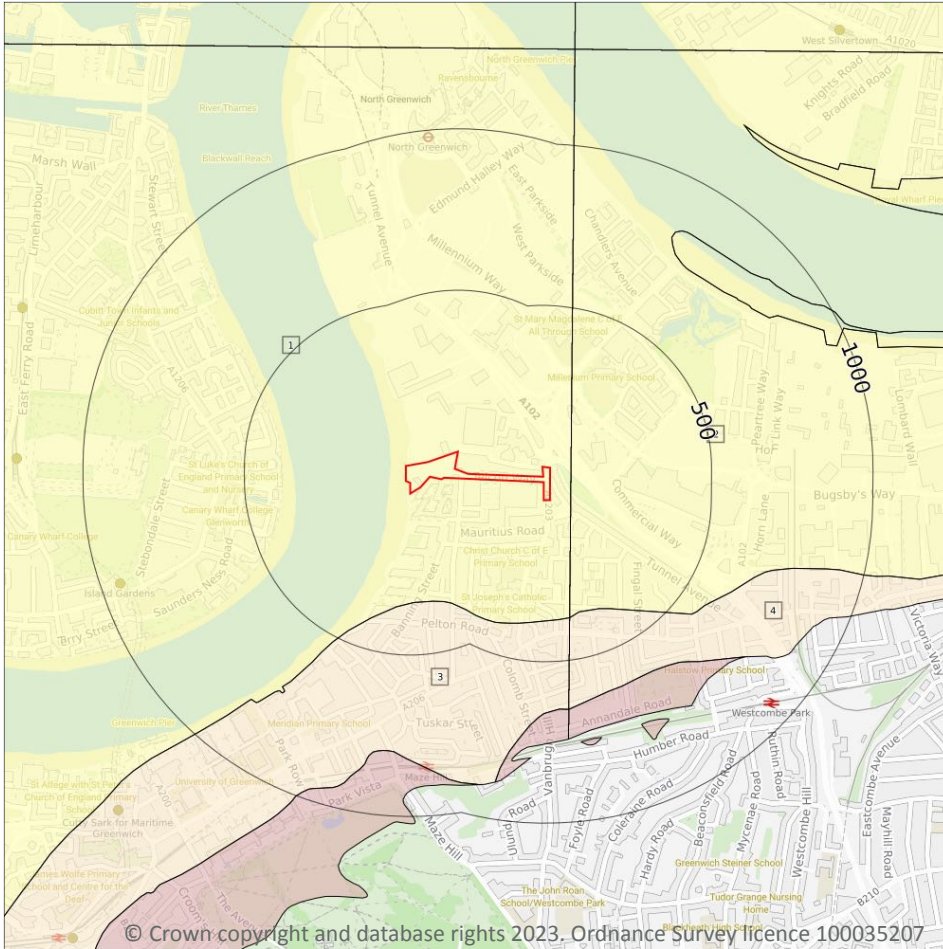
Records within 50m	1
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 195 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
2	64m E	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
3	337m S	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
4	358m SE	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL



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

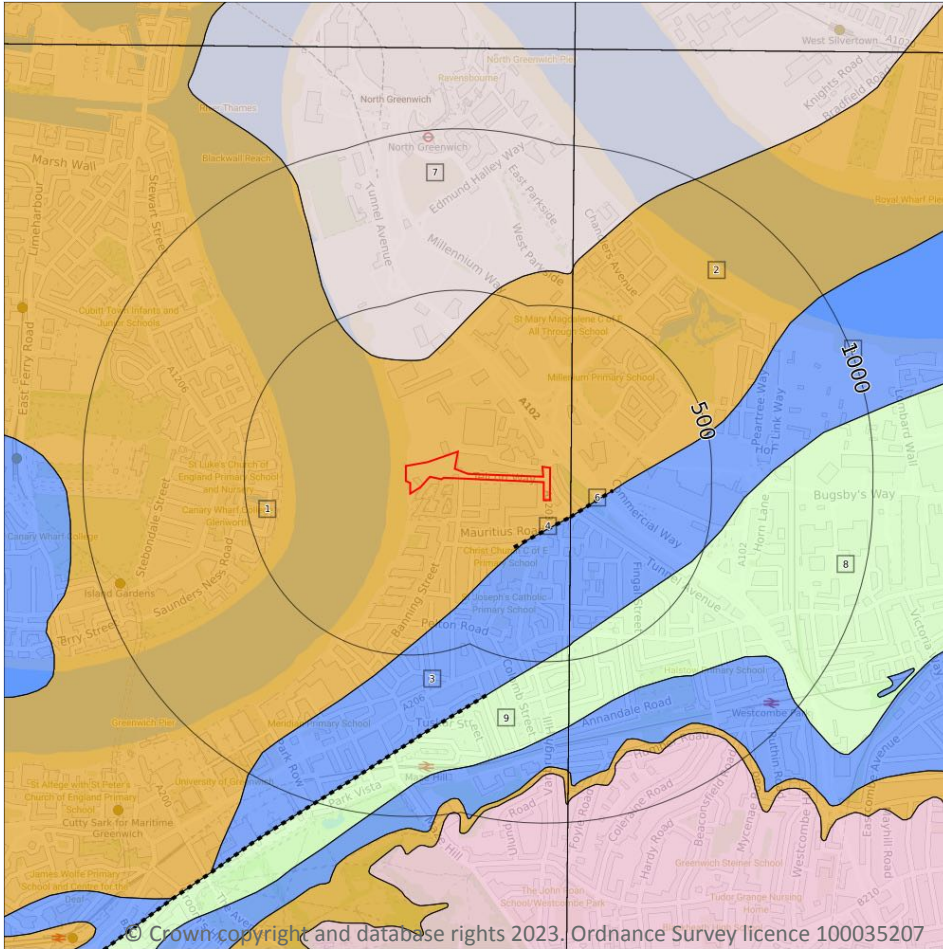
0

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

7

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 197](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	64m E	LMBE-XSZC	LAMBETH GROUP - SAND, SILT AND CLAY	THANETIAN
3	76m SE	TAB-S	THANET FORMATION - SAND	THANETIAN
5	83m E	TAB-S	THANET FORMATION - SAND	THANETIAN



ID	Location	LEX Code	Description	Rock age
7	305m N	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN
8	405m SE	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
9	455m SE	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

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	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

2

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.

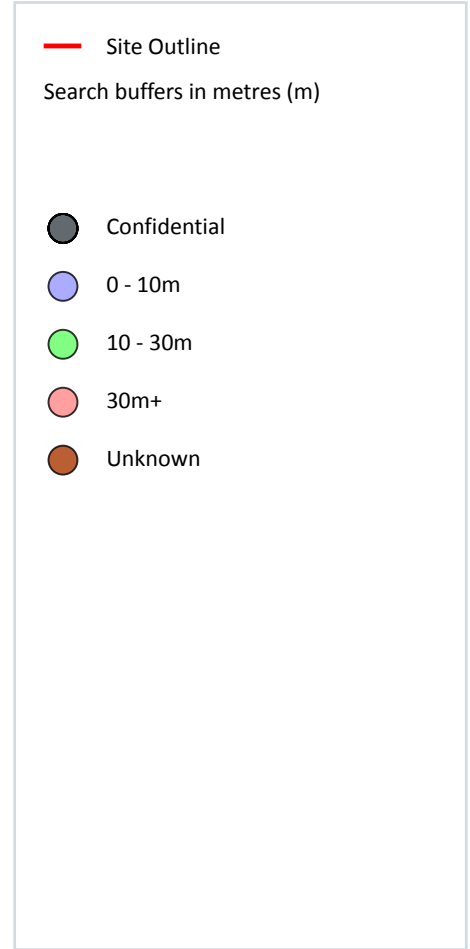
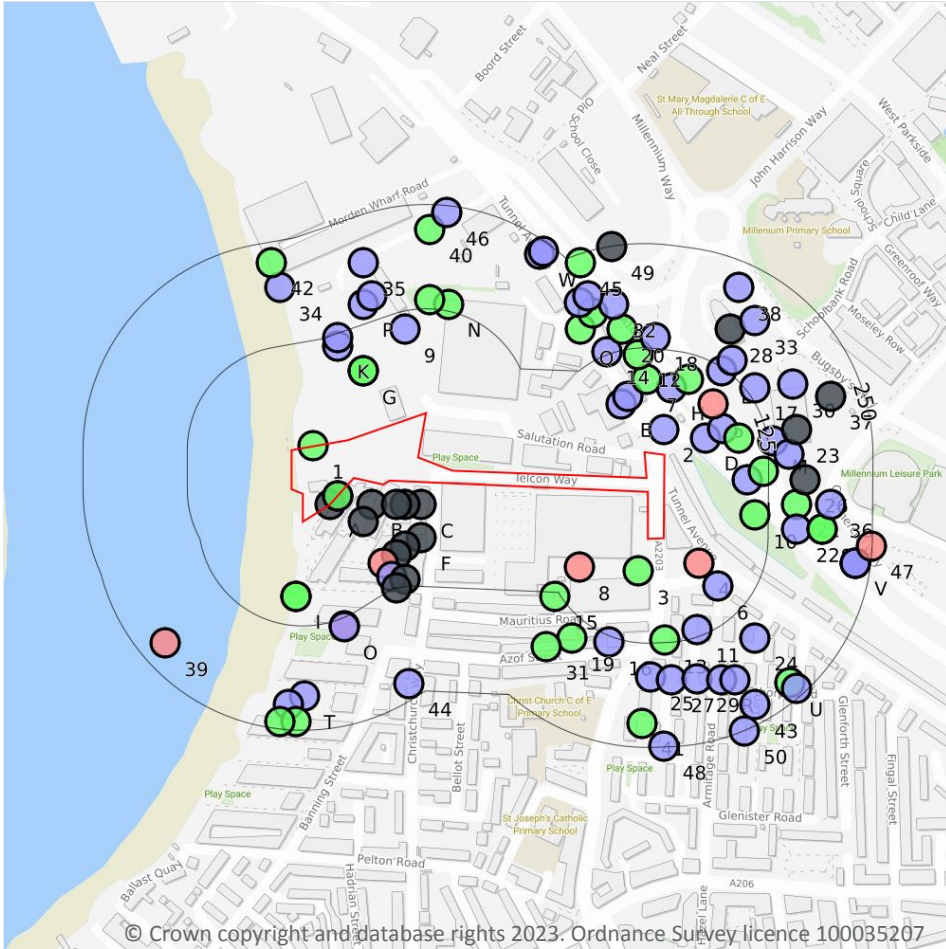
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 197 >](#)

ID	Location	Category	Description
4	76m SE	FAULT	Fault, inferred
6	83m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

109

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 199 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	539160 178740	GREENWICH 2	-	Y	N/A
1	0m W	539140 178810	DOCKLANDS SOUTHERN RELIEF ROAD 12	28.0	N	601917 ↗
A	1m W	539170 178750	S.T. C. GREENWICH 2	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	1m W	539170 178750	CHRISTCHURCH WAY GREENWICH	13.78	N	601351 ↗
B	26m SW	539210 178740	S.T. C. GREENWICH TP2	-	Y	N/A
C	27m SW	539270 178740	S.T. C. GREENWICH TP3	-	Y	N/A
C	28m SW	539250 178740	S.T. C. GREENWICH 1	-	Y	N/A
C	28m SW	539240 178740	GREENWICH 1	-	Y	N/A
2	30m E	539560 178830	BLACKWALL TUNNEL (STHN APPR ROUTE) BH27	7.62	N	600610 ↗
3	40m SE	539530 178660	BLACKWALL LANE GREENWICH 2	17.0	N	13334852 ↗
B	43m SW	539200 178720	GREENWICH 4	-	Y	N/A
4	52m E	539603 178669	LTT - Thames Tunnel - NESR to Beckton SR1014	85.6	N	20762150 ↗
D	53m E	539610 178820	BLACKWALL TUNNEL (STHN APPR ROUTE) BH29	3.04	N	600612 ↗
E	64m E	539509 178860	TUNNEL AVE AREA 3	6.1	N	601865 ↗
F	67m S	539270 178700	S.T. C. GREENWICH TP1	-	Y	N/A
E	69m E	539517 178869	A102 BLACKWALL TUNNEL PC6	1.0	N	601618 ↗
G	72m NW	539200 178900	DEXTROSE PLANT BH 1 & 2 GREEN	18.0	N	599885 ↗
G	72m NW	539200 178900	DEXTROSE PLANT BH6,11,12 GREENWICH	10.24	N	599886 ↗
D	77m E	539631 178831	SOUTH EASTERN GAS BOARD BH18	2.43	N	600920 ↗
F	78m SW	539250 178690	S.T. C. GREENWICH 3	-	Y	N/A
H	81m E	539570 178880	BLACKWALL TUNNEL (STHN APPR ROUTE) BH26	3.04	N	600609 ↗
5	84m E	539620 178860	BLACKWALL TUNNEL (STHN APPR ROUTE) BH28	34.14	N	600611 ↗
F	85m SW	539240 178680	GREENWICH 3	-	Y	N/A
6	87m E	539625 178642	CALETOCK STREET BH10	7.92	N	600490 ↗
7	87m NE	539540 178890	BLACKWALL TUNNEL (STHN APPR ROUTE) BH18	14.17	N	600601 ↗
8	89m SE	539459 178665	LTT - Thames Tunnel - NESR to Beckton SR1015	85.8	N	20762151 ↗
I	90m SW	539120 178630	PIPERS WHARF 1-4	15.0	N	600583 ↗
I	90m SW	539120 178630	PIPERS WHARF 1-4	15.24	N	600584 ↗
D	91m E	539650 178820	BLACKWALL TUNNEL (STHN APPR ROUTE) BH31	18.29	N	600613 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
F	95m SW	539224 178669	LTT - Thames Tunnel - NESR to Beckton SR1016A	85.0	N	20762153 ↗
H	95m E	539590 178890	BLACKWALL TUNNEL (STHN APPR ROUTE) BH19	15.54	N	600602 ↗
J	99m E	539660 178770	BLACKWALL TUNNEL (STHN APPR ROUTE) BH32	7.62	N	600614 ↗
9	104m N	539250 178950	TUNNEL AVENUE	7.31	N	600664 ↗
10	108m E	539669 178727	PORT GREENWICH BH306	19.0	N	18468735 ↗
F	110m SW	539234 178654	LTT - Thames Tunnel - NESR to Beckton SR1016	10.0	N	20762152 ↗
K	111m NW	539170 178930	TUNNEL AVENUE	7.92	N	600665 ↗
11	117m SE	539600 178590	CALETOCK STREET TP.F	1.21	N	600496 ↗
F	117m S	539250 178650	S.T. C. GREENWICH 3A	-	Y	N/A
12	118m NE	539530 178920	BLACKWALL TUNNEL (STHN APPR ROUTE) BH16	18.29	N	600599 ↗
J	119m E	539680 178780	BLACKWALL TUNNEL (STHN APPR ROUTE) BH33	18.29	N	600615 ↗
K	120m NW	539170 178940	HOLLICKS WHARF, GREENWICH	8.83	N	602017 ↗
L	122m E	539630 178900	BLACKWALL TUNNEL (STHN APPR ROUTE) BH25	3.96	N	600608 ↗
13	122m SE	539561 178577	CALETOCK STREET BH2	15.42	N	600482 ↗
F	125m S	539240 178640	GREENWICH 3A	-	Y	N/A
14	129m NE	539492 178923	A102 BLACKWALL TUNNEL PC5	1.0	N	601639 ↗
15	130m SE	539430 178630	BLACKWALL LANE GREENWICH 1	11.25	N	13334847 ↗
M	131m E	539691 178816	SOUTH EASTERN GAS BOARD BH19	4.87	N	600921 ↗
16	132m SE	539495 178575	TUNNEL AVE AREA 4	6.1	N	601866 ↗
N	133m N	539302 178980	TRAINING CENTRE BH2	13.72	N	600462 ↗
O	135m SW	539177 178594	LTT - Thames Tunnel - NESR to Beckton SR1017A	85.8	N	20762155 ↗
17	135m E	539670 178880	BLACKWALL TUNNEL (STHN APPR ROUTE) BH24	7.8	N	600607 ↗
N	136m N	539280 178985	TRAINING CENTRE BH1	13.71	N	600461 ↗
O	136m SW	539178 178593	LTT - Thames Tunnel - NESR to Beckton SR1017	0.22	N	20762154 ↗
18	138m NE	539550 178940	BLACKWALL TUNNEL (STHN APPR ROUTE) BH17	8.1	N	600600 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
L	139m E	539642 178913	SOUTH EASTERN GAS BOARD BH16	3.65	N	600918 ↗
P	148m NW	539200 178980	THAMES BANK HOUSE, TUNNEL AVENUE	9.0	N	601995 ↗
M	149m E	539710 178800	BLACKWALL TUNNEL (STHN APPR ROUTE) BH34	7.62	N	600616 ↗
19	150m SE	539450 178580	ROTHBURY TERRACE 1	15.0	N	601675 ↗
20	150m NE	539510 178950	BLACKWALL TUNNEL (STHN APPR ROUTE) BH15	27.43	N	600598 ↗
P	154m N	539210 178990	HOLLICKS WHARF, GREENWICH	9.14	N	602018 ↗
21	159m E	539720 178740	BLACKWALL TUNNEL (STHN APPR ROUTE) BH35	22.86	N	600617 ↗
22	160m E	539720 178710	BLACKWALL TUNNEL (STHN APPR ROUTE) BH36	7.01	N	600618 ↗
23	162m E	539720 178830	HORN LANE GREENWICH SE10 11	-	Y	N/A
24	162m SE	539670 178580	CALETOCK STREET TP.E	1.21	N	600495 ↗
25	166m SE	539545 178533	CALETOCK STREET BH5	5.66	N	600485 ↗
Q	166m NE	539460 178950	TUNNEL AVENUE BH1	13.0	N	600862 ↗
26	169m E	539730 178770	HORN LANE GREENWICH SE10 12	-	Y	N/A
27	170m SE	539570 178530	CALETOCK STREET TP.A	0.91	N	600491 ↗
28	170m NE	539640 178950	HORN LANE GREENWICH SE10 10	-	Y	N/A
29	173m SE	539600 178531	CALETOCK STREET BH6	5.48	N	600486 ↗
30	176m E	539715 178884	SOUTH EASTERN GAS BOARD BH17	3.96	N	600919 ↗
31	177m SE	539420 178570	ROTHBURY TERRACE 2	15.0	N	601676 ↗
Q	178m NE	539475 178969	A102 BLACKWALL TUNNEL S47	15.0	N	601617 ↗
32	181m NE	539500 178980	BLACKWALL TUNNEL (STHN APPR ROUTE) BH14	9.14	N	600597 ↗
R	183m SE	539630 178530	CALETOCK STREET TP.B	0.6	N	600492 ↗
S	190m E	539750 178710	BLACKWALL TUNNEL (STHN APPR ROUTE) BH37A	27.28	N	600619 ↗
S	190m E	539750 178710	BLACKWALL TUNNEL (STHN APPR ROUTE) BH37	15.54	N	600620 ↗
R	190m SE	539646 178530	CALETOCK STREET BH7	5.97	N	600487 ↗
33	194m NE	539670 178960	BLACKWALL TUNNEL (STHN APPR ROUTE) BH23	3.81	N	600606 ↗
34	195m NW	539100 179000	HOLLICKS WHARF, GREENWICH	9.14	N	602020 ↗
35	195m N	539200 179030	THAMES BANK HOUSE, TUNNEL AVENUE	9.0	N	601994 ↗
Q	196m NE	539459 178982	A102 BLACKWALL TUNNEL PC4	1.0	N	601638 ↗



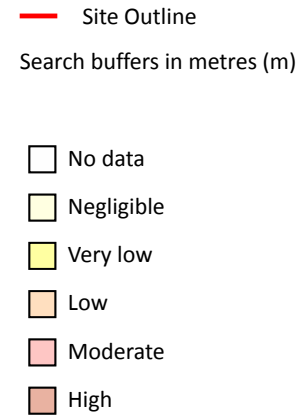
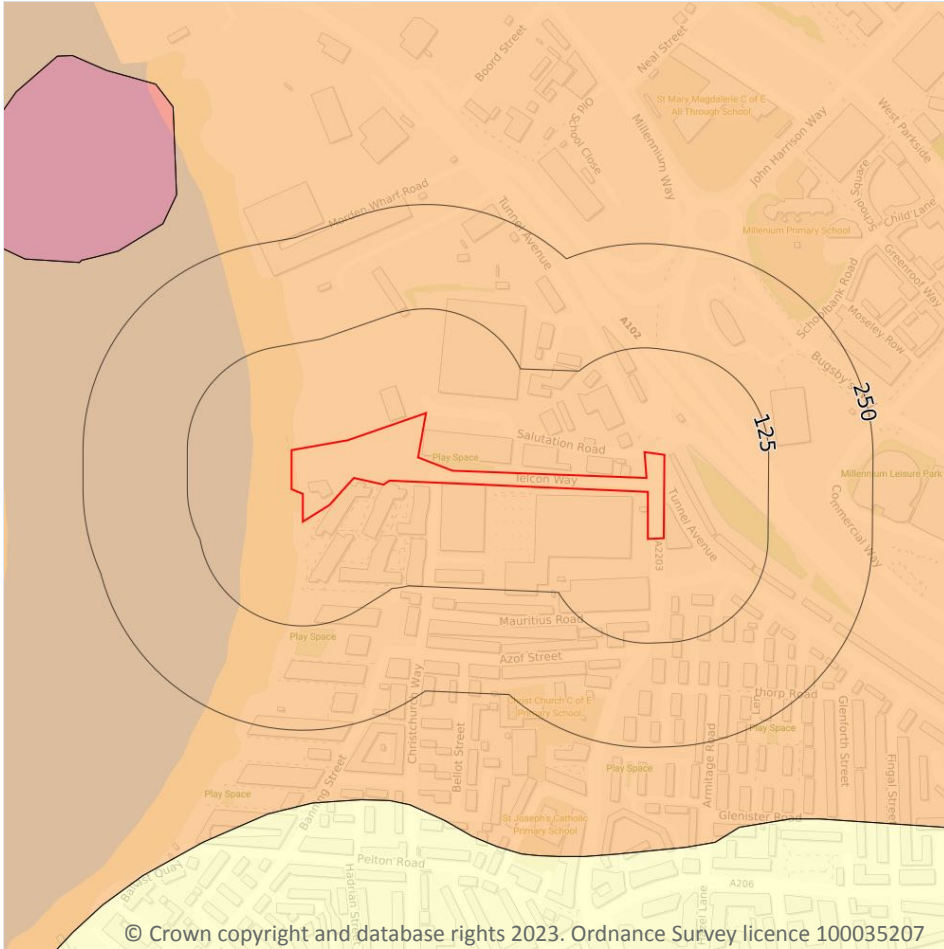
ID	Location	Grid reference	Name	Length	Confidential	Web link
Q	199m NE	539470 178990	BLACKWALL TUNNEL (STHN APPR ROUTE) BH13	9.14	N	600596 ↗
36	199m E	539760 178740	BLACKWALL TUNNEL (STHN APPR ROUTE) BH38	6.09	N	600621 ↗
T	209m SW	539130 178510	GREENWICH DEPOT BH5,5A	9.14	N	600443 ↗
37	211m E	539760 178870	HORN LANE GREENWICH SE10 9	-	Y	N/A
38	219m NE	539650 179000	BLACKWALL TUNNEL (STHN APPR ROUTE) BH22	3.65	N	600605 ↗
39	220m SW	538963 178574	THAMES TUNNEL - PHASE 2: OVER-WATER BOREHOLES SR2016	70.34	N	20762661 ↗
T	220m SW	539110 178500	GREENWICH DEPOT BH4	9.14	N	600442 ↗
40	221m N	539280 179070	HOLLICKS WHARF, GREENWICH	14.93	N	602019 ↗
41	221m SE	539534 178478	CALETOCK STREET BH1	15.39	N	600481 ↗
42	226m NW	539090 179030	PORTLAND CEMENT WORKS EAST GREENWICH	19.84	N	599742 ↗
43	228m SE	539670 178500	CALETOCK STREET TP.I	0.91	N	600499 ↗
U	230m SE	539712 178526	CALETOCK STREET BH3	15.39	N	600483 ↗
V	232m E	539790 178670	BLACKWALL TUNNEL (STHN APPR ROUTE) BH39	7.62	N	600622 ↗
V	232m E	539790 178670	BLACKWALL TUNNEL (STHN APPR ROUTE) BH41	5.48	N	600624 ↗
V	232m E	539790 178670	BLACKWALL TUNNEL (STHN APPR ROUTE) BH40	6.4	N	600623 ↗
44	232m S	539255 178525	TUNNEL AVE AREA 5	6.1	N	601867 ↗
W	234m NE	539411 179040	TUNNEL AVE AREA 2	6.1	N	601864 ↗
W	239m NE	539416 179043	A102 BLACKWALL TUNNEL PC3	1.0	N	601637 ↗
T	240m SW	539120 178480	GREENWICH DEPOT BH6	11.15	N	600444 ↗
45	240m NE	539460 179030	BLACKWALL TUNNEL (STHN APPR ROUTE) BH12	13.72	N	600595 ↗
U	240m SE	539720 178520	CALETOCK STREET TP.C	0.91	N	600493 ↗
T	241m SW	539100 178480	GREENWICH DEPOT BH7	10.85	N	600445 ↗
46	242m N	539300 179090	TUNNEL AVENUE GREENWICH	7.62	N	600663 ↗
47	249m E	539809 178690	LTT - Thames Tunnel - NESR to Beckton SR1013	85.5	N	20762060 ↗
48	249m SE	539560 178450	CALETOCK STREET TP.G	1.21	N	600497 ↗
49	249m NE	539498 179049	BLACKWALL LANE 1	-	Y	N/A
50	250m SE	539657 178469	CALETOCK STREET BH9	6.27	N	600489 ↗



This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

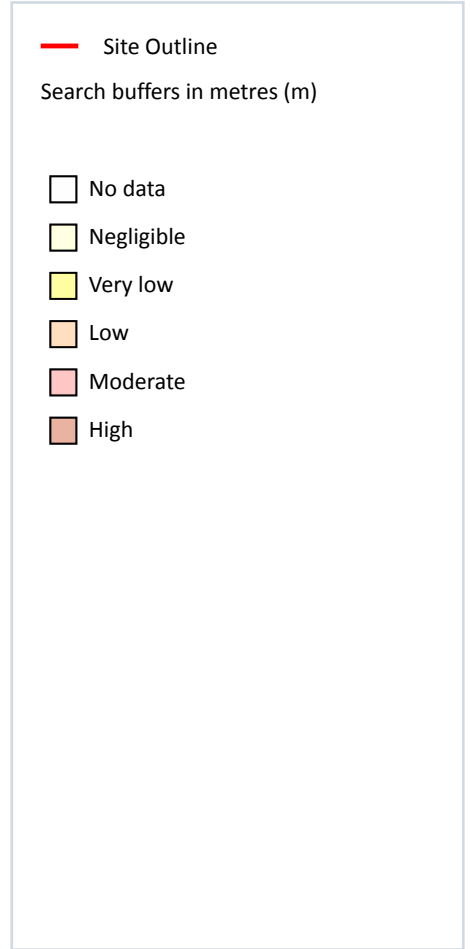
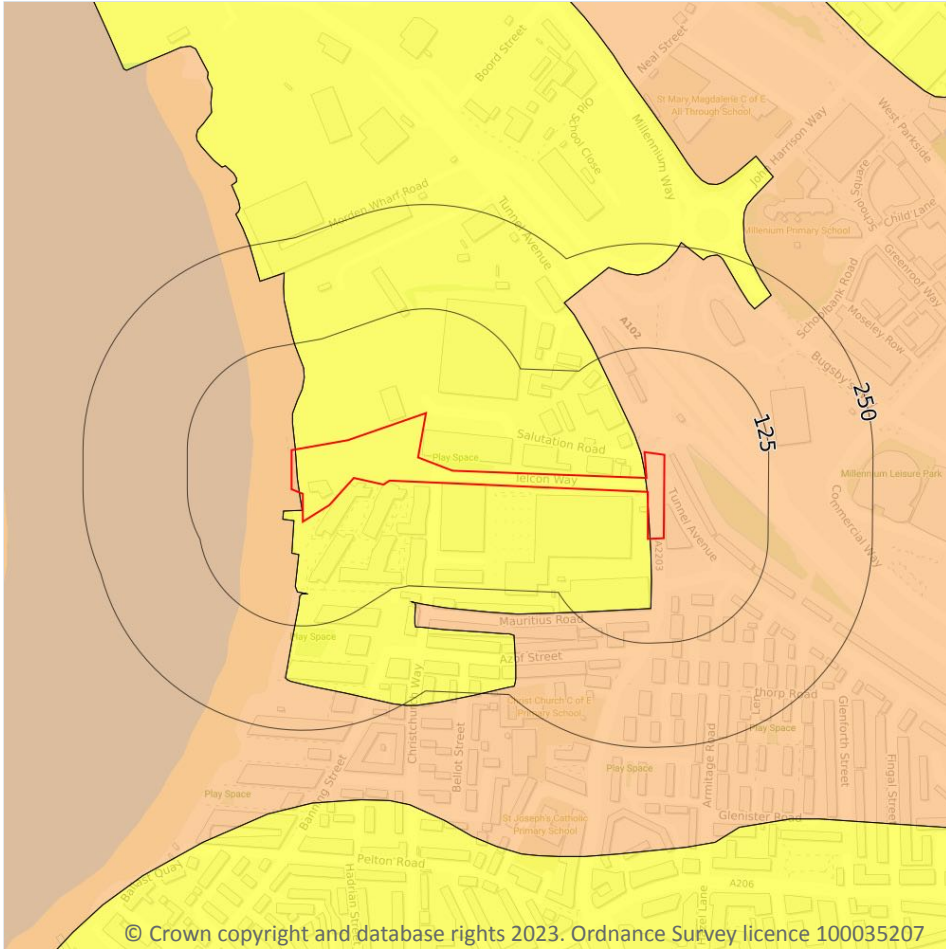
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 205](#) >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

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 206](#) >

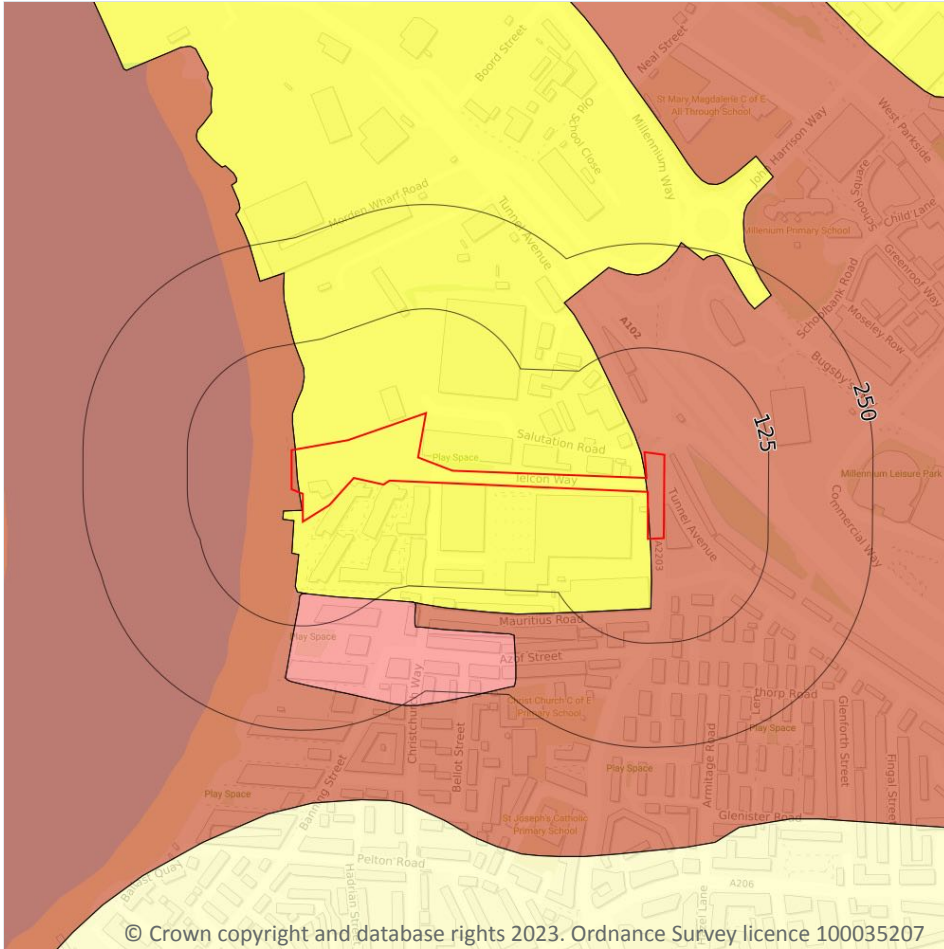
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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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 208](#) >

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.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— 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 210 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

2

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 211](#) >

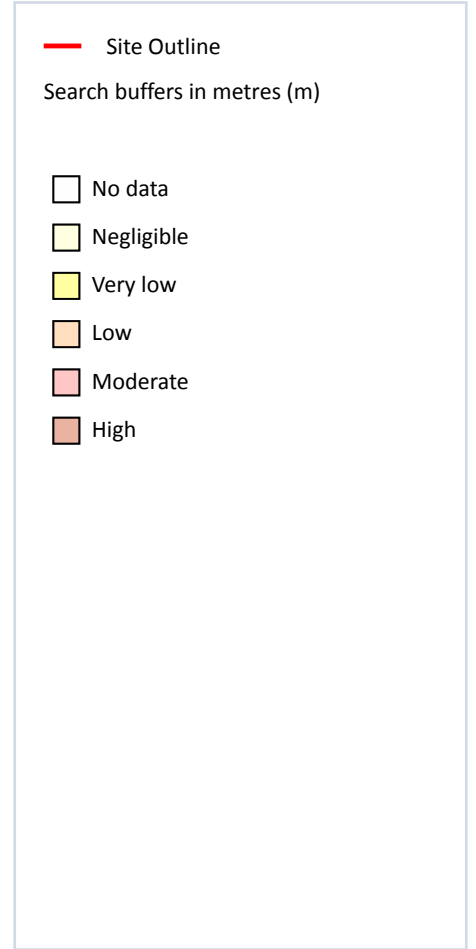
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 213 >](#)

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



18.1 BritPits

Records within 500m

1

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

Features are displayed on the Mining and ground workings map on [page 215](#) >

ID	Location	Details	Description
E	334m SW	Name: Granite Wharf Address: Greenwich, LONDON, Greater London Commodity: Crushed Rock Status: Inactive	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	80
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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 215 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Water Body	1894	1:10560
2	On site	Unspecified Wharves	1894	1:10560
A	On site	Unspecified Wharf	1882	1:10560
A	On site	Unspecified Wharf	1894	1:10560
A	On site	Unspecified Wharf	1894	1:10560
A	On site	Unspecified Wharf	1894	1:10560
A	On site	Unspecified Wharf	1973	1:10000
A	On site	Unspecified Wharf	1955	1:10560
A	On site	Unspecified Wharf	1967	1:10560
A	On site	Unspecified Wharf	1948	1:10560
B	On site	Unspecified Wharf	1938	1:10560
B	On site	Unspecified Wharf	1914	1:10560
C	On site	Unspecified Wharf	1899	1:10560
C	On site	Unspecified Wharf	1899	1:10560
D	1m NW	Unspecified Ground Workings	1914	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	3m W	Unspecified Wharf	1894	1:10560
A	3m W	Unspecified Wharf	1979	1:10000
A	3m W	Unspecified Wharf	1994	1:10000
E	12m W	Unspecified Wharves	1894	1:10560
D	19m NW	Unspecified Ground Workings	1938	1:10560
D	19m N	Unspecified Ground Workings	1938	1:10560
3	19m W	Unspecified Wharf	1989	1:10000
F	28m SW	Unspecified Wharf	1994	1:10000
F	38m SW	Unspecified Wharf	1973	1:10000
F	38m SW	Unspecified Wharf	1955	1:10560
F	38m SW	Unspecified Wharf	1967	1:10560
G	43m SW	Unspecified Wharf	1938	1:10560
H	51m SW	Brick Field	1882	1:10560
C	56m SW	Ponds	1882	1:10560
I	86m E	Pond	1898	1:10560
H	87m SW	Brick Field	1898	1:10560
G	87m SW	Unspecified Wharf	1914	1:10560
J	100m SW	Ponds	1882	1:10560
I	110m E	Pond	1882	1:10560
5	112m N	Pond	1882	1:10560
E	115m SW	Unspecified Wharves	1973	1:10000
E	115m SW	Unspecified Wharf	1955	1:10560
E	115m SW	Unspecified Wharf	1967	1:10560
E	126m SW	Unspecified Wharf	1948	1:10560
J	129m SW	Ponds	1898	1:10560
E	137m SW	Unspecified Wharf	1989	1:10000
E	141m SW	Unspecified Wharf	1979	1:10000
E	142m SW	Unspecified Wharves	1894	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	143m SW	Unspecified Wharf	1882	1:10560
K	154m NW	Unspecified Wharf	1979	1:10000
K	154m NW	Unspecified Wharf	1994	1:10000
K	157m NW	Unspecified Wharf	1938	1:10560
K	157m NW	Unspecified Wharf	1914	1:10560
L	167m E	Water Bodies	1894	1:10560
L	169m E	Pond	1894	1:10560
E	170m SW	Unspecified Pit	1882	1:10560
6	183m SW	Unspecified Wharves	1894	1:10560
7	198m W	Unspecified Wharf	1882	1:10560
E	201m SW	Unspecified Wharf	1938	1:10560
E	201m SW	Unspecified Wharf	1914	1:10560
K	205m NW	Unspecified Wharf	1899	1:10560
K	205m NW	Unspecified Wharf	1899	1:10560
8	207m NW	Unspecified Wharf	1894	1:10560
E	207m SW	Unspecified Ground Workings	1898	1:10560
E	208m SW	Unspecified Wharf	1948	1:10560
E	209m SW	Unspecified Wharves	1894	1:10560
K	209m NW	Unspecified Wharf	1967	1:10560
K	209m NW	Unspecified Wharf	1955	1:10560
K	209m NW	Unspecified Wharf	1973	1:10000
E	210m SW	Unspecified Wharf	1973	1:10000
E	210m SW	Unspecified Wharf	1955	1:10560
E	210m SW	Unspecified Wharf	1967	1:10560
E	210m SW	Unspecified Wharf	1989	1:10000
E	211m SW	Unspecified Wharf	1979	1:10000
E	213m SW	Unspecified Wharves	1899	1:10560
E	213m SW	Unspecified Wharves	1899	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
M	228m W	Unspecified Wharf	1894	1:10560
K	230m NW	Unspecified Wharf	1894	1:10560
K	235m NW	Unspecified Wharf	1994	1:10000
K	239m NW	Unspecified Wharf	1979	1:10000
M	240m W	Unspecified Wharf	1894	1:10560
K	242m NW	Unspecified Wharf	1955	1:10560
K	242m NW	Unspecified Wharf	1948	1:10560
N	243m W	Unspecified Wharves	1894	1:10560
9	250m NW	Ponds	1882	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

27

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

Features are displayed on the Mining and ground workings map on [page 215 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
12	353m N	Tunnel	1967	1:10560
AK	686m N	Tunnel	1973	1:10000
AK	686m N	Tunnel	1994	1:10000
AK	686m N	Tunnel	1989	1:10000
AK	686m N	Tunnel	1979	1:10000
-	885m N	Tunnel	1915	1:10560
-	890m N	Tunnel	1940	1:10560
-	893m N	Tunnel	1994	1:10000
-	893m N	Tunnel	1989	1:10000
-	902m N	Tunnel	1938	1:10560
-	930m SW	Tunnel	1973	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	930m SW	Tunnel	1955	1:10560
-	930m SW	Tunnel	1967	1:10560
-	930m SW	Tunnel	1994	1:10000
-	930m SW	Tunnel	1989	1:10000
-	930m SW	Tunnel	1979	1:10000
-	930m SW	Tunnel	1938	1:10560
-	930m SW	Tunnel	1914	1:10560
-	936m SW	Tunnel	1940	1:10560
-	942m SW	Tunnel	1938	1:10560
-	942m SW	Tunnel	1914	1:10560
-	956m SW	Tunnel	1973	1:10000
-	956m SW	Tunnel	1955	1:10560
-	956m SW	Tunnel	1967	1:10560
-	956m SW	Tunnel	1994	1:10000
-	956m SW	Tunnel	1989	1:10000
-	956m SW	Tunnel	1979	1:10000

This 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

20

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 215 >](#)

ID	Location	Name	Commodity	Class	Likelihood
4	76m SE	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
17	439m E	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
22	554m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
26	644m SE	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
27	665m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
29	699m S	Not available	Chalk	C	Underground mine 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.
30	700m SE	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
34	744m SW	Greenwich	Sand	C	Underground mine 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.
35	745m S	Greenwich	Chalk/Sand	C	Underground mine 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.
37	780m S	Greenwich	Sand/Chalk	C	Underground mine 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.
-	794m NE	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
39	808m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AR	816m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
40	816m SE	Not available	Chalk	C	Underground mine 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.
41	819m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	842m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
44	846m SE	Not available	Chalk	C	Underground mine 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.



ID	Location	Name	Commodity	Class	Likelihood
-	862m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	867m S	Greenwich	Sand/Chalk	C	Underground mine 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.
-	996m SW	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

1

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.

Location	Mineral type
86m SW	Stone

This data is sourced from Groundsure.

18.10 Mining record office plans

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

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

This data is sourced from Groundsure.

18.11 BGS mine plans

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

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

This data is sourced from Groundsure.

18.12 Coal mining

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

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

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

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.

19.5 National karst database

Records within 500m

0

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

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

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

This data is sourced from the British Geological Survey.



20 Radon



— 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 228](#) >

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

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	No data	No data	No data	No data	No data	No data	No data
On site	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

19

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	15	2.6	319	219	0.5	61	88	26	29
On site	16	2.8	339	233	0.6	64	89	27	31
On site	16	2.8	337	232	0.6	64	90	27	32
On site	16	2.8	321	221	0.6	62	87	26	29
On site	17	3	464	319	0.7	65	96	28	42
On site	17	3	456	313	0.7	66	97	28	42
On site	18	3.2	293	201	0.8	66	77	28	30



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	19	3.3	336	231	0.9	69	89	30	38
On site	21	3.7	373	256	1.2	73	96	33	45
14m W	18	3.2	612	420	0.9	66	99	29	54
14m W	19	3.3	565	388	0.8	66	103	27	58
16m N	15	2.6	317	218	0.5	60	88	25	28
19m SW	18	3.2	505	347	0.8	66	97	29	44
23m E	16	2.8	311	214	0.5	61	86	26	28
34m SW	17	3	563	387	0.8	61	81	27	49
39m E	22	3.8	306	210	1.7	75	74	33	41
39m E	20	3.5	271	186	1.2	71	67	30	32
40m E	23	4	330	227	1.8	76	80	34	45
41m E	19	3.3	372	256	0.8	68	98	30	39

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	1
---------------------------	----------

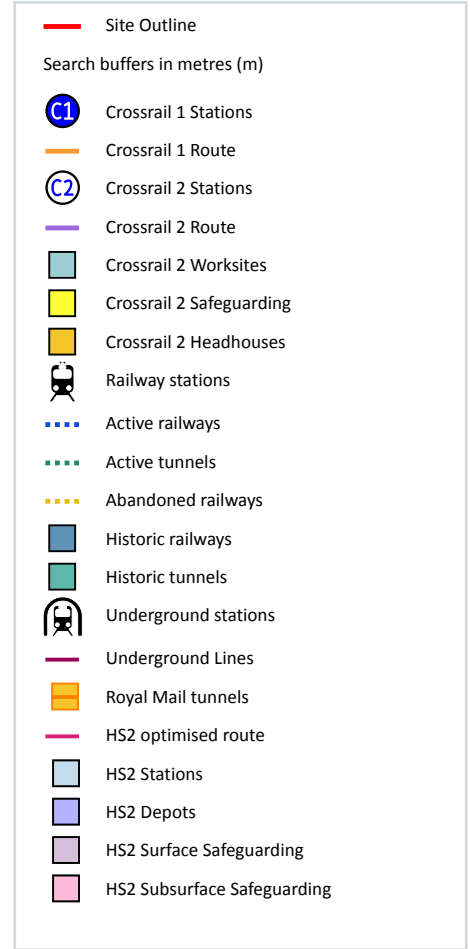
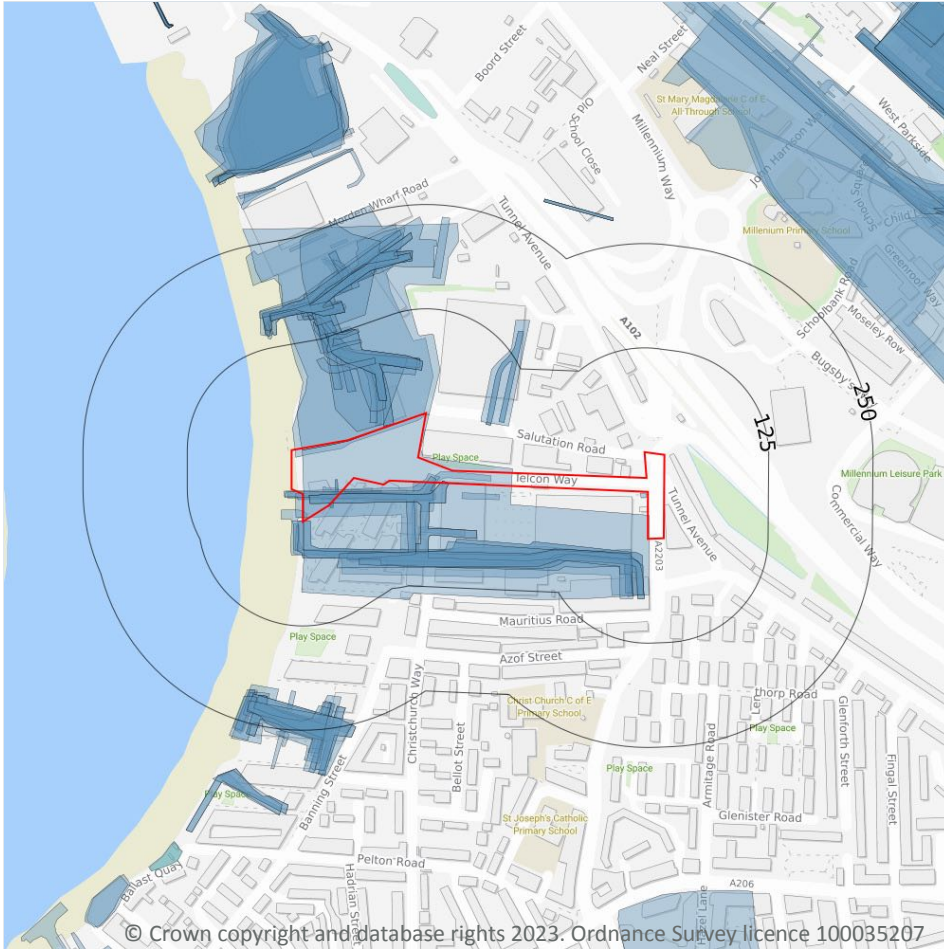
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
34m E	15.1	0.5	59.7	87.9	25.1	313.1	27.6	Topsoil

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

51

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 232 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1951	2500
On site	Railway Sidings	1951	1250
On site	Railway Sidings	1896	2500
On site	Railway Sidings	1894	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1920	10560
On site	Railway Sidings	1899	10560
On site	Railway Sidings	1948	10560
0m W	Railway Sidings	1951	1250
1m NW	Railway Sidings	1899	10560
1m W	Railway Sidings	1966	1250
1m W	Railway Sidings	1951	2500
2m E	Tramway Sidings	1916	2500
4m NW	Railway Sidings	1916	2500
4m NW	Railway Sidings	1894	10560
5m NW	Railway Sidings	1896	2500
6m W	Railway Sidings	1916	2500



Location	Land Use	Year of mapping	Mapping scale
7m W	Railway Sidings	1951	1250
9m NW	Railway Sidings	1894	10560
11m SE	Railway Sidings	1916	2500
21m NW	Railway Sidings	1948	10560
26m SE	Railway Sidings	1894	10560
30m NW	Railway Sidings	1938	10560
30m NW	Railway Sidings	1920	10560
56m NE	Railway Sidings	1967	10560
56m NE	Railway Sidings	1951	1250
56m NE	Railway Sidings	1966	1250
76m NW	Railway Sidings	1872	10560
102m NW	Railway Sidings	1951	2500
102m NW	Railway Sidings	1951	1250
105m NW	Railway Sidings	1872	10560
127m NW	Railway Sidings	1955	10560
135m NW	Railway Sidings	1882	10560
146m NW	Railway Sidings	1899	10560
155m NW	Railway Sidings	1894	10560
162m N	Railway Sidings	1955	10560
177m NW	Railway Sidings	1953	2500
180m NW	Tramway Sidings	1953	2500
181m NW	Tramway Sidings	1951	1250
203m SW	Railway Sidings	1894	10560
203m SW	Railway Sidings	1896	2500
209m SW	Railway Sidings	1916	2500
210m SW	Railway Sidings	1894	10560
210m SW	Railway Sidings	1894	10560
214m SW	Railway Sidings	1899	10560



Location	Land Use	Year of mapping	Mapping scale
215m SW	Railway Sidings	1938	10560
215m SW	Railway Sidings	1920	10560
217m SW	Railway Sidings	1894	10560
223m SW	Railway Sidings	1948	10560
224m NW	Railway Sidings	1916	2500
234m NW	Railway Sidings	1916	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.



22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Client Ref: MES2310CC
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Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1949-1951

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1949	Revised 1951
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled 1934	Levelled 1934

Surveyed 1949	Surveyed 1951
Revised 1949	Revised 1951
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled 1934	Levelled 1934

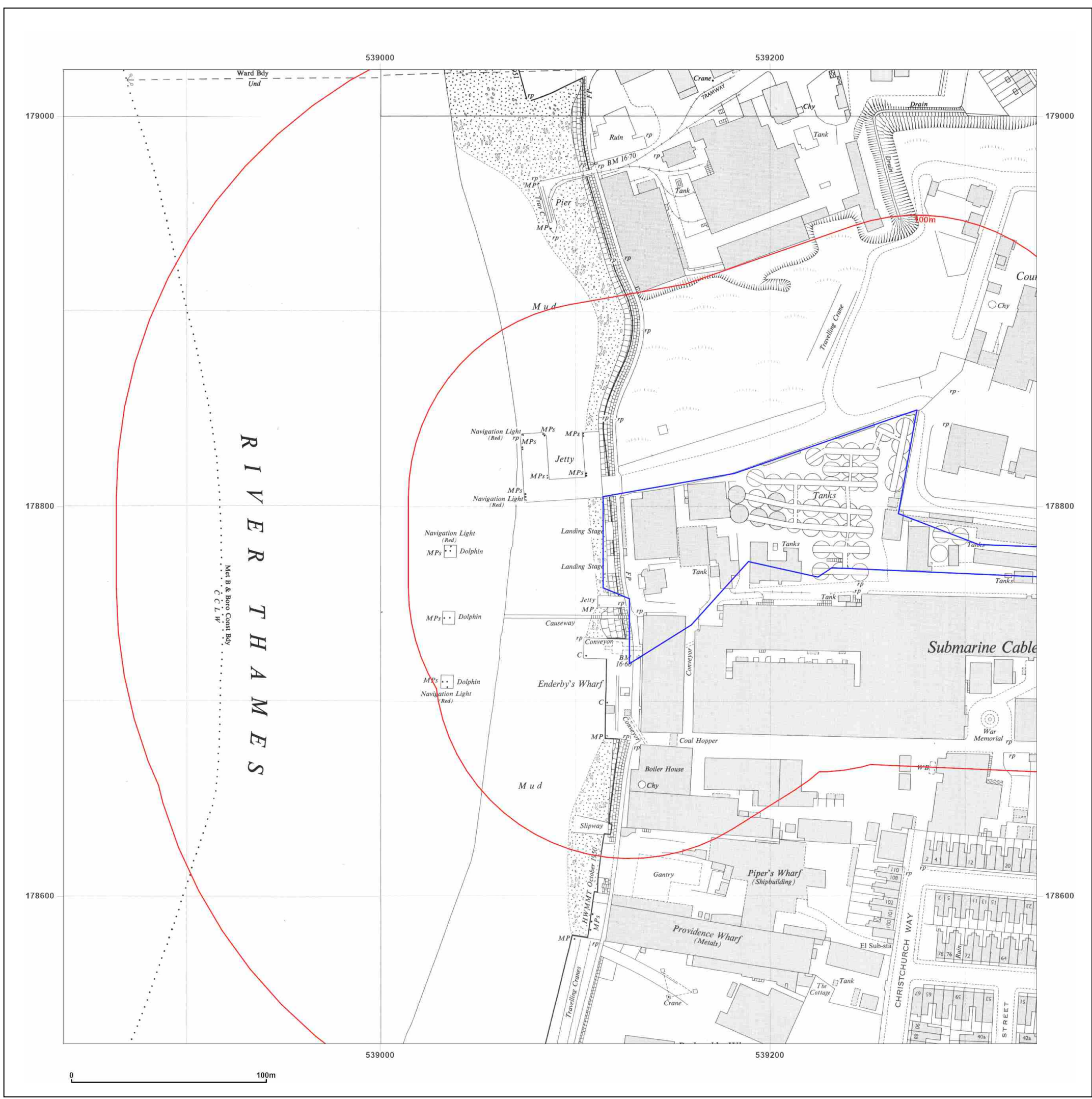


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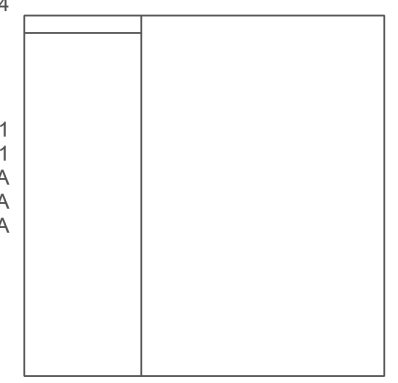
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Edition N/A
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Revised 1951
Edition N/A
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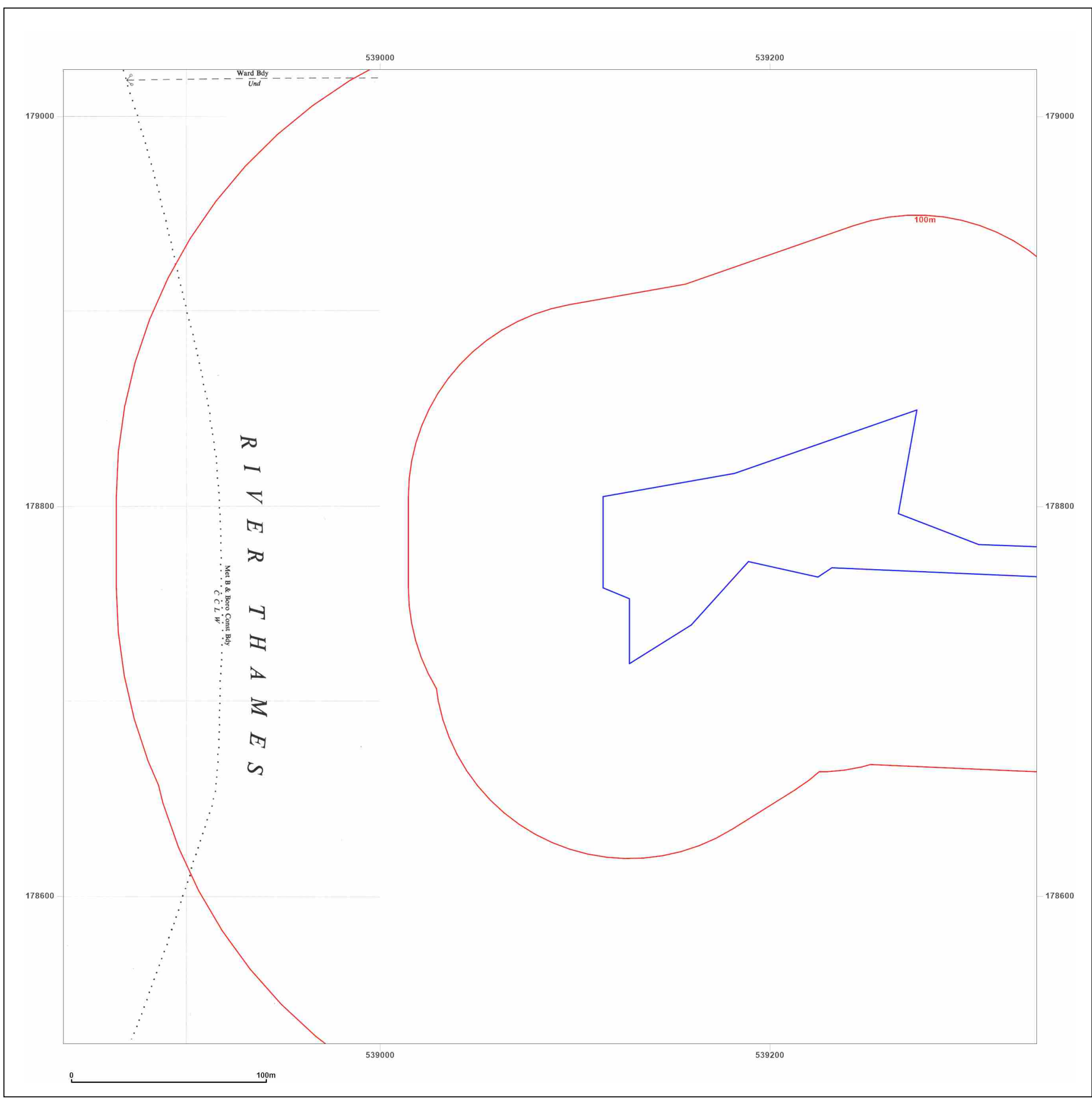


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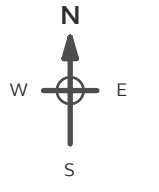


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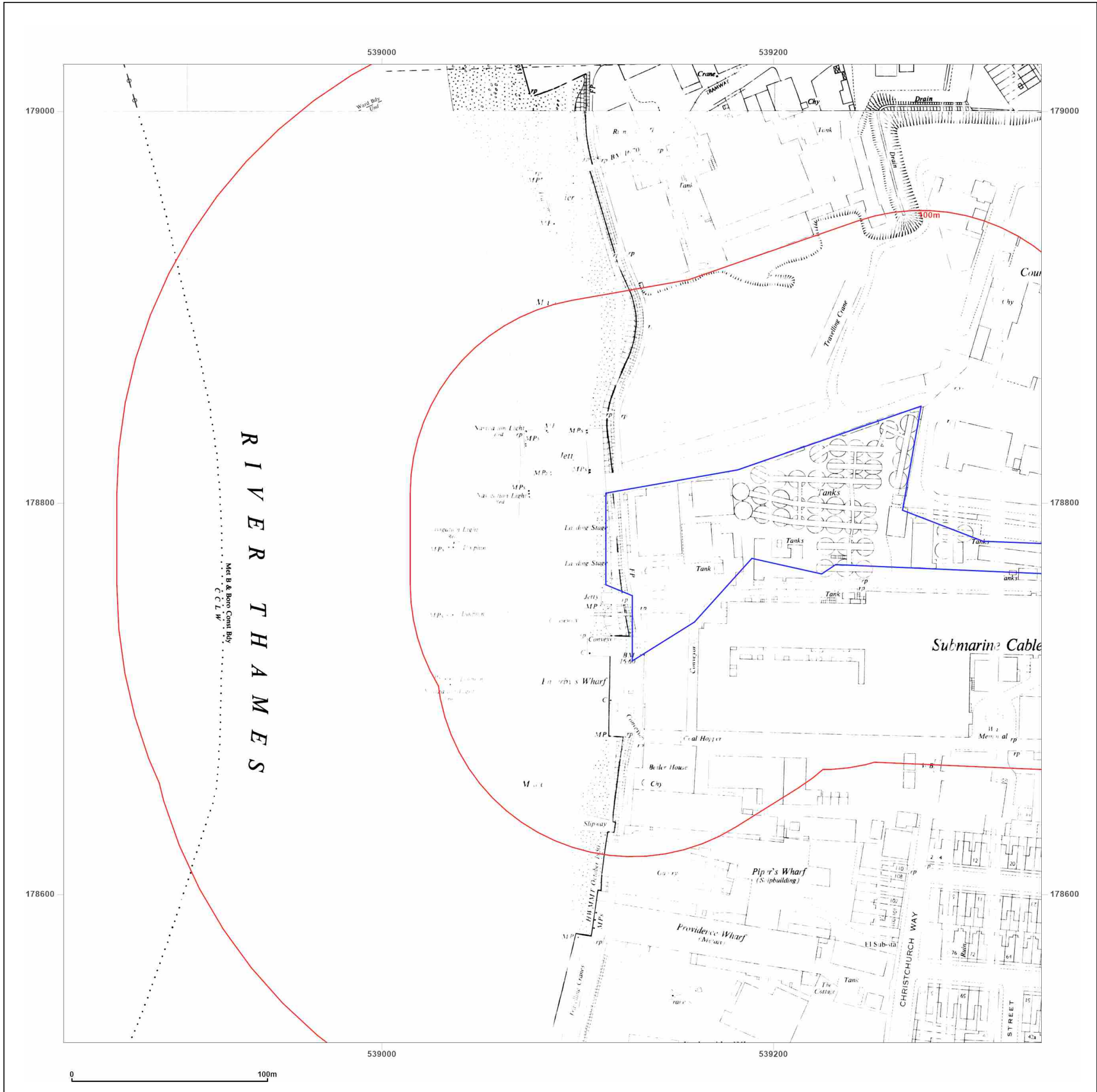
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Grid Ref: 539087, 178774

Map Name: National Grid
Map date: 1950-1952
Scale: 1:1,250
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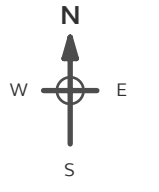
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Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
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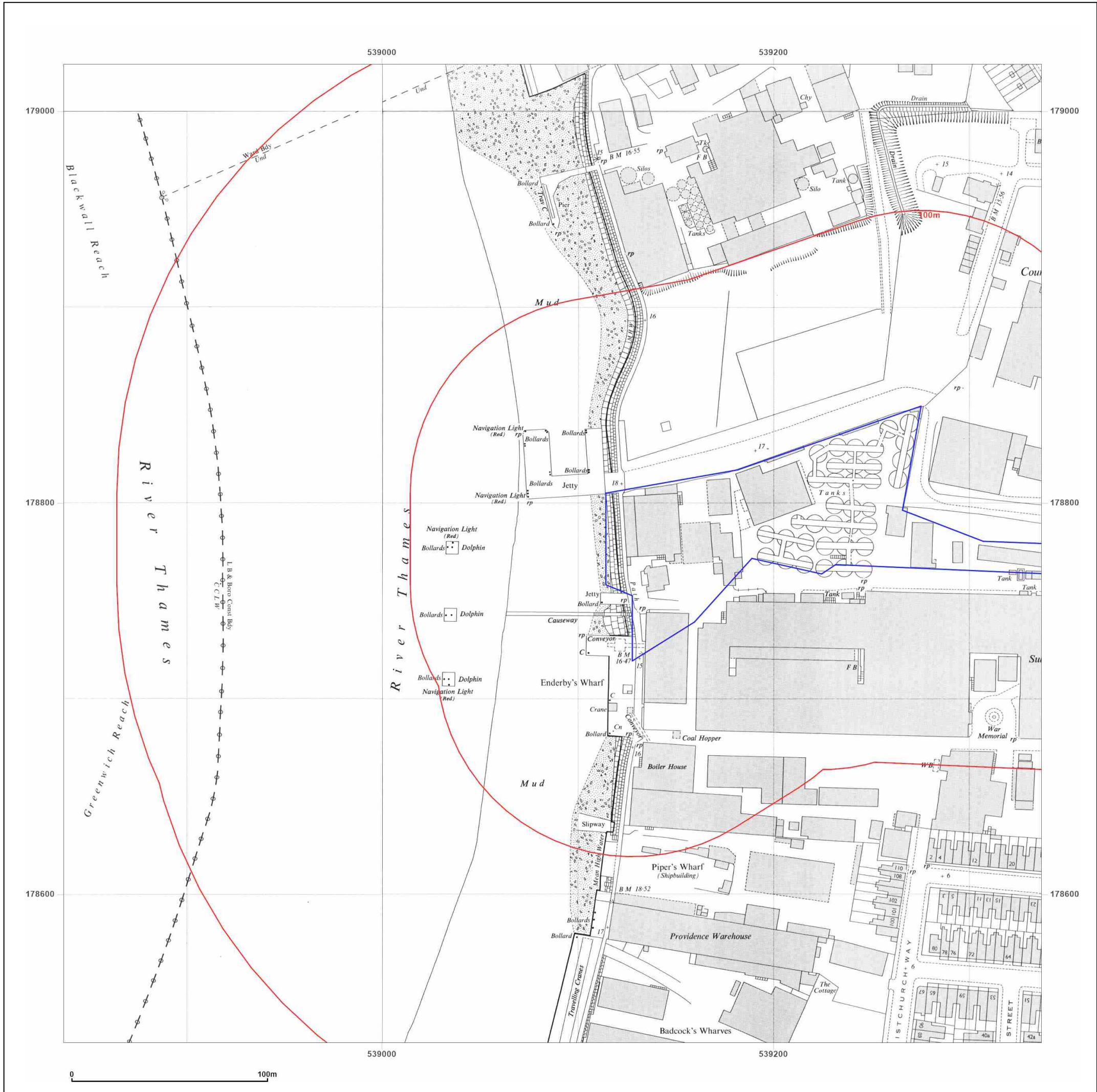
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Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1968-1973

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1972	Revised 1967
Edition N/A	Edition N/A
Copyright N/A	Copyright 1968
Levelled N/A	Levelled 1952

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Copyright N/A
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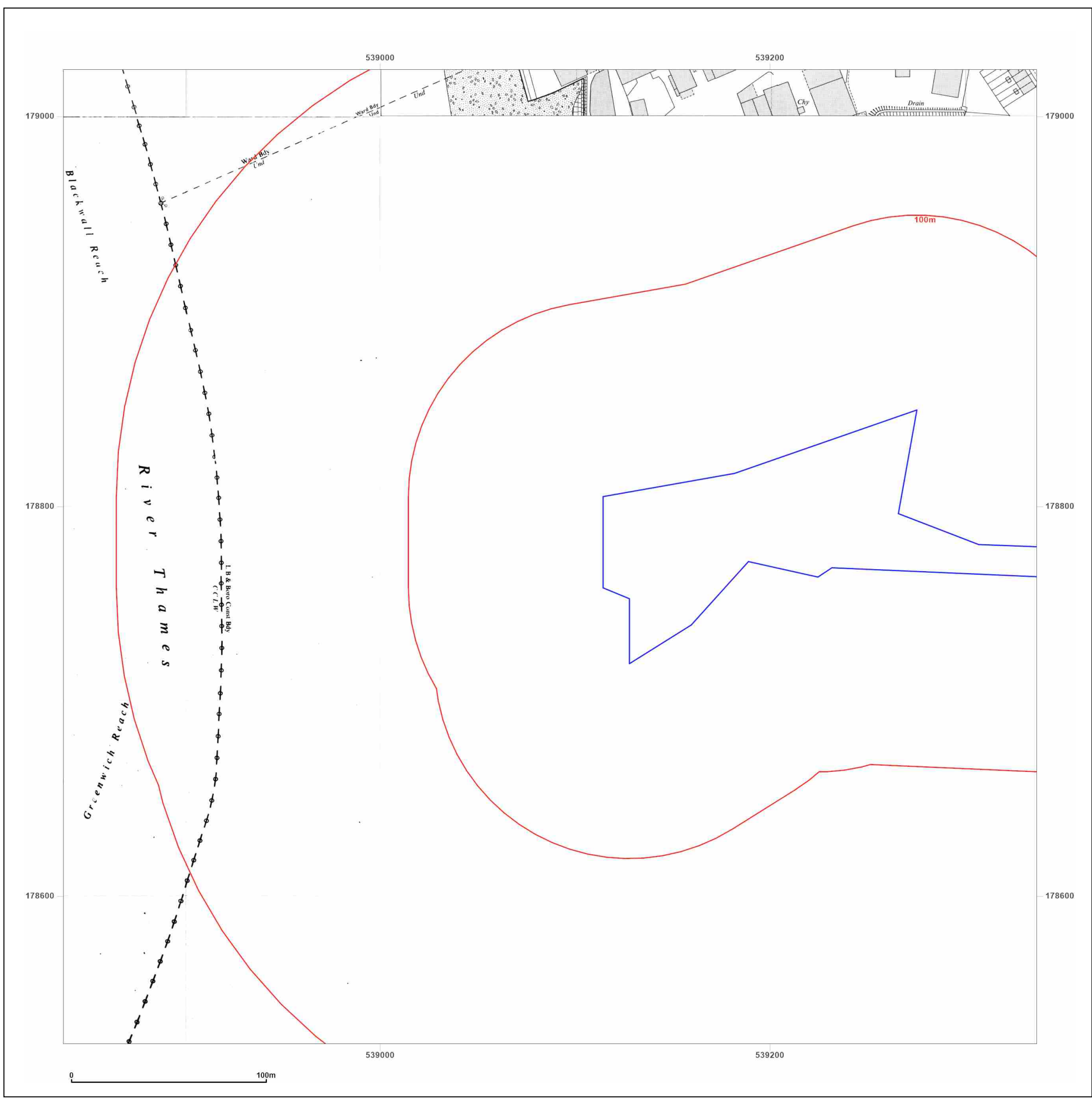


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Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1973-1974

Scale: 1:1,250

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Revised N/A	Revised N/A
Edition N/A	Edition N/A
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Revised 1973
Edition N/A
Copyright 1974
Levelled 1971

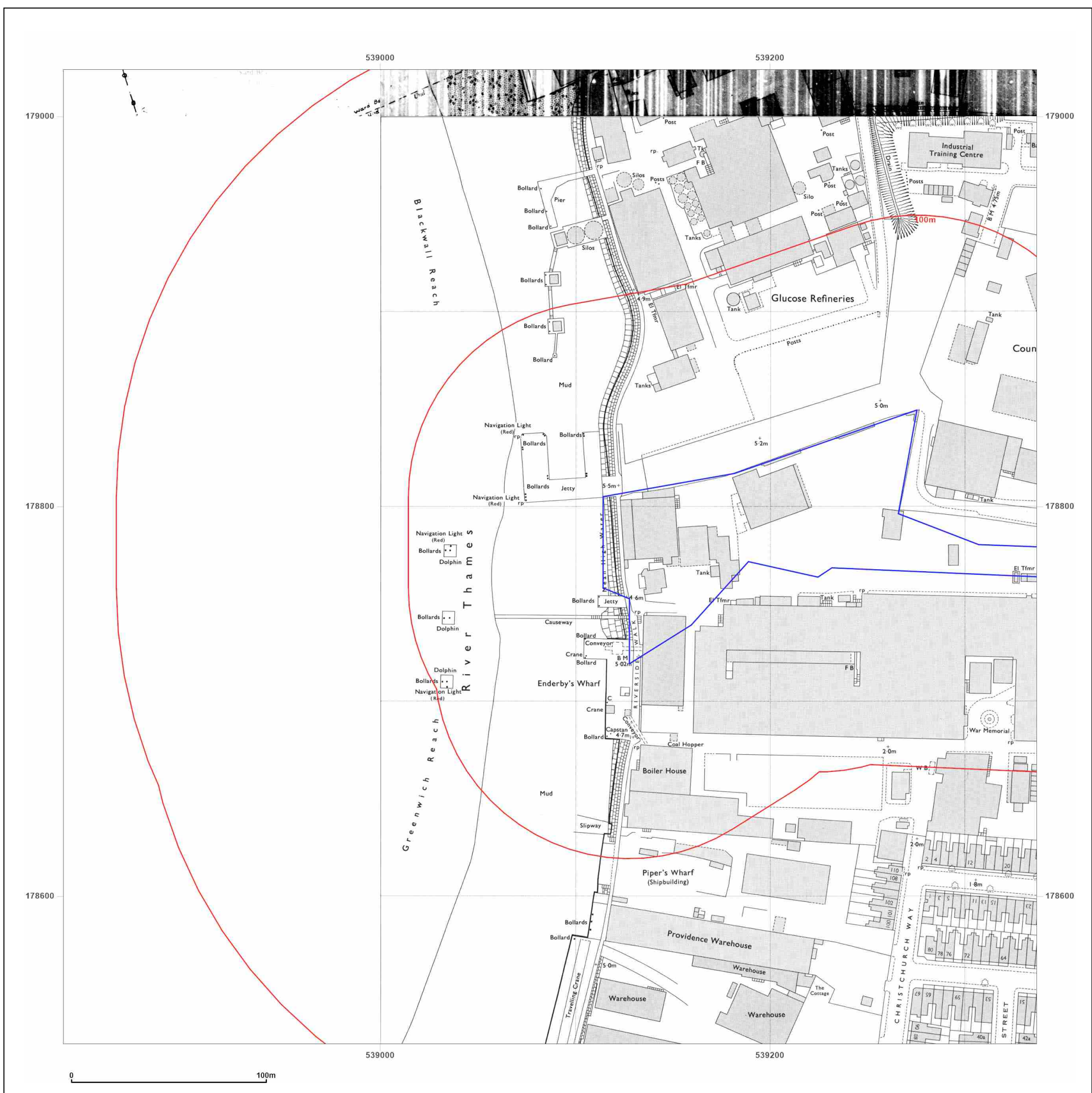


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Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1980-1982

Scale: 1:1,250

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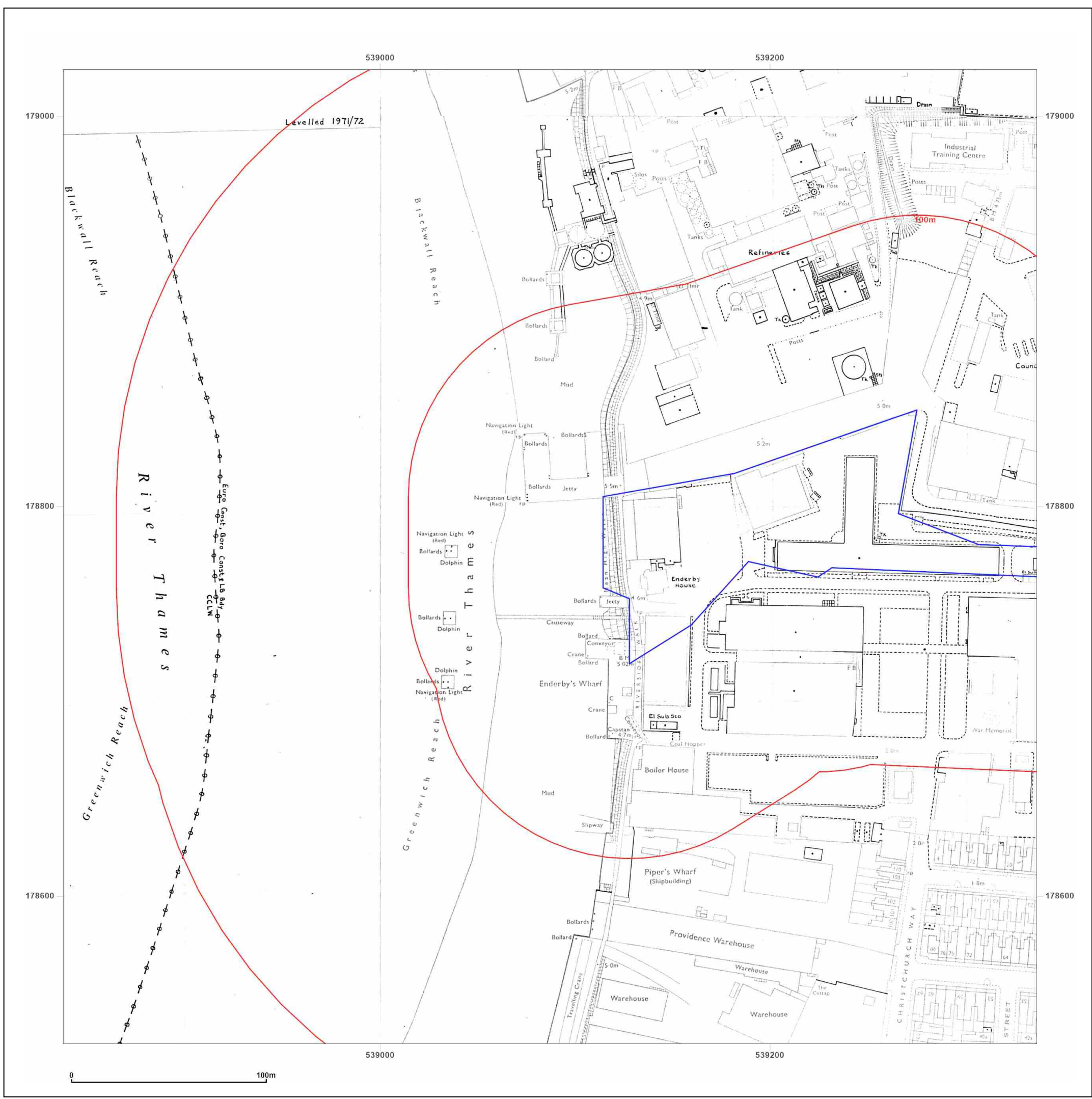


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Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1982-1984

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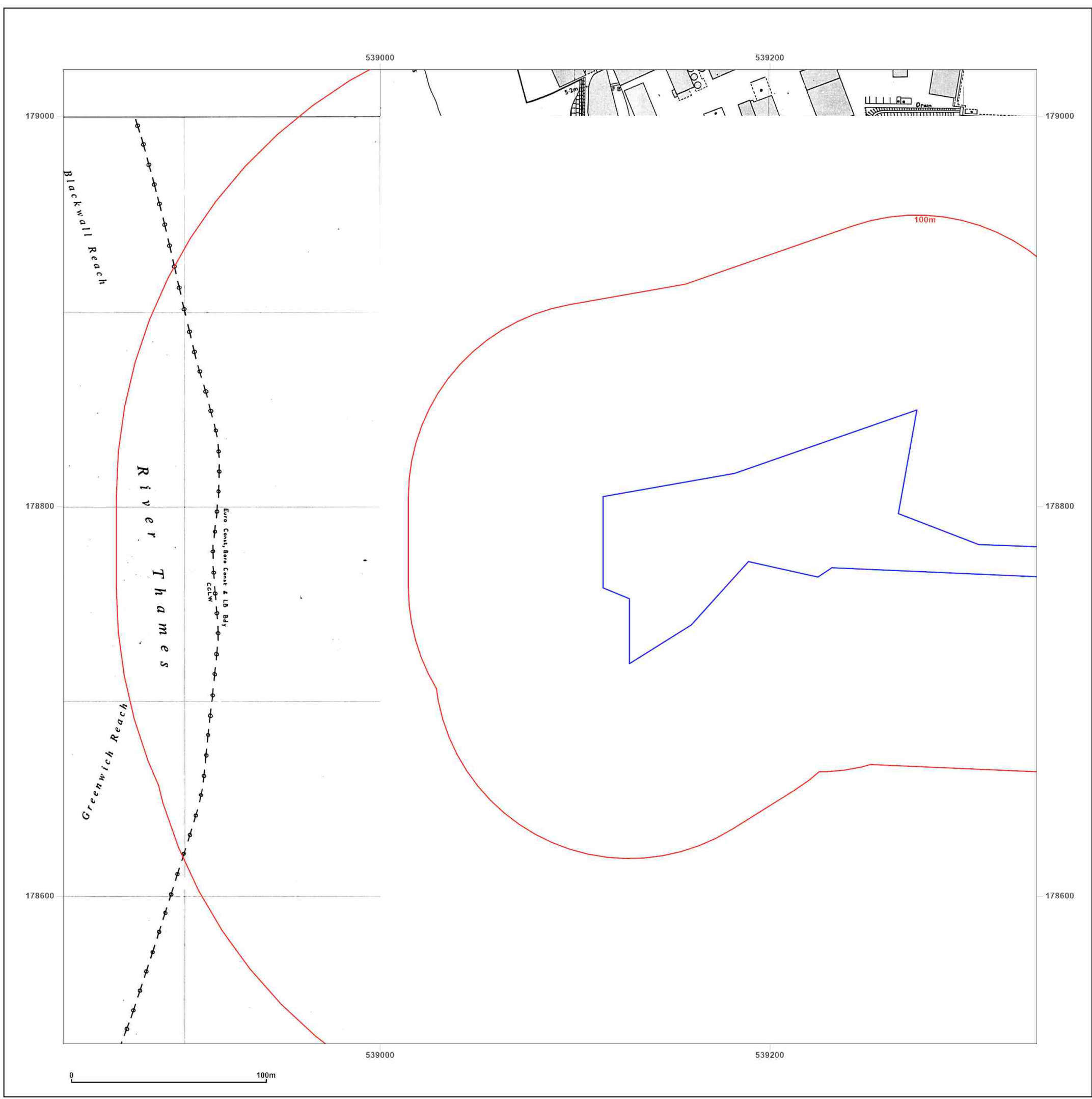


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Site Details:

FORMER ALCATEL WORKS,
CHRISTHURCH WAY,
GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1990-1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1972	Surveyed N/A
Revised 1990	Revised N/A
Edition N/A	Edition N/A
Copyright 1990	Copyright 1991
Levelled 1972	Levelled N/A

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

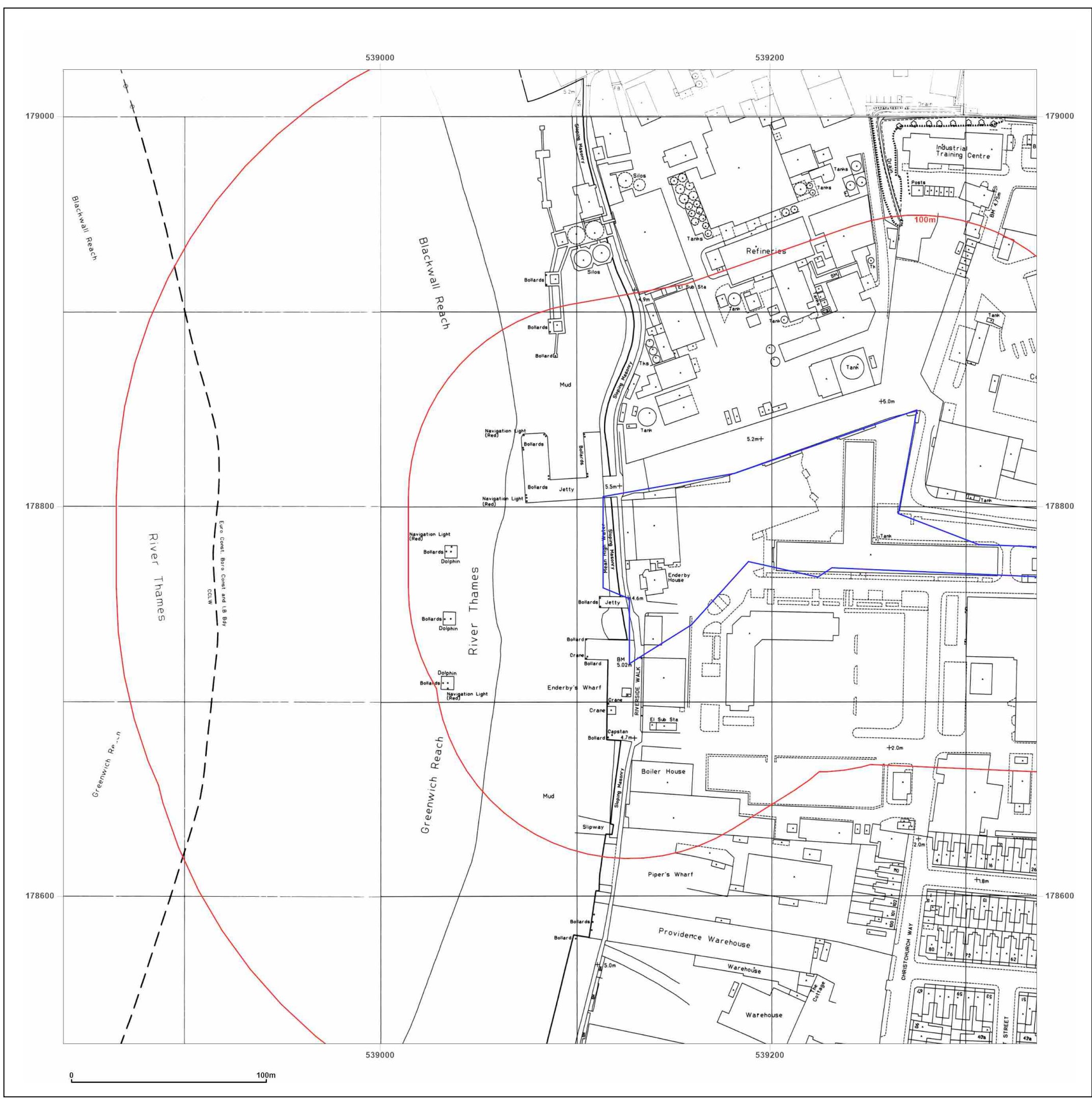


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GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

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

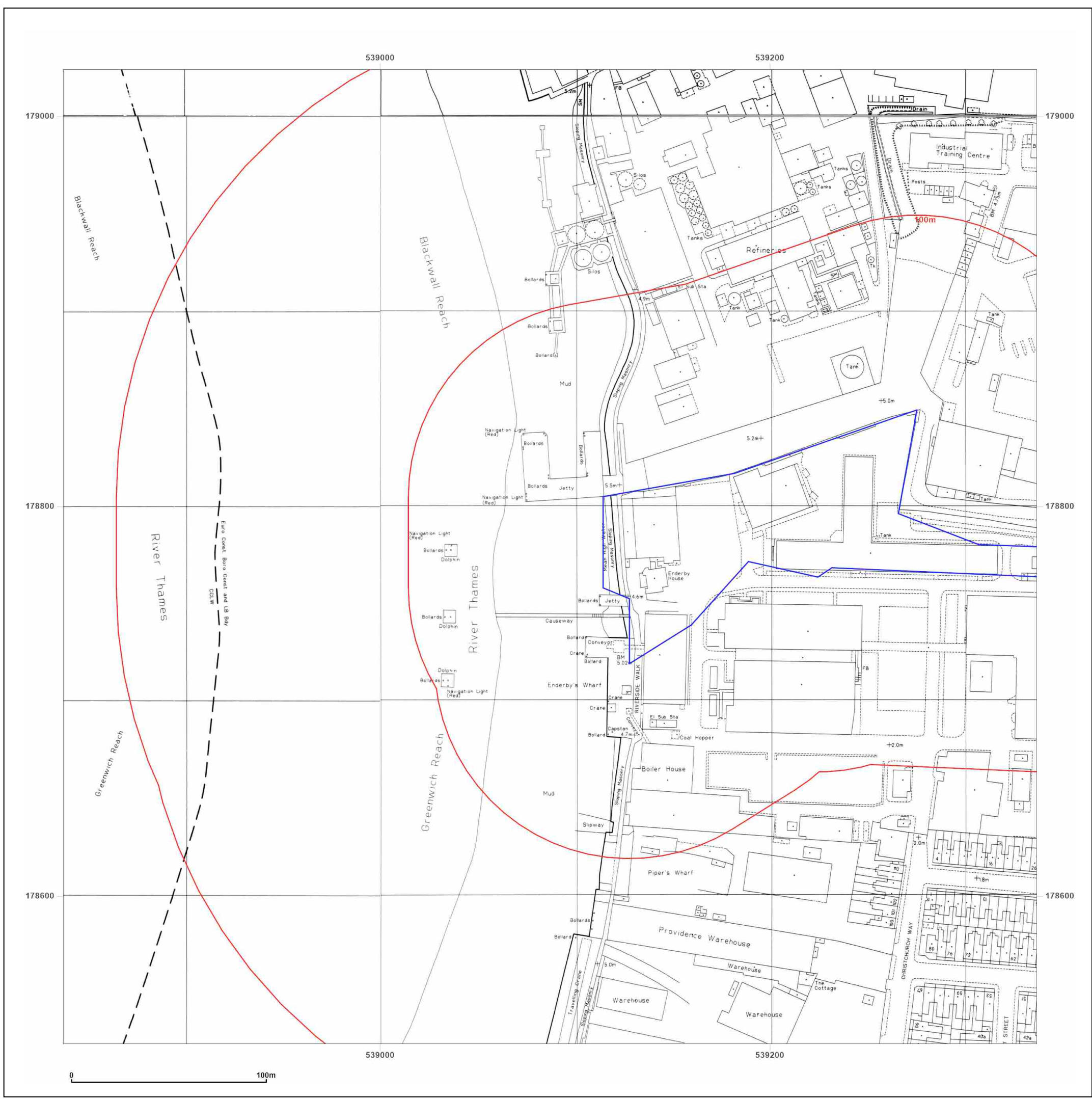


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
Grid Ref: 539087, 178774

Map Name: National Grid

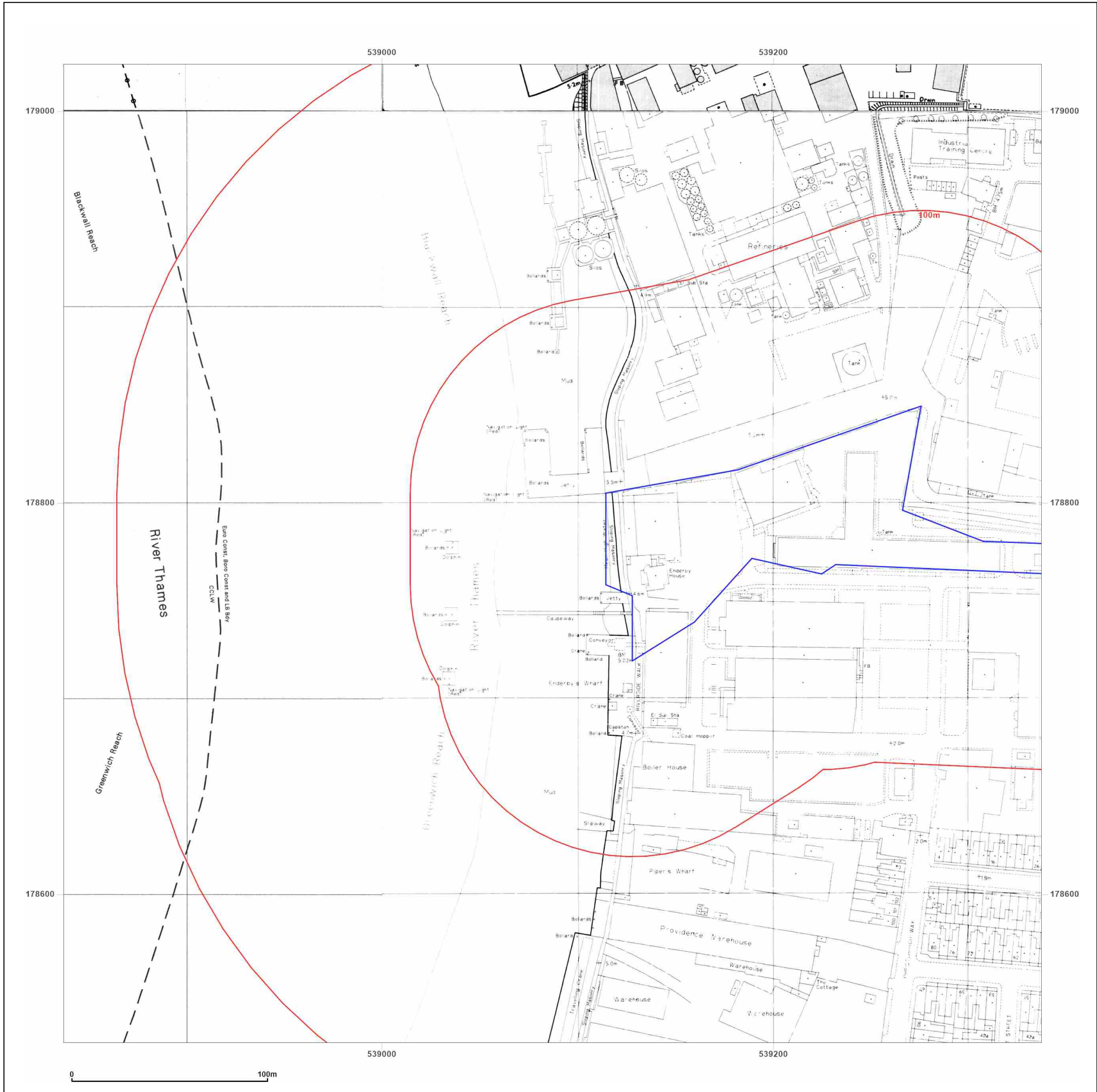
Map date: 1989-1991

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1949 Revised 1988 Edition N/A Copyright 1989 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1991 Levelled N/A



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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_1_1
Grid Ref: 539087, 178774

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



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

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

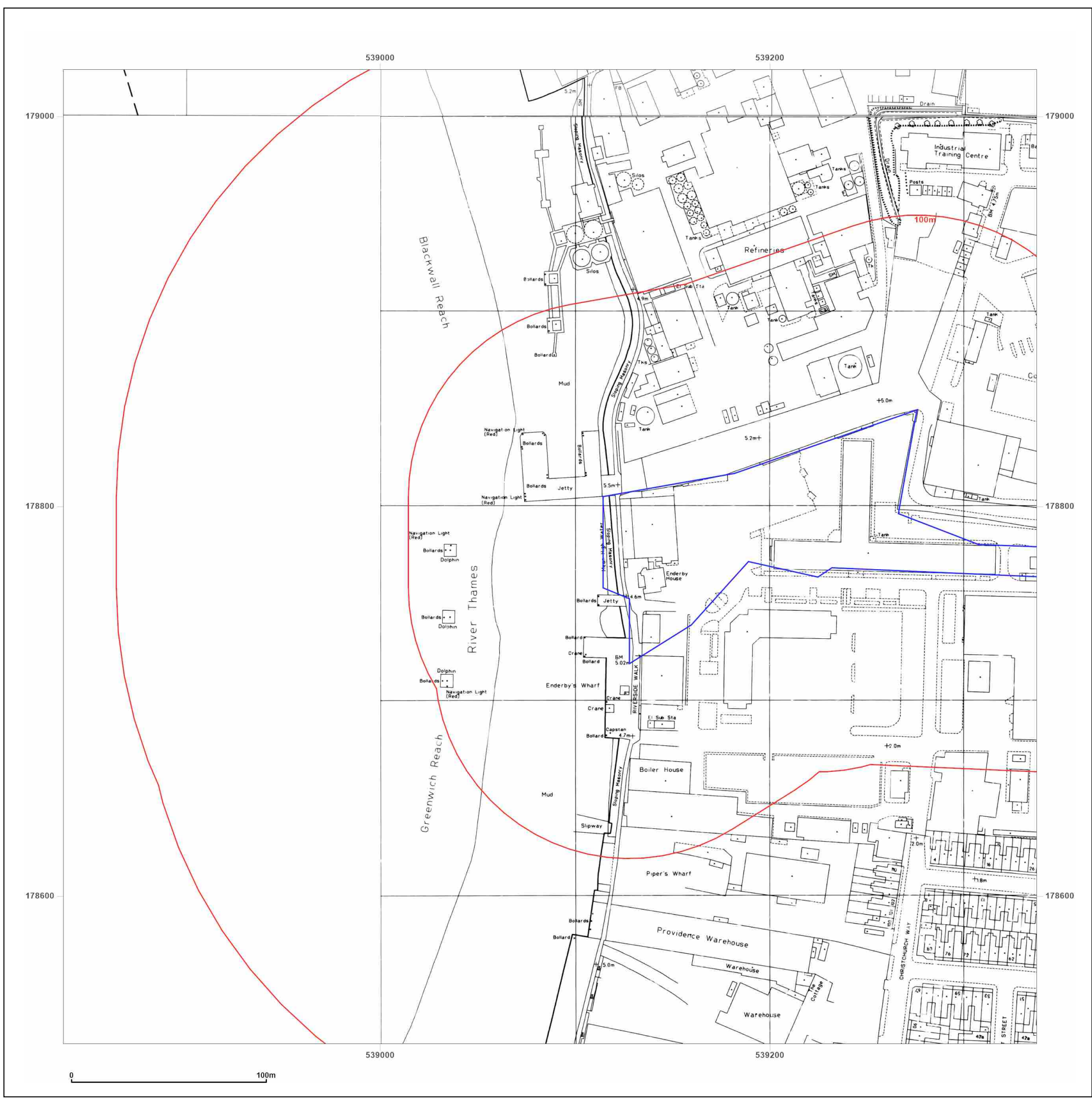


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1951-1952

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1951	Surveyed 1951
Revised 1951	Revised N/A
Edition N/A	Edition 1952
Copyright N/A	Copyright N/A
Levelled 1934	Levelled N/A

Surveyed 1951	Surveyed 1951
Revised 1951	Revised 1951
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled 1934	Levelled 1934

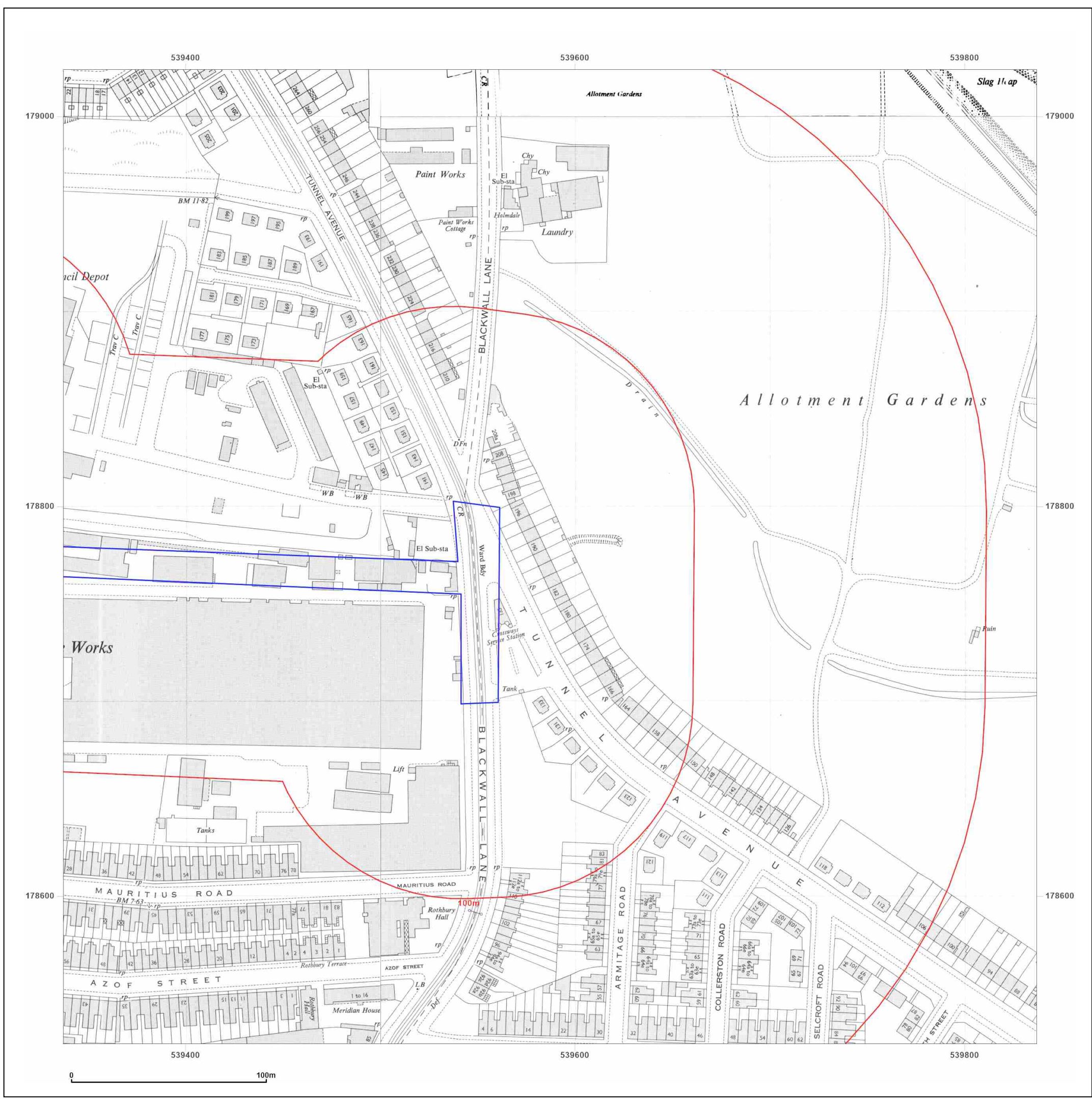


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1951-1952

Scale: 1:1,250

Printed at: 1:2,000



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

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

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled 1934

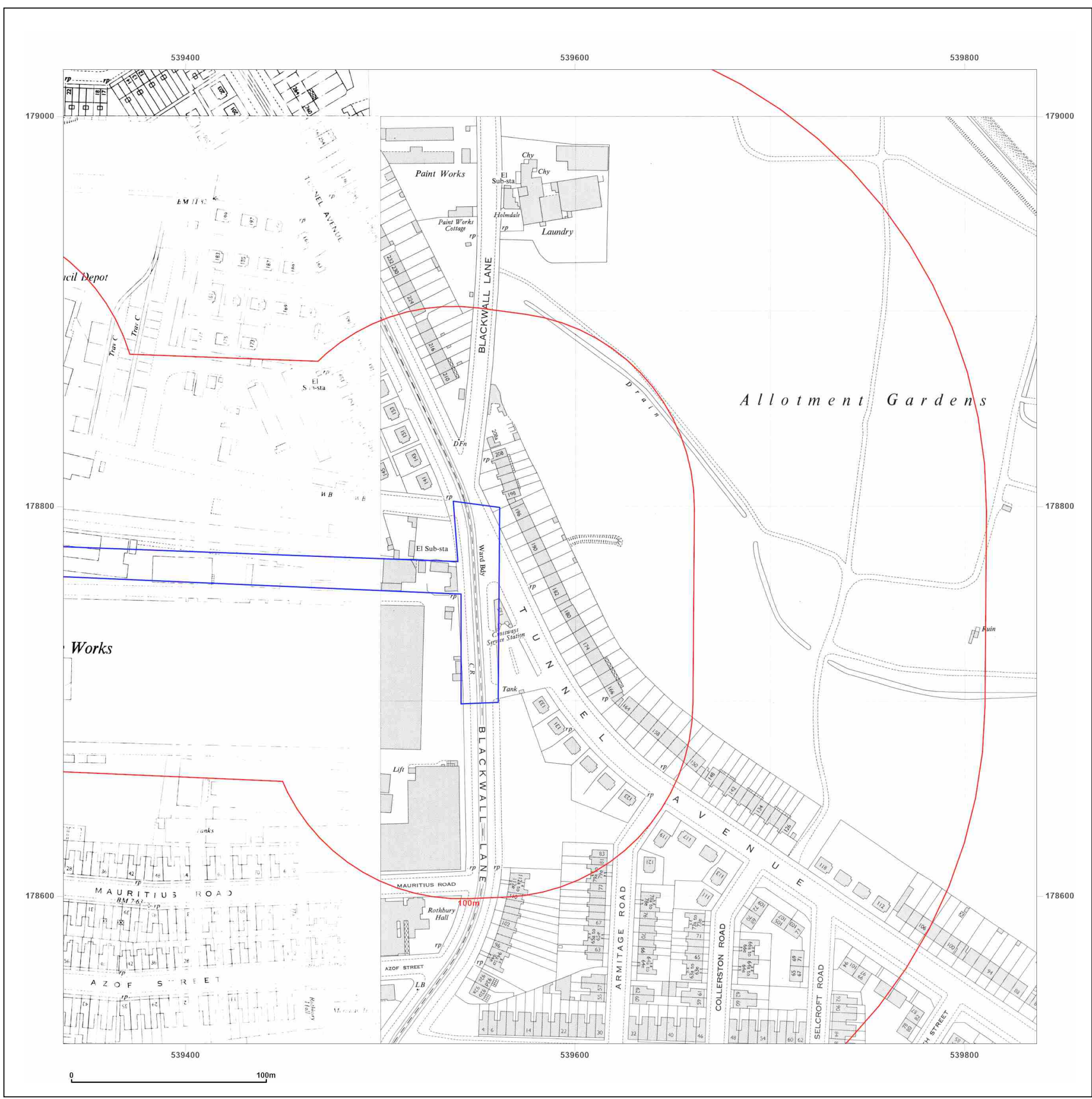


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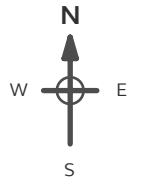
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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid
Map date: 1952
Scale: 1:1,250
Printed at: 1:2,000



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

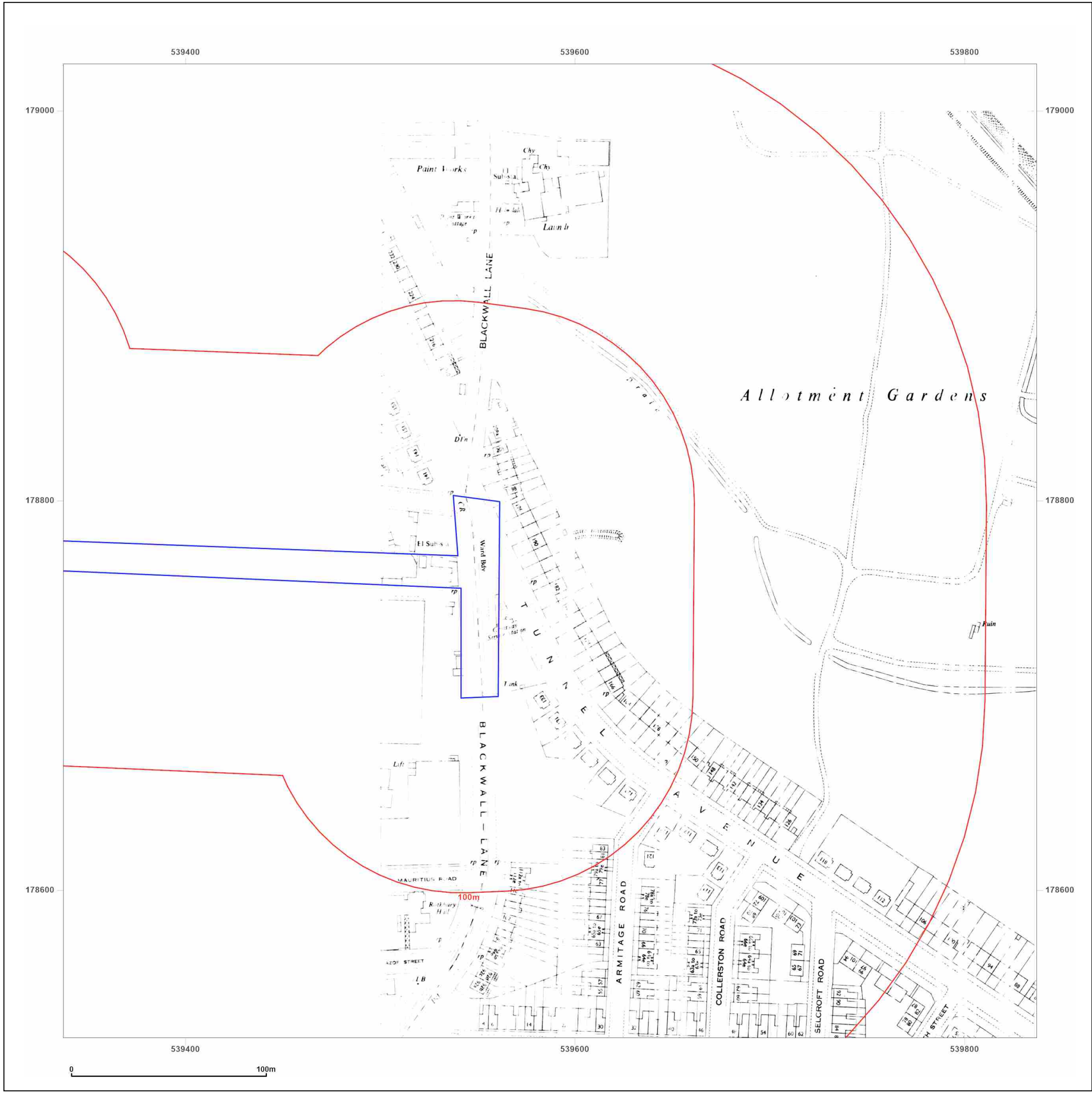
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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1952

Scale: 1:1,250

Printed at: 1:2,000



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

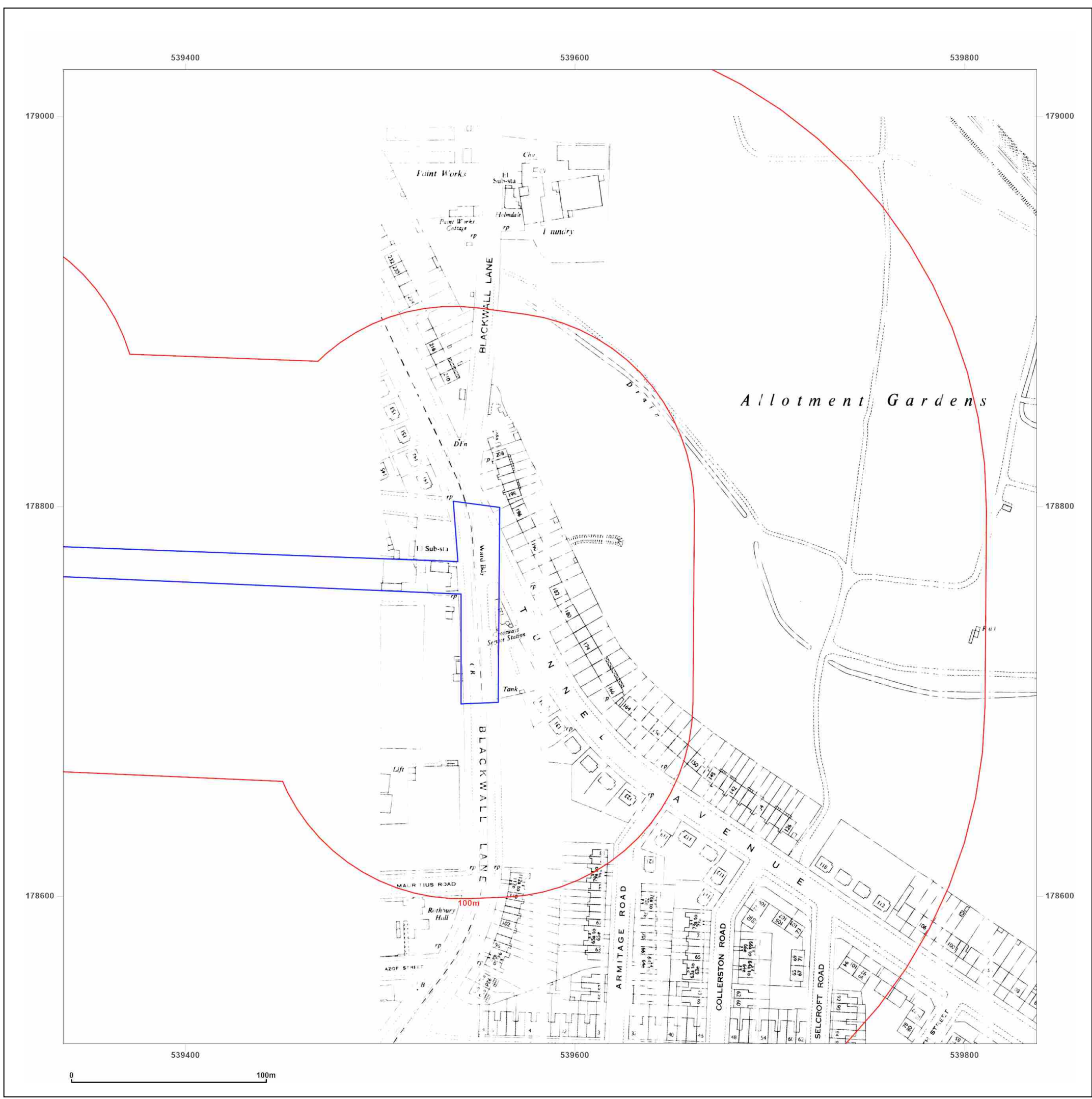


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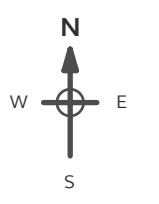


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CHRISTCHURCH WAY,
GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid
Map date: 1965-1968
Scale: 1:1,250
Printed at: 1:2,000



Surveyed 1951 Revised 1964 Edition N/A Copyright 1965 Levelled 1952	Surveyed 1951 Revised 1967 Edition N/A Copyright 1968 Levelled 1952
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Surveyed 1951 Revised 1965 Edition N/A Copyright 1966 Levelled 1953	
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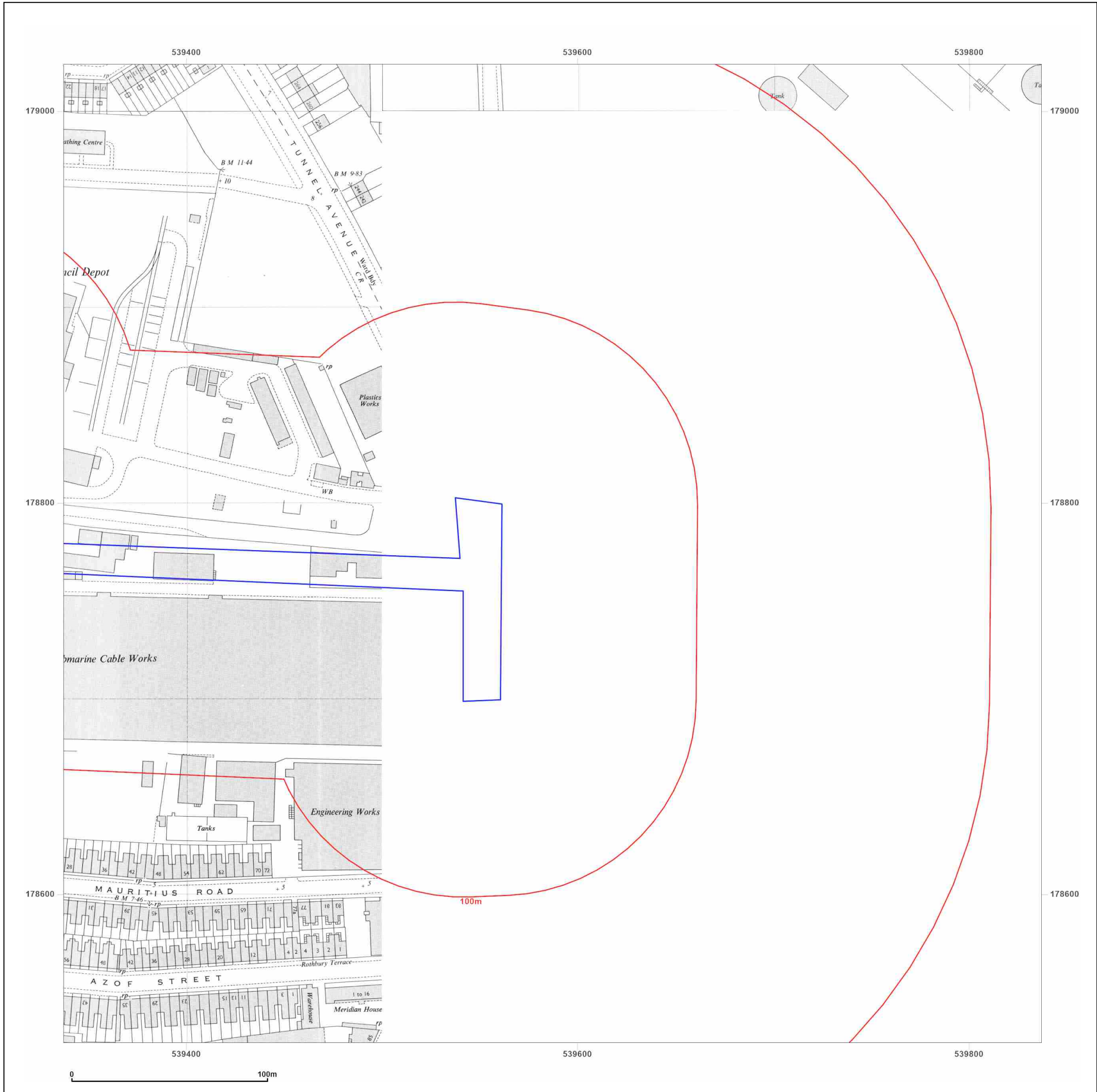


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1968-1971

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1967
Edition N/A
Copyright 1968
Levelled 1952

Surveyed 1951 Revised 1970 Edition N/A Copyright 1971 Levelled 1968

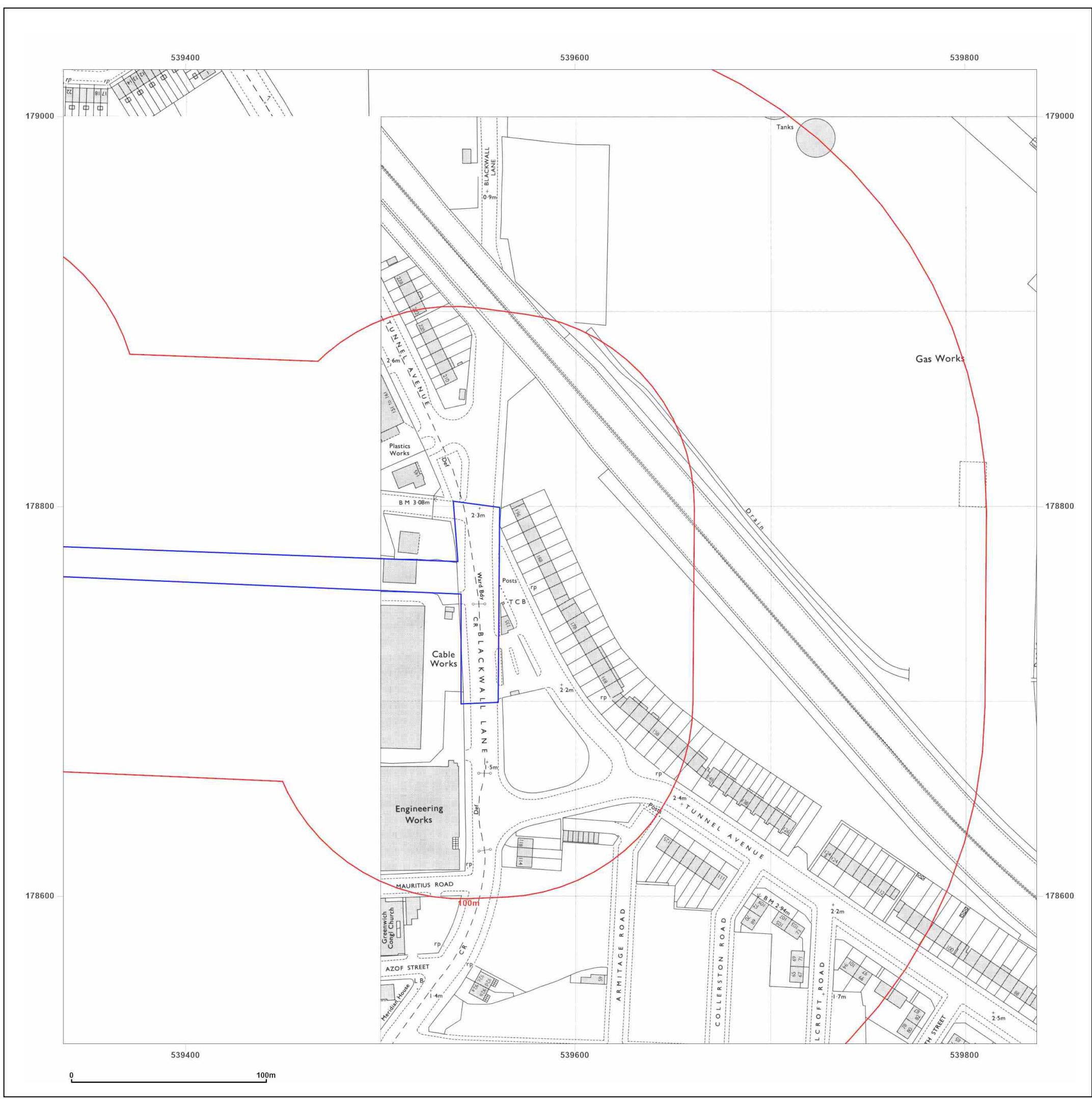


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1973-1974

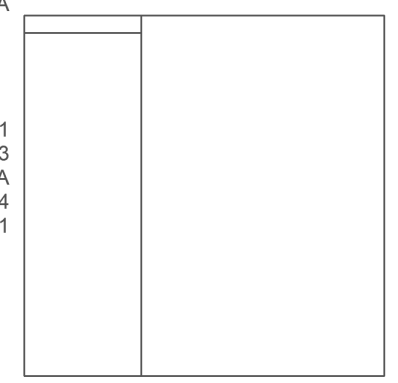
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Printed at: 1:2,000



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

Surveyed 1951
Revised 1973
Edition N/A
Copyright 1974
Levelled 1971

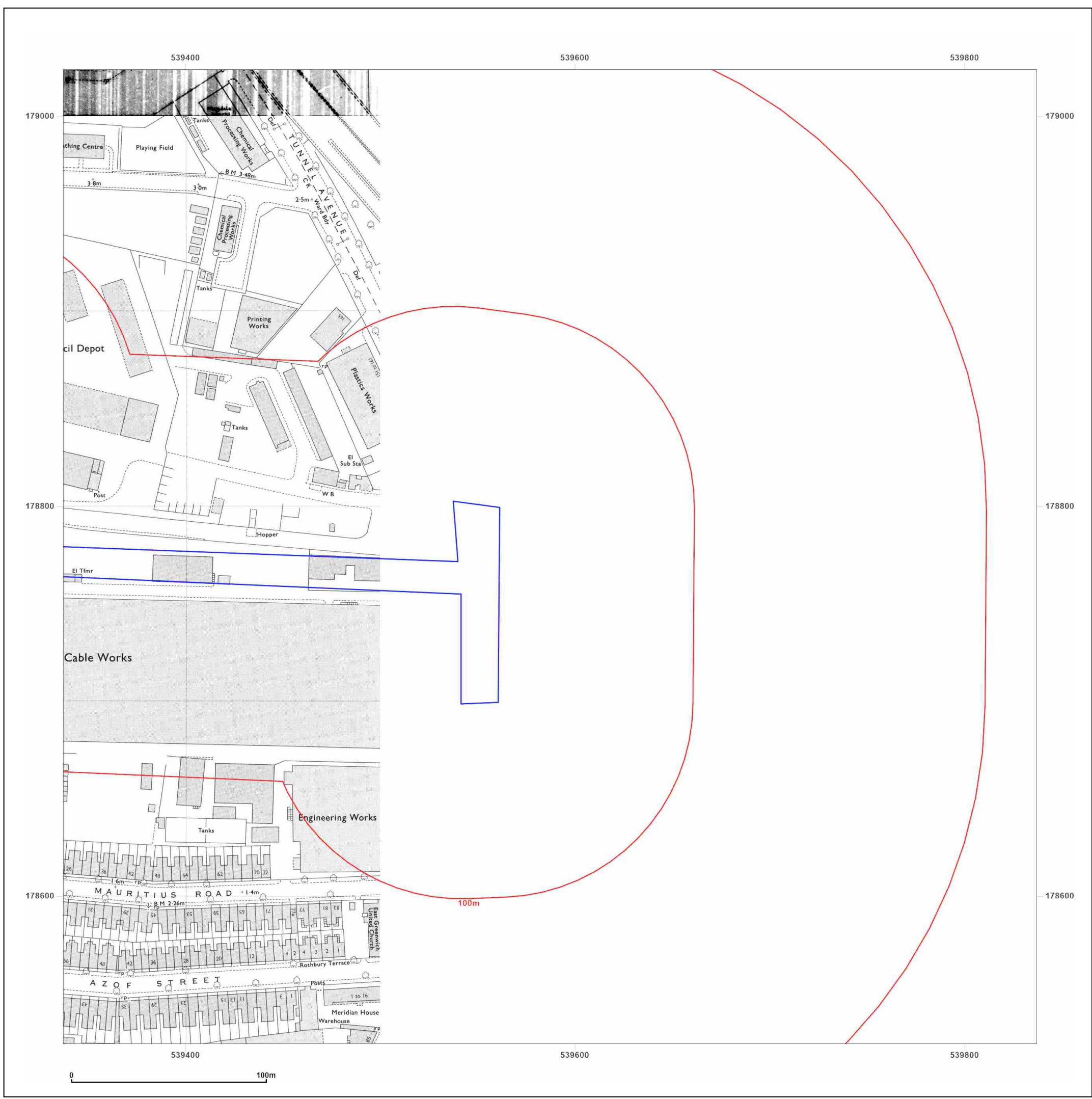


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1974-1979

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1979 Revised 1979 Edition N/A Copyright 1979 Levelled N/A
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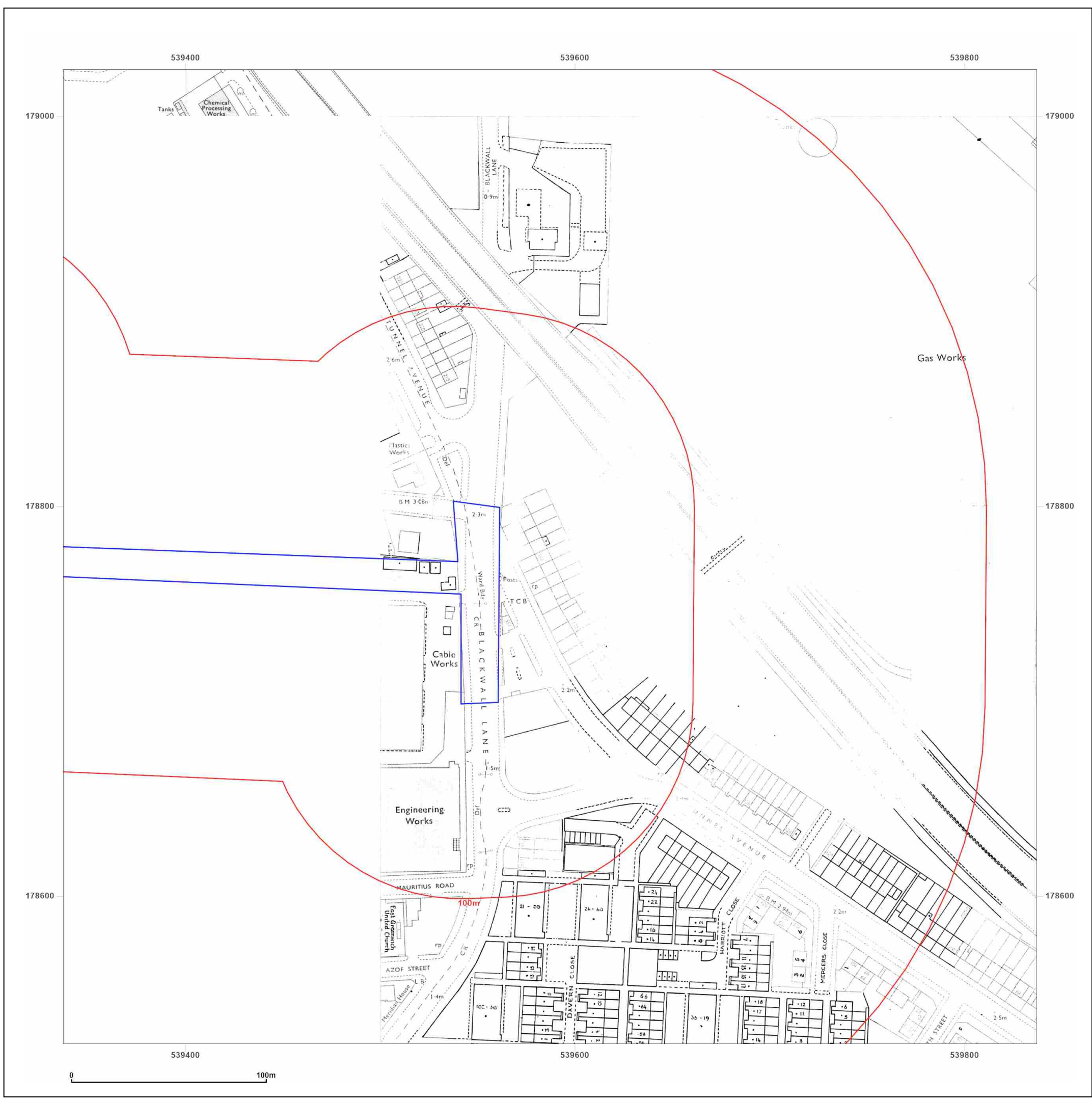


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1980-1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition N/A
Copyright 1982	Copyright 1982
Levelled 1971	Levelled 1971

Surveyed 1980	Surveyed 1971
Revised 1980	Revised 1985
Edition N/A	Edition N/A
Copyright 1980	Copyright 1985
Levelled N/A	Levelled 1971

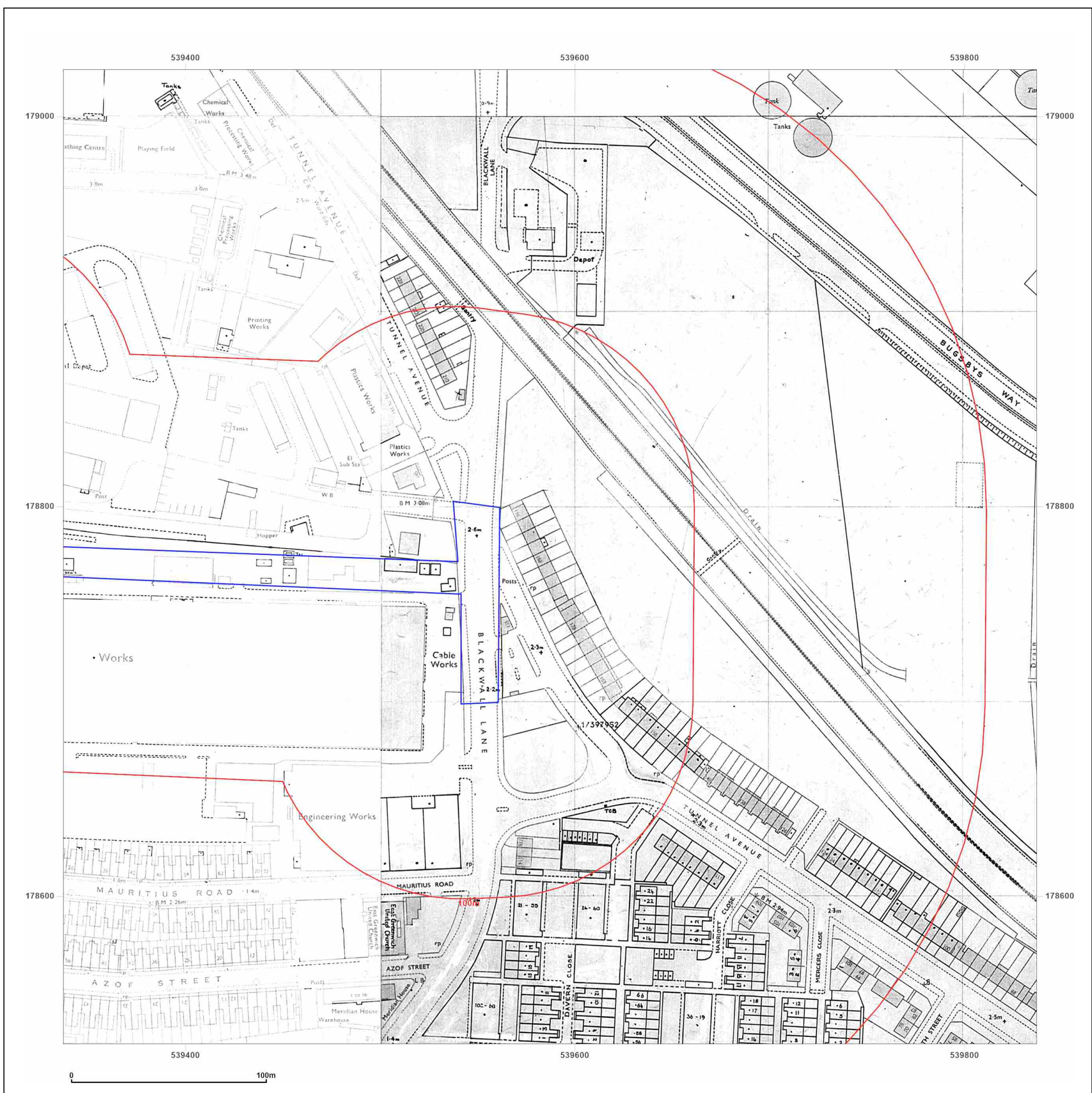


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1990-1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1971	Surveyed N/A
Revised 1990	Revised N/A
Edition N/A	Edition N/A
Copyright 1990	Copyright 1991
Levelled 1971	Levelled N/A

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

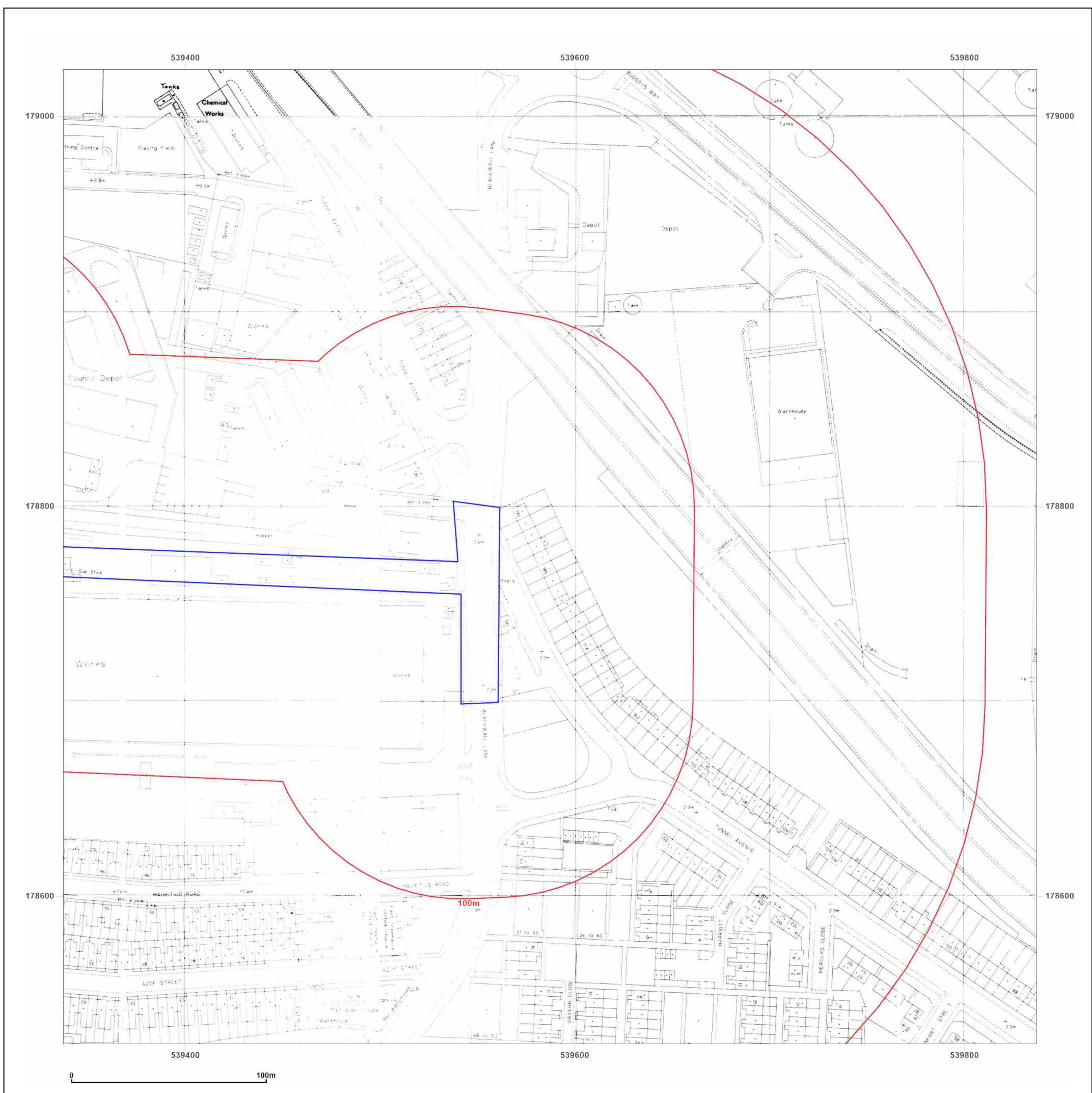


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

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

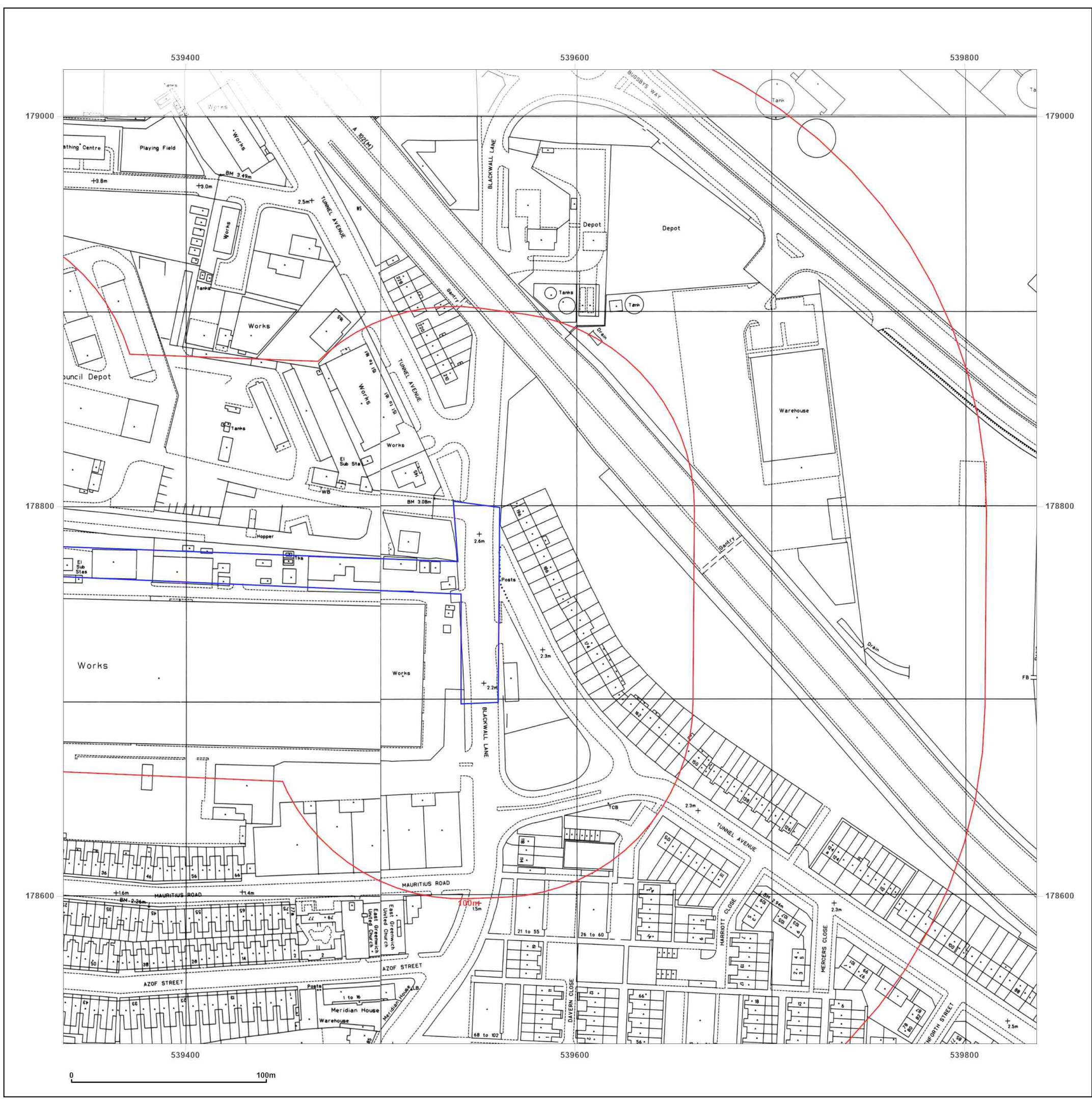


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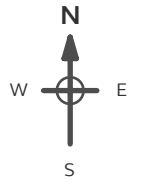
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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid
Map date: 1991
Scale: 1:1,250
Printed at: 1:2,000



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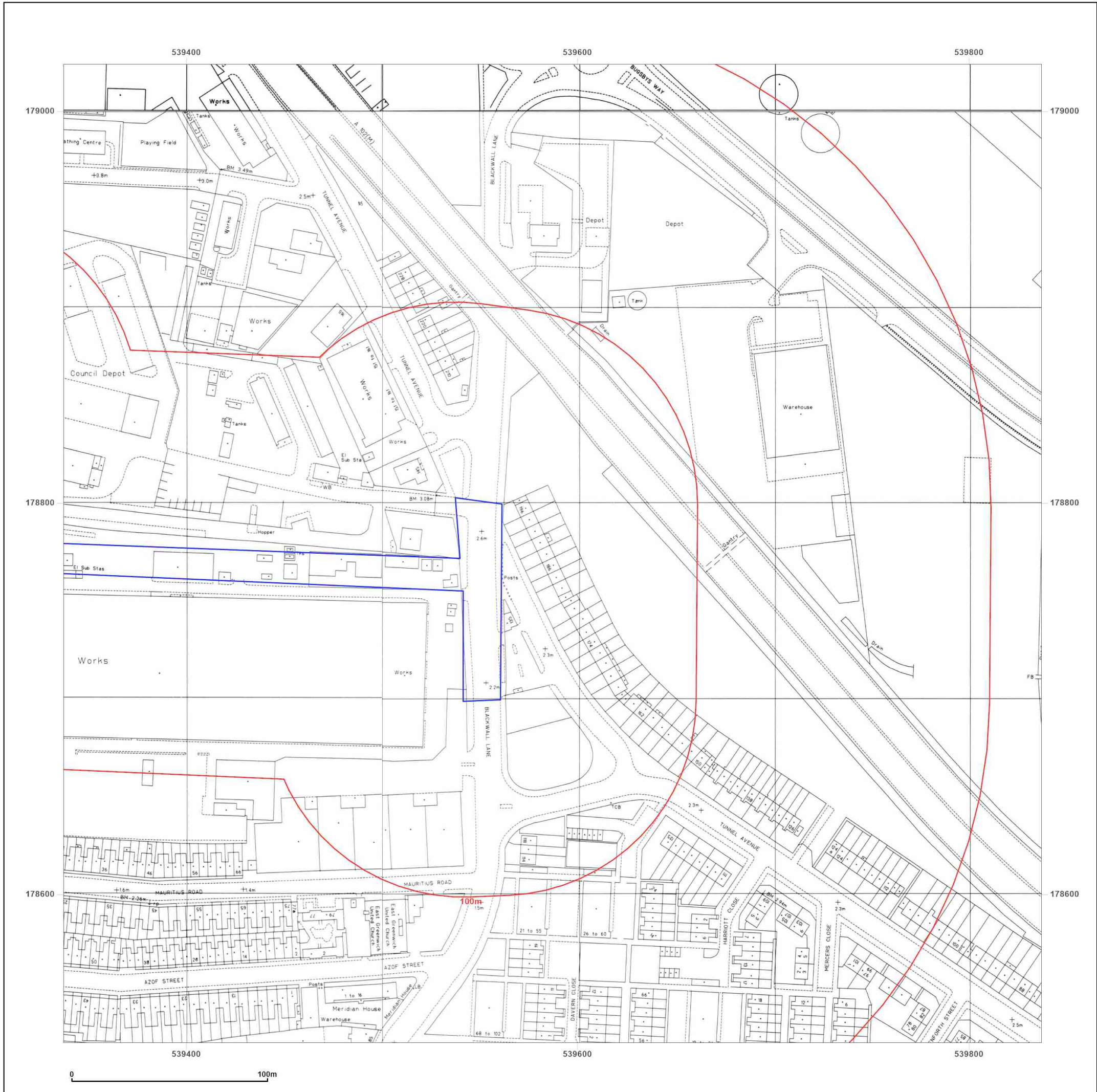


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_1250_2_1
Grid Ref: 539587, 178774

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



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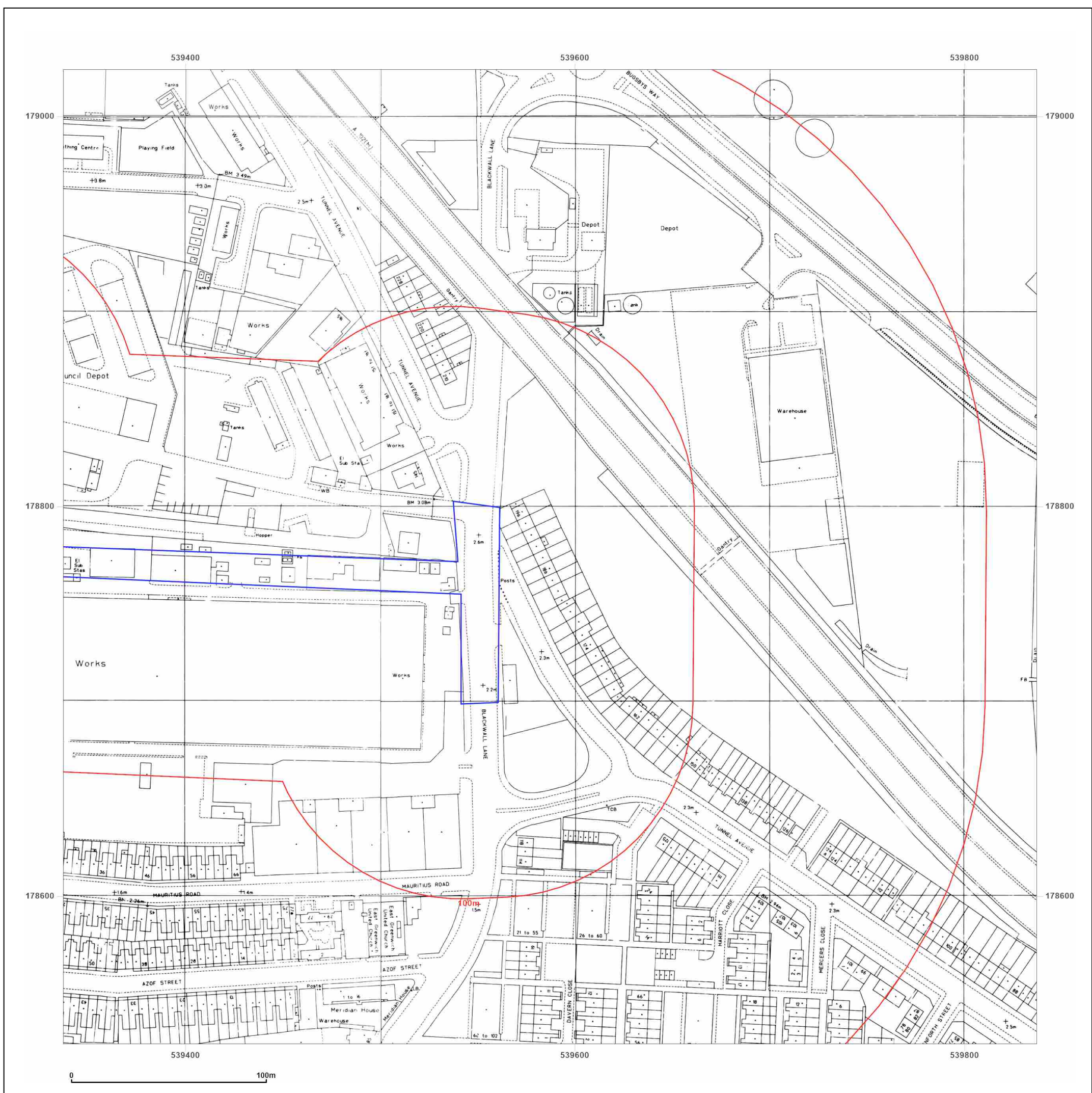


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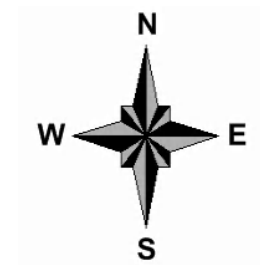
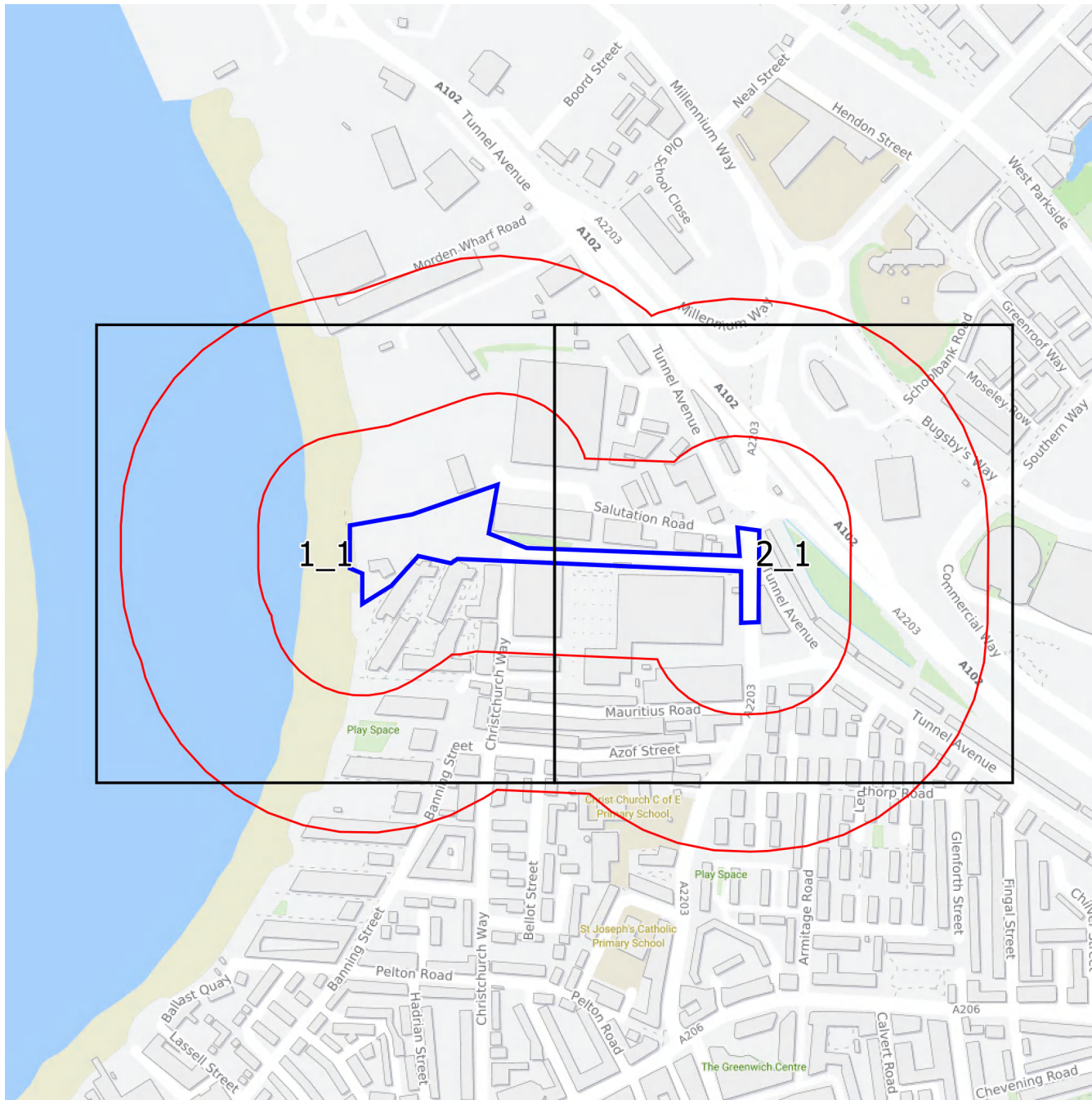


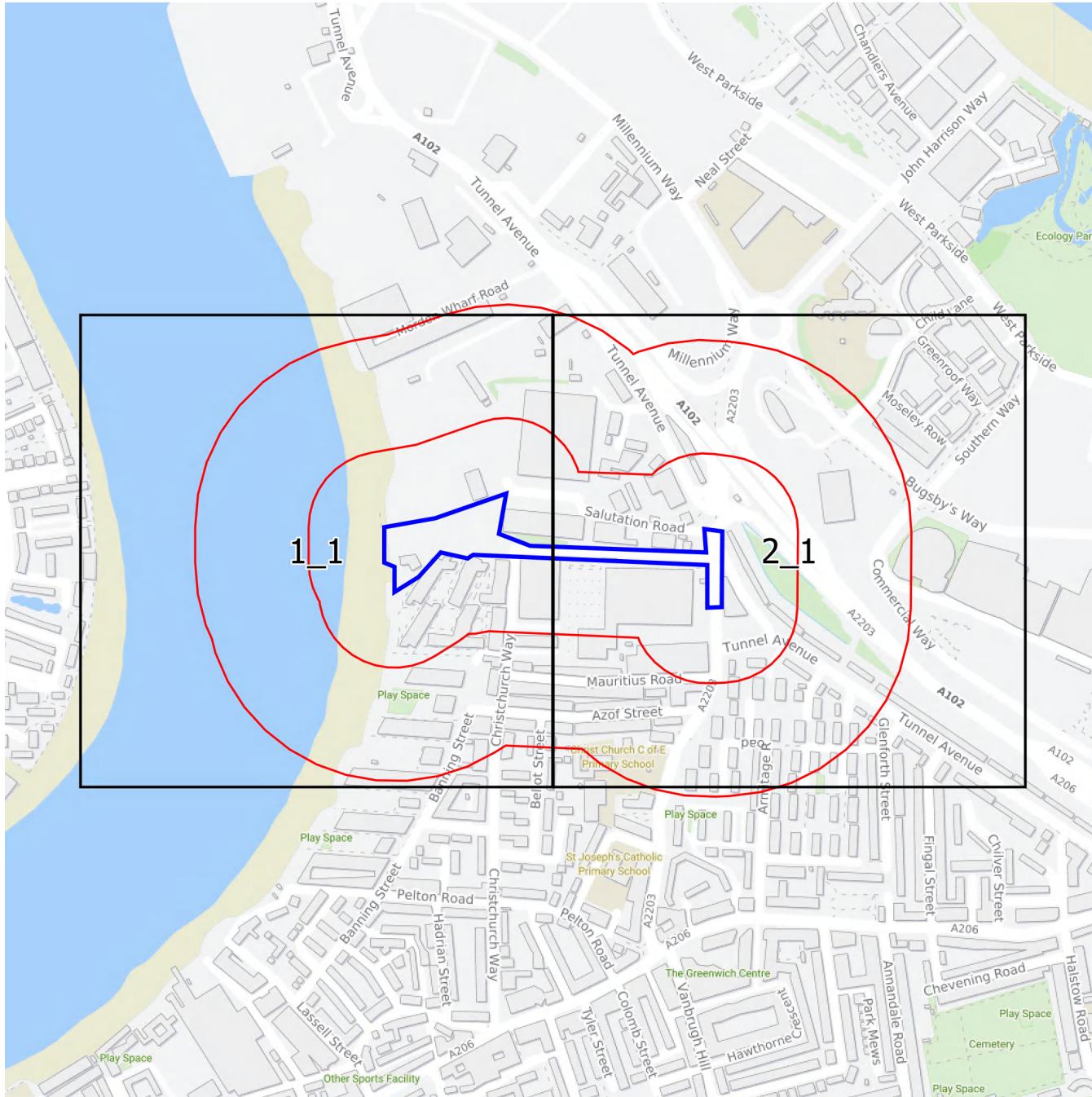


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1:1,250 Scale Grid Index

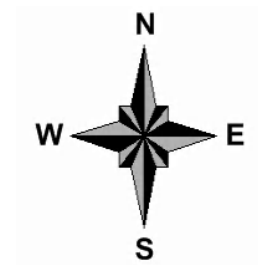




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1:2,500 Scale Grid Index



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GREENWICH, SE10 0AG

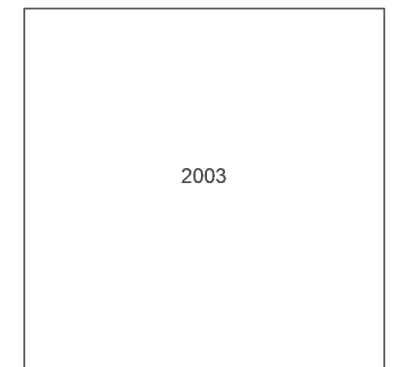
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Report Ref: GS-OQO-WF4-MGU-DLL_Landline_1_1
Grid Ref: 539187, 178774

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

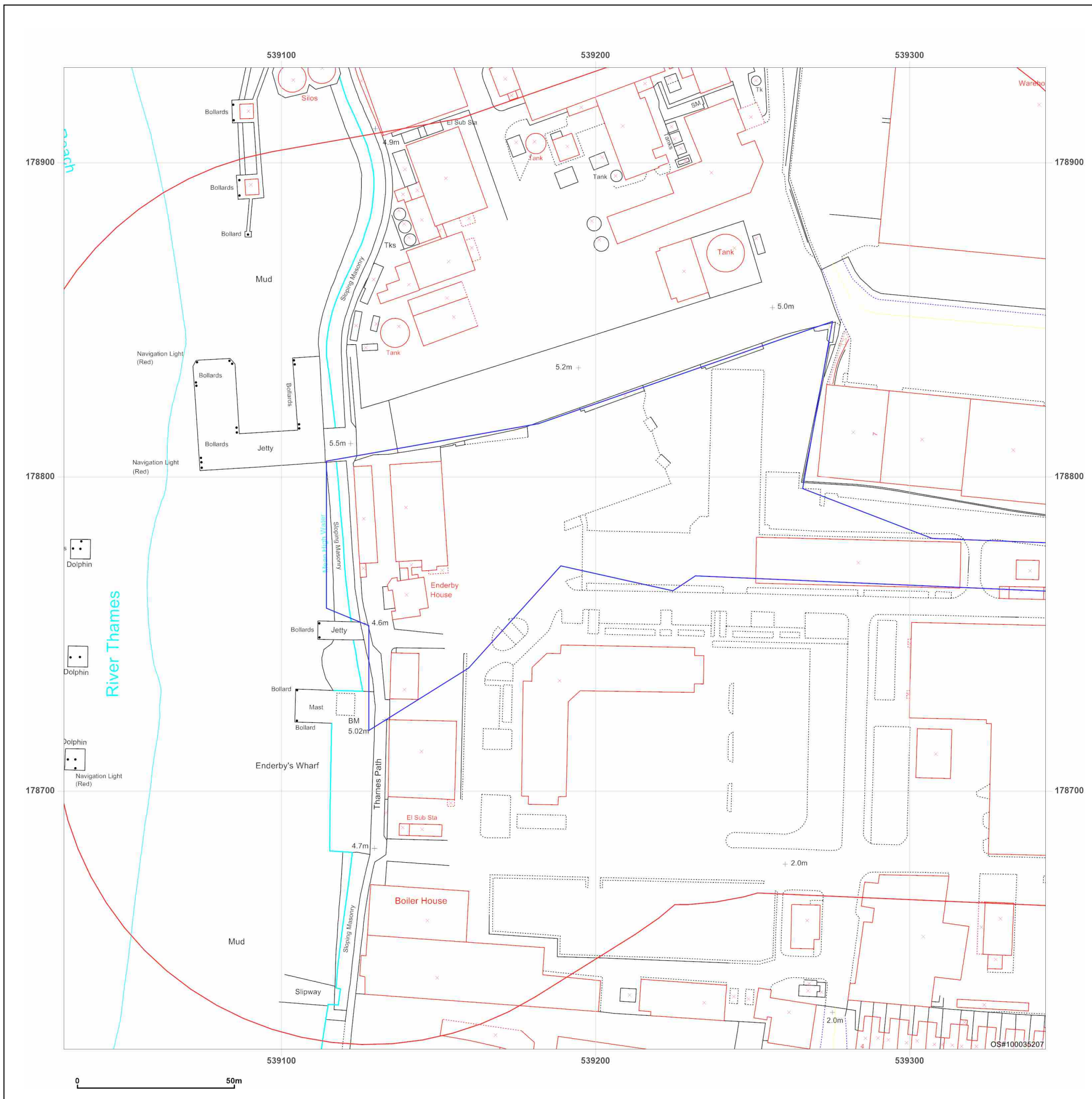


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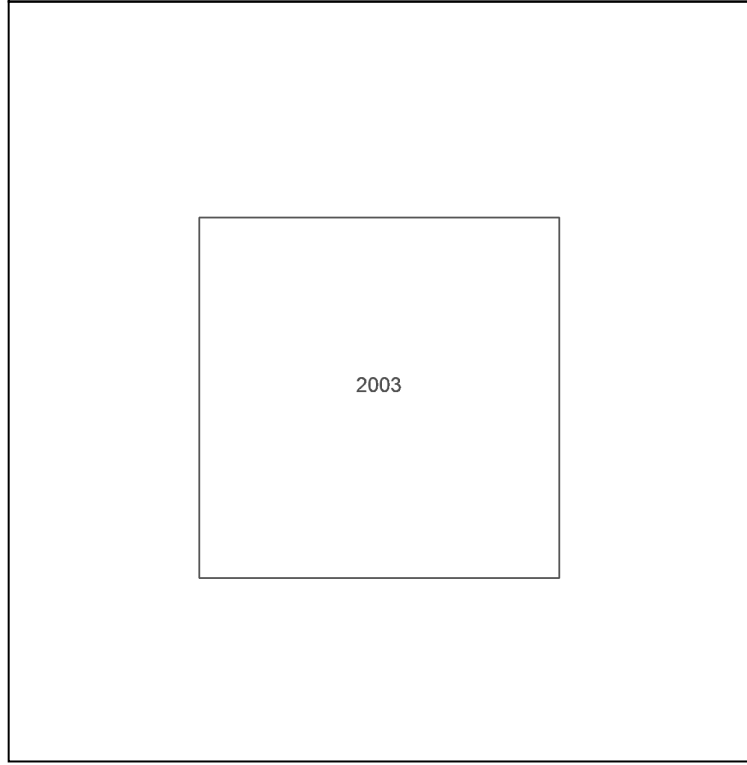
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Map Name: LandLine

Map date: 2003

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Printed at: 1:1,250

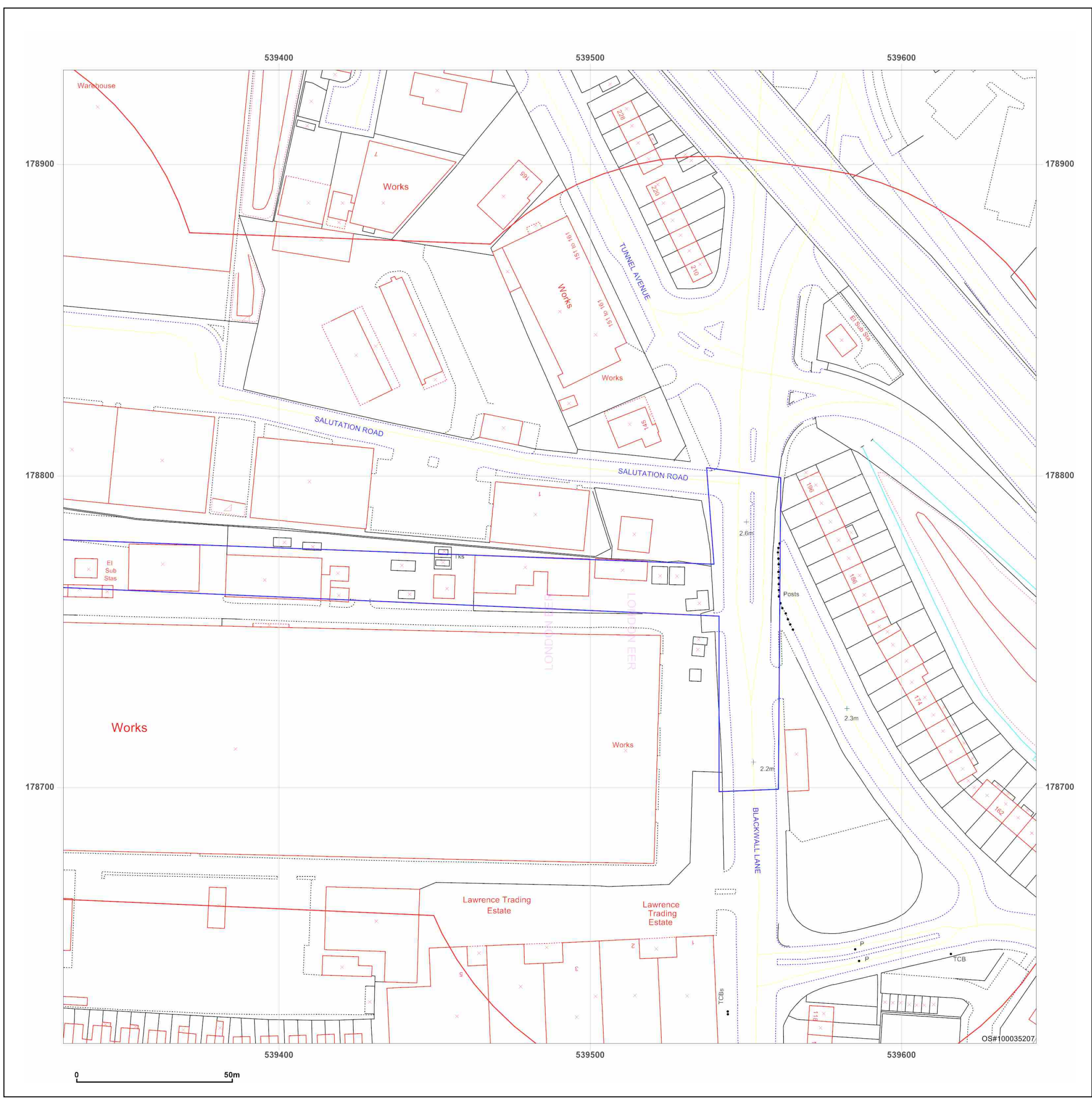


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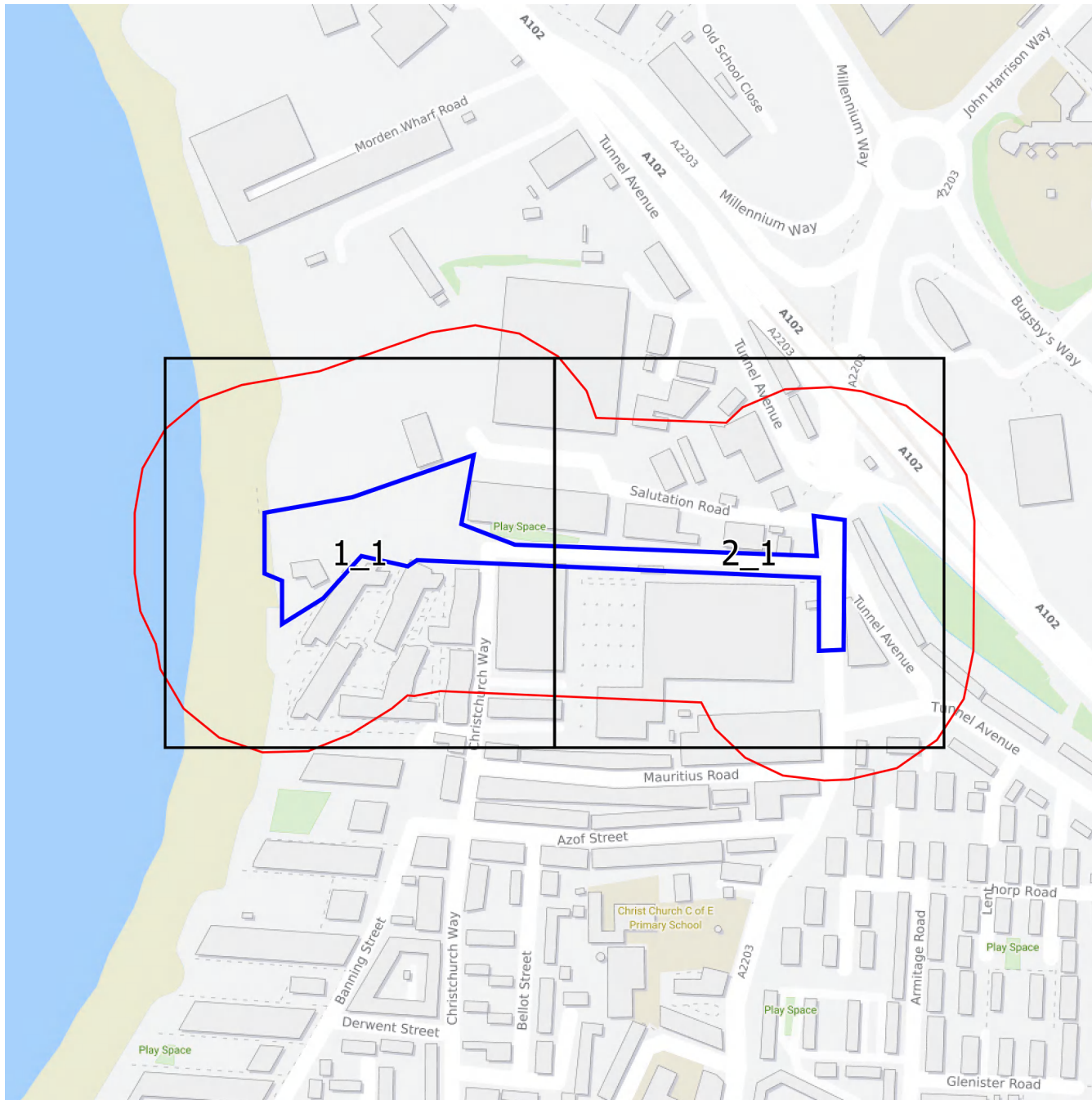
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Landline Scale Grid Index



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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: 1056 Scale Town Plan

Map date: 1867

Scale: 1:1,056

Printed at: 1:1,056



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

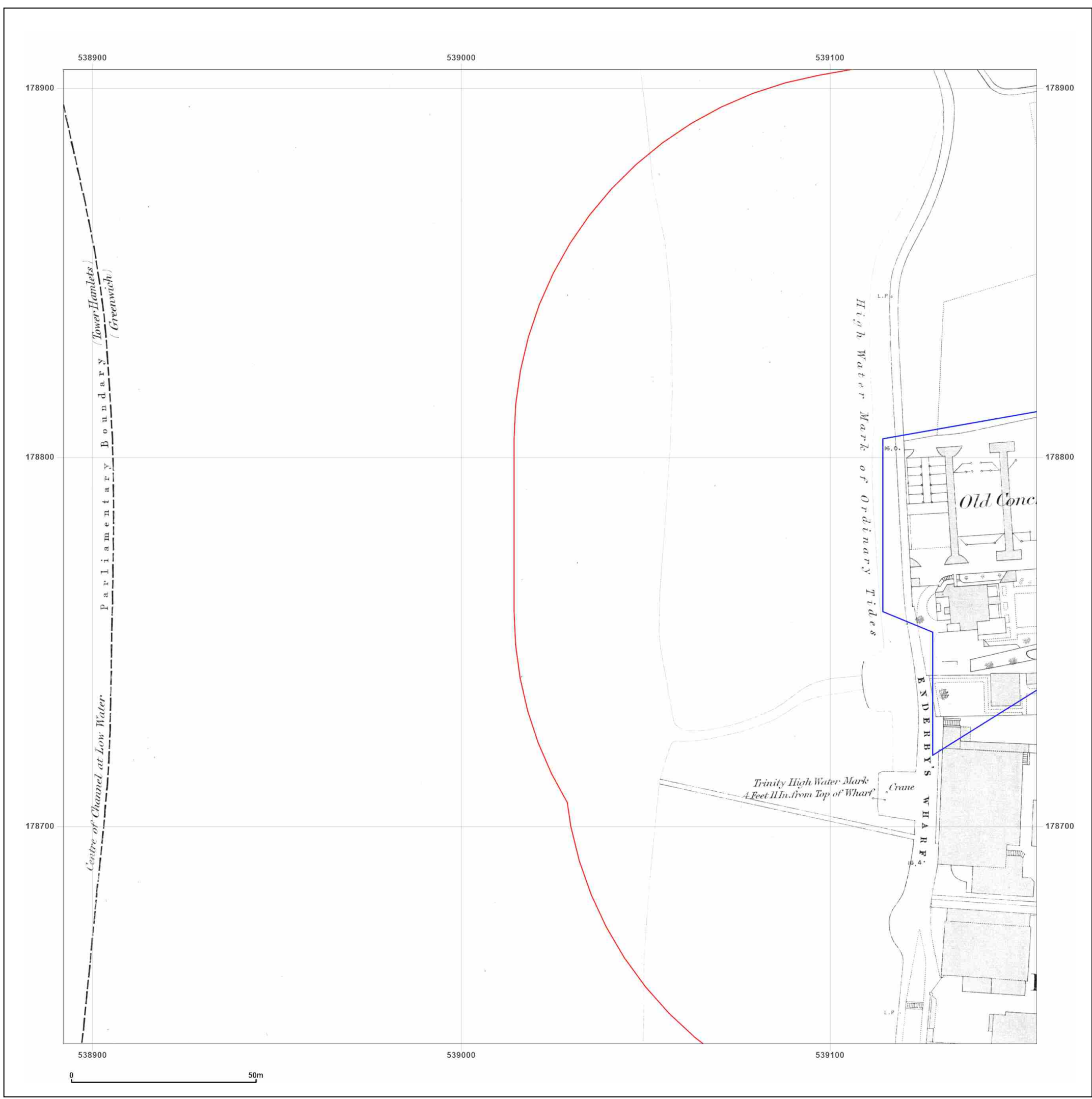


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: 1056 Scale Town Plan
Map date: 1869
Scale: 1:1,056
Printed at: 1:1,056



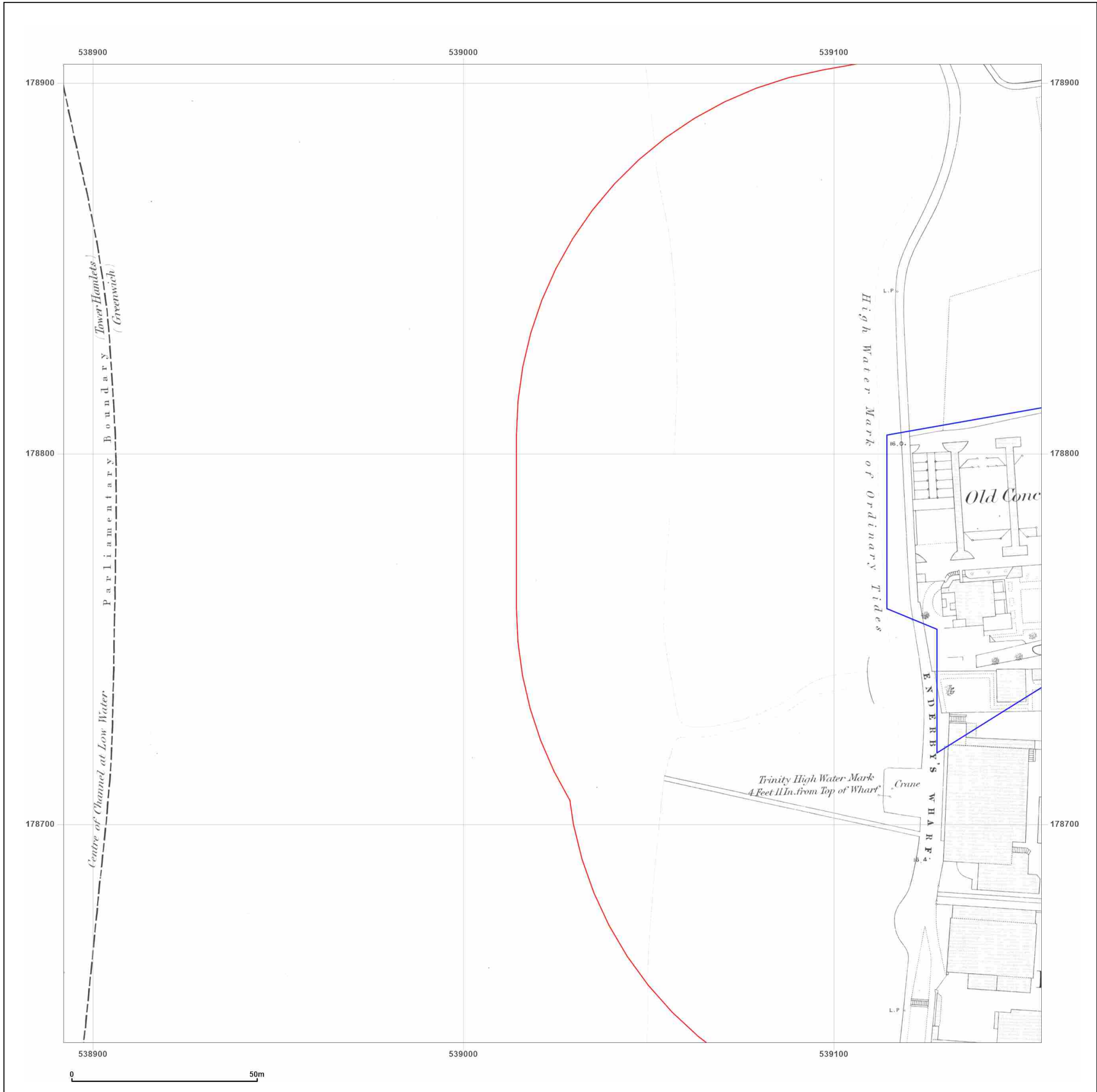
Surveyed 1867
 Revised N/A
 Edition 1869
 Copyright N/A
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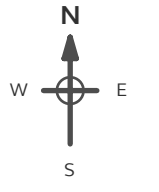
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 GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: 1056 Scale Town Plan
Map date: 1896
Scale: 1:1,056
Printed at: 1:1,056



Surveyed 1895
 Revised N/A
 Edition 1896
 Copyright N/A
 Levelled N/A

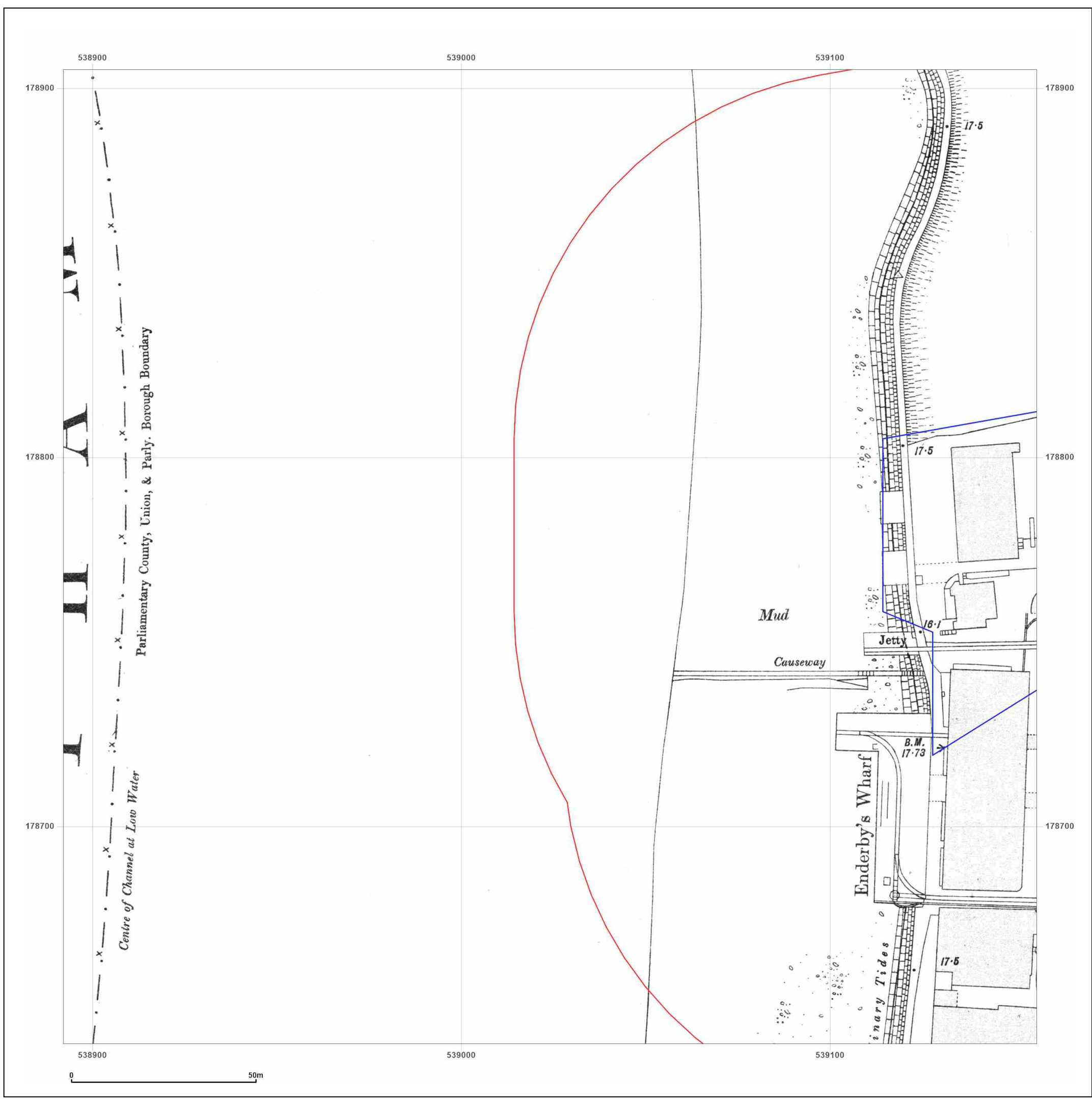
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Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: County Series

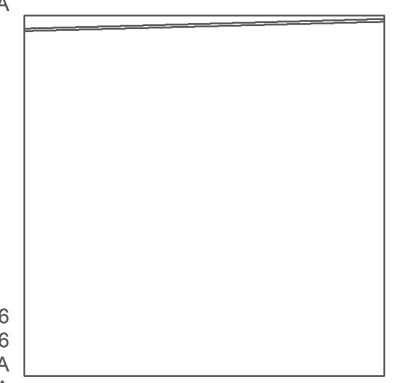
Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

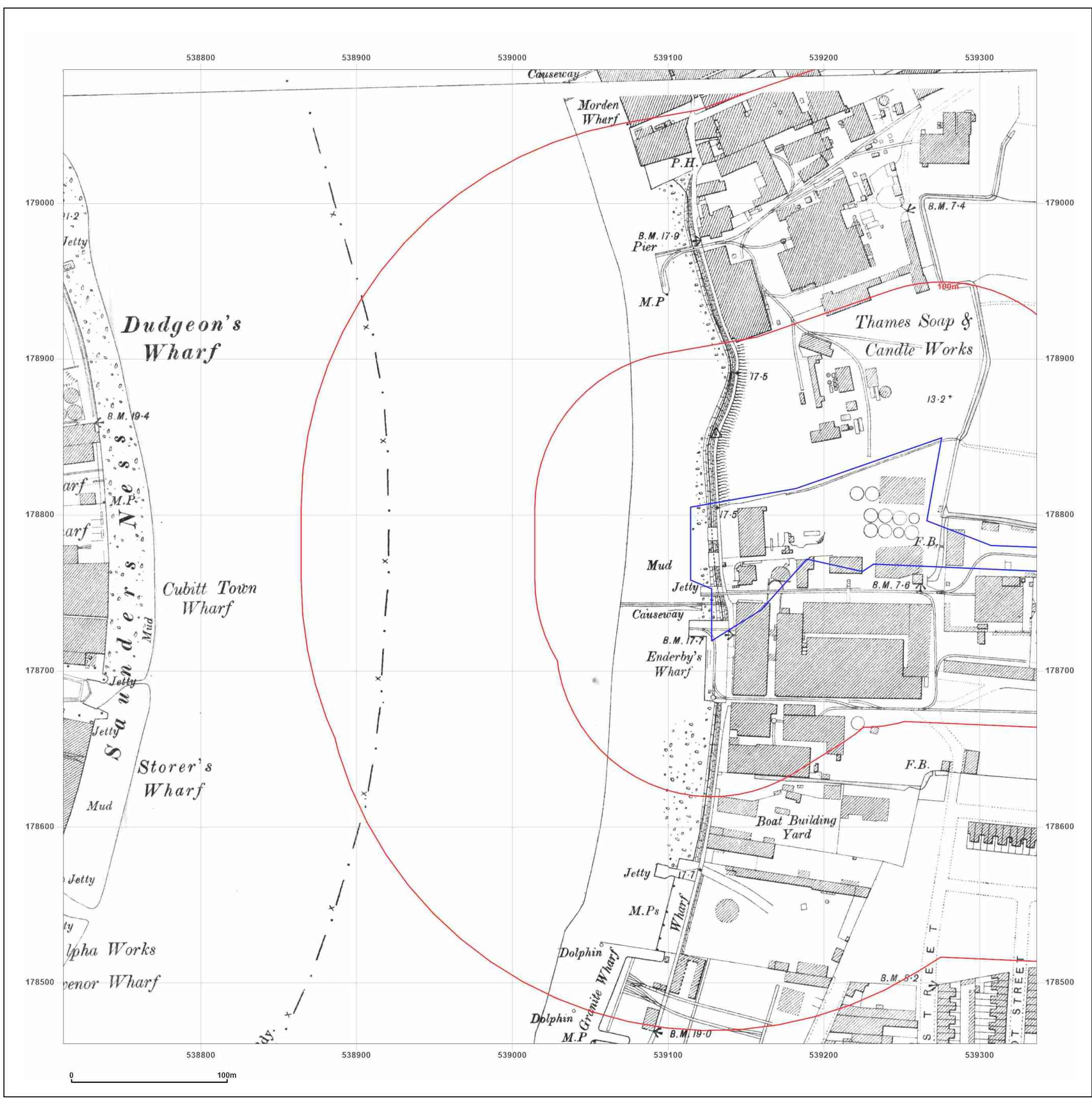


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Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
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Map Name: County Series

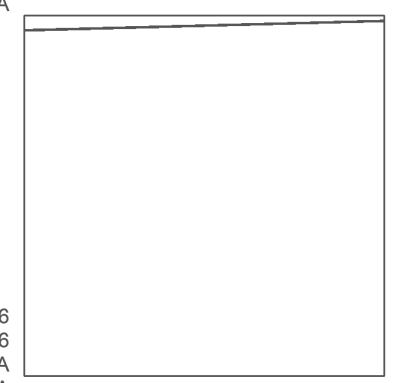
Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



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



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

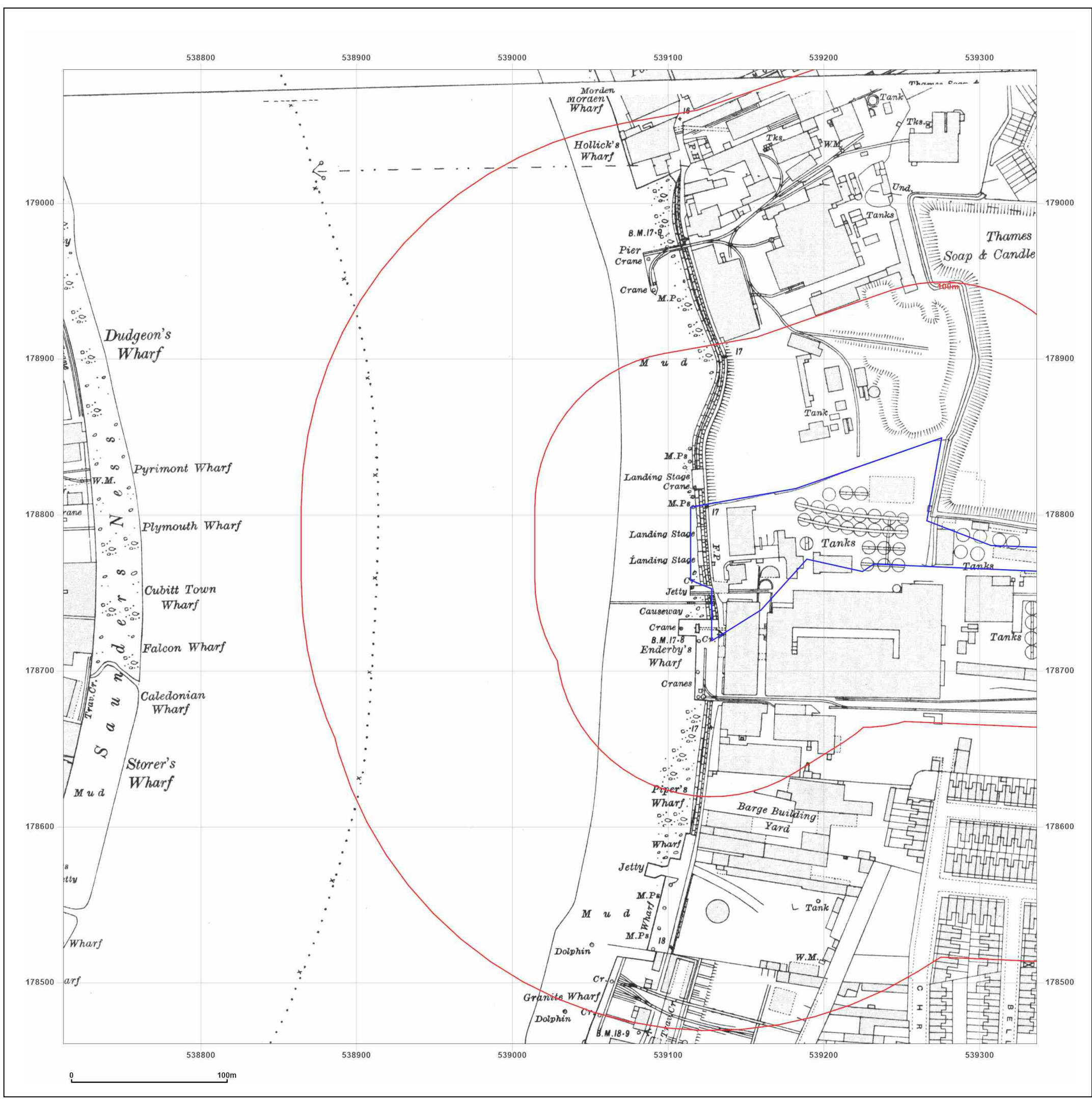


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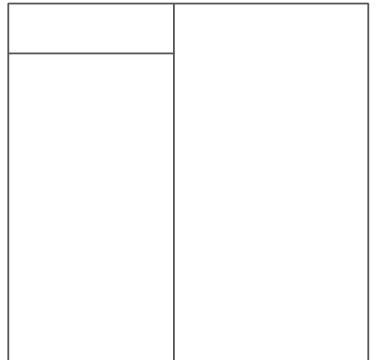
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GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: National Grid
Map date: 1950-1951
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1934



Surveyed 1951
Revised 1951
Edition 1954
Copyright N/A
Levelled 1934

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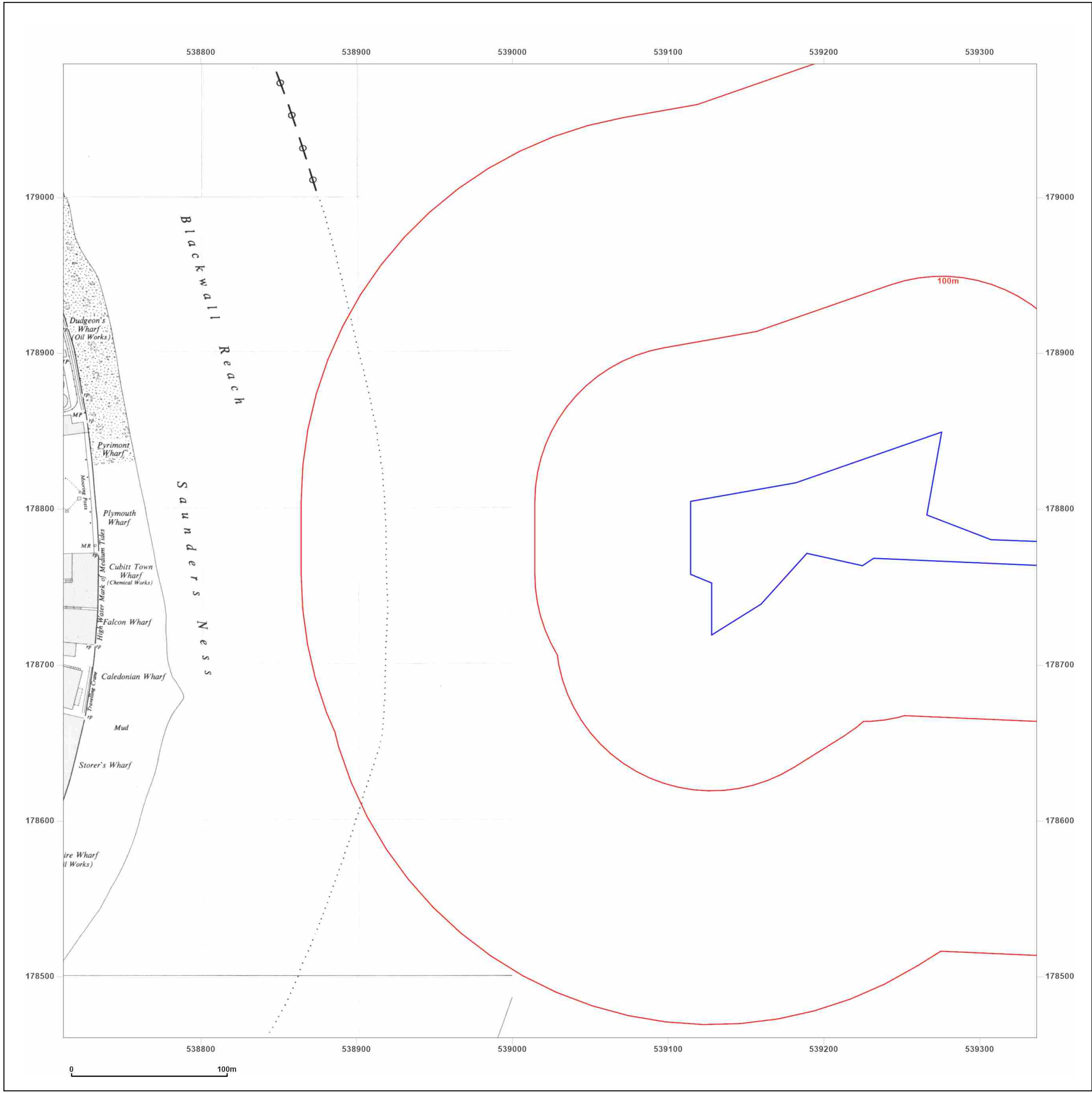


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_1_1
Grid Ref: 539024, 178773

Map Name: National Grid

Map date: 1949-1953

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1934

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

Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled 1934

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

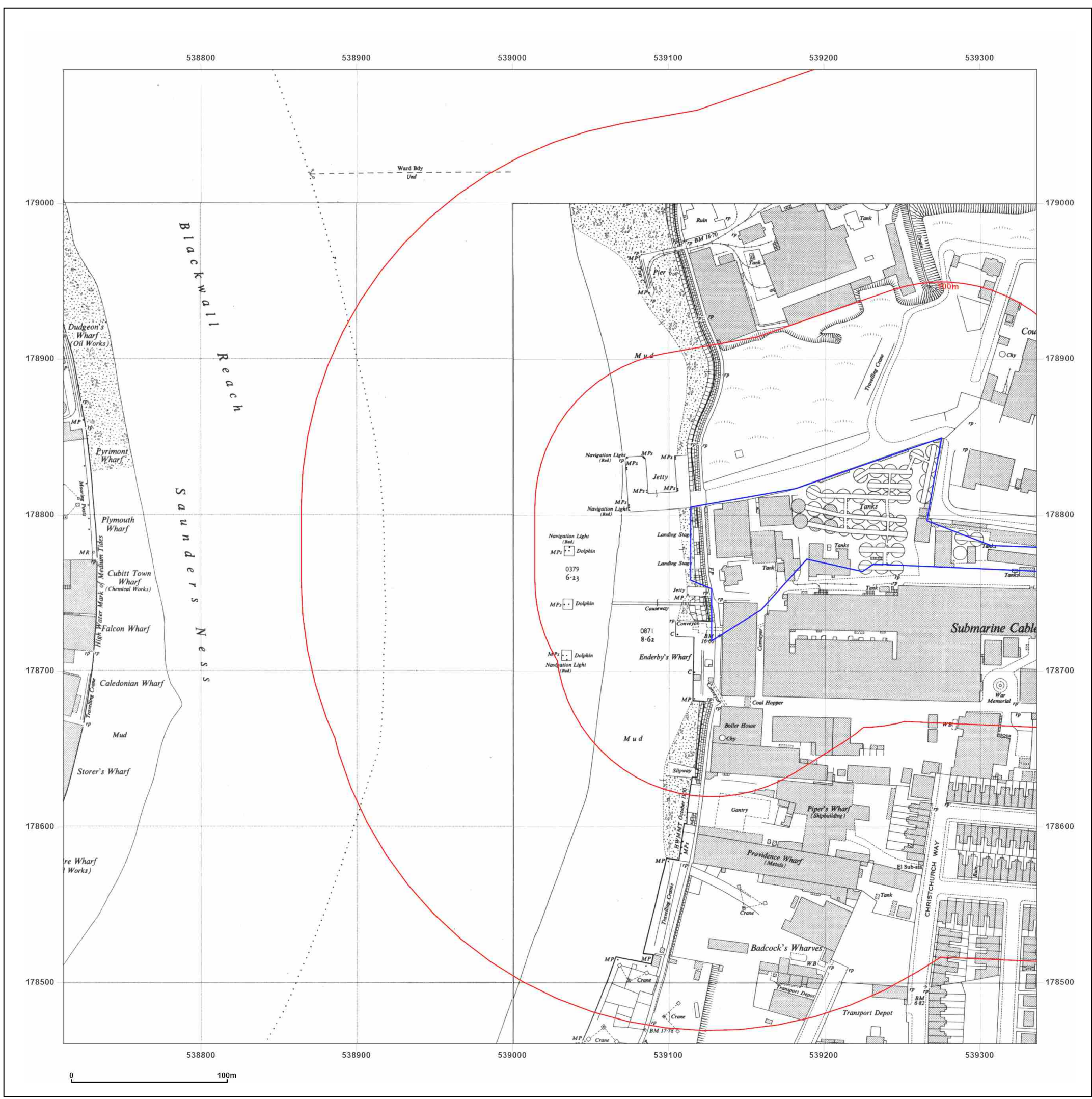


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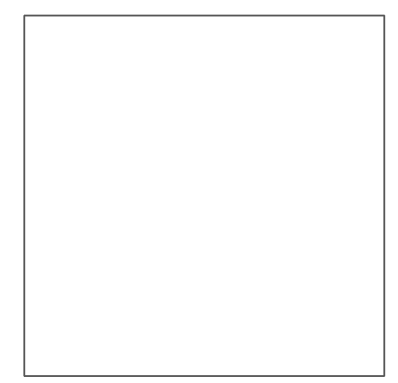
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Report Ref: GS-OQO-WF4-MGU-DLL_LS_2_1
Grid Ref: 539649, 178773

Map Name: 1056 Scale Town Plan

Map date: 1896

Scale: 1:1,056

Printed at: 1:1,056



Surveyed 1895
Revised N/A
Edition 1896
Copyright N/A
Levelled N/A

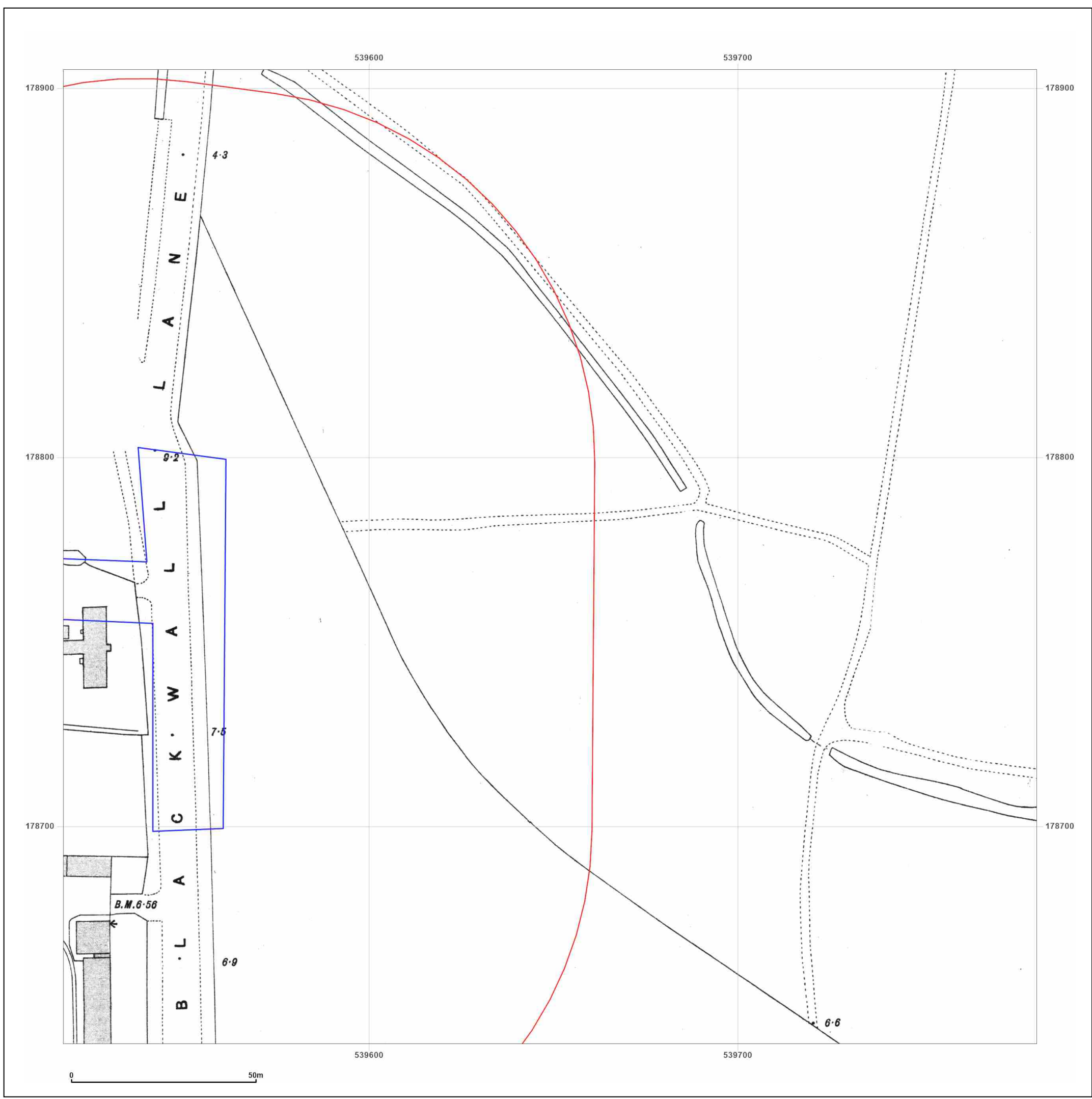


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Report Ref: GS-OQO-WF4-MGU-DLL_LS_2_1
Grid Ref: 539649, 178773

Map Name: County Series

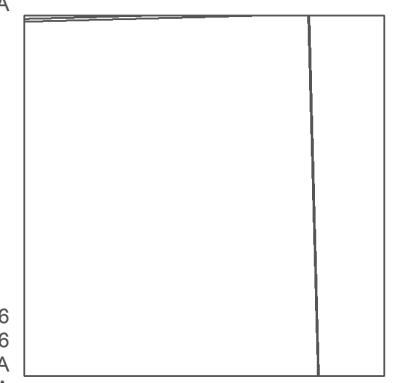
Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1896
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Copyright N/A
Levelled N/A

Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

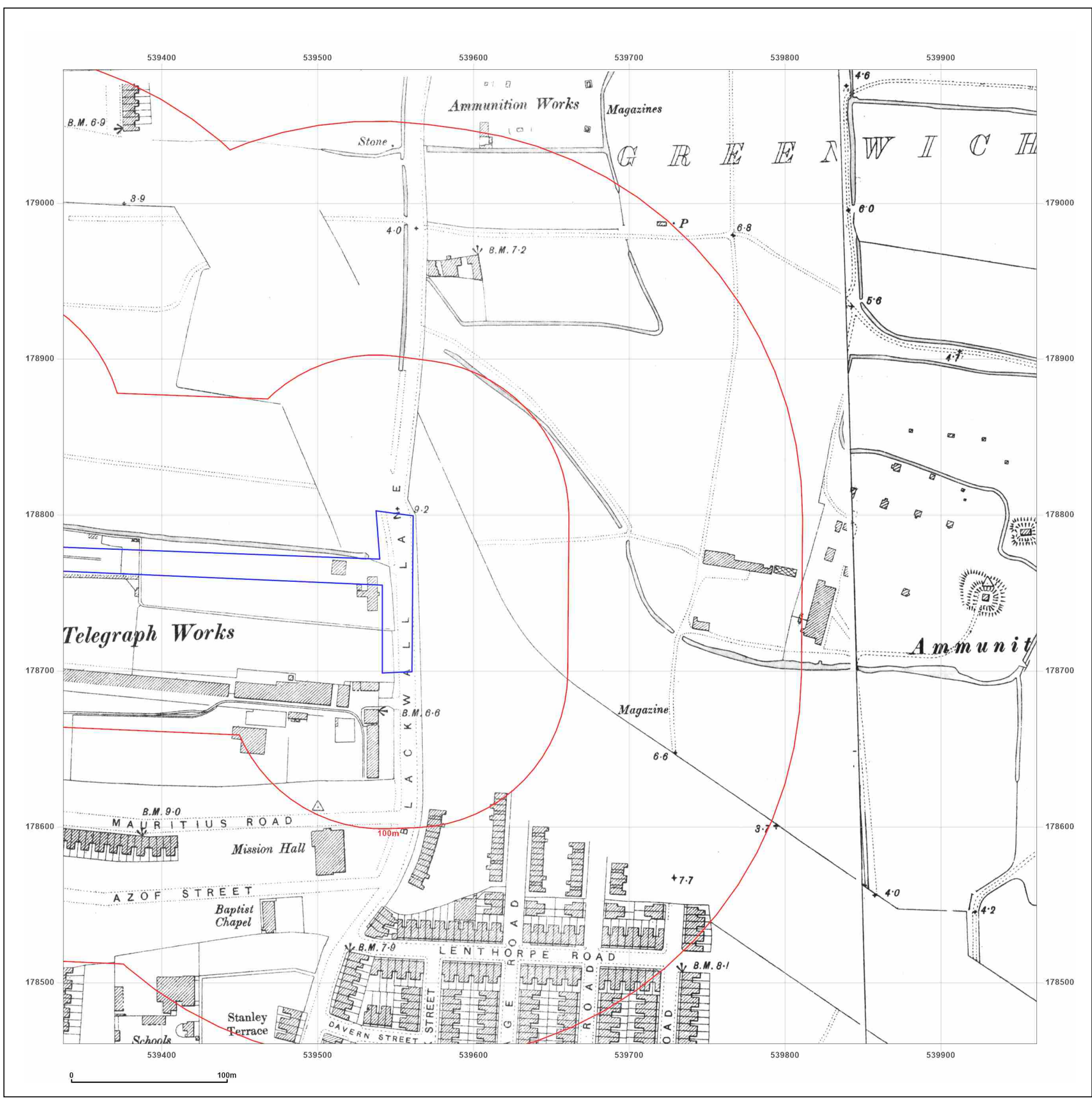


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_2_1
Grid Ref: 539649, 178773

Map Name: County Series

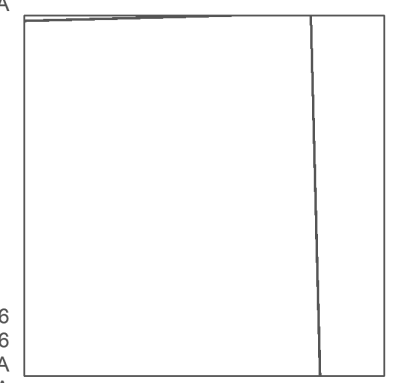
Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



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



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

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

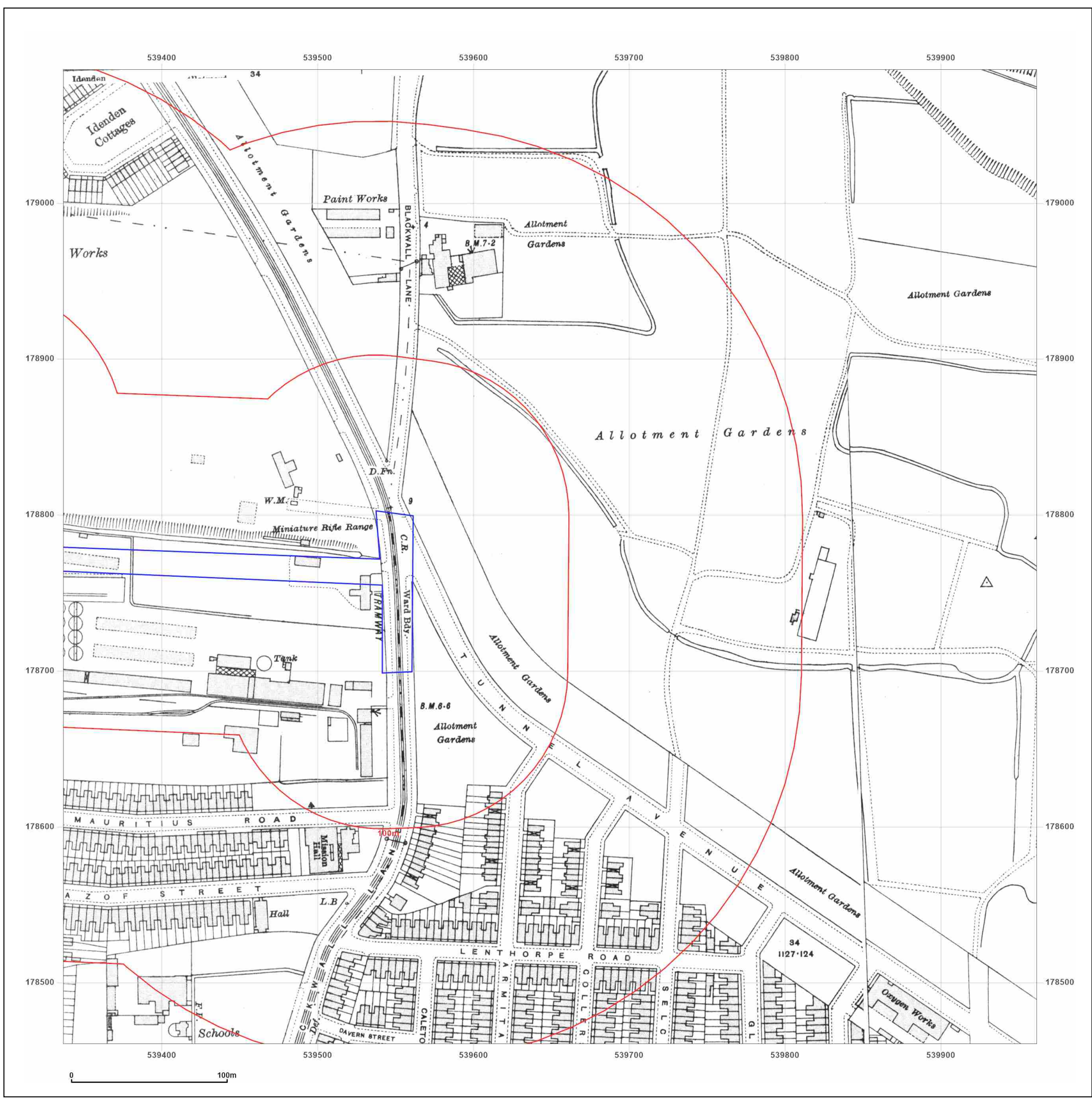


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL_LS_2_1
Grid Ref: 539649, 178773

Map Name: National Grid

Map date: 1951-1953

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

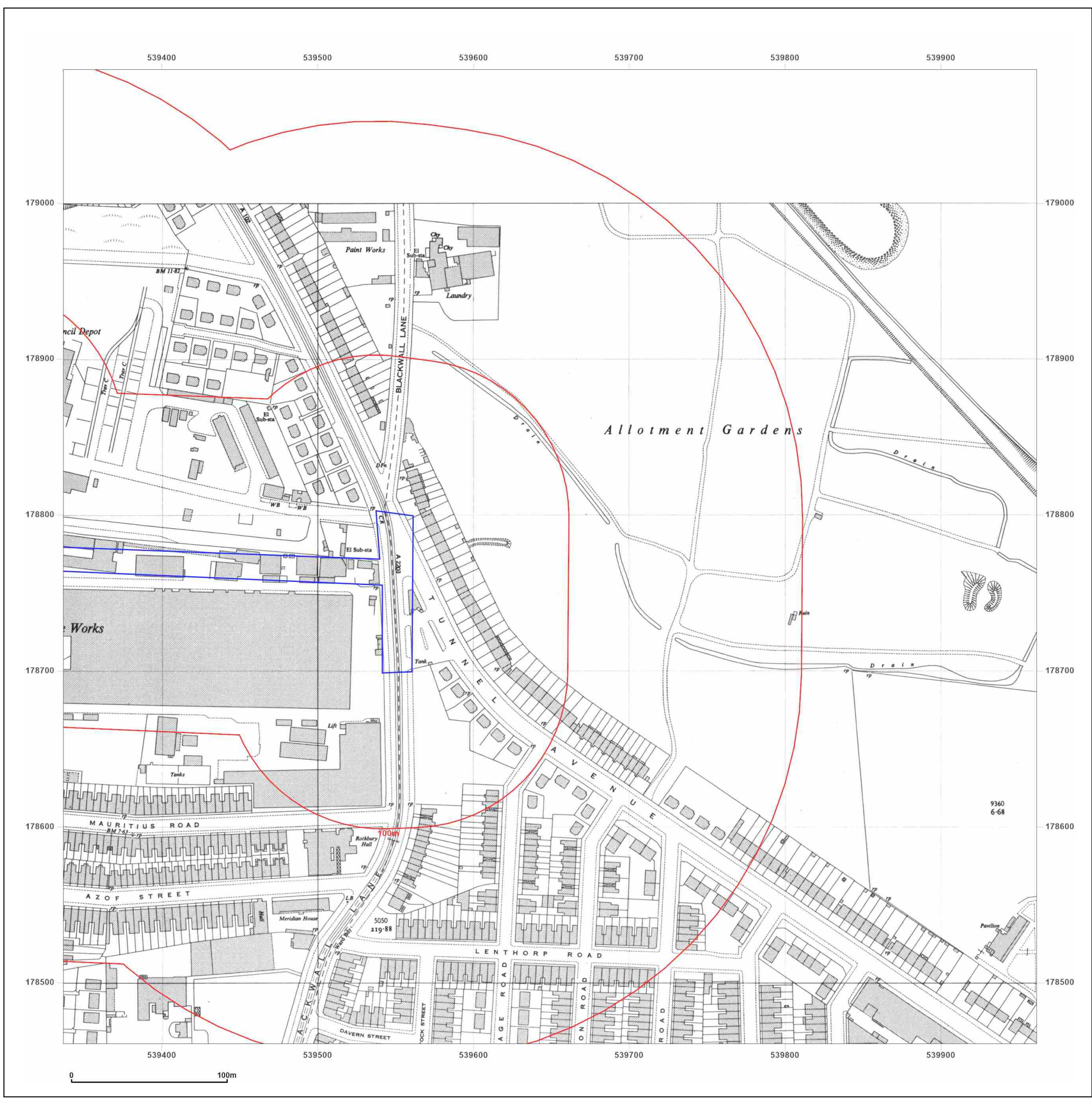


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

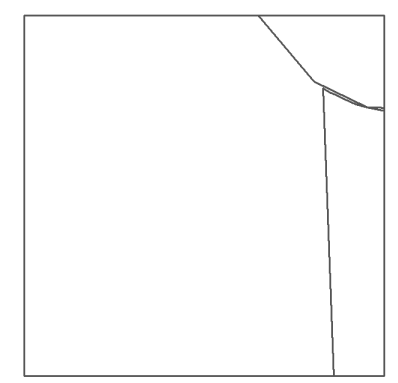
Map date: 1866-1867

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A



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

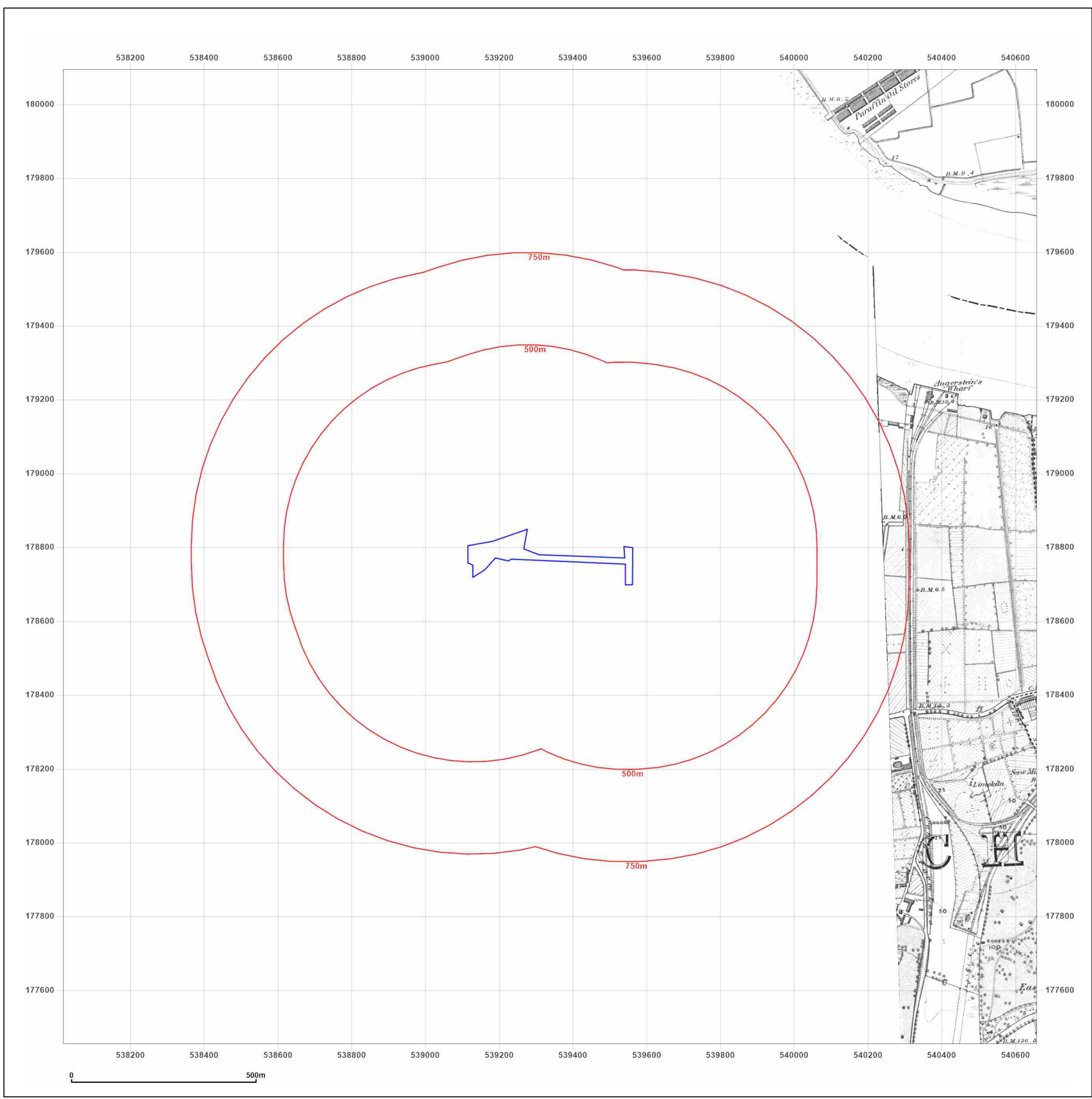


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1872

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1863
Revised N/A
Edition 1872
Copyright N/A
Levelled N/A

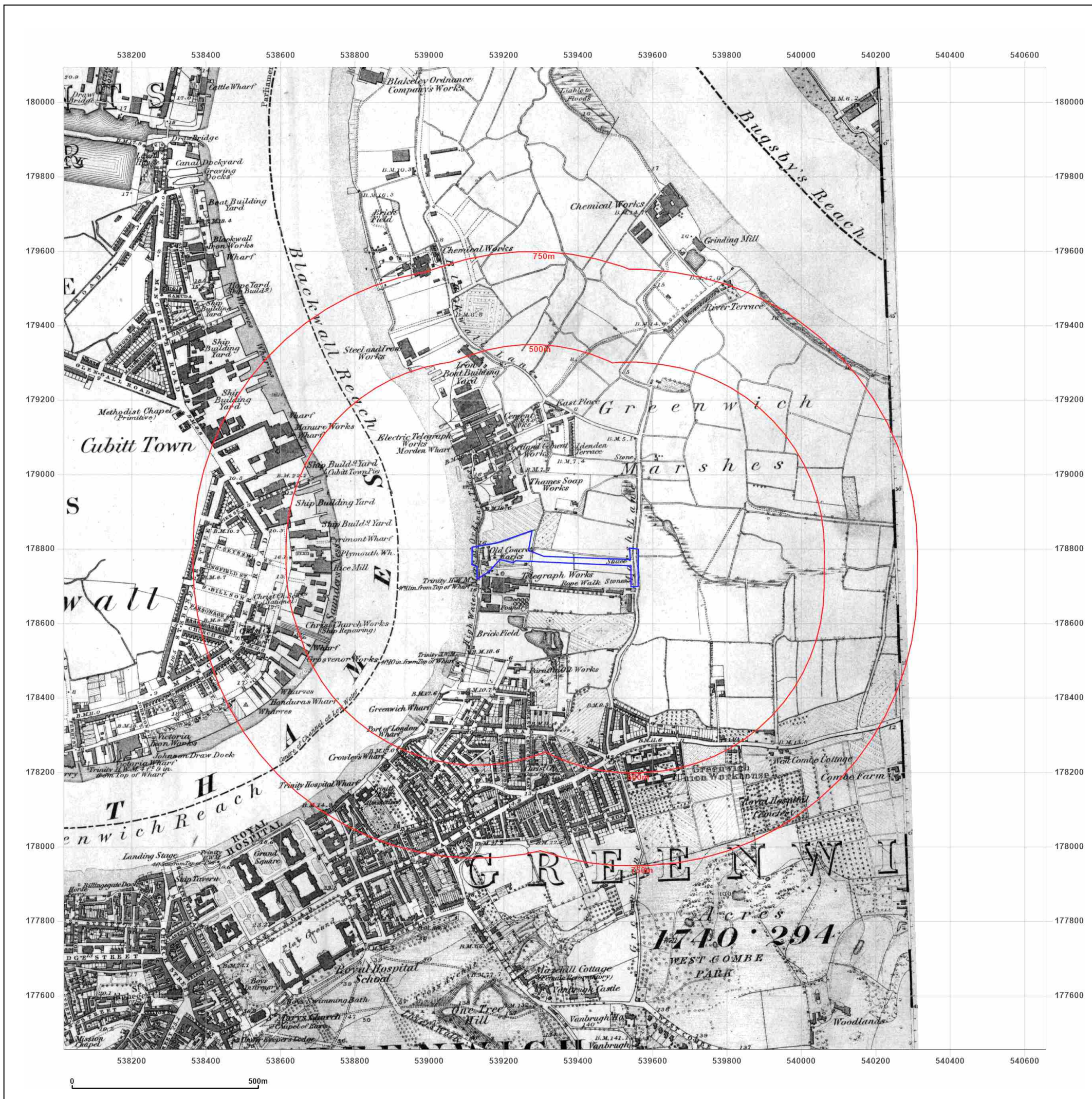


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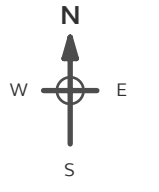


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series
Map date: 1882
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
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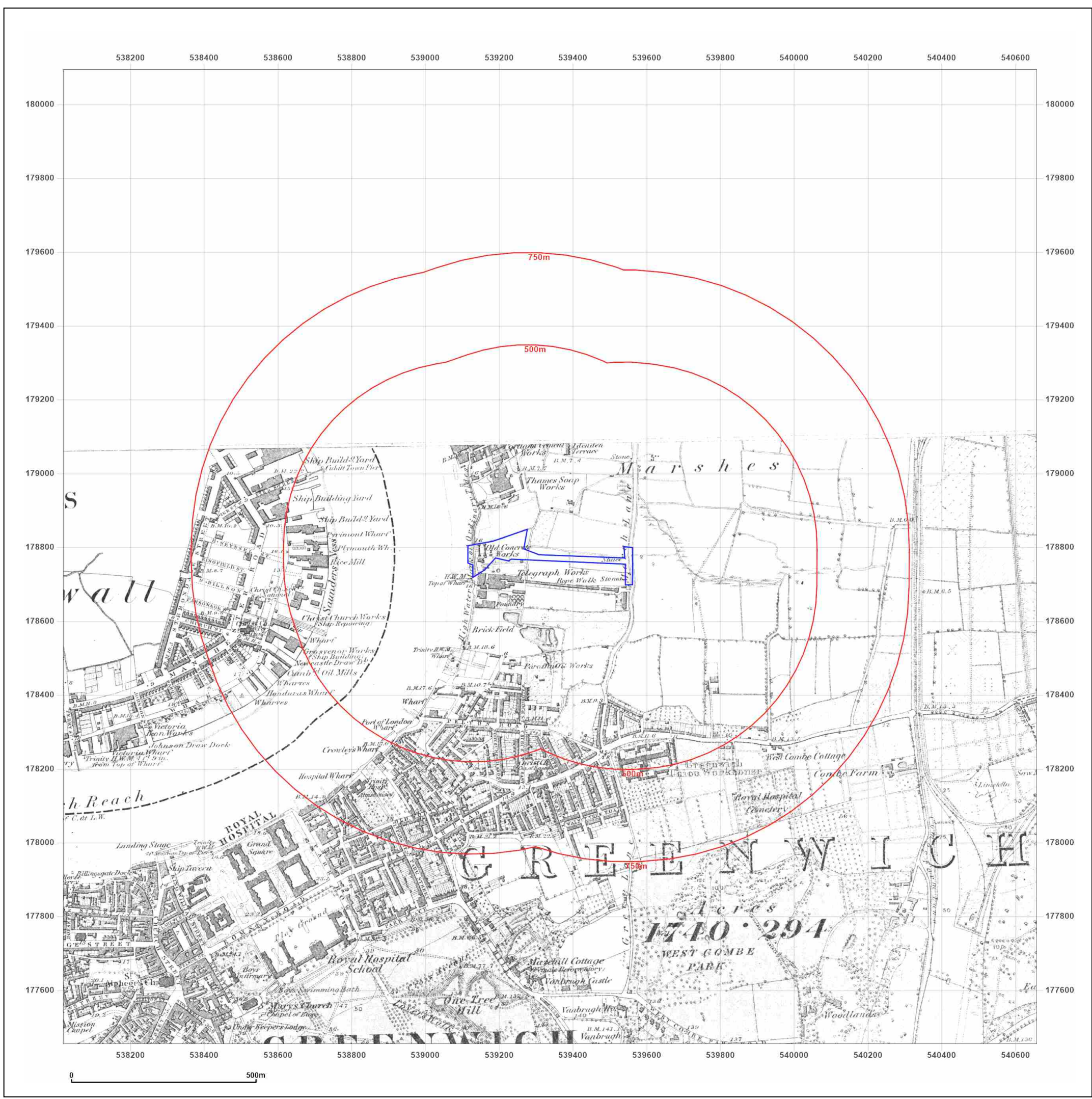


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1894

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1894
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1894
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

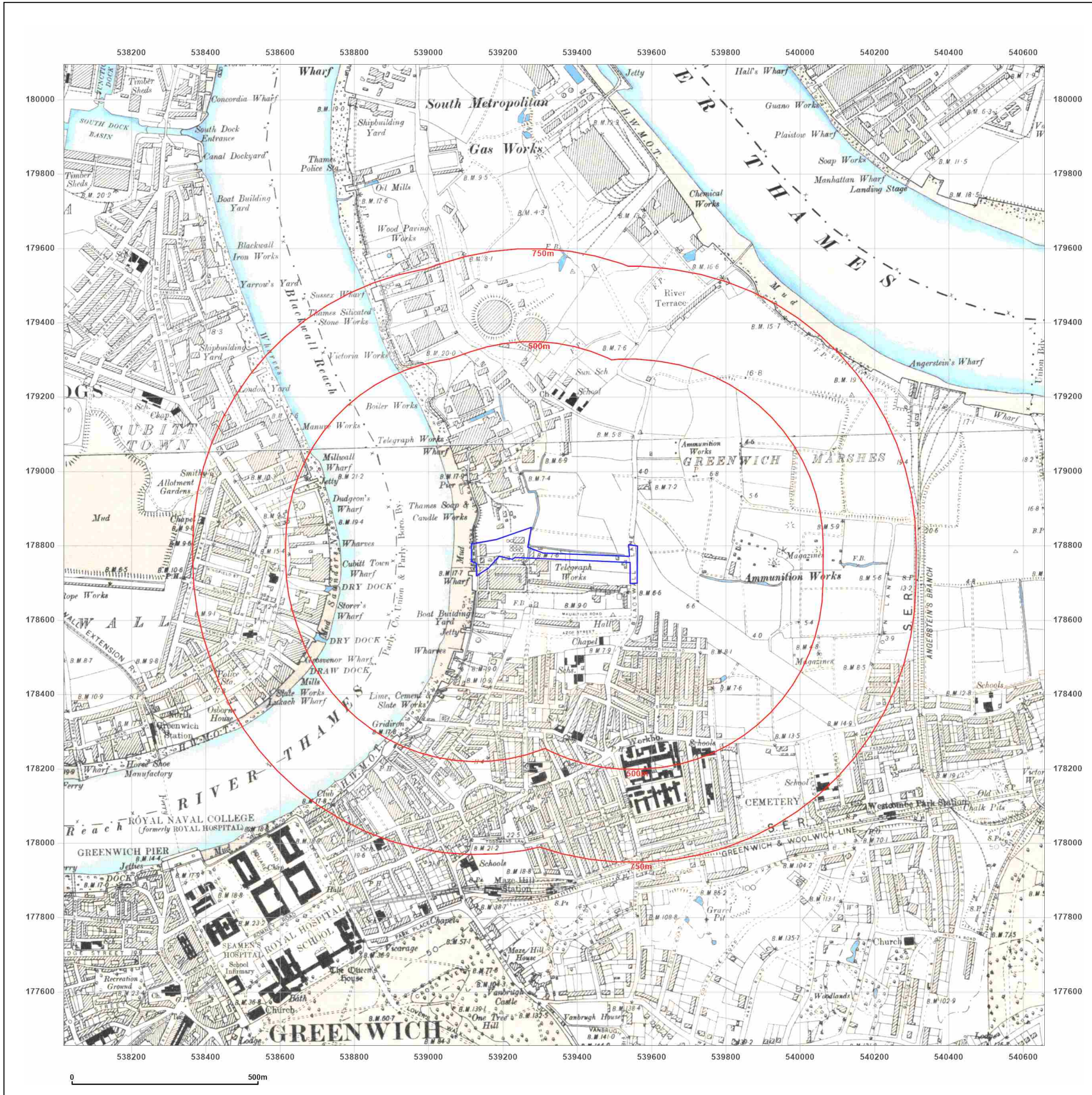


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Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1870
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1894
Edition 1896
Copyright N/A
Levelled N/A

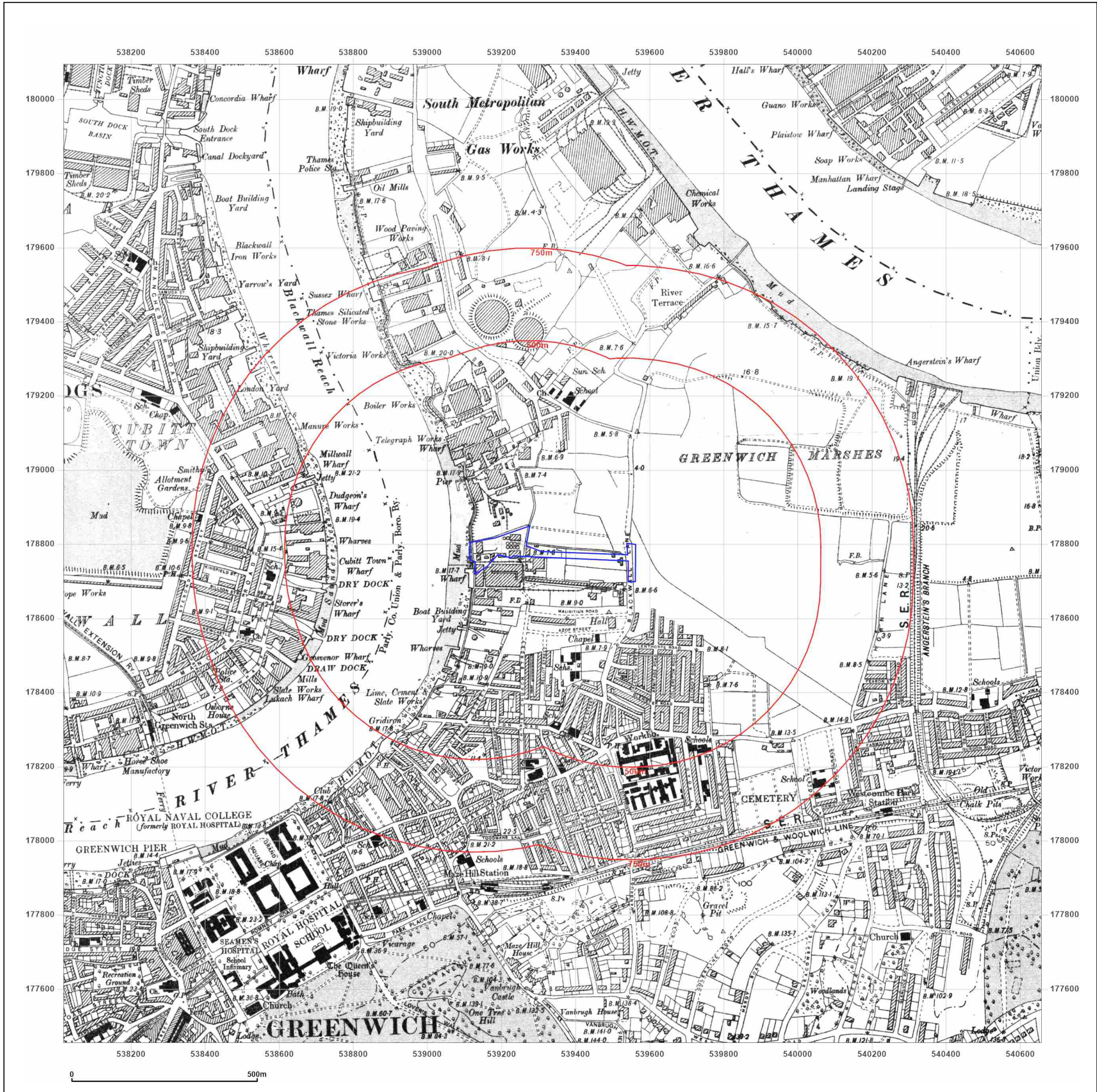


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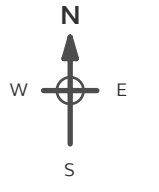
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Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1894-1898

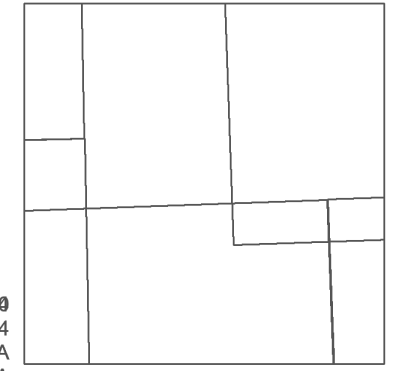
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Printed at: 1:10,560



Surveyed 1894
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1890
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

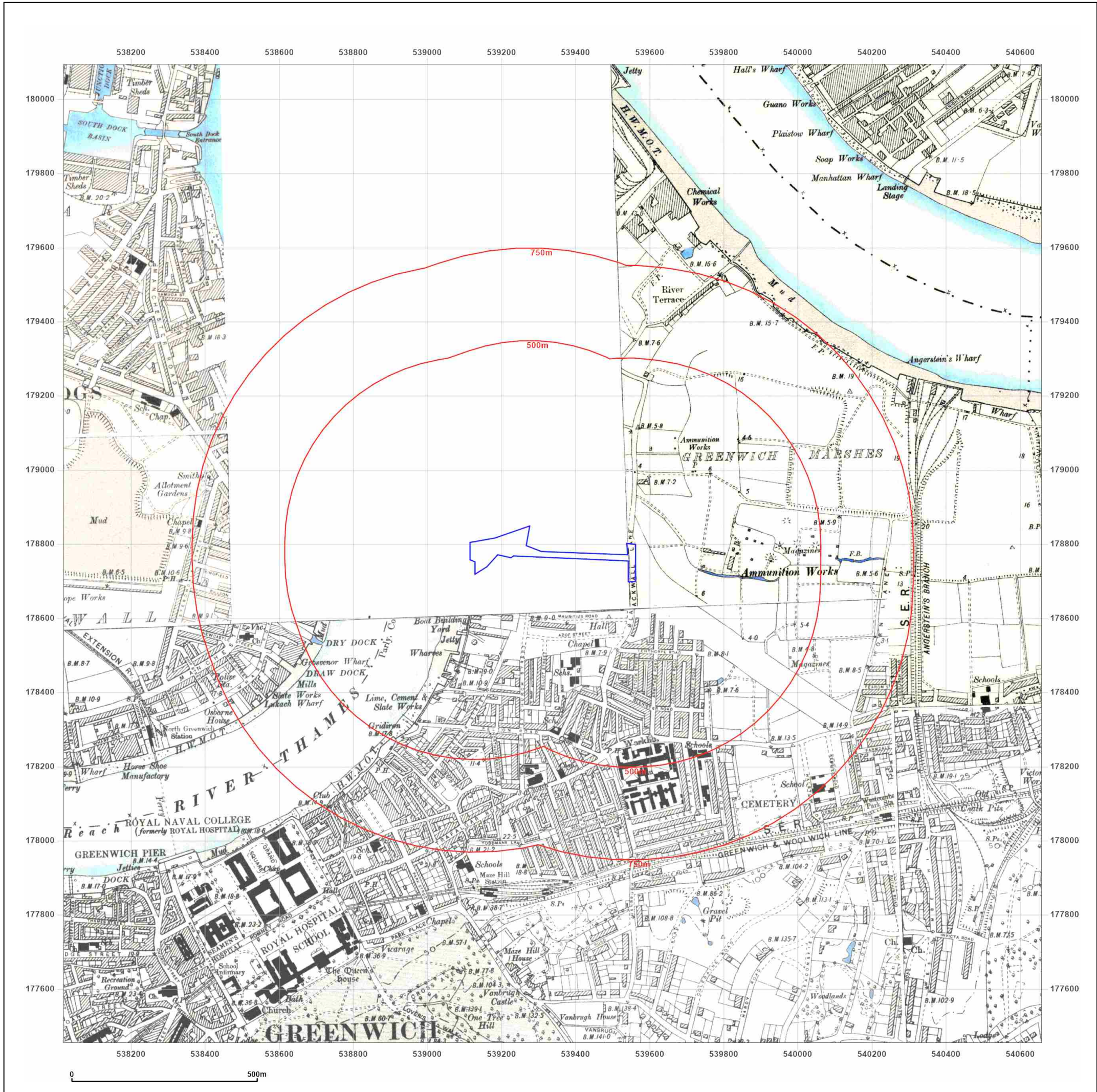


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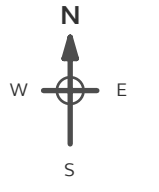
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Map Name: County Series

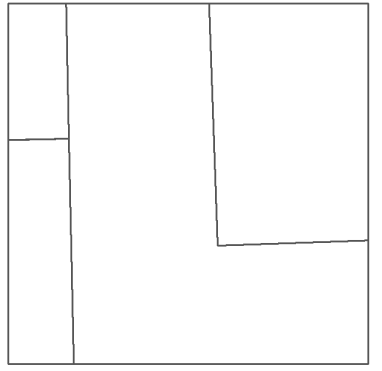
Map date: 1894-1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1894
Revised 1894
Edition 1898
Copyright N/A
Levelled N/A



Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1894
Revised 1894
Edition 1898
Copyright N/A
Levelled N/A

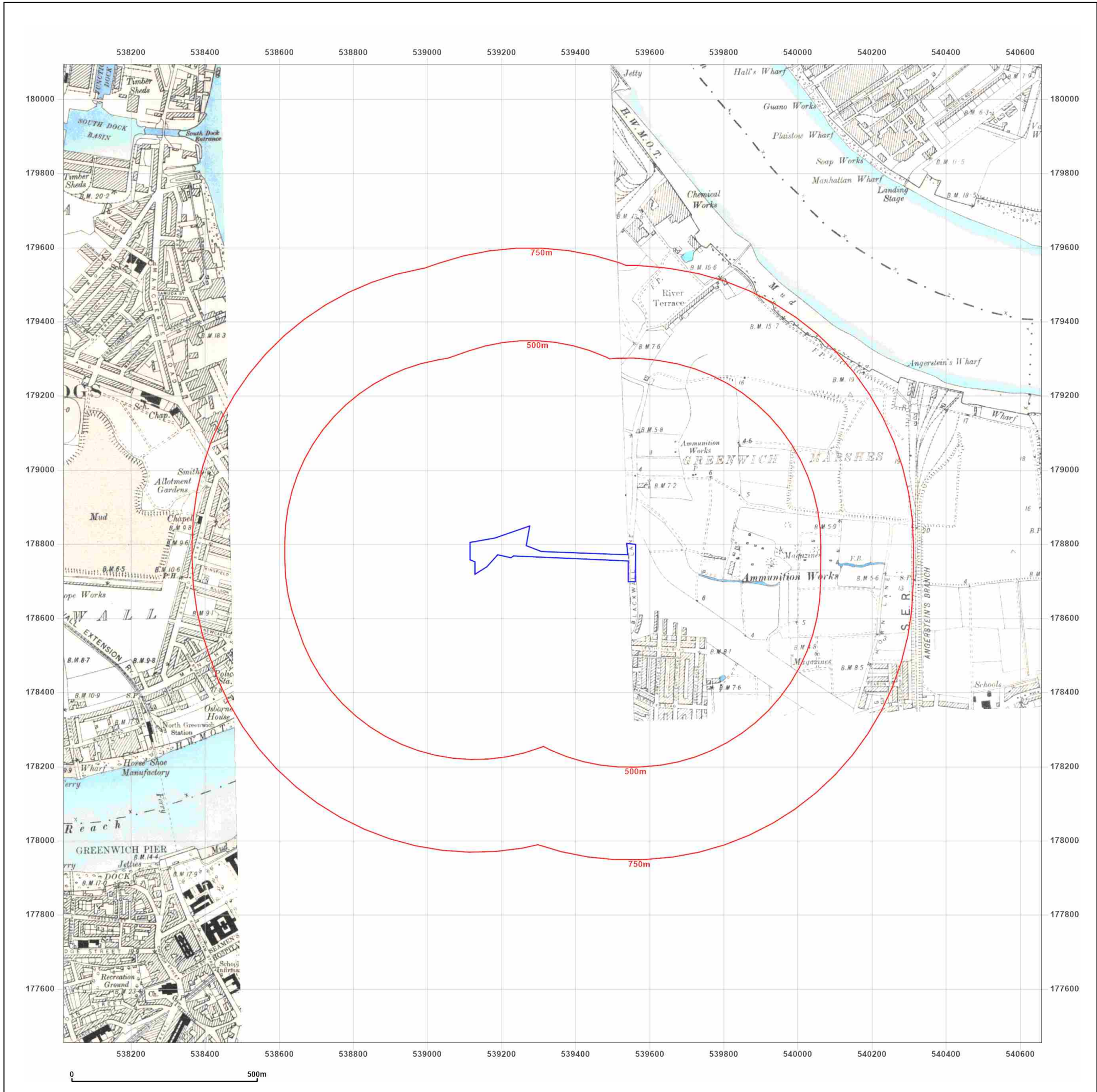


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1894-1899

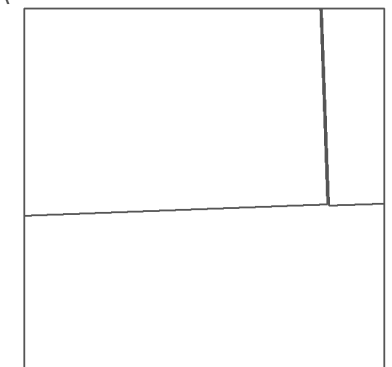
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Printed at: 1:10,560



Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1866
Revised 1894
Edition 1899
Copyright N/A
Levelled N/A

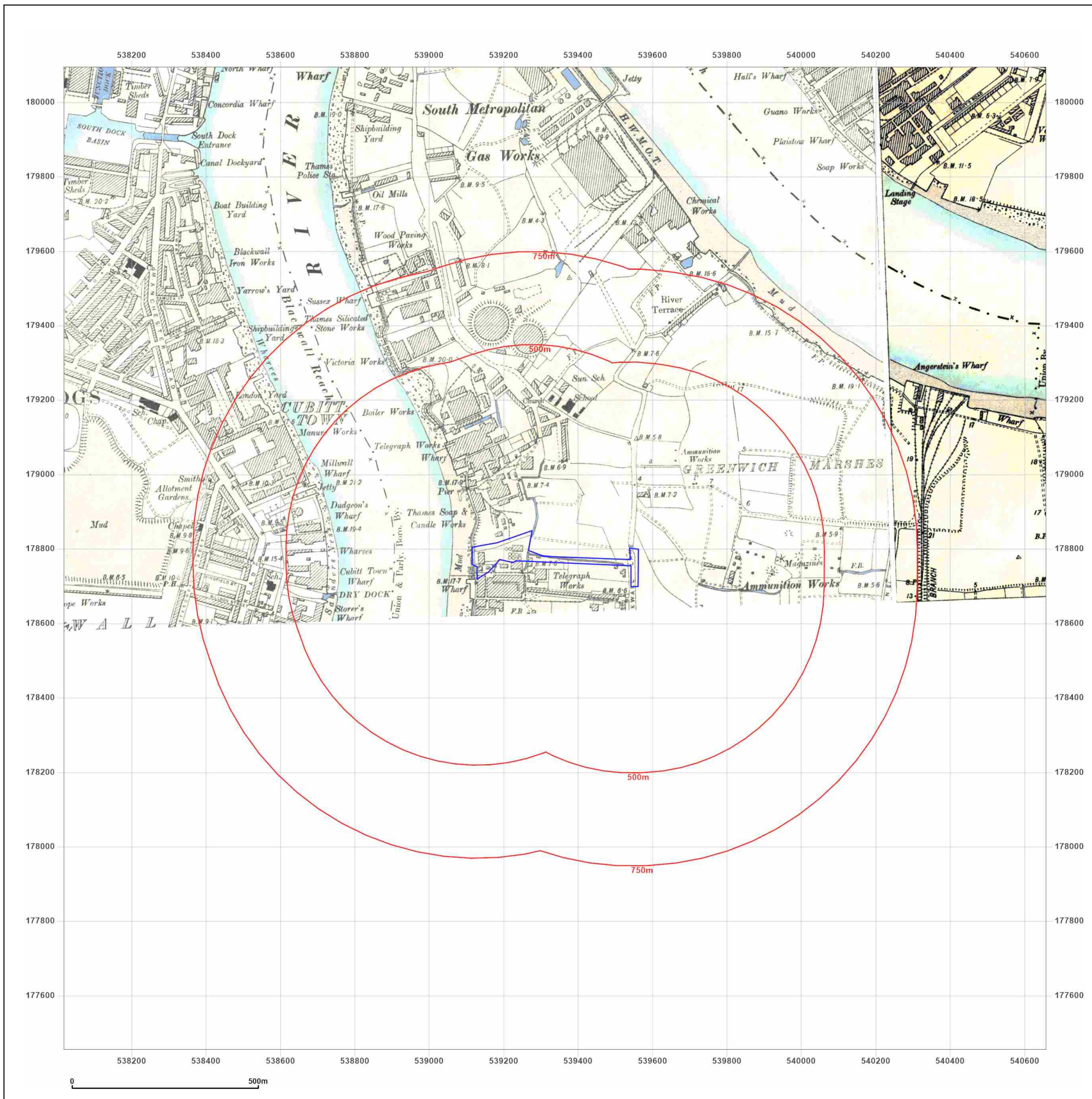


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Grid Ref: 539337, 178774

Map Name: County Series

Map date: 1894-1899

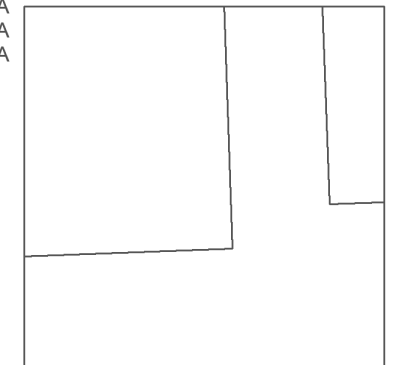
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Printed at: 1:10,560



Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

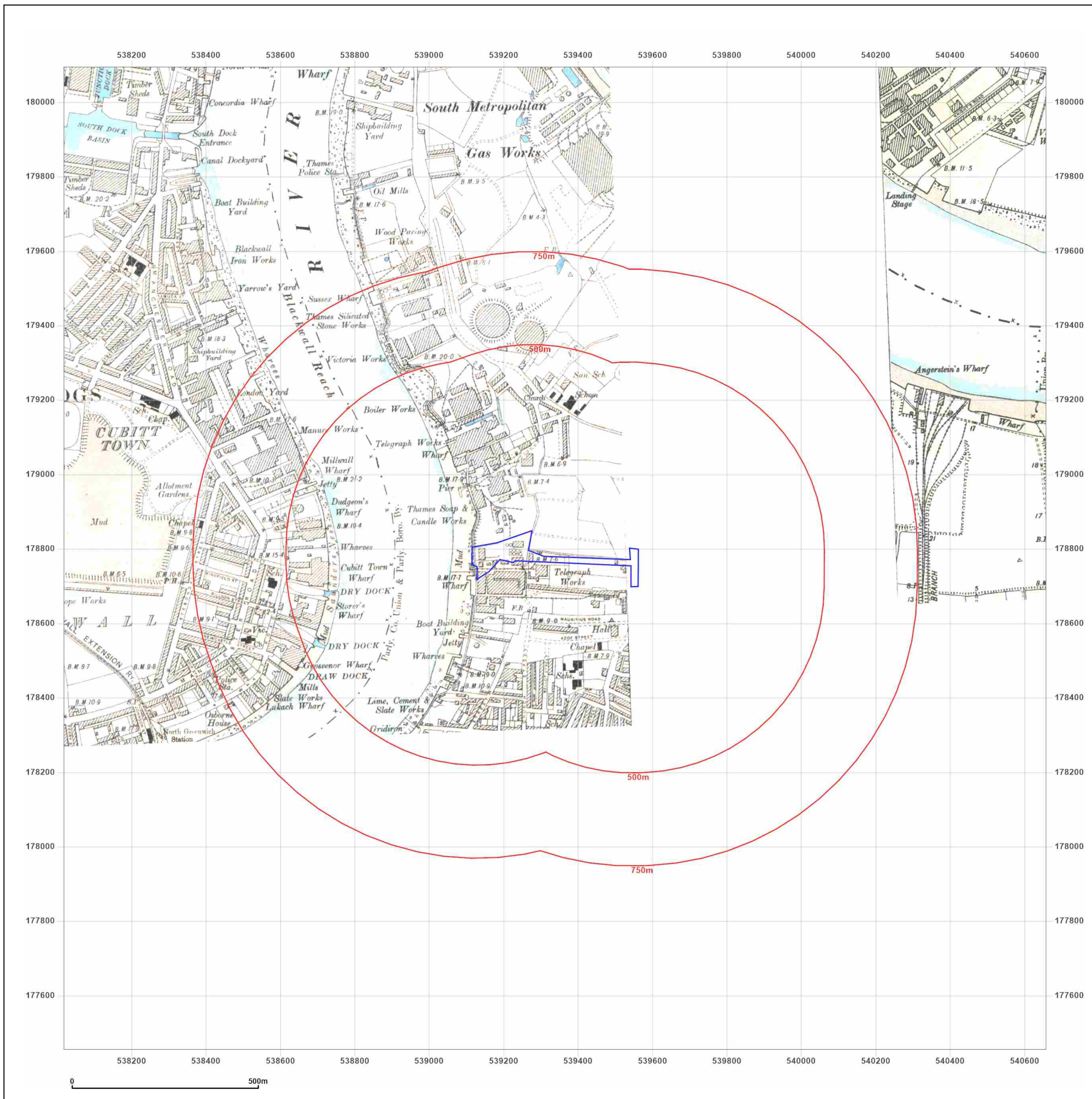


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CHRISTHURCH WAY,
GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

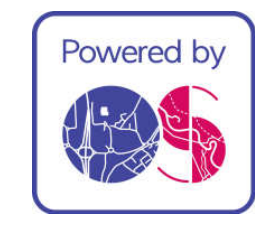
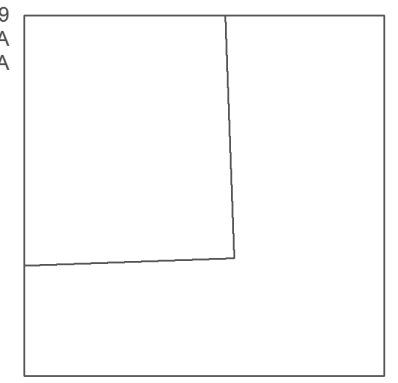
Map date: 1899

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1866
Revised 1894
Edition 1899
Copyright N/A
Levelled N/A

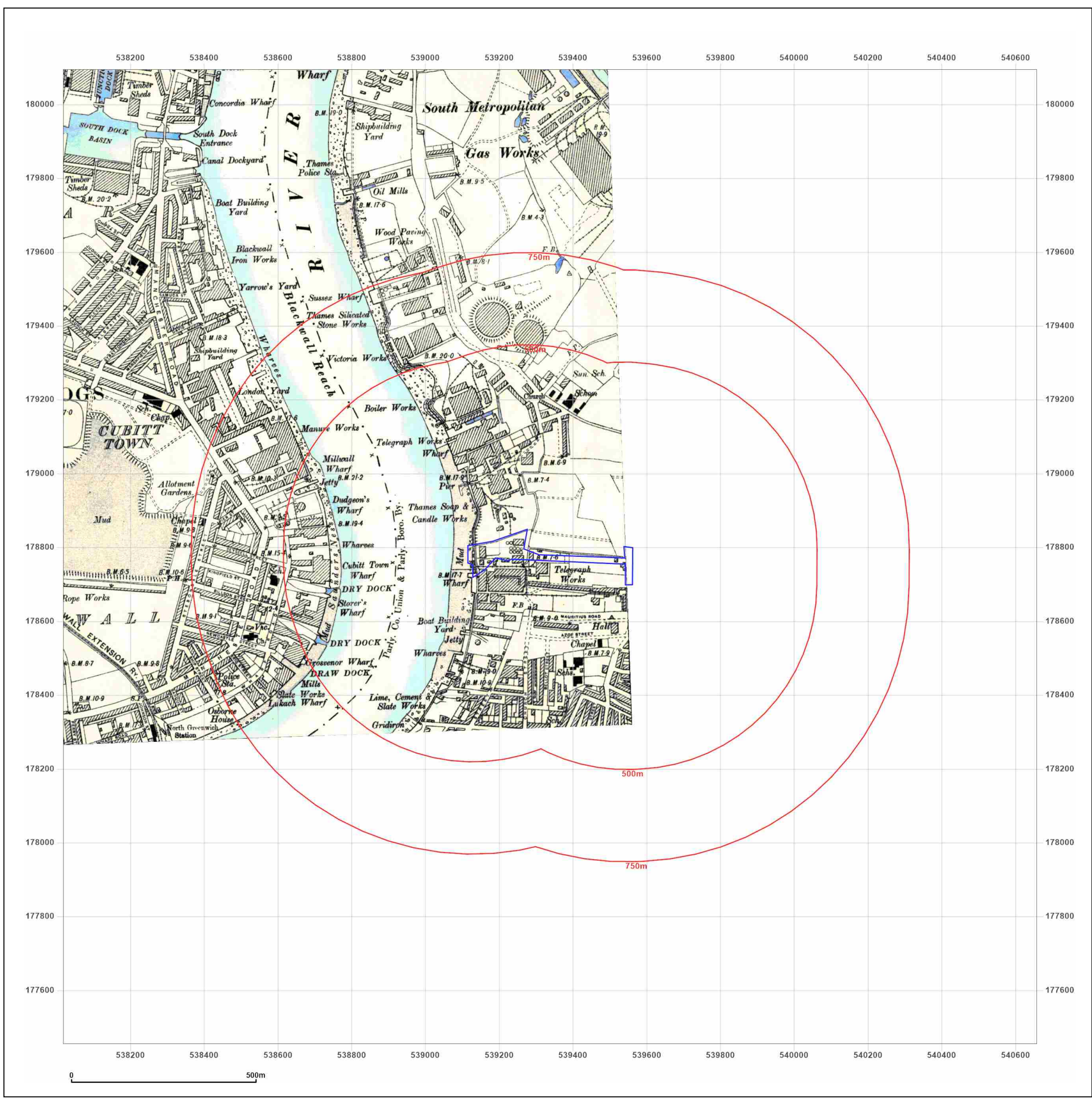


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GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series

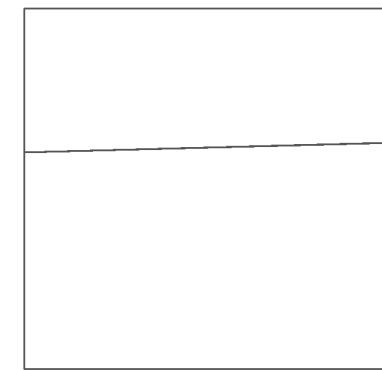
Map date: 1920

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
Revised 1919
Edition 1920
Copyright N/A
Levelled N/A



Surveyed 1867
Revised 1914
Edition 1920
Copyright N/A
Levelled N/A

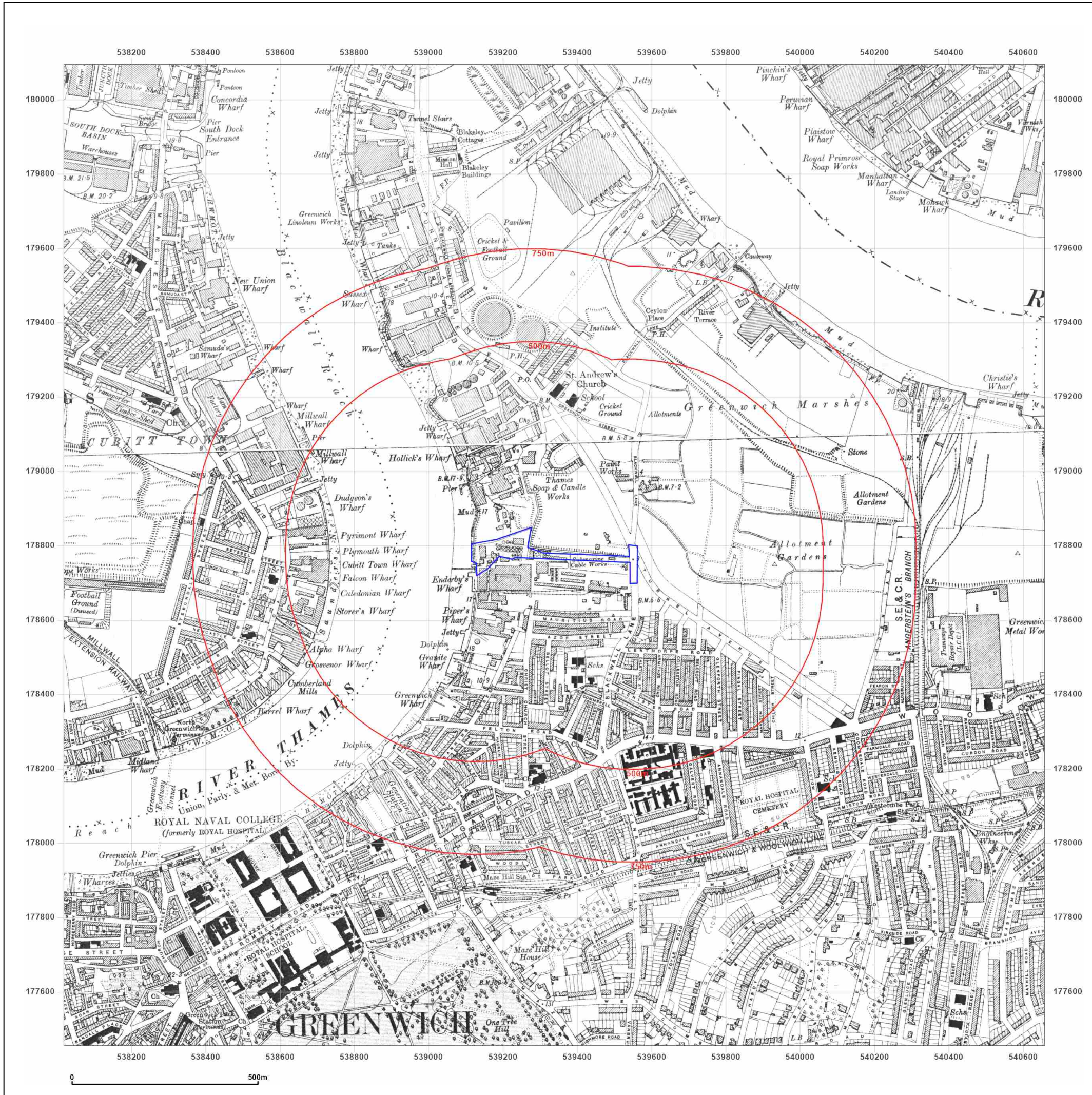


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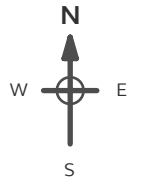


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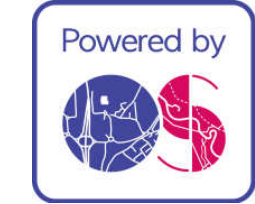
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CHRISTCHURCH WAY,
GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1867
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

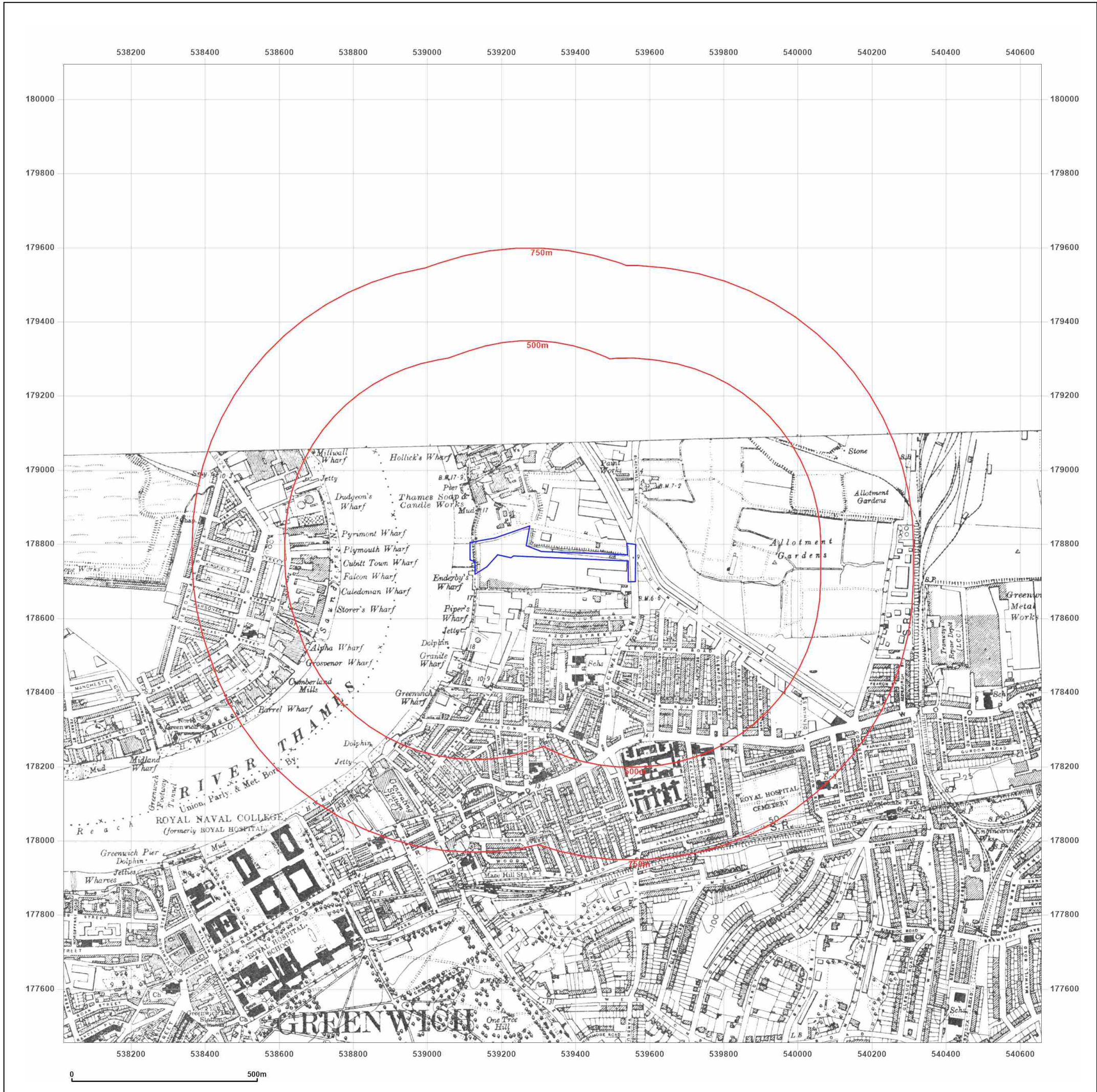


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GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: Provisional

Map date: 1948-1949

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1949
Edition N/A
Copyright N/A
Levelled 1934

Surveyed N/A
Revised 1948
Edition N/A
Copyright N/A
Levelled 1934

Surveyed 1940
Revised 1948
Edition N/A
Copyright N/A
Levelled 1935

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

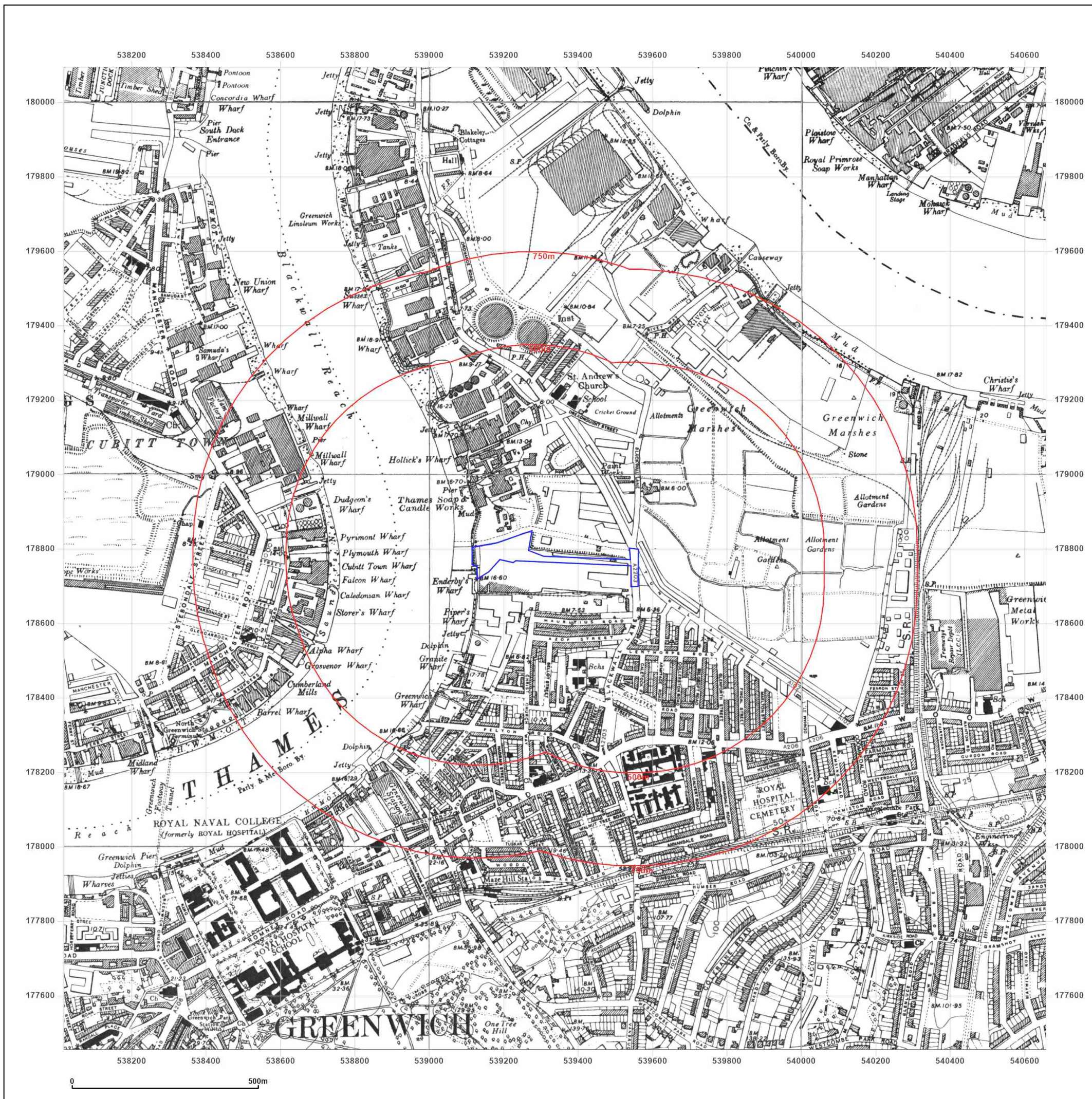


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: Provisional

Map date: 1950-1955

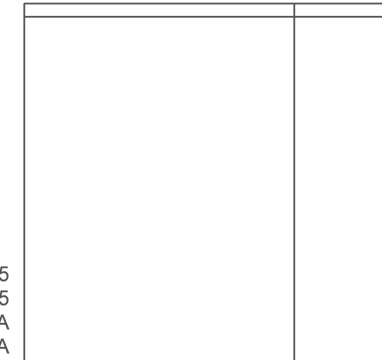
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
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Surveyed 1940
Revised 1948
Edition N/A
Copyright 1950
Levelled N/A



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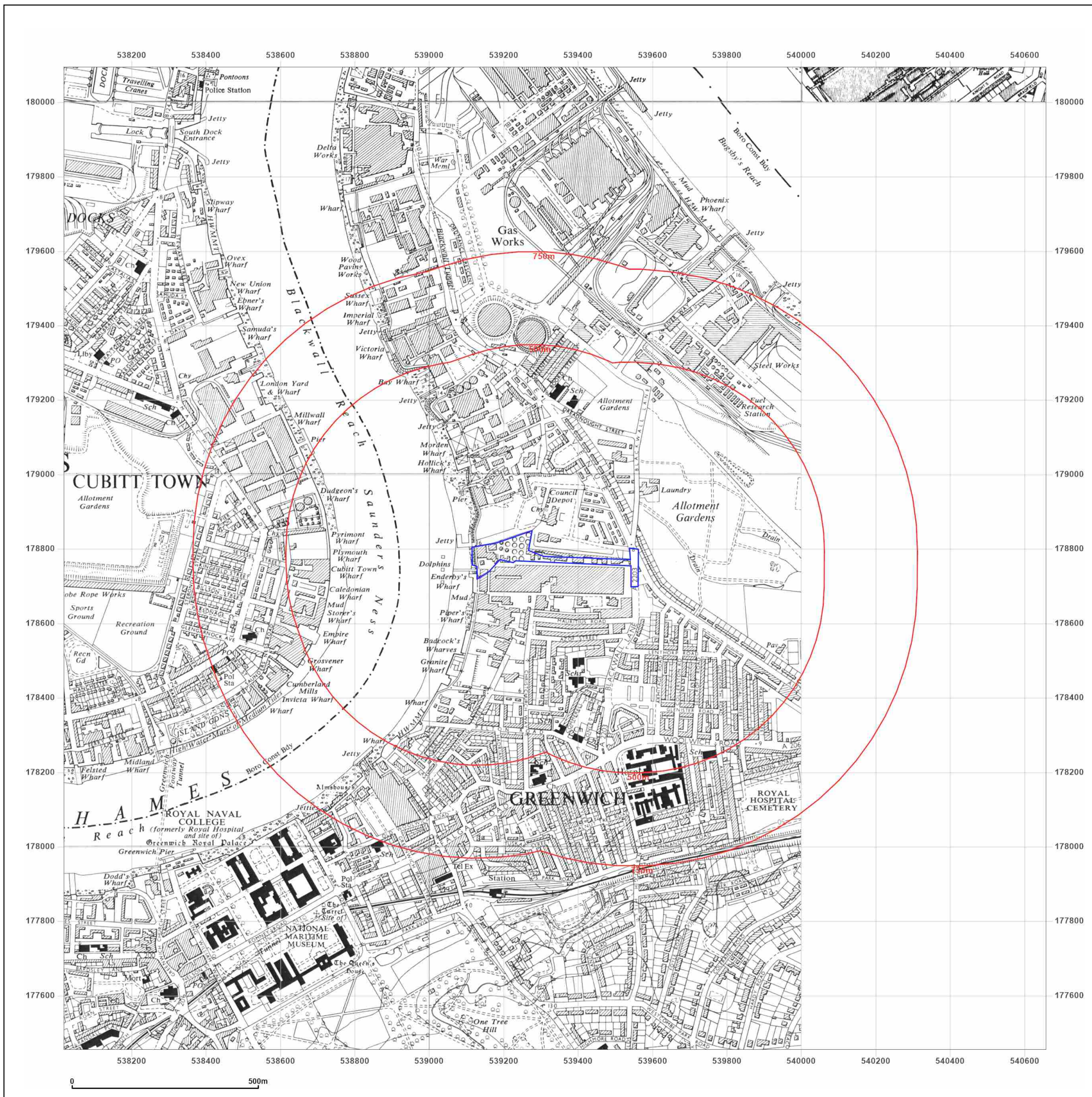


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: Provisional

Map date: 1962-1967

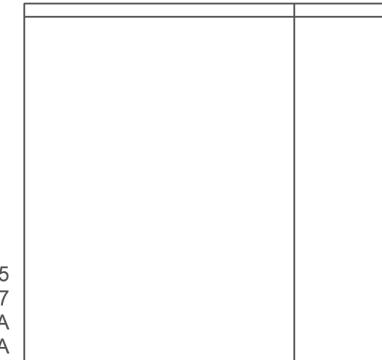
Scale: 1:10,560

Printed at: 1:10,560



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Revised 1965
Edition N/A
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Surveyed 1966
Revised 1966
Edition N/A
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Surveyed 1965
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1962
Revised 1962
Edition N/A
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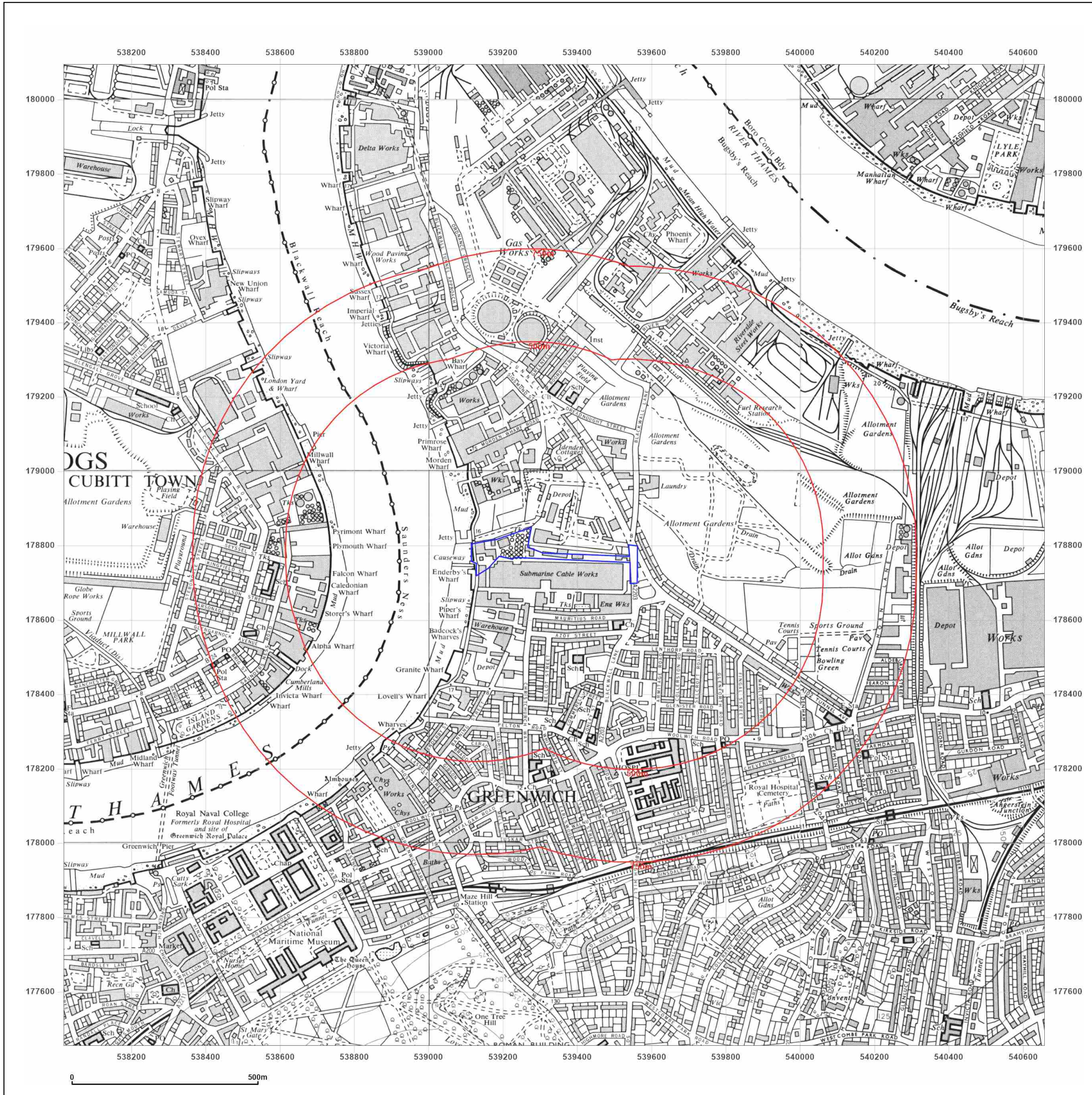


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 1973-1974

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
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Surveyed 1973
Revised 1974
Edition N/A
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Surveyed 1972
Revised 1973
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Copyright N/A
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Surveyed 1974
Revised 1974
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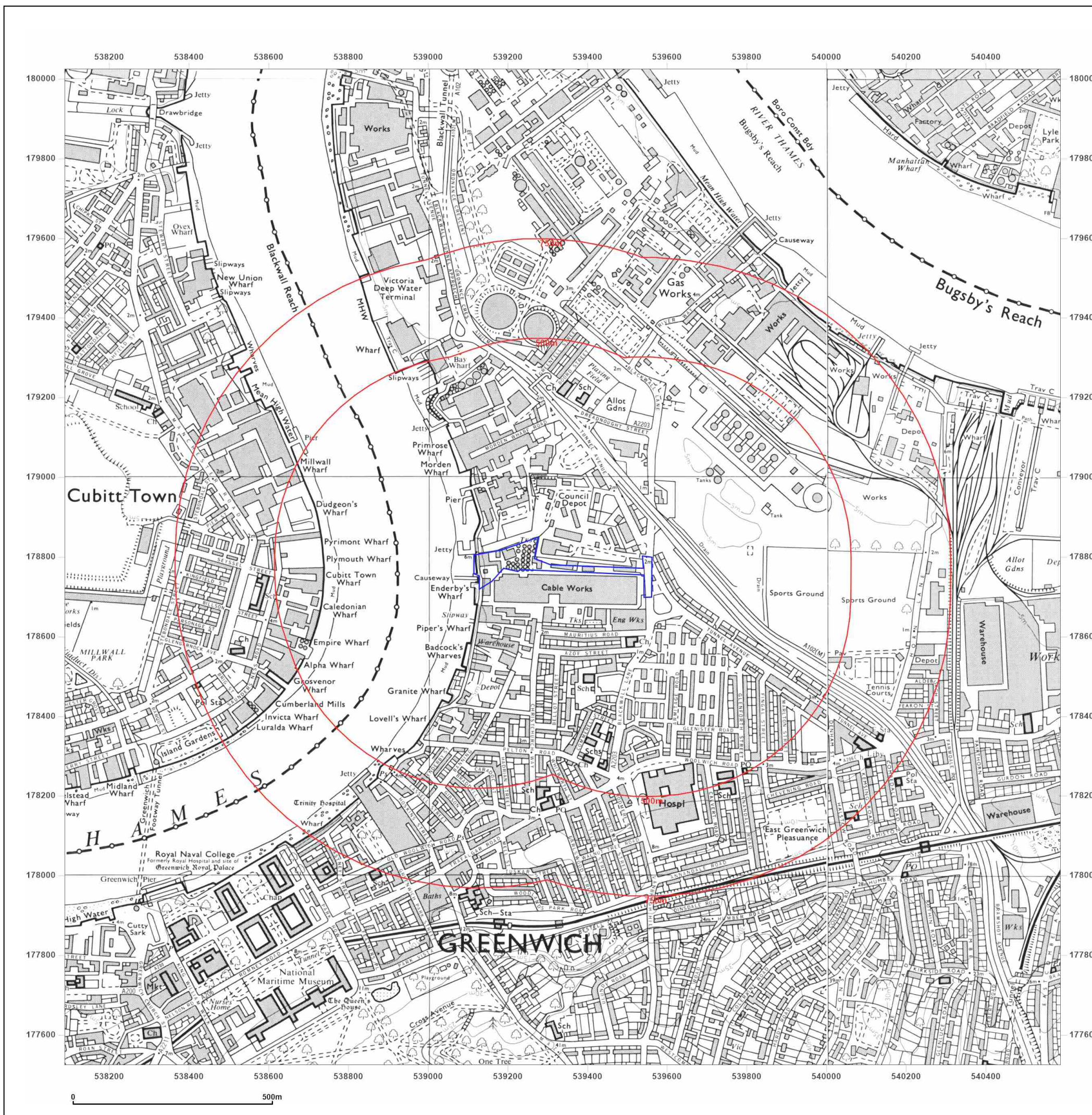


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 1979-1982

Scale: 1:10,000

Printed at: 1:10,000



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Revised 1982
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Surveyed 1978
Revised 1979
Edition N/A
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Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
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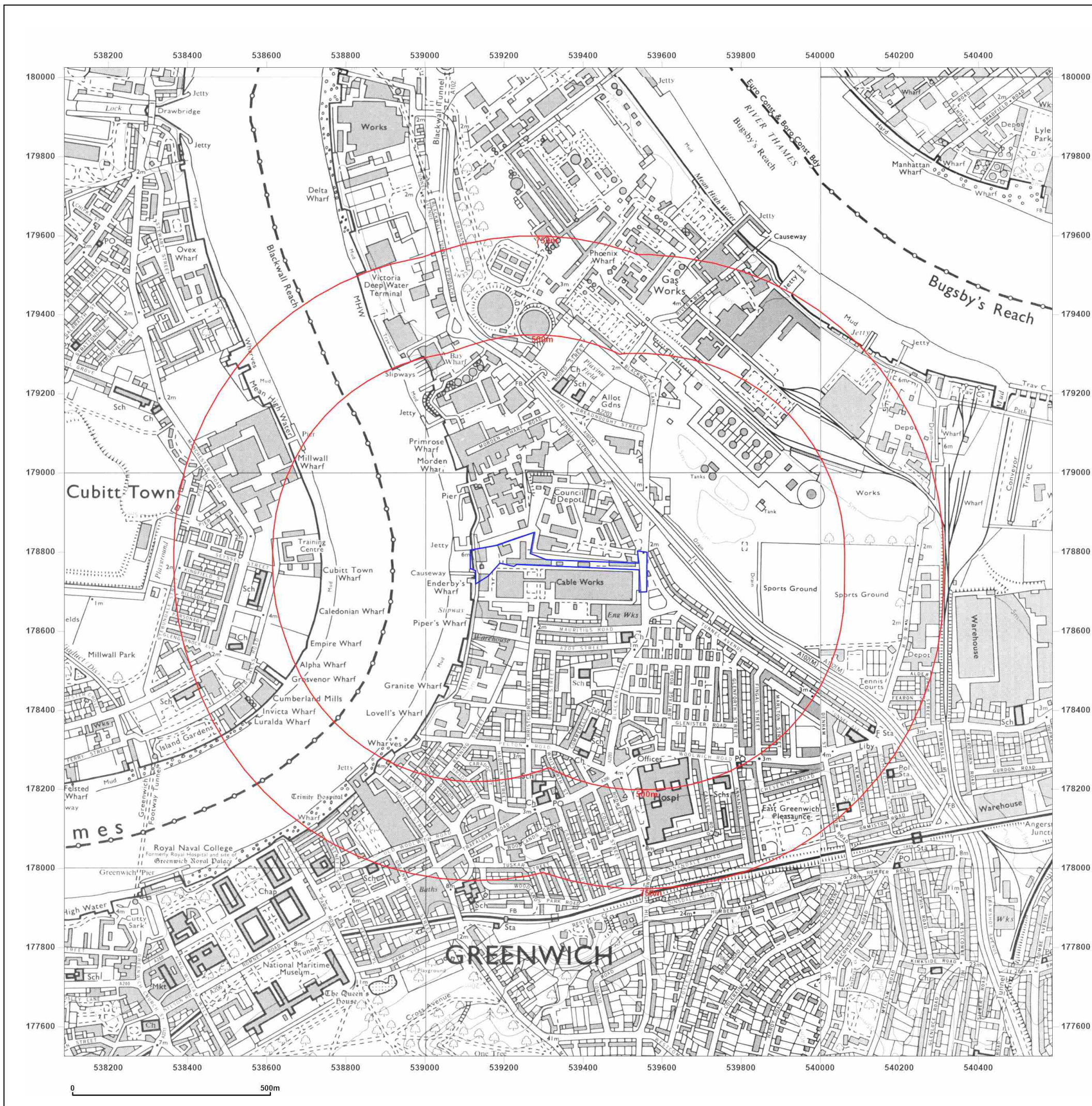


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 1988-1990

Scale: 1:10,000

Printed at: 1:10,000



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Surveyed 1989
Revised 1990
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Levelled N/A

Surveyed 1988
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Levelled N/A

Surveyed 1980
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

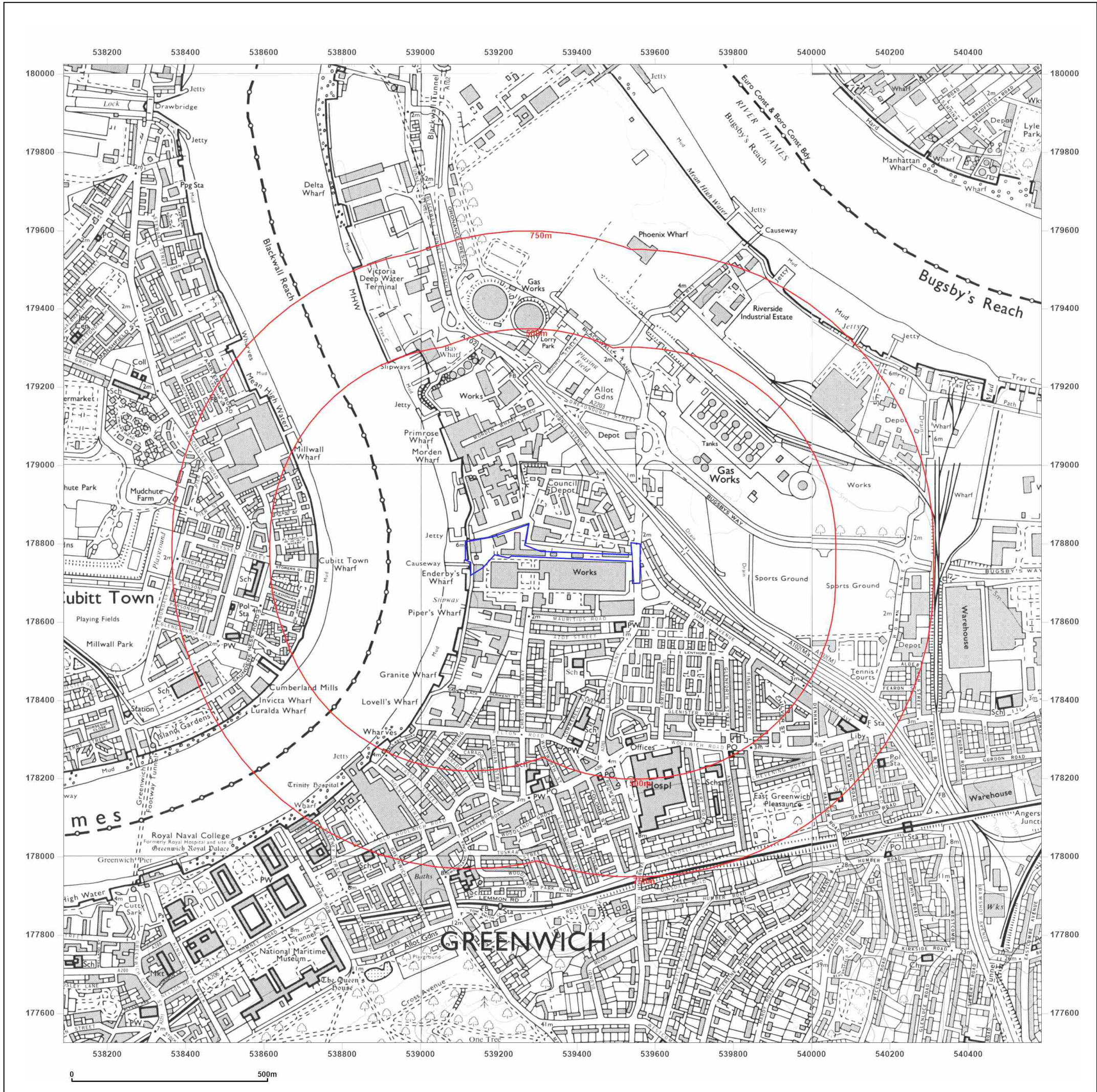


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Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 1994-1995

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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Levelled N/A

Surveyed 1989
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1988
Revised 1994
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1980
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

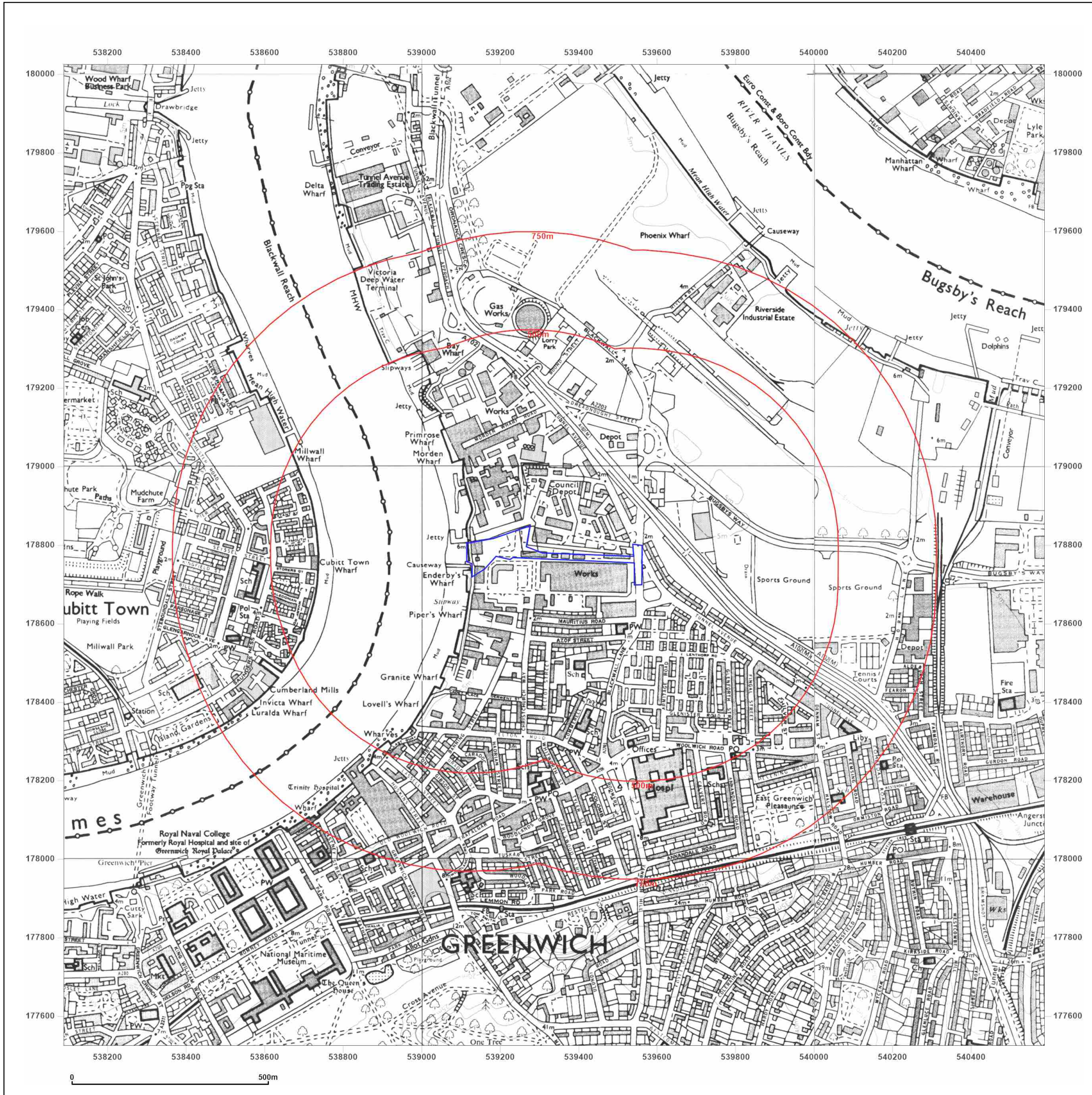


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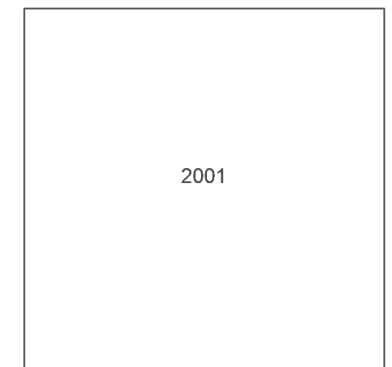
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Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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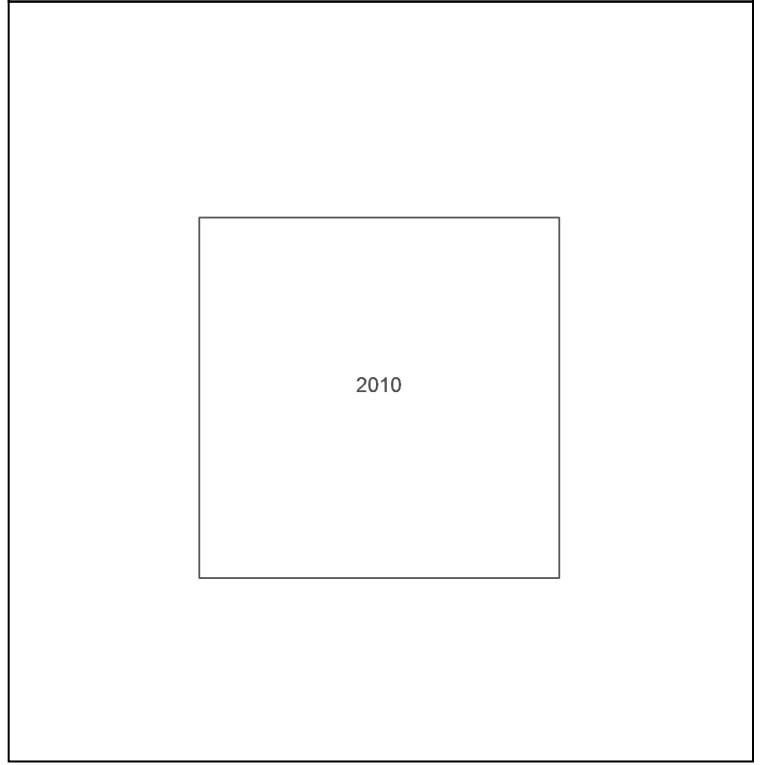
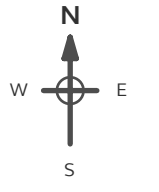
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Site Details:
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 CHRISTHURCH WAY,
 GREENWICH, SE10 0AG

Client Ref: MES2310CC
Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

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



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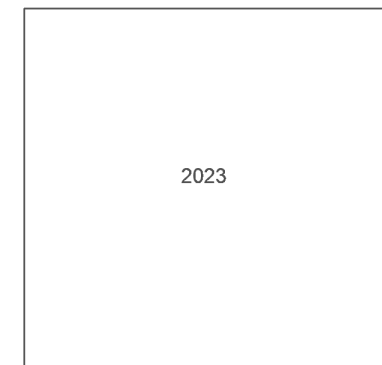
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Report Ref: GS-OQO-WF4-MGU-DLL
Grid Ref: 539337, 178774

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



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Borehole Log

SR1016A

Page 1 of 17

Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410







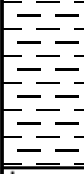
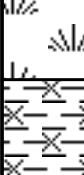
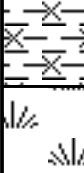

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
					0.05	2.28		MADE GROUND Tarmacadam Drillers description	0.5
					0.75 0.80	1.58 1.53		MADE GROUND Concrete Drillers description	1.0
					1.40	0.93		MADE GROUND Sand and Gravel Drillers description	1.5
					2.50	-0.17		MADE GROUND Grey clay and bricks Drillers Description	2.0
								MADE GROUND Clay and ash fill Drillers description	2.5
					3.40	-1.07		Soft grey CLAY Drillers description ALLUVIUM	3.0
					3.70	-1.37		Soft brown PEAT Drillers description ALLUVIUM	3.5
				4.30	-1.97		Soft grey silty CLAY with peat Drillers description ALLUVIUM	4.0	
							Soft brown PEAT Drillers description ALLUVIUM	4.5	

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Borehole Log

SR1016A

Page 2 of 17

Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410






Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
					5.10	-2.77		Soft brown PEAT Drillers description ALLUVIUM	5.5
					6.20	-3.87		Grey CLAY with peat Drillers description ALLUVIUM	6.5
					10.00	-7.67		Dense SAND and GRAVEL drillers description RIVER TERRACE DEPOSITS	8.5

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Borehole Log

SR1016A

Page 3 of 17

Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
Well	Water	10.0	D					Stiff dark grey silty CLAY with many subangular shell fragments 25mm dia oyster thin to thick laminations of shell fragments and occasional medium to coarse gravel size pockets of grey fine to medium sand LAMBETH GROUP LOWER SHELLY BEDS	10.5
		11.0	D			11.0			
		12.0	D		12.10	-9.77			12.0
		12.0	D		12.30	-9.97			12.5
		13.0	D						13.0
							CALCRETE drillers description LAMBETH GROUP LOWER MOTTLED BEDS	13.5	
14.0	D				14.0				
							Stiff light bluish grey locally mottled dark brownish green sandy CLAY Sand is fine to medium LAMBETH GROUP LOWER MOTTLED BEDS	14.5	
						14.5			

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Borehole Log

SR1016A

Page 4 of 17

Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		15.0	D					Stiff light bluish grey locally mottled dark brownish green sandy CLAY Sand is fine to medium LAMBETH GROUP LOWER MOTTLED BEDS	15.5
		16.0	D						16.0
		16.2	D		16.20	-13.87			16.5
		17.0	D						17.0
		18.0	D						17.5
		19.0	D		19.00	-16.67			18.0
		19.1	ES						18.5
		19.2 - 19.5	B						19.0
									19.5

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Borehole Log

SR1016A

Page 5 of 17

Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m	
		Depth (m)	Type							
		20.0	D					Greyish green very clayey fine to medium SAND LAMBETH GROUP UPNOR FORMATION		
		20.2 - 20.5	B						20.5	
		21.0	D						21.0	
		21.2 - 21.5	B						21.5	
		22.0	D						22.0	
		22.2 - 22.5	B						22.5	
		23.0	D						23.0	
		23.2 - 23.5	B						23.5	
		24.0	D						24.0	
		24.2 - 24.5	B						24.5	
						25.00			-22.67	

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Borehole Log

SR1016A

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		25.0	D					Grey slightly silty fine and medium SAND with some pockets of dark grey clayey fine sand 2mm THANET SAND FORMATION	25.5
									26.0
									26.5
									27.0
									27.5
									28.0
									28.5
									29.0
									29.5

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

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Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
								Grey slightly silty fine and medium SAND with some pockets of dark grey clayey fine sand 2mm THANET SAND FORMATION	30.5
									31.0
								Grey very clayey fine and medium SAND BULLHEAD BEDS	31.5
									32.0
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 20 deg widely to medium spaced planar smooth closed locally open 3mm locally with silt infill SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	32.5
									33.0
					33.80	-31.47			33.5
									34.0
					34.20	-31.87			34.5
									34.5

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 20 deg widely to medium spaced planar smooth closed locally open 3mm locally with silt infill SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	35.5
									36.0
									36.5
									37.0
									37.5
									38.0
									38.5
									39.0
									39.5

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
					40.64	-38.31		Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 20 deg widely to medium spaced planar smooth closed locally open 3mm locally with silt infill SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	40.5
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 3 deg closely to medium locally widely spaced planar smooth closed 2 75 90 deg medium locally widely spaced planar locally undulating smooth closed SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	41.0 41.5 42.0
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 10 deg medium locally widely spaced planar locally undulating smooth closed SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	42.5 43.0 43.5 44.0 44.5
					44.69	-42.36			

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Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 10 deg medium locally widely spaced planar locally undulating smooth closed SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	45.5
					47.65	-45.32		Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 70 89 deg medium locally very closely spaced planar locally undulating smooth closed SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	47.5
									46.0
									46.5
									47.0
									48.0
									48.5
									49.0
									49.5

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Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
					50.35	-48.02		Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 70 89 deg medium locally very closely spaced planar locally undulating smooth closed SEAFORD CHALK FORMATION HAVEN BROW BEDS Grade A2	50.5
								Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 5 deg widely locally medium spaced planar smooth closed 2 87 90 deg widely locally medium spaced planar occasionally undulating smooth closed SEAFORD CHALK FORMATION CUCKMERE BEDS Grade A2	52.5

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Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
Well	Water							Very weak medium density white CHALK with some grey trace fossils 80mm Discontinuities 1 0 5 deg widely locally medium spaced planar smooth closed 2 87 90 deg widely locally medium spaced planar occasionally undulating smooth closed SEAFORD CHALK FORMATION CUCKMERE BEDS Grade A2	55.5
					57.20	-54.87		Very weak medium density white CHALK with some grey trace fossils 90mm Discontinuities 1 70 90 deg medium to widely locally very closely spaced planar smooth closed SEAFORD CHALK FORMATION CUCKMERE BEDS Grade A3	57.0
		59.91 - 60.08	C		59.65	-57.32		Very weak to weak medium density white CHALK with some grey trace fossils 70mm Discontinuities 1 0 10 deg medium locally closely spaced planar smooth closed locally open 3mm 2 70 88 deg medium to widely spaced planar smooth closed locally open 3mm SEAFORD CHALK FORMATION CUCKMERE BEDS Grade A2	59.5

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Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		61.16 - 61.34	C					Very weak to weak medium density white CHALK with some grey trace fossils 70mm Discontinuities 1 0 10 deg medium locally closely spaced planar smooth closed locally open 3mm 2 70 88 deg medium to widely spaced planar smooth closed locally open 3mm SEAFORD CHALK FORMATION CUCKMERE BEDS Grade A2	60.5 61.0 61.5 62.0 62.5
		63.2 - 63.46	C		62.97	-60.64		Very weak to weak medium density white CHALK with some grey trace fossils 40mm and occasional grey zoophycos 65mm Discontinuities 1 0 18 deg widely locally medium spaced planar smooth closed locally open 3mm locally stained brown SEAFORD CHALK FORMATION BELLE TOUT BEDS Grade A1	63.0 63.5 64.0 64.5
		64.8 - 65.06	C						

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410


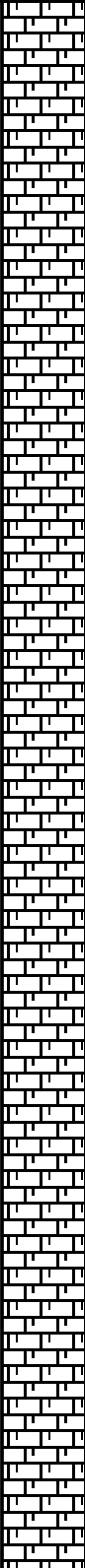
Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
								Very weak to weak medium density white CHALK with some grey trace fossils 40mm and occasional grey zoophycos 65mm Discontinuities 1 0 18 deg widely locally medium spaced planar smooth closed locally open 3mm locally stained brown SEAFORD CHALK FORMATION BELLE TOUT BEDS Grade A1	65.5
		65.86 - 66.14	C						66.0
		67.5 - 67.89	C						67.5
		67.89 - 68.08	C						68.0
		69.27 - 69.55	C						69.5

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410


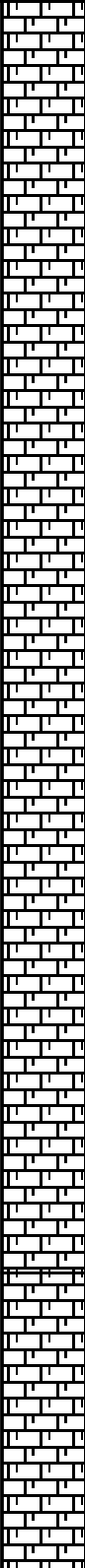
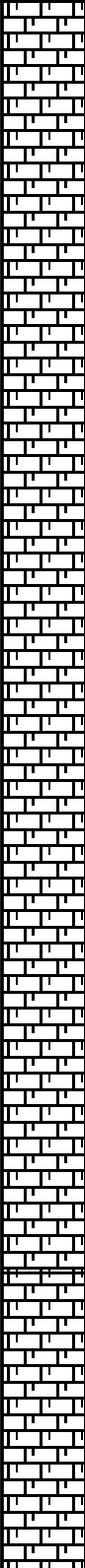
Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		70.62 - 70.85	C					Very weak to weak medium density white CHALK with some grey trace fossils 40mm and occasional grey zoophycos 65mm Discontinuities 1 0 18 deg widely locally medium spaced planar smooth closed locally open 3mm locally stained brown SEAFORD CHALK FORMATION BELLE TOUT BEDS Grade A1	70.5
								71.0	
									71.5
		73.58 - 73.9	C		74.04	-71.71		Very weak to weak medium density white CHALK with some grey trace fossils 50mm and occasional grey zoophycos 95mm Discontinuities 1 0 6 deg widely to very widely locally medium spaced planar smooth closed LEWES CHALK FORMATION Grade A1	73.0
								73.5	
		74.3 - 74.56	C					74.0	
									74.5

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Project Name: LTT - Thames Tunnel - NESR to Beckton Project No: F15410

Borehole ID: SR1016A

Location: Co-ords (British National Grid): 539223.51 - 178668.68 Level: 2.33

Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
								Very weak to weak medium density white CHALK with some grey trace fossils 50mm and occasional grey zoophycos 95mm Discontinuities 1 0 6 deg widely to very widely locally medium spaced planar smooth closed LEWES CHALK FORMATION Grade A1	75.5
		76.24 - 76.48	C				76.0		
		77.55 - 77.71	C				77.5		
		79.86 - 80.18	C				79.5		

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Hole Type: IP+CP+RC Logged By: Dates: 2009-03-30 - 2009-04-23

Client: Thames Water Utilities Ltd Contractor: Norwest Holst Limited - Soil Engineering Division Project Engineer: Thames Water Utilities Ltd

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		80.4 - 80.58	C					Very weak to weak medium density white CHALK with some grey trace fossils 50mm and occasional grey zoophycos 95mm Discontinuities 1 0 6 deg widely to very widely locally medium spaced planar smooth closed LEWES CHALK FORMATION Grade A1	80.5 81.0 81.5 82.0 82.5 83.0 83.5 84.0 84.5
					85.00	-82.67			

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GENERAL REMARKS

1. Service inspection pit hand excavated from 0.00m to 1.20m. 2. Magnetometer survey carried out from 1.20m to 13.00m with stainless steel casings, casings removed upon completion of survey. 3. No samples taken from 0.00m to 10.00m for engineers description refer to SR1016. 4. Cable Percussive boring complete at 25.00m. 5. Rotary Coring complete at 85.00m. 6. Downhole geophysics carried out on completion of coring. 7. Packer permeability testing carried out at 80.00m, 75.00m, 72.00m, 69.00m and 63.00m. 8. 50mm diameter standpipe installed, slotted from 64.00m to 74.00m. 9. For detailed discontinuity information refer to discontinuity log.

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 539203,178831



LEGEND

London Bomb Risk



- | | | | |
|-----------|-----------------|-------------------|-------|
| military | industry | UXO find | Other |
| transport | dock | Luftwaffe targets | |
| utilities | abandoned bombs | Bombing decoy | |

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

Relative UXB risk across London

The relative risk for the London area is established by plotting the recorded bombing densities.

These are represented as counts of high explosive bombs in km2 area. The areas coloured green represent a record of less than 10 bombs per km2.

Compared to other areas of the UK, this still represents a significant density. However, this is much lower than parts of Central London, where the red colouration indicates in excess of 150 bombs falling per km2, representing a very significant bombing density.

What do I do if my site is in a moderate or high density area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites with a moderate or high bombing density.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**
email: **uxo@zetica.com**
web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Appendix 4 Risk Classification Matrix

Risk Classification Matrix (C552 CIRIA, 2001)

Classification of Consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution (note; Water Resources Act contains no scope for considering significant pollution) of sensitive water resource. Catastrophic damage to building/property. A short term risk to a particular ecosystem, or organism forming part of such ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Medium	Chronic damage to human health ('significant harm', as defined in DETR, 2000). Pollution of sensitive water resources (note; Water Resources Act contains no scope for considering significant pollution). A significant change in a particular ecosystem, or an organism forming part of such an ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm', as defined in DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as persona protective clothing etc). Easily repairable effects of damage to buildings, structures and services.

Classification of Probability

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a 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 Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period that such an event would take place, and is even less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Classification of Probability

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

Appendix 5 References and Guidance

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¹ This document has been withdrawn but is considered to remain useful in providing technical background for designing ground investigation works.

² This document has been withdrawn but is considered to remain useful in providing technical background for designing ground investigation works.

Appendix 6 Disclaimer

This report has been prepared by Milvum Engineer Services in its professional capacity as soil and groundwater specialists, with reasonable skill, care and diligence within the agreed scope and terms of contract and taking account of the manpower and resources devoted to it by agreement with its client, and is provided by Milvum Engineering Services solely for the use of its client and for reference by the Royal Borough of Greenwich.

The advice and opinions in this report should be read and relied on only in the context of the report as a whole, taking account of the terms of reference agreed with the client. The findings are based on the information made available to Milvum Engineering Services at the date of the report (and will have been assumed to be correct) and on current UK standards, codes, technology and practices as at that time. They do not purport to include any manner of legal advice or opinion. New information or changes in conditions and regulatory requirements may occur in future, which will change the conclusions presented here.

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