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PROJECT NAME

Colin Campbell Court

REPORT

GEO-ENVIRONMENTAL DESK STUDY REPORT (GDS)

CLIENT

University Hospitals Plymouth NHS Trust

REFERENCE NO

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1 INTRODUCTION

1.1 Commission

Red Rock Geoscience Ltd ('Red Rock') was commissioned by University Hospitals Plymouth NHS Trust to undertake a Phase I Desk Study investigation for the Colin Campbell Court site located in Plymouth.

1.2 Development Proposals

The development proposals comprise the construction of a new NHS Community Diagnostic Centre to be located along the western boundary of the site, and comprising imaging, audiology, and physiological measurement facilities. A temporary CT facility is also proposed for the north-eastern corner of the site.

The development is therefore a commercial scheme which will be assessed in a Commercial & Industrial Land Use to cater for the most sensitive land use proposed.

The development proposals are enclosed in Appendix A.

1.3 Objectives

The geo-environmental objectives of this assessment were to identify the site's historical land use, potential resulting contamination, and associated risks, prior to more detailed intrusive investigations and determination of possible remediation requirements in order to enable the safe development of the site.

This report comprises a desk study in general accordance with model procedures Environment Agency (2019)[1] and publication R&D66[2]. The desk study includes a conceptual model of the site which is intended for identification of specific areas where there could be the potential for ground contamination or geotechnical concerns.

It should be noted that this investigation is focused towards the proposed developments at the site and may need to be re-assessed should the development proposals be revised.

This assessment has been undertaken based on desk study findings of publicly available information on the geological and geo-environmental aspects of the site. Information from the Groundsure Report (enclosed in Appendix B was utilised in the preparation of the desk study sections of this report.

Information from previous investigations or visits to the site and surrounding area was reviewed whenever available and if relevant. However, Red Rock did undertake a site walkover as part of this commission.

Environmental regulators use the Source-Pathway-Receptor (SPR) pollution linkage concept when assessing the risk posed by a contaminated site. For a liability to arise, each stage of the pollution linkage must be present. The desk study details the historical and current site uses and establishes the environmental sensitivity of the site thus allowing a preliminary conceptual site model identifying potential contaminant sources, migration pathways, and possible receptors to be developed. An assessment of pollutant linkages based on the findings of the desk study is also presented.

It should be noted that references to the word 'contamination' in this report do not relate to the statutory definition of Part IIA Contaminated Land (amended in 2000) in accordance with the Department of the Environment, Transport and the Regions[3]. In the context of this report a wider term is used to cover all cases

1 Environment Agency, 2019. Land Contamination: Risk Management (LCRM).
2 NHBC, Environment Agency & Chartered Institute of Environmental Health, 2008, R&D Publication 66 - Guidance for the Safe Development of Housing on Land Affected by Contamination.
3 Department of the Environment, Transport & the Regions, 2000, Environmental Protection Act 1990: Part IIA.

where the actual or suspected presence of substances in, on or under the land may cause risks to people, property, human activities or the environment, regardless of whether or not the land meets the current statutory definition of Part IIA.

Reference should be made to the 'General Notes and Limitations' included in Appendix E at the end of this report, which provide information on the procedures followed in the investigation and data assessment and explains the context within which this report should be read.

The current report was developed on the basis of the various current publications by UK policy makers, in particular the NHBC Standards[4] and model procedures by DEFRA[5].

The geo-environmental sections of this report only address potential ground contamination issues and do not include issues pertaining to ecology, habitat, flood risk, or wider environmental concerns. Appropriate professionals with expertise in these areas should be consulted.

The Groundsure Report data used as a basis for the desk study sections of this report is provided as a bespoke search of public records and is only relevant to land quality, including geological, geotechnical, and geo-environmental data. The report is the legal property of the client and as such it may be used by any third party at the discretion of the client with the understanding that it may not include publicly available data outside the scope of its initial commission. 3rd parties utilising the data for any purposes other than land quality should satisfy themselves that the data is complete and relevant to their purposes. Red Rock Geoscience Ltd can accept no liability for the use of the Groundsure Report data for any other purposes than the initial Phase 1 Desk Study review.

4 NHBC, 2019, Standards.

5 https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks, based on Environment Agency, 2016, Model procedures for the management of land contamination. Contaminated Land Report 11.

2 DESK STUDY

2.1 Site Description and Site Walkover

The site is located Northeast of Union Street and Western Approach junction, Plymouth, and currently consists of an active car park (The Colin Campbell Court Car Park) that is bounded by residential and commercial buildings. The site is centred on National Grid Reference 247374E, 054511N.

The site is irregular in shape, occupies approximately 0.77 ha. Topographically the site is generally flat. Bounded North and East to the site are residential and commercial premises, to the West is Western Approach, and Union Street to the South. This site is approximately 0.57km South and South-west of the River Tamar Estuary.

The site walkover that was undertaken highlighted the presence of water drains, electric services, potential buried services, and historic monitoring wells. No visual or olfactory evidence of significant contamination was noted during the walkover survey. However, there were demolition stockpiles from the previous commercial buildings on the western part of the site and site work ongoing on the eastern part of the site that may give rise to contamination on site.

Information, observations, and photographs taken during the walkover survey are included in as Appendix B

2.2 Potentially Contaminative Land Use

Assessment of Historical Mapping

The site history has been assessed using various Ordnance Survey historical maps from source scales 1:2,500, 1:10,000, and 1:10,560 enclosed in Appendix B.

The earliest map reviewed was from 1855 – 1856, which shows the site already developed with residential buildings. However, the survey shows the area as being a mix between industrial and residential uses as indicated by the South Devon Railway and timber yards located West to the site.

In 1895 the historic surveys show the timber yard and the residential area bounded by Devonshire Lane and Summerland Place to have been demolished and converted into a new school and residential buildings. Therefore, the site has developed from residential to a mix between commercial and residential. The South Devon Railway to the West remains but has been further developed and extended North. To the South a new tramway was constructed along Union Street. By 1914 a building labelled “Public House” replaced a residential building onsite.

Between 1950 – 1951 the school and the residential buildings adjacent to the school (West) were demolished and replaced by four buildings onsite. Adjacent to the Site (East) the residential buildings have been demolished and new garages built. South to the site most residential buildings have been demolished. Major roads (Derry’s Cross, Raleigh Street) connecting to Union Street have been developed and replaced the tramway South to the site. Therefore overall, the site has changed between mixed commercial and residential to almost purely residential purposes. The area surrounding the site is mixed between commercial and residential.

By 1959, all buildings onsite have been demolished and converted into seven buildings to the West with the remaining site converted as a car park. To the East and Northeast to the site more residential, retail, and commercial buildings (including large buildings labelled “Market” and “Oden Cinema”) have been developed. To the West adjacent to the South Devon Railway and the Site, Western Approach was partly developed.

By 1964 Western Approach was extended and fully developed. In addition, by 1964 Campbell Court with residential and retail buildings were developed adjacent (North) to the site. To the South the area has been fully developed into retail and commercial buildings. Therefore, the historical surveys are showing that the site and the surrounding area have developed more into commercial and retail uses.

Between 1978-1982 Millbay Station and South Devon Railway were demolished and developed into major car parks. However, by 1992 the major car park West to the site had developed into 2 multistorey cark parks and a building labelled "Store". The major carpark to the South has been developed into Plymouth Pavilions. By 2003 the historical maps show the site and the surrounding area fully developed into a mix between commercial, retail, and residential uses.

Trade Entries, Permits and Discharges

An assessment of potential trade entries, permits, and discharges with contaminative land use implications for the site was undertaken based on the information contained within the Groundsure Report, the topography of the area, and the nature of any potential contaminative land use identified. The assessment is summarised in the following table.

Table 2.2: Trade Entries, Permits and Discharges

Industrial Sites	
Tanks	No tanks identified onsite. 4 historic tanks have been recorded within 250m and 16 historic tanks have been recorded within 500m.
Energy	No energy features (gasworks, electrical sub-stations, etc.) onsite. 2 historic electrical sub-stations have been recorded within 50m and 24 historical electrical sub-stations have been recorded within 500m
Fuel Storage/ Motor Services	3 historic garages have been identified onsite. 25 historic garages have been recorded within 250m and 52 historic garages have been recorded within 500m. 3 current petrol stations have been identified with 500m.
Trade Entries	5 historic trade entries were recorded within 50m, and 72 historic trade entries recorded within 500m. 26 recent trade entries were recorded within 250m
Military Sites	No military sites or activities at locations likely to have impacted the site.
Permits, Incidents, and Registers	
Contaminated Land Part IIA	None identified at locations likely to have impacted the site.
Pollution Prevention and Control Sites	None identified at locations likely to have impacted the site.
Discharge Consents	None identified at locations likely to have impacted the site.
Registered Radioactive Substances	None identified onsite and 1 radioactive waste was recorded 467m from site location and 5 radioactive substance authorisations have been recorded.
Sites Storing Hazardous Substances	None identified at locations likely to have impacted the site.

Table 2.2: Trade Entries, Permits and Discharges	
Environment Agency Recorded Pollution Incidents	None identified onsite and 1 incident was recorded 288m from site location.
Waste & Infilled Land	
Waste Management	No waste management license on the site. 2 licenses for pollution release were recorded 500m to the site. 112 waste exemptions were recorded on site. 2 waste exemptions within 50m, 11 waste exemptions within 250m, and 33 waste exemptions within 500m.
Potentially infilled land	The Groundsure report identifies no potential infilled land at locations that are likely to have impacted to the site.

2.3 Geological Setting

Geology

Published geological information was obtained from the British Geological Survey and from the Groundsure Report information.

Table 2.3: Geology	
Solid Geology	The solid geology beneath the site comprises the slate and siltstones of the Saltash Formation and mudstone and siltstone of the Torpoint Formation of Devonian geological age. Very low to negligible shrink swells clays and running sands have been recorded onsite.
Superficial Geology	Superficial geology deposits are recorded on site and consist of clay, silt, sand and gravel (alluvium).
Linear Features	Published geological information shows the area extensively fractured, with 3 fault lines recorded on site and a further 16 fault lines recorded within 500m to the site.
Artificial Ground (i.e., disturbed ground, landslips)	A large area of made ground is marked across and adjacent to the site, overlying the Saltash Formation, Torpoint Formation, and Plymouth Limestone Formation. Groundsure report has identified worked grounds 277m and 494m from the site locations due to infilling of voids or pits.

Natural Subsidence Hazards

Information on subsidence hazards for the site obtained from the Groundsure Report indicates that the site is of generally negligible risk with regards to subsidence hazards. However, this information is based on large scale mapping and, consequently, a low level of detail is achieved with regard to the assessment of potential for subsidence hazards.

Mining & Quarrying

Mining and quarrying information was obtained from the Groundsure Report.

Table 2.4: Mining & Quarrying	
Metalliferous Mining & Mining Cavities	No mines or mining cavities identified within 20m of the site.

Table 2.4: Mining & Quarrying	
Coal Mining	None identified on the site or surrounding area.
Natural Cavities	None identified on the site or surrounding area.
Quarrying	None identified on the site or surrounding area.

Estimated Topsoil Geochemistry

The estimated soil geochemistry is based on the National Soil Chemistry dataset maps geometric mean ambient background concentrations (ABCs) for PHEs in rural topsoils. These classifications are created by mapping British Geological Survey (BGS) rural soil chemistry data within delineations of parent material (bedrock and superficial geology). This allows the estimation of soil / sediment concentrations of potentially harmful chemical elements (PHEs) which include arsenic (As), cadmium (Cd), chromium (Cr), nickel (Ni), and lead (Pb). The PHE concentrations are based on local averages for each geological unit.

The following table shows a comparison between the current guideline values applicable to the development proposals and the BGS estimated background concentrations in topsoils of natural origin.

Table 2.5: Potentially Harmful Chemical Elements (PHEs) in Topsoil

PHE	BGS Estimated Concentrations	Land Use & Guidelines	Comments
Arsenic	Up to 45 mg/kg	Commercial & Industrial Land Use: Arsenic (640.0mg/kg), Cadmium (230.0mg/kg), Chromium (total 8,600.0mg/kg), nickel (980.0mg/kg), and lead (6,000.0mg/kg)	Below guideline value
Cadmium	1.8 mg/kg		Below guideline value
Chromium	Up to 120 mg/kg		Below guideline value
Nickel	Up to 45 mg/kg		Below guideline value
Lead	Up to 300 mg/kg		Below guideline value

Geochemical data for the area as estimated and researched by the British Geological Survey suggests that estimated background concentrations of arsenic, cadmium, chromium, nickel, and lead in topsoils of natural origin are likely to be below the current guideline values for Commercial & Industrial Land Use.

The estimated soil geochemistry maps are included in the Groundsure Report in Appendix B.

2.4 Previous Investigations

John Grimes Partnership (JGP) undertook an intrusive investigation in July 2021 (Report Ref: 17070/GI/R2), where they undertook several rotary cored borehole and trial pits, which provides geotechnical parameters and recommendations to inform site development, as well as considerations for contaminated land.

Red Rock additionally undertook an intrusive investigation, gas monitoring, and groundwater monitoring in December 2021 (Report Ref: RP7674) where we undertook several rotary core boreholes, trial pits, hand excavation trial pits which provided geotechnical parameters and recommendations to inform site development, as well as consideration for contaminated land.

Both the Red Rock and the JGP investigations were undertaken prior to the demolition of the existing buildings and targeted the Colin Campbell Court car park.

Relevant contents of the previous Red Rock reports are summarized below with comments by Red Rock:

- Ground conditions in exploratory holes generally consisted of Made Ground, overlying Alluvium and Residual Soil from the previous Red Rock report. However, reports from JGP exploratory holes generally consisted of concrete or Macadam hard standing over two types of Made Ground, overlying Alluvium, and extremely weak mudstone.
- Groundwater was encountered between 3.30 and 3.95m below ground level. However, the depth to groundwater (and presence of perched groundwater) can vary both spatially across the site and in response to seasonal fluctuations, and it is recommended that groundwater control be undertaken in accordance with the guidance given in CIRIA Report C515 (2000)15.
- Geo-environmental testing indicated that all metal concentrations are below their corresponding guideline values for commercial and industrial land use. PAH's and TPH's identified within site soils are also not considered to pose a significant risk to human health for the proposed commercial land use.
- Presence of extensive Made Ground, and the PAH and localised TPH results from the Red Rock report recommends that barrier pipes are utilised for the development.
- Three (3no.) samples of the soils from the Red Rock's investigation were screened for asbestos containing materials (ACMs) and associated fibres. Asbestos was not detected in any of the Red Rock samples screened and ACMs were not observed in the soils during Red Rock's investigation. However, JGP were encountered Asbestos fibres in two of the exploratory holes. However, there was no evidence of any asbestos materials noted in the exploratory holes. These fibres were quantified producing results of 0.001% and 0.002%.
- Due to the presence of the Made Ground and potential size of the structures, piled Foundations were recommended (rock sockets) by both reports.
- Suspended floor slabs were recommended by both reports due to the Made Ground then a piled floor slab could be considered or some form of ground improvement (which would be difficult given the local constraints) to enable a ground bearing floor slab.
- JGP Sulphate Testing on seven Buried Concrete samples indicate that in accordance with BRE Special Digest 1 (SD1) 2005 'Concrete in Aggressive Ground', the Design Sulphate Class for the different strata varies from DS-1 AC-1) to DS-2 (AC-2). However, Red Rock's investigation laboratory testing highlighted within the alluvium sample there was oxidizable sulphate present. In the unlikely event that this material is brought to surface (as pile or excavation arisings), any concrete in contact with this material should be designed in accordance with design sulphate class DS-4 ACEC class of AC-3 of BRE Special Digest 1 (2005).

2.5 Ground Gas

The CIRIA 665[6] Publication identifies the most likely sources of ground gas which are varied and are assessed below in view of the conditions of the subject site.

Table 2.6: Ground Gas Potential

Radon Gas Radon is a gas derived from the natural degradation of uranium-containing rocks. Long-distance migration tends to occur through fissures / fractures within bedrock geological materials.	The site is located within an area where less than 1% of properties are above the action level, and no radon protective measures are required.

[6] CIRIA C665, 2007, Assessing risks posed by hazardous ground gases to buildings.

Table 2.6: Ground Gas Potential	
Waste Sites (Landfills etc) The biodegradation of organic materials contained within the landfill waste include methane, carbon dioxide, and traces such as VOCs, hydrogen sulphide and carbon monoxide.	No potential source identified within 250m of the site.
Burial Grounds Gases typically generated from corpse decomposition are predominantly carbon dioxide and methane and trace gas especially if the burial ground is in waterlogged or moist / damp conditions. The distance to which gas migrates depends on the ground conditions. Long-distance migration tends to occur through fissures / fractures within consolidated geological materials while unconsolidated deposits tend to encourage short-distance migration.	No potential source identified within 250m of the site.
Made Ground Made Ground containing degradable material such as wood, paper, rags and vegetation with ash, clinker, brick, and concrete fragments etc., could potentially be a source of ground gas. The potential for gas generation from Made Ground materials tend to be low although there is a potential for small but sustained volumes of gas. Where the Made Ground contains elevated concentrations of carbon-rich materials, there is a potential for the ground gas (i.e., methane, carbon dioxide, etc.) to be higher.	A large area of made ground deposits is marked to the West of the site. This relates to the re-profiling of ground levels prior to re-development. This area is not listed as a landfill and earthworks of this kind require the use of inert materials suitable for building construction and are not likely to be a source of significant ground gas.
Spills, Leaks and Discharges Spillages or leakages of petroleum hydrocarbons from vehicles, machinery, and trams can give rise to contaminated soils but also their associated volatile components may cause hydrocarbon vapour emissions. Hydrocarbons in the ground at elevated concentrations can also be highly flammable.	No potential source identified within 250m of the site.
Organic-Rich Deposits (Alluvium, peat / coal, marshland, or tidal areas) Methane from these sources is produced by microbial decay of the organic content under anaerobic conditions (i.e., waterlogged vegetation). Carbon dioxide is the result of acid reaction on the carbonate fraction of alluvial soils and also by methane oxidation. Potential trace gases include hydrogen sulphide and light hydrocarbons.	No potential source identified within 250m of the site.
Ground Gas Assessment Required?	No radon protection required. Further ground gas assessment is not required.

2.6 Groundwater and Surface Water Setting

Groundwater and Surface Water Receptors

An assessment of the groundwater vulnerability and presence of potential critical receptors with respect to the water resources was undertaken based on the Groundsure Report information and historical maps.

Table 2.7: Groundwater and Surface Water Receptors	
Water Features	No surface water features (rivers, streams, or ponds) on the site or immediate vicinity listed in the Groundsure report. The site is within the River Plym's catchment Area and more widely within the Tamar groundwater catchment area.
Superficial (Drift) Permeable loose deposits (i.e., sands and gravels)	Secondary A Aquifer (previously Minor Aquifer) comprising geology with permeable layers capable of supporting water supplies at a local scale, possibly forming an important source of base flow to rivers.
Bedrock Solid permeable formations (i.e., sandstone, chalk and limestone)	Secondary A Aquifer (previously Minor Aquifer) comprising geology with permeable layers capable of supporting water supplies at a local scale, possibly forming an important source of base flow to rivers.
Industrial / Agricultural Water Abstractions	None identified at locations likely to be impacted by activities on the site.
Potable (Drinking) Water Abstractions	None identified at locations likely to be impacted by activities on the site.
Groundwater Protection Zones	None identified at locations likely to be impacted by activities on the site.

Surface and Groundwater Flows

Topographically the site and the surrounding area are generally flat.

Surface water flows are likely to largely mimic the topographical gradients, and flow to foul or stormwater sewer. Groundwater flows are dependent on the fracturing and porosity of the geology underneath the site but generally are likely to flow Southwest towards the Plymouth Sound.

2.7 Protected Sensitive Land Use

The site is not within a protected sensitive land use. The nearest sensitive areas are the Plymouth Sound (over 1km away) where some areas are classified by natural England as Sites of Special Scientific Interest (SSSI) and Special Areas of Conservation.

2.8 Unexploded Ordnance (UXO)

A preliminary unexploded ordnance risk assessment for the area was undertaken to check the potential for UXO to be present as a result of World War Two (WWII) bombing. The preliminary risk assessment indicates that the UXO potential of the site is high and previous intrusive investigations on the site required UXO supervision.

The UXO risk assessment is enclosed in Appendix C.

3 CONCEPTUAL MODEL

3.1 Introduction

Environmental regulators use the 'Source-Pathway-Receptor (SPR) pollution linkage' concept when assessing the risk posed by a contaminated site. For a liability or risk to arise each stage of the pollution linkage must be present.

The following Conceptual Site Model (CSM) is based on the findings of the desk study research detailed above. The CSM identifies potential contaminant sources at the site, the possible pathways for these contaminants to leave the site, and the human and environmental receptors in the vicinity of the site.

The main functions of the CSM are to establish the nature and potential impact of any ground contamination present, to provide a tool for assessing risk by identifying where a complete pollution linkage is present and, where necessary, to provide a basis for planning effective targeted investigations.

3.2 Potential Contamination Sources

The following was noted as potential contaminative sources:

- The site is likely underlain by a layer of Made Ground of unknown origin which could be a source of elevated metals and hydrocarbons, as well as unanticipated contamination as a result of inappropriate storage, management, or disposal of waste on site, including those associated with historical informal rubbish tips. No soft landscaping is proposed.
- Active and historical electrical sub-stations, garages, tanks are shown to have been present either onsite or near site location. Polychlorinated Biphenyls (PCBs) were used as coolants in electric sub-stations, but this practice was banned in the 1980s (Department of Environment, 1996). However, PCBs are dense non-aqueous phase liquids (DNAPLS) and so are not readily transported by groundwater and instead sink through the groundwater column. Therefore, the risk of PCBs being present on the site is considered to be very low. Historic railway station, timber yards were present West to the site. In particular the site is adjacent to a number of historical garage locations which could have been a source of metals and hydrocarbons due to storage of fuel and oils. These potential contamination sources were additionally noted in previous investigations.
- Previous investigations (see Section 2.4) have identified the presence of coal tar within bands of tarmac that has been deemed hazardous. It should be note that coal tar containing tarmac have implications with regards to off-site disposals, tarmac can remain on site under proposed communal parking or pavements away from residential buildings. It is however worth noting that coal tar does usually have a strong odour, and should not, therefore, be re-used beneath buildings.
- Several historical industrial land uses were and still noted within 250m of the site. Contaminants from these sources may include metals, metalloids, PAHs and TPHs.

3.3 Potential Critical Receptors & Pathways

In view of the proposals, the site is being considered within a Commercial & Industrial Land Use which considers the following critical receptors.

Table 3.1: Critical Receptors & Pathways

Critical Receptors		Pathways
Human Receptors	Future Site Residents and / or Users Site Workers Neighbours	Commercial & Industrial Land Use: Ingestion, dermal contact and inhalation of contaminated soils, dust, water, and gas
Fauna & Flora	On-site Fauna and Flora Off-site Fauna and Flora	Contaminant uptake and ingestion of contaminated plants and water
Water Resources	Nearby streams and surface water bodies Groundwater table / Aquifer Water abstractions	Leakages of contaminated drains and contaminant migration through the soils into surface water, groundwater, or water abstractions
Future Built Environment	Damage to concrete structures and pipework by potential aggressive substances within the groundwater and soils	Damage to physical integrity of future built structures

3.4 Risk Assessment of Pollutant Linkages

A number of exposure pathways link the contamination to the receptor and potential risks are dependent on active pathways. The qualitative assessment of potential pollutant linkages based on the desk study information involves the matching of the identified sources of contamination to the receptors through the possible migration pathways according to the table of risk phrases and matrices enclosed in Appendix D. These links must be completed for there to be any risk associated with the site and its development.

This assessment is presented in terms of the Source (S), Pathway (P) and Receptor (R) concept and applies a qualitative value judgement to this appraisal. The assessment assigns a level of risk to each SPR link based on the probability and potential consequence of the risk being realised. Table 3.2 summarises the risk assessment for the site.

Table 3.2: Geo-Environmental Risk Assessment

Receptors	Contaminant Sources	Probability of Pollutant Linkage Being Present	Severity of Consequence if Contaminant and Pollutant Linkage Present	Risk Assessment	Recommendations
Human Health	Coal Tar present in an isolated band of tarmac. No other elevations above commercial land use guidelines.	2 - UNLIKELY (Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term)	4 - MEDIUM (Chronic human health effects)	VERY LOW RISK (Probability x Severity = 6 to 9)	The risk has been classified as NEGLIGIBLE or VERY LOW. Contamination unlikely and further assessment not required. Personal protective equipment during all site works recommended as good practice.
	Asbestos: Maximum 0.002% of Asbestos fibres identified during previous investigation.	2 - UNLIKELY (Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term)	5 - SEVERE (Acute or fatal human health effects)	LOW RISK (Probability x Severity = 10 to 12)	Asbestos not identified at concentrations likely to pose a risk to Human Health. Remedial measures not required.
	Water Mains: PAHs elevated above PE thresholds	4 - LIKELY (Pollutant linkage may be present, and it is probable that there will be a long-term risk and possibly a short-term risk)	4 - MEDIUM (Chronic human health effects)	MODERATE (Probability x Severity = 15 to 16)	Barrier pipe recommended for the development

Table 3.2: Geo-Environmental Risk Assessment

Receptors	Contaminant Sources	Probability of Pollutant Linkage Being Present	Severity of Consequence if Contaminant and Pollutant Linkage Present	Risk Assessment	Recommendations
Human Health - Ground Gas	Radon: The site is within an area unlikely to be affected by radon gas.	4 - LIKELY (Pollutant linkage may be present, and it is probable that there will be a long-term risk and possibly a short-term risk)	4 - MEDIUM (Chronic human health effects)	MODERATE (Probability x Severity = 15 to 16)	Basic radon protection required.
	Additional Ground Gas Sources (excluding radon): Ground gas monitoring ongoing.	2 - UNLIKELY (Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term)	4 - MEDIUM (Chronic human health effects)	VERY LOW RISK (Probability x Severity = 6 to 9)	Potential ground gas sources (excluding radon) not identified within 250m. Further assessment not required.
Flora and Fauna	Almost no soft landscaping proposed on site.	2 - UNLIKELY (Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term)	3 - MILD (Damage to non-sensitive ecosystems or species)	NEGLIGIBLE RISK (Probability x Severity = 1 to 5)	The risk has been classified as NEGLIGIBLE or VERY LOW. Contamination with potential to affect Flora and Fauna unlikely and further assessment not required in view of the expected ground conditions and proposals.

Table 3.2: Geo-Environmental Risk Assessment

Receptors	Contaminant Sources	Probability of Pollutant Linkage Being Present	Severity of Consequence if Contaminant and Pollutant Linkage Present	Risk Assessment	Recommendations
Water Resources	High PAHs and TPHs are present associated to the localised presence of tarmac only, but not in a form likely to affect the water resources.	2 - UNLIKELY (Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term)	3 - MILD (Damage to non-sensitive controlled waters)	VERY LOW RISK (Probability x Severity = 6 to 9)	The risk has been classified as NEGLIGIBLE or VERY LOW. Contamination with potential to affect the water resources unlikely and further assessment not required in view of the expected ground conditions and proposals.
Future Built Environment	Standard metals, metalloids, and hydrocarbons ubiquitous in the urban areas and in Made Ground.	1 - NO RISK IDENTIFIED (No contaminative sources or contaminants identified likely to pose a risk to the future built environment)	3 - MILD (Minor damage buildings or structures)	NEGLIGIBLE RISK (Probability x Severity = 1 to 5)	The risk has been classified as NEGLIGIBLE or VERY LOW. Contamination with potential to affect the future built environment unlikely and further assessment not required in view of the expected ground conditions and proposals.

4 RECOMMENDATIONS

4.1 Geo-Environmental Considerations

Desk study findings indicate that the likelihood of extensive contamination on the site is low and unlikely to pose a risk to future site users in view of the expected ground conditions and the development proposals. The site is generally considered of Low risk, and an intrusive investigation and assessment is not required.

4.2 Ground Gas

The site is located within an area where less than 1% of properties are above the action level, and no radon protective measures are required. No other sources of ground gas were identified within 250m of the site.

4.3 Coal Tar

Previous investigations have identified elevated PAHs in a sample of tarmac suggestive of the presence of coal tar in the tarmac. Tarmac containing coal tar is hazardous for disposal off-site purposes but can be encapsulated and bound and re-used as cement-bound capping beneath road surfaces.

4.4 Unidentified Contamination

In additions, the following are general recommendations:

- Adequate precautions and appropriate personal hygiene and safety protocols should be employed by all construction workers on site at all times.
- Regular inspections should be carried out by ground workers during any excavation work, and advice should be sought in the event that unexpected ground conditions are encountered. Should any visual or olfactory signs of contamination be found during construction works, soils should be tested and assessed.
- Should further testing and assessment identify areas of unacceptable risk, appropriate remedial measures would need to be implemented. A detailed remediation strategy should be prepared, any remedial works and associated clean-up levels would need to be discussed with and approved by the Regulatory Authorities. Additionally, a Validation Statement would need to be prepared upon completion of any remedial works, detailing the works undertaken and the results of the associated validation testing.
    - The principal geotechnical considerations that would need to be addressed by appropriate ground investigation and design are significant thickness of Made Ground soils and the percolation characteristics of the underlying strata for soakaway design.

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Appendix A. DEVELOPMENT PROPOSALS

Proposed CCC Site Plan

1 : 200

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0 5 10 m 20 m

KEY

Existing underground Telecoms

Pedestrian access routes

Proposed Ownership boundary TBC

Proposed Planning boundary TBC

Existing underground Sewer
With 5m easement either side

Contractors to check all dimensions on drawings.

Any discrepancies must be reported to KTA Architects Ltd or the contract administrator before proceeding.

Do not scale except for planning purposes, work to figured dimensions.

A Fire Consultant must be appointed for this project. KTA drawings & schedules to be read in conjunction with the Fire Consultant Fire Strategy Report.
The Fire Strategy Report takes precedence over any KTA drawing or schedule & any discrepancy should be brought to KTA's attention

This drawing must be read in conjunction with all relevant consultants drawings.

Revision Schedule

Revision Number	Revision Date	Revision Description	Issued/ Authorised by
P1	14/09/2023	Issued for legal purposes	AM

Please note

All existing utility and services location to be confirmed by specialist consultants.

This layout is subject to further surveys, reports and other consultants input.

Winslade House, Winslade Park, Manor Drive,
Clyst St. Mary, Exeter, EX5 1FY

Tel: 01392 360338
Email: kt@kta.uk.com
Web: www.kta.uk.com

Project
Plymouth CDC
Colin Campbell Court,
Market Ave,
Plymouth,
PL1 1TZ

Title
Proposed CCC Site boundaries

Author	Chckd by	Scale	
AM	AS	1 : 200	@ A1

Project	Status
2258	S1 Suitable for coordination

Drawing number	Rev.
2258- KTA- XX- XX- D- A- 1103	P1

QMF 128 -V2.0 - 07/07/2023

Plot date:14/09/2023 12:26:28 U:\Andrew.Morris\REVIT LOCAL FILES\2258-KTA-SM-XX-M3-A-SiteModel_andrew.morris.kta.rvt

Appendix B. GROUNDSURE SURVEY DATA

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series Town Plan
Map date: **1855-1856**
Scale: 1:500
Printed at: 1:1,000

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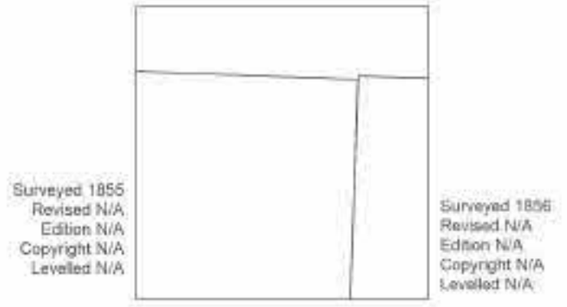

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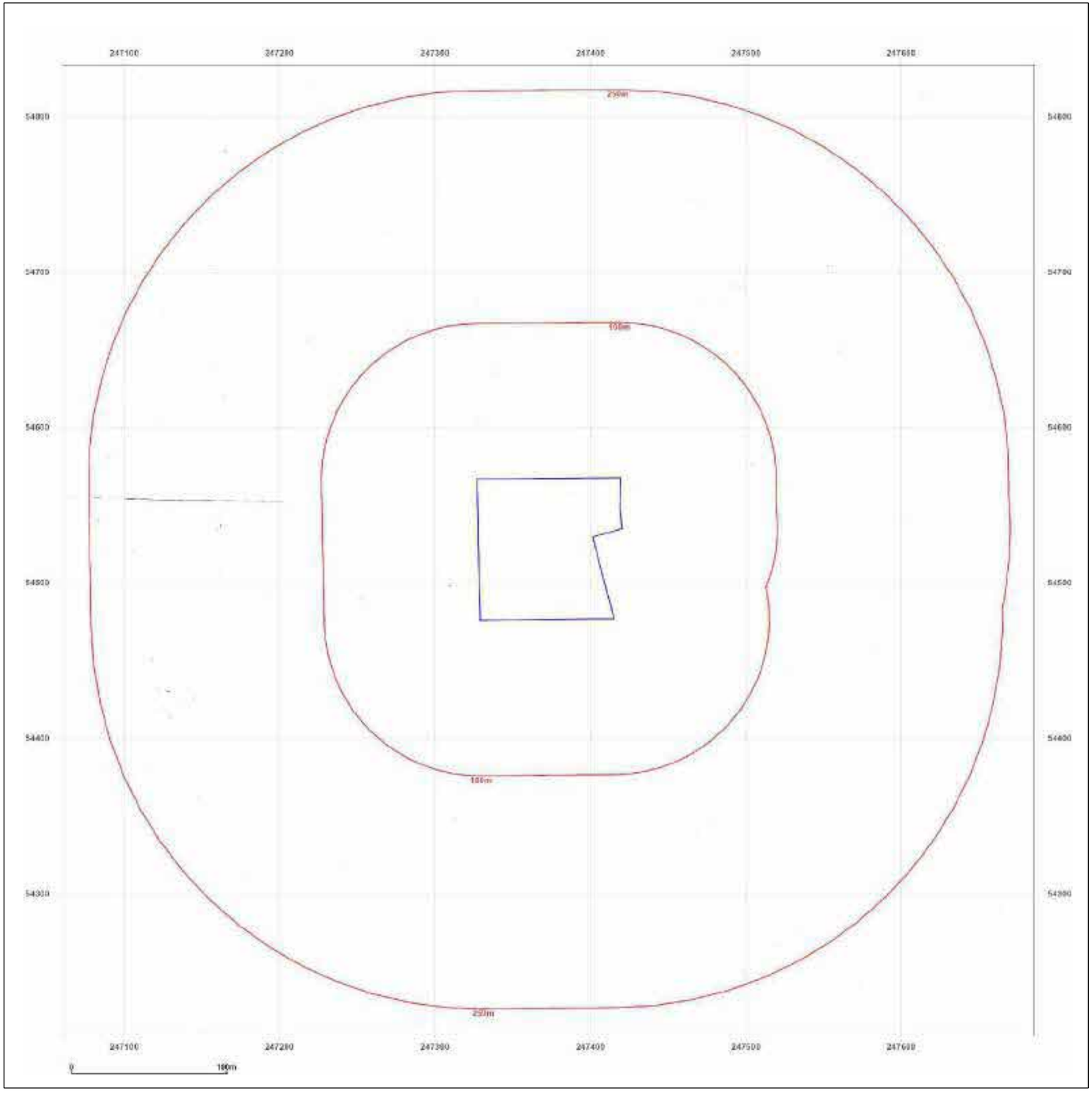
Production date: 22 September 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1866-1867**

Scale: 1:2,500

Printed at: 1:2,500

N
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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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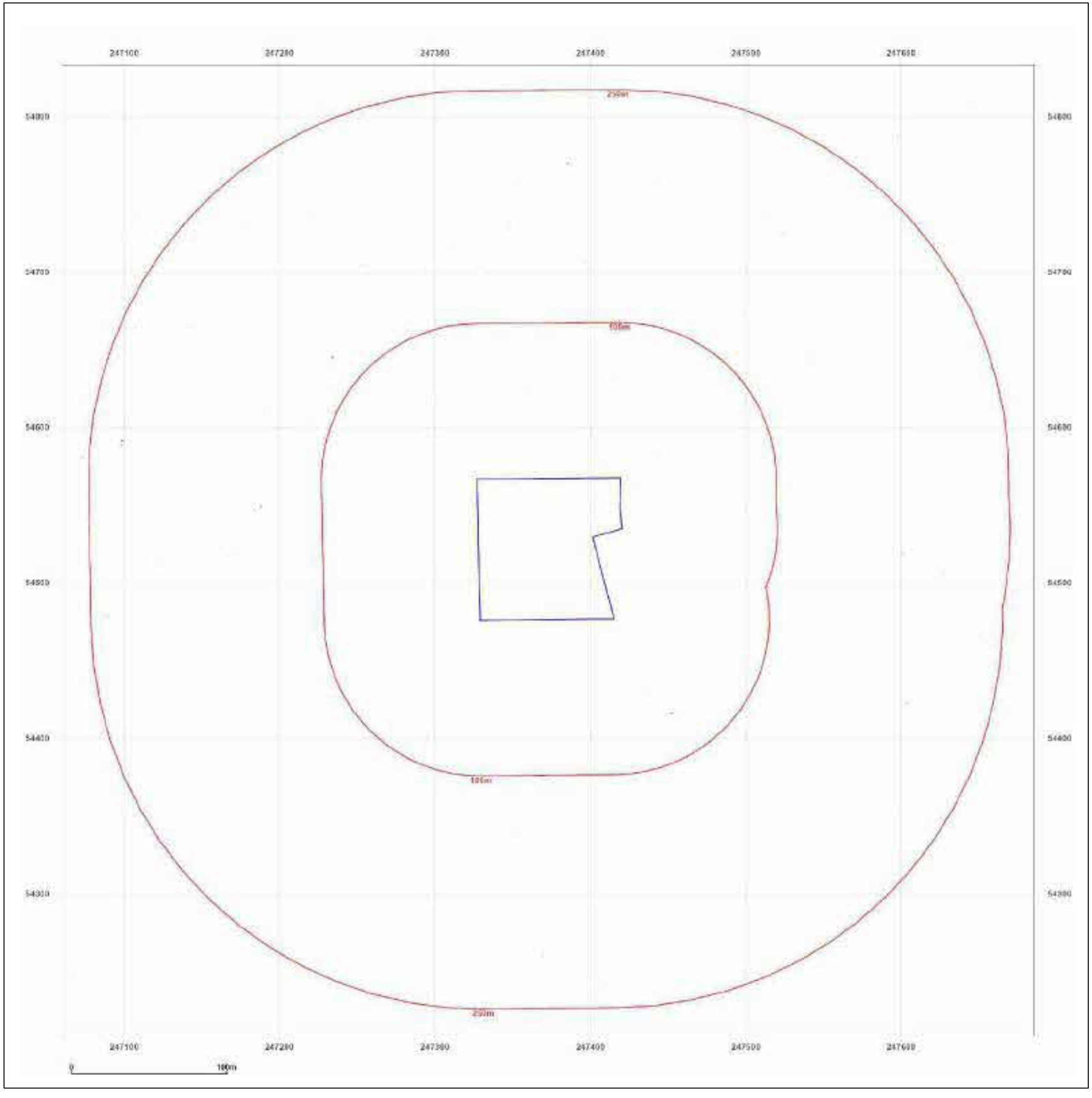

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1867**

Scale: 1:2,500

Printed at: 1:2,500

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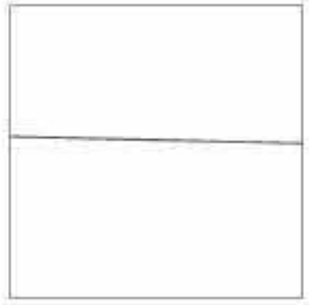
Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A



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

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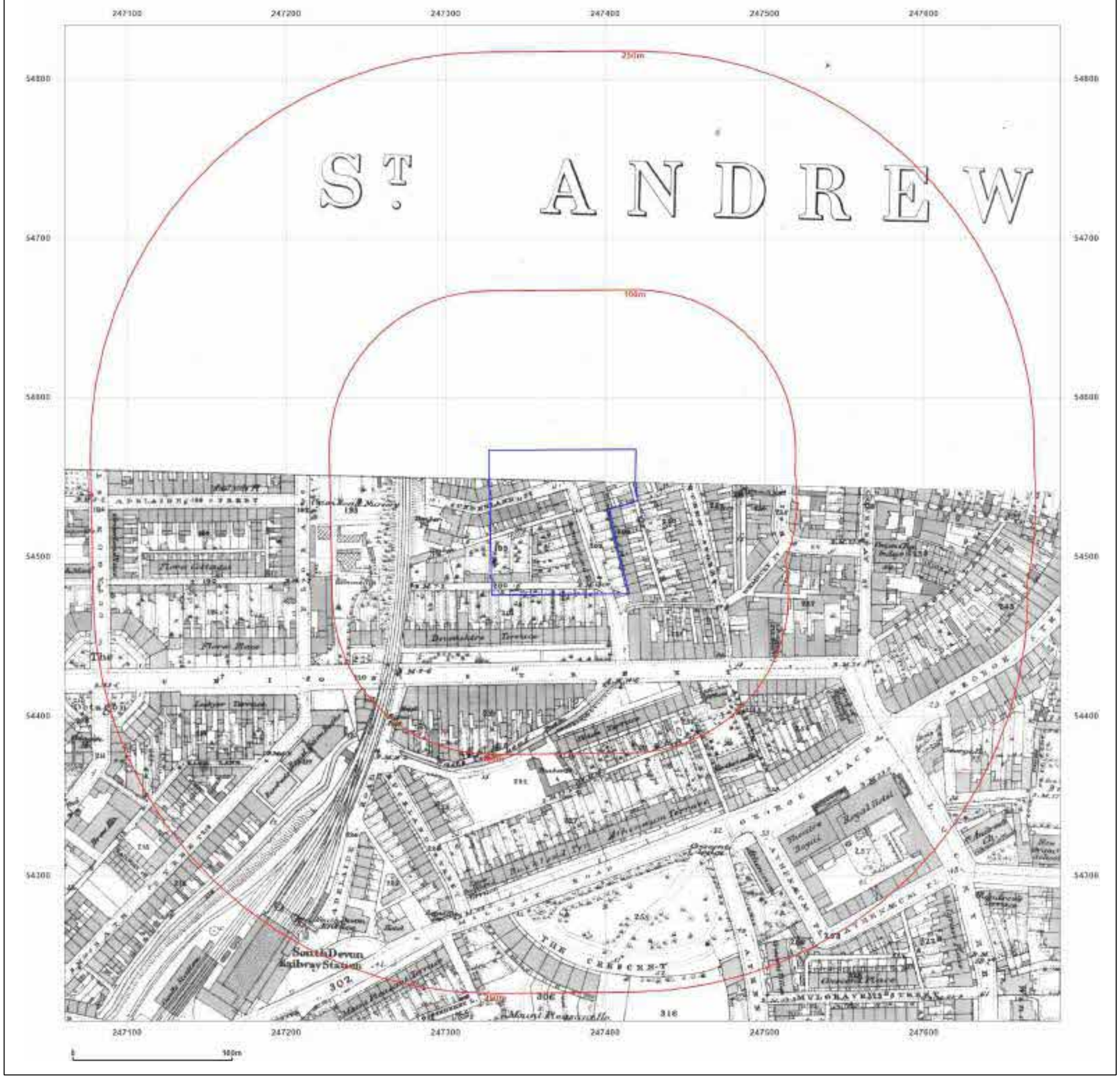

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1867-1868**

Scale: 1:2,500

Printed at: 1:2,500

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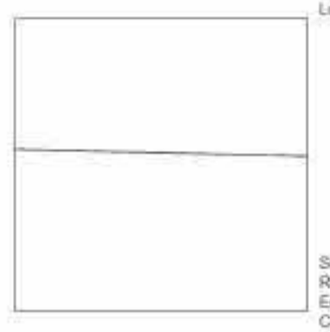

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Production date: 22 September 2023

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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1868**

Scale: 1:2,500

Printed at: 1:2,500

N
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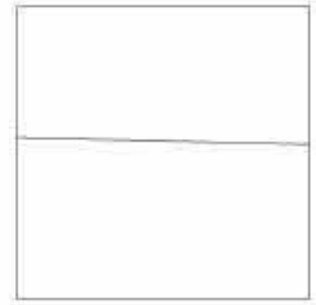
Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 22 September 2023

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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1895**

Scale: 1:2,500

Printed at: 1:2,500

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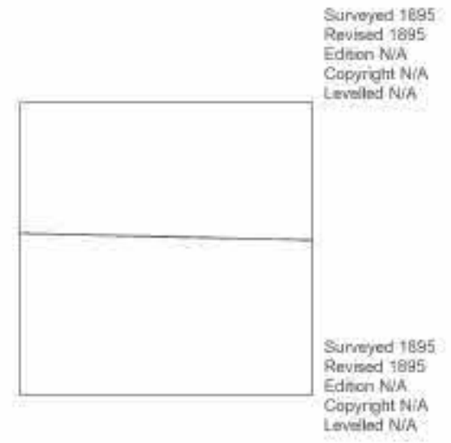

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Production date: 22 September 2023

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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series
Map date: **1895**
Scale: 1:2,500
Printed at: 1:2,500

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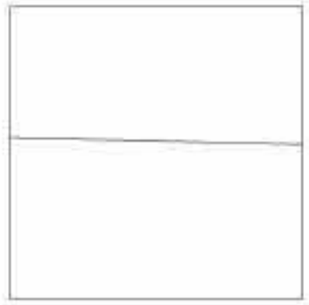
Surveyed 1895
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A



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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref:	C10120
Report Ref:	HMD-33J-ZWS-SO6-J8B
Grid Ref:	247373, 54521

Map Name:	County Series
Map date:	**1907**
Scale:	1:2,500
Printed at:	1:2,500

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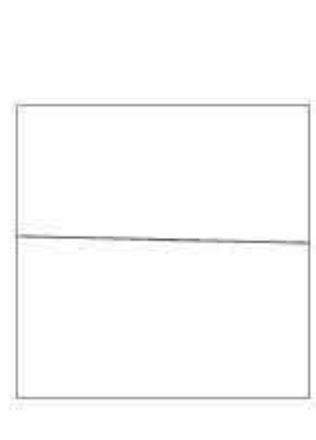

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Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1914**

Scale: 1:2,500

Printed at: 1:2,500

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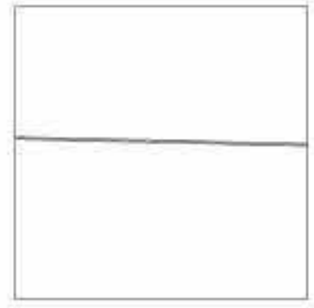
Surveyed 1914
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A



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

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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1933**

Scale: 1:2,500

Printed at: 1:2,500

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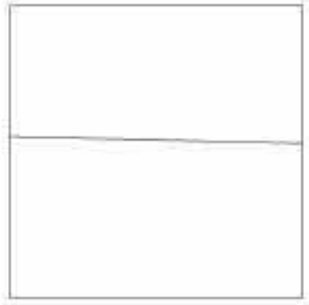
Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A



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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1950-1951**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1947	Surveyed 1951 Revised 1951 Edition N/A Copyright N/A Levelled 1947
Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1947	Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1947

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Production date: 22 September 2023

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Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1951**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled 1947

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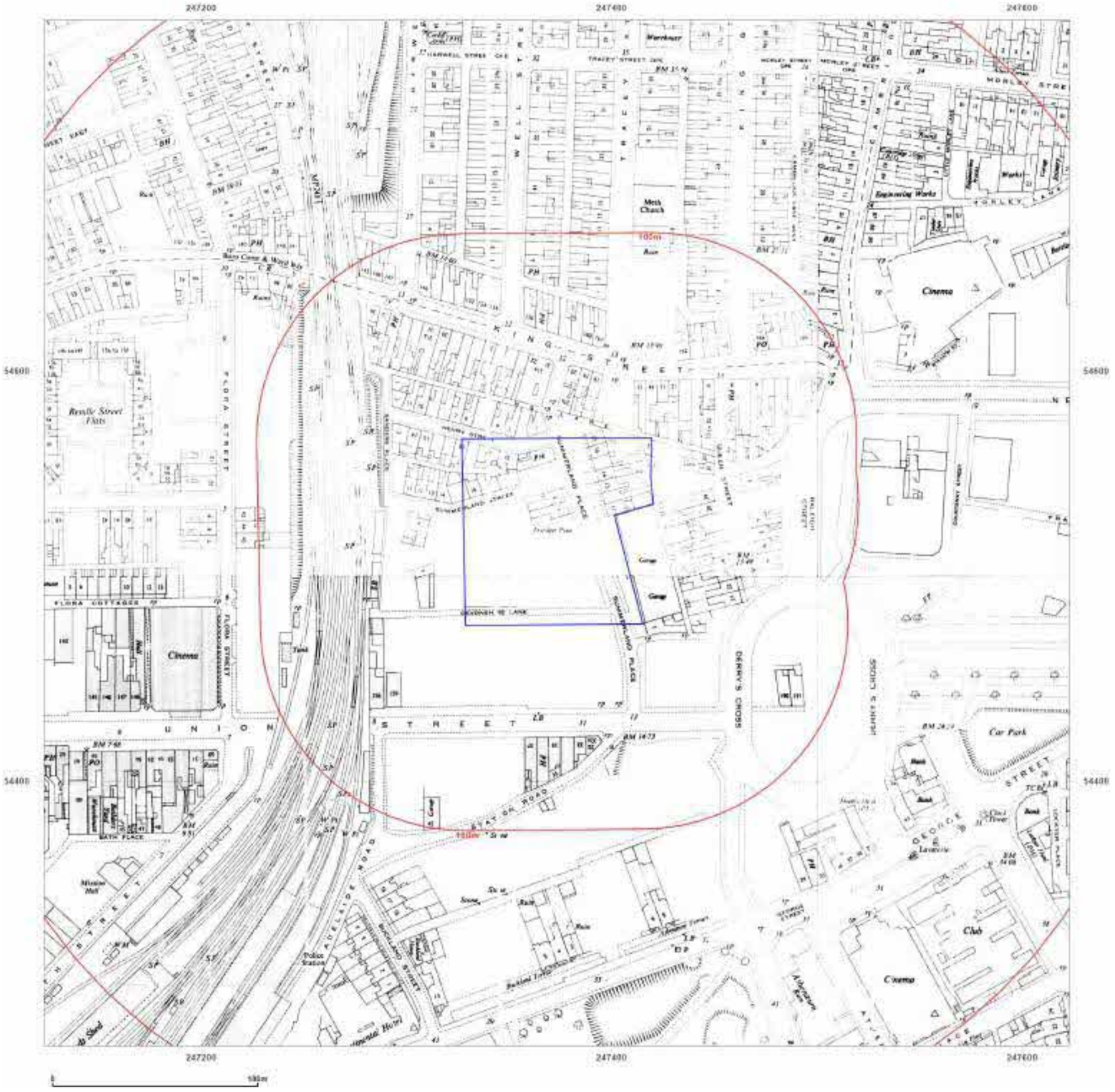

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1952**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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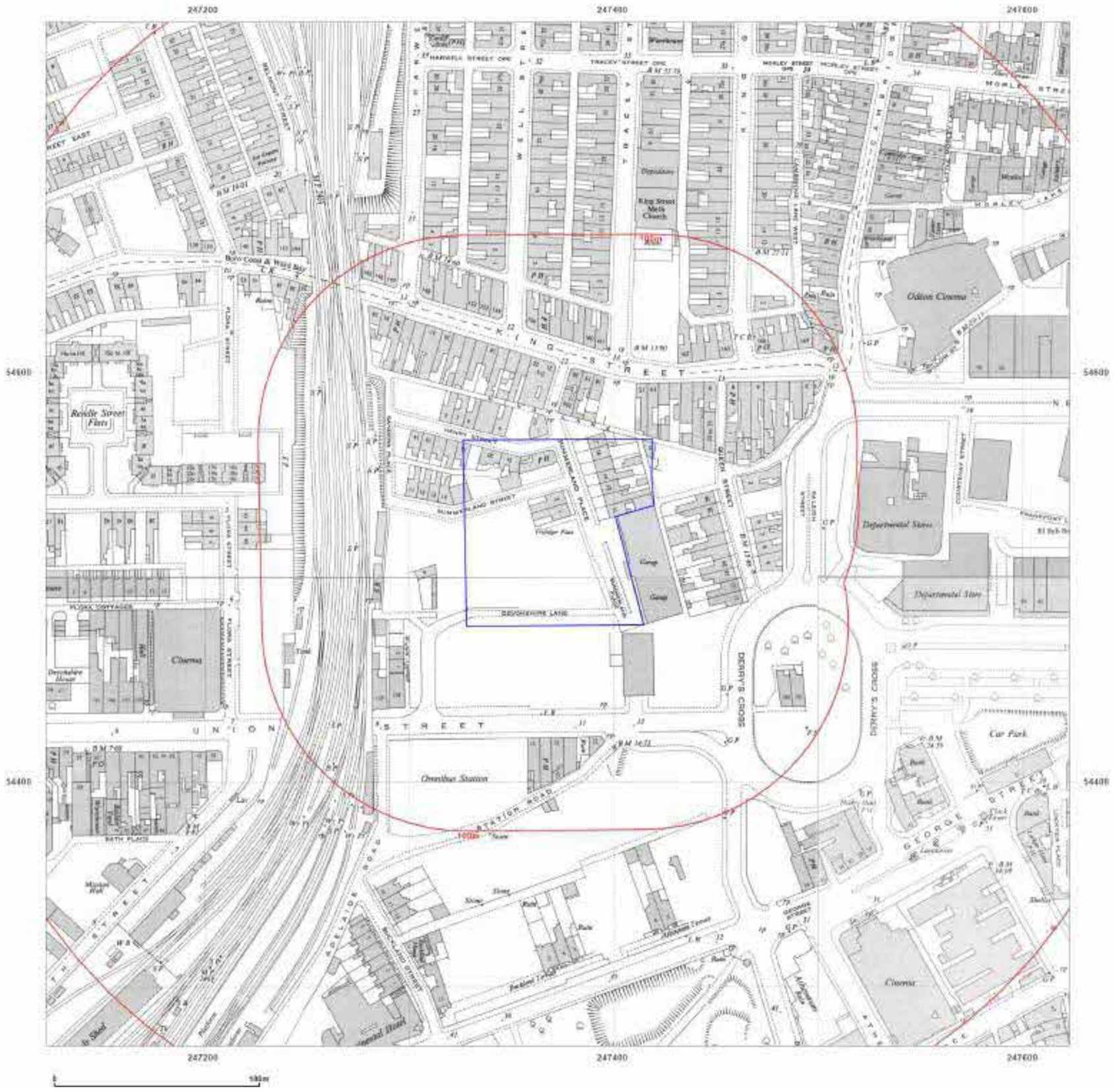

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid
Map date: **1952-1953**
Scale: 1:1,250
Printed at: 1:2,000

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Groundsure
INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref:	C10120
Report Ref:	HMD-33J-ZWS-SO6-J8B
Grid Ref:	247373, 54521

Map Name:	National Grid
Map date:	**1953-1954**
Scale:	1:1,250
Printed at:	1:2,000

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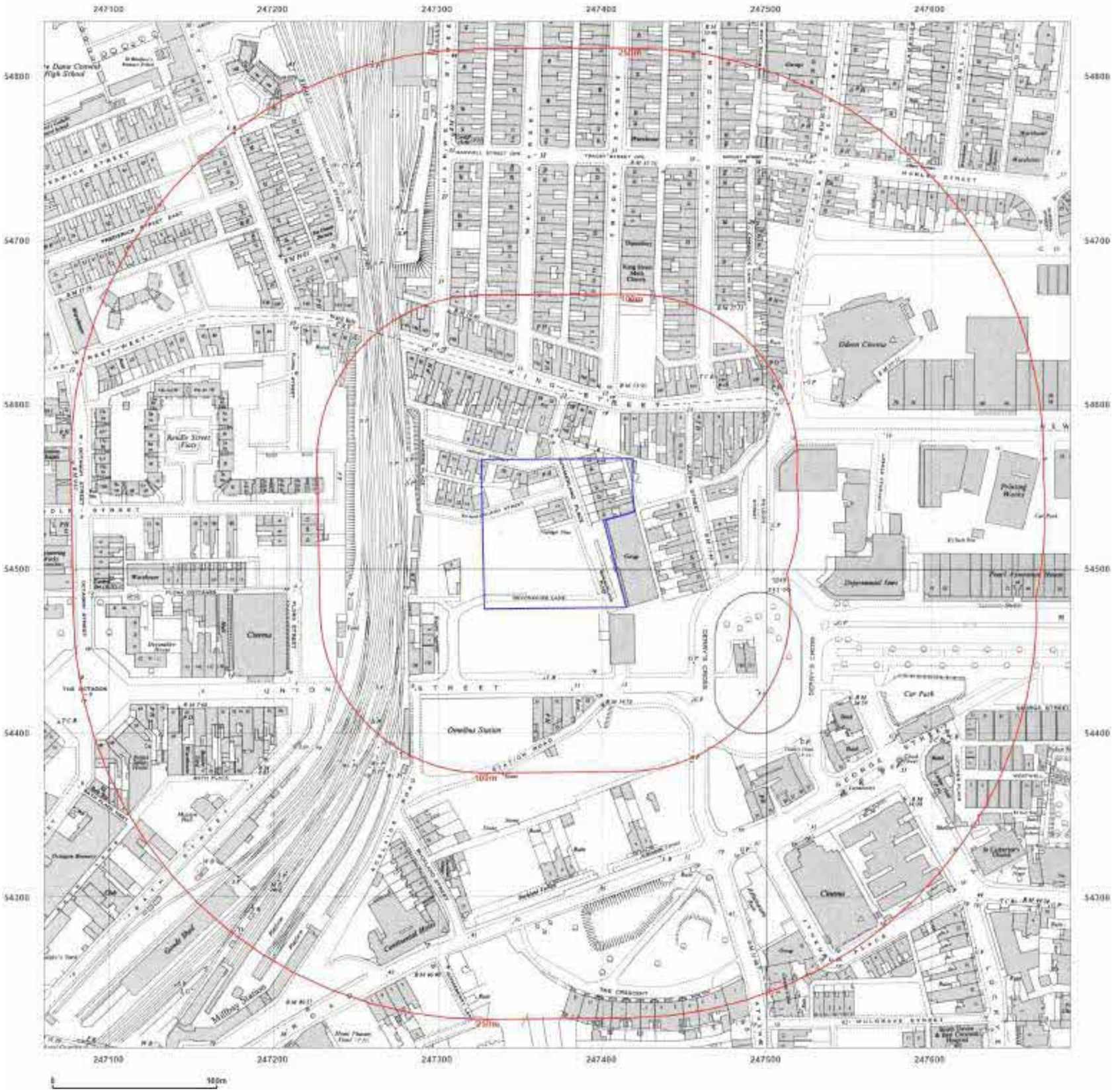

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1955**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1955
Revised 1955
Edition 1958
Copyright N/A
Levelled 1947

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Production date: 22 September 2023

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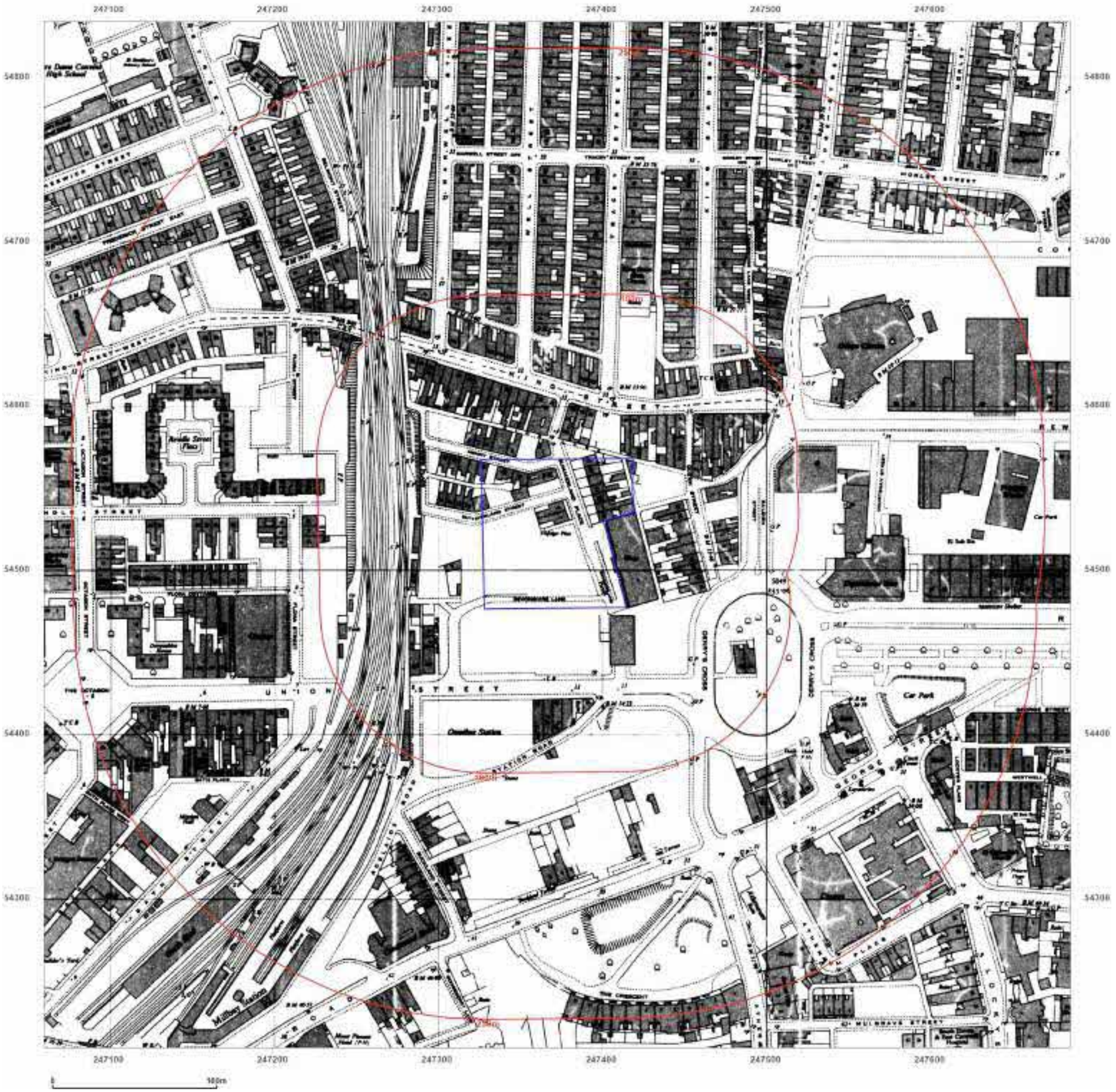

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1956**

Scale: 1:2,500

Printed at: 1:2,500

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

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Production date: 22 September 2023

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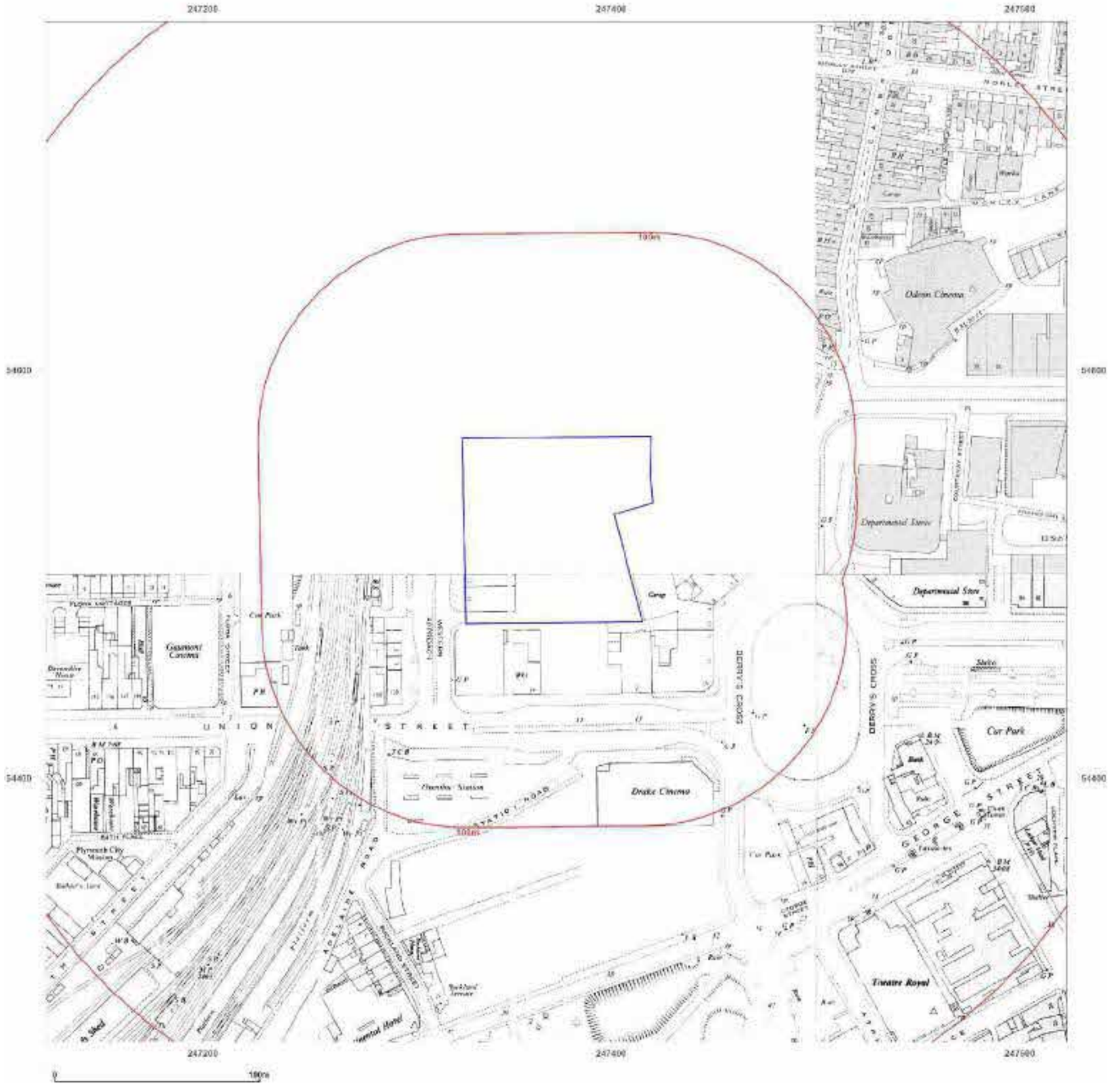

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1954-1958**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1951
Revised 1954
Edition N/A
Copyright N/A
Levelled 1947

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

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

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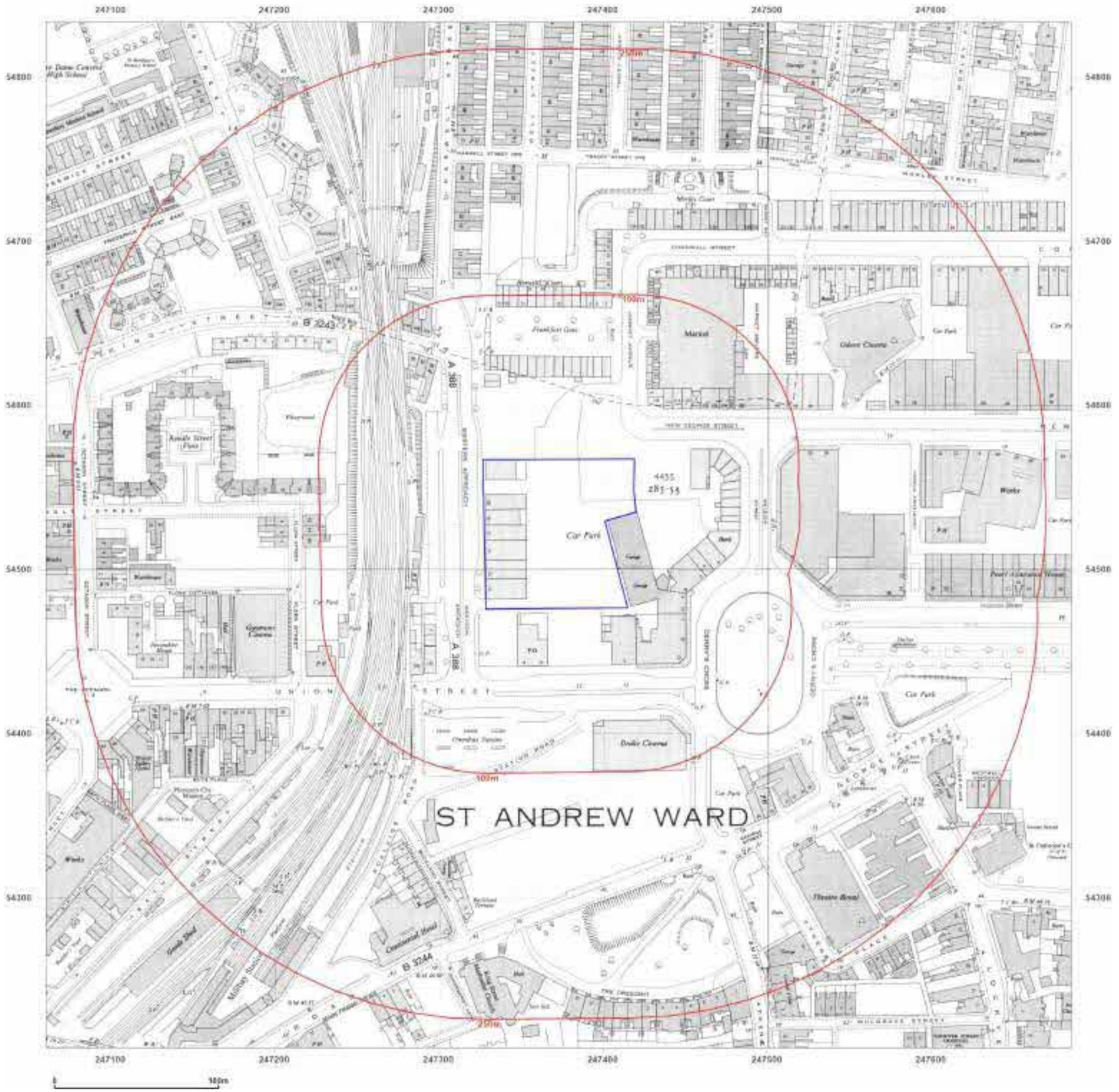

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959
Revised 1959
Edition 1961
Copyright 1961
Levelled 1947

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Production date: 22 September 2023

Map legend available at:
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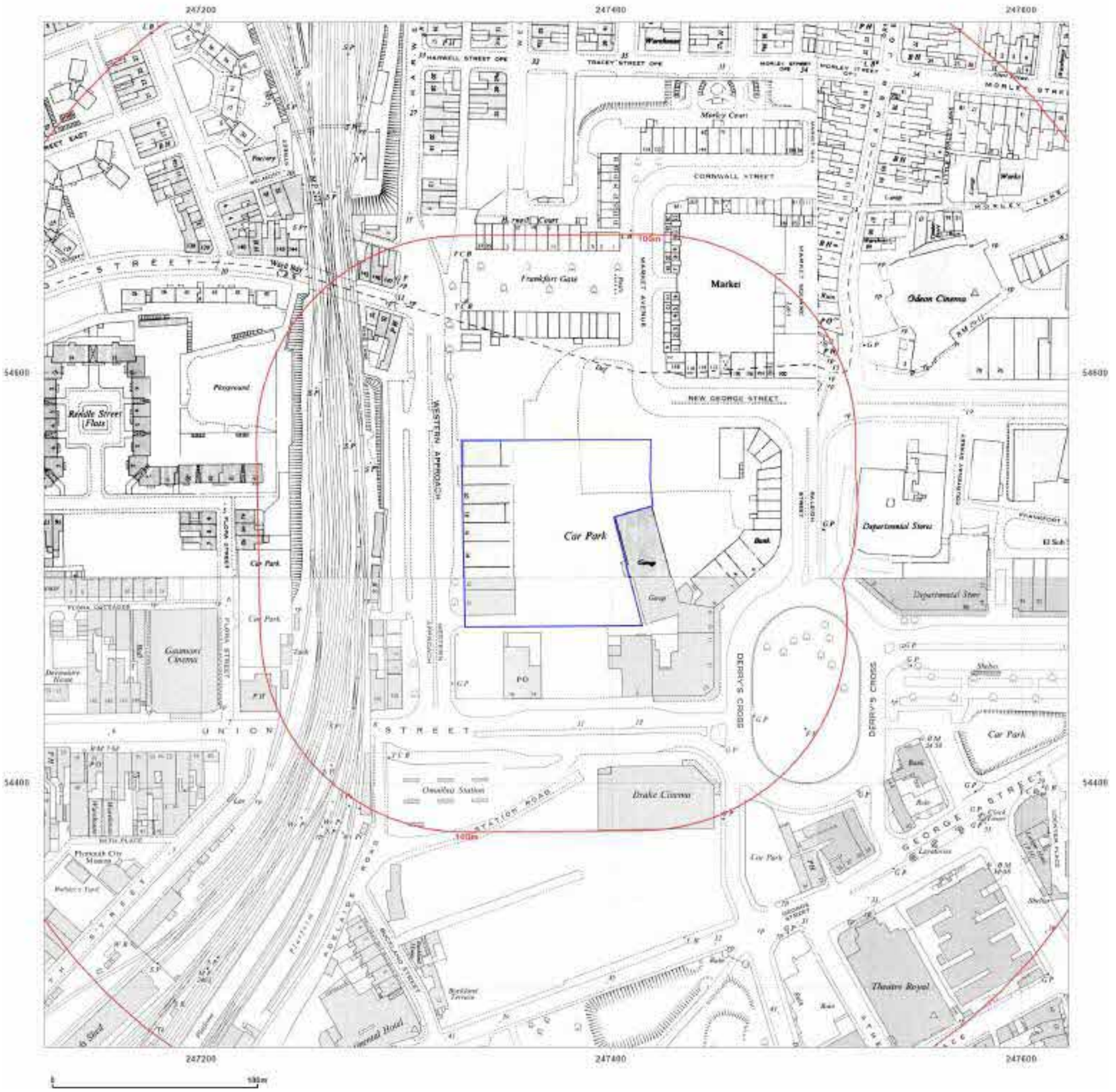

Groundsure
INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1955-1960**

Scale: 1:1,250

Printed at: 1:2,000

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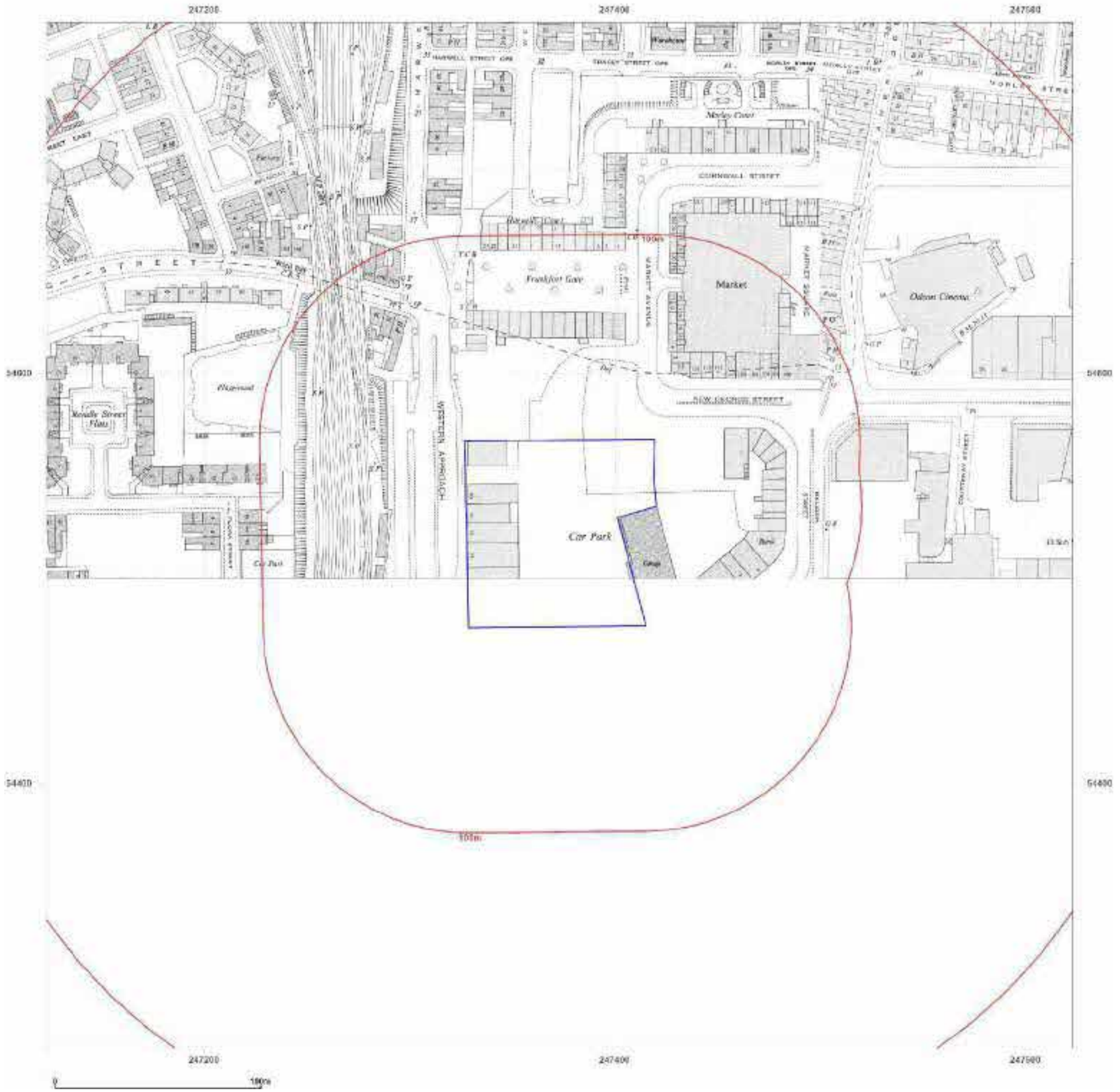

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1955-1960**

Scale: 1:1,250

Printed at: 1:2,000

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Map legend available at:
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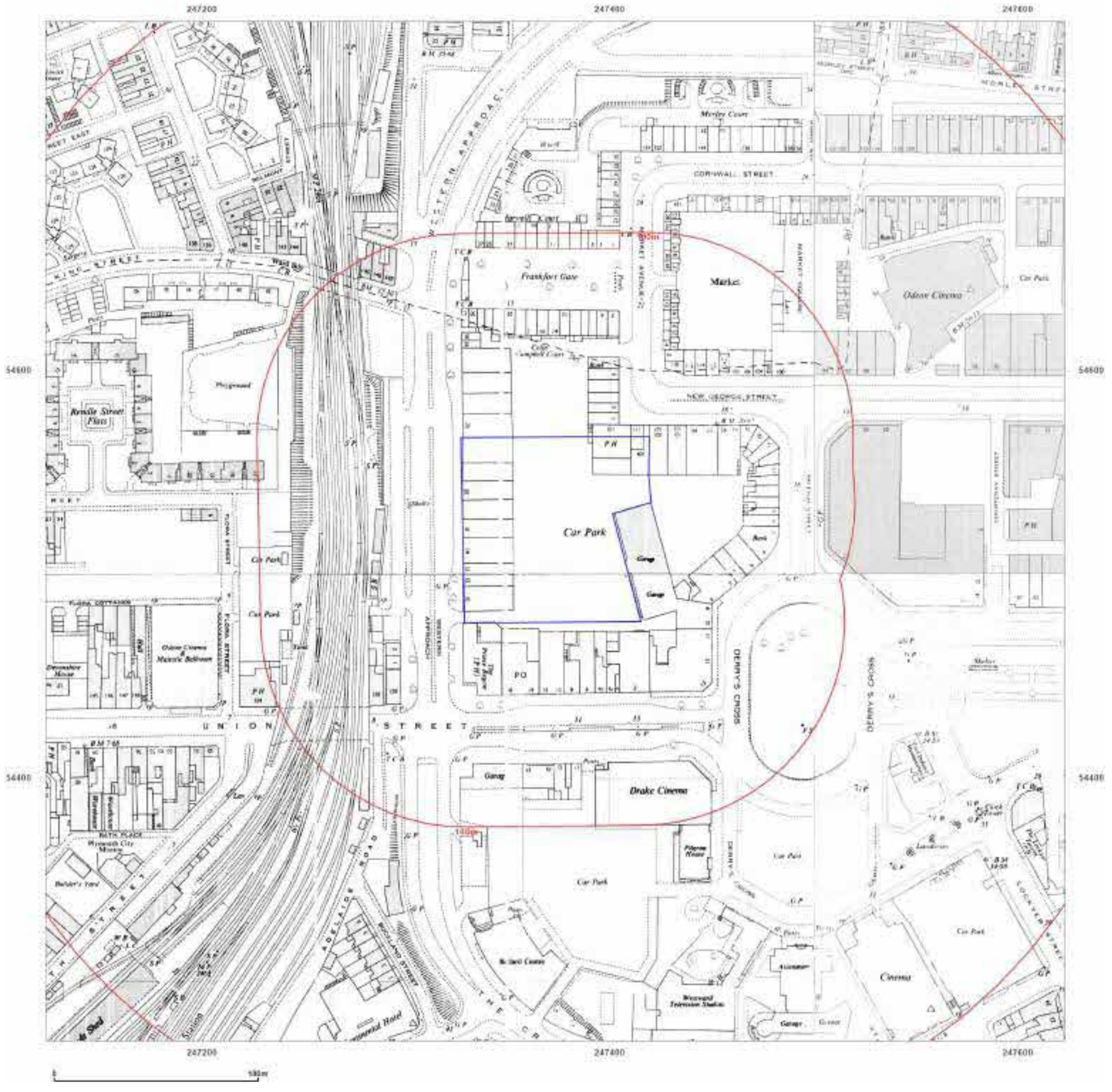

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1959-1964**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1951 Revised 1959 Edition N/A Copyright 1960 Levelled 1947
Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

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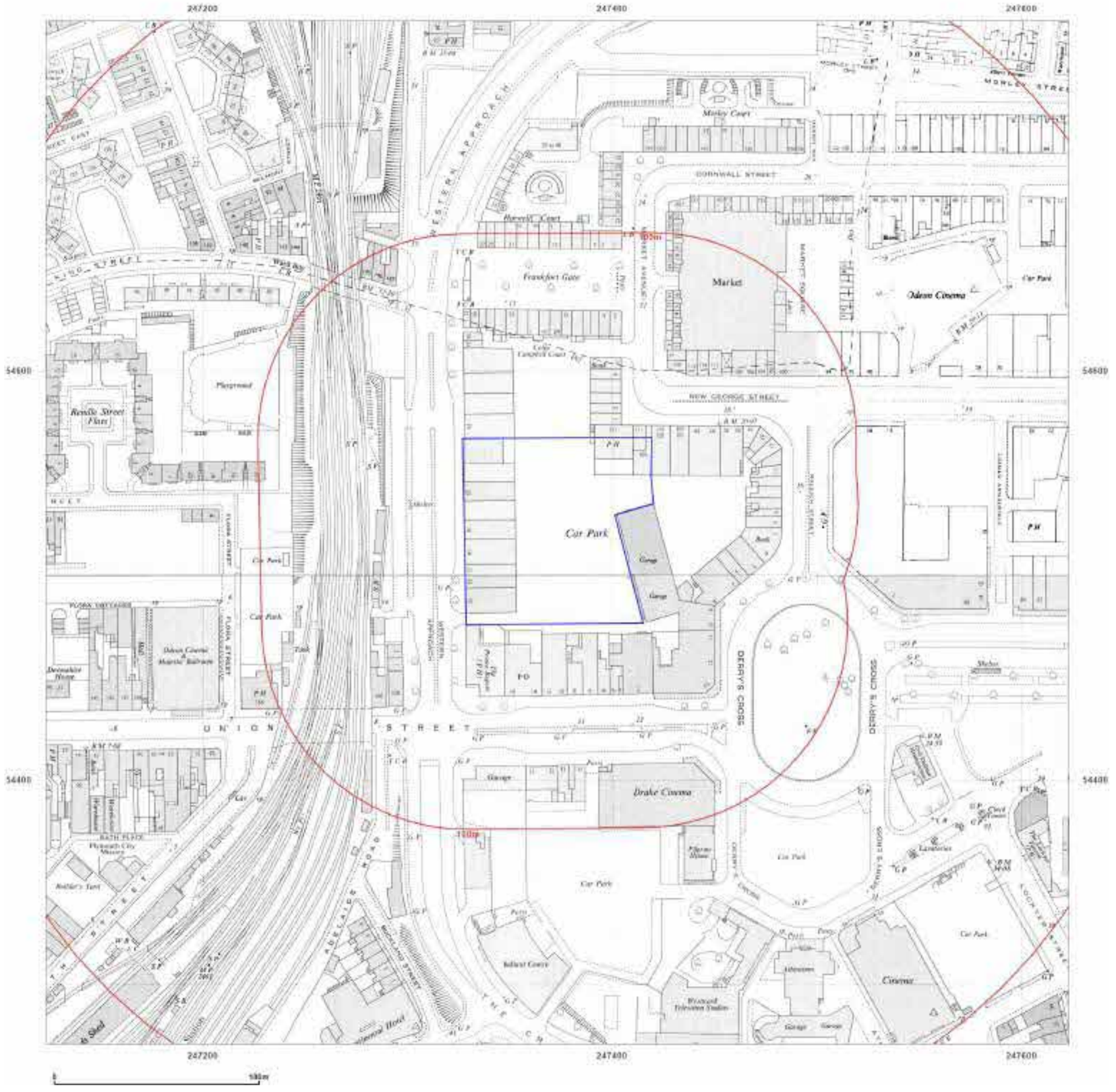

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref:	C10120
Report Ref:	HMD-33J-ZWS-SO6-J8B
Grid Ref:	247373, 54521

Map Name:	National Grid
Map date:	**1960-1965**
Scale:	1:1,250
Printed at:	1:2,000

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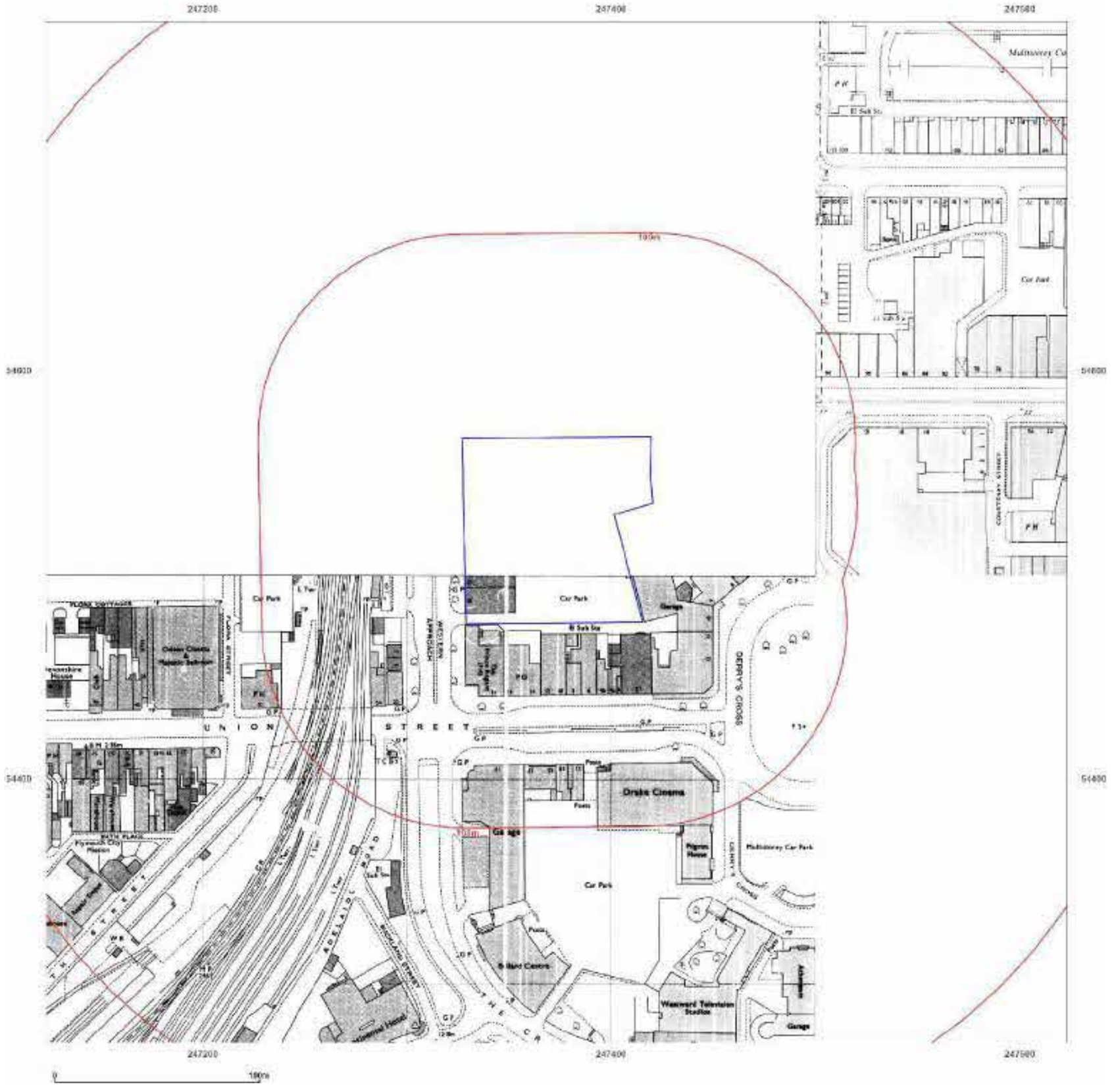

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Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1969-1971**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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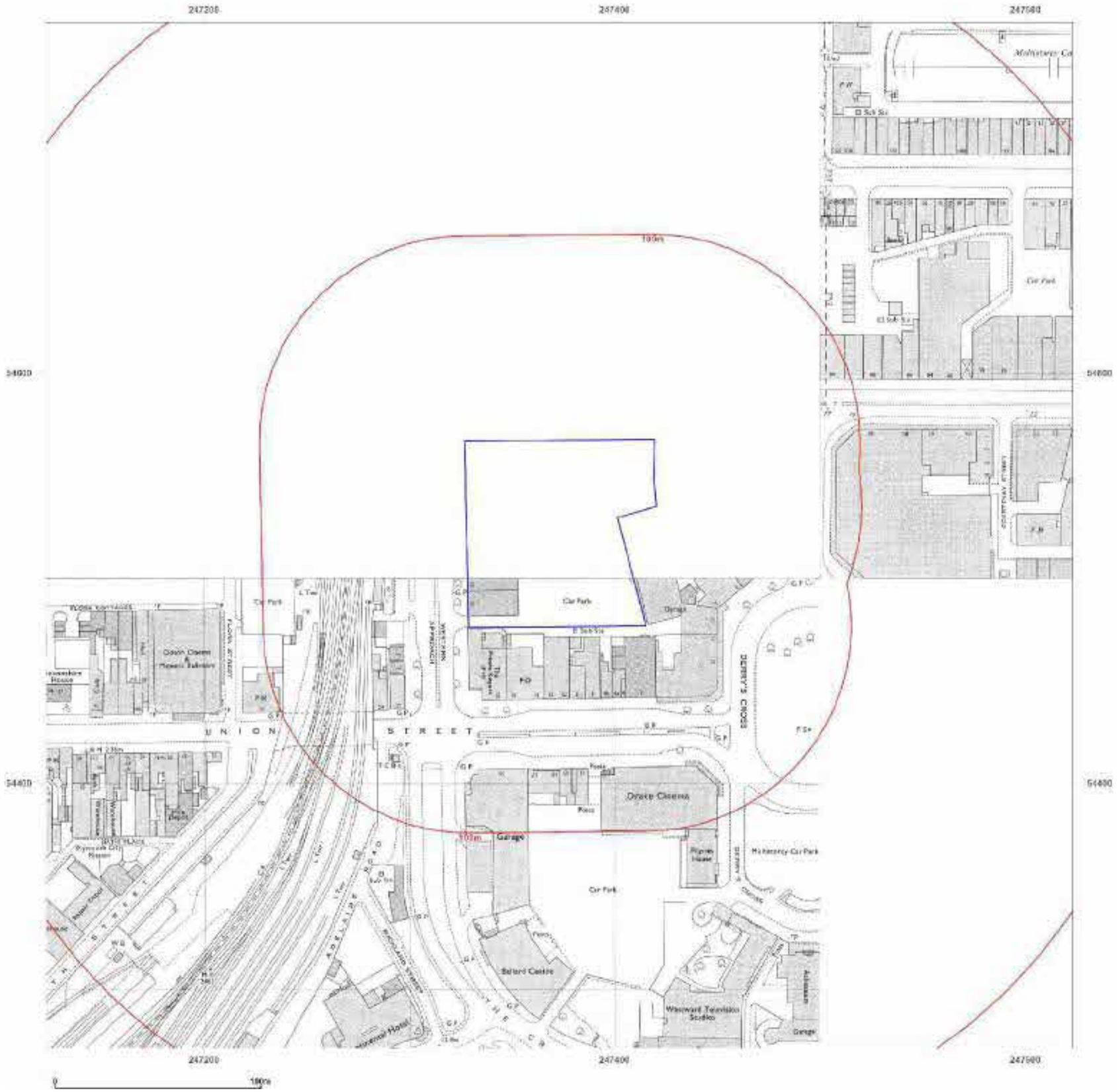

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1969-1971**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1951
Revised 1968
Edition N/A
Copyright 1969
Levelled 1963

Surveyed 1950
Revised 1970
Edition N/A
Copyright 1971
Levelled 1963

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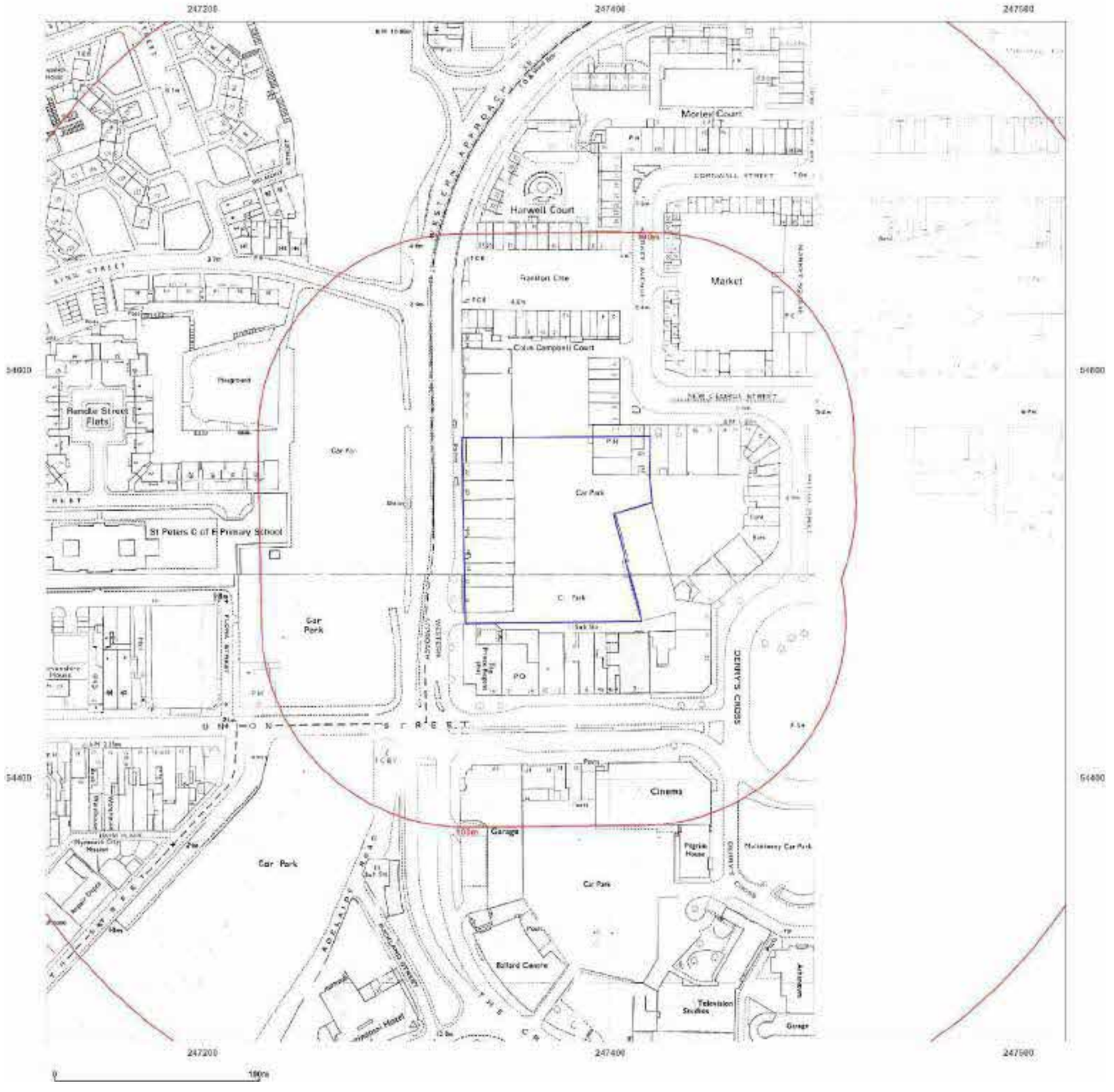

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1978-1982**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1963

Surveyed 1963
Revised 1982
Edition N/A
Copyright 1982
Levelled 1963

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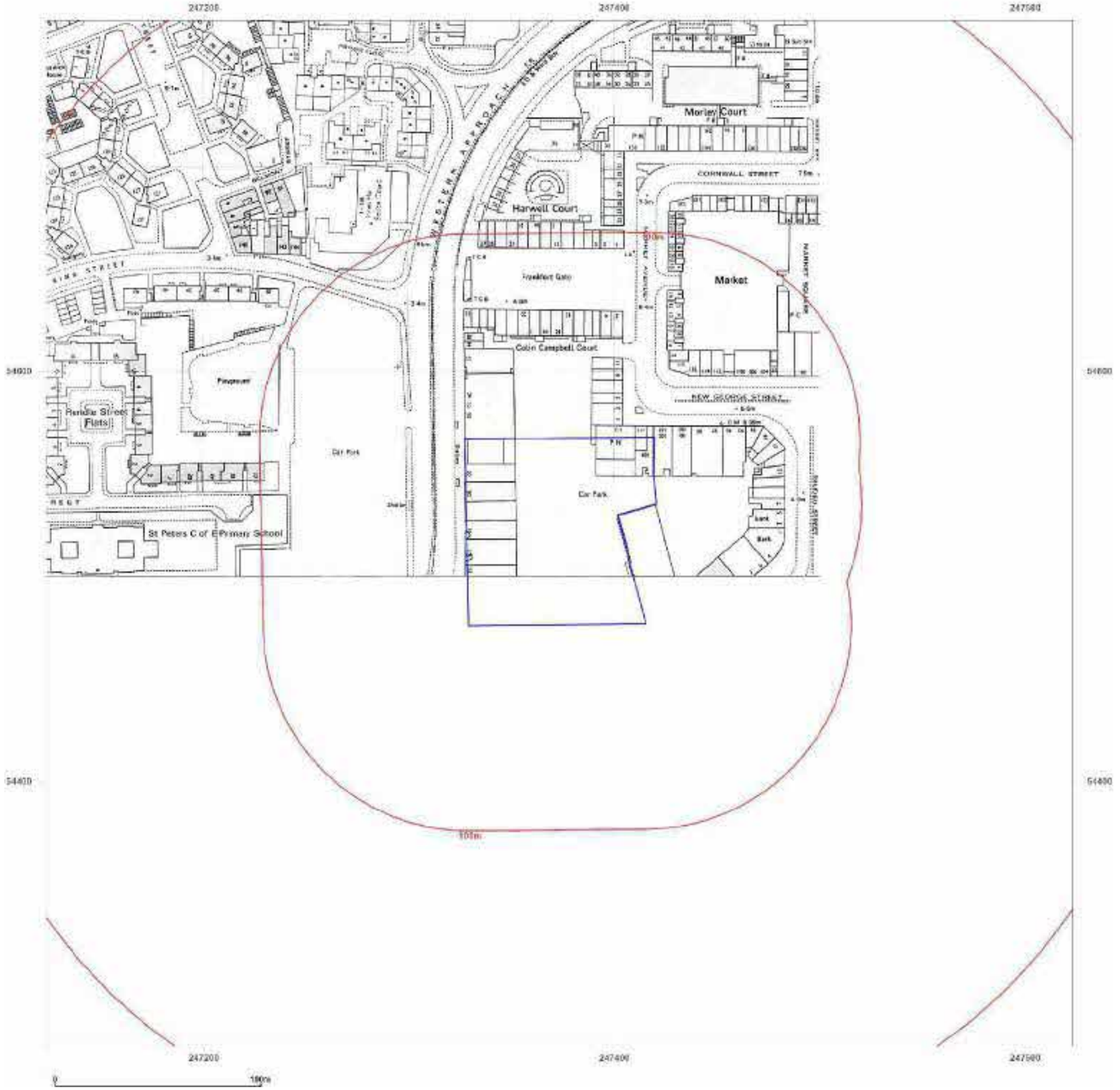

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1983**

Scale: 1:1,250

Printed at: 1:2,000

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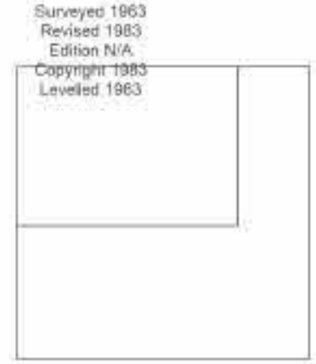

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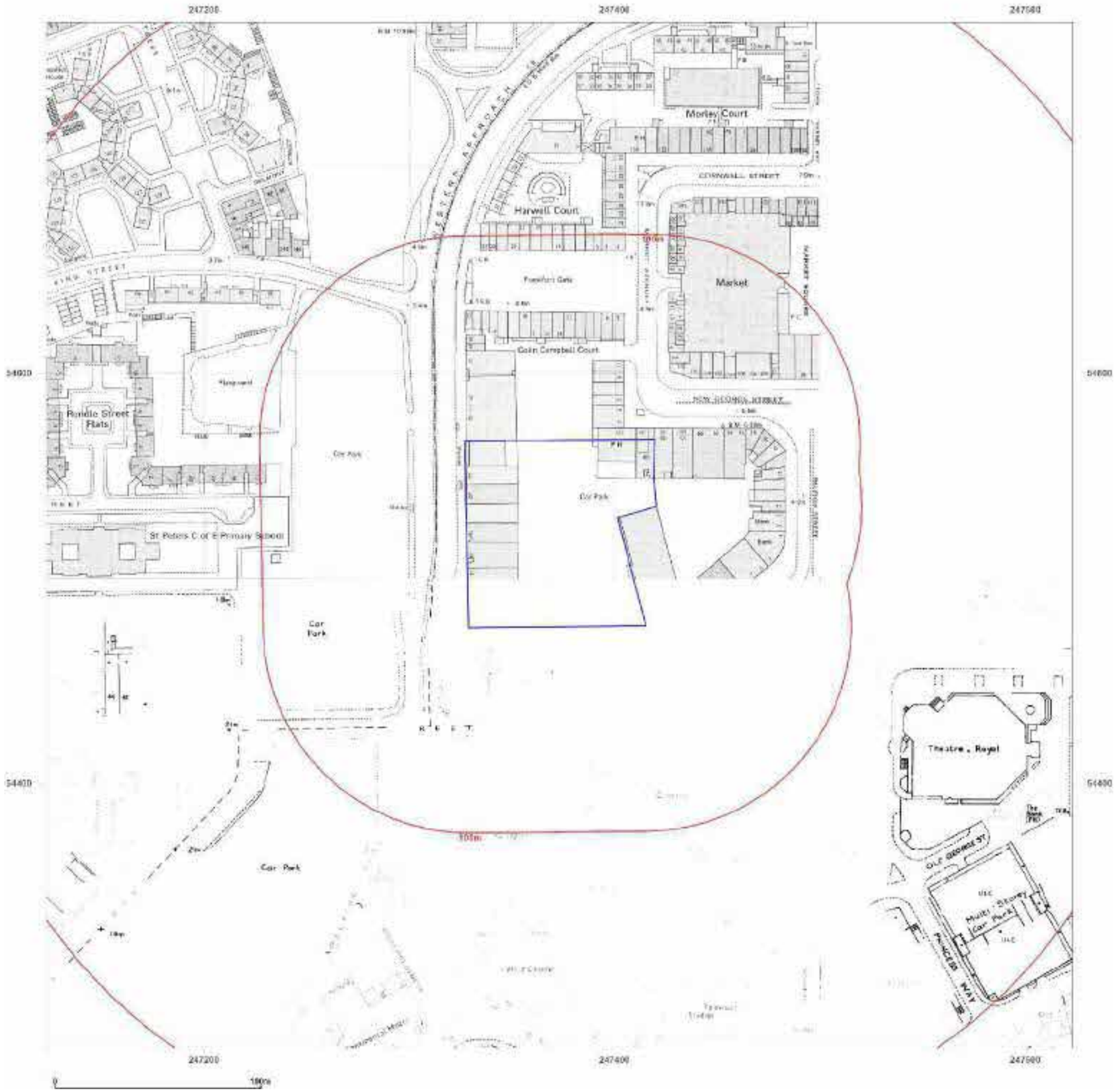

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1982-1984**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950
Revised 1981
Edition N/A
Copyright 1982
Levelled 1963

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 1984
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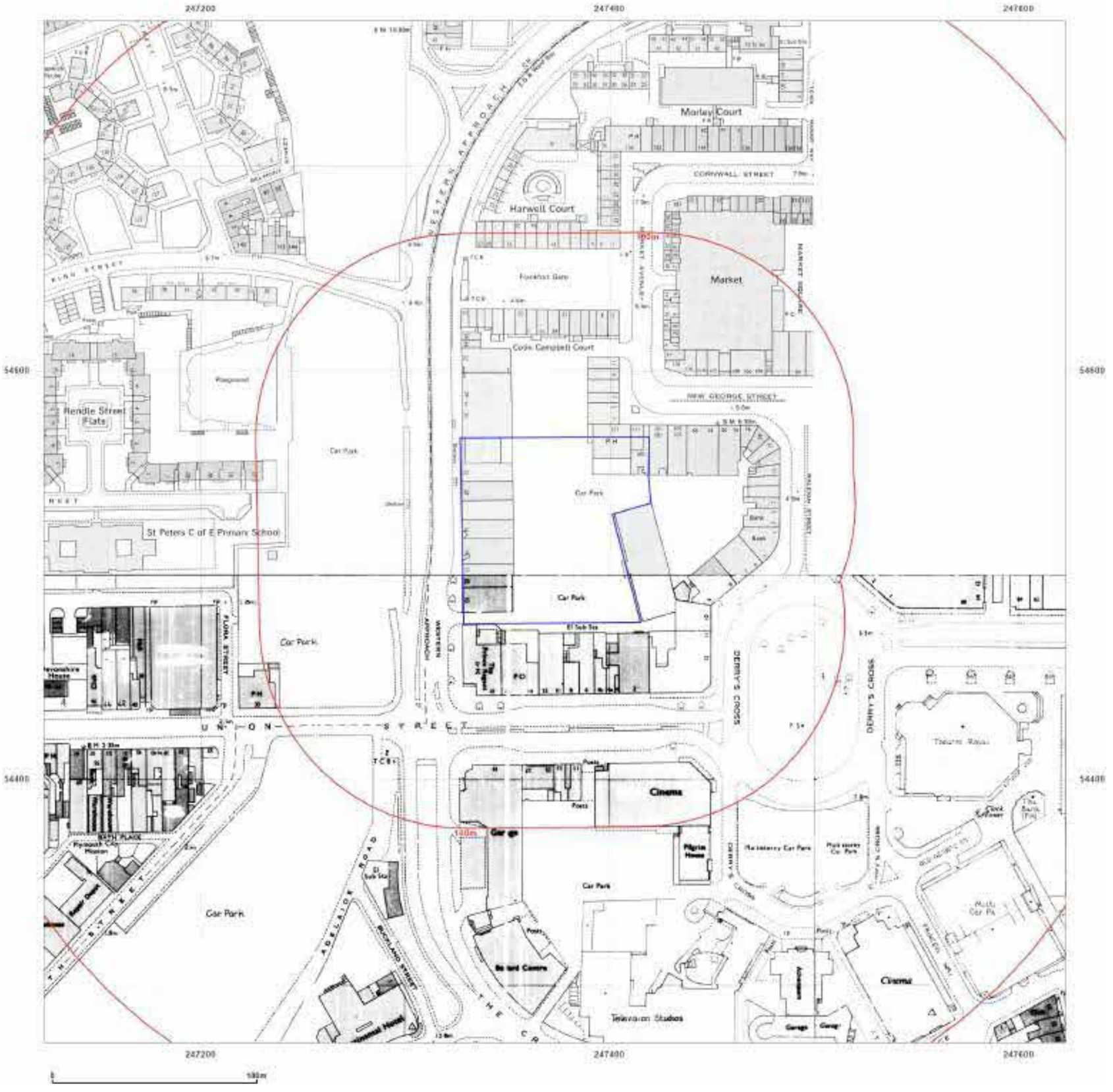

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950
Revised 1981
Edition N/A
Copyright 1982
Levelled 1963

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

Surveyed N/A
Revised N/A
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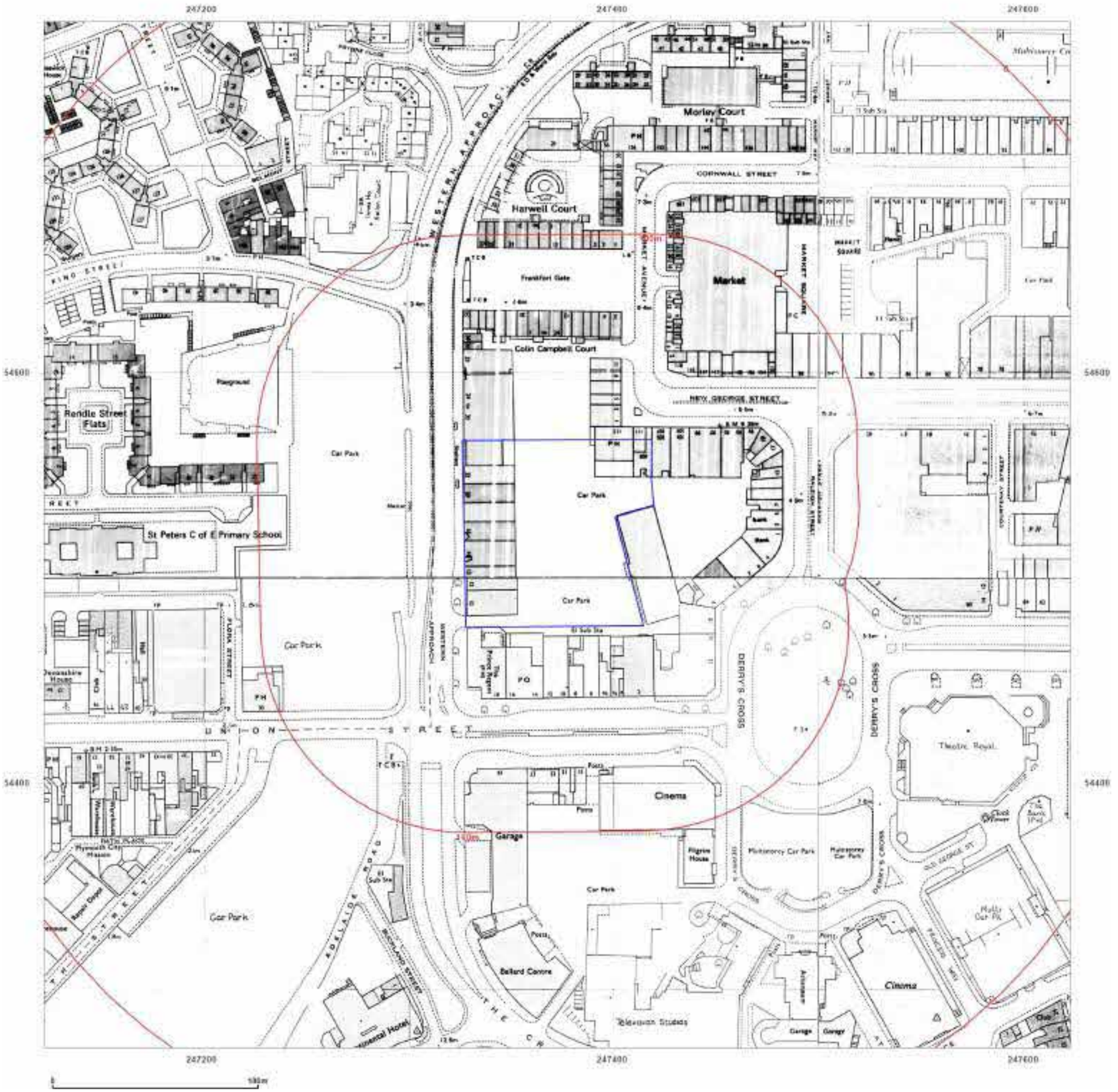

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1983-1988**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveyed 1963 Revised 1987 Edition N/A Copyright 1987 Levelled 1963	Surveyed 1963 Revised 1987 Edition N/A Copyright 1987 Levelled 1963

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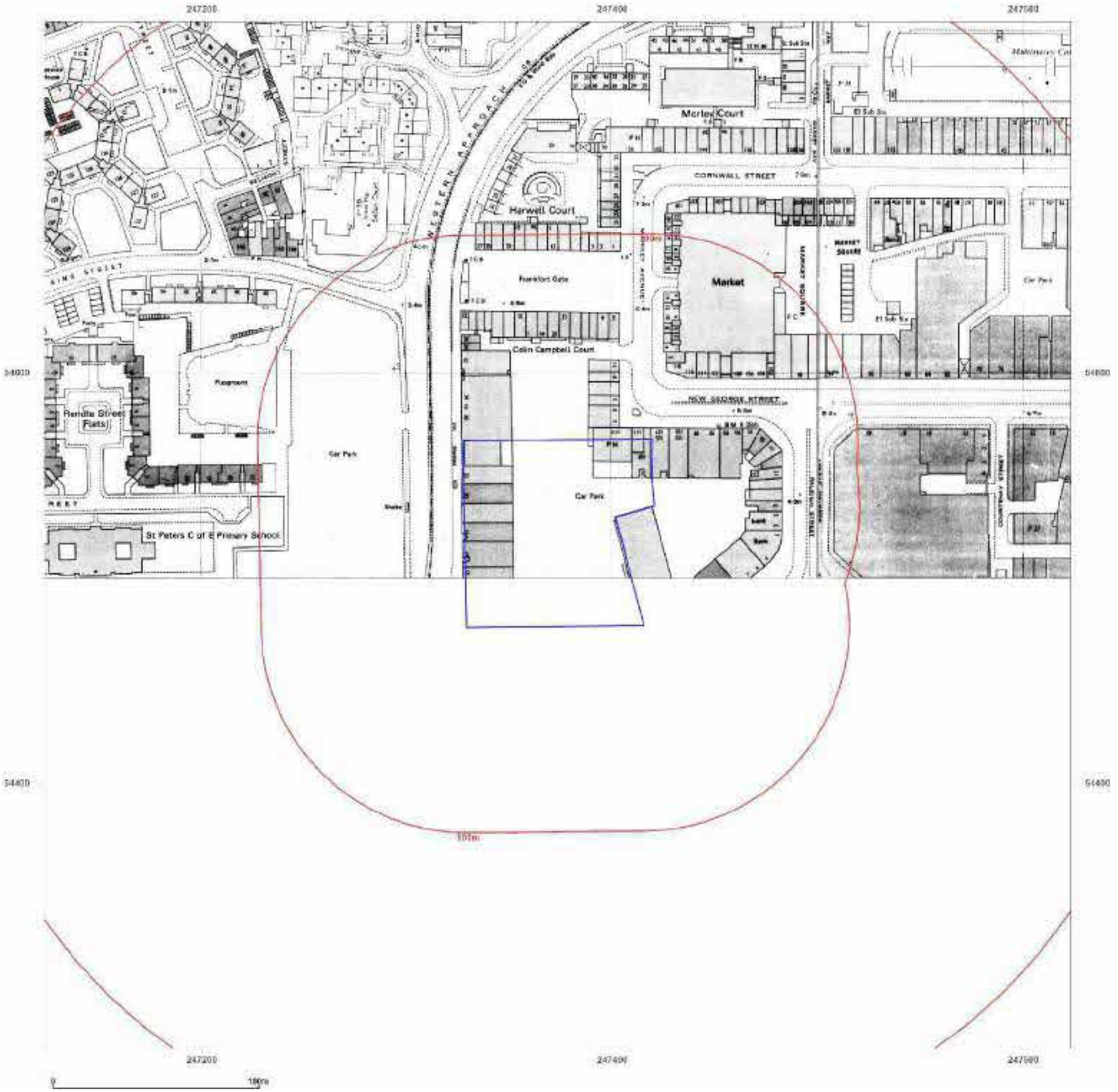

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1983-1988**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1950
Revised 1981
Edition N/A
Copyright 1983
Levelled 1963

Surveyed 1963
Revised 1988
Edition N/A
Copyright 1988
Levelled 1963

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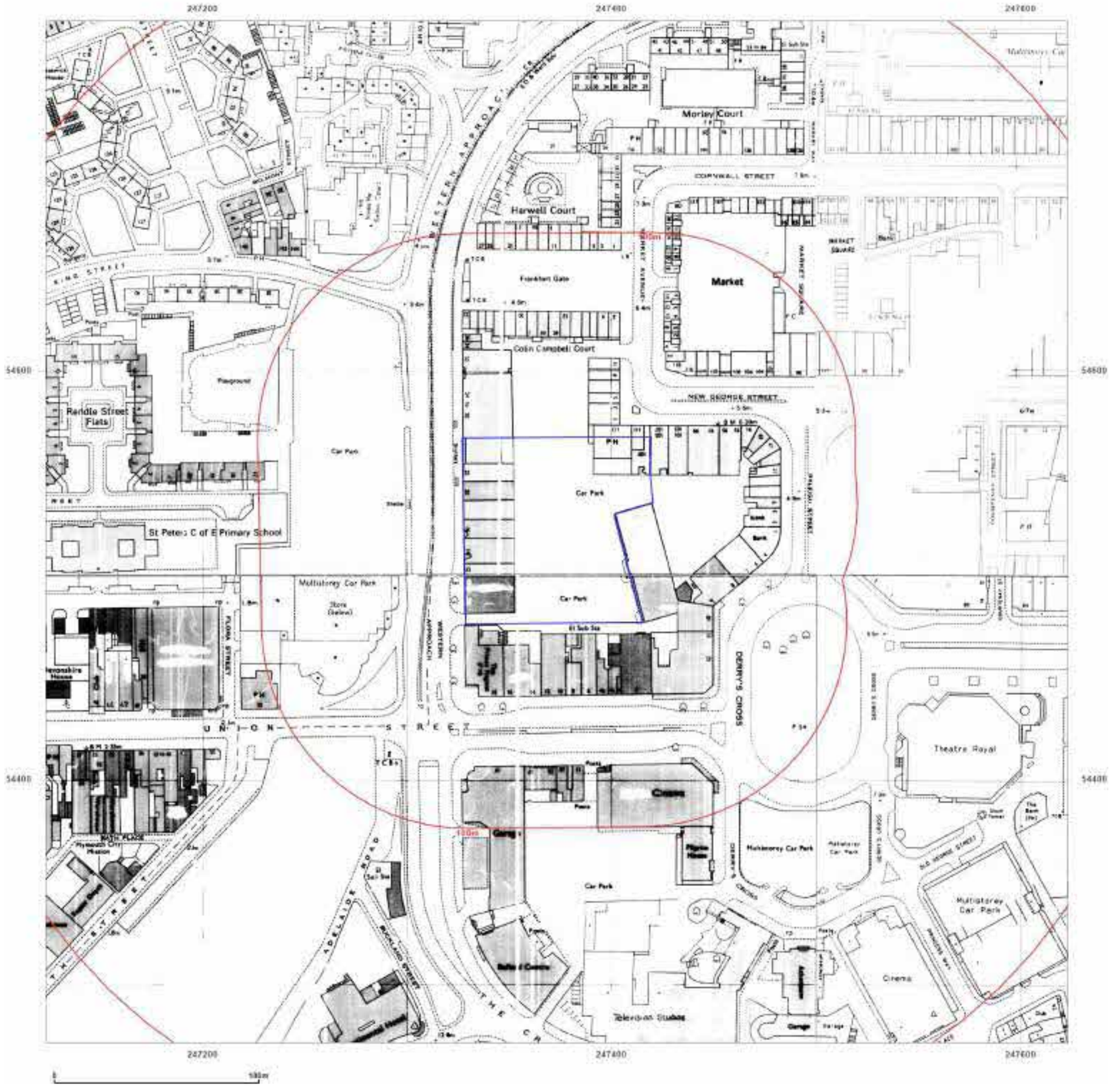

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1988 Levelled 1963
Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A

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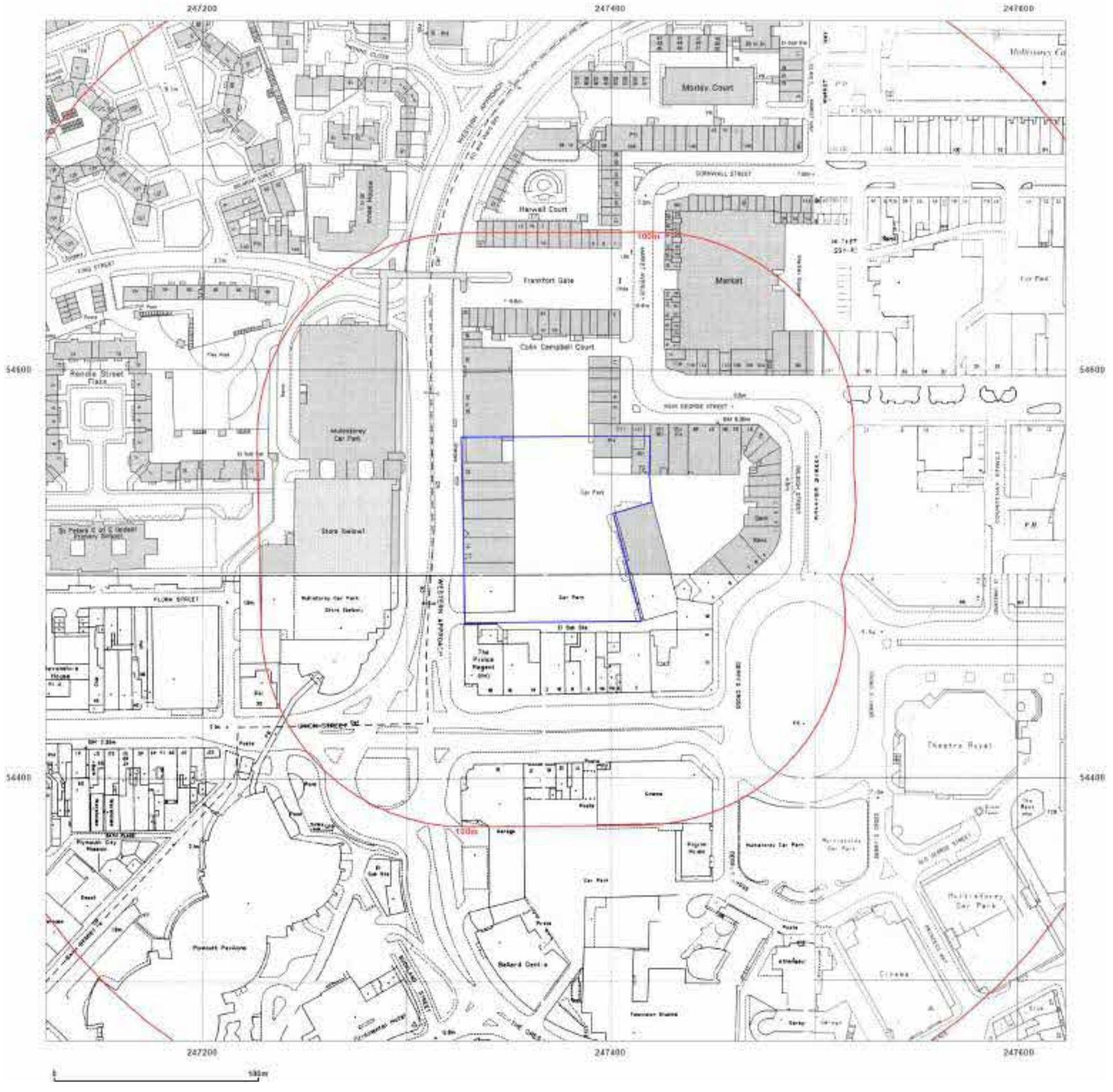

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950 Revised 1989 Edition N/A Copyright 1989 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed 1992 Revised 1992 Edition N/A Copyright 1992 Levelled N/A

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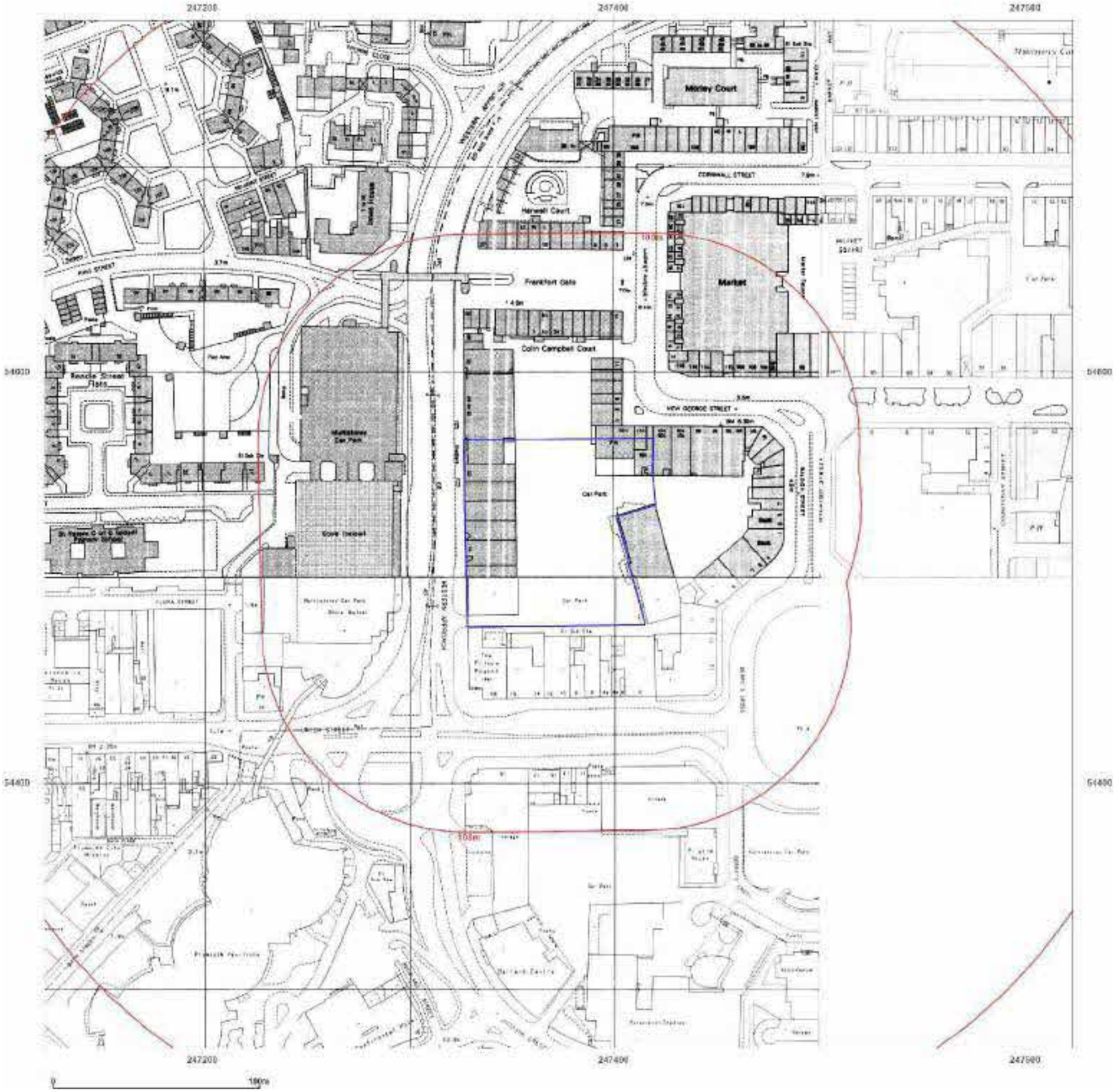

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1963
Revised 1989
Edition N/A
Copyright 1989
Levelled 1963

Surveyed 1950
Revised 1970
Edition N/A
Copyright 1992
Levelled N/A

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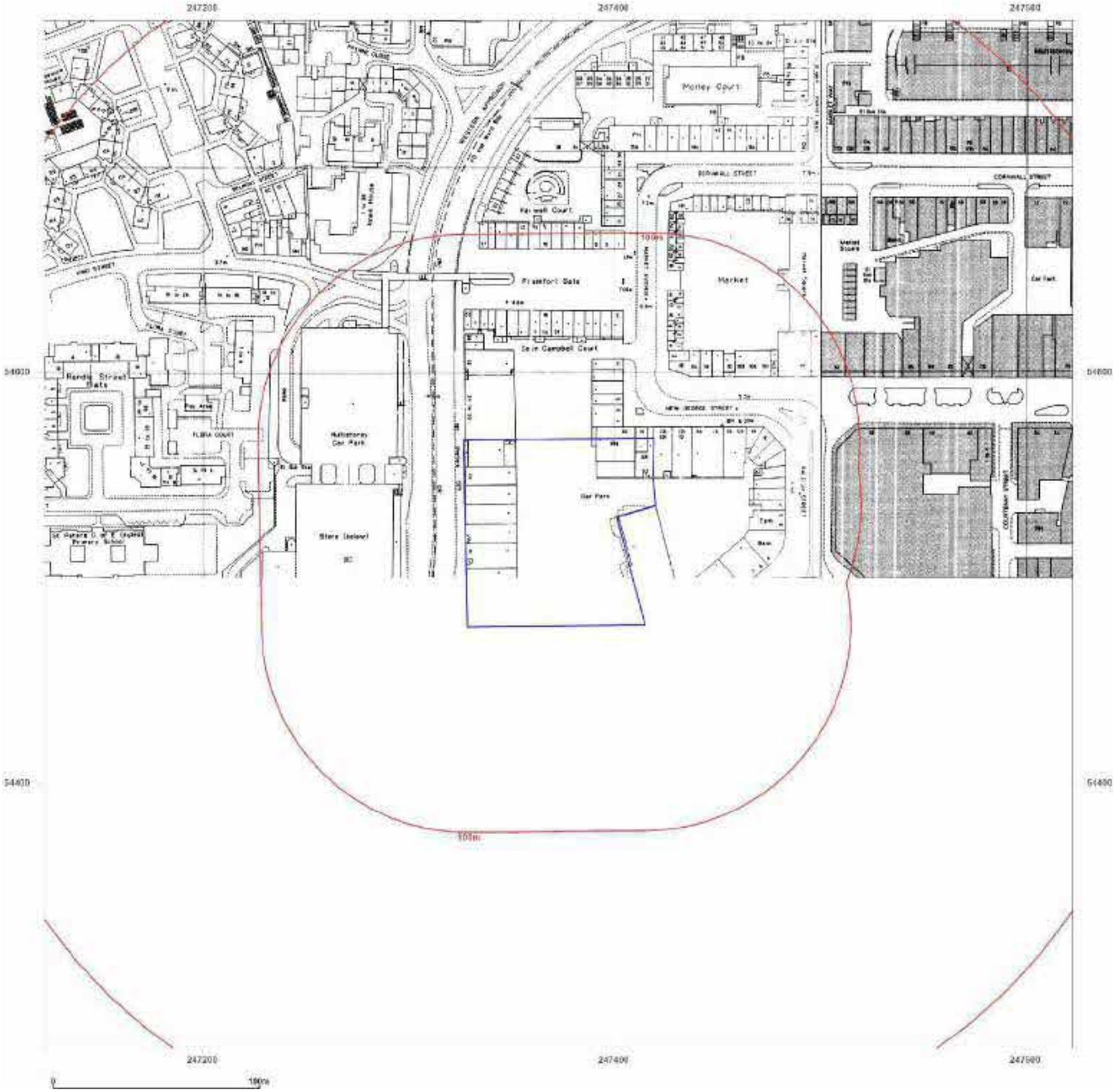

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:1,250

Printed at: 1:2,000

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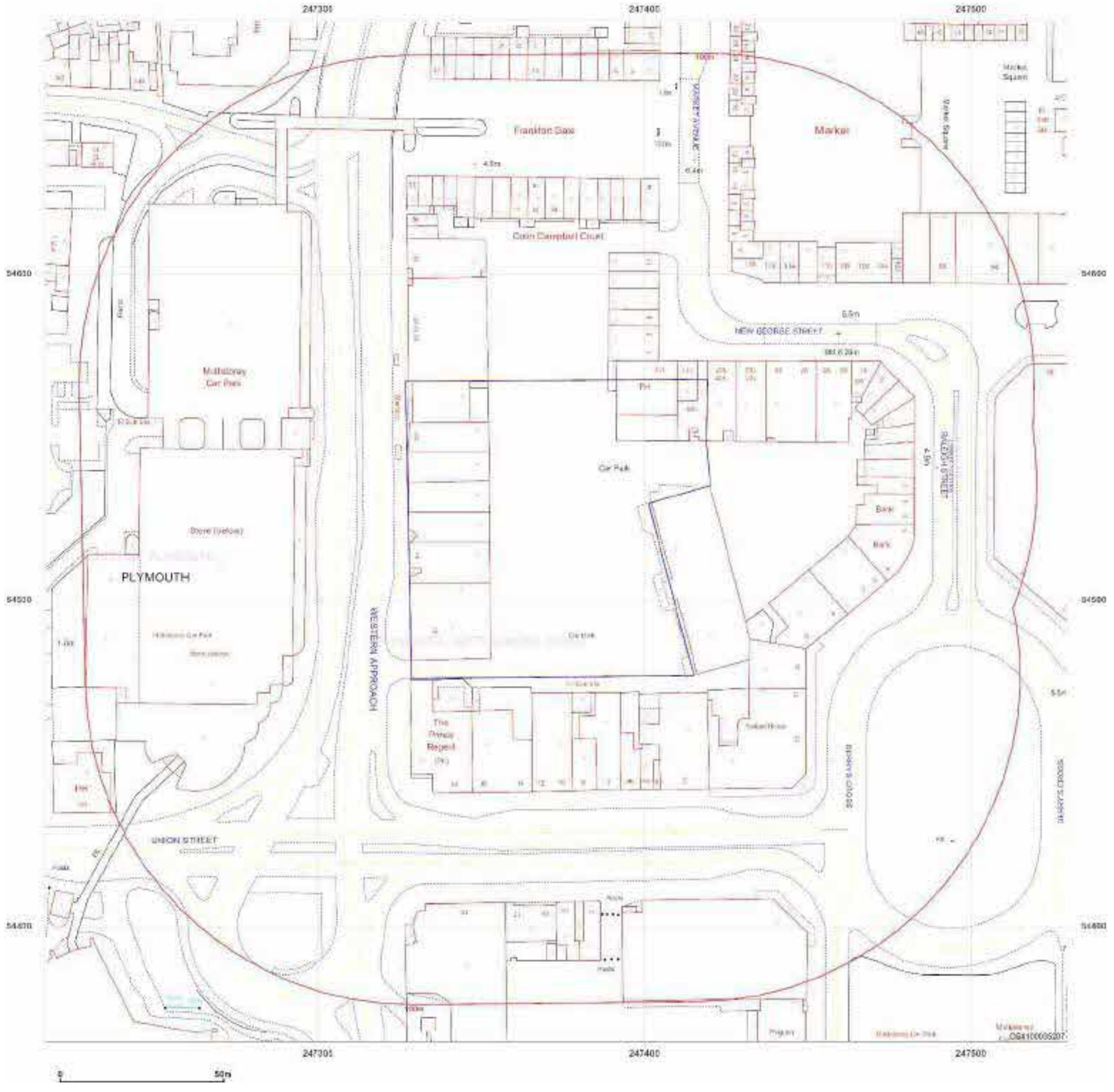

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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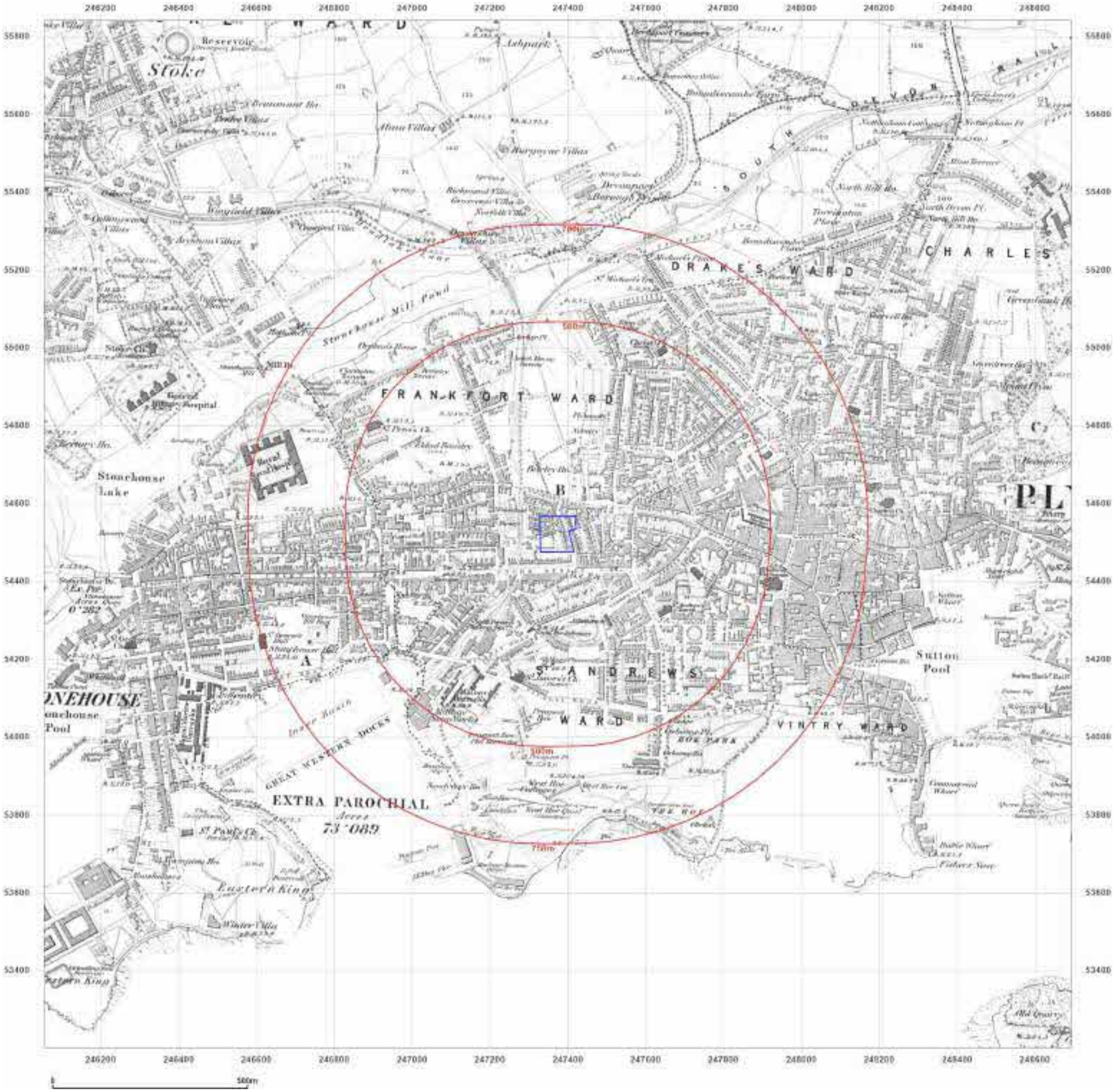

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Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref:	C10120
Report Ref:	HMD-33J-ZWS-SO6-J8B
Grid Ref:	247373, 54521

Map Name:	County Series
Map date:	**1856**
Scale:	1:10,560
Printed at:	1:10,560

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Surveyed 1856
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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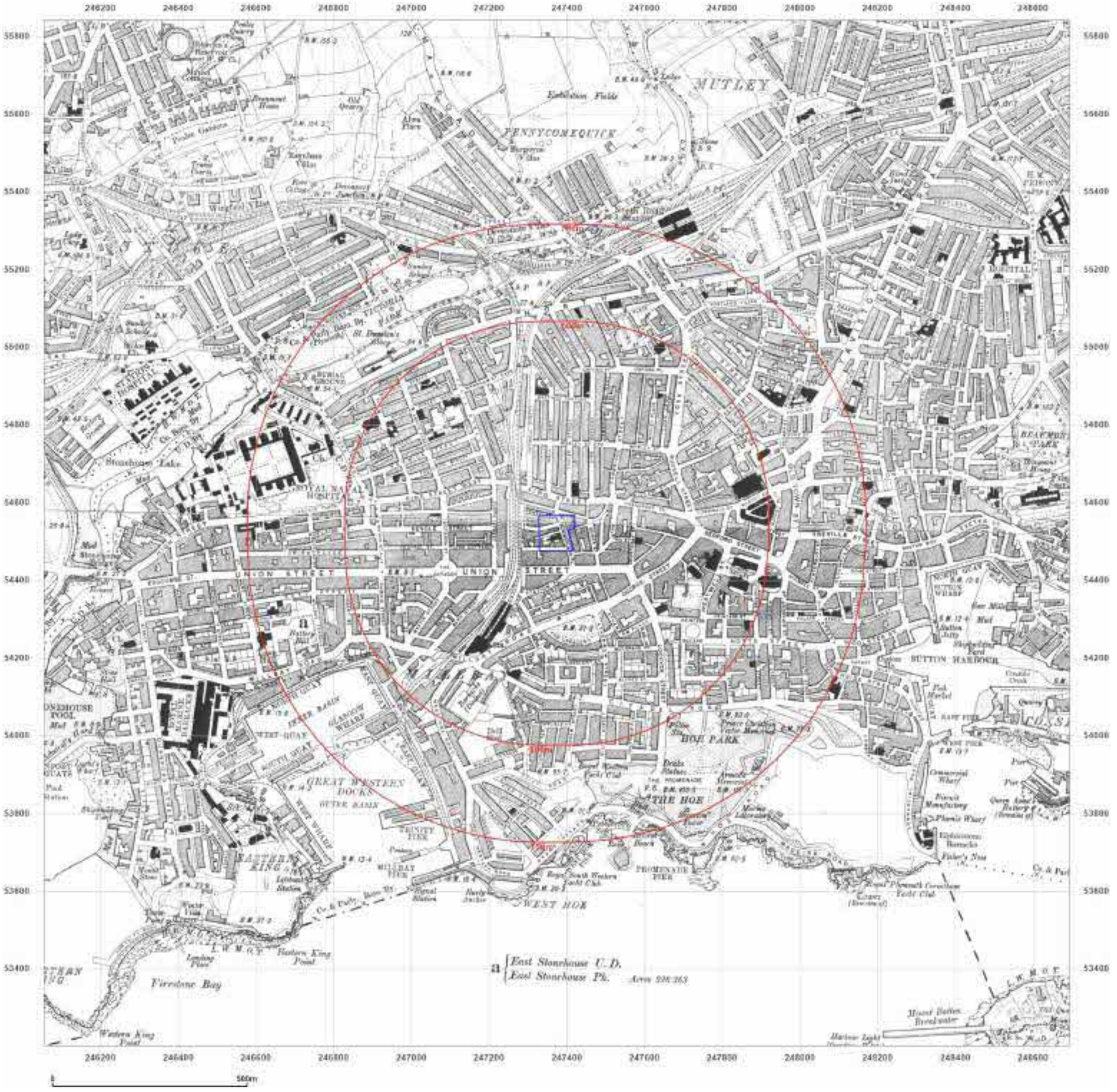

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1905-1907**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1860
Revised 1905
Edition 1907
Copyright N/A
Levelled N/A

Surveyed 1860
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

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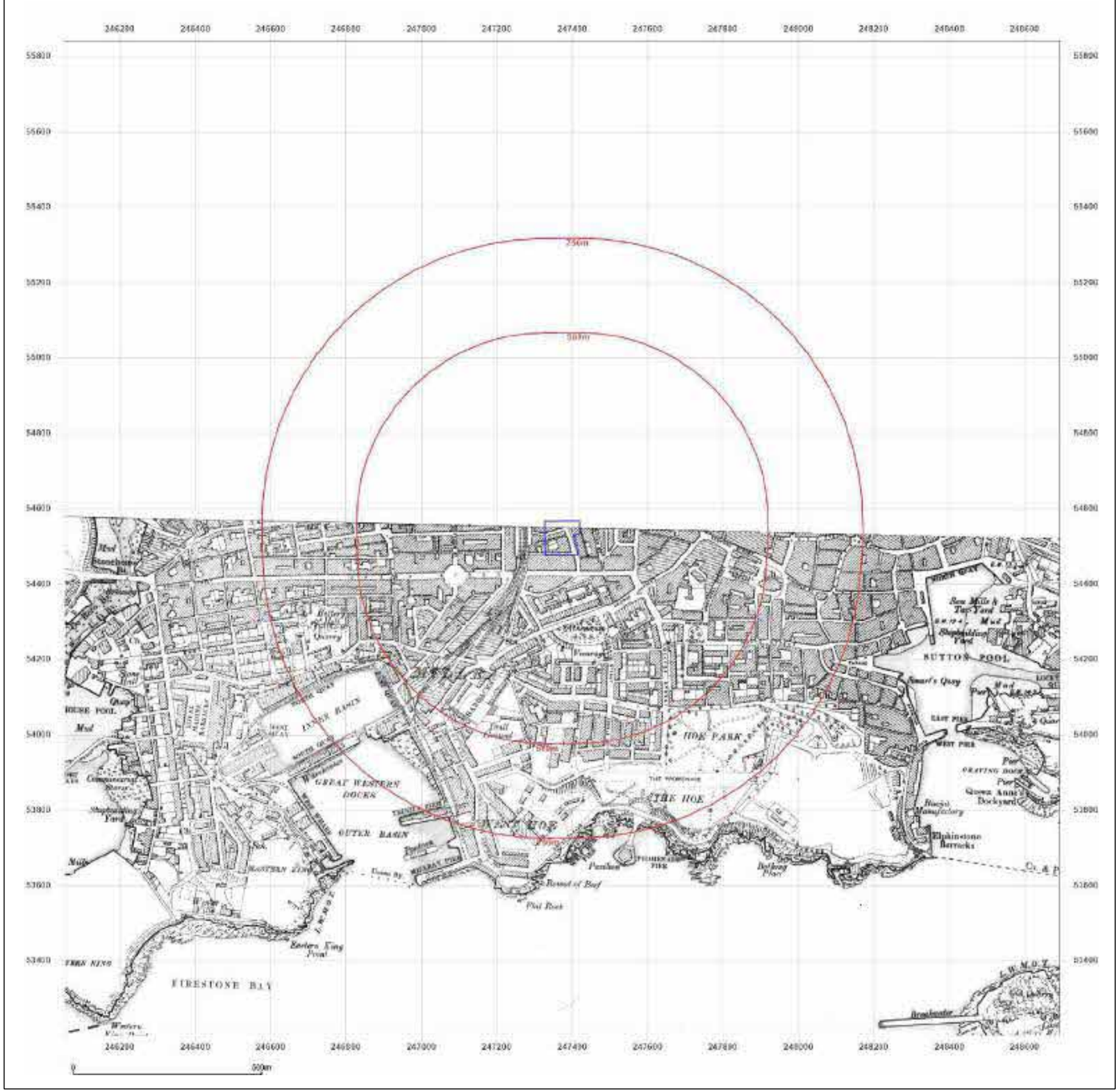

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series
Map date: **1907**
Scale: 1:10,560
Printed at: 1:10,560

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

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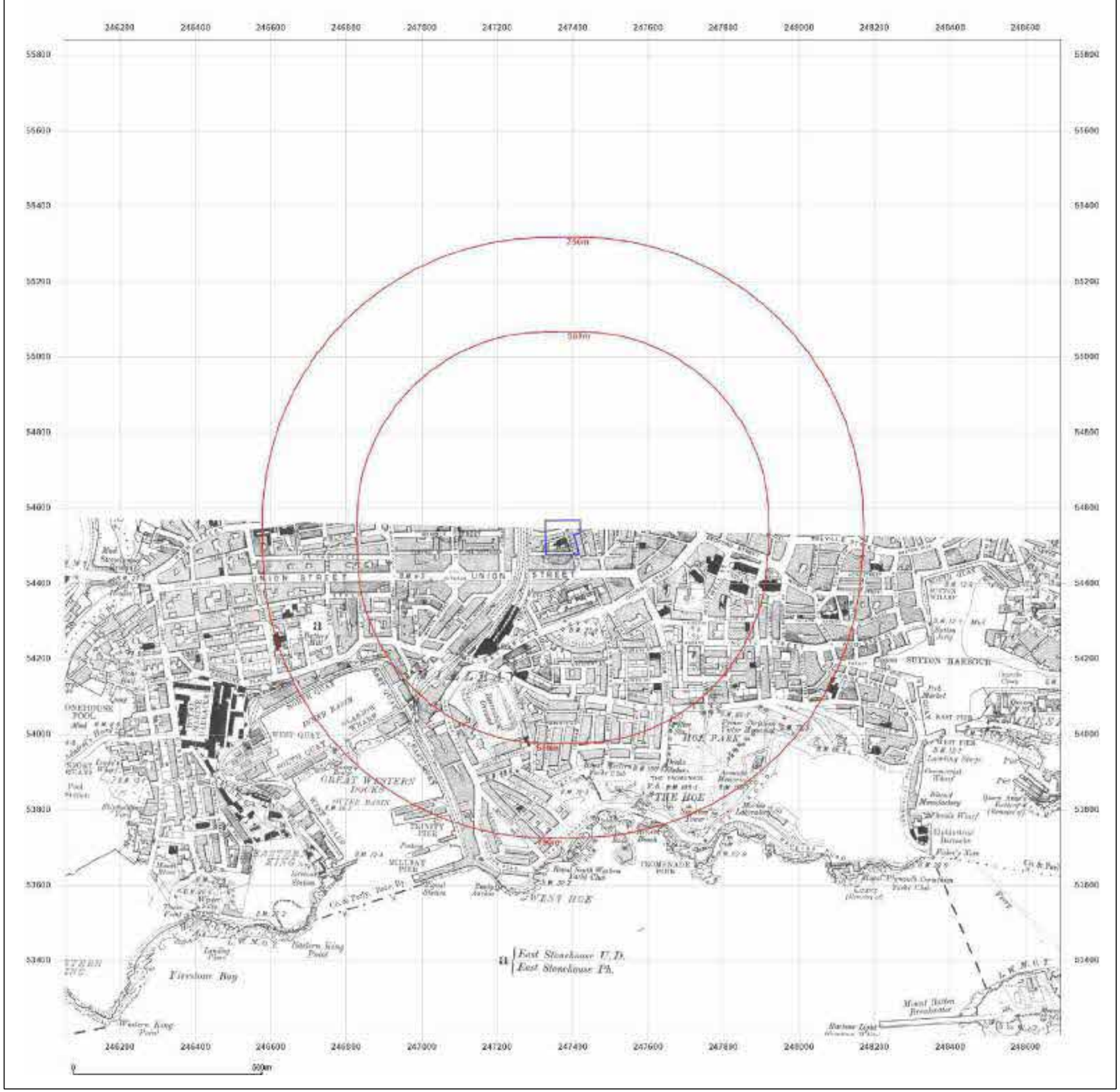

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1919**

Scale: 1:10,560

Printed at: 1:10,560

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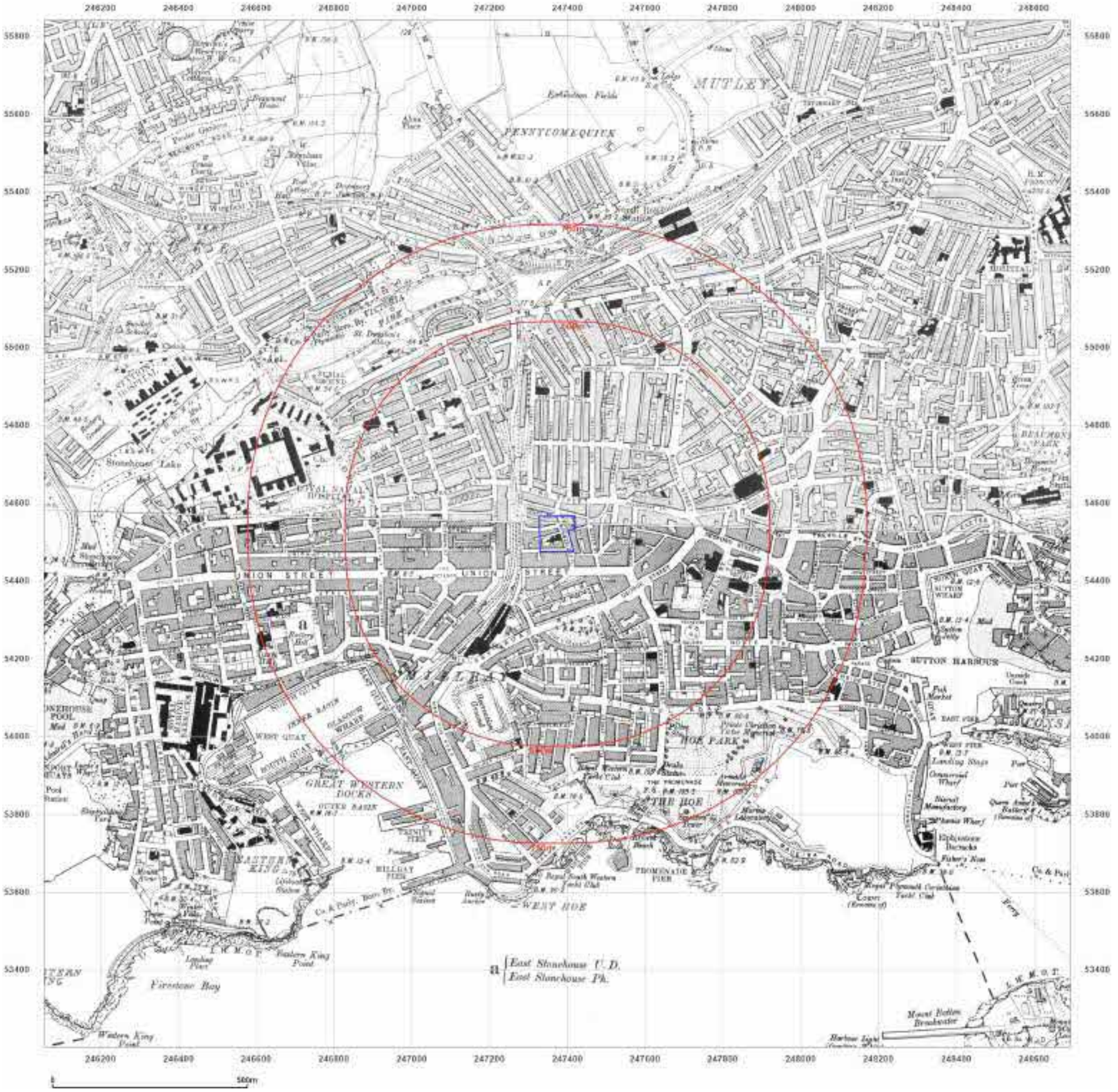

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1919-1920**

Scale: 1:10,560

Printed at: 1:10,560

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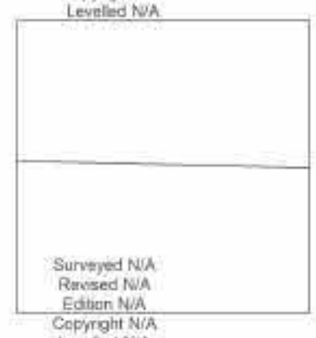
Surveyed N/A
Revised 1912
Edition 1920
Copyright N/A
Levelled N/A



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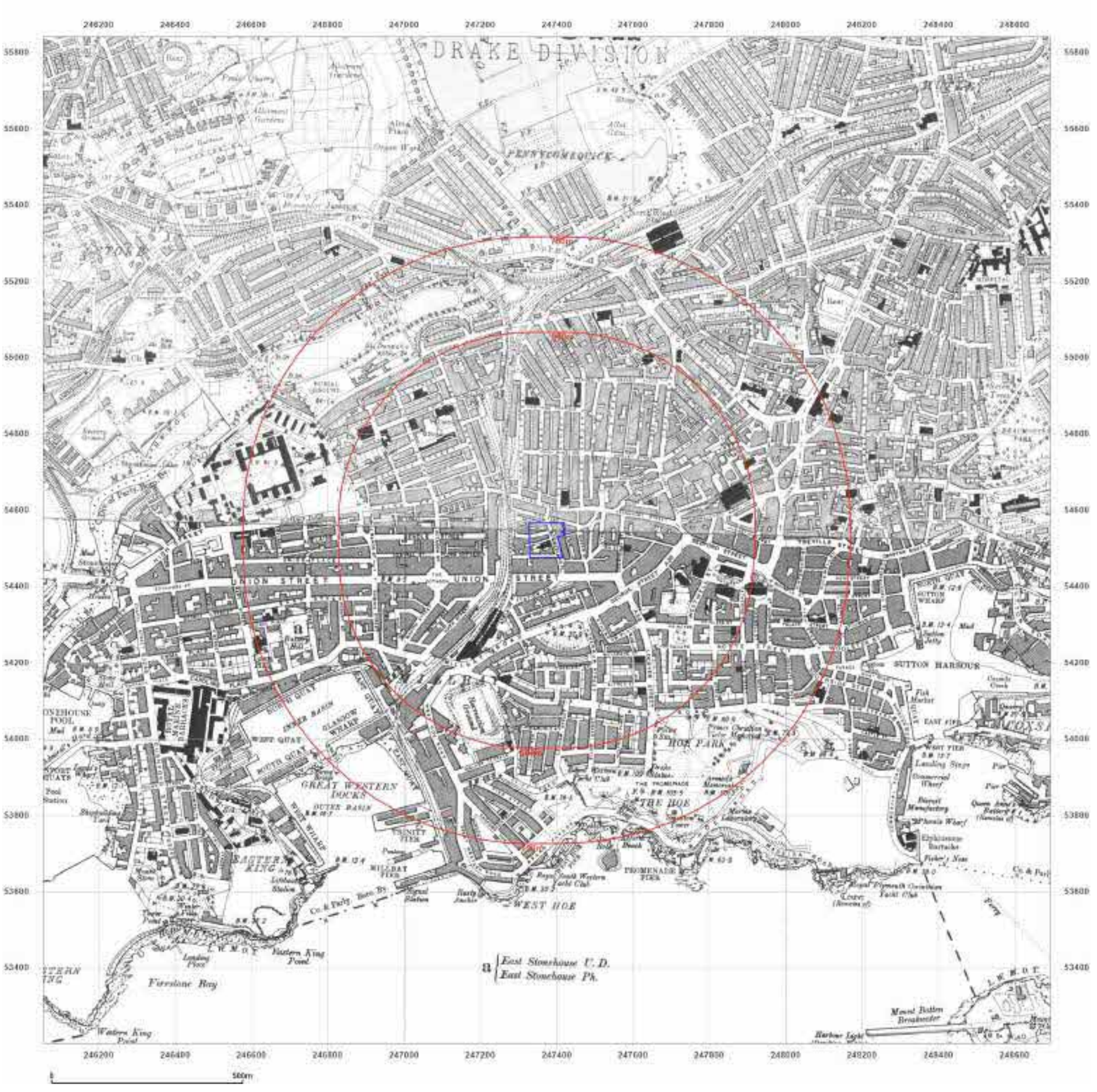

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1933-1938**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1860
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1860
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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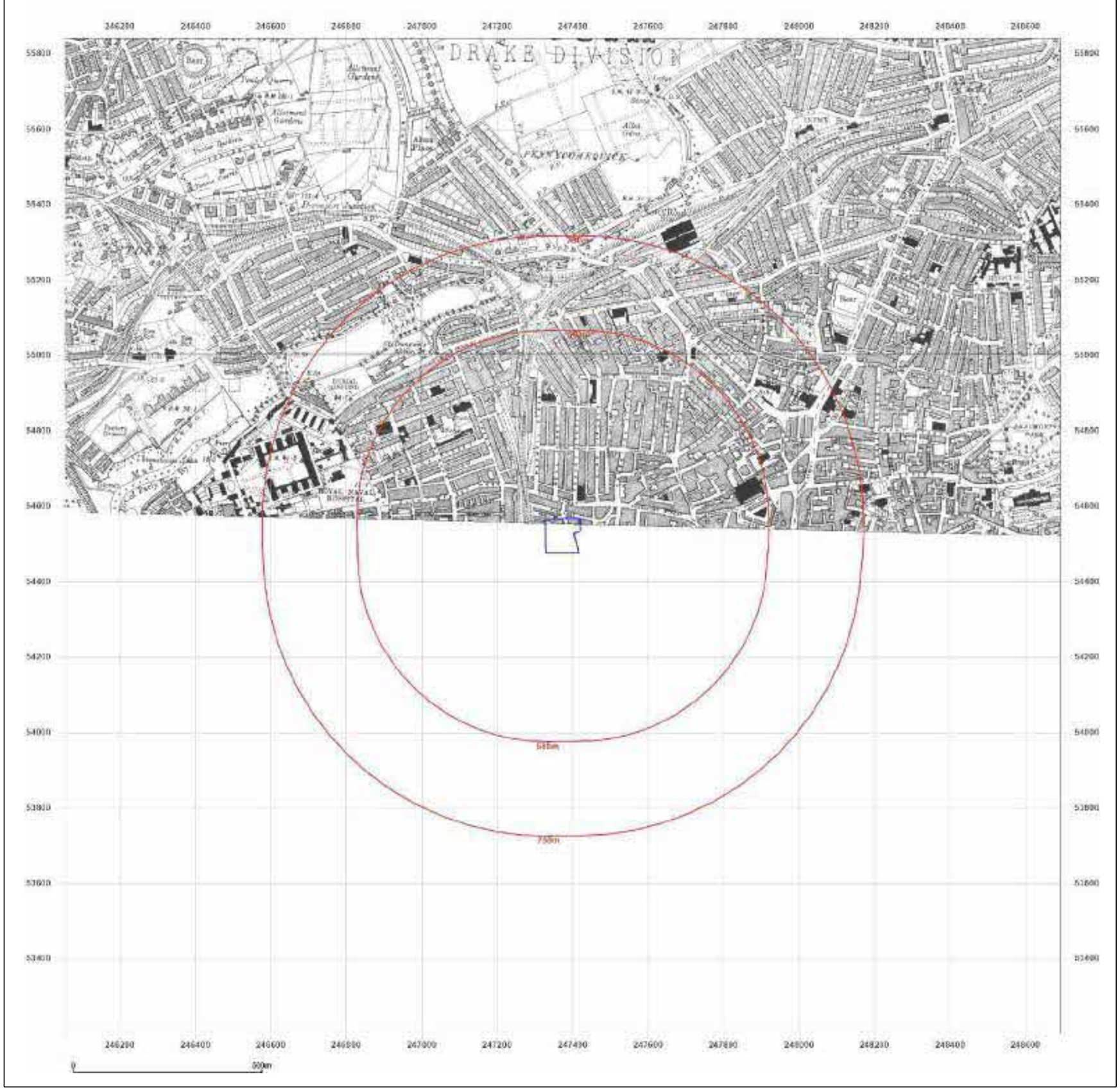

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1860
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

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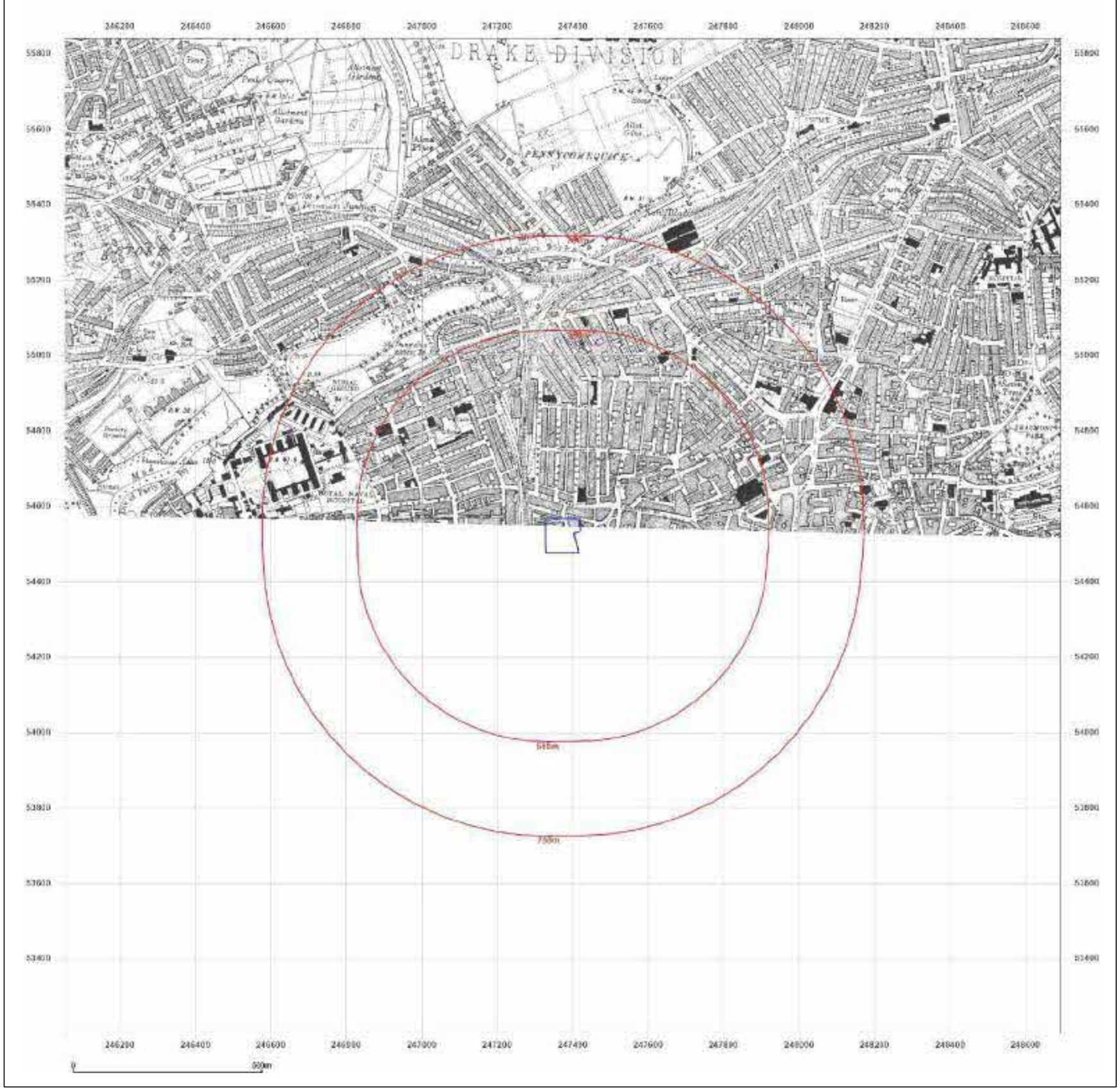

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

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Revised 1938
Edition N/A
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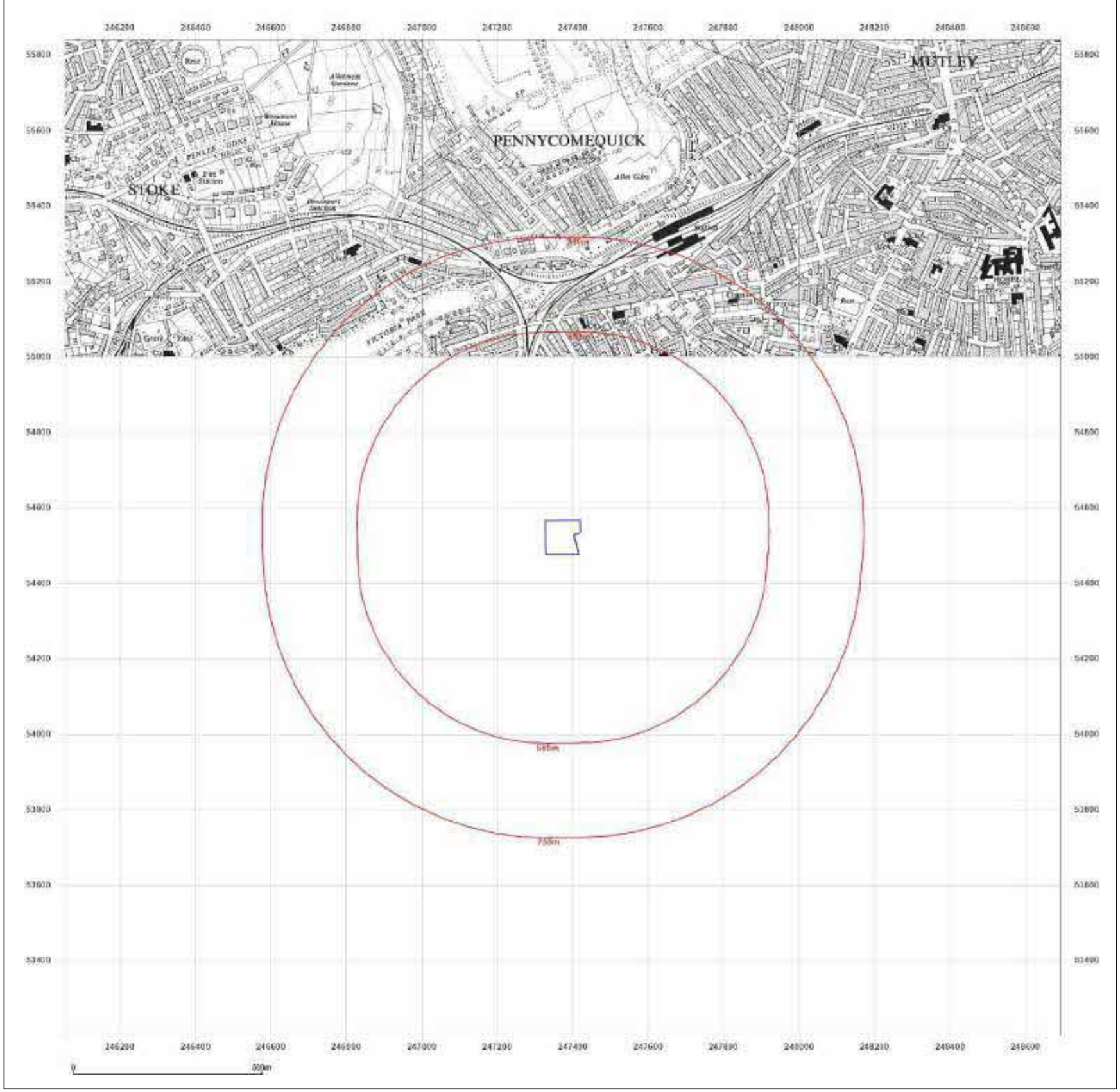

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: Provisional
Map date: **1954**
Scale: 1:10,560
Printed at: 1:10,560

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Revised 1954
Edition N/A
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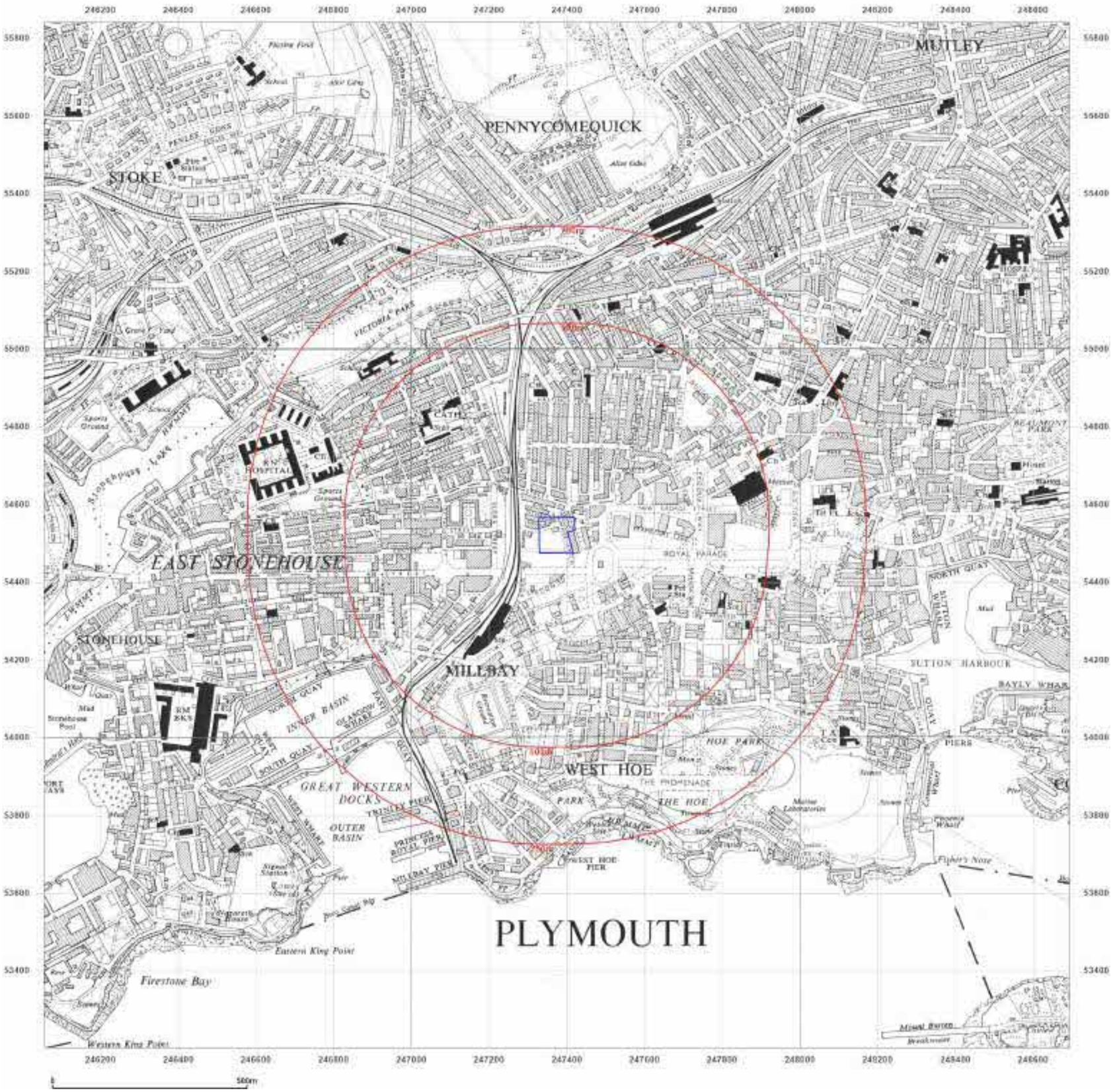

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: Provisional
Map date: **1954-1957**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1954
Revised 1955
Edition N/A
Copyright 1957
Levelled N/A

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

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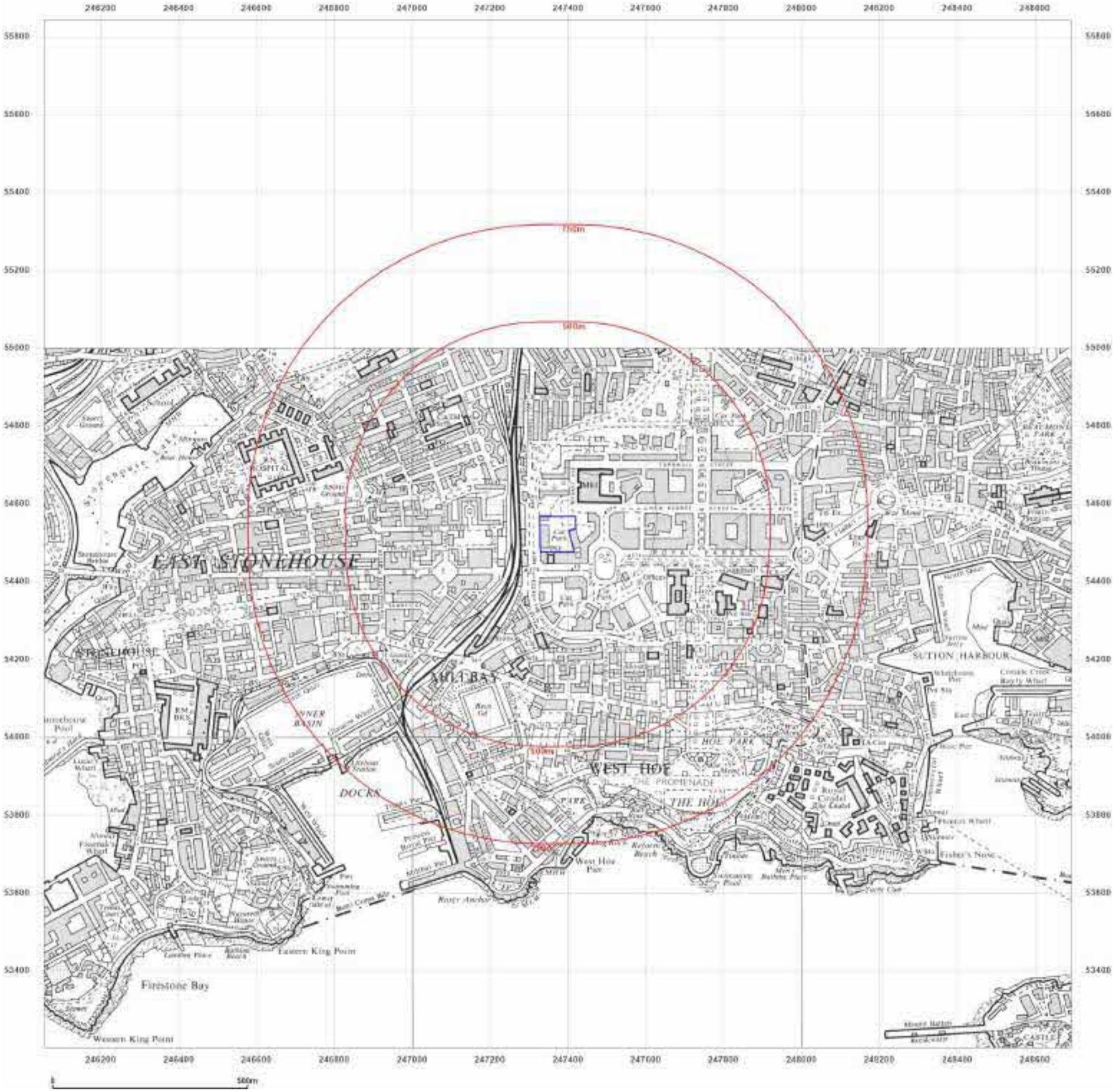

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: Provisional
Map date: **1966**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1961
Revised 1964
Edition N/A
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Production date: 22 September 2023

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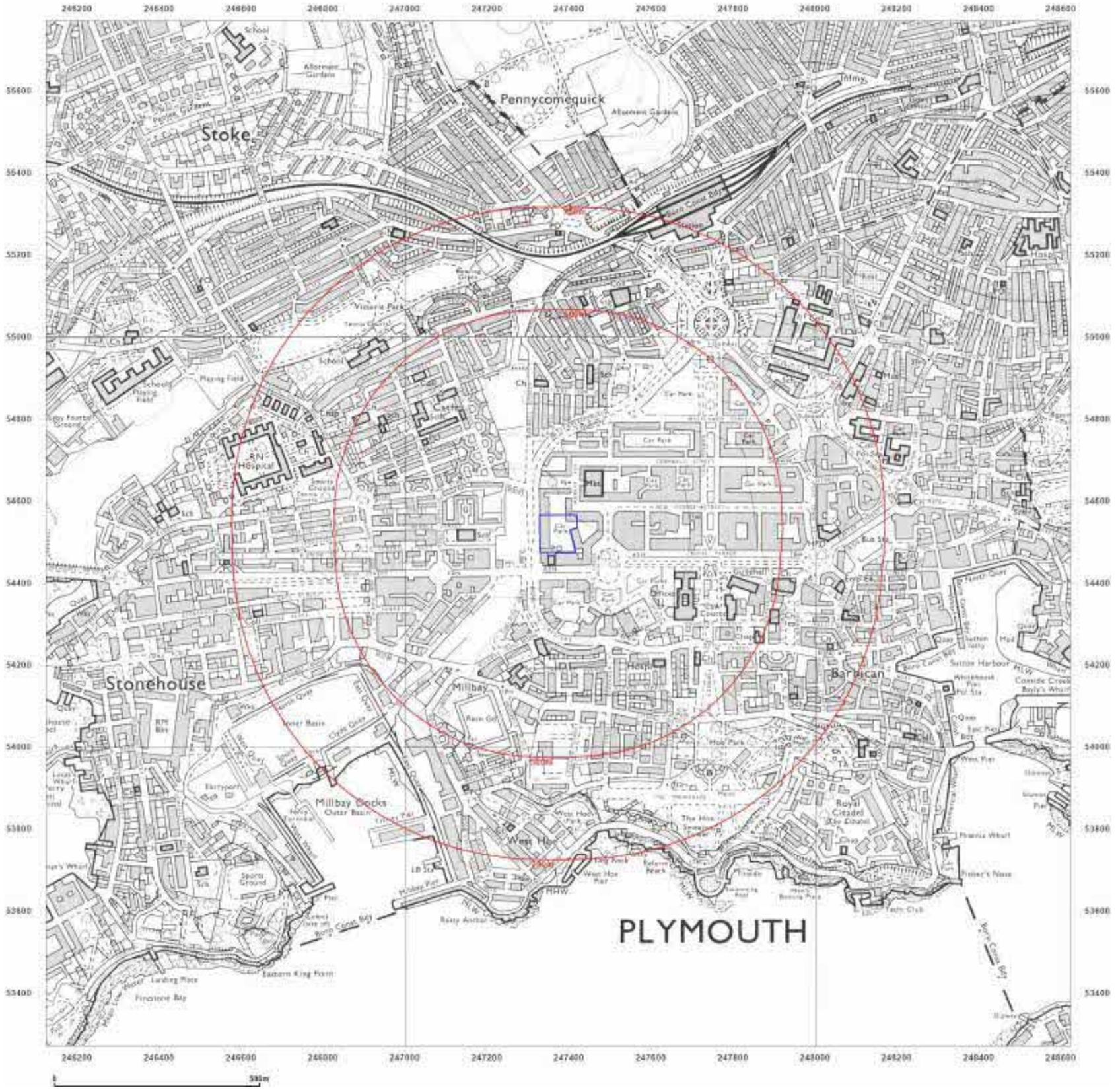

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1980-1982**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1978
Revised 1982
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Surveyed 1975
Revised 1980
Edition N/A
Copyright 1980
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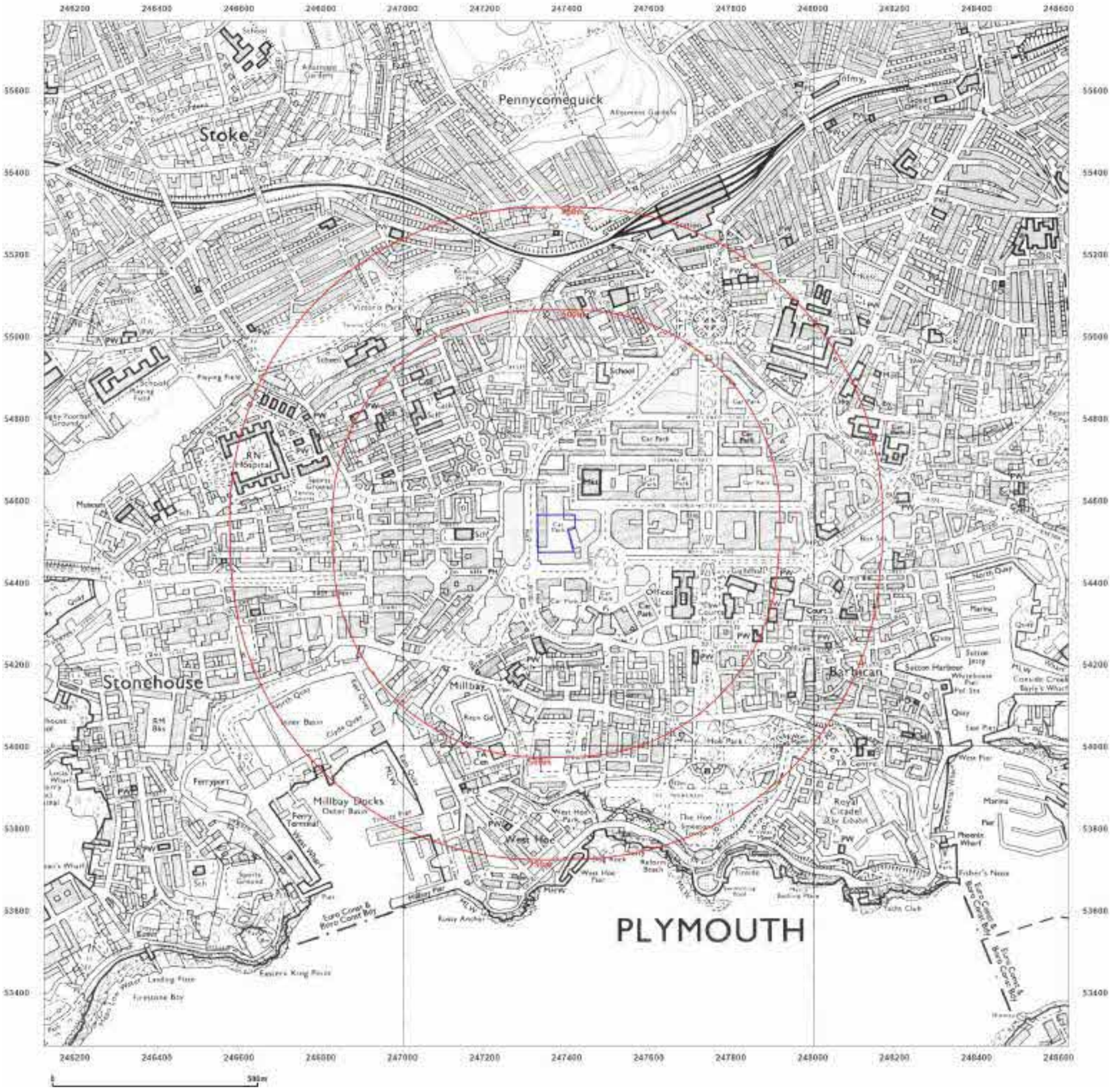

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:10,000

Printed at: 1:10,000

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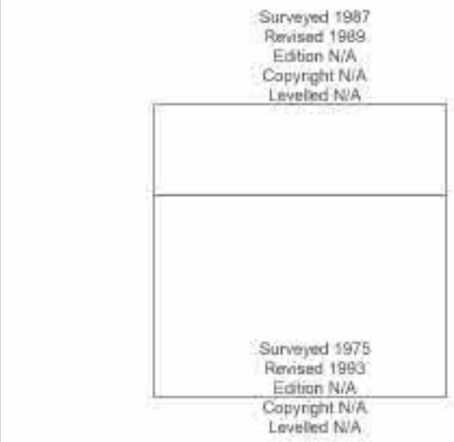

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Production date: 22 September 2023

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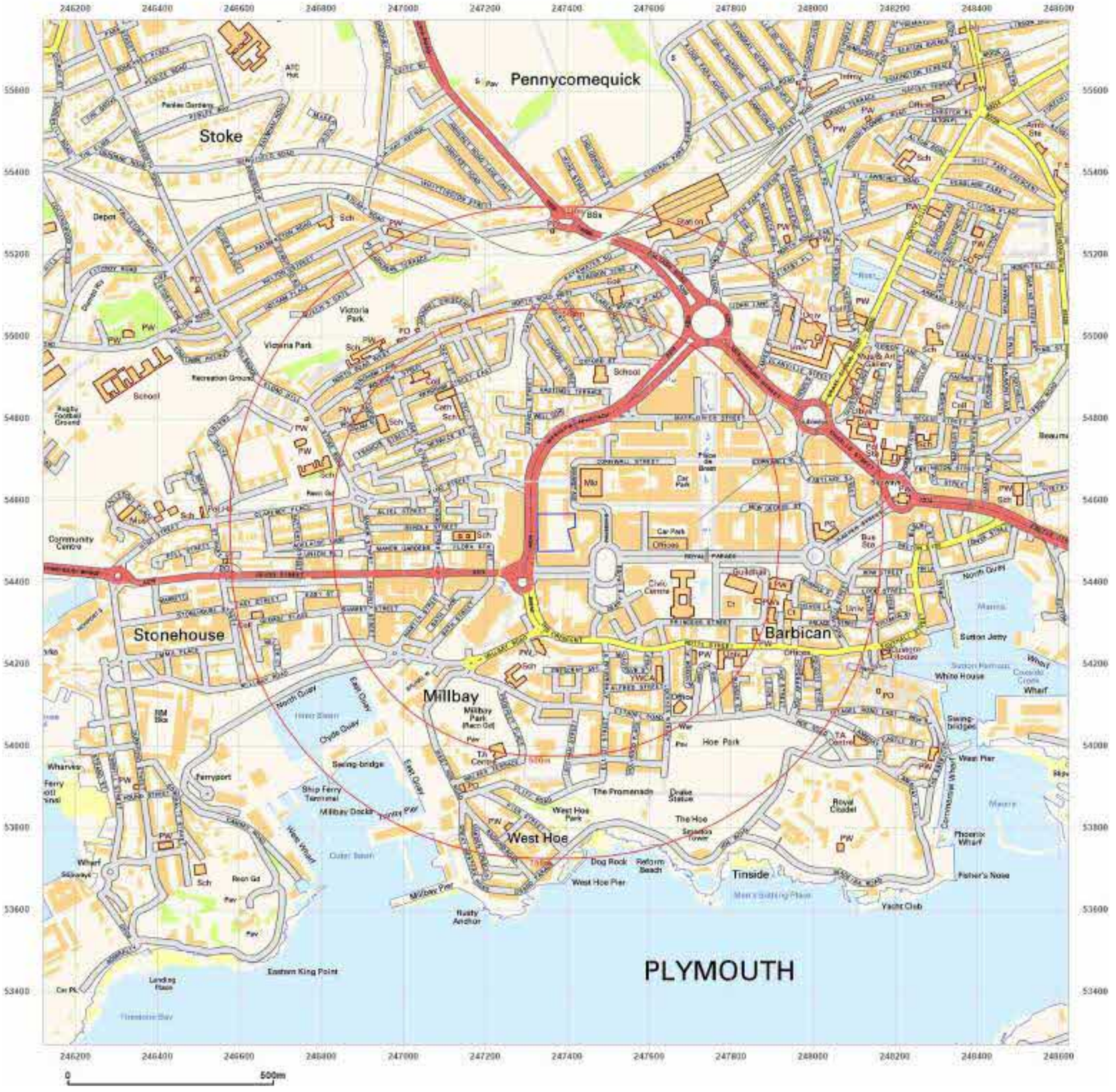

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

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

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Production date: 22 September 2023

Map legend available at:
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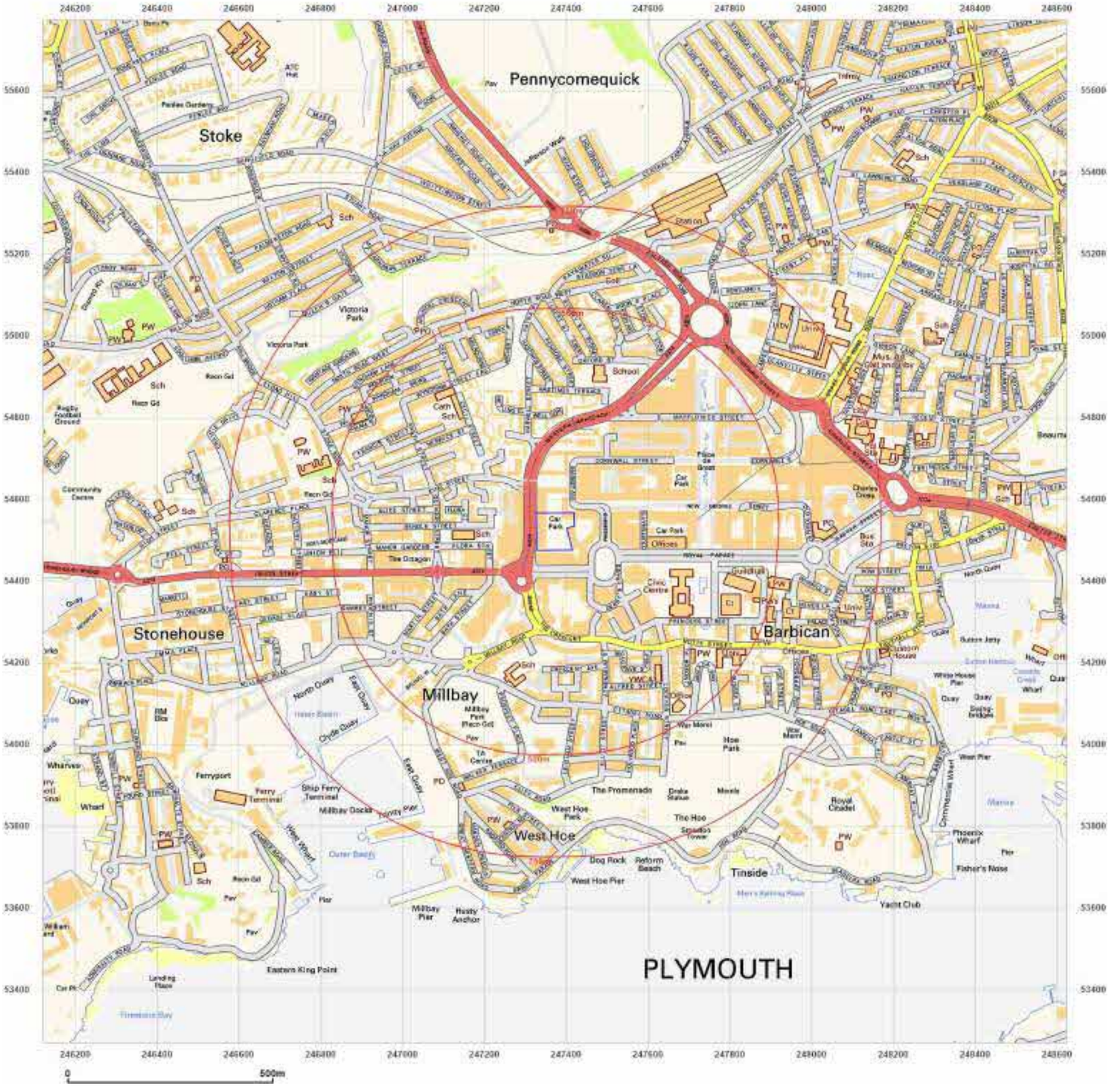

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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2010

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Production date: 22 September 2023

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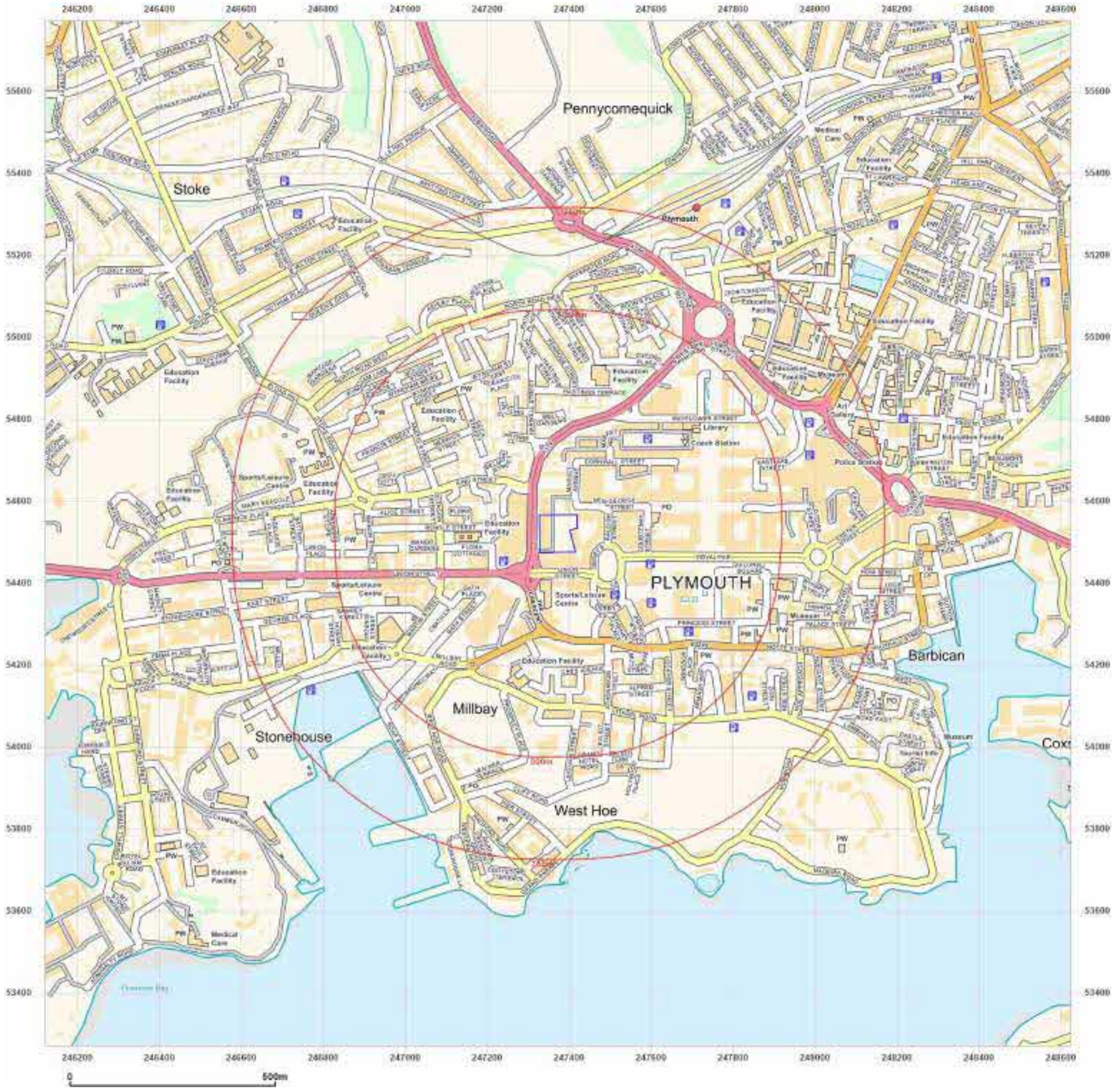

Groundsure INSIGHTS

Site Details

COLIN CAMPBELL COURT,
PLYMOUTH, PL1 1PH

Client Ref: C10120
Report Ref: HMD-33J-ZWS-SO6-J8B
Grid Ref: 247373, 54521

Map Name: National Grid

Map date: **2023**

Scale: 1:10,000

Printed at: 1:10,000

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Production date: 22 September 2023

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

COLIN CAMPBELL COURT, PLYMOUTH, PL1 1PH

Order Details

Date: 22/09/2023

Your ref: C10120

Our Ref: HMD-8UP-244-U34-SQX

Site Details

Location: 247374 054511

Area: 0.77 ha

Authority: Plymouth City Council ↗

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

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	5	24	43	-
18 >	1.2 >	Historical tanks >	0	0	4	12	-
19 >	1.3 >	Historical energy features >	0	2	11	11	-
20	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	3	0	25	27	-
23	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
24 >	2.1 >	Historical industrial land uses >	0	7	29	48	-
28 >	2.2 >	Historical tanks >	0	0	13	20	-
29 >	2.3 >	Historical energy features >	0	4	27	40	-
32	2.4	Historical petrol stations	0	0	0	0	-
32 >	2.5 >	Historical garages >	9	2	55	45	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
37	3.1	Active or recent landfill	0	0	0	0	-
37	3.2	Historical landfill (BGS records)	0	0	0	0	-
38	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
38	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
38 >	3.5 >	Historical waste sites >	0	0	0	3	-
39 >	3.6 >	Licensed waste sites >	0	0	2	0	-
39 >	3.7 >	Waste exemptions >	112	2	11	33	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
52 >	4.1 >	Recent industrial land uses >	0	1	25	-	-
54 >	4.2 >	Current or recent petrol stations >	0	0	2	1	-
54	4.3	Electricity cables	0	0	0	0	-
55	4.4	Gas pipelines	0	0	0	0	-
55	4.5	Sites determined as Contaminated Land	0	0	0	0	-

55	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
55	4.7	Regulated explosive sites	0	0	0	0	-
55	4.8	Hazardous substance storage/usage	0	0	0	0	-
56	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
56	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
56 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	2	-
56 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	5	-
57	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
57	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
58	4.15	Pollutant release to public sewer	0	0	0	0	-
58	4.16	List 1 Dangerous Substances	0	0	0	0	-
58	4.17	List 2 Dangerous Substances	0	0	0	0	-
58 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	1	-
59	4.19	Pollution inventory substances	0	0	0	0	-
59	4.20	Pollution inventory waste transfers	0	0	0	0	-
59 >	4.21 >	Pollution inventory radioactive waste >	0	0	0	1	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
61 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
63 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
64 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
64	5.5	Groundwater vulnerability- local information	None (within 0m)				
65 >	5.6 >	Groundwater abstractions >	0	0	0	0	1
66	5.7	Surface water abstractions	0	0	0	0	0
66	5.8	Potable abstractions	0	0	0	0	0
66	5.9	Source Protection Zones	0	0	0	0	-
67	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
68	6.1	Water Network (OS MasterMap)	0	0	0	-	-

68	6.2	Surface water features	0	0	0	-	-
69 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
69	6.4	WFD Surface water bodies	0	0	0	-	-
69 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
71	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
72 >	7.2 >	Historical Flood Events >	0	1	1	-	-
72	7.3	Flood Defences	0	0	0	-	-
72	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
73	7.5	Flood Storage Areas	0	0	0	-	-
74	7.6	Flood Zone 2	None (within 50m)				
74	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
75 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
77 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	5
79	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
79 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	2
80	10.4	Special Protection Areas (SPA)	0	0	0	0	0
80	10.5	National Nature Reserves (NNR)	0	0	0	0	0
80	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
81	10.7	Designated Ancient Woodland	0	0	0	0	0
81	10.8	Biosphere Reserves	0	0	0	0	0
81	10.9	Forest Parks	0	0	0	0	0
81	10.10	Marine Conservation Zones	0	0	0	0	0
81	10.11	Green Belt	0	0	0	0	0
82	10.12	Proposed Ramsar sites	0	0	0	0	0

82	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
82	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
82	10.15	Nitrate Sensitive Areas	0	0	0	0	0
83	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
84 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
85 >	10.18 >	SSSI Units >	0	0	0	0	6
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
88	11.1	World Heritage Sites	0	0	0	-	-
89	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
89	11.3	National Parks	0	0	0	-	-
89 >	11.4 >	Listed Buildings >	0	0	7	-	-
90 >	11.5 >	Conservation Areas >	0	0	2	-	-
90	11.6	Scheduled Ancient Monuments	0	0	0	-	-
90 >	11.7 >	Registered Parks and Gardens >	0	0	1	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
93	12.2	Open Access Land	0	0	0	-	-
93	12.3	Tree Felling Licences	0	0	0	-	-
93	12.4	Environmental Stewardship Schemes	0	0	0	-	-
93	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
94	13.1	Priority Habitat Inventory	0	0	0	-	-
94	13.2	Habitat Networks	0	0	0	-	-
94	13.3	Open Mosaic Habitat	0	0	0	-	-
94	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
95 >	14.1 >	10k Availability >	Identified (within 500m)				
96	14.2	Artificial and made ground (10k)	0	0	0	0	-
97	14.3	Superficial geology (10k)	0	0	0	0	-

97	14.4	Landslip (10k)	0	0	0	0	-
98	14.5	Bedrock geology (10k)	0	0	0	0	-
98	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	15.1 >	50k Availability >	Identified (within 500m)				
100 >	15.2 >	Artificial and made ground (50k) >	1	0	0	3	-
101 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
102 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
103 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
103	15.6	Landslip (50k)	0	0	0	0	-
103	15.7	Landslip permeability (50k)	None (within 50m)				
104 >	15.8 >	Bedrock geology (50k) >	4	4	8	10	-
105 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
106 >	15.10 >	Bedrock faults and other linear features (50k) >	3	1	6	6	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	16.1 >	BGS Boreholes >	0	1	26	-	-
Page	Section	Natural ground subsidence >					
110 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
111 >	17.2 >	Running sands >	Low (within 50m)				
113 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
115 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
116 >	17.5 >	Landslides >	Low (within 50m)				
118 >	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
120	18.1	BritPits	0	0	0	0	-
121 >	18.2 >	Surface ground workings >	0	0	2	-	-
121	18.3	Underground workings	0	0	0	0	0
121	18.4	Underground mining extents	0	0	0	0	-
121	18.5	Historical Mineral Planning Areas	0	0	0	0	-

122 >	18.6 >	Non-coal mining >	1	0	0	1	0
122	18.7	JPB mining areas	None (within 0m)				
122	18.8	The Coal Authority non-coal mining	0	0	0	0	-
123 >	18.9 >	Researched mining >	0	0	0	2	-
123	18.10	Mining record office plans	0	0	0	0	-
123	18.11	BGS mine plans	0	0	0	0	-
123	18.12	Coal mining	None (within 0m)				
124	18.13	Brine areas	None (within 0m)				
124	18.14	Gypsum areas	None (within 0m)				
124 >	18.15 >	Tin mining >	Identified (within 0m)				
124	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
125 >	19.1 >	Natural cavities >	0	0	1	0	-
126 >	19.2 >	Mining cavities >	0	0	0	0	1
126	19.3	Reported recent incidents	0	0	0	0	-
126	19.4	Historical incidents	0	0	0	0	-
127 >	19.5 >	National karst database >	0	0	2	0	-
Page	Section	Radon >					
128 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
130 >	21.1 >	BGS Estimated Background Soil Chemistry >	9	6	-	-	-
131	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
131	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
132	22.1	Underground railways (London)	0	0	0	-	-
132	22.2	Underground railways (Non-London)	0	0	0	-	-
133	22.3	Railway tunnels	0	0	0	-	-
133 >	22.4 >	Historical railway and tunnel features >	0	24	12	-	-
134	22.5	Royal Mail tunnels	0	0	0	-	-

135	22.6	Historical railways	0	0	0	-	-
135	22.7	Railways	0	0	0	-	-
135	22.8	Crossrail 1	0	0	0	0	-
135	22.9	Crossrail 2	0	0	0	0	-
135	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 06/08/2022

Site Area: 0.77ha

Recent site history - 2019 aerial photograph

Capture Date: 04/07/2019

Site Area: 0.77ha

Recent site history - 2015 aerial photograph

Capture Date: 20/04/2015

Site Area: 0.77ha

Recent site history - 2013 aerial photograph

Capture Date: 08/06/2013

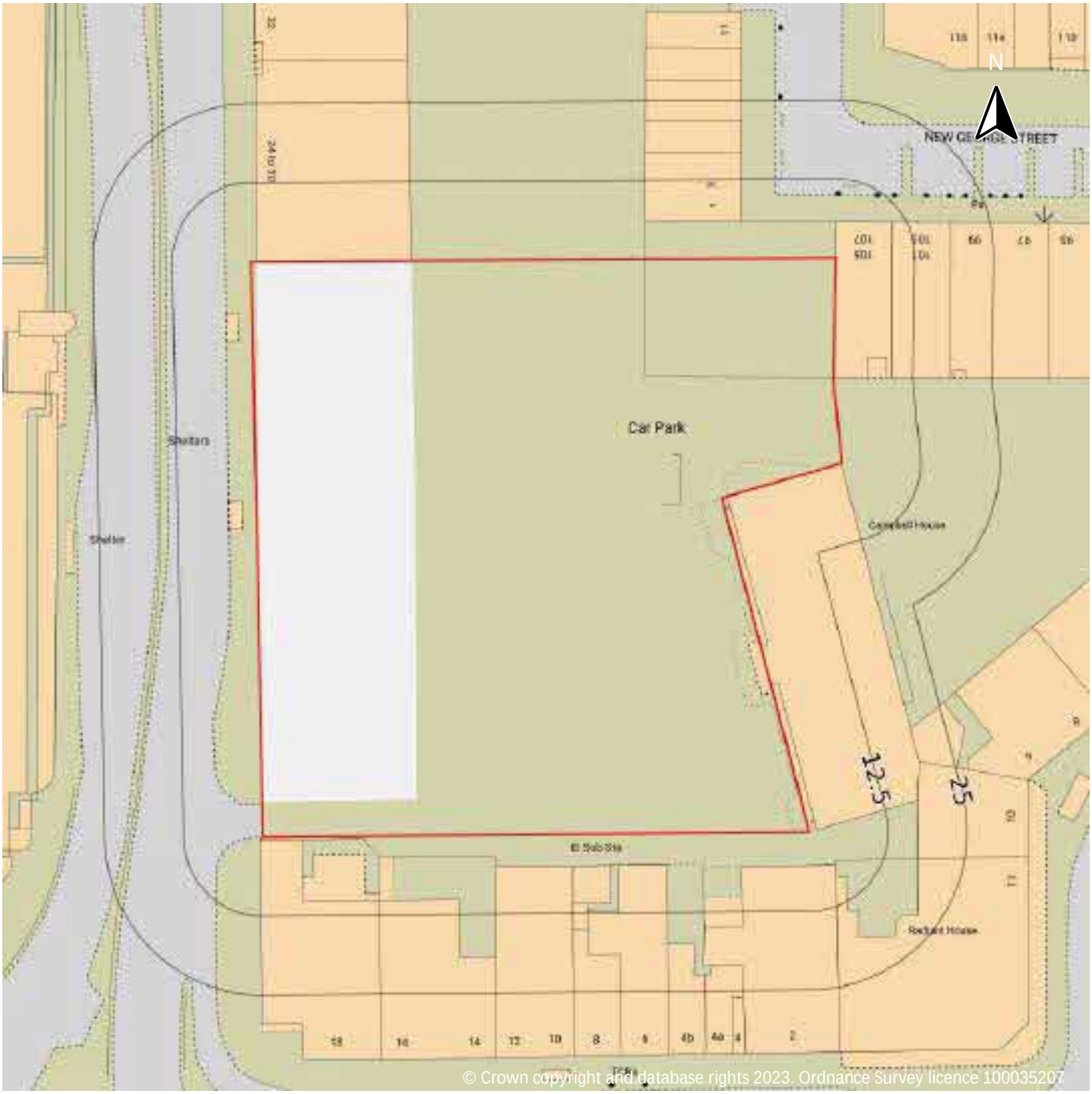
Site Area: 0.77ha

Recent site history - 1999 aerial photograph

Capture Date: 27/07/1999

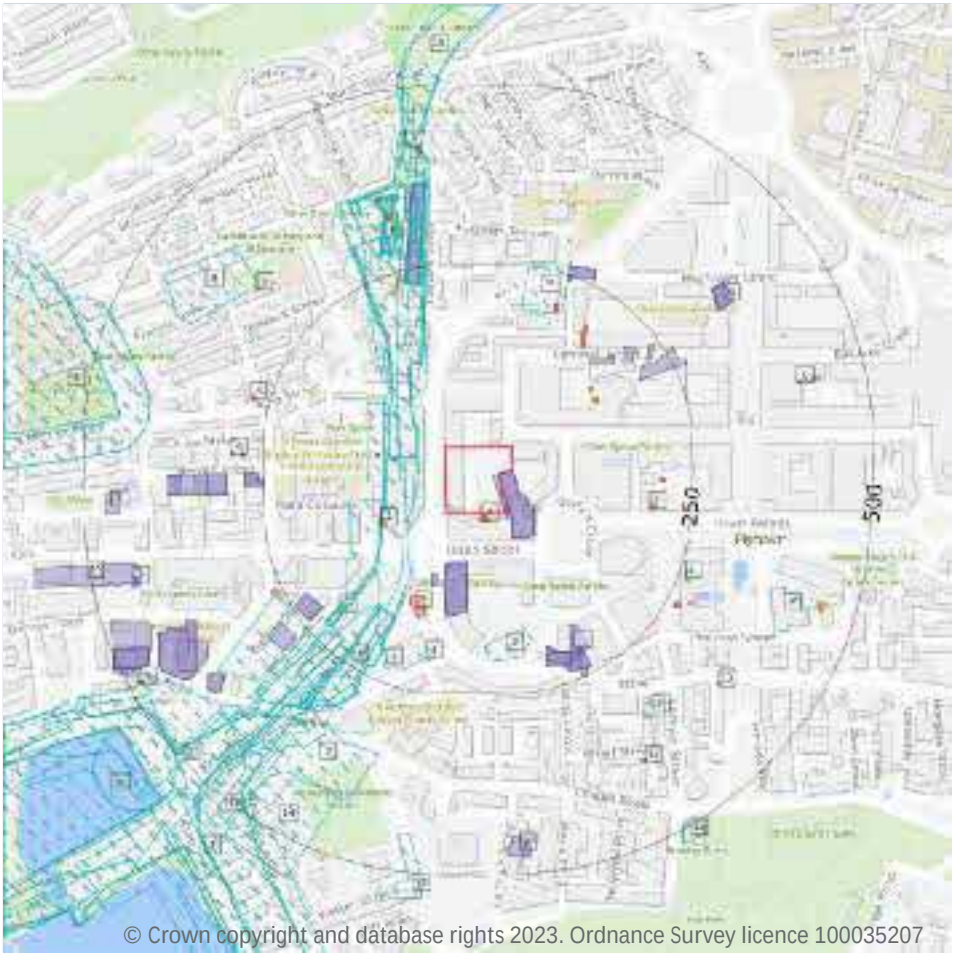
Site Area: 0.77ha

OS MasterMap site plan



Site Area: 0.77ha

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	72

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
B	36m W	Railway Sidings	1954 - 1966	429287

ID	Location	Land use	Dates present	Group ID
C	36m W	Railway Sidings	1938	401853
C	39m NW	Railway Sidings	1938	422412
C	39m NW	Railway Sidings	1907 - 1920	428134
D	39m W	Railway Sidings	1919	426779
D	54m W	Railway Sidings	1938	417544
B	61m W	Nursery	1856	388003
C	63m W	Railway Sidings	1933	403824
C	79m NW	Railway Sidings	1856	412966
D	89m W	Railway Sidings	1905	402853
C	138m NW	Railway Sidings	1933	407255
C	145m NW	Unspecified Commercial/Industrial	1933	395474
G	153m SW	Railway Building	1954	407430
H	157m SW	Railway Station	1954	417475
H	158m SW	Railway Sidings	1856	426104
H	159m SW	Railway Station	1938	420640
H	159m SW	Unspecified Station	1919	385829
2	163m S	Unspecified Pit	1954	380357
3	183m S	Infirmary	1856	401397
F	184m N	Nursery	1856	388002
H	187m SW	Railway Building	1919	410758
4	212m SW	Railway Building	1856	387428
H	224m SW	Railway Station	1966	423343
C	227m N	Railway Building	1933 - 1938	414140
H	229m SW	Railway Station	1856 - 1905	414237
C	229m N	Railway Buildings	1907 - 1920	414977
C	232m N	Railway Building	1938	427249
H	232m SW	Railway Building	1954 - 1966	410865
C	232m N	Railway Building	1954 - 1966	417311

ID	Location	Land use	Dates present	Group ID
H	250m SW	Gas Works	1856	385389
L	257m SE	Police Station	1954	396949
H	259m SW	Railway Building	1905	413850
C	261m NW	Railway Buildings	1907 - 1920	406079
C	268m N	Railway Building	1966	421268
C	271m N	Railway Building	1856	409652
C	273m N	Railway Buildings	1938	406409
C	278m NW	Railway Buildings	1954	411386
C	279m N	Railway Building	1938	402978
C	300m N	Railway Building	1856	419263
H	311m SW	Railway Building	1919	387421
6	324m SE	Hospital	1978	400380
C	326m N	Railway Buildings	1966	420245
7	334m SW	Barracks	1856	398413
C	342m N	Railway Building	1938	387437
9	344m NW	Iron Foundry	1856	400499
10	345m SW	Soap Works	1856	399520
C	346m NW	Railway Building	1938	401590
C	346m NW	Railway Building	1907 - 1920	415490
C	347m NW	Railway Building	1938	417519
N	350m SW	Docks	1919	407041
H	352m SW	Railway Building	1954	413307
N	365m SW	Railway Sidings	1954	404600
N	365m SW	Railway Sidings	1966	417043
P	376m E	Police Station	1966	396950
D	377m SW	Railway Buildings	1966	382145
H	381m SW	Railway Building	1905	387422
13	410m SW	Docks	1856	420050

ID	Location	Land use	Dates present	Group ID
S	412m W	Hospital	1920	412040
S	412m W	Hospital	1907	425175
14	413m SW	Disused Barracks	1905	385803
R	416m N	Railway Building	1938	387436
T	423m SW	Docks	1938	423315
16	433m N	Railway Sidings	1954 - 1957	413893
17	446m S	Old Barracks	1856	385155
S	451m W	Hospital	1938	427880
S	453m W	Hospital	1938	416465
D	468m SW	Goods Shed	1966	390084
N	480m SW	Railway Sidings	1978	424088
18	492m SE	Police Station	1919 - 1938	415848
T	496m SW	Docks	1966 - 1978	414728
D	498m SW	Unspecified Depot	1966	385080
D	499m SW	Quay	1993	411858

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	16

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

Features are displayed on the Past land use map on page 15 >

ID	Location	Land use	Dates present	Group ID
1	85m SW	Unspecified Tank	1950 - 1964	52766
C	225m N	Tanks	1868	47553
F	231m NE	Unspecified Tank	1868	44994

ID	Location	Land use	Dates present	Group ID
H	247m SW	Unspecified Tank	1952 - 1959	51678
H	259m SW	Unspecified Tank	1964	44840
K	291m W	Unspecified Tank	1895 - 1933	50158
K	293m W	Unspecified Tank	1907	49282
F	295m N	Unspecified Tank	1868	44993
C	322m N	Tanks	1959	53103
C	325m N	Tanks	1960 - 1965	48515
8	336m NW	Unspecified Tank	1895	50649
F	342m N	Unspecified Tank	1868	44987
C	352m N	Unspecified Tank	1950 - 1955	50520
11	373m SE	Unspecified Tank	1963	44841
Q	405m E	Unspecified Tank	1868	44996
D	436m SW	Unspecified Tank	1868	44836

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	24

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

Features are displayed on the Past land use map on page 15 >

ID	Location	Land use	Dates present	Group ID
A	5m S	Electricity Substation	1971	26653
A	5m S	Electricity Substation	1982 - 1992	28393
B	90m W	Electricity Substation	1992	26361
B	91m W	Electricity Substation	1989	26324
E	121m SW	Electricity Substation	1971 - 1992	27563

ID	Location	Land use	Dates present	Group ID
F	127m NE	Electricity Substation	1969 - 1988	28543
F	131m NE	Electricity Substation	1990	23738
F	169m NE	Electricity Substation	1988 - 1989	29872
F	189m NE	Electricity Substation	1969 - 1990	26985
J	195m E	Electricity Substation	1950 - 1951	27980
F	198m NE	Electricity Substation	1982 - 1992	27737
J	205m E	Electricity Substation	1952 - 1955	26687
J	206m E	Electricity Substation	1955	26747
G	253m SW	Electricity Substation	1950 - 1955	30008
L	261m SE	Electricity Substation	1951 - 1955	27588
5	269m W	Electricity Substation	1950 - 1992	29306
K	277m W	Electricity Substation	1950 - 1955	27297
L	278m SE	Electricity Substation	1950 - 1952	28770
12	387m SE	Electricity Substation	1970 - 1992	25203
R	407m N	Electricity Substation	1992	25894
R	408m N	Electricity Substation	1982 - 1989	27626
Q	424m E	Electricity Substation	1969 - 1990	28289
P	446m E	Electricity Substation	1950 - 1955	26365
V	478m SW	Electricity Substation	1974 - 1994	29128

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	55

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

Features are displayed on the Past land use map on page 15 >

ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1955 - 1959	9233
A	On site	Garage	1950 - 1971	9875
A	On site	Garage	1960 - 1965	9921
E	69m S	Garage	1971	8304
E	69m S	Garage	1964	8555
E	69m S	Garage	1982 - 1992	9107
E	85m S	Garage	1950	8048
F	156m NE	Garage	1952 - 1954	9738
I	176m SE	Garage	1970	9804
F	191m NE	Garage	1952 - 1954	9270
I	192m SE	Garage	1964	9020
I	192m SE	Garage	1963	9021
I	192m SE	Garage	1971	9985
F	197m NE	Garage	1952 - 1954	9238
I	201m SE	Garage	1982 - 1992	9565
I	211m SE	Garage	1987 - 1992	9133
I	214m SE	Garage	1950 - 1958	9743
I	215m SE	Garage	1955 - 1959	9348
G	216m SW	Repair Depot	1971	8775
G	217m SW	Repair Depot	1982 - 1987	9803
F	221m NE	Garage	1951 - 1952	9999

ID	Location	Land use	Dates present	Group ID
I	223m SE	Garage	1950	8313
C	231m N	Carriage Shed	1950 - 1965	9481
C	231m N	Carriage Shed	1951 - 1959	9390
F	242m NE	Garage	1950 - 1959	10001
F	248m NE	Garage	1955 - 1959	9593
K	250m W	Garage	1950 - 1982	9262
K	250m W	Garage	1955 - 1959	9194
K	250m W	Garage	1983	9422
H	270m SW	Garage	1964	8047
K	302m W	Garage	1950 - 1965	9477
K	303m W	Garage	1959	8738
K	327m W	Garage	1949 - 1989	9962
M	343m NE	Garage	1951 - 1952	9654
M	343m NE	Garage	1954 - 1955	9090
M	344m NE	Garage	1955	8287
K	364m W	Garage	1971	8323
K	364m W	Garage	1997 - 1998	9548
O	373m SW	Garage	1966	9022
O	378m SW	Garage	1974 - 1994	9774
D	381m SW	Garage	1982 - 1992	9070
D	381m SW	Garage	1964 - 1971	9942
O	393m SW	Garage	1950	8333
15	430m W	Garage	1994	8291
U	437m W	Garage	1955	8468
U	437m W	Garage	1950	8794
V	437m SW	Garage	1974 - 1994	9485
W	448m S	Garages	1955	8804
X	450m W	Garage	1950 - 1955	9685

ID	Location	Land use	Dates present	Group ID
X	451m W	Garage	1949	9050
V	452m SW	Garage	1955	8917
V	452m SW	Garage	1959 - 1966	9926
V	453m SW	Garage	1959	8900
W	456m S	Garages	1959	8650
W	457m S	Garages	1950 - 1958	9161

This data is sourced from Ordnance Survey / Groundsure.

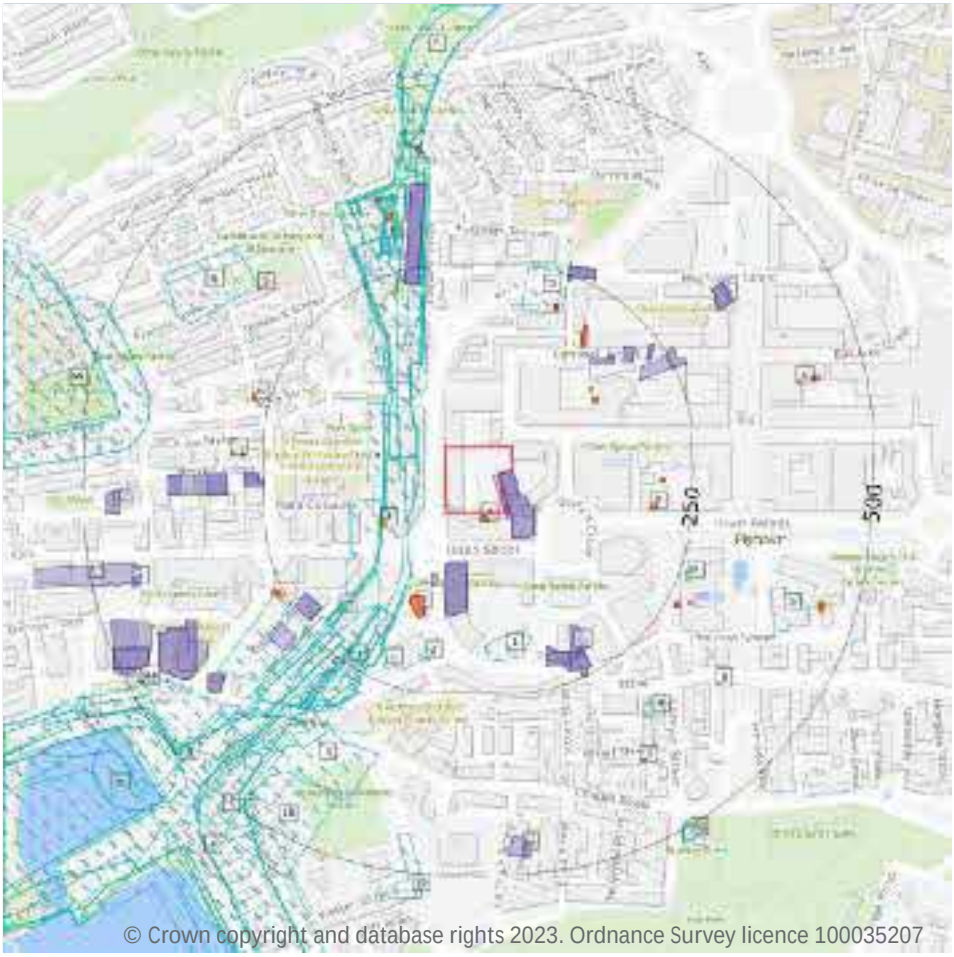
1.6 Historical military land

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	84

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

Features are displayed on the Past land use - un-grouped map on page 24 >

ID	Location	Land Use	Date	Group ID
B	36m W	Railway Sidings	1966	429287
B	36m W	Railway Sidings	1954	429287
C	36m W	Railway Sidings	1938	401853

ID	Location	Land Use	Date	Group ID
C	39m NW	Railway Sidings	1920	428134
C	39m NW	Railway Sidings	1907	428134
C	39m NW	Railway Sidings	1938	422412
D	39m W	Railway Sidings	1919	426779
D	54m W	Railway Sidings	1938	417544
B	61m W	Nursery	1856	388003
C	63m W	Railway Sidings	1933	403824
C	79m NW	Railway Sidings	1856	412966
D	89m W	Railway Sidings	1905	402853
C	138m NW	Railway Sidings	1933	407255
C	145m NW	Unspecified Commercial/Industrial	1933	395474
H	153m SW	Railway Building	1954	407430
I	157m SW	Railway Station	1954	417475
I	158m SW	Railway Sidings	1856	426104
I	159m SW	Railway Station	1938	420640
I	159m SW	Unspecified Station	1919	385829
1	163m S	Unspecified Pit	1954	380357
2	183m S	Infirmary	1856	401397
G	184m N	Nursery	1856	388002
I	187m SW	Railway Building	1919	410758
3	212m SW	Railway Building	1856	387428
I	224m SW	Railway Station	1966	423343
C	227m N	Railway Building	1938	414140
C	229m N	Railway Building	1933	414140
I	229m SW	Railway Station	1905	414237
C	229m N	Railway Buildings	1920	414977
C	229m N	Railway Buildings	1907	414977
C	232m N	Railway Building	1938	427249

ID	Location	Land Use	Date	Group ID
I	232m SW	Railway Building	1966	410865
I	232m SW	Railway Building	1954	410865
C	232m N	Railway Building	1966	417311
C	232m N	Railway Building	1954	417311
I	233m SW	Railway Station	1856	414237
I	250m SW	Gas Works	1856	385389
M	257m SE	Police Station	1954	396949
I	259m SW	Railway Building	1905	413850
C	261m NW	Railway Buildings	1920	406079
C	261m NW	Railway Buildings	1907	406079
C	268m N	Railway Building	1966	421268
C	271m N	Railway Building	1856	409652
C	273m N	Railway Buildings	1938	406409
C	278m NW	Railway Buildings	1954	411386
C	279m N	Railway Building	1938	402978
C	300m N	Railway Building	1856	419263
I	311m SW	Railway Building	1919	387421
4	324m SE	Hospital	1978	400380
C	326m N	Railway Buildings	1966	420245
5	334m SW	Barracks	1856	398413
C	342m N	Railway Building	1938	387437
6	344m NW	Iron Foundry	1856	400499
7	345m SW	Soap Works	1856	399520
C	346m NW	Railway Building	1920	415490
C	346m NW	Railway Building	1907	415490
C	346m NW	Railway Building	1938	401590
C	347m NW	Railway Building	1938	417519
Q	350m SW	Docks	1919	407041

ID	Location	Land Use	Date	Group ID
Q	350m SW	Docks	1919	407041
I	352m SW	Railway Building	1954	413307
Q	365m SW	Railway Sidings	1966	417043
Q	365m SW	Railway Sidings	1954	404600
S	376m E	Police Station	1966	396950
D	377m SW	Railway Buildings	1966	382145
I	381m SW	Railway Building	1905	387422
9	410m SW	Docks	1856	420050
W	412m W	Hospital	1920	412040
W	412m W	Hospital	1907	425175
10	413m SW	Disused Barracks	1905	385803
V	416m N	Railway Building	1938	387436
X	423m SW	Docks	1938	423315
Y	433m N	Railway Sidings	1954	413893
Y	433m N	Railway Sidings	1957	413893
12	446m S	Old Barracks	1856	385155
W	451m W	Hospital	1938	427880
W	453m W	Hospital	1938	416465
D	468m SW	Goods Shed	1966	390084
13	480m SW	Railway Sidings	1978	424088
AD	492m SE	Police Station	1919	415848
AD	493m SE	Police Station	1938	415848
X	496m SW	Docks	1966	414728
D	498m SW	Unspecified Depot	1966	385080
D	499m SW	Quay	1993	411858

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	33

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 24 >

ID	Location	Land Use	Date	Group ID
F	85m SW	Unspecified Tank	1959	52766
F	85m SW	Unspecified Tank	1955	52766
F	85m SW	Unspecified Tank	1951	52766
F	85m SW	Unspecified Tank	1958	52766
F	85m SW	Unspecified Tank	1950	52766
F	85m SW	Unspecified Tank	1964	52766
F	85m SW	Unspecified Tank	1952	52766
C	225m N	Tanks	1868	47553
G	231m NE	Unspecified Tank	1868	44994
I	247m SW	Unspecified Tank	1959	51678
I	247m SW	Unspecified Tank	1955	51678
I	248m SW	Unspecified Tank	1958	51678
I	248m SW	Unspecified Tank	1952	51678
I	259m SW	Unspecified Tank	1964	44840
L	291m W	Unspecified Tank	1914	50158
L	291m W	Unspecified Tank	1933	50158
L	292m W	Unspecified Tank	1895	50158
L	292m W	Unspecified Tank	1895	50158
L	293m W	Unspecified Tank	1907	49282
G	295m N	Unspecified Tank	1868	44993
C	322m N	Tanks	1959	53103
C	325m N	Tanks	1960	48515
C	325m N	Tanks	1965	48515

ID	Location	Land Use	Date	Group ID
O	336m NW	Unspecified Tank	1895	50649
O	336m NW	Unspecified Tank	1895	50649
G	342m N	Unspecified Tank	1868	44987
C	352m N	Unspecified Tank	1955	50520
C	352m N	Unspecified Tank	1951	50520
C	352m N	Unspecified Tank	1953	50520
C	352m N	Unspecified Tank	1950	50520
8	373m SE	Unspecified Tank	1963	44841
U	405m E	Unspecified Tank	1868	44996
D	436m SW	Unspecified Tank	1868	44836

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	71

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 24 >

ID	Location	Land Use	Date	Group ID
A	5m S	Electricity Substation	1971	26653
A	5m S	Electricity Substation	1982	28393
A	5m S	Electricity Substation	1987	28393
A	5m S	Electricity Substation	1992	28393
B	90m W	Electricity Substation	1992	26361
B	91m W	Electricity Substation	1989	26324
E	121m SW	Electricity Substation	1971	27563
E	121m SW	Electricity Substation	1982	27563
E	121m SW	Electricity Substation	1987	27563
E	121m SW	Electricity Substation	1992	27563

ID	Location	Land Use	Date	Group ID
G	127m NE	Electricity Substation	1988	28543
G	127m NE	Electricity Substation	1988	28543
G	129m NE	Electricity Substation	1969	28543
G	131m NE	Electricity Substation	1990	23738
G	169m NE	Electricity Substation	1988	29872
G	169m NE	Electricity Substation	1988	29872
G	169m NE	Electricity Substation	1989	29872
G	189m NE	Electricity Substation	1969	26985
G	189m NE	Electricity Substation	1990	26985
K	195m E	Electricity Substation	1950	27980
K	195m E	Electricity Substation	1951	27980
G	198m NE	Electricity Substation	1992	27737
G	199m NE	Electricity Substation	1983	27737
G	199m NE	Electricity Substation	1983	27737
G	199m NE	Electricity Substation	1982	27737
G	199m NE	Electricity Substation	1982	27737
G	199m NE	Electricity Substation	1989	27737
K	205m E	Electricity Substation	1955	26687
K	205m E	Electricity Substation	1954	26687
K	205m E	Electricity Substation	1952	26687
K	206m E	Electricity Substation	1955	26747
H	253m SW	Electricity Substation	1951	30008
H	253m SW	Electricity Substation	1955	30008
H	254m SW	Electricity Substation	1950	30008
H	254m SW	Electricity Substation	1952	30008
M	261m SE	Electricity Substation	1955	27588
M	262m SE	Electricity Substation	1951	27588
N	269m W	Electricity Substation	1951	29306

ID	Location	Land Use	Date	Group ID
N	269m W	Electricity Substation	1992	29306
N	270m W	Electricity Substation	1955	29306
N	270m W	Electricity Substation	1953	29306
N	270m W	Electricity Substation	1982	29306
N	270m W	Electricity Substation	1989	29306
N	270m W	Electricity Substation	1982	29306
N	270m W	Electricity Substation	1950	29306
L	277m W	Electricity Substation	1951	27297
L	277m W	Electricity Substation	1953	27297
L	277m W	Electricity Substation	1950	27297
L	277m W	Electricity Substation	1955	27297
M	278m SE	Electricity Substation	1950	28770
M	278m SE	Electricity Substation	1952	28770
T	387m SE	Electricity Substation	1970	25203
T	388m SE	Electricity Substation	1987	25203
T	388m SE	Electricity Substation	1992	25203
V	407m N	Electricity Substation	1992	25894
V	408m N	Electricity Substation	1982	27626
V	408m N	Electricity Substation	1989	27626
V	408m N	Electricity Substation	1982	27626
V	408m N	Electricity Substation	1983	27626
V	408m N	Electricity Substation	1983	27626
U	424m E	Electricity Substation	1988	28289
U	424m E	Electricity Substation	1988	28289
U	424m E	Electricity Substation	1989	28289
U	427m E	Electricity Substation	1969	28289
U	427m E	Electricity Substation	1990	28289
S	446m E	Electricity Substation	1950	26365

ID	Location	Land Use	Date	Group ID
S	447m E	Electricity Substation	1951	26365
S	447m E	Electricity Substation	1952	26365
S	447m E	Electricity Substation	1955	26365
AA	478m SW	Electricity Substation	1994	29128
AA	478m SW	Electricity Substation	1974	29128

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	111

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 24 >

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1955	9233
A	On site	Garage	1960	9921
A	On site	Garage	1958	9875
A	On site	Garage	1953	9875
A	On site	Garage	1965	9921
A	On site	Garage	1950	9875
A	On site	Garage	1950	9875
A	On site	Garage	1952	9875

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1959	9233
A	1m SE	Garage	1971	9875
A	1m SE	Garage	1964	9921
E	69m S	Garage	1971	8304
E	69m S	Garage	1964	8555
E	69m S	Garage	1982	9107
E	69m S	Garage	1987	9107
E	69m S	Garage	1992	9107
E	85m S	Garage	1950	8048
G	156m NE	Garage	1952	9738
G	156m NE	Garage	1954	9738
J	176m SE	Garage	1970	9804
G	191m NE	Garage	1954	9270
G	192m NE	Garage	1952	9270
J	192m SE	Garage	1971	9985
J	192m SE	Garage	1964	9020
G	197m NE	Garage	1954	9238
J	201m SE	Garage	1982	9565
J	201m SE	Garage	1987	9565
J	201m SE	Garage	1992	9565
J	211m SE	Garage	1963	9021
J	211m SE	Garage	1992	9133
J	211m SE	Garage	1987	9133
J	214m SE	Garage	1950	9743
J	215m SE	Garage	1955	9348
J	215m SE	Garage	1959	9348
J	216m SE	Garage	1958	9743
J	216m SE	Garage	1952	9743

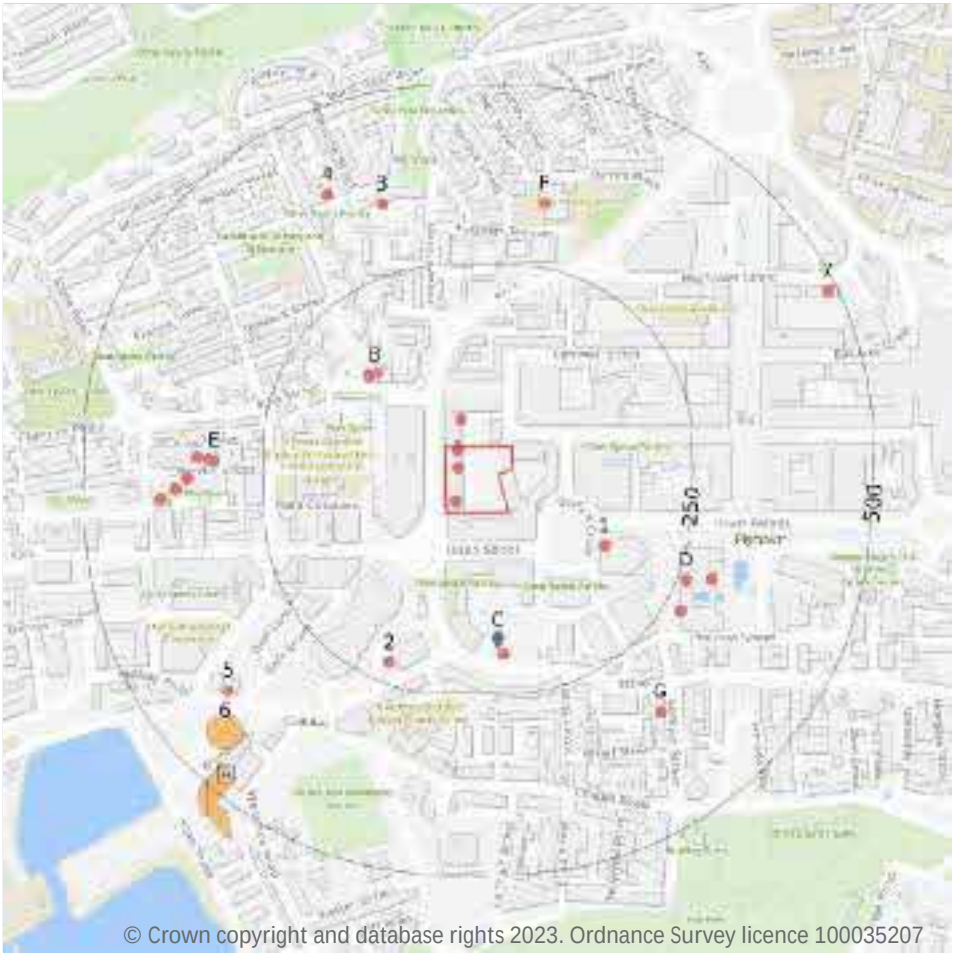
ID	Location	Land Use	Date	Group ID
H	216m SW	Repair Depot	1971	8775
H	217m SW	Repair Depot	1982	9803
H	217m SW	Repair Depot	1987	9803
G	221m NE	Garage	1951	9999
G	222m NE	Garage	1952	9999
J	223m SE	Garage	1950	8313
C	231m N	Carriage Shed	1960	9481
C	231m N	Carriage Shed	1953	9481
C	231m N	Carriage Shed	1965	9481
C	231m N	Carriage Shed	1950	9481
C	231m N	Carriage Shed	1955	9390
C	231m N	Carriage Shed	1951	9390
C	231m N	Carriage Shed	1959	9390
G	242m NE	Garage	1950	10001
G	246m NE	Garage	1952	9238
G	248m NE	Garage	1955	10001
G	248m NE	Garage	1954	10001
G	248m NE	Garage	1951	10001
G	248m NE	Garage	1952	10001
G	248m NE	Garage	1959	10001
G	248m NE	Garage	1955	9593
G	248m NE	Garage	1959	9593
L	250m W	Garage	1960	9262
L	250m W	Garage	1953	9262
L	250m W	Garage	1982	9262
L	250m W	Garage	1982	9262
L	250m W	Garage	1965	9262
L	250m W	Garage	1950	9262

ID	Location	Land Use	Date	Group ID
L	250m W	Garage	1955	9194
L	250m W	Garage	1959	9194
L	250m W	Garage	1983	9422
L	250m W	Garage	1983	9422
I	270m SW	Garage	1964	8047
L	302m W	Garage	1960	9477
L	302m W	Garage	1953	9477
L	302m W	Garage	1965	9477
L	302m W	Garage	1950	9477
L	303m W	Garage	1955	9477
L	303m W	Garage	1959	8738
L	327m W	Garage	1949	9962
P	343m NE	Garage	1952	9654
P	343m NE	Garage	1955	9090
P	343m NE	Garage	1954	9090
P	343m NE	Garage	1951	9654
P	344m NE	Garage	1955	8287
L	364m W	Garage	1971	8323
L	364m W	Garage	1998	9548
L	364m W	Garage	1997	9548
L	365m W	Garage	1989	9962
R	373m SW	Garage	1966	9022
R	378m SW	Garage	1994	9774
R	378m SW	Garage	1974	9774
D	381m SW	Garage	1982	9070
D	381m SW	Garage	1987	9070
D	381m SW	Garage	1992	9070
D	381m SW	Garage	1971	9942

ID	Location	Land Use	Date	Group ID
D	381m SW	Garage	1964	9942
R	393m SW	Garage	1950	8333
11	430m W	Garage	1994	8291
Z	437m W	Garage	1955	8468
Z	437m W	Garage	1950	8794
AA	437m SW	Garage	1994	9485
AB	448m S	Garages	1955	8804
AC	450m W	Garage	1955	9685
AC	450m W	Garage	1950	9685
AC	451m W	Garage	1949	9050
AA	451m SW	Garage	1974	9485
AA	452m SW	Garage	1955	8917
AA	452m SW	Garage	1959	9926
AA	452m SW	Garage	1966	9926
AA	453m SW	Garage	1959	8900
AB	456m S	Garages	1959	8650
AB	457m S	Garages	1958	9161
AB	457m S	Garages	1950	9161
AB	457m S	Garages	1952	9161

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical waste sites

Licensed waste sites

Waste exemptions

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	0

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.

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

3.5 Historical waste sites

Records within 500m	3

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 37 >

ID	Location	Address	Further Details	Date
6	404m SW	Site Address: Plymouth Car Spares, Bounds Place, Millbay Road, PLYMOUTH, Devon, PL1 3LS	Type of Site: Waste Disposal Site Planning application reference: 399 Description: An application (ref: 399) for Detailed Planning permission was submitted to Plymouth C.C. on 23rd April 1993. Data source: Historic Planning Application Data Type: Point	-
H	466m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1970
H	491m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1974

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

3.6 Licensed waste sites

Records within 500m	2

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

Features are displayed on the Waste and landfill map on page 37 >

ID	Location	Details		
C	176m S	Site Name: D & M Car Spares Site Address: Bounds Place, Millbay, Plymouth, Devon, PL1 3LQ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DMC001 EPR reference: EA/EPR/WP3196HT/S002 Operator: Mr M S Calvert & Mr D K Summer Waste Management licence No: 20908 Annual Tonnage: 30000	Issue Date: 07/03/1994 Effective Date: - Modified: - Surrendered Date: Jun 17 2004 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	176m S	Site Name: D & M Car Spares Site Address: Mr M S Calvert & Mr D K Summer, Bounds Place, Bounds Place, Millbay, Plymouth, Devon, PL1 3LQ Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 647257 EPR reference: EA/EPR/WP3196HT Operator: Mr M S Calvert & Mr D K Summer Waste Management licence No: 20908 Annual Tonnage: 30000	Issue Date: 07/03/1994 Effective Date: 07/03/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 07/03/1994 Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	158

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 37 >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	14 Western Approach, Plymouth, PL1 1TQ	EA/EPR/VP3859JS/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Manual treatment of waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Crushing and emptying waste vehicle oil filters
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of textiles
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of sheep dip for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of silver
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of monopropylene glycol from aircraft antifreeze fluids
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of central heating oil by filtration
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Screening and blending of waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of waste in construction
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Incorporation of ash into soil
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of effluent to clean a highway gravel bed
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Deposit of waste from a railway sanitary convenience
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Deposit of waste from a portable sanitary convenience
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Disposing of waste exemption	Not on a farm	Burning waste at a port under a Plant Health notice
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Storing waste exemption	Not on a farm	Storage of sludge
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Sorting mixed waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of waste food
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Dewatering using flocculants

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Physical treatment of waste edible oil and fat to produce biodiesel
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of kitchen waste in a wormery
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Treatment of waste in a biobed or biofilter
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Spreading waste on agricultural land to confer benefit
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of mulch
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Pig and poultry ash

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of sludge for the purposes of re-seeding a waste water treatment plant
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX097328	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	On site	32, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX270867	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of mulch
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of silver
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Deposit of waste from a railway sanitary convenience
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Spreading waste on agricultural land to confer benefit
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Incorporation of ash into soil
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Pig and poultry ash
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of textiles
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Screening and blending of waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Sorting mixed waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Manual treatment of waste
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Crushing and emptying waste vehicle oil filters
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Dewatering using flocculants
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Physical treatment of waste edible oil and fat to produce biodiesel
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Anaerobic digestion at premises used for agriculture and burning of resultant biogas
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Anaerobic digestion at premises not used for agriculture and burning of resultant biogas
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of kitchen waste in a wormery
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of sheep dip for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of monopropylene glycol from aircraft antifreeze fluids

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of waste in a biobed or biofilter
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Recovery of central heating oil by filtration
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Deposit of waste from a portable sanitary convenience
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Disposing of waste exemption	Not on a farm	Burning waste at a port under a Plant Health notice
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Storing waste exemption	Not on a farm	Storage of sludge
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of sludge for the purposes of re-seeding a waste water treatment plant
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of effluent to clean a highway gravel bed
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	On site	10-14, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX243655	Treating waste exemption	Not on a farm	Treatment of waste food
A	37m N	32, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX161764	Treating waste exemption	Not on a Farm	Manual treatment of waste
A	37m N	32, WESTERN APPROACH, PLYMOUTH, PL1 1TQ	WEX130874	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	139m NW	140 King Street PL1 5JE	EPR/WE5288VK/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
1	140m SE	Theatre Royal Regeneration Derry's Cross Plymouth PL1 2TR	EPR/NH0112RQ/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
B	144m NW	138-140, KING STREET, PLYMOUTH, PL1 5JE	WEX219247	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	144m NW	140, KING STREET, PLYMOUTH, PL1 5JE	WEX131834	Storing waste exemption	Not on a farm	Storage of waste in a secure place

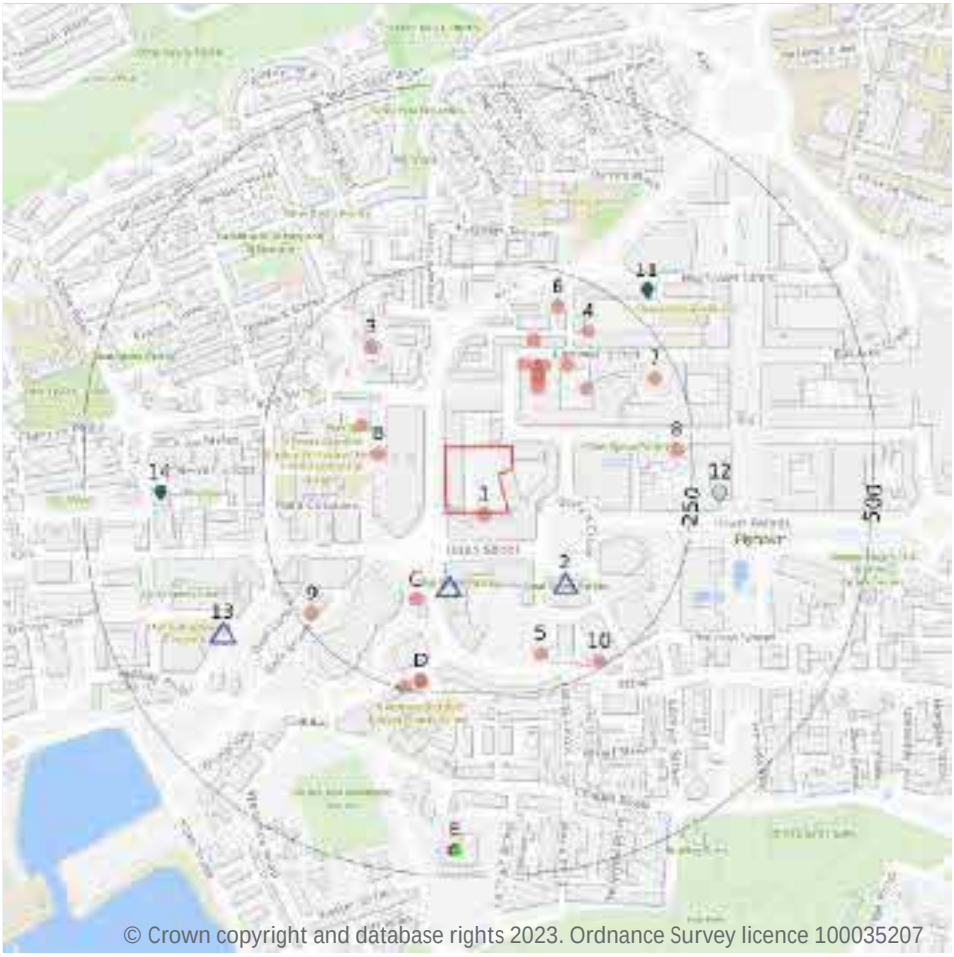
ID	Location	Site	Reference	Category	Sub-Category	Description
B	144m NW	140, KING STREET, PLYMOUTH, PL1 5JE	WEX131834	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	144m NW	138-140, KING STREET, PLYMOUTH, PL1 5JE	WEX074077	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	144m NW	138-140, KING STREET, PLYMOUTH, PL1 5JE	WEX342476	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	144m NW	140, KING STREET, PLYMOUTH, PL1 5JE	WEX271707	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	144m NW	140, KING STREET, PLYMOUTH, PL1 5JE	WEX271707	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	196m S	-	WEX359132	Using waste exemption	Not on a farm	Use of waste in construction
2	222m SW	-	WEX246822	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	262m SE	for Plymouth City Council	EPR/GE5387TN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
D	273m SE	Civic Centre Armada Way Plymouth Devon PL1 2AA	EPR/PE5440KJ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
D	295m SE	Civic Centre Armada Way Plymouth Devon PL1 2AA	EPR/BF0236RR/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
E	320m W	170 Rendle Street, Stonehouse, Plymouth, PL1 1TP	EA/EPR/VP3843SJ/A001	Treating waste exemption	Non-Agricultural waste only	Repair or refurbishment of WEEE
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX094267	Treating waste exemption	Not on a farm	Recovery of textiles
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX099125	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX099125	Treating waste exemption	Not on a farm	Recovery of textiles
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX099125	Treating waste exemption	Not on a farm	Recovery of scrap metal
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX099125	Storing waste exemption	Not on a farm	Storage of waste in secure containers
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX099125	Treating waste exemption	Not on a farm	Sorting mixed waste

ID	Location	Site	Reference	Category	Sub-Category	Description
E	321m W	170, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX237583	Treating waste exemption	Not on a farm	Recovery of textiles
E	327m W	170 Rendle Street Stonehouse Plymouth Devon PL1 1TP	EA/EPR/VP3686HW/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE
F	339m N	Pilgrim Primary School Sydney Street Plymouth Devon PL1 5BQ	EPR/NF0532VT/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
F	339m N	Pilgrim Primary School Sydney Street Plymouth Devon PL1 5BQ	EPR/NF0532VT/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
E	343m W	181 Rendle Street Plymouth Devon PL1 1TP	EPR/GF0302LT/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Recovery of scrap metal
G	346m SE	14 Lockyer Street Plymouth Devon PL1 2QJ	EPR/ZF0139ZG/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
3	347m N	Stonehouse Arena Wyndham Street East Plymouth PL1 5HE	EPR/FE5983NF/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
G	348m SE	14, LOCKYER STREET, PLYMOUTH, PL1 2QJ	WEX220209	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	348m SE	14, LOCKYER STREET, PLYMOUTH, PL1 2QJ	WEX074851	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	348m SE	14, LOCKYER STREET, PLYMOUTH, PL1 2QJ	WEX343946	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	358m W	181 Rendle Street Plymouth Devon PL1 1TP	EPR/DF0608VH/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
E	358m W	181 Rendle Street Plymouth Devon PL1 1TP	EPR/DF0608VH/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	358m W	181 Rendle Street Plymouth Devon PL1 1TP	EPR/DF0608VH/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX155438	Storing waste exemption	Not on a Farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX155438	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX155438	Treating waste exemption	Not on a Farm	Recovery of scrap metal
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX292137	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX292137	Storing waste exemption	Not on a farm	Storage of waste in secure containers
E	375m W	181, RENDLE STREET, PLYMOUTH, PL1 1TP	WEX292137	Treating waste exemption	Not on a farm	Recovery of scrap metal
4	385m NW	Stonehouse Arena Wyndham Street PLYMOUTH PL1 5HE	EPR/NE5688FE/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
5	389m SW	44, MILLBAY ROAD, PLYMOUTH, PL1 3FQ	WEX254775	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	395m W	Car Park Rear of Union Street Plymouth PL1 1TL	EPR/LH0277UA/A001	Treating waste exemption	Non-Agricultural Waste Only	Mechanical treatment of end-of-life tyres
7	487m NE	TRINITY, 5, 161, OLD CHRISTCHURCH ROAD, BOURNEMOUTH, BH1 1JU	WEX098755	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Radioactive Substance Authorisations

Pollution Incidents (EA/NRW)

Pollution inventory radioactive waste

4.1 Recent industrial land uses

Records within 250m	26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 52 >

ID	Location	Company	Address	Activity	Category
1	3m S	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
A	89m NE	The Phone Stall Plymouth	Plymouth Market, Market Avenue, Plymouth, Devon, PL1 1PS	Electrical Equipment Repair and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
B	92m W	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
A	98m NE	Computer & Printer Supplies	Unit 68, Plymouth City Market, Plymouth, Devon, PL1 1PS	Printing Related Machinery	Industrial Products
A	105m NE	Hannah's	Plymouth Market, Market Avenue, Plymouth, Devon, PL1 1PS	Disability and Mobility Equipment	Consumer Products
A	105m NE	A H F Workwear	23-24 Plymouth City Market, The Market, Plymouth, Devon, PL1 1PS	Workwear	Industrial Products
A	116m N	More Than Mobiliity	139, Cornwall Street, City Centre, Plymouth, Devon, PL1 1PA	Disability and Mobility Equipment	Consumer Products
A	117m NE	Robins & Moore	131-133, Cornwall Street, City Centre, Plymouth, Devon, PL1 1DH	Jewellery, Gems, Clocks and Watches	Consumer Products
B	120m NW	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
A	121m NE	Peters Fishing & Sport	125, Cornwall Street, City Centre, Plymouth, Devon, PL1 1PA	Arms and Ammunition	Industrial Products
C	127m SW	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
A	131m NE	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
A	136m NE	Ocean Pay Ltd	111, Cornwall Street, City Centre, Plymouth, Devon, PL1 1PA	Office and Shop Equipment	Industrial Products
A	149m NE	Fitness for Sport	142, Cornwall Street, Plymouth, Devon, PL1 1NJ	Published Goods	Industrial Products
3	171m NW	Belmont Garage	1, Belmont Street, Plymouth, Devon, PL1 5HU	Vehicle Repair, Testing and Servicing	Repair and Servicing
4	191m NE	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
5	201m S	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
6	204m NE	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
7	219m NE	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
8	227m E	Brewsters Ltd	69, New George Street, Plymouth, Devon, PL1 1RJ	Electrical Production and Manipulation Equipment	Industrial Products
9	232m SW	Challenger Tyre Centre	23-25, Bath Street, Plymouth, Devon, PL1 3LT	Vehicle Parts and Accessories	Motoring
D	235m S	West Briton Newspaper	5-11, Millbay Road, Plymouth, Devon, PL1 3LF	Published Goods	Industrial Products
D	235m S	Hulley & Kirkwood	5-11, Millbay Road, Plymouth, Devon, PL1 3LF	Civil Engineers	Engineering Services
D	235m S	Reach Plc	5-11, Millbay Road, Plymouth, Devon, PL1 3LF	Published Goods	Industrial Products
10	242m SE	Electricity Sub Station	Devon, PL1	Electrical Features	Infrastructure and Facilities
D	246m S	D C Media	5-11, Millbay Road, Plymouth, Devon, PL1 3LF	Published Goods	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	3

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on page 52 >

ID	Location	Company	Address	LPG	Status
C	102m S	OBSOLETE	The Crescent, Plymouth, Plymouth, PL1 3	Not Applicable	Obsolete
2	125m SE	BP	Derrys Cross, Plymouth, Plymouth, PL1 2SW	Not Applicable	Obsolete
13	351m SW	SHELL	Martin Street, Plymouth, Plymouth, PL1 3NE	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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.

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	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	2

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

Features are displayed on the Current industrial land use map on page 52 >

ID	Location	Address	Details	
11	284m NE	Mayflower Cleaners, 93 Mayflower Street, Plymouth, PL1 1SD	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Issued Date of enforcement: No Enforcements Issued Comment: No Enforcements Issued
14	395m W	Curtis Ball, 10/13 Manor St, Stonehouse (W-St Peter Waterfront), PL1 3NF	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Issued Date of enforcement: No Enforcements Issued Comment: No Enforcements Issued

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 52 >

ID	Location	Address	Details	
E	466m S	Prospect Place, The Hoe, Plymouth, PL1 3DH	Operator: Plymouth Marine Laboratory Type: - Permission number: JB3098DN Date of approval: -	Effective from: 04/04/2016 Last date of update: 01/01/2020 Status: Issued
E	466m S	Prospect Place, The Hoe, Plymouth, PL1 3DH	Operator: Plymouth Marine Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BW6272 Date of approval: 01/12/2003	Effective from: - Last date of update: 01/01/2020 Status: Replaced
E	466m S	Prospect Place, The Hoe, Plymouth, PL1 3DH	Operator: Plymouth Marine Laboratory Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AU0627 Date of approval: 05/11/1996	Effective from: - Last date of update: 01/01/2020 Status: Replaced
E	466m S	Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth, Devon, PL1 3DH	Operator: Plymouth Marine Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AU0490 Date of approval: 01/04/1991	Effective from: 01/04/1991 Last date of update: 01/01/2015 Status: Superseded By Variation
E	466m S	Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth, Devon, PL1 3DH	Operator: Plymouth Marine Laboratory Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AU0490 Date of approval: 05/11/1996	Effective from: 03/12/1996 Last date of update: 01/01/2015 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	0

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

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	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on page 52 >

ID	Location	Details	
12	288m E	Incident Date: 29/03/2002 Incident Identification: 67481 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	1

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.

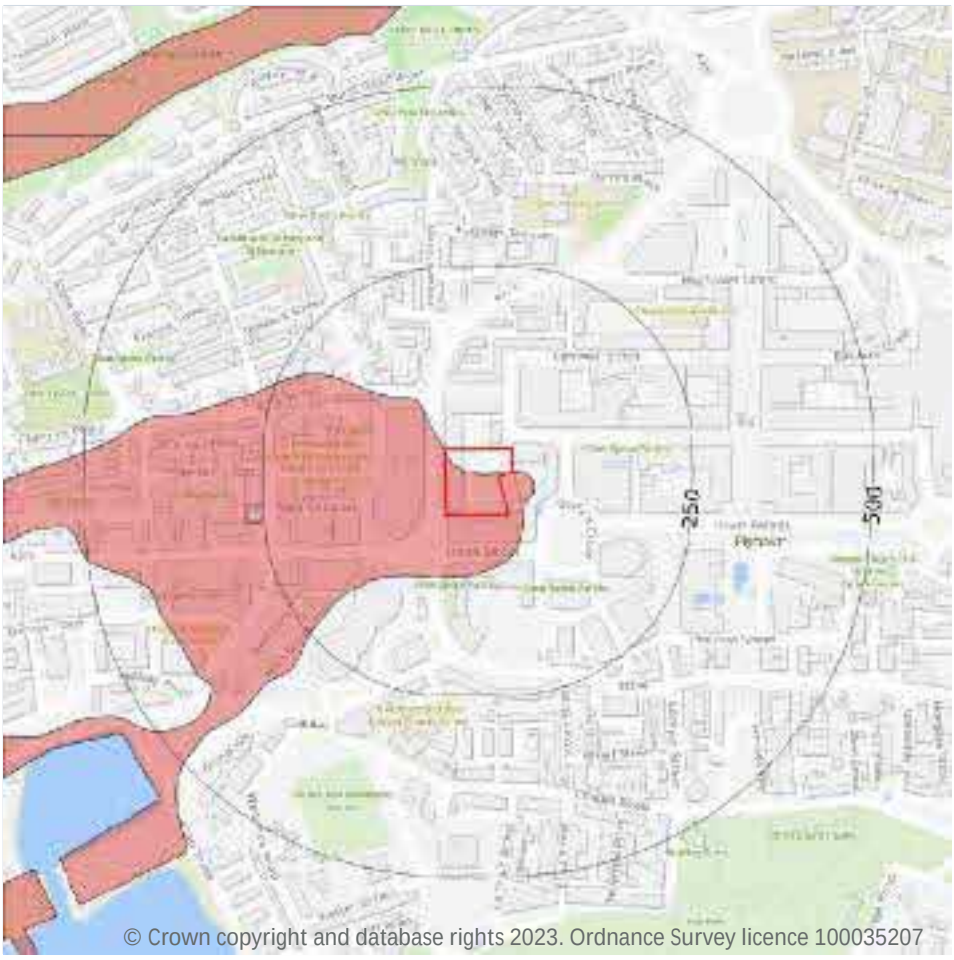
Features are displayed on the Current industrial land use map on page 52 >

ID: E, Location: 467m S, Permit: JB3098DN
Operator: PLYMOUTH MARINE LABORATORY
Address: Prospect Place, The Hoe, Plymouth PL1 3DH
Releases:

Route	Substance	Quantity released
Wastewater	Carbon 14	554.23MBq -

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	1

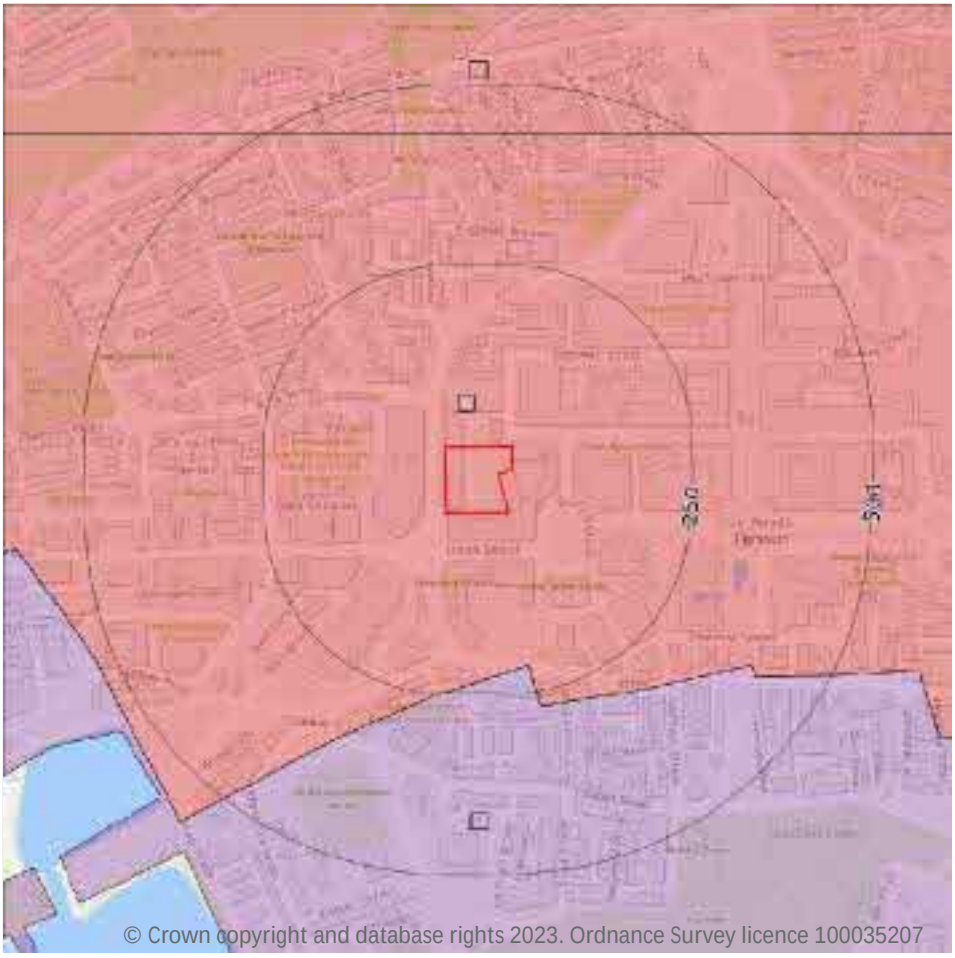
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 60 >

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

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	3

Aquifer status of groundwater held within bedrock geology.

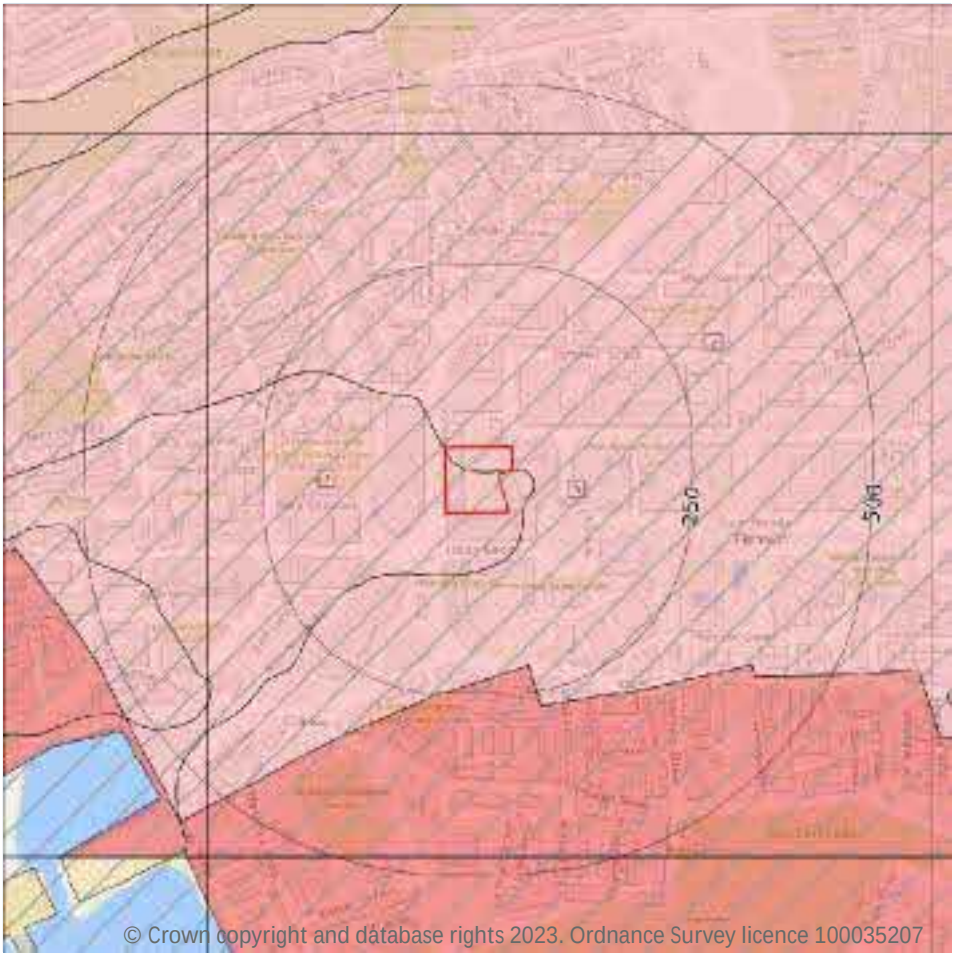
Features are displayed on the Bedrock aquifer map on page 61 >

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	214m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	432m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

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

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

Features are displayed on the Groundwater vulnerability map on page 63 >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1

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
3	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	19.0%

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones

Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	1

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 65 >

ID	Location	Details	
-	1131m SE	Status: Active Licence No: 15/47/002/G/044 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: NATIONAL MARINE AQUARIUM - BOREHOLE Data Type: Point Name: National Marine Aquarium Ltd Easting: 248450 Northing: 54020	Annual Volume (m^3): 36500 Max Daily Volume (m^3): 100 Original Application No: C00153 Original Start Date: 19/12/1997 Expiry Date: 31/03/2026 Issue No: 103 Version Start Date: 21/10/2008 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	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology

Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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.

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 68 >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	73	Plym	Tamar

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

6.4 WFD Surface water bodies

Records identified	0

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.

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

6.5 WFD Groundwater bodies

Records on site	1

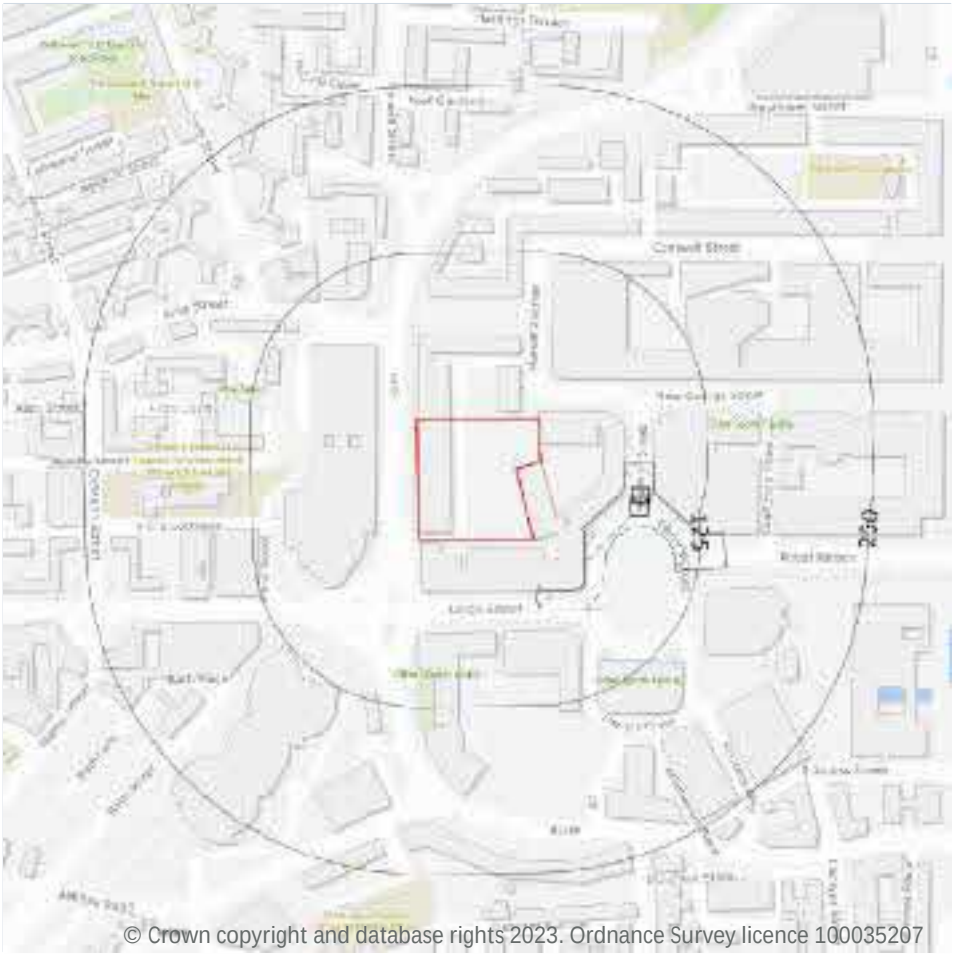
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on page 68 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Tamar	GB40802G806700 ↗	Poor	Poor	Good	2019

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

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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).

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

7.2 Historical Flood Events

Records within 250m	2

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 71 >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	35m SE	Cw8631 - Plymouth, Derrys Cross	1958-08-07 1958-08-07	Unknown	Unknown	No data
2	72m E	Cw9035 - Plymouth, Raleigh Street (Sw)	2012-01-03 2012-01-03	Drainage	Local drainage/surface water	No data

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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.

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

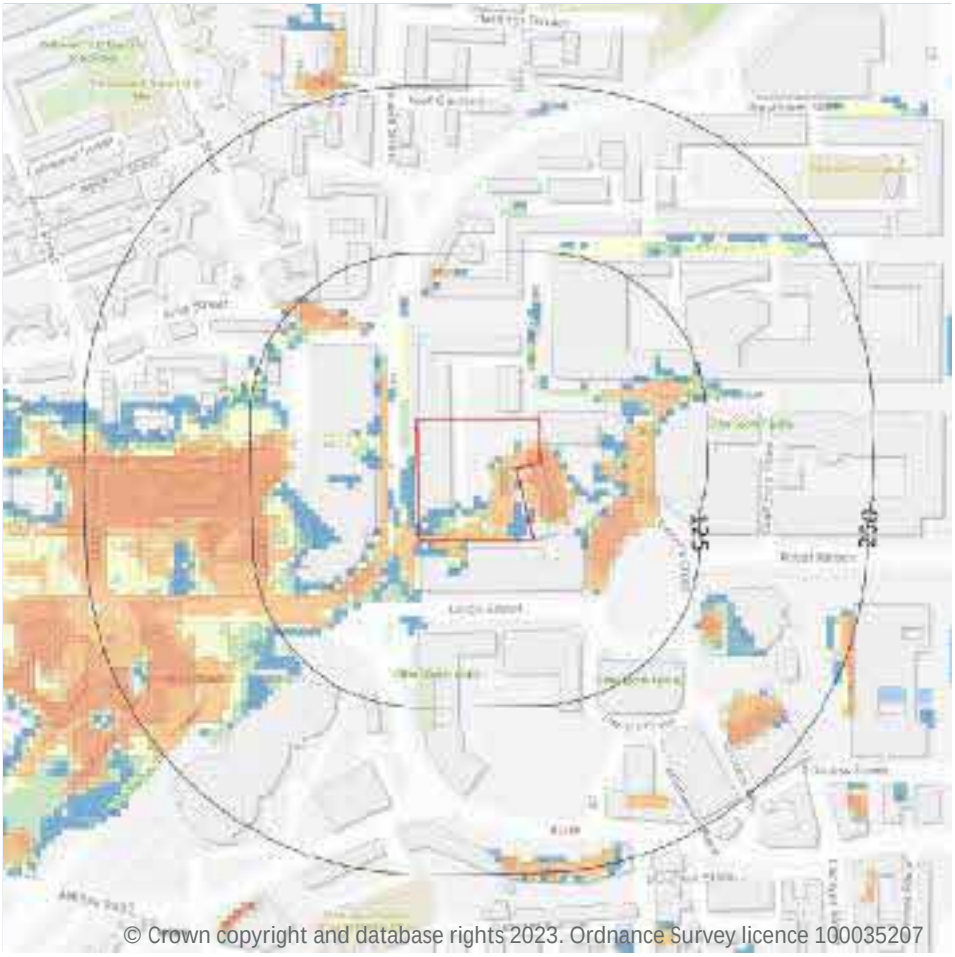
7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

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 75 >

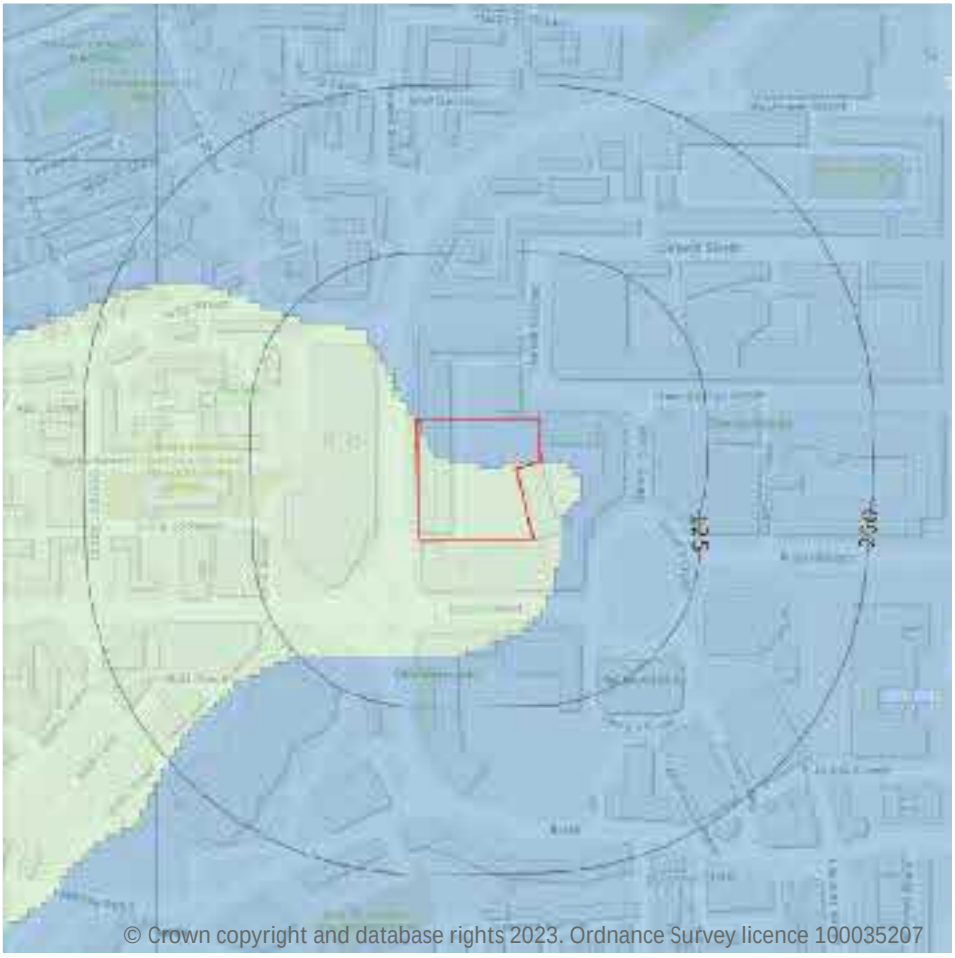
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

Highest risk on site	Low
Highest risk within 50m	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 77 >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Special Areas of Conservation (SAC)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	5

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

Features are displayed on the Environmental designations map on page 78 >

ID	Location	Name	Data source
-	1236m W	Richmond Walk	Natural England

ID	Location	Name	Data source
4	1534m SW	Western King	Natural England
-	1595m SE	Plymouth Sound Shores and Cliffs	Natural England
-	1766m W	Mount Wise	Natural England
-	1963m SE	Wallsend Industrial Estate	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	2

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

Features are displayed on the Environmental designations map on page 78 >

ID	Location	Name	Features of interest	Habitat description	Data source
1	723m S	Plymouth Sound & Estuaries	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Shallow inlets and bays; Reefs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Marine areas, Sea inlets; Coastal sand dunes, Sand beaches, Machair; Shingle, Sea cliffs, Islets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England

ID	Location	Name	Features of interest	Habitat description	Data source
-	1285m S	Plymouth Sound & Estuaries	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Shallow inlets and bays; Reefs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Marine areas, Sea inlets; Coastal sand dunes, Sand beaches, Machair; Shingle, Sea cliffs, Islets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England

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	0

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.

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.

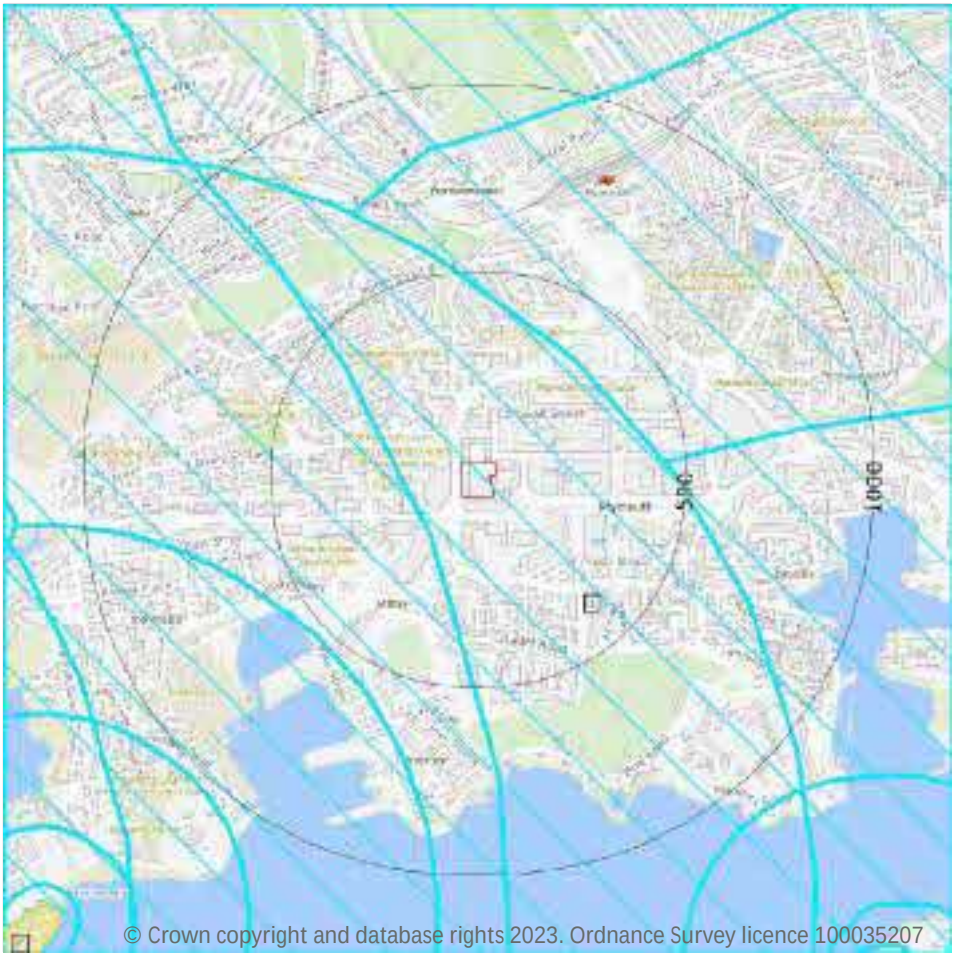
10.16 Nitrate Vulnerable Zones

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



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on page 84 >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	6

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

Features are displayed on the SSSI Impact Zones and Units map on page 84 >

ID: -
Location: 1236m W
SSSI name: Richmond Walk
Unit name: Richmond Walk Quarry Faces
Broad habitat: Earth Heritage
Condition: Unfavourable - No change
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Marine Devonian	Unfavourable - No change	30/01/2012

ID: C
Location: 1534m SW
SSSI name: Western King
Unit name: Western King Point Cliff Exposures
Broad habitat: Earth Heritage
Condition: Unfavourable - No change

Reportable features:

Feature name	Feature condition	Date of assessment
EC - Marine Devonian	Favourable	12/08/2020
Population of Schedule 8 plant - Eryngium campestre, Field Eryngo	Unfavourable - No change	12/08/2020

ID: -
Location: 1595m SE
SSSI name: Plymouth Sound Shores and Cliffs
Unit name: Mountbatten Bay
Broad habitat: Littoral Sediment
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
H1170 Reefs	Not Recorded	01/01/1900
Littoral rock and inshore sublittoral rock	Not Recorded	01/01/1900
Littoral sediment	Not Recorded	01/01/1900

ID: -
Location: 1766m W
SSSI name: Mount Wise
Unit name: Mount Wise Exposures
Broad habitat: Earth Heritage
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
EO - Marine Devonian	Unfavourable - Recovering	25/06/2010

ID: -
Location: 1963m SE
SSSI name: Wallsend Industrial Estate
Unit name: Wallsend Oil Storage Depot Quarry
Broad habitat: Earth Heritage
Condition: Unfavourable - Declining
Reportable features:

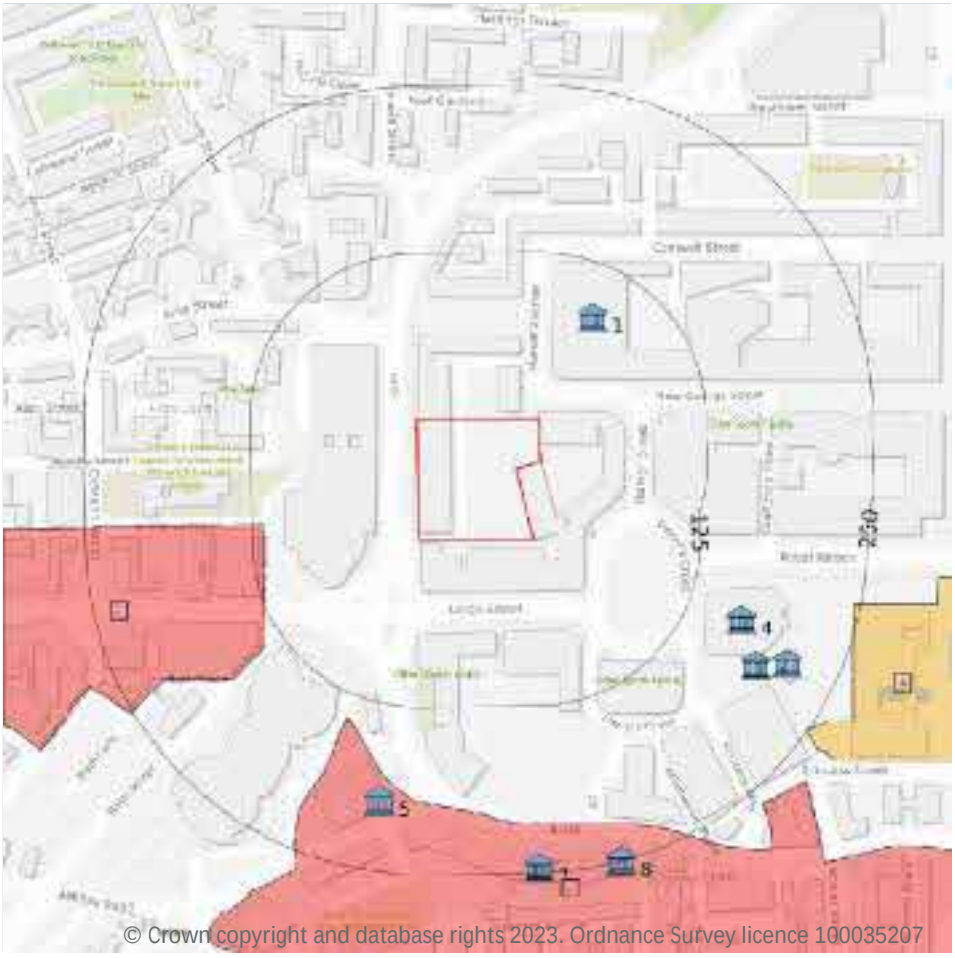
Feature name	Feature condition	Date of assessment
ED - Marine Devonian	Unfavourable - Declining	24/01/2012

ID: -
Location: 1969m SE
SSSI name: Wallsend Industrial Estate
Unit name: Wallsend Industrial Estate Quarry Face
Broad habitat: Earth Heritage
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Marine Devonian	Unfavourable - Declining	24/01/2012

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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	7

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 88 >

ID	Location	Name	Grade	Reference Number	Listed date
1	86m NE	Pannier Market	II	1350321	25/03/2003
4	167m SE	Theatre Royal Plymouth	II	1457337	20/08/2018
A	191m SE	Clock Tower	II	1130056	01/05/1975
5	197m S	New Continental Hotel And Attached Forecourt Walls And Railings	II	1386246	01/05/1975
A	211m SE	The Bank Public House	II	1130057	01/05/1975

ID	Location	Name	Grade	Reference Number	Listed date
7	246m S	Numbers 2 To 12 And Attached Forecourt Walls And Railings	II	1386445	25/01/1954
8	250m S	Number 1 And Attached Forecourt Wall And Railings	II*	1386444	25/01/1954

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

11.5 Conservation Areas

Records within 250m	2

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

Features are displayed on the Visual and cultural designations map on page 88 >

ID	Location	Name	District	Date of designation
2	116m W	Union Street, City of Plymouth	City of Plymouth	2001
3	143m SW	The Hoe, City of Plymouth	City of Plymouth	04/03/1977

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	1

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

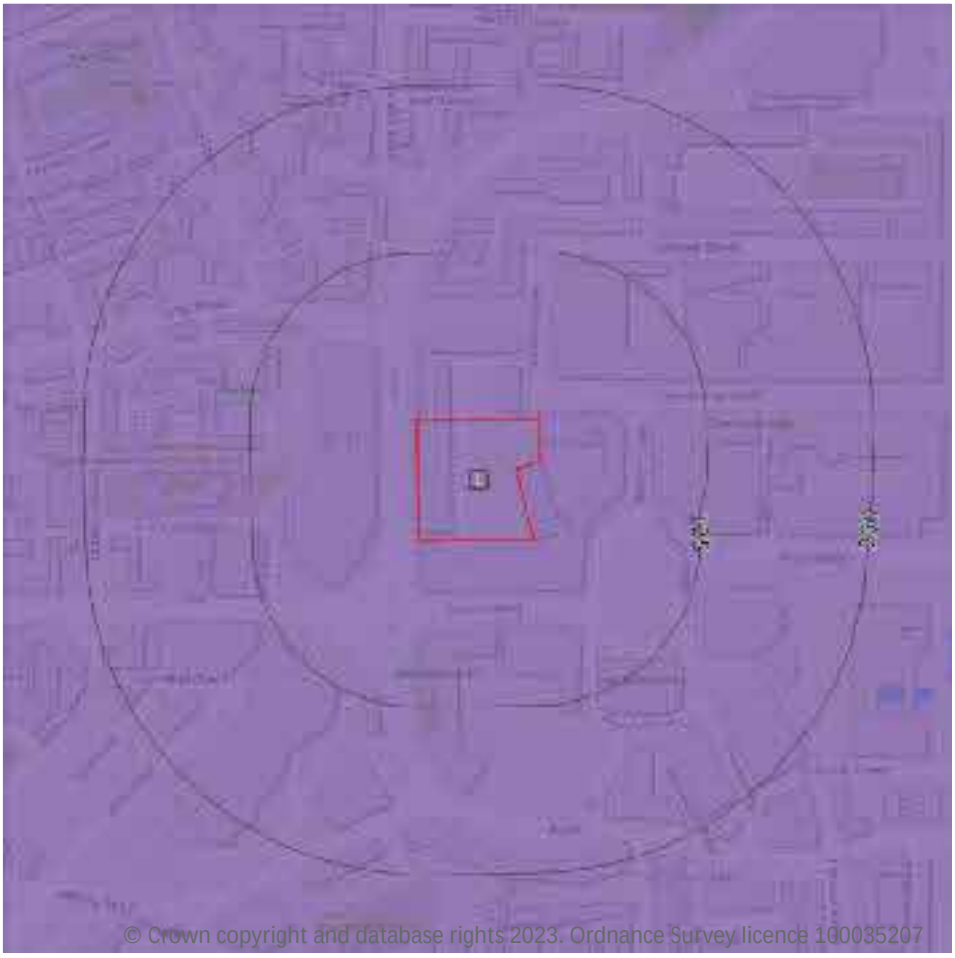
proposed development on the special character of the landscape.

Features are displayed on the Visual and cultural designations map on page 88 >

ID	Location	Name	Grade
6	244m E	Civic Square, Plymouth	II

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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 92 >

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on page 95 >

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability

Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

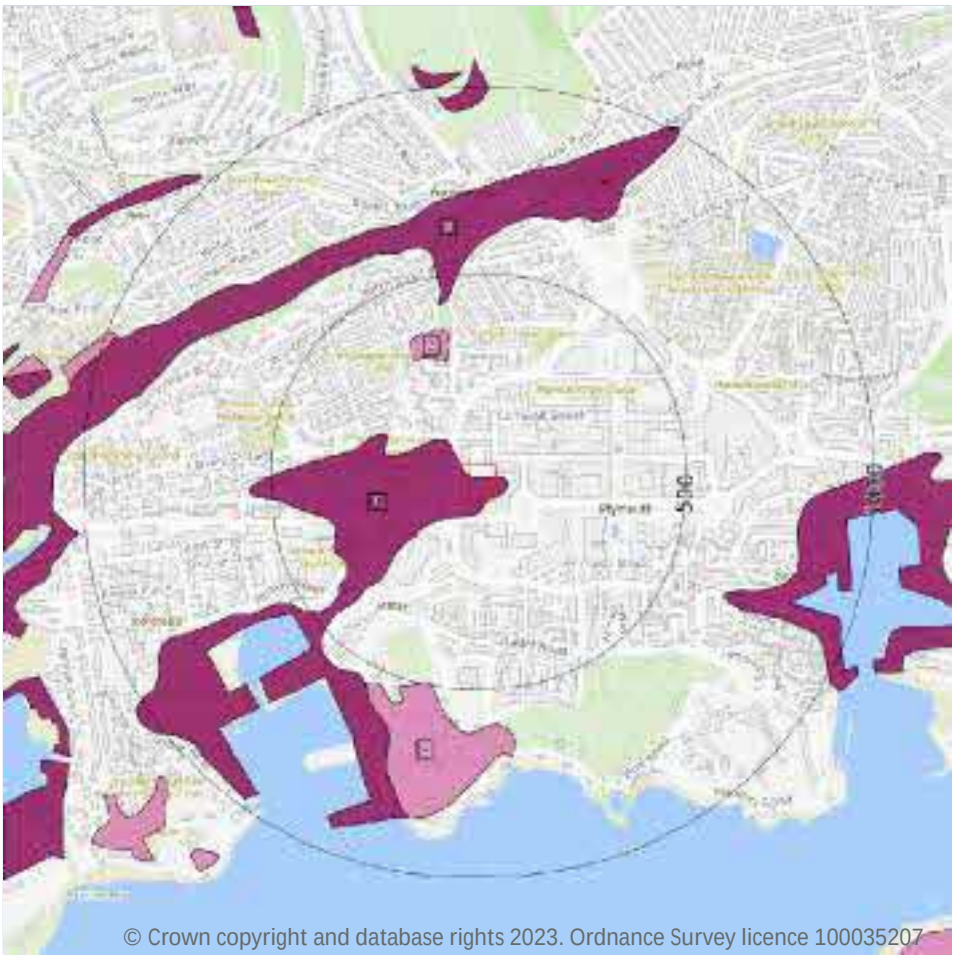
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 99 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW348_plymouth_v4

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	4

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 100 >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	277m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	428m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	494m S	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m	1

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 102 >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, 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	High	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.

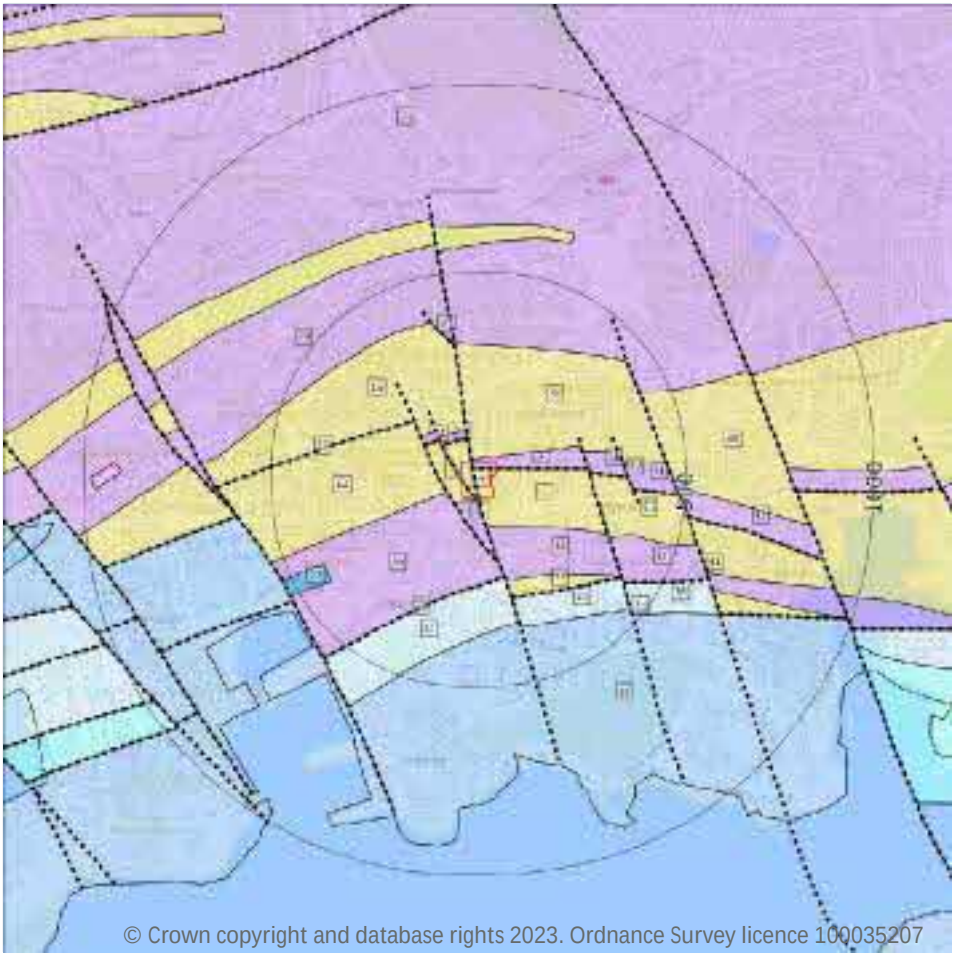
15.7 Landslip permeability (50k)

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	26

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 104 >

ID	Location	LEX Code	Description	Rock age
1	On site	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
2	On site	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
3	On site	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
4	On site	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN

ID	Location	LEX Code	Description	Rock age
8	5m S	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
9	10m N	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
10	27m SW	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
12	39m SW	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
13	58m NW	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
15	78m S	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
16	81m NW	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
17	82m NW	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
20	214m S	FAR-LMST	FARADAY ROAD MEMBER - LIMESTONE	EIFELIAN
22	225m S	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
24	230m E	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
25	245m E	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
27	272m S	FAR-LMST	FARADAY ROAD MEMBER - LIMESTONE	EIFELIAN
29	308m N	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
31	309m N	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
33	322m SE	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
34	333m E	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN
35	336m S	PYL-LMST	PLYMOUTH LIMESTONE FORMATION - LIMESTONE	EIFELIAN
37	408m SW	TPT-LMST	TORPOINT FORMATION - LIMESTONE	FRASNIAN
38	409m SE	FAR-LMST	FARADAY ROAD MEMBER - LIMESTONE	EIFELIAN
40	421m NE	SAH-SLAS	SALTASH FORMATION - SLATE AND SILTSTONE	EMSIAN
42	475m E	TPT-MDSI	TORPOINT FORMATION - MUDSTONE AND SILTSTONE	FRASNIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	3

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
On site	Fracture	Low	Low
5m S	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	16

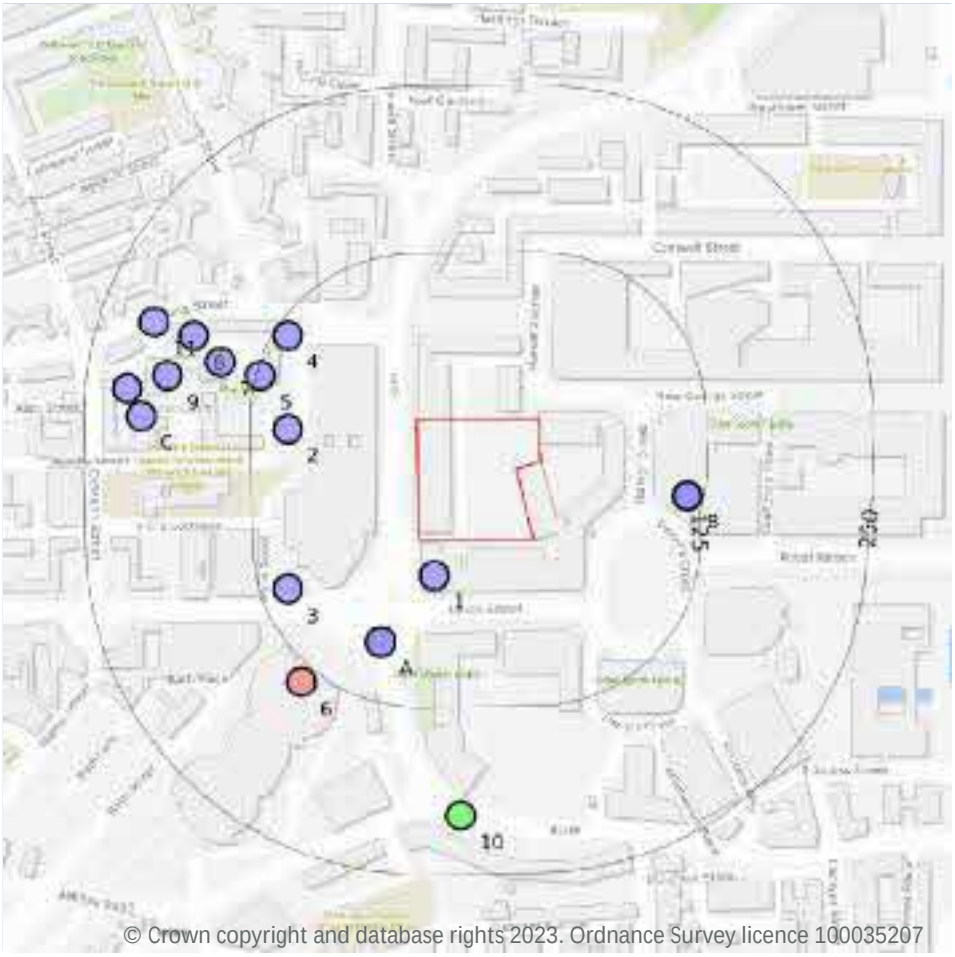
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 104 >

ID	Location	Category	Description
5	On site	FAULT	Fault, inferred, displacement unknown
6	On site	FAULT	Fault, inferred, displacement unknown
7	On site	FAULT	Fault, inferred, displacement unknown
11	27m SW	FAULT	Fault, inferred, displacement unknown
14	58m NW	FAULT	Fault, inferred, displacement unknown
18	82m NW	FAULT	Fault, inferred, displacement unknown
19	167m NW	FAULT	Fault, inferred, displacement unknown
21	214m S	FAULT	Fault, inferred, displacement unknown
23	228m E	FAULT	Fault, inferred, displacement unknown
26	245m E	FAULT	Fault, inferred, displacement unknown
28	272m S	FAULT	Fault, inferred, displacement unknown
30	308m N	FAULT	Fault, inferred, displacement unknown
32	314m E	FAULT	Fault, inferred, displacement unknown
36	364m E	FAULT	Fault, inferred, displacement unknown
39	409m SE	FAULT	Fault, inferred, displacement unknown
41	421m NE	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	27

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 107 >

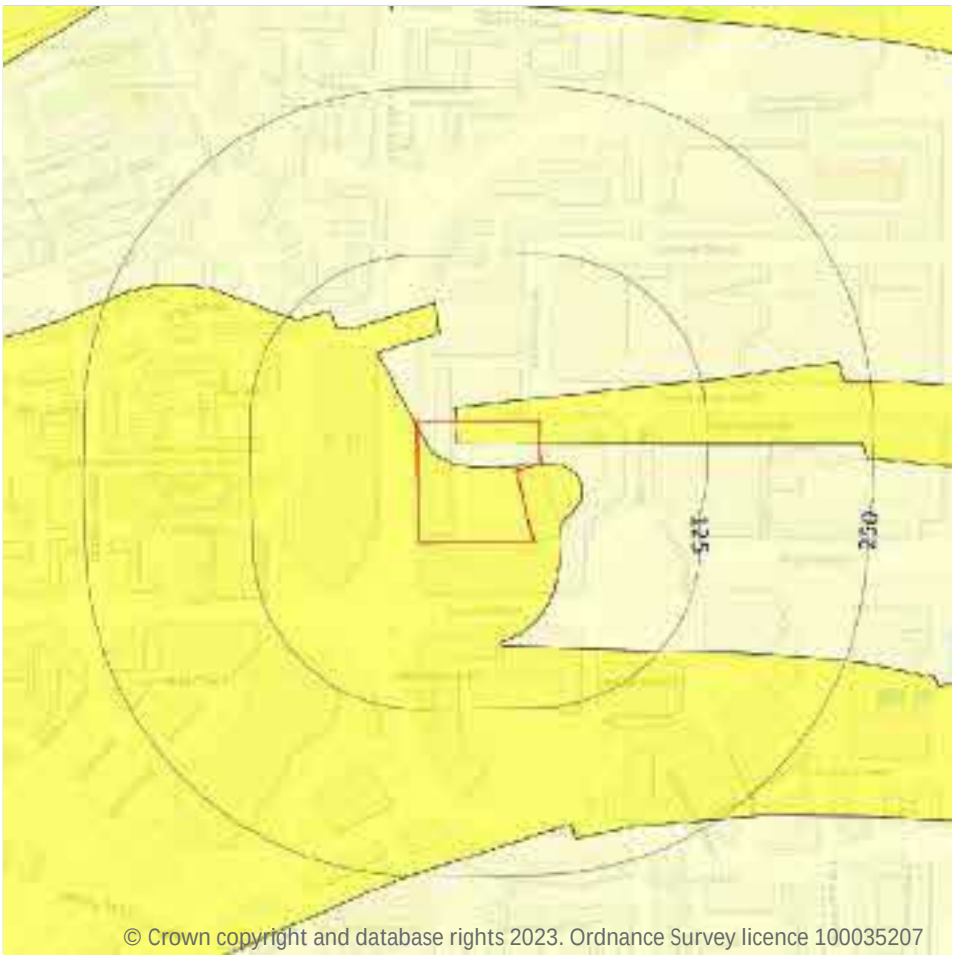
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	26m S	247340 54450	PLYMOUTH UNION ST BH102R	8.0	N	798779 ↗
A	81m SW	247300 54400	PLYMOUTH UNION ST BH101	6.0	N	798778 ↗
A	81m SW	247300 54400	PLYMOUTH UNION ST BH106R	10.0	N	798782 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	81m SW	247300 54400	PLYMOUTH UNION ST BH106	8.0	N	798783 ↗
2	97m W	247230 54560	RENDLE ST PLYMOUTH BH1	10.0	N	798951 ↗
3	105m SW	247230 54440	PLYMOUTH UNION ST BH103	7.0	N	798780 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 2	7.32	N	16054902 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 4	5.18	N	16054905 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 5	5.18	N	16054907 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 6	4.27	N	16054909 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 7	4.57	N	16054911 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 11	6.1	N	16054917 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 1	8.53	N	16054895 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 3	7.32	N	16054904 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 8	5.18	N	16054913 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 10	5.79	N	16054916 ↗
B	113m E	247530 54510	ROYAL PARADE PLYMOUTH 9	5.79	N	16054915 ↗
4	115m NW	247230 54630	RENDLE ST PLYMOUTH BH3	8.0	N	798953 ↗
5	121m NW	247210 54600	RENDLE ST PLYMOUTH BH2	10.0	N	798952 ↗
6	138m SW	247240 54370	PLYMOUTH VICTORIA SPA	107.89	N	798757 ↗
7	153m NW	247180 54610	RENDLE ST PLYMOUTH BH4	9.0	N	798954 ↗
8	178m NW	247160 54630	RENDLE ST PLYMOUTH BH5	7.0	N	798955 ↗
9	190m W	247140 54600	RENDLE ST PLYMOUTH BH7	9.0	N	798957 ↗
10	206m S	247360 54270	PLYMOUTH UNION ST BH105R	14.0	N	798781 ↗
C	207m W	247120 54570	RENDLE ST PLYMOUTH BH8	8.0	N	798958 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
11	210m NW	247130 54640	RENDLE ST PLYMOUTH BH6	7.0	N	798956 ↗
C	218m W	247110 54590	RENDLE ST PLYMOUTH BH9	10.0	N	798959 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

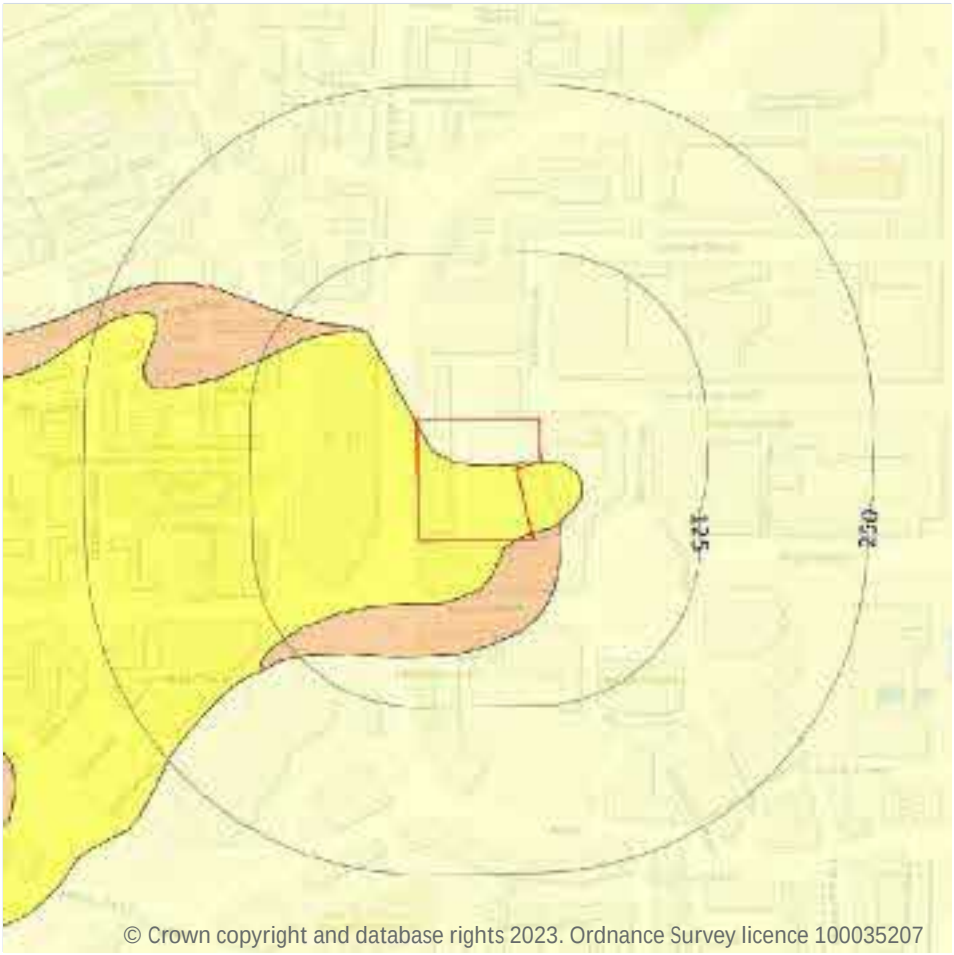
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 110 >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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

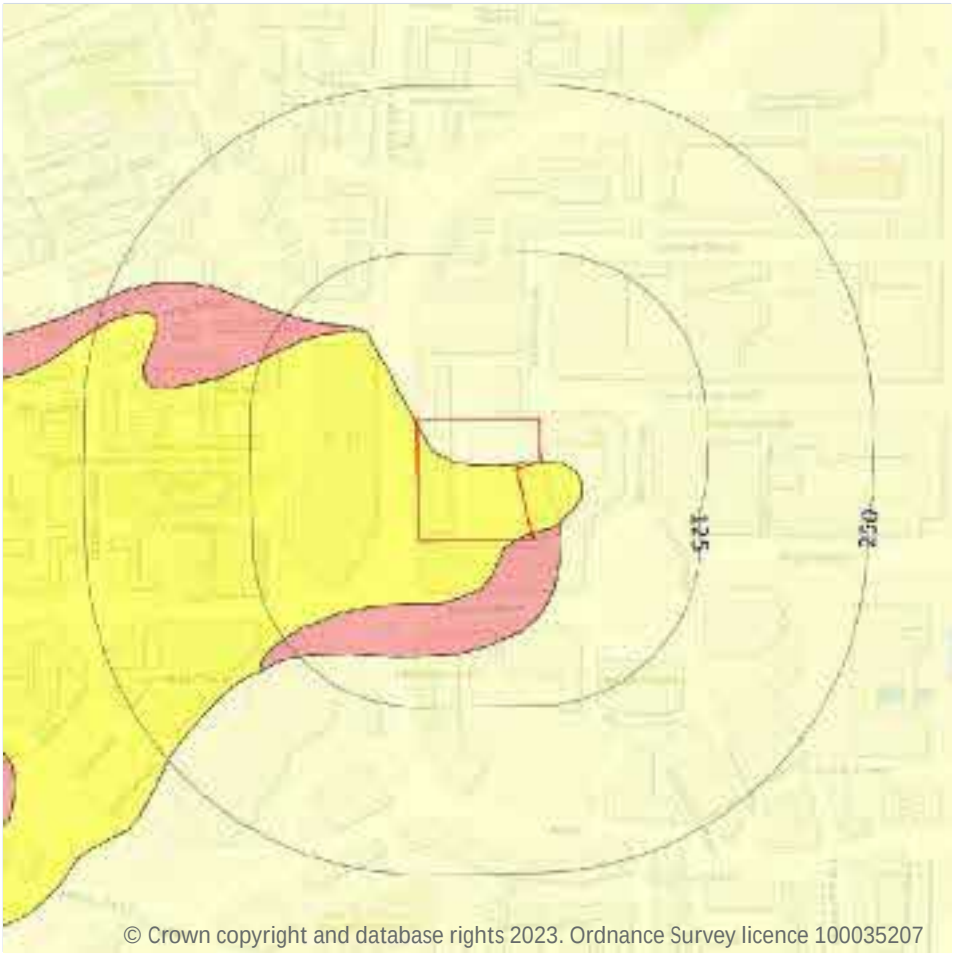
Features are displayed on the Natural ground subsidence - Running sands map on page 111 >

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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.
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



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	3

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

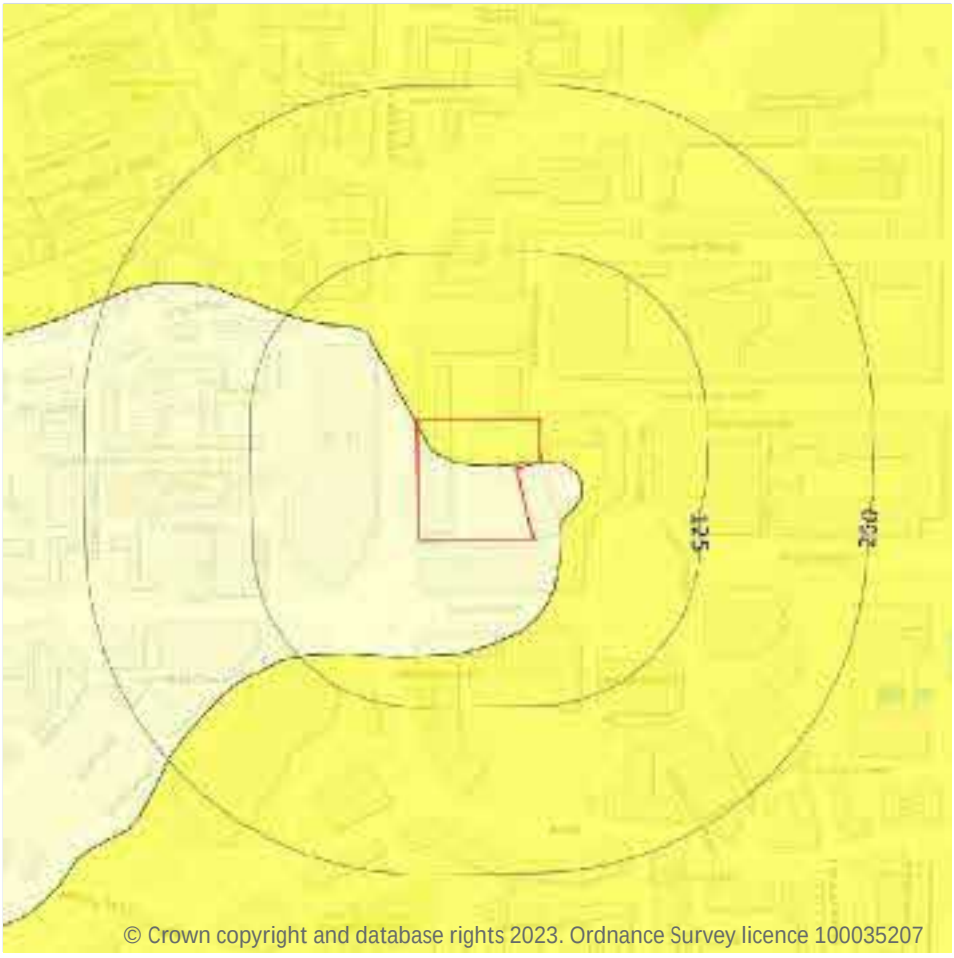
Features are displayed on the Natural ground subsidence - Compressible deposits map on page 113 >

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

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

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	2

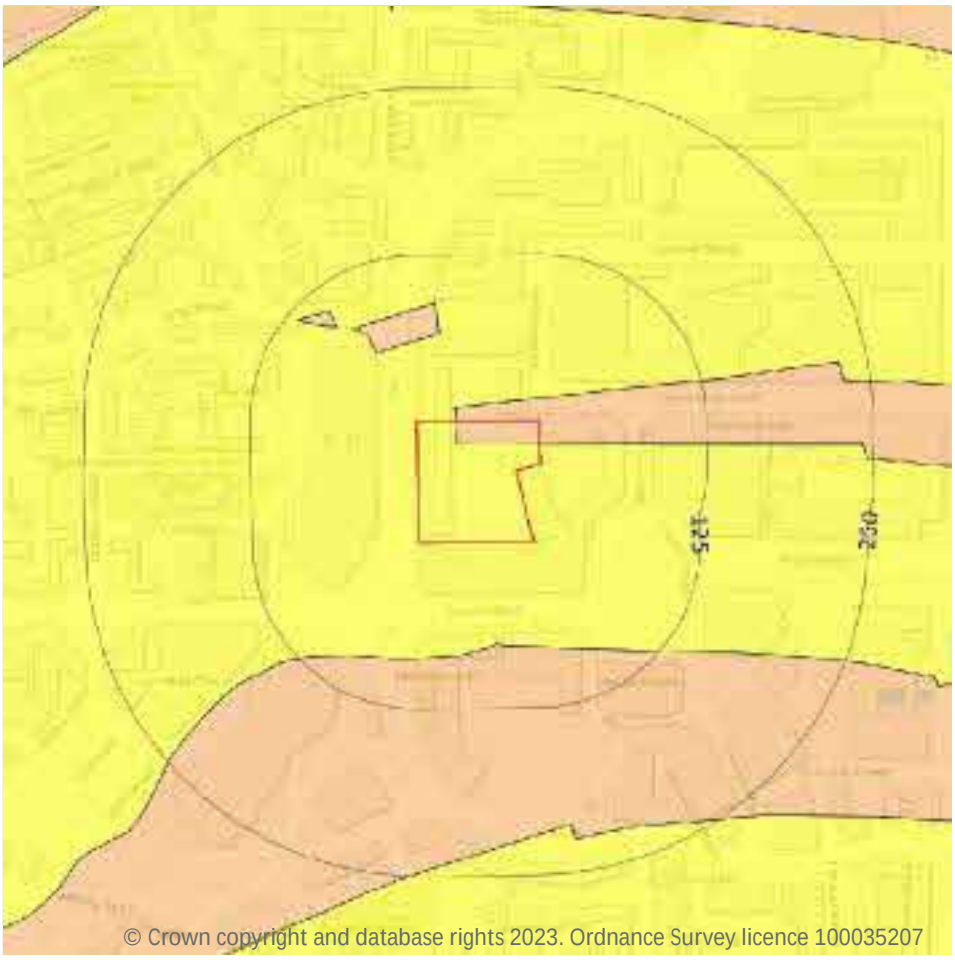
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 115 >

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

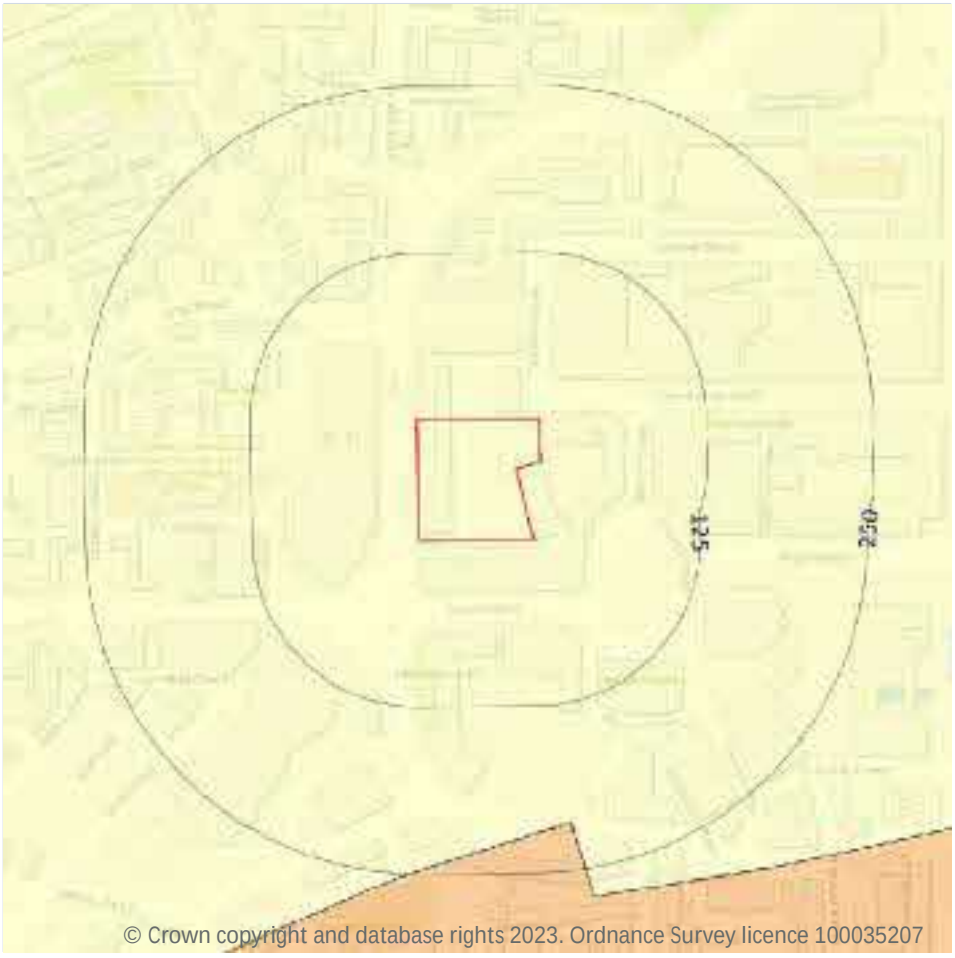
Features are displayed on the Natural ground subsidence - Landslides map on page 116 >

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



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

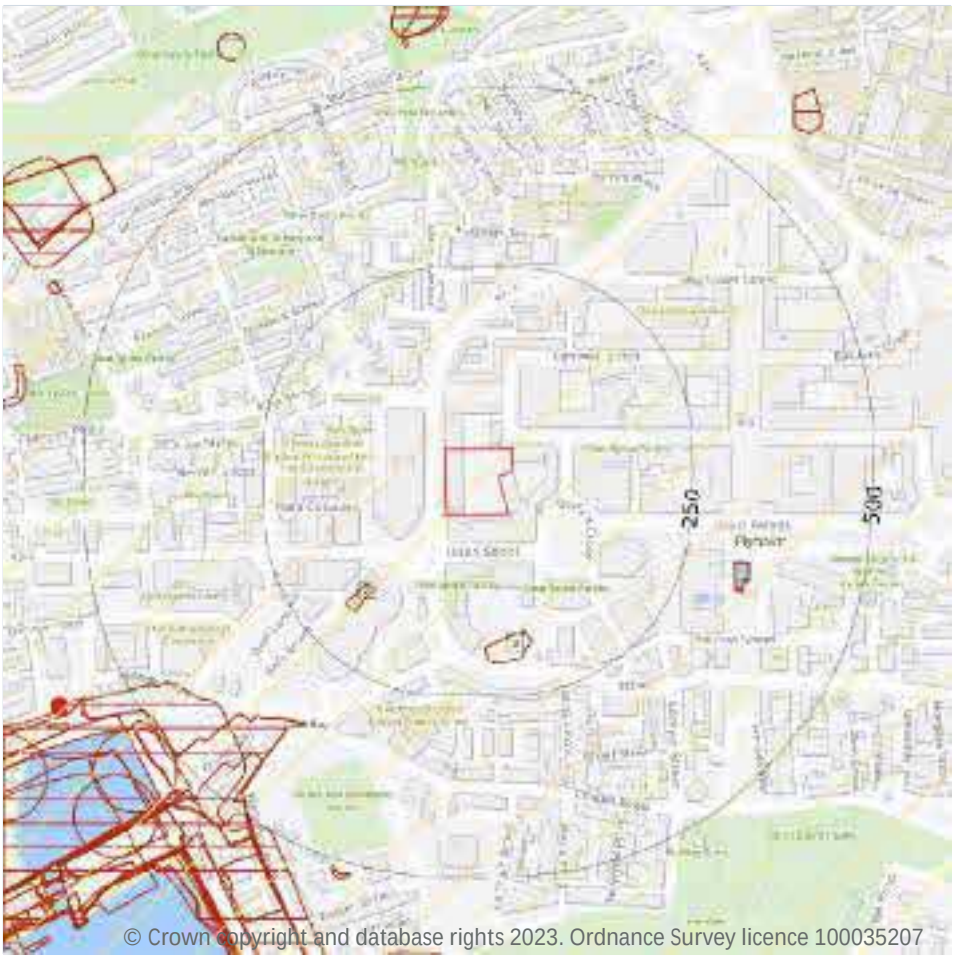
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 118 >

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	2

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Land Use	Year of mapping	Mapping scale
2	141m SW	Ponds	1867	1:10560
3	163m S	Unspecified Pit	1954	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	2

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 120 >

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
5	432m N	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

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	2

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
277m N	Stone
437m SW	Metals

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	1

Generalised areas that may be affected by historical tin mining.

Location	Details
On site	The site is within an area where tin mining is reported to have occurred. This does not mean that the site is definitely directly affected but further consideration of tin mining is advised. Further mining searches are available at Groundsure.

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

Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents
- BGS karst database (Point)
- BGS karst database (Line)
- BGS karst database (Area)

19.1 Natural cavities

Records within 500m	1

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.

Features are displayed on the Ground cavities and sinkholes map on page 125 >

ID	Location	Details	Source
A	57m W	Type: Sinkhole x 1 Superficial Geology: Estuarine muds Bedrock Geology: Middle & Upper Devonian	Simple Bibliography: Ove Arup and Partners Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	1

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

Features are displayed on the Ground cavities and sinkholes map on page 125 >

ID	Location	Mine Address	Mineral	Data source	Publisher
-	710m NW	Plymouth, Devon	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	ENVIRONMENTAL GEOLOGY STUDY OF THE PLYMOUTH-PLYMSTOCK AREA, TECH. REP. VOL.I	DOE

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	2

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.

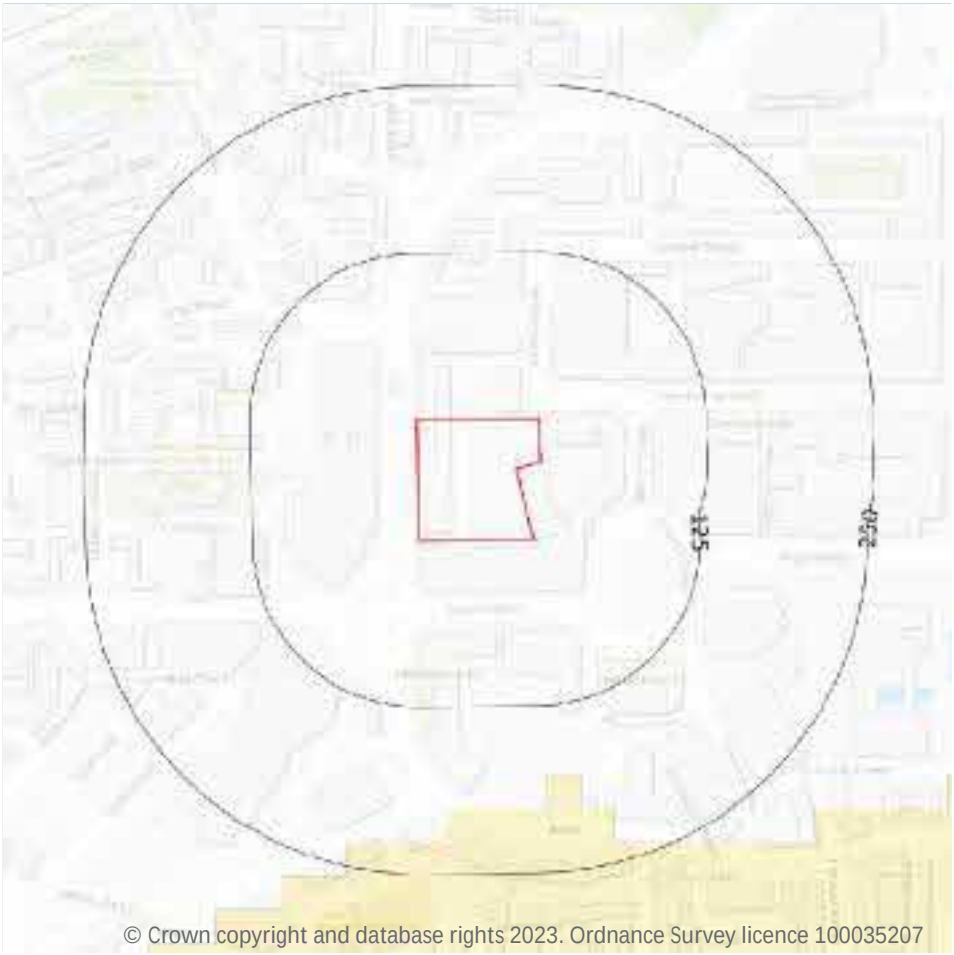
The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

Features are displayed on the Ground cavities and sinkholes map on page 125 >

ID	Location	Name	Reliability
A	61m W	-	
A	61m W	-	

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 128 >

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	15

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	2 - 4 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	5 - 7 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	35 - 45 mg/kg	5 - 7 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
5m S	45 - 60 mg/kg	7 - 9 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m N	35 - 45 mg/kg	5 - 7 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
20m SE	35 - 45 mg/kg	5 - 7 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
27m SW	45 - 60 mg/kg	7 - 9 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m SW	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m W	25 - 35 mg/kg	4 - 5 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

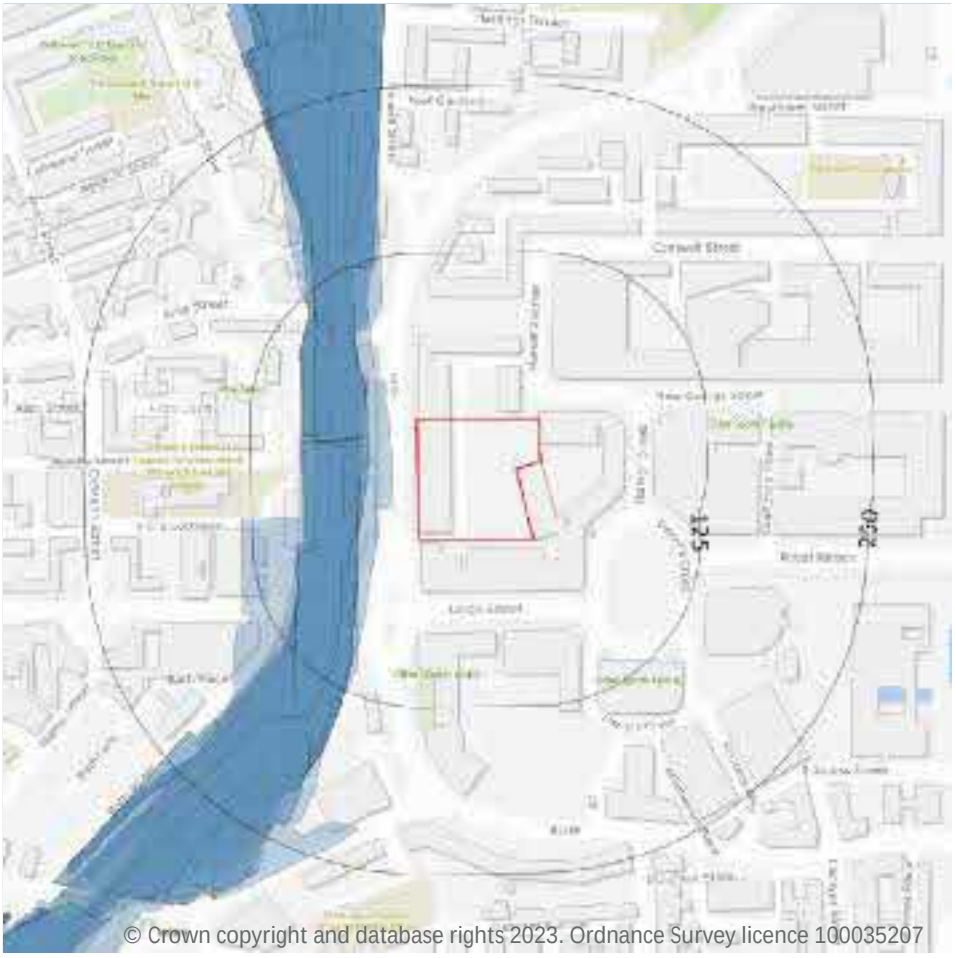
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	36

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 132 >

Location	Land Use	Year of mapping	Mapping scale
19m W	Railway	1893	-
36m W	Railway Sidings	1966	10560
36m W	Railway Sidings	1954	10560
36m W	Railway Sidings	1938	10560
39m NW	Railway Sidings	1920	10560
39m NW	Railway Sidings	1907	10560
39m NW	Railway Sidings	1938	10560
39m W	Railway Sidings	1919	10560
42m W	Railway	1886	-
44m W	Railway Sidings	1955	2500
44m W	Railway Sidings	1951	2500
44m W	Railway Sidings	1959	2500
44m W	Railway Sidings	1960	1250
44m W	Railway Sidings	1953	1250
44m W	Railway Sidings	1965	1250
44m W	Railway Sidings	1950	1250
45m W	Railway Sidings	1958	1250

Location	Land Use	Year of mapping	Mapping scale
45m W	Railway Sidings	1950	1250
45m W	Railway Sidings	1952	1250
45m W	Railway Sidings	1964	1250
46m W	Railway	1880	-
47m W	Railway Sidings	1971	1250
48m W	Railway Sidings	1907	2500
49m W	Railway Sidings	1895	2500
54m W	Railway Sidings	1938	10560
55m W	Railway Sidings	1914	2500
62m W	Railway Sidings	1914	2500
63m W	Railway Sidings	1933	2500
63m W	Railway Sidings	1933	10560
66m W	Railway Sidings	1895	2500
79m NW	Railway Sidings	1867	10560
89m W	Railway Sidings	1905	10560
95m SW	Railway Sidings	1868	2500
115m NW	Railway Sidings	1868	2500
138m NW	Railway Sidings	1933	10560
158m SW	Railway Sidings	1867	10560

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 ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Appendix C. PRELIMINARY UXO RISK ASSESSMENT

UNEXPLODED BOMB RISK MAP

zeticauxo

SITE LOCATION

Map Centre: 247229,54450

LEGEND

High: Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.

Moderate: Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.

Low: Areas indicated as having 15 bombs per 1000acre or less.

miltary	industry	UXO find
transport	dock	Luftwaffe targets
utilities	Bombing decoy	other

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

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

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

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

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 D. RISK PHASES & MATRICES

RISK PHRASES AND MATRICES

Classification of Probability of Risk	
Classification	Definition
High Likelihood	There may be a pollutant linkage present and an event appears very likely in the short term or almost inevitable in the long term; or there is already evidence of harm to receptor.
Likely	Pollutant linkage may be present, and it is probable that there will be a long term risk and possibly a short term risk.
Low Likelihood	Pollutant linkage may be present, and it is possible that there will be a long term risk, though not certain
Unlikely	Pollutant linkage may be present, but the circumstances are such that an event is improbable, even in the long term.
No Risk Identified	No contaminants identified above guideline values likely to pose a risk to human health, fauna, flora, the water resources or the future built environment.

Classification of Severity of Consequence	
Classification	Definition
Severe	Acute risks to human health Catastrophic damage to buildings and property Major pollution of controlled waters
Medium	Chronic risk to human health Pollution of sensitive controlled waters Significant effects on sensitive ecosystems or species Significant damage to buildings or structures
Mild	Pollution of non-sensitive waters Minor damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects Damage to non-sensitive ecosystems or species
None Identified	Damage to human health, and the wider environment not expected. Requirement for basic protective equipment during site works still required as good practice.

Risk Matrix of Probability and Consequence		Consequences				
		Severe	Medium	Mild	Minor	None
Probability of Risk	High Likelihood	Very High	High	Moderate	Low	Very Low
	Likely	High	Moderate	Low	Very Low	Negligible
	Low Likelihood	Moderate	Low	Very Low	Negligible	Negligible
	Unlikely	Low	Very Low	Negligible	Negligible	Negligible
	No Risk identified	Very Low	Negligible	Negligible	Negligible	Negligible

NOTES:

Contaminated Land Risk Assessment involves the matching of the identified potential sources of contamination to the receptors through the possible migration pathways. These links must be completed for there to be any risk associated with the site.

This assessment of pollutant linkages is presented in terms of the Source (S), Pathway (P) and Receptor (R) concept and applying a qualitative value judgement to this appraisal. The assessment assigns a level of risk to each SPR link based on the probability and potential consequence of the risk being realised. The scale of risk is based on matrices as presented in the tables.

Appendix E. GENERAL NOTES AND LIMITATIONS

General Notes

The report has been prepared for the exclusive use of the Client named in the document and copyright remains with Red Rock Geoscience Ltd (RRG). Prior written permission must be obtained to reproduce all or part of the report. It has been prepared on the understanding that you will only disclose its contents to parties directly involved in the current investigation, preparation, and development of the site. Further copies may be obtained with the Client's written permission, from RRG who retains the master copy of the report.

Reports are prepared for the specific purpose stated in the document and in relation to the nature and extent of proposals made available to RRG. The recommendations should not be used for other schemes on or adjacent to the site. The assessment of the factual data, where called for, is provided to assist the Client and his Engineer and/or Advisers in the preparation of the designs.

All assessments and recommendations should be forwarded to the relevant planning authorities for comment and approval prior to implementation.

Phase I Assessments

Phase I desk study reports are largely based on data supplied by third parties and is therefore interpreted in accordance with the guidance notes and limitations provided by the data supplier.

Site walkover comments are based on simple observation by the Engineer and do not include extensive environmental, geotechnical, or structural surveys.

Phase II Assessments

Phase II site investigation reports are based on the ground and groundwater conditions encountered in the exploratory holes, together with the results of field and laboratory testing in the context of the proposed development. There may be special conditions appertaining to the site, which have not been revealed by the investigation and which may not have been taken into account in the report. RRG cannot be responsible for any changes in ground conditions following completion of fieldwork (e.g. subsequent spillages, leakages, excavations, etc. on or adjacent to the site).

Positioning of exploratory holes depends on the existence of utility services, existing structures, and / or access restrictions.

Methods of design and/or construction other than those proposed or referred to in the report may require consideration during the evolution of the proposals and if this is the case further assessment of the geotechnical data appropriate to these methods would be required.

The accuracy of results reported depends upon the technique of measurement, investigation, and test used and these values should not be regarded necessarily as characteristics of the strata as a whole.

The evaluation and conclusions do not preclude the variation in ground conditions between the test holes. Hence this report should be used in this context and not be construed necessarily as a comprehensive characterisation of the entire site conditions.

The samples selected for environmental and geotechnical laboratory testing are prepared and tested by an UKAS accredited and when possible or necessary MCERTS accredited external laboratory.

Any unavoidable variations from specified procedures are identified in the report.

Whilst reports may have expressed an opinion on possible configurations of strata between or beyond exploratory holes, or on the possible presence of features based on visual, verbal, written, cartographical, photographic, or published evidence, this is for guidance only and no liability can be accepted for its accuracy.

Ground conditions should be monitored during the construction of the works by ground-workers and the recommendations of the report re-evaluated as necessary.

Any comments on groundwater conditions have been based on observations made at the time of the investigation, unless specifically stated otherwise. It should be noted, however, that the observations are subject to the method and speed of boring, drilling, or excavation and that groundwater levels will vary due to seasonal effects and rainfall.

Where the investigation has taken account of possible effects of gases from fill or natural sources within, below, or outside the site, assessment has been based on current guidance provided by the CIRIA 665 Publication.

Unless specifically stated, the investigation has not taken account of any environmental soil or water guideline values other than the current and approved guideline values for the United Kingdom. Where these are not available, others such as the Canadian Environmental Guidelines, the US EPA guidelines and/or European Union Drinking Water Standards may be used as indicative only.

Site-specific assessment criteria values have been calculated using the current CLEA UK model V1.07, published by the Environment Agency in 2015.