

CONTAMINATED LAND PHASE 1 ASSESSMENT

**GNG Foam Converters (Lancs) Ltd, Pennine
Industrial Estate, Todmorden Road, Littleborough**

HME CIVIL ENGINEERING CONSULTANTS

STRUCTURAL | ENVIRONMENTAL | GEOTECHNICAL



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1. INTRODUCTION

1.1 Appointment

- 1.1.1 HME Civil Engineering Consultants (HME) has been commissioned by James Campbell Associates to prepare a Phase 1 Preliminary Risk Assessment (PRA) for a parcel of land at former GNG Foam Converters site at Pennine Industrial Estate, Todmorden Road, Littleborough, OL15 9EG (hereafter referred to as 'the site').
- 1.1.2 The PRA will assess the potential risks associated with contamination considering a change of use to residential (with homegrown produce). The assessment is in accordance with current guidance for land affected by contamination (CLR11 and BS10175).
- 1.1.3 The site location and layout are presented on James Campbell Associates Drawings 24.3344 no's 1-10. Copies of these drawings are presented in Appendix A.
- 1.1.4 This report is solely for the use of the named client and their professional advisers, no liability to other parties is accepted. Should the client not act upon specific, reasonable advice contained in the report, no responsibility is accepted for the consequences.
- 1.1.5 In order to produce this assessment a Groundsure Enviro Insight report has been procured along with Historical Maps also from Groundsure Insights. These are interrogated throughout the report and presented in Appendix B

1.2 Proposed Development

- 1.2.1 This report has been prepared to support a planning application for the construction of a series of residential dwellings together with access, parking and private garden areas.
- 1.2.2 The proposed development layout for the site is presented on 'Proposed Site Plan' by James Campbell Associates Limited Drawing No: 24.3344.10, a copy of which is presented in Appendix A.

1.3 Objectives and Scope

- 1.3.1 The objective of this report is to provide a qualitative assessment of the potential risks from contamination and ground with consideration to the proposed end use residential (with homegrown produce).
- 1.3.2 To achieve the objective HME will undertake the following:

- Carry out a site inspection and collect photographs
- Review the relevant background information available for the site, including:
 - Recent Ordnance Survey Maps
 - Site Specific GroundSure Reports
 - Site Specific Historical Maps
 - Coal Authority Website
 - Drawings provided by James Campbell Associates Ltd
 - Zetica UXO Information
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development
- Establish areas of potential concern based on identified risks and/or potential risks

1.4 Limitations

- 1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. HME reserves the right to amend the conclusions and recommendations if further information becomes available.
- 1.4.2 However, it should be noted that much of the information has been derived from reports written by others and HME takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.
- 1.4.3 This report does not include an invasive plant species assessment.

2. SITE DESCRIPTION

2.1 Background

- 2.1.1 The site occupies a parcel of land within the Pennine Industrial Estate, situated to the South-East of Todmorden Road in Littleborough, Greater Manchester. Access to the site is gained directly from Todmorden Road, a primary route running through the area. The site lies approximately 0.5 km north-east of Littleborough town center and around 6.5km north-east of Rochdale. The surrounding area comprises a mix of commercial, light industrial, and residential land uses.
- 2.1.2 The National Grid Reference for the center of the site is approximately 394021, 416548. The site location is illustrated on James Campbell Associates Drawing No. 24.3344.10, a copy of which is included in Appendix A.

2.2 Site Layout and description

- 2.2.1 A site walkover was undertaken by an HME Engineer on 20/05/2025
- 2.2.1 The site comprises a former industrial unit with areas of hard standing, vegetation and existing structures. The site is occupied by a large former industrial building to the southeast of the site of brick and sheet metal construction. To the west of the building an area of tarmac/hard standing is present.
- 2.2.3 Surrounding the existing structure and hard standing areas, poorly vegetated land is present with sparse short grasses, bushes and exposed soils. Vehicles currently occupy the north-east of the site.
- 2.2.4 The western boundary is formed of a brick-built wall, the southern boundary is a large metal fence. The boundary to the east is a brick-built wall separating the site from the River Roch which is contained by walled construction on either side at this part of its route. The northern boundary comprises large trees and neighboring buildings.
- 2.2.5 Large trees occupy the area inside of the site boundary immediately adjacent to the northern boundary. Trees are also present outside the site boundary adjacent to the western boundary wall.
- 2.2.6 There was no visual or olfactory evidence for the presence of contamination during the site walkover.

2.3 Surrounding Land Use

- 2.3.1 The area the site occupies to the east of Todmorden road is exclusively industrial and commercial properties. Residential properties can be found immediately adjacent to the west of Todmorden road, and the general area has mixed land use.

3. SITE HISTORY

3.1 Historical Maps

Historical mapping and environmental records indicate that the site has been used for industrial purposes since the mid-20th century. The precise operations involved foam production which may have included storage and handling of chemicals. The below assessment has been undertaken utilizing the information purchased from Groundsure. These maps are included in Appendix B.

Table 1: Historical Map summary

Map Scale Type	Map Date	Scale	Key Observations
Small Scale	1851	1:10,560	The site itself is undeveloped, likely used for agricultural purposes with no buildings present. The surrounding area is predominantly rural, featuring open fields, sparse tree cover, and a few footpaths or cart tracks. The village of Littleborough is located to the south of the site with the railway station, church and other amenities present. A well is located to the north of the site, a foundry to the east and several mills are present within the general vicinity; indicating that the area is beginning to become industrialised.
Small Scale	1890 - 1891	1:10,560	The site shows early signs of boundary demarcation, and a structure is present in the southern portion of the site. The remainder of the site appears largely undeveloped. The area immediately adjacent to the site shows structures forming the southern boundary and Todmorden road forming the western boundary, but the other site bounds appear to be open rural land. The surrounding area shows further signs of urbanisation with a significant increase in the number of houses present. All the same surrounding infrastructure remains with additional roads to support the increase in housing stock. Some new Mills are recorded immediately to both the east and west of the site.
Large Scale	1891	1:2,500	The site itself is divided into two portions, the northern portion appears to be open land with tree borders and the southern portion is occupied by an L shaped configuration of buildings. The sites boundaries to the north and east appear to be open land, with one small structure adjacent to the far side of the River Roch. Todmorden road forms its western boundary with open land and some residential buildings adjacent to the road. The sites southern boundary is formed by water street and residential buildings. Land associated with Ebor Saw Mill forms the sites southeastern boundary. In the surrounding area several mills are recorded, along with a iron foundry and residential buildings and infrastructure associated with the village of Littleborough in the form of roads and railway.
Small	1890 - 1892	1:10,560	No significant change.

Scale			
Small Scale	1908 - 1911	1:10,560	Further detail is added to the configuration of buildings within the site boundary, however, no significant change to the site itself is visible. Further development to the surrounding area can be seen with the presence of additional housing, a school, park, cricket ground and other amenities added to the village of Littleborough. Several air shafts are recorded between 500m-750m of the site located to the south, east. A Gas works is recorded approximately 500m to the west of the site.
Small Scale	1910 - 1911	1:10,560	No significant change.
Large Scale	1910	1:2,500	No change to the site itself, although trees are no longer recorded. The site borders remain unchanged with the structure forming the southeastern boarder now noted as a timber yard. Additional residential properties appear to have been constructed adjacent to the western side of Todmorden Road. In the surrounding area significant development of the village of Todmorden has taken place with the addition of a lot of housing and associated infrastructure in the form of roads, churches and schools. The railway remains in its previous configuration.
Small Scale	1928-1931	1:10,560	The site appears to host the same building configuration as previous maps, the annotation "mills" is placed to the east of the site indicating the sites former use. The surrounding area has become heavily developed with residential estates, public buildings, and expanded transport infrastructure. The previously recorded air shafts are now called 'old air shaft' and further old airshafts are recorded.
Large Scale	1928- 1930	1:2,500	The configuration of buildings on site remains the same, the northern portion of the site is now recorded as "tennis ground". The surrounding boundaries remain much the same, the timber yard recorded in the southeastern boundary has now been extended to occupy the majority of the eastern boundary. In the surrounding area the village of Littleborough has continued to develop with further buildings added.
Large Scale	1937	1:2,500	No significant change to the site itself or its boundaries. Further housing added to the village of Littleborough.
Small Scale	1938	1:10,560	No significant change.
Small Scale	1949	1:10,560	No significant change.
Large Scale	1960-1961	1:1,250	The buildings in the southern portion of the site remain largely unchanged with further detail (potentially extensions) added. The northern portion of the site is no longer occupied by tennis grounds and instead has a long structure occupying it denoted as 'works'. 'Works' also occupy the site's entire eastern boundary with a large structure present. The northern, southern and western boundaries remain unchanged. In the surrounding area, further housing sock has been added. A mill adjacent to the eastern side of the railway line is now described as 'disused'
Small	1968	1:10,560	The configuration of buildings on site has changed with a new structure present in the northern portion and

Scale			a change to the building occupying the southern section. The area to the northern boundary of the site remains unoccupied but the surrounding areas to the east and south are occupied by industrial buildings described as 'works'. Residential properties appear to be adjacent to Todmorden Road to the site's western boundary. Significant change has happened to the surrounding area with additional housing and supporting road infrastructure added to the west and additional industrial buildings occupying the area to the east.
Large Scale	1961-1964	1:2,500	No significant change.
Large Scale	1961-1965	1:1,250	No significant change.
Large Scale	1973-1976	1:1,250	Map is very poor quality, unable to identify changes.
Large Scale	1975-1976	1:1,250	The site itself appears unoccupied. A haulage depot now occupies its northern boundary. No other changes are identifiable due to the quality of the map.
Small Scale	1976-1979	1:10,000	The site itself appears empty. All site boundaries are occupied now by industrial land use to the north, east and south with the development described as 'works' extended. Residential properties remain to the west of the site bordering Todmorden Road. Further residential and industrial developments are present in the surrounding area.
Large Scale	1976-1977	1:1,250	Map is very poor quality, unable to identify changes.
Large Scale	1983-1988	1:1,250	The site remains empty with the addition of a small structure in its south eastern portion, it is now labelled as 'depot'. The surrounding west, north and eastern boundaries are unchanged. Water street and the houses on it, forming the former southern boundary appear to have been replaced with 'Harvey's court'. Little change is noted to the surrounding area.
Small Scale	1989	1:10,000	One small structure occupies the southeastern portion of the site. There is no significant change to the surrounding areas.
Large Scale	1988-1992	1:1,250	No change to the site itself. The configuration to the depot forming the northern boundary has changed with open land forming the border. The boundaries to the west and south appear unchanged. It is not possible to tell if changes to the eastern boundary have taken place due to the quality of the map. Some of the housing in the surrounding area has been replaced with new housing and the area for residential properties has been extended.
Large Scale	1989-1992	1:1,250	No significant change overall. The eastern boundary buildings have been reconfigured and these are still described as 'works'.
Large Scale	1992	1:1,250	No significant change.
Large Scale	1993	1:1,250	No significant change. A new building occupies the sites northern boundary. Harvey's court to the south of the site is now called 'Olive Stanring Court"

Small Scale	2001	1:10,000	The style of the map has changed significantly from the most recent one at this resolution in 1989, however, no significant change appears across both the site or the surrounding area.
Large Scale	2003	1:1,250	The style of the map has changed significantly from the most recent one at this resolution in 1993, however, no significant change appears across both the site or the surrounding area.
Small Scale	2010	1:10,000	No significant change.
Small Scale	2025	1:10,000	No significant change.

3.2 Summary

In summary, throughout the sites mapped history it has had mixed industrial and recreational land use. The surrounding area, particularly the area to the east of Todmorden Road has been used predominantly for industrial purposes with several mills, works, depots and foundries recorded. The area to the west of Todmorden road has been mainly residential in the form of housing in the village of Littleborough.

4. ENVIRONMENTAL SETTING

4.1 Geology

- 4.1.1 The geological conditions at the site have been interpreted using data from the Groundsure Insight Report, which sources information from the British Geological Survey (BGS).

4.1.2 Made Ground

- 4.1.3 There is no specific record of made ground beneath the site according to the Insight report; however, given the industrial use of the site (former depot and unspecified works), the presence of made ground across parts of the site is likely.

4.1.4 Superficial Geology

- 4.1.5 According to the BGS and Ground Sure report superficial deposits in the form of alluvium are present at the site. Alluvial fan deposits are also present approximately 50m to the west of the site, along with the presence of glacial till around 50m to the east of the site. Further site-specific investigation would be required to confirm the nature and thickness of these deposits.

4.1.6 Bedrock Geology

- 4.1.7 The underlying bedrock geology has been identified as Woodhead Hill Rock, characterised as Sandstone. Pennine Coal Measures are present within 250m of the site, which commonly consist of interbedded sandstones, mudstones, and siltstones in this region.

4.1.8 Faults / Linear Features

- 4.1.9 No active geological faults or major linear features are recorded on site. There are no nearby mapped bedrock faults within the immediate vicinity (500 m) of the subject site according to the Groundsure Insight Report.

4.2 Contaminated Land Register

- 4.2.1 There are no known entries for the site under Part 2A of the Environmental Protection Act 1990.

4.3 Mining & Ground Stability

- 4.3.1 According to the Mining and Remediation Authority online map viewer, the site exists within the coal mining reporting area. The area surrounding the site falls within the following categorisation:

- High risk development area
- Surface coal resource area
- Probable shallow coal mine workings
- Coal outcrops

4.3.2 Whilst the site itself according to the BGS is not immediately underlain by coal measures it is recommended that a full coal mining risk assessment is undertaken and the relevant plans and records sourced from the mining and remediation authority.

4.4 Ground Workings and Ground Stability

4.4.1 The Groundsure Insight Report identifies a number of historical surface ground workings within the local area. Specifically, there are four records of such features located within 500 m of the site. The nearest is an “Unspecified ground workings” 263m East of the site first mapped in 1891. While the nature of this feature is not fully described, its age and location indicates this could be related to historical coal workings. As it is over 250m from the site further assessment is not required.

4.5 Hydrogeology

4.5.1 According to Environment Agency classifications included in the Insight Report:

- The superficial deposits beneath the site are designated as Secondary A aquifers. These are permeable layers capable of supporting local water supplies and may provide base flow to nearby rivers or streams.
- The underlying bedrock is also classified as a Secondary A aquifer, sharing similar hydrogeological characteristics.

4.5.2 The site is not located within any groundwater Source Protection Zone (SPZ), reducing regulatory sensitivity.

4.5.3 There are no recorded groundwater abstractions within 250 m of the site. The closest recorded abstractions (for potable and surface water use) lie within the broader 500–2000 m radius.

4.5.4 The site is assessed as being at low risk of groundwater flooding, suggesting favourable conditions for development in relation to groundwater impacts.

4.6 Hydrology

4.6.1 There are no surface water features recorded directly on the site itself. However, the Groundsure Insight Report notes 19 water features within 250 m. The closest and most significant are the River Roch which is immediately adjacent to the site’s eastern boundary and the Rochdale Canal which is approximately 150m to

the east. Both are notable watercourses and may be relevant to surface water management and environmental risk pathways.

4.6.2 There are no recorded licensed discharges to controlled waters within 250 m of the site. Three are recorded within 500m of the site.

4.6.3 The site is located within Flood Zone 3 according to Environment Agency (EA) mapping. This indicates a high probability of flooding from rivers or the sea, under both current and future climate scenarios.

4.7 Contaminated Land & Landfill Activities

4.7.1 According to the Groundsure Insight Report, there are no historical or current landfill sites or licensed waste management facilities recorded on-site or within 250 m.

4.7.2 The Ground sure Insight Report identified one Environment Agency waste exemption within the site boundary. Therefore, indicating past activities involving permitted low-risk waste handling or storage in accordance with Environment Agency exemptions.

4.7.3 The Environment Agency (EA) records five pollution incidents within 250 m of the site and a further two within 500m of the site.

4.7.4 The closest was 20m from the sites southern boundary in 2003, the water impact is recorded as category 3 (minor) and no further details of the pollutant are provided.

4.7.5 The site is not located within proximity to any high-risk industrial sites, including:

- NIHHS (National Inventory of Hazardous Substances Sites)
- COMAH (Control of Major Accident Hazards) facilities

4.7.6 The Groundsure Insight Report identifies 179 potentially contaminative historical industrial land uses within 500 m of the site. A review of the closest examples within 50 m is provided in Table 2 below:

Table 2: Contaminative historical industrial land uses

Location	Use / Feature	Date Range
On site	Unspecified works	1968
On site	Sawmills	1911
3m South	Unspecified Mill	1938-1949

4m South	Unspecified Mill	1928
5m South	Unspecified works	1976-1989
26m South West	Unspecified Mill	1890-1892
58m South East	Railway sidings	1911

4.7.7 These features may represent legacy sources of contamination including hydrocarbons, solvents, metals, and asbestos, and warrant consideration in any intrusive investigation strategy.

4.7.8 In addition to historical features, the Insight Report identifies 24 current industrial land uses within 250 m. The nearest is an industrial coating and finishings service operation located 28 m north of the site. These activities are considered unlikely to have had a direct impact, although they contribute to the overall industrial character of the area.

4.8 Sensitive Land Uses

4.8.1 The site is not located within or near any designated statutory ecological receptors, such as Sites of Special Scientific Interest (SSSIs), Special Protection Areas (SPAs), or Special Areas of Conservation (SACs). As such, there are no sensitive ecological receptors that would elevate the environmental risk classification of the site.

4.8.2 The site is not situated within a designated Nitrate Vulnerable Zone (NVZ). This suggests that nutrient management restrictions under the Nitrates Directive do not apply and that the site is not within a particularly sensitive agricultural groundwater setting.

4.9 Radon

4.9.1 According to the UK Radon Maps published by the UK Health Security Agency (UKHSA) and the British Geological Survey (BGS), the site spans two radon potential zones.

- The western portion of the site falls within an area where between 10% and 30% of homes are estimated to exceed the radon Action Level.
- The eastern portion lies within a lower risk area, where the estimated exceedance rate is between 1% and 3%.

4.9.2 In accordance with Building Regulations (Approved Document C) and guidance from UKHSA, full radon protection measures are required for any new residential development on this site. These measures typically include:

- Installation of a radon barrier membrane beneath the building footprint
- Provision for underfloor ventilation or sump systems for future activation, if necessary

4.9.3 While radon is a naturally occurring radioactive gas, it is a significant health risk when allowed to accumulate in indoor air over time. Therefore, design-phase mitigation should be addressed by the project architect and structural engineer in consultation with Building Control.

4.10 Unexploded Ordnance (UXO)

4.10.1 According to the regional unexploded bomb risk mapping included in the Groundsure Insight Report, which references data from specialist provider Zetica, the site is located in an area of LOW risk from Unexploded Ordnance (UXO) associated with aerial bombing during the Second World War.

4.10.2 Given the low-risk rating and the absence of historical indicators (e.g., former military use, wartime bomb damage, strategic industrial targeting), no further UXO assessment is considered necessary at this stage.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

- 5.1.1 This section identifies the potential sources of contamination, the relevant pathways, and the associated receptors that may be present or affected as part of the redevelopment of the site. This assessment has been undertaken with specific consideration for the proposed residential end use with potential for homegrown produce, which carries a heightened sensitivity to contamination.
- 5.1.2 A preliminary conceptual site model (CSM) has been developed and is presented in Appendix C, providing a qualitative overview of:
- Potential sources of contamination: Historical or current land uses both on-site and nearby that may have introduced pollutants.
 - Pathways for contamination migration: Mechanisms through which contaminants may travel from source to receptor, including human exposure routes and environmental transport processes.
 - Potential receptors: Future site users (residents), controlled waters (e.g., groundwater or surface water), the wider environment, and property/buildings.

5.2 Potential Sources of Contamination

- 5.2.1 The historical review indicates that the site was previously occupied by industrial uses. Aerial imagery confirms the site's longstanding use for commercial or industrial purposes. These land uses are commonly associated with a range of potential contaminants such as hydrocarbons, solvents, heavy metals, and asbestos-containing materials (ACMs).
- 5.2.2 The Groundsure Insight Report also identifies multiple potentially contaminative land uses within 250 m of the site, including former mills, garages, tanks, and railway infrastructure, several of which are located within 100 m. These off-site activities present a risk of groundwater or soil contamination migrating laterally onto the site.
- 5.2.3 While the Insight Report did not identify any active or historical landfills on site, it did record one Environment Agency waste exemption within the site boundary. This indicates a past activity that may have involved the handling or storage of waste under exempt conditions. In addition, there are 14 waste exemptions listed within 500m, suggesting past activities involving potentially unregulated material storage or movement in the near vicinity.

5.2.4 The site is currently surfaced with tarmacadam, and the presence of granular made ground beneath this is likely. The origin and composition of this material are unknown but may include demolition waste or fill materials that could contain elevated concentrations of metals, PAHs (polycyclic aromatic hydrocarbons), petroleum hydrocarbons, or asbestos.

5.3 Potential Contaminants of Concern

5.3.1 Based on the site's historical uses and surrounding context, the following classes of contaminants may be of concern:

- Metals and metalloids (e.g., lead, arsenic, copper)
- Petroleum hydrocarbons (e.g., diesel, lubricating oils)
- PAHs (from coal storage, wood processing, or fuel combustion)
- Volatile organic compounds (VOCs) (from industrial solvents or degreasers)
- Asbestos-containing materials (ACMs)
- Ground gases (e.g., methane or carbon dioxide from made ground or nearby landfills)

5.4 Potentially Significant Contaminants of Concern

5.4.1 Based on the site's industrial history and proximity to historical contaminative land uses, a range of potentially significant contaminants may be present in soils or shallow groundwater. These have been identified with reference to typical contaminants associated with former mills, works, vehicle-related activities, and made ground.

5.4.2 The following list summarises the key potential contaminants of concern (COCs):

Table 3: Potential Contaminants of Concern

Inorganics & Metals	Organic Compounds	Other Parameters
Arsenic	Polycyclic Aromatic Hydrocarbons (PAHs)	pH
Cadmium	Total Petroleum Hydrocarbons (TPH-CWG)	Asbestos

Chromium	Phenols	Sulphate
Copper	Cyanide	
Lead		
Mercury		
Nickel		
Selenium		
Zinc		

- 5.4.3 This list provides a broad but non-exhaustive range of contaminants potentially relevant to the site. It should be noted that actual contaminants may vary depending on the nature, extent, and composition of made ground and localised site activities. Further investigation may reveal additional substances of concern.

5.5 Ground Gas Considerations

- 5.5.1 Should the site investigation reveal a significant thickness of made ground (>3 m) or the presence of highly organic fill materials, ground gas monitoring and risk assessment may be warranted, in line with CIRIA C665 guidance.
- 5.5.2 The site lies within a Coal Authority 'High Risk' Development Area, the proximity to coal outcrops and shallow coal workings justifies a precautionary Coal Mining Risk Assessment to confirm the absence of mining-related hazards.
- 5.5.3 Based on current information, the risk from coal-related ground gas is considered to be low, and no further assessment is required unless conditions identified during site investigation indicate otherwise. However, suitable monitoring and protection measures will need to be in place for any intrusive investigation.

5.6 Potential Pathways

5.6.1 The likelihood of risk to receptors is governed by the existence of viable contaminant-pathway-receptor (C-P-R) linkages. With respect to the proposed redevelopment of the site for residential use with homegrown produce, the following human health exposure pathways have been identified:

- Dermal contact with contaminated soils (e.g., during gardening or play)
- Ingestion of contaminated soils or homegrown vegetables (e.g., due to uptake of contaminants)
- Inhalation of contaminated dust or vapours from impacted soils or made ground, particularly during groundworks or dry weather
- Leaching of contaminants into soil pore water, potentially affecting plant health and uptake into homegrown produce.
- Indoor inhalation of ground gases (e.g. methane, carbon dioxide) or organic vapours (e.g. VOCs) that could migrate from made ground into residential buildings via permeable soils or service conduits.
- Vertical migration of contaminants via dissolution or suspension in percolating rainwater, potentially reaching shallow groundwater and aquifers.
- Lateral migration of leachate in perched water through more permeable lenses in the made ground or natural strata, with potential to affect both on-site and off-site receptors. Subsurface services, piling, and foundation structures may act as preferential pathways.
- Direct contact with buried services (e.g. water pipes, ducts) by aggressive contaminants (e.g. hydrocarbons, sulphate) may pose a corrosion or integrity risk.
- Building materials in contact with elevated levels of sulphate or extremes of pH may be at risk of degradation, particularly affecting concrete and masonry elements.

These pathways will form the basis of the conceptual site model (CSM) and require further consideration in any subsequent Phase 2 intrusive investigation.

5.7 Potential Receptors

5.7.1 The following site-specific receptors may be affected by contamination depending on the viability of source–pathway–receptor linkages:

5.7.2 Future Site Users

5.7.3 The proposed end-use of the site is residential with potential for homegrown produce. As such, future residents represent a highly sensitive receptor group, particularly children and those engaging in gardening activities.

5.7.4 Key risks include:

- Ingestion of contaminated soils or homegrown vegetables (particularly with uptake of metals or organic contaminants).
- Inhalation of dust, vapours, or fibres (including asbestos, if present).
- Dermal contact with contaminated soils during recreational or gardening activities.

5.7.5 These exposures are most relevant in garden areas, open spaces, and potentially under unsealed surface treatments.

5.7.6 The inhalation of ground gases or vapours indoors is also a concern, particularly if significant made ground or volatile contaminants are present beneath future buildings.

5.7.7 Construction Workers

5.7.8 Construction and groundwork personnel may encounter contaminated materials during shallow excavations, particularly in made ground. Asbestos-containing materials (ACMs), if present, may become airborne during disturbance, posing a respiratory hazard.

5.7.9 The short duration of exposure and use of standard PPE and robust site-specific RAMS (Risk Assessments and Method Statements) are generally expected to mitigate risk from most contaminants. However, heightened caution is warranted in the presence of asbestos or hydrocarbon-impacted soils.

5.8 Off-Site Receptors

5.8.1 Surrounding land uses include residential properties immediately to the south and west of the site. These off-site human receptors may be at risk from airborne pollutants—particularly asbestos fibres or contaminated dust—should these be released during demolition or site development activities.

5.9 Flora

5.9.1 Vegetation introduced as part of landscaping schemes or ecological mitigation may be impacted by soil contaminants. Certain heavy metals (e.g., lead, arsenic, zinc) are known to be phytotoxic at elevated concentrations, potentially inhibiting plant growth and affecting soil health.

5.10 Buildings & Services

- 5.10.1 Subsurface services (e.g., water supply, drainage, and utility infrastructure) may be at risk from direct contact with organic contaminants, such as hydrocarbons and solvents, which may degrade protective coatings or cause long-term corrosion. This is particularly relevant in the presence of volatile or aggressive substances in made ground.

5.11 Controlled Waters

- 5.11.1 There are no surface water features directly on-site, but the Groundsure Insight Report identifies 19 features within 500 m, including:

- River Roch immediately adjacent to the eastern boundary of the site
- Rochdale canal approximately 150m east of the site.

These features represent potential surface water receptors, especially if contaminant migration occurs via runoff or lateral leachate movement.

- 5.11.2 Both the superficial deposits and underlying bedrock are classified as Secondary A Aquifers by the Environment Agency. These aquifers are permeable and capable of supporting local water supplies and may also contribute to base flow in nearby streams or brooks. As such, they are considered sensitive controlled water receptors.

5.12 Preliminary Conceptual Model

- 5.12.1 Based on the identified sources, pathways, and receptors, a Preliminary Conceptual Site Model (CSM) has been developed. It outlines the plausible pollutant linkages that may be active or potentially active under the proposed site redevelopment for residential use with homegrown produce.
- 5.12.2 The identified source-pathway-receptor linkages are summarised in Appendix C. These form the basis of the site's preliminary risk assessment and guide recommendations for further investigation.

5.13 Potentially Significant Pollutant Linkages

- 5.13.1 A number of potentially significant pollutant linkages (SPRLs) have been identified based on the desk-based assessment. These relate primarily to risks affecting human health, controlled waters, and buildings/services.
- 5.13.2 **Link 1:** Human health (on-site and off-site) – Direct exposure to made ground or contaminated soils via ingestion, inhalation of dust, or dermal contact, potentially affecting both residents and domestic pets.

- 5.13.3 **Link 2:** Inhalation of windblown particulates – Potential for airborne migration of contaminated dust or asbestos fibres, affecting both on-site users and adjacent residential areas.
- 5.13.4 **Link 3:** Contamination of homegrown produce – Uptake of contaminants by vegetables grown in site soils, potentially leading to bioaccumulation.
- 5.13.5 **Link 4:** Ingestion of contaminated produce – Direct human exposure through dietary intake of crops grown in impacted soil, especially relevant for sensitive populations (e.g., children).
- 5.13.6 **Link 5:** Inhalation of ground gases – The presence of made ground and underlying coal measures introduces the potential for ground gas generation (e.g., methane, carbon dioxide). If ground gases migrate into indoor environments, they may pose a risk to human health via inhalation, particularly in enclosed spaces with poor ventilation.
- 5.13.7 **Link 6:** Inhalation of volatile organic compounds (VOCs) – In the presence of petroleum hydrocarbons or solvents, volatilisation into indoor air may occur. Vapour intrusion pathways could lead to chronic exposure risks for future residents if VOCs migrate into buildings.
- 5.13.8 **Link 7:** Property and ecological receptors – Direct contact between construction materials, underground utilities, flora, and fauna with elevated concentrations of contaminants (e.g., sulphates, hydrocarbons, metals) could result in:
- Material degradation or corrosion
 - Phytotoxicity to landscaped flora
 - Harm to soil invertebrates or microbiota
- 5.13.9 **Link 8:** Lateral leaching to surface water – Dissolution or suspension of contaminants within soil pore water may result in lateral migration within perched water bodies. Potential pathways include permeable layers in the made ground or natural strata, and man-made features such as underground services, pile foundations, or utility trenches. These could allow contaminants to reach on-site or off-site surface water receptors, including River Roch and nearby drainage features.
- 5.13.10 **Link 9:** Leaching to groundwater – Vertical migration of contaminants through the soil profile, particularly in areas lacking a cohesive clay layer (e.g., Glacial Till), could lead to impacts on the Secondary A aquifer within the bedrock. Structural features such as deep foundations or piles may provide preferential pathways for contaminant movement, increasing the risk to controlled waters.

5.14 Site Investigation Requirements

5.14.1 The identified potential pollutant linkages represent plausible risks that warrant further assessment. A Phase 2 intrusive site investigation is recommended to:

- Characterise ground conditions
- Confirm the presence or absence of contamination
- Assess the viability and severity of each pollutant linkage
- Support the development of appropriate remediation or mitigation strategies (if required)

The scope of investigation should be designed in accordance with CLR11, BS10175, and CIRIA C665 guidance, tailored to the proposed residential end-use with homegrown produce.

6. RECOMMENDATIONS

6.1 Introduction

- 6.1.1 Based on the findings of this Preliminary Risk Assessment, potential risks to human health, controlled waters, flora, fauna, and property (including buried services) have been identified. These risks are primarily associated with the presence of made ground, the site's historical industrial uses, and possible ground gas generation.

6.2 Intrusive works

- 6.2.1 It is therefore recommended that a Phase 2 Intrusive Site Investigation be undertaken. This investigation should aim to:
- Characterise shallow ground conditions
 - Confirm the presence and extent of contamination and ground gas
 - Assess potential pollutant linkages identified in the conceptual site model
 - Provide sufficient geotechnical data to support foundation design for the proposed residential redevelopment
 - Establish the groundwater conditions on site

6.3 Site Investigation

- 6.3.1 The proposed investigation should include the drilling of boreholes across the site to confirm stratigraphy and assess the depth, nature, and variability of made ground. This will help identify any significant contamination or ground gas generation potential.
- 6.3.2 The boreholes should be positioned to cover areas of proposed garden spaces, open areas, and building footprints, with consideration for former structures and suspect contamination zones.
- 6.3.3 In-situ geotechnical strength testing should be undertaken during the drilling programme. Soil samples should be recovered for both chemical and geotechnical laboratory analysis.
- 6.3.4 All samples intended for chemical analysis must be:
- Collected in appropriate containers
 - Immediately stored in pre-cooled cool boxes

- Dispatched to the laboratory within 24 hours to maintain integrity
- 6.3.5 The investigation should be supervised by a suitably qualified geoenvironmental engineer, responsible for logging ground conditions and managing sample handling protocols.
- 6.3.6 Due to the potential presence of historical coal mine workings beneath the site the engineer conducting the investigation should ensure that appropriate ground gas monitoring measures are in place to alert the site team of the release of related vapours. Appropriate drilling methods should be undertaken to reduce the risk presented by this potential hazard.

6.4 Ground Gas Considerations

- 6.4.1 Should the investigation identify:
- An absence of natural superficial clays
 - Made ground exceeding 3 m in thickness
 - Presence of organic-rich strata (e.g., peat)

Then additional ground gas monitoring (in accordance with CIRIA C665) may be required to assess risks from methane, carbon dioxide, and volatile compounds.

6.5 Laboratory Testing

- 6.5.1 Following review of site conditions, a targeted selection of soil samples should be submitted for analysis of the potentially significant contaminants listed in Table 2 of this report. These include heavy metals, PAHs, TPHs, asbestos, sulphate, and others.
- 6.5.2 If visual or olfactory evidence of contamination is encountered (e.g., staining, odour, or oily residues), additional sampling and testing should be undertaken at the discretion of the supervising engineer.
- 6.5.3 Samples may also be submitted for geotechnical testing, including classification tests, shear strength, and sulphate/pH, to inform foundation and pavement design options.
- 6.5.4 All laboratory testing should be carried out by a UKAS-accredited laboratory, and for environmental samples, to MCERTS standards where applicable.

6.6 Data Assessment and Reporting

- 6.6.1 Upon completion of the investigation, results will be assessed as part of a Quantitative Risk Assessment (QRA). This will involve:

- Updating the Conceptual Site Model (CSM)
- Confirming or refuting plausible pollutant linkages
- Recommending any required remedial measures or design mitigation

The findings will support planning condition discharge, development design, and regulatory engagement.

6.7 Data Analysis and Assessment

6.7.1 The results from laboratory testing will be used to:

- Confirm or eliminate the potential pollutant linkages identified in the Preliminary Conceptual Site Model
- Quantify contaminant concentrations in relation to appropriate assessment criteria (e.g. Soil Guideline Values, GACs)
- Assess risks to human health, controlled waters, buildings, and services

6.7.2 Additionally, the data will support a geotechnical assessment to inform suitable foundation design options, including:

- Ground bearing capacity
- Sulphate classification for buried concrete
- Potential for ground movement

6.7.3 All assessments will be carried out in accordance with current UK legislation and guidance, including:

- BS10175:2011+A2:2017 (Investigation of potentially contaminated sites)
- CLR11 (Model procedures for the management of land contamination)
- CIRIA C665 (Ground gas risk assessment)
- EA Land Contamination Risk Management (LCRM) guidance

6.8 Reporting

6.8.1 A comprehensive Site Investigation & Ground Assessment Report will be prepared upon completion of the works. This will include:

- Description of fieldworks and sampling methodologies
- Full presentation and interpretation of laboratory results

- Updated Conceptual Site Model
- Quantitative Risk Assessment (QRA) outputs
- Recommendations for further actions, remediation (if required), and development considerations

6.9 Other Considerations

6.9.1 To inform surface water management strategies, it may be necessary to undertake soakaway testing in accordance with BRE Digest 365. These results will support the design of sustainable drainage systems (SuDS).

6.9.2 In addition, it is recommended that the developer:

- Consult with the local water utility provider
- Complete a UK Water Industry Research (UKWIR) risk assessment for water pipe material selection, based on the contamination profile of site soils

This ensures that the selected materials (e.g., barrier pipe vs. standard MDPE) are compatible with soil conditions, safeguarding long-term service integrity.

6.9.3 Due to the assessed risk presented by historical mine workings it is recommended that a coal mining risk assessment is undertaken to establish the residual risk presented by workings beneath or adjacent to the site. The proposed ground investigation may need to extend to suitable depths to negate the presence of voids below the site.

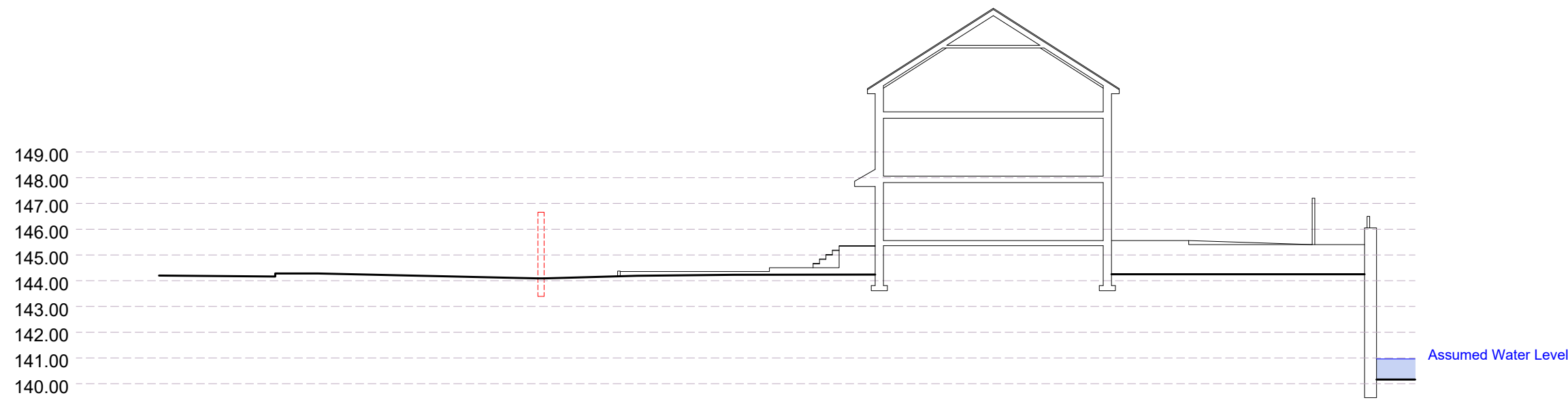
6.9.4 As the site is situated within a flood zone 3, a flood risk assessment will be required for the site.

6.9.5 Due to the presence of elevated levels of radon within the area the proposed development will need to incorporate appropriate membranes and protection measures.

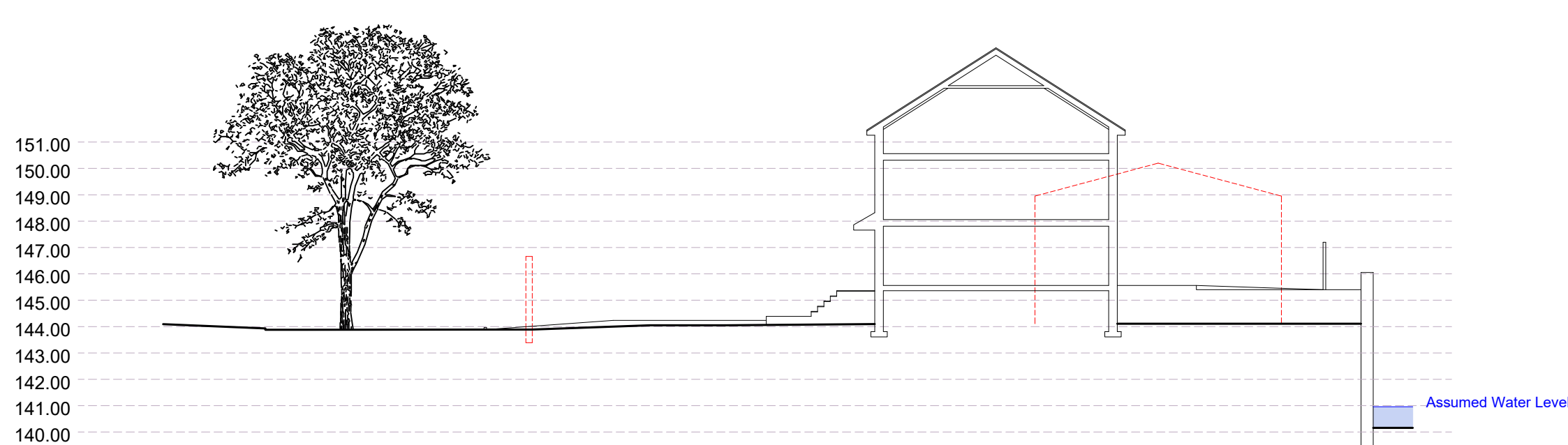
APPENDIX A - Drawings



PROPOSED SECTION 1 - 1



PROPOSED SECTION 2 - 2



PROPOSED SECTION 3 - 3



PROPOSED SECTION 4 - 4

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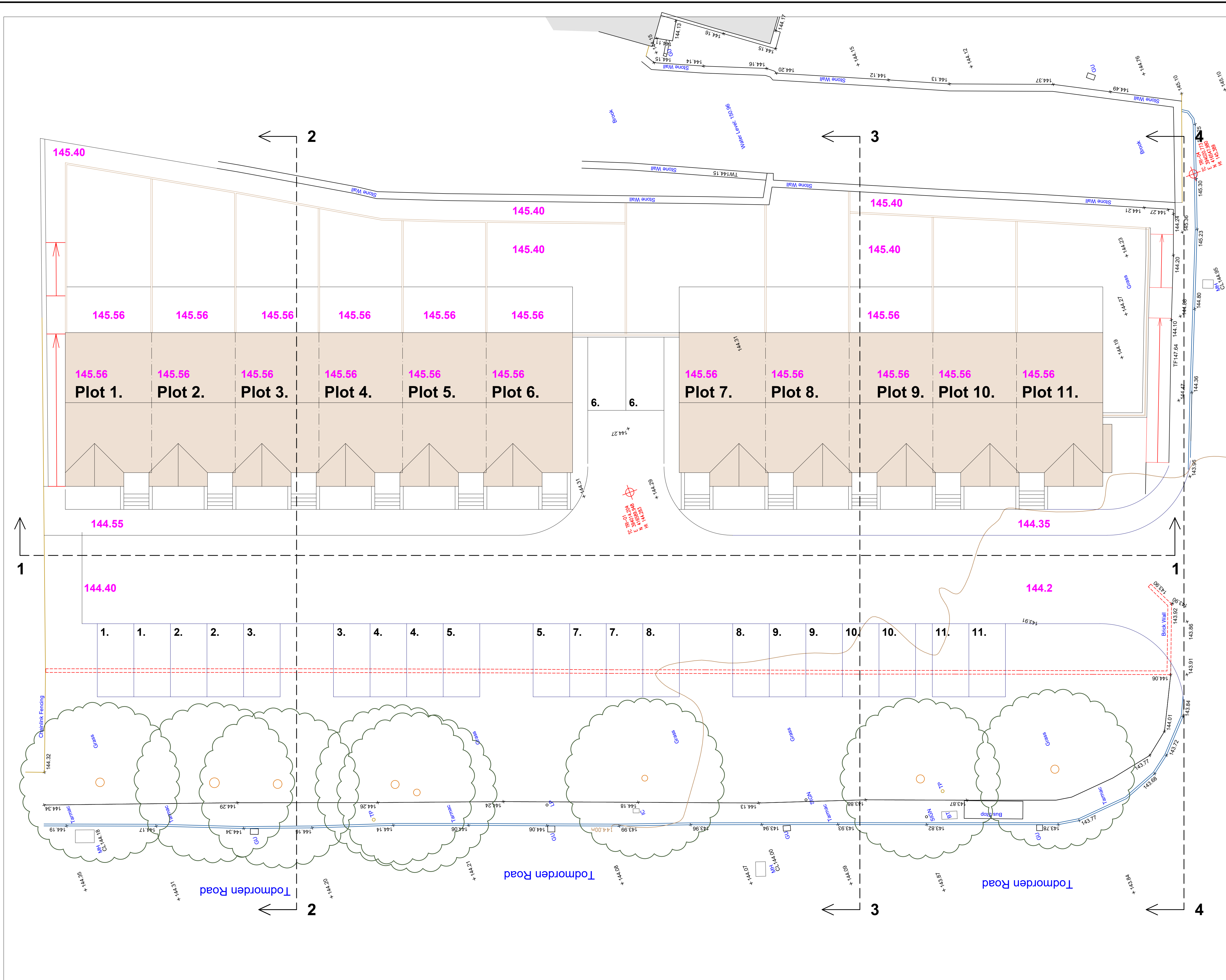
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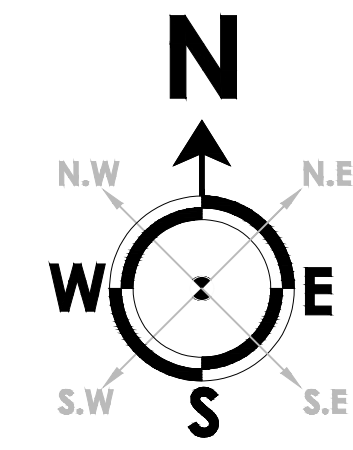
DRAWING TITLE		
SCHEME 3 - PROPOSED SITE SECTIONS		
JCA JAMES CAMPBELL ASSOCIATES LTD CHARTERED ARCHITECTURAL SERVICES Campbell House 173 Rochdale Road Firgrove Rochdale OL16 3BN Tel: 01706 354888 Mob: 07817 623183 Email: admin@jamescampbellassociates.co.uk Web: www.jamescampbellassociates.co.uk		



PROPOSED SITE PLAN

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SCHEME 3 - PROPOSED SITE PLAN



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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-	Frank James Smith	DRAWING NUMBER:- 24.3344.SC3.1
DATE:-	April 2025	
SCALE:-	1:125 @ A1	
ISSUE:-		

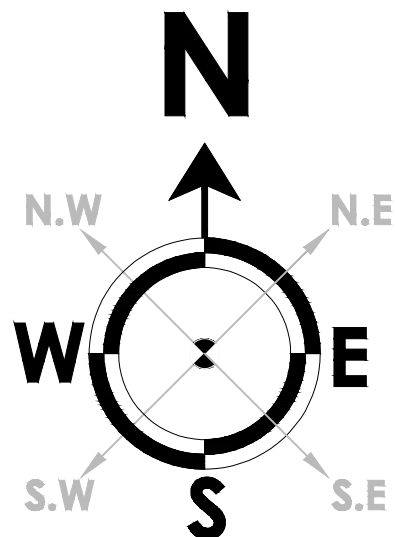
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CONSTRUCTION NOTES:-



KEY

- Existing Retained Trees
- Existing Mown Grassed Area
- Front Gardens: Turf
- Rear Gardens: Grass Seed



M1 - Porous Asphalt

New access road provided with permeable asphalt dark grey in colour. Permeable asphalt to be provided to parking bays with buff colour to clearly denote parking bays from the general access road.



M2 - Buff flagged patios / paths

Buff 450 x 450mm flags on course sand & compacted ground



PROPOSED LANDSCAPING PLAN

Plant Schedule

Qty	Species	Colour Indicator	Size (Girth and Height)
6	Acer campestre	Yellow	14-16cm, 200-250cm ht, B, 3x, extra heavy standard, min 200cm cs, 5 breaks
3	corylus avellana	Pink	Multi-stem, 100-170cm ht, multi-stem, bushy, 5 stems minimum
4	prunus laurocerasus 'otto luyken'	Green	40-60cm ht, 5L-7.5L pot, bushy, 5 breaks
13	buxus sempervirens	Blue	40-60cm ht, bushy, 5 breaks

Trees

Root barriers are to be employed near services. All standard trees are to be planted in separate pits 1m x 1m x 900mm which shall be backfilled with a mixture of approved top soil and tree and shrub planting compost at a rate of one part compost to two parts topsoil. Each tree shall be planted centrally within the pit to the original root collar and secured by two untreated softwood stakes 1.4m min. length with approved ties. After planting all trees shall be watered-in and a mulch layer of 1m diameter approved forest bark spread over the tree pit to 50mm depth. A spiral guard will be fixed to the base of each tree to protect it from rabbit attack and strimmer damage.

Ornamental shrubs and groundcover areas

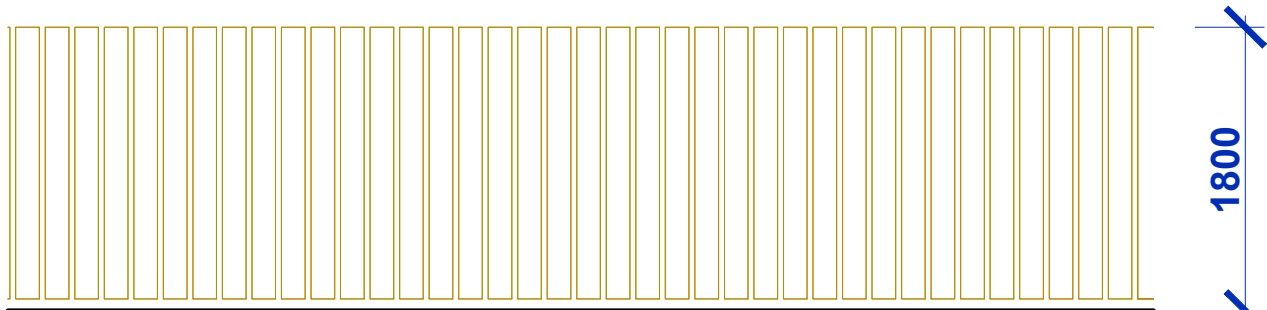
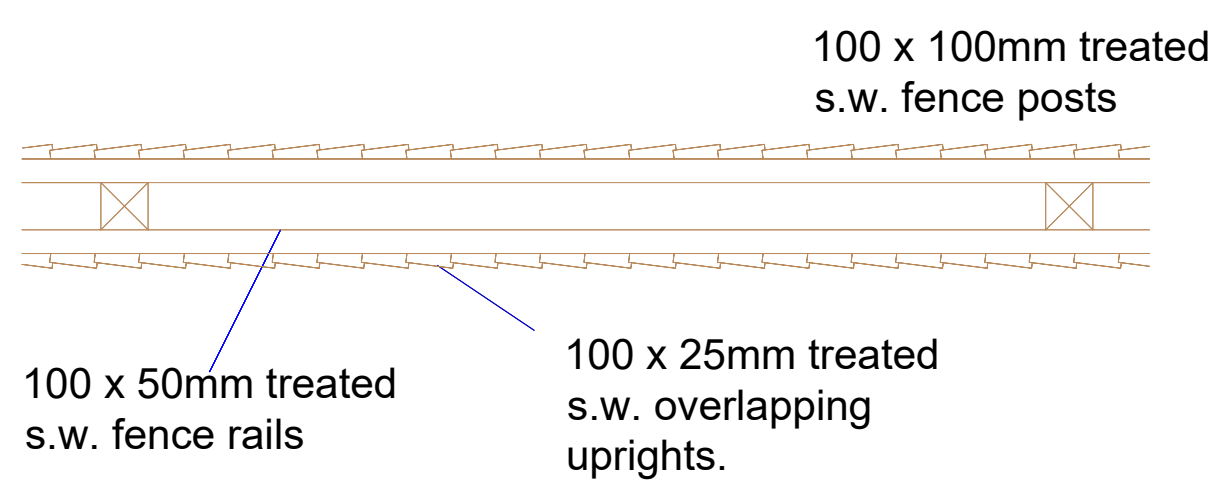
Plants to be planted in variety groups with taller species to back of beds. All shrub beds shall be back-filled with good quality topsoil depth 450mm, the base ground being thoroughly broken up before placement. Tree and shrub planting compost shall be spread to a minimum depth of 50mm and thoroughly rotavated in during cultivation. All stock shall comply with the specification provided on the drawing. All plants shall be well firmed in after planting and watered if necessary.

Amenity Grassed Areas (seed)

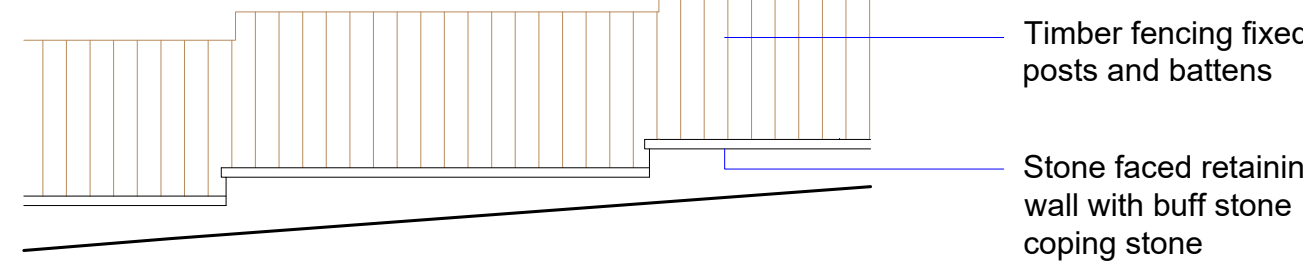
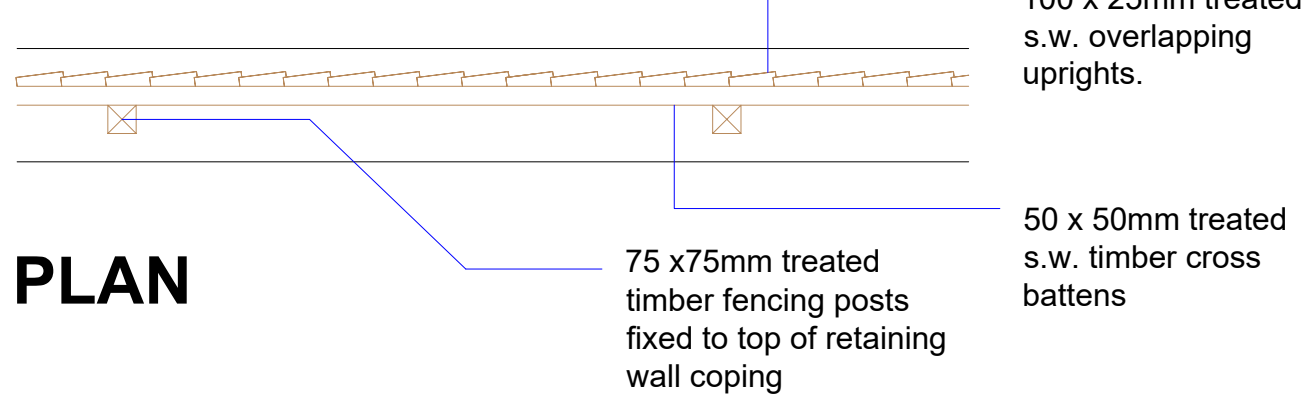
If there is an abundance of annual or perennial weeds, the site may be treated with an approved herbicide prior to seeding. All amenity grass seed areas shall be top-soiled to a minimum depth of 150mm the base for which shall be thoroughly broken up. Once placed, the topsoil shall be cultivated and fine graded to even running falls before raking and cross raking.

Seeding will take place in spring (late March to May) or autumn (August or September) following completion of construction and be broadcast by machine and rolled where possible to give good soil/seed contact.

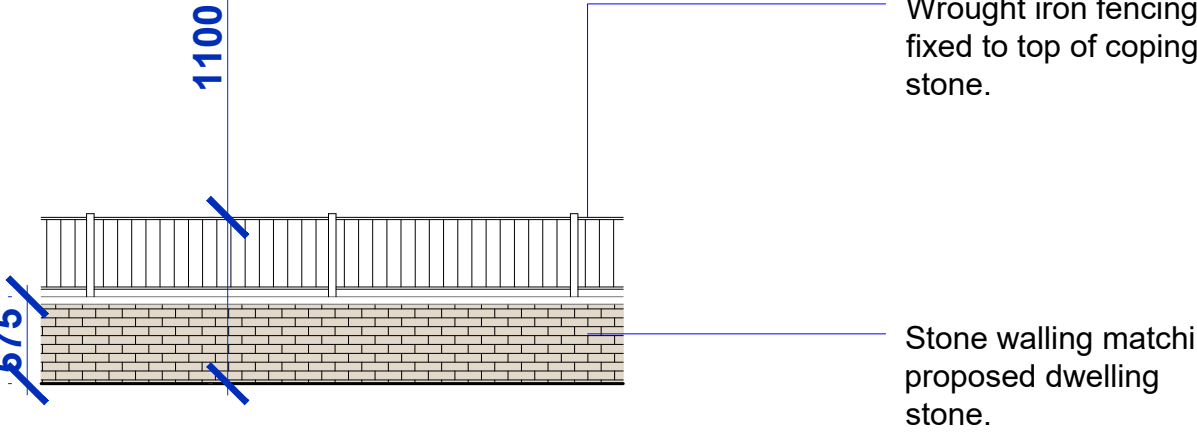
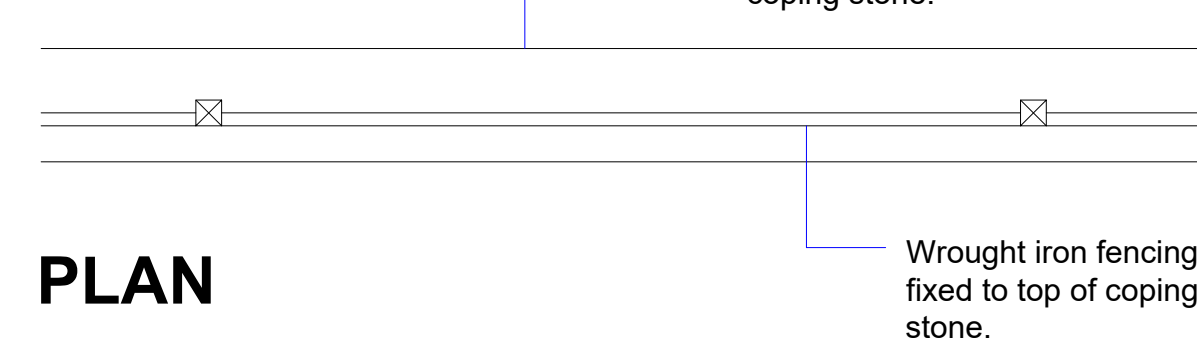
BOUNDARY DETAIL A



BOUNDARY DETAIL B



BOUNDARY DETAIL C



DRAWING TITLE

PROPOSED LANDSCAPING AND BOUNDARY DETAIL PLAN

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PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-	Frank James Smith	DRAWING NUMBER:-
DATE:-	April 2025	
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PROPOSED BLOCK 2 ELEVATIONS

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PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

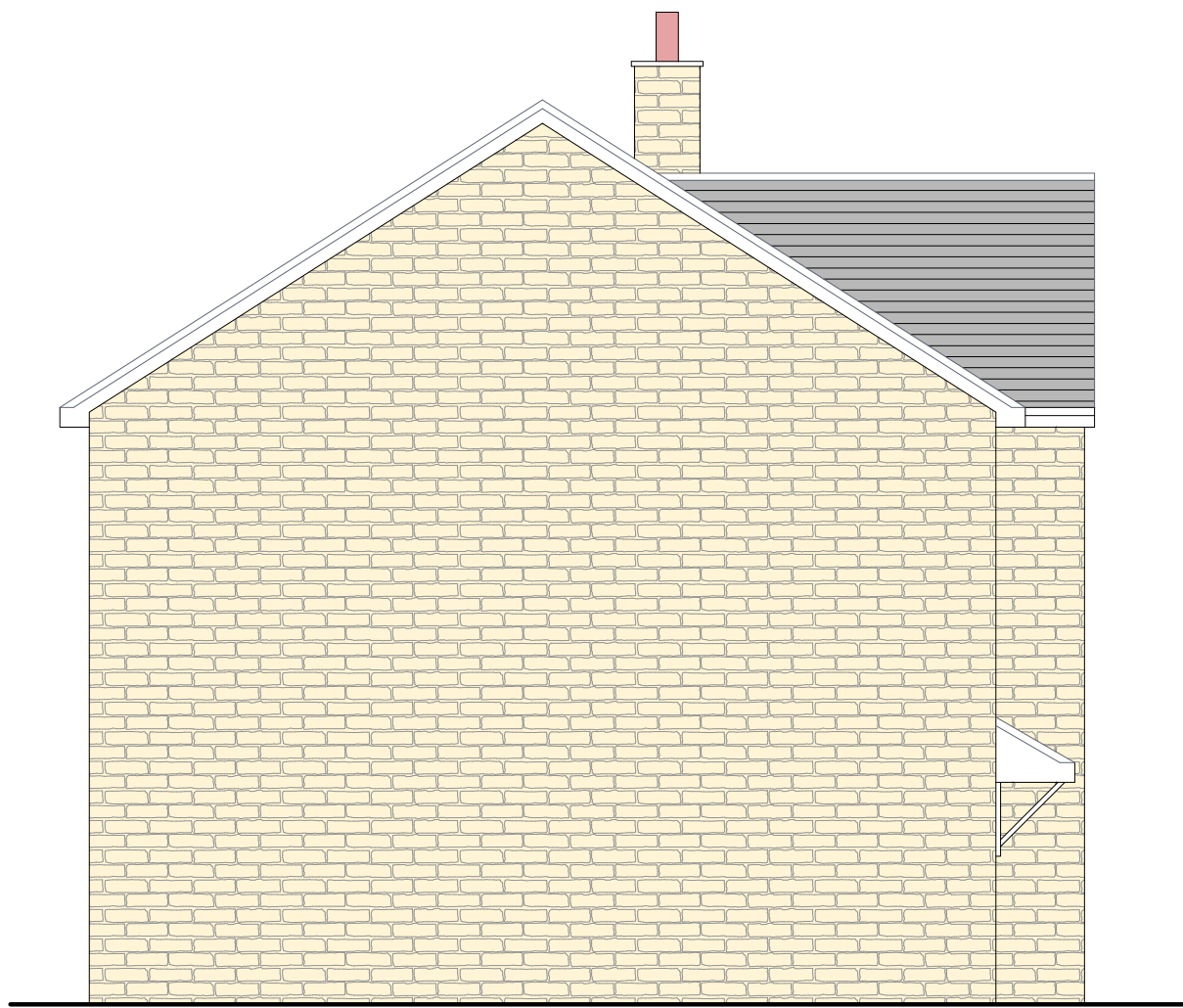
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DATE:- March 2025
SCALE:- 1:75 @ A1
ISSUE:-

DRAWING NUMBER:-

24.3344.7



PROPOSED FRONT ELEVATION



PROPOSED SIDE ELEVATION 1



PROPOSED SIDE ELEVATION 2



PROPOSED REAR ELEVATION

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PROPOSED BLOCK 1 ELEVATIONS



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PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

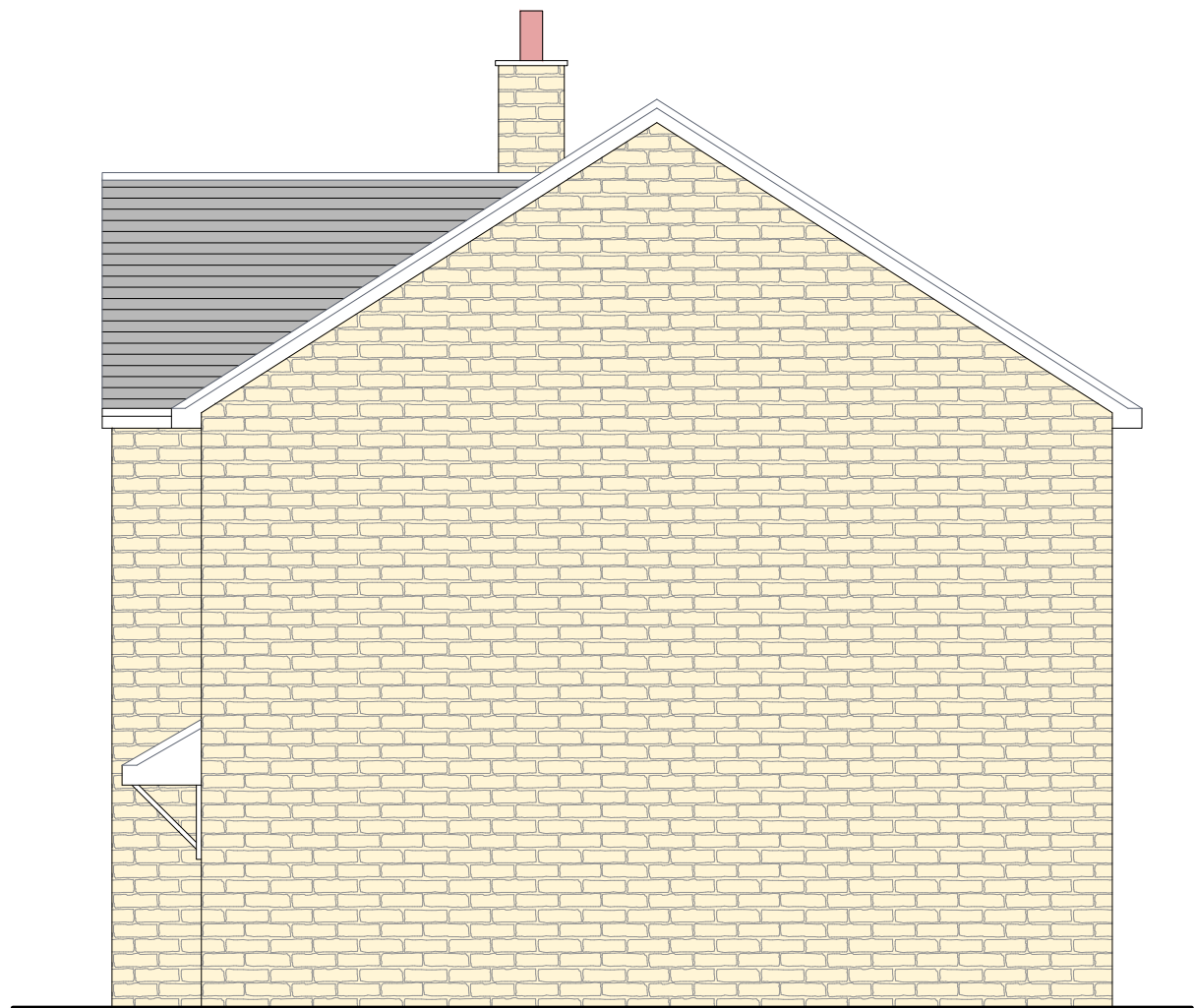
LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

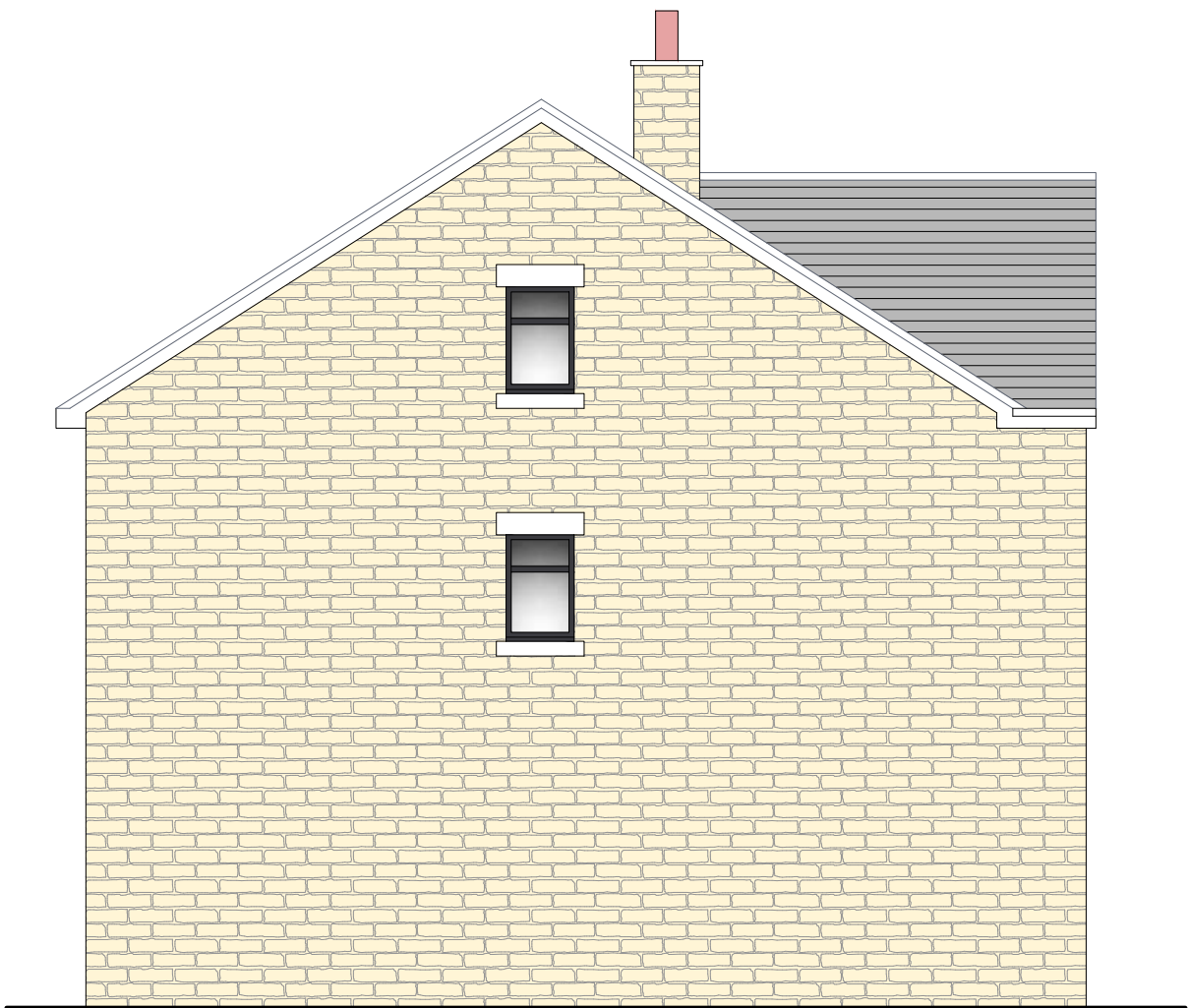
DRAWN:-	Frank James Smith	DRAWING NUMBER:- 24.3344.6
DATE:-	April 2025	
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ISSUE:-		



PROPOSED FRONT ELEVATION



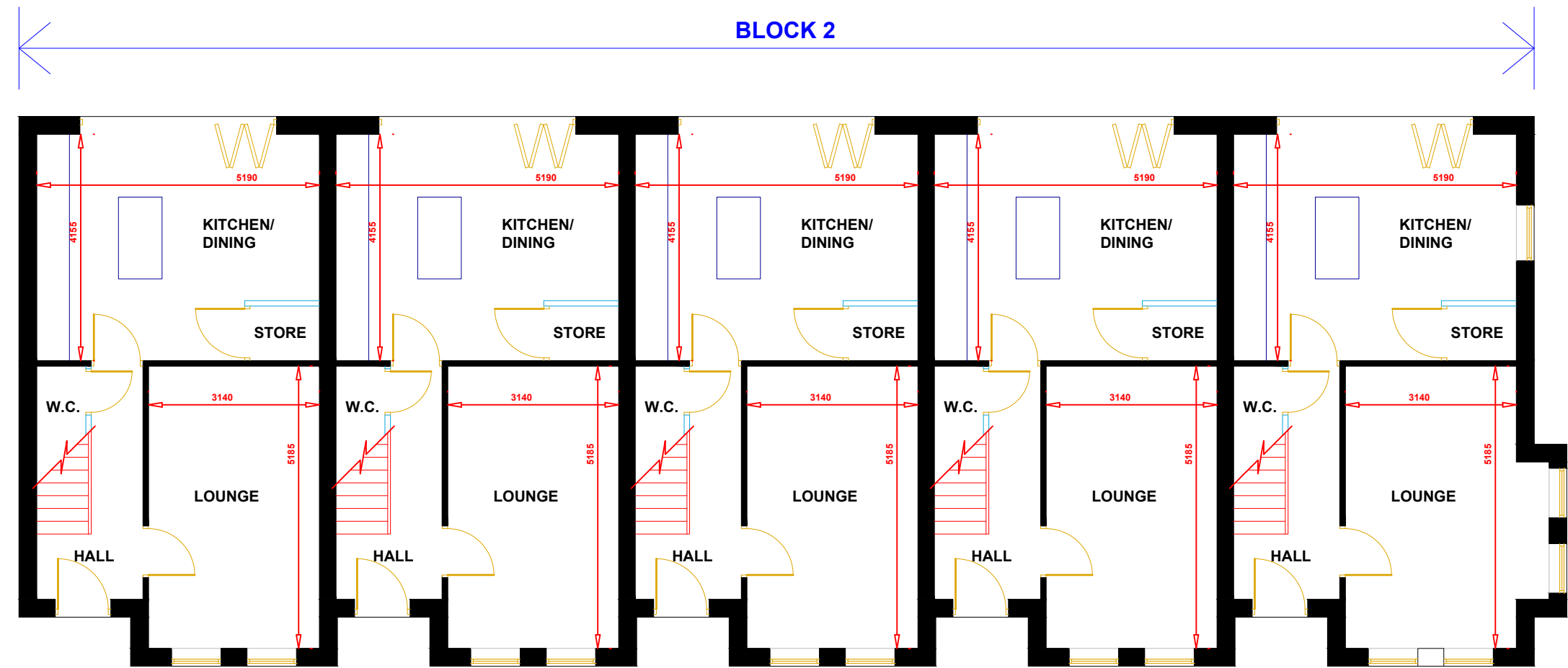
PROPOSED SIDE ELEVATION 1



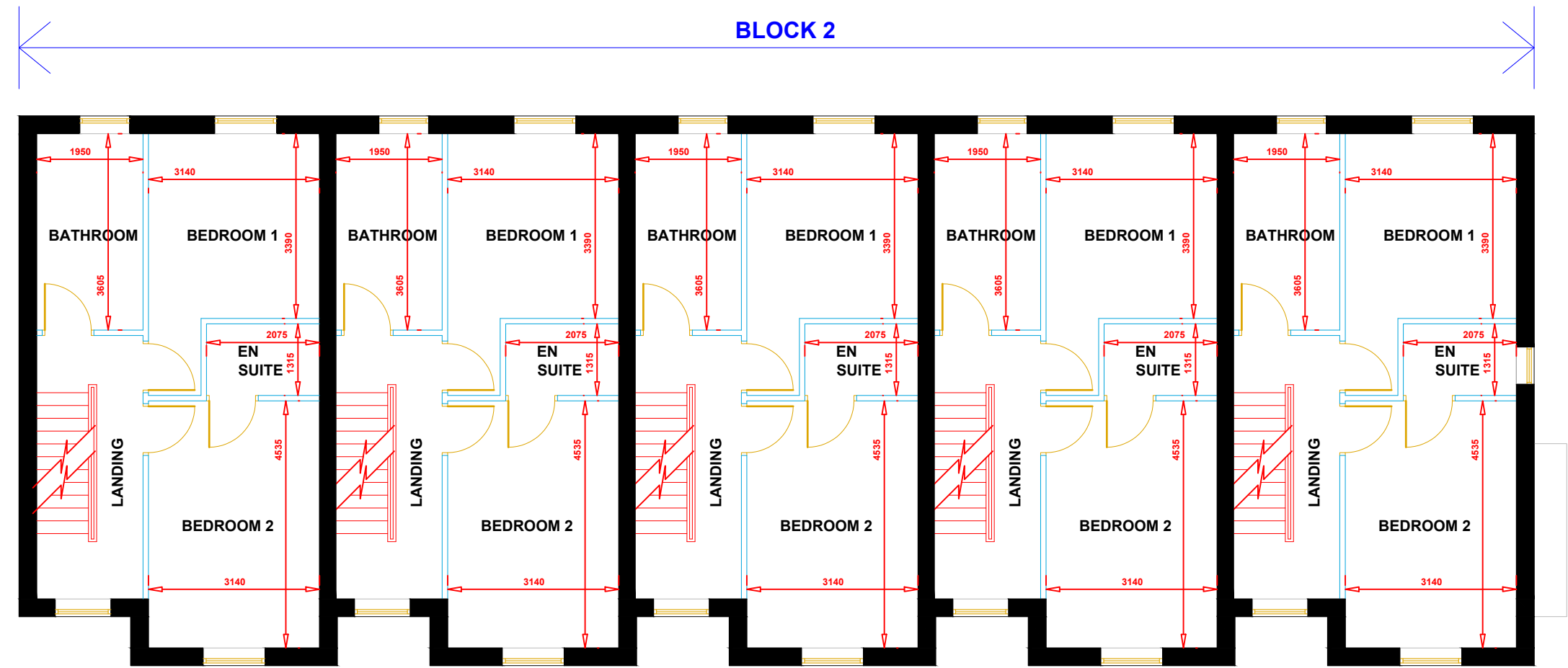
PROPOSED SIDE ELEVATION 2



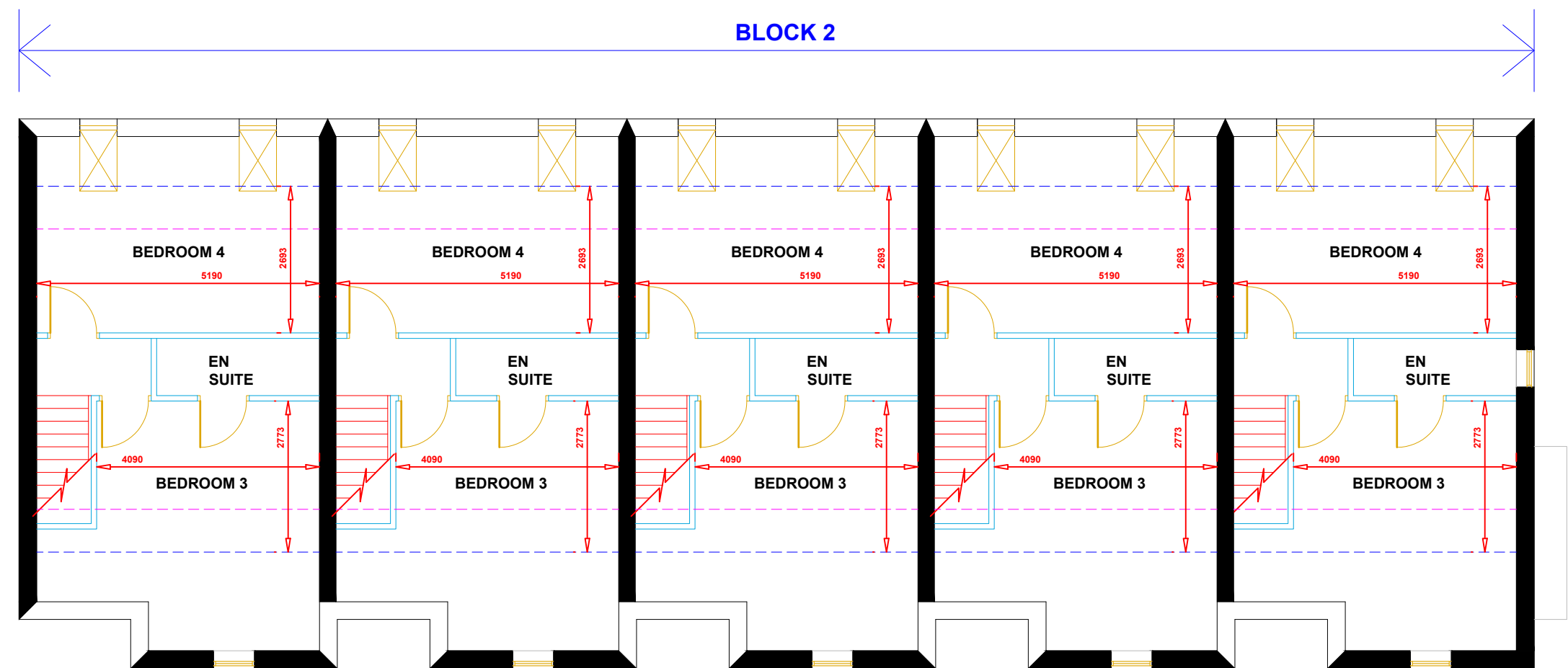
PROPOSED REAR ELEVATION



PROPOSED GROUND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN



PROPOSED SECOND FLOOR PLAN

Area Schedule

Ground Floor

Room	Area
Lounge	16.2m2
Hall	6.7m2
W.c	1.5m2
Kitchen / Dining	21.5m2

Total Gross Ground Floor Area = **47m2**

Total Gross Internal Area = 129m2

First Floor

Room	Area
Landing	9.4m2
Bedroom 1	12m2
Bedroom 2	14.2m2
En Suite	2.7m2
Bathroom	7.6m2

Total Gross Ground Floor Area = **47m2**

Second Floor

Room	Area
Landing	4.5m2
Bedroom 3	12m2
En Suite	3.1m2
Bedroom 4	13.9m2

Total Gross Second Floor Area = **35m2** (Min. 1.5m Height)

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CONSTRUCTION NOTES:-

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PROPOSED BLOCK 2 FLOOR PLANS

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PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-	Frank James Smith	DRAWING NUMBER:- 24.3344.5
DATE:-	July 2024	
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CONSTRUCTION NOTES:-

DRAWING TITLE

EXISTING TOPOGRAPHICAL SURVEY DETAILS

JCA

JAMES CAMPBELL ASSOCIATES LTD

CHARTERED ARCHITECTURAL SERVICES





Campbell House
173 Rochdale Road
Firgrove
Rochdale
OL16 3BN

Tel: 01706 354888
Mob: 07817 623183
Email: admin@jamescampbellassociates.co.uk
Web: www.jamescampbellassociates.co.uk

PROJECT

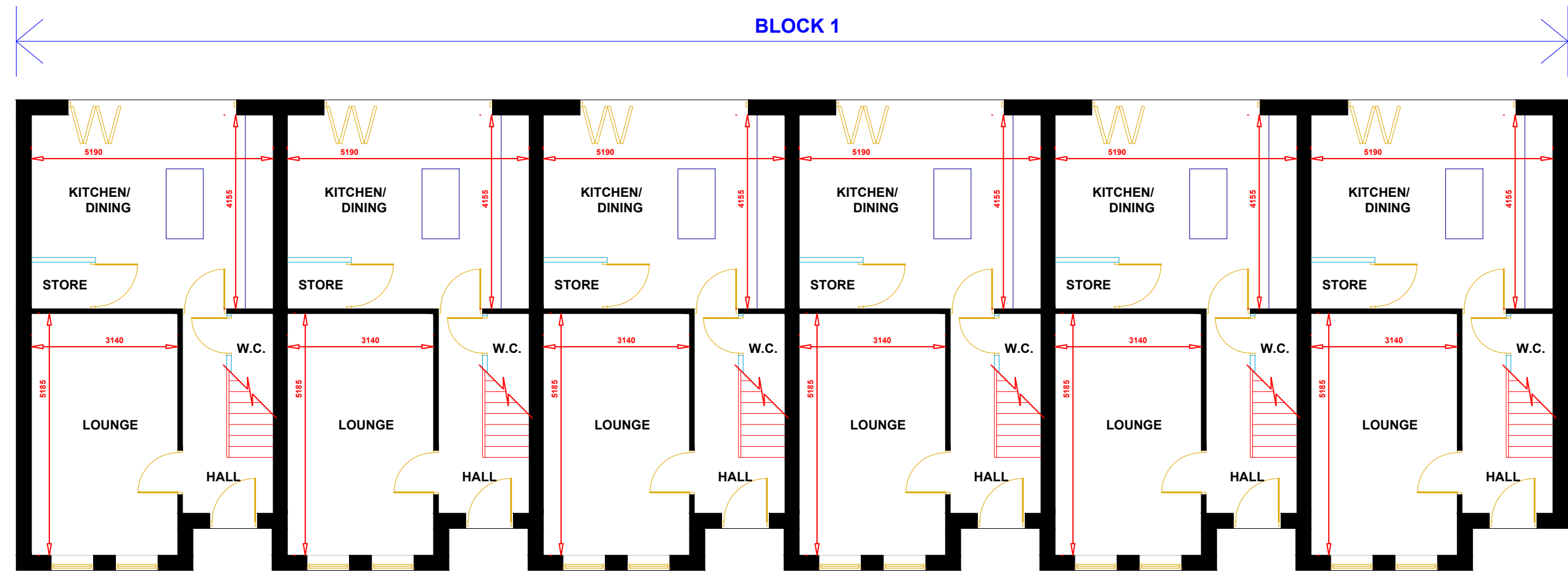
PROPOSED REDEVELOPMENT

LOCATION

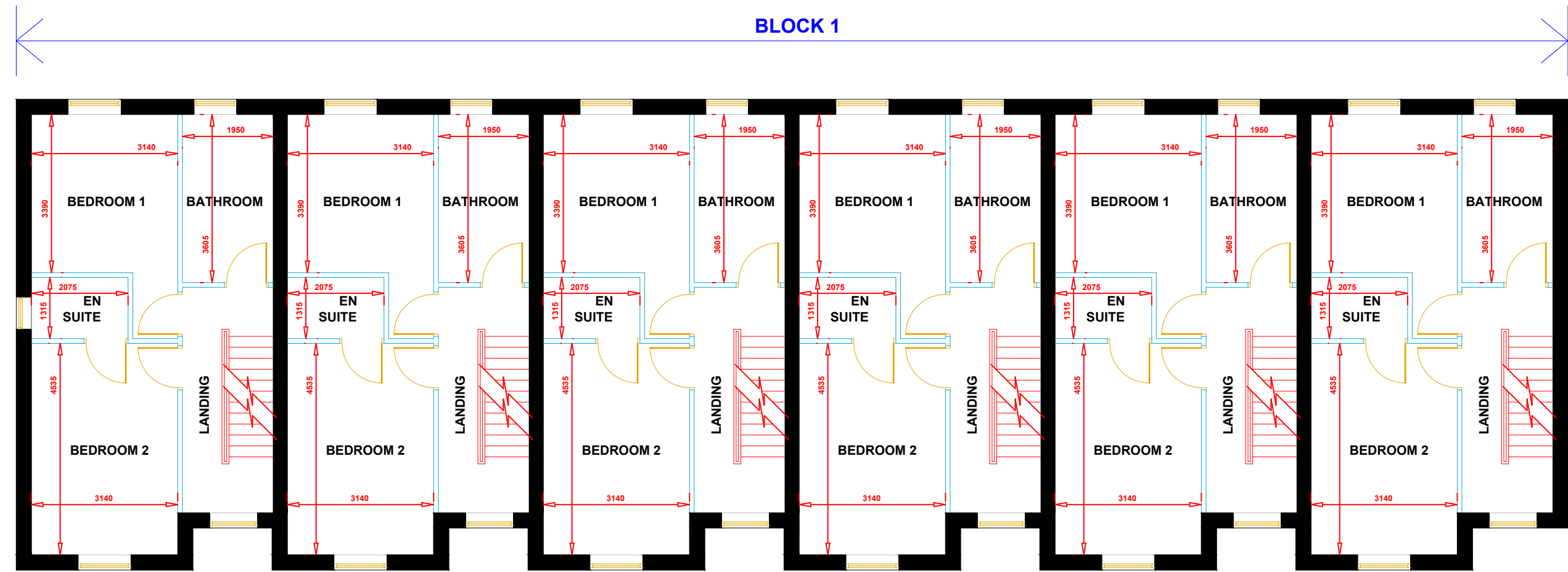
GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-	Frank James Smith	DRAWING NUMBER:-
DATE:-	June 2024	24.3344.1
SCALE:-	1:500 @ A1	
ISSUE:-		

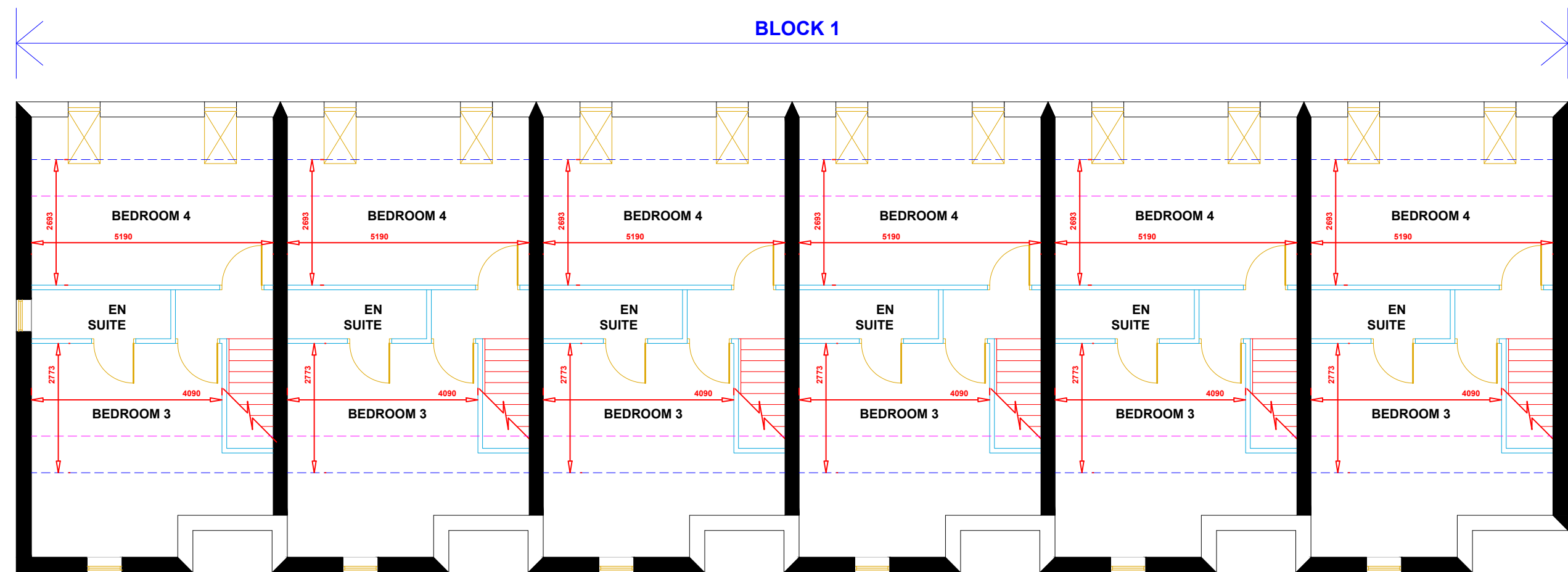
EXISTING TOPOGRAPHICAL SURVEY PLAN



PROPOSED GROUND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN



PROPOSED SECOND FLOOR PLAN

Area Schedule

Ground Floor

Room	Area
Lounge	16.2m2
Hall	6.7m2
W.c	1.5m2
Kitchen / Dining	21.5m2

Total Gross Ground Floor Area = 47m2

Total Gross Internal Area = 129m2

First Floor

Room	Area
Landing	9.4m2
Bedroom 1	12m2
Bedroom 2	14.2m2
En Suite	2.7m2
Bathroom	7.6m2

Total Gross Ground Floor Area = 47m2

Second Floor

Room	Area
Landing	4.5m2
Bedroom 3	12m2
En Suite	3.1m2
Bedroom 4	13.9m2

Total Gross Second Floor Area = 35m2 (Min. 1.5m Height)

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CONSTRUCTION NOTES:-

DRAWING TITLE

PROPOSED BLOCK 1 FLOOR PLANS

JCA

JAMES CAMPBELL ASSOCIATES LTD
CHARTERED ARCHITECTURAL SERVICES



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PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-

Frank James Smith

DRAWING NUMBER:-

DATE:-

April 2025

SCALE:-

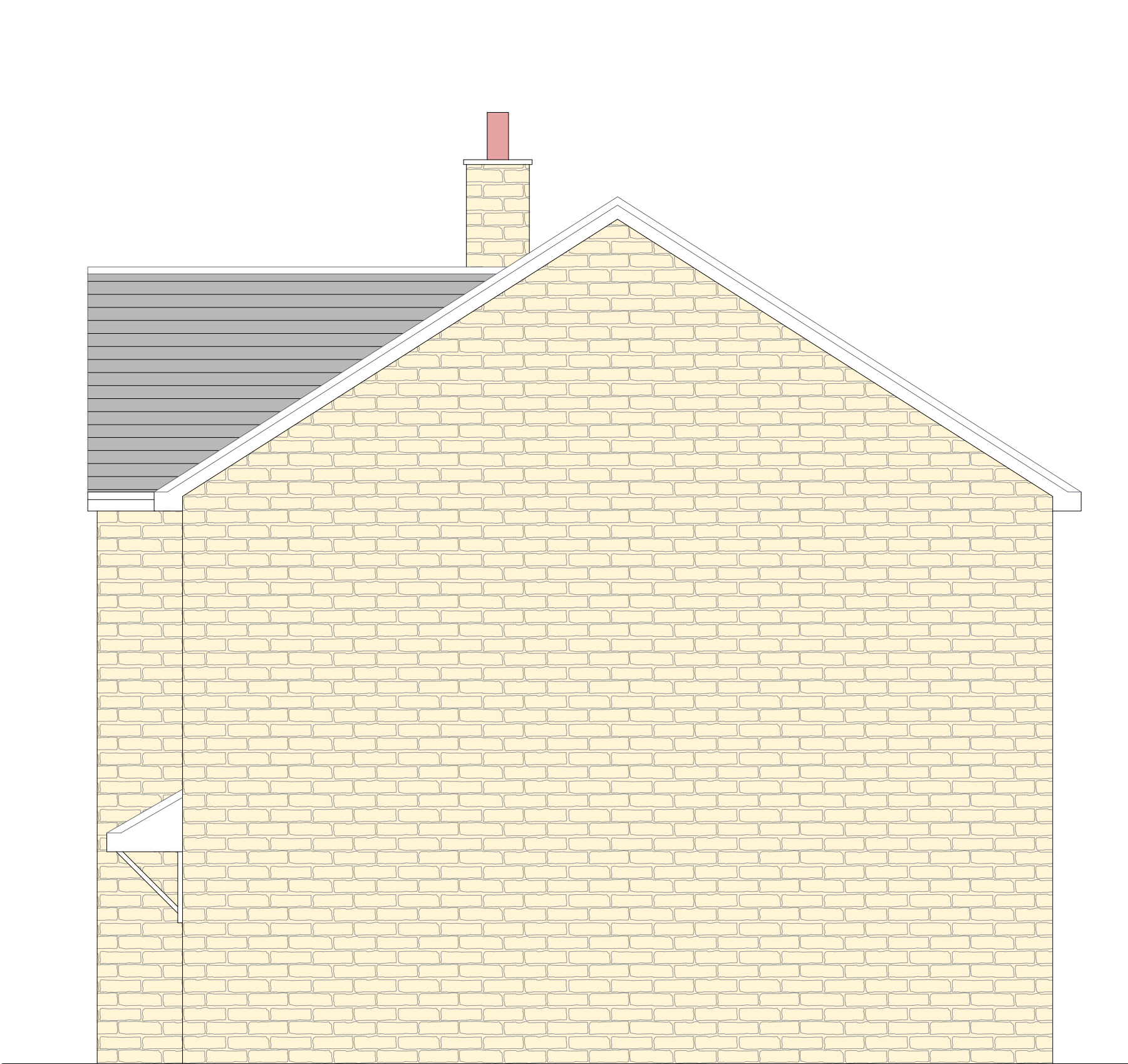
1:100 @ A1

ISSUE:-

24.3344.4



PROPOSED FRONT ELEVATION

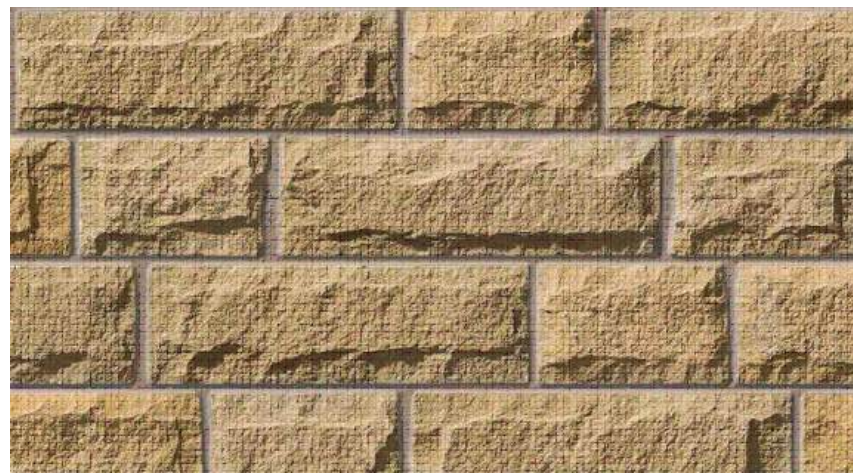


PROPOSED SIDE ELEVATION 1



PROPOSED REAR ELEVATION

1. External Facade



Primary - Anstone Premier (Med Buff)

2. Roofing



Marley Modern Grey Concrete Tile

3. Misc.

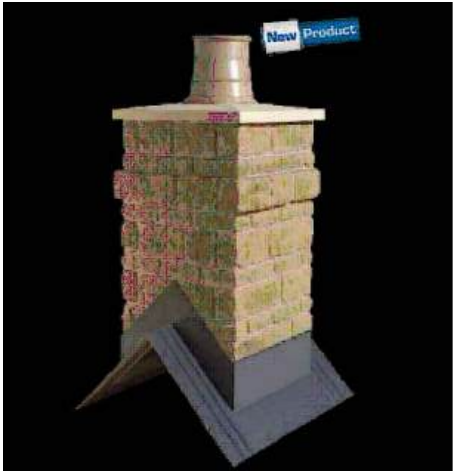


(A) Window and Doors
Dark Grey upvc Window/
Door Frames - Anthracite



(B) Eaves
Slate grey eaves boards
(RAL7015)

(C) Gutter
Black 117mm Square
UPVC Gutter (4m)



(D) Chimneys
GRP Chimney Fixtures
stone clad



(E) Cladding
Anthracite cladding to
canopies

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CONSTRUCTION NOTES:-

DRAWING TITLE

MATERIAL DETAIL

JCA

JAMES CAMPBELL ASSOCIATES LTD
CHARTERED ARCHITECTURAL SERVICES


CIOB


CIAT

Campbell House
173 Rochdale Road
Firgrove
Rochdale
OL16 3BN

Tel: 01706 354888
Mob: 07817 623183
Email: admin@jamescampbellassociates.co.uk
Web: www.jamescampbellassociates.co.uk

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

GNG Foam Converters (Lancs) Ltd
Pennine Industrial Estate
Todmorden Road
Littleborough

DRAWN:-	Frank James Smith	DRAWING NUMBER:-
DATE:-	April 2025	24.3344.9A
SCALE:-	1:50 @ A1	
ISSUE:-	A	

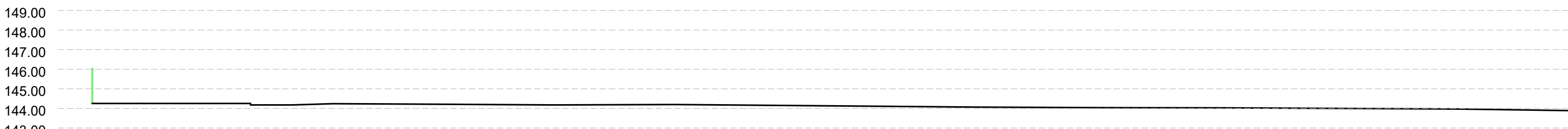
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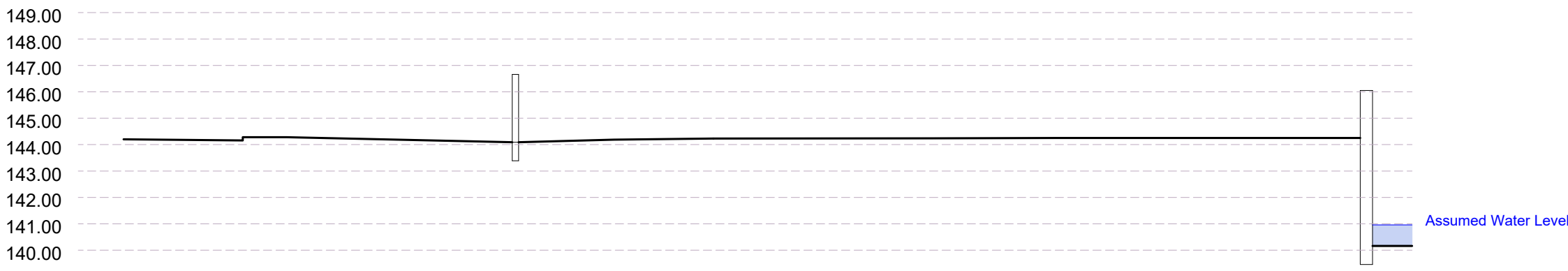
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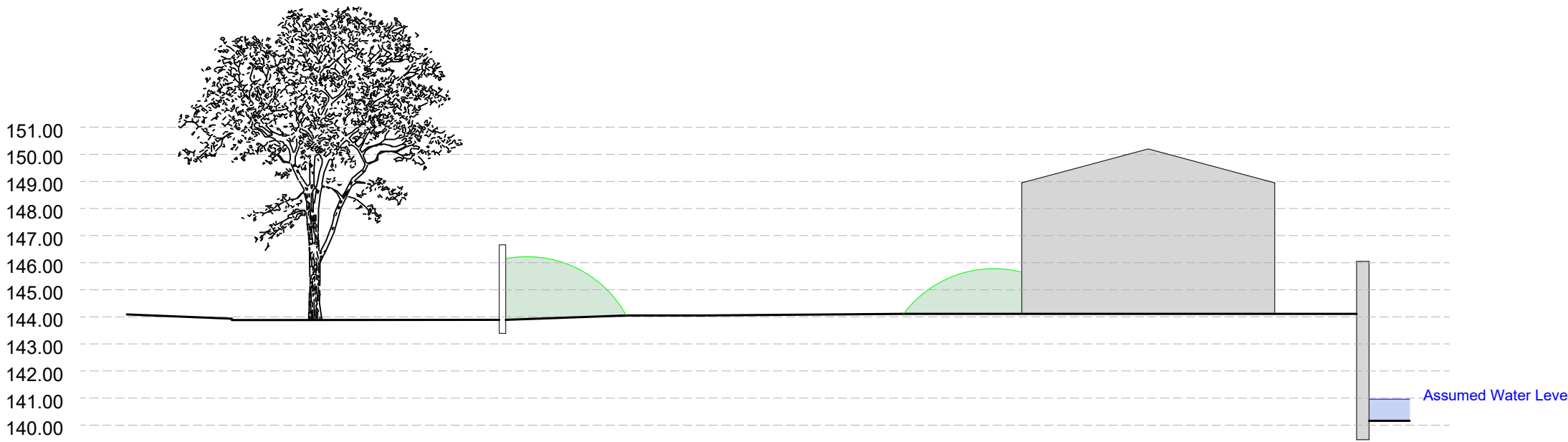
CONSTRUCTION NOTES:-



EXISTING SECTION 1 - 1



EXISTING SECTION 2 - 2



EXISTING SECTION 3 - 3



EXISTING SECTION 4 - 4

DRAWING TITLE		
EXISTING SITE SECTIONS		
JCA 173 Rochdale Road Firgrove Rochdale OL16 3BN James Campbell Associates Ltd Chartered Architectural Services CIOB CIAT Tel: 01706 354888 Mob: 07817 623183 Email: admin@jamescampbellassociates.co.uk Web: www.jamescampbellassociates.co.uk		
PROJECT		
PROPOSED RESIDENTIAL DEVELOPMENT		
LOCATION		
GNG Foam Converters (Lancs) Ltd Pennine Industrial Estate Todmorden Road Littleborough		
DRAWN:-	Frank James Smith	DRAWING NUMBER:-
DATE:-	April 2025	24.3344.2
SCALE:-	1:200 @ A1	
ISSUE:-		

APPENDIX B - Groundsure

GNG foam converters site

Order Details

Date: 28/05/2025
Your ref: GNGFoamConverters
Our Ref: GS-X5F-A3J-TZ1-BSC

Site Details

Location: 394015 416591
Area: 0.34 ha
Authority: [Rochdale Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#) [Aerial image](#)

[p. 6 >](#)

[OS MasterMap site plan](#)

[p.11 >](#) [Insight User Guide](#) ↗

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
12 >	1.1 >	Historical industrial land uses >	1	5	54	119	-
19 >	1.2 >	Historical tanks >	0	0	7	35	-
21 >	1.3 >	Historical energy features >	0	0	6	10	-
22	1.4	Historical petrol stations	0	0	0	0	-
22 >	1.5 >	Historical garages >	0	0	10	0	-
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 >	1	8	64	154	-
33 >	2.2 >	Historical tanks >	0	0	15	47	-
35 >	2.3 >	Historical energy features >	0	0	13	14	-
36	2.4	Historical petrol stations	0	0	0	0	-
37 >	2.5 >	Historical garages >	0	0	17	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
39 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
40	3.5	Historical waste sites	0	0	0	0	-
40	3.6	Licensed waste sites	0	0	0	0	-
40 >	3.7 >	Waste exemptions >	14	0	62	22	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	4.1 >	Recent industrial land uses >	0	1	23	-	-
50 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
50	4.3	Electricity cables	0	0	0	0	-
51	4.4	Gas pipelines	0	0	0	0	-
51	4.5	Sites determined as Contaminated Land	0	0	0	0	-



51	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
51	4.7	Regulated explosive sites	0	0	0	0	-
51	4.8	Hazardous substance storage/usage	0	0	0	0	-
52	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
52	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
52 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
52	4.12	Radioactive Substance Authorisations	0	0	0	0	-
53 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	0	2	-
53	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
54	4.17	List 2 Dangerous Substances	0	0	0	0	-
54 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	1	4	2	-
55	4.19	Pollution inventory substances	0	0	0	0	-
55	4.20	Pollution inventory waste transfers	0	0	0	0	-
55	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Geology (basic) ></u>					
56 >	5.1 >	<u>Superficial geology (625k) ></u>	Identified (within 500m)				
56 >	5.2 >	<u>Bedrock geology (625k) ></u>	Identified (within 500m)				
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
57 >	6.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
59 >	6.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
60 >	6.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
61	6.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
61	6.5	Groundwater vulnerability- local information	None (within 0m)				
62 >	6.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	8
65 >	6.7 >	<u>Surface water abstractions ></u>	0	0	0	0	65
81 >	6.8 >	<u>Potable abstractions ></u>	0	0	0	0	5
82	6.9	Source Protection Zones	0	0	0	0	-



83	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	7.1 >	Water Network (OS MasterMap) >	1	0	18	-	-
86 >	7.2 >	Surface water features >	1	1	6	-	-
86 >	7.3 >	WFD Surface water body catchments >	1	-	-	-	-
87 >	7.4 >	WFD Surface water bodies >	0	1	1	-	-
87 >	7.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	8.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
89 >	8.2 >	Historical Flood Events >	3	2	13	-	-
90 >	8.3 >	Flood Defences >	2	3	22	-	-
91 >	8.4 >	Areas Benefiting from Flood Defences >	0	0	1	-	-
92	8.5	Flood Storage Areas	0	0	0	-	-
93 >	8.6 >	Flood Zone 2 >	Identified (within 50m)				
94 >	8.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
95 >	9.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
97 >	10.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	11.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	1	2
99	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
99 >	11.3 >	Special Areas of Conservation (SAC) >	0	0	0	1	2
100 >	11.4 >	Special Protection Areas (SPA) >	0	0	0	0	2
100	11.5	National Nature Reserves (NNR)	0	0	0	0	0
101	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
101 >	11.7 >	Designated Ancient Woodland >	0	0	0	1	3
101	11.8	Biosphere Reserves	0	0	0	0	0
102	11.9	Forest Parks	0	0	0	0	0



102	11.10	Marine Conservation Zones	0	0	0	0	0
102 >	11.11 >	Green Belt >	0	0	1	0	0
102	11.12	Proposed Ramsar sites	0	0	0	0	0
103	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
103	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
103	11.15	Nitrate Sensitive Areas	0	0	0	0	0
103	11.16	Nitrate Vulnerable Zones	0	0	0	0	0
104 >	11.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
106 >	11.18 >	SSSI Units >	0	0	0	1	2
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
108	12.1	World Heritage Sites	0	0	0	-	-
109	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
109	12.3	National Parks	0	0	0	-	-
109 >	12.4 >	Listed Buildings >	0	0	4	-	-
110 >	12.5 >	Conservation Areas >	0	0	1	-	-
110	12.6	Scheduled Ancient Monuments	0	0	0	-	-
110	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	13.1 >	Agricultural Land Classification >	Urban (within 250m)				
112	13.2	Open Access Land	0	0	0	-	-
112	13.3	Tree Felling Licences	0	0	0	-	-
112	13.4	Environmental Stewardship Schemes	0	0	0	-	-
112	13.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	14.1 >	Priority Habitat Inventory >	0	0	6	-	-
114 >	14.2 >	Habitat Networks >	1	0	4	-	-
114 >	14.3 >	Open Mosaic Habitat >	0	0	1	-	-
115	14.4	Limestone Pavement Orders	0	0	0	-	-

Recent aerial photograph

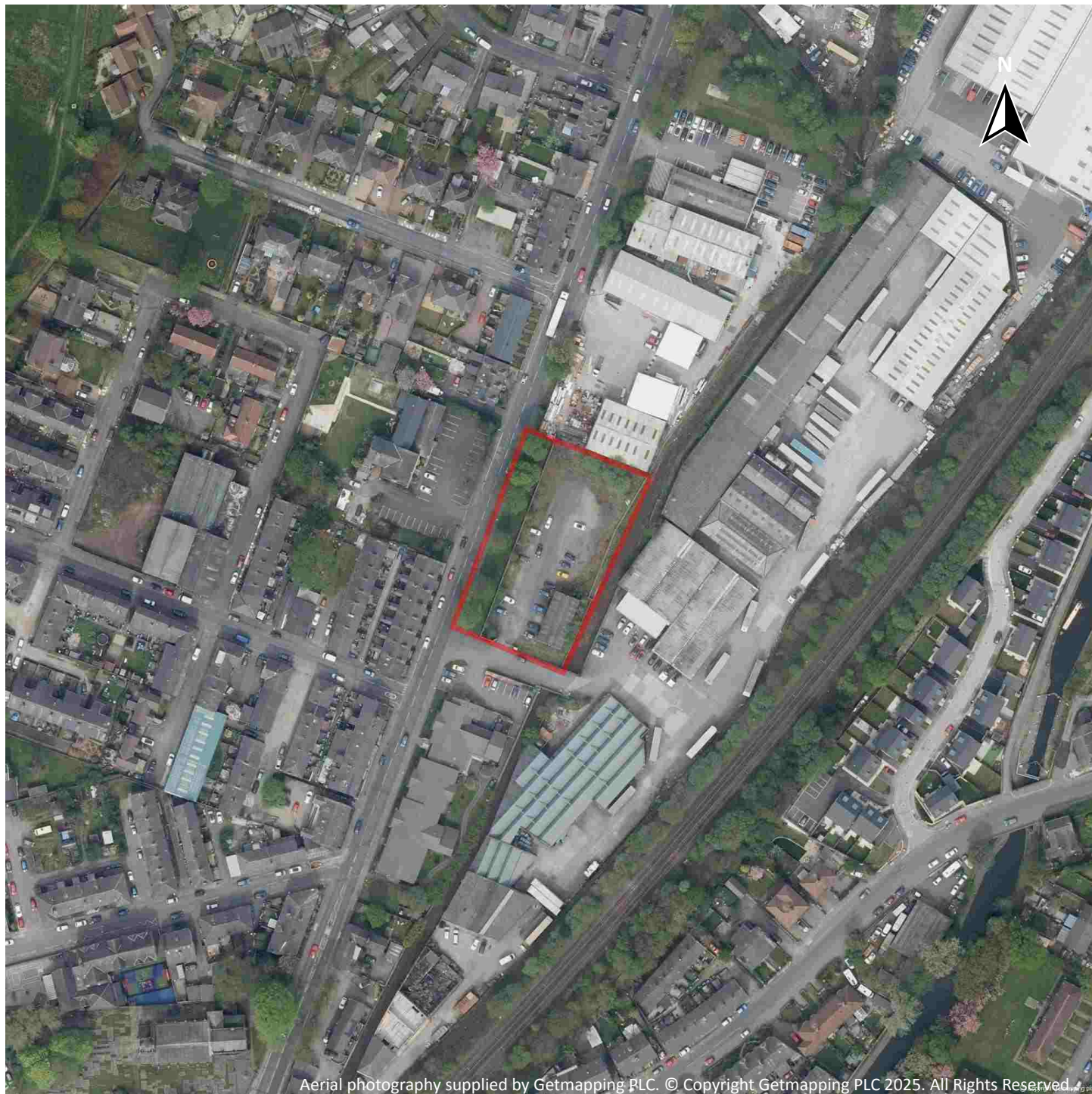


Capture Date: 27/05/2023

Site Area: 0.34ha



Recent site history - 2019 aerial photograph



Capture Date: 23/05/2019

Site Area: 0.34ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.34ha



Recent site history - 2001 aerial photograph



Capture Date: 12/05/2001

Site Area: 0.34ha



Recent site history - 2000 aerial photograph



Capture Date: 07/05/2000

Site Area: 0.34ha



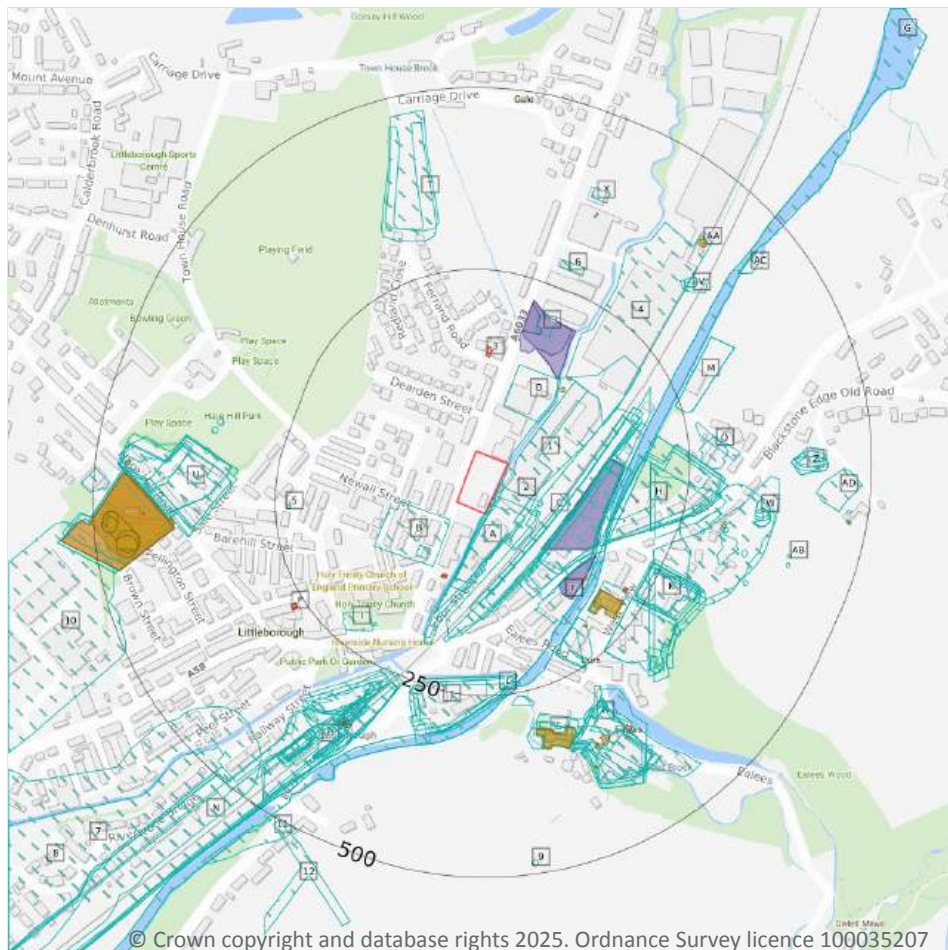
OS MasterMap site plan



Site Area: 0.34ha



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

179

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 12 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Works	1968	799732



ID	Location	Land use	Dates present	Group ID
A	On site	Sawmills	1911	765538
A	3m S	Unspecified Mills	1938 - 1949	754655
A	4m S	Unspecified Mills	1928	797162
2	5m S	Unspecified Works	1976 - 1989	707313
B	26m SW	Unspecified Mill	1890 - 1892	727807
C	58m SE	Railway Sidings	1911	790016
D	69m NE	Unspecified Works	1976	769770
C	71m SE	Railway Sidings	1928	766243
C	71m SE	Railway Sidings	1908	792612
B	74m SW	Police Station	1968	706536
C	77m SE	Railway Sidings	1968	759178
C	77m SE	Railway Sidings	1938	791743
C	78m SE	Railway Sidings	1949	739817
C	92m SE	Unspecified Mill	1890	737122
C	93m SE	Unspecified Mill	1911	710435
C	95m SE	Unspecified Mill	1938 - 1949	778074
C	97m SE	Unspecified Commercial/Industrial	1928	712112
C	97m SE	Unspecified Commercial/Industrial	1908	758665
C	102m SE	Unspecified Mill	1892	787873
F	141m SE	Unspecified Mill	1890 - 1892	780749
4	141m NE	Unspecified Works	1989	747682
G	154m E	Disused Canal	1989	732190
G	154m E	Disused Canal	1976	763039
H	160m E	Dock Yard	1851	690012
H	161m E	Iron Foundry	1909 - 1911	755200
H	163m E	Iron Foundry	1949	778415
H	170m SE	Unspecified Depot	1976	669540
H	170m SE	Unspecified Commercial/Industrial	1968	755825



ID	Location	Land use	Dates present	Group ID
E	182m N	Garage	1976	673803
F	188m SE	Unspecified Tanks	1949	733438
F	190m SE	Unspecified Tanks	1928	794899
F	190m SE	Unspecified Tanks	1938	762700
F	191m SE	Refuse Heap	1938 - 1949	762448
I	193m SW	Grave Yard	1851	663408
H	196m E	Iron Foundry	1930	707420
F	197m SE	Refuse Heap	1928	752219
I	199m SW	Unspecified Tank	1851	697860
H	203m E	Unspecified Commercial/Industrial	1891	743169
J	224m S	Unspecified Mill	1911	715926
J	224m S	Unspecified Mill	1911 - 1928	754243
J	226m S	Unspecified Mill	1890 - 1892	768983
J	227m S	Unspecified Works	1968	683248
5	229m W	Pump	1851	682597
H	231m E	Fire Brick and Pipe Works	1891	745772
K	232m SE	Woollen Mills	1911	750419
K	233m SE	Bleaching, Dyeing and Chemical Mills	1911	687381
K	233m SE	Bleaching and Dyeing Mills	1911	706214
J	234m S	Unspecified Mill	1908	805156
L	235m S	Unspecified Tank	1892	697861
K	236m SE	Unspecified Mill	1949	752204
K	236m SE	Unspecified Works	1976 - 1989	713738
K	236m SE	Unspecified Mill	1968	788235
K	236m SE	Unspecified Mill	1930	708372
K	236m SE	Unspecified Mill	1909	732639
K	243m SE	Woollen Mill	1892	788114
M	243m E	Corporation Yard	1968	704792



ID	Location	Land use	Dates present	Group ID
M	243m E	Engineering Works	1976	704853
N	245m SW	Railway Sidings	1938	742133
K	247m SE	Woollen Mill	1891	789090
O	252m SW	Railway Sidings	1911	767249
H	252m E	Fire Brick and Pipe Works	1892	723567
O	253m SW	Unspecified Ground Workings	1851 - 1968	753031
L	254m S	Unspecified Pit	1938	676145
O	257m SW	Unspecified Pit	1890	747686
N	262m SW	Railway Sidings	1928	738367
Q	263m E	Unspecified Ground Workings	1891	661498
Q	264m E	Refuse Heap	1930 - 1949	797771
N	266m SW	Railway Sidings	1949 - 1968	760705
N	268m SW	Railway Sidings	1908	784940
O	268m SW	Unspecified Pit	1908	731959
O	268m SW	Unspecified Pit	1928	754017
H	271m E	Iron Foundry	1851	705140
O	271m SW	Unspecified Heap	1938	688701
6	277m NE	Engineering Works	1976	704851
H	281m E	Unspecified Tank	1892	697938
R	281m SE	Woollen Mill	1851	657547
R	285m S	Unspecified Mill	1968	784578
O	287m SW	Railway Station	1949	770777
O	289m SW	Railway Station	1908 - 1928	752491
R	289m SE	Unspecified Mills	1938	797870
O	290m SW	Railway Station	1911	782601
S	294m S	Filter Tanks	1911	801691
S	295m S	Filter Tanks	1911	725114
S	295m S	Filter Tanks	1949	791462



ID	Location	Land use	Dates present	Group ID
O	296m SW	Railway Station	1938	792274
T	297m N	Unspecified Heap	1928	764411
O	299m SW	Railway Station	1989	754755
R	300m SE	Unspecified Mill	1890	777877
O	301m SW	Railway Station	1968 - 1976	747275
K	302m SE	Unspecified Ground Workings	1930	737813
K	302m SE	Unspecified Ground Workings	1909	758806
S	303m S	Filter Tanks	1928	729650
K	303m SE	Unspecified Ground Workings	1909	708971
K	303m SE	Unspecified Ground Workings	1930	722798
R	303m SE	Unspecified Mills	1911	753641
U	304m W	Unspecified Mills	1938 - 1949	798887
S	304m S	Filter Tanks	1938	720733
O	306m SW	Railway Station	1892	798508
R	306m SE	Unspecified Mills	1949	774252
H	308m E	Unspecified Tanks	1891 - 1892	800751
R	308m SE	Unspecified Mills	1911 - 1928	757792
O	308m SW	Railway Station	1890	733109
H	309m E	Unspecified Tank	1891	697939
R	309m SE	Unspecified Mill	1892 - 1989	730956
T	311m N	Unspecified Heap	1949 - 1989	755933
U	311m W	Unspecified Mill	1968	673443
U	311m W	Unspecified Commercial/Industrial	1976 - 1989	725804
R	313m SE	Unspecified Mills	1908	715109
U	319m W	Unspecified Mills	1928	724761
N	330m SW	Railway Sidings	1890	740884
U	331m W	Unspecified Mills	1908	803801
O	334m SW	Railway Station	1851	747500



ID	Location	Land use	Dates present	Group ID
U	339m W	Unspecified Tank	1968	697836
V	340m NE	Unspecified Ground Workings	1891	757476
O	341m SW	Railway Sidings	1892	746174
U	343m W	Unspecified Tank	1908	697832
V	344m NE	Unspecified Ground Workings	1909	779182
V	344m NE	Unspecified Ground Workings	1930	805956
H	344m E	Coal Pit	1851	679532
U	346m W	Unspecified Tank	1938	697862
W	346m E	Unspecified Pit	1949 - 1989	772839
O	347m SW	Railway Building	1911	748962
W	347m E	Unspecified Pit	1911	727318
W	349m E	Unspecified Ground Workings	1930	787952
W	349m E	Unspecified Ground Workings	1909	788194
O	350m SW	Railway Building	1949	702917
O	352m SW	Railway Building	1938	764446
U	354m W	Unspecified Tank	1908	697858
O	355m SW	Railway Buildings	1911	657808
R	356m SE	Unspecified Mill	1976	759161
O	360m SW	Railway Building	1938 - 1949	717871
H	362m E	Coal Pit	1851	679533
O	369m SW	Railway Buildings	1938	657806
U	370m W	Unspecified Mills	1890	757258
O	371m SW	Railway Building	1949 - 1968	760518
U	371m W	Woollen Mill	1851	657539
O	375m SW	Railway Building	1911	748076
O	375m SW	Railway Building	1911	775044
O	376m SW	Railway Building	1892	794452
O	380m SW	Railway Building	1890	800940



ID	Location	Land use	Dates present	Group ID
O	381m SW	Railway Building	1928 - 1938	708332
X	383m NE	Engineering Works	1976	704852
Z	389m E	Unspecified Quarry	1930	686201
Z	389m E	Unspecified Old Quarry	1909	713602
Y	390m W	Unspecified Works	1968	746344
Y	392m W	Gas Works	1890 - 1908	728354
Y	392m W	Unspecified Commercial/Industrial	1949	717983
Z	393m E	Unspecified Old Quarry	1911	800969
O	394m SW	Railway Building	1949	702909
Z	395m E	Sandstone Quarry	1851	667792
Z	396m E	Unspecified Pit	1949	676144
Y	396m W	Unspecified Commercial/Industrial	1938	760259
Y	401m W	Unspecified Commercial/Industrial	1928	740409
AA	402m NE	Unspecified Tank	1989	697935
AB	404m E	Chimney	1949	702014
AB	407m E	Chimney	1930	702013
AC	411m NE	Wharf	1851	665248
7	417m SW	Unspecified Works	1968	728789
AD	426m E	Unspecified Pit	1968 - 1989	798787
Y	439m W	Unspecified Tank	1949 - 1968	712866
Y	443m W	Unspecified Tank	1938	721533
Y	444m W	Gasometer	1890 - 1908	776421
Y	448m W	Unspecified Tank	1928	718921
U	451m W	Gasometer	1851	659026
U	458m W	Unspecified Tank	1908 - 1928	743370
Y	467m W	Unspecified Tank	1949 - 1968	741754
Y	468m W	Unspecified Tank	1938	789204
Y	469m W	Gasometer	1890	659028



ID	Location	Land use	Dates present	Group ID
AD	470m E	Unspecified Tank	1949	697936
8	470m SW	Tannery	1949	673742
AD	471m E	Unspecified Tank	1930	697934
Y	473m W	Unspecified Tank	1908 - 1928	742743
U	479m W	Telephone Exchange	1968 - 1989	707065
Y	480m W	Unspecified Ground Workings	1968	661383
9	481m S	Coal Pit	1851	679531
10	482m W	Unspecified Works	1989	719294
11	497m SW	Colliery	1851	690184
12	500m SW	Railway Sidings	1911	758142

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	42
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 12 >](#)

ID	Location	Land use	Dates present	Group ID
D	123m NE	Unspecified Tank	1983 - 1993	96789
F	162m SE	Unspecified Tank	1930 - 1937	99459
H	177m E	Unspecified Tank	1964	85044
H	183m E	Unspecified Tank	1930 - 1937	92082
F	190m SE	Filter Tanks	1930 - 1937	98086
F	192m SE	Filter Tanks	1910	97708
F	204m SE	Unspecified Tank	1977 - 1988	106481
S	303m S	Filter Tanks	1910 - 1930	95083



ID	Location	Land use	Dates present	Group ID
S	304m S	Filter Tanks	1937	97406
H	306m E	Unspecified Tank	1891	85059
K	307m SE	Unspecified Tank	1910 - 1928	102364
R	344m SE	Filter Tanks	1910	83349
R	350m SE	Unspecified Tank	1977	85041
U	350m W	Unspecified Tank	1910	90935
R	354m SE	Unspecified Tank	1977	85042
X	359m NE	Unspecified Tank	1983	104593
X	359m NE	Unspecified Tank	1975	98532
R	362m SE	Unspecified Tank	1891	85056
X	363m NE	Unspecified Tank	1983	98195
X	363m NE	Unspecified Tank	1975	102580
R	378m S	Unspecified Tank	1937	85058
Y	389m W	Gas Works	1965	106405
Y	390m W	Gas Works	1891	105445
Y	390m W	Gas Works	1910	94228
AA	399m NE	Unspecified Tank	1989 - 1993	104107
Y	429m W	Tanks	1910 - 1937	94759
Y	439m W	Tanks	1961	82790
Y	440m W	Unspecified Tank	1960	91938
Y	440m W	Gasometer	1965	101391
AC	440m NE	Tank or Trough	1891	83514
Y	443m W	Gasometer	1891 - 1910	95727
Y	443m W	Unspecified Tank	1930 - 1937	105417
Y	446m W	Unspecified Tank	1960	91503
Y	446m W	Unspecified Tank	1985	98582
U	453m W	Unspecified Tank	1891 - 1930	107738
Y	465m W	Gasometer	1965	99283



ID	Location	Land use	Dates present	Group ID
Y	465m W	Unspecified Tank	1960	105196
Y	467m W	Gasometer	1891 - 1910	94180
Y	467m W	Unspecified Tank	1930 - 1937	96046
AD	474m E	Unspecified Tank	1928	85047
Y	481m W	Unspecified Tank	1970	94711
Y	481m W	Unspecified Tank	1960	98276

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	16
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 12 >](#)

ID	Location	Land use	Dates present	Group ID
B	98m S	Electricity Substation	1993	57992
B	99m SW	Electricity Substation	1988	55888
3	131m N	Electricity Substation	1975 - 1993	57152
D	142m NE	Electricity Substation	1989 - 1993	59057
F	216m SE	Electricity Substation	1977	56150
F	217m SE	Electricity Substation	1988	59198
P	261m SW	Electricity Substation	1993	58426
P	263m SW	Electricity Substation	1988	57714
R	350m SE	Electricity Substation	1977 - 1988	50209
Y	389m W	Gas Works	1965	59156
Y	390m W	Gas Works	1891	59440
Y	390m W	Gas Works	1910	63695



ID	Location	Land use	Dates present	Group ID
Y	440m W	Gasometer	1965	52115
Y	443m W	Gasometer	1891 - 1910	61606
Y	465m W	Gasometer	1965	62562
Y	467m W	Gasometer	1891 - 1910	59125

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	10
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 12 >](#)

ID	Location	Land use	Dates present	Group ID
C	91m SE	Vehicle Dismantling Yard	1983 - 1989	17808
C	91m SE	Vehicle Dismantling Yard	1993	21827
C	92m SE	Vehicle Dismantling Yard	1975	20747
E	134m NE	Garage	1983 - 1989	21763
E	135m NE	Garage	1993	20357
F	140m SE	Garage	1964	21449
F	140m SE	Garage	1977 - 1988	16746



ID	Location	Land use	Dates present	Group ID
F	140m SE	Garage	1961	18126
E	151m N	Garage	1975	16544
E	178m N	Garage	1960 - 1964	17280

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

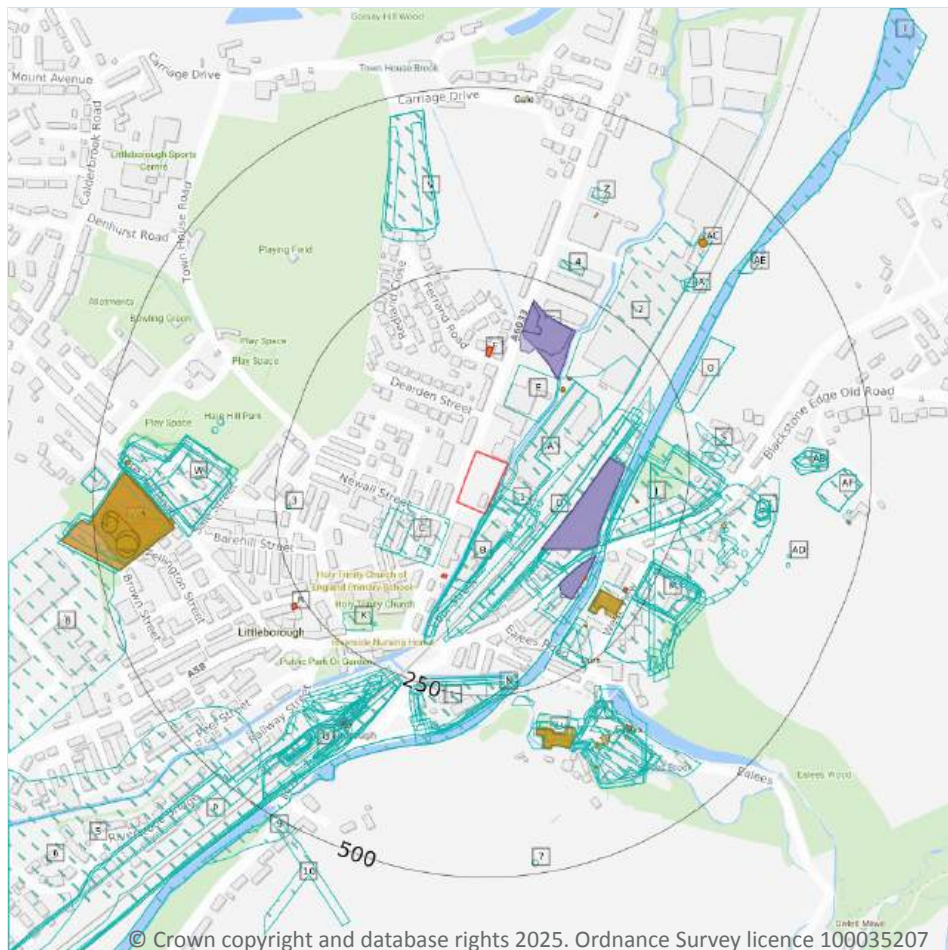
0

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

227

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
A	On site	Unspecified Works	1968	799732
B	On site	Sawmills	1911	765538
B	On site	Sawmills	1911	765538



ID	Location	Land Use	Date	Group ID
B	3m S	Unspecified Mills	1949	754655
B	4m S	Unspecified Mills	1928	797162
1	5m S	Unspecified Works	1976	707313
B	6m SE	Unspecified Mills	1938	754655
A	6m SE	Unspecified Works	1989	707313
C	26m SW	Unspecified Mill	1892	727807
D	58m SE	Railway Sidings	1911	790016
C	63m SW	Unspecified Mill	1890	727807
E	69m NE	Unspecified Works	1976	769770
D	71m SE	Railway Sidings	1928	766243
D	71m SE	Railway Sidings	1908	792612
C	74m SW	Police Station	1968	706536
D	77m SE	Railway Sidings	1968	759178
D	77m SE	Railway Sidings	1938	791743
D	78m SE	Railway Sidings	1949	739817
D	92m SE	Unspecified Mill	1890	737122
D	93m SE	Unspecified Mill	1911	710435
D	93m SE	Unspecified Mill	1911	710435
D	95m SE	Unspecified Mill	1949	778074
D	97m SE	Unspecified Commercial/Industrial	1928	712112
D	97m SE	Unspecified Commercial/Industrial	1908	758665
D	98m SE	Unspecified Mill	1938	778074
D	102m SE	Unspecified Mill	1892	787873
H	141m SE	Unspecified Mill	1890	780749
2	141m NE	Unspecified Works	1989	747682
H	152m SE	Unspecified Mill	1892	780749
I	154m E	Disused Canal	1989	732190
I	154m E	Disused Canal	1976	763039



ID	Location	Land Use	Date	Group ID
J	160m E	Dock Yard	1851	690012
J	161m E	Iron Foundry	1911	755200
J	163m E	Iron Foundry	1949	778415
J	170m SE	Unspecified Depot	1976	669540
J	170m SE	Unspecified Commercial/Industrial	1968	755825
G	182m N	Garage	1976	673803
H	188m SE	Unspecified Tanks	1949	733438
H	190m SE	Unspecified Tanks	1928	794899
H	190m SE	Unspecified Tanks	1938	762700
H	191m SE	Refuse Heap	1949	762448
K	193m SW	Grave Yard	1851	663408
J	196m E	Iron Foundry	1930	707420
J	196m E	Iron Foundry	1909	755200
H	196m SE	Refuse Heap	1938	762448
H	197m SE	Refuse Heap	1928	752219
K	199m SW	Unspecified Tank	1851	697860
J	203m E	Unspecified Commercial/Industrial	1891	743169
L	224m S	Unspecified Mill	1911	715926
L	224m S	Unspecified Mill	1911	754243
L	226m S	Unspecified Mill	1890	768983
L	227m S	Unspecified Works	1968	683248
3	229m W	Pump	1851	682597
J	231m E	Fire Brick and Pipe Works	1891	745772
L	232m S	Unspecified Mill	1892	768983
L	232m S	Unspecified Mill	1928	754243
M	232m SE	Woollen Mills	1911	750419
M	233m SE	Bleaching, Dyeing and Chemical Mills	1911	687381
M	233m SE	Woollen Mills	1911	750419



ID	Location	Land Use	Date	Group ID
M	233m SE	Bleaching and Dyeing Mills	1911	706214
L	234m S	Unspecified Mill	1908	805156
N	235m S	Unspecified Tank	1892	697861
M	236m SE	Unspecified Mill	1949	752204
M	236m SE	Unspecified Works	1989	713738
M	236m SE	Unspecified Works	1976	713738
M	236m SE	Unspecified Mill	1968	788235
M	236m SE	Unspecified Mill	1930	708372
M	236m SE	Unspecified Mill	1909	732639
M	243m SE	Woollen Mill	1892	788114
O	243m E	Engineering Works	1976	704853
O	243m E	Corporation Yard	1968	704792
P	245m SW	Railway Sidings	1938	742133
M	247m SE	Woollen Mill	1891	789090
Q	252m SW	Railway Sidings	1911	767249
J	252m E	Fire Brick and Pipe Works	1892	723567
Q	253m SW	Unspecified Ground Workings	1851	753031
N	254m S	Unspecified Pit	1938	676145
Q	255m SW	Railway Sidings	1911	767249
Q	257m SW	Unspecified Pit	1890	747686
Q	260m SW	Unspecified Ground Workings	1968	753031
P	262m SW	Railway Sidings	1928	738367
S	263m E	Unspecified Ground Workings	1891	661498
S	264m E	Refuse Heap	1949	797771
S	266m E	Refuse Heap	1930	797771
P	266m SW	Railway Sidings	1949	760705
P	266m SW	Railway Sidings	1968	760705
P	268m SW	Railway Sidings	1908	784940



ID	Location	Land Use	Date	Group ID
Q	268m SW	Unspecified Pit	1928	754017
Q	268m SW	Unspecified Pit	1908	731959
J	271m E	Iron Foundry	1851	705140
Q	271m SW	Unspecified Heap	1938	688701
4	277m NE	Engineering Works	1976	704851
J	281m E	Unspecified Tank	1892	697938
T	281m SE	Woollen Mill	1851	657547
T	285m S	Unspecified Mill	1968	784578
Q	287m SW	Railway Station	1949	770777
Q	289m SW	Railway Station	1911	752491
T	289m SE	Unspecified Mills	1938	797870
Q	290m SW	Railway Station	1911	782601
U	294m S	Filter Tanks	1911	801691
U	294m S	Filter Tanks	1911	801691
U	295m S	Filter Tanks	1911	725114
U	295m S	Filter Tanks	1949	791462
Q	296m SW	Railway Station	1938	792274
V	297m N	Unspecified Heap	1928	764411
Q	299m SW	Railway Station	1989	754755
T	300m SE	Unspecified Mill	1890	777877
Q	301m SW	Railway Station	1976	747275
Q	301m SW	Railway Station	1968	747275
M	302m SE	Unspecified Ground Workings	1930	737813
M	302m SE	Unspecified Ground Workings	1909	758806
Q	302m SW	Railway Station	1928	752491
Q	302m SW	Railway Station	1908	752491
U	303m S	Filter Tanks	1928	729650
M	303m SE	Unspecified Ground Workings	1930	722798



ID	Location	Land Use	Date	Group ID
M	303m SE	Unspecified Ground Workings	1909	708971
T	303m SE	Unspecified Mills	1911	753641
W	304m W	Unspecified Mills	1949	798887
U	304m S	Filter Tanks	1938	720733
W	304m W	Unspecified Mills	1938	798887
Q	306m SW	Railway Station	1892	798508
T	306m SE	Unspecified Mills	1949	774252
J	308m E	Unspecified Tanks	1892	800751
T	308m SE	Unspecified Mills	1911	757792
Q	308m SW	Railway Station	1890	733109
J	309m E	Unspecified Tank	1891	697939
T	309m SE	Unspecified Mill	1892	730956
T	310m SE	Unspecified Mills	1928	757792
V	311m N	Unspecified Heap	1989	755933
V	311m N	Unspecified Heap	1976	755933
V	311m N	Unspecified Heap	1949	755933
V	311m N	Unspecified Heap	1968	755933
W	311m W	Unspecified Commercial/Industrial	1989	725804
W	311m W	Unspecified Commercial/Industrial	1976	725804
W	311m W	Unspecified Mill	1968	673443
J	312m E	Unspecified Tanks	1891	800751
T	313m SE	Unspecified Mills	1908	715109
W	319m W	Unspecified Mills	1928	724761
P	330m SW	Railway Sidings	1890	740884
W	331m W	Unspecified Mills	1908	803801
Q	334m SW	Railway Station	1851	747500
W	339m W	Unspecified Tank	1968	697836
X	340m NE	Unspecified Ground Workings	1891	757476



ID	Location	Land Use	Date	Group ID
Q	341m SW	Railway Sidings	1892	746174
W	343m W	Unspecified Tank	1908	697832
X	344m NE	Unspecified Ground Workings	1930	805956
X	344m NE	Unspecified Ground Workings	1909	779182
J	344m E	Coal Pit	1851	679532
W	346m W	Unspecified Tank	1938	697862
Y	346m E	Unspecified Pit	1989	772839
Y	346m E	Unspecified Pit	1976	772839
Y	346m E	Unspecified Pit	1949	772839
Y	346m E	Unspecified Pit	1968	772839
Q	347m SW	Railway Building	1911	748962
Y	347m E	Unspecified Pit	1911	727318
Y	347m E	Unspecified Pit	1911	727318
Y	347m E	Unspecified Pit	1911	727318
Y	349m E	Unspecified Ground Workings	1930	787952
Y	349m E	Unspecified Ground Workings	1909	788194
Q	350m SW	Railway Building	1949	702917
Q	352m SW	Railway Building	1938	764446
T	353m SE	Unspecified Mill	1989	730956
W	354m W	Unspecified Tank	1908	697858
Q	355m SW	Railway Buildings	1911	657808
T	356m SE	Unspecified Mill	1976	759161
Q	360m SW	Railway Building	1938	717871
J	362m E	Coal Pit	1851	679533
Q	369m SW	Railway Buildings	1938	657806
Q	370m SW	Railway Building	1949	717871
W	370m W	Unspecified Mills	1890	757258
Q	371m SW	Railway Building	1949	760518



ID	Location	Land Use	Date	Group ID
W	371m W	Woollen Mill	1851	657539
Q	375m SW	Railway Building	1911	748076
Q	375m SW	Railway Building	1911	775044
Q	376m SW	Railway Building	1968	760518
Q	376m SW	Railway Building	1892	794452
Q	380m SW	Railway Building	1890	800940
Q	381m SW	Railway Building	1938	708332
Q	383m SW	Railway Building	1928	708332
Z	383m NE	Engineering Works	1976	704852
AB	389m E	Unspecified Quarry	1930	686201
AB	389m E	Unspecified Old Quarry	1909	713602
AA	390m W	Unspecified Works	1968	746344
AA	392m W	Gas Works	1890	728354
AA	392m W	Unspecified Commercial/Industrial	1949	717983
AB	393m E	Unspecified Old Quarry	1911	800969
AB	393m E	Unspecified Old Quarry	1911	800969
Q	394m SW	Railway Building	1949	702909
AB	395m E	Sandstone Quarry	1851	667792
AB	396m E	Unspecified Pit	1949	676144
AA	396m W	Unspecified Commercial/Industrial	1938	760259
AA	401m W	Unspecified Commercial/Industrial	1928	740409
AA	401m W	Gas Works	1908	728354
AC	402m NE	Unspecified Tank	1989	697935
AD	404m E	Chimney	1949	702014
AD	407m E	Chimney	1930	702013
AE	411m NE	Wharf	1851	665248
5	417m SW	Unspecified Works	1968	728789
AF	426m E	Unspecified Pit	1989	798787



ID	Location	Land Use	Date	Group ID
AF	426m E	Unspecified Pit	1976	798787
AF	426m E	Unspecified Pit	1968	798787
AA	439m W	Unspecified Tank	1949	712866
AA	439m W	Unspecified Tank	1968	712866
AA	443m W	Unspecified Tank	1938	721533
AA	444m W	Gasometer	1890	776421
AA	448m W	Gasometer	1908	776421
AA	448m W	Unspecified Tank	1928	718921
W	451m W	Gasometer	1851	659026
W	458m W	Unspecified Tank	1928	743370
W	458m W	Unspecified Tank	1908	743370
AA	467m W	Unspecified Tank	1949	741754
AA	467m W	Unspecified Tank	1968	741754
AA	468m W	Unspecified Tank	1938	789204
AA	469m W	Gasometer	1890	659028
AF	470m E	Unspecified Tank	1949	697936
6	470m SW	Tannery	1949	673742
AF	471m E	Unspecified Tank	1930	697934
AA	473m W	Unspecified Tank	1928	742743
AA	473m W	Unspecified Tank	1908	742743
W	479m W	Telephone Exchange	1989	707065
W	479m W	Telephone Exchange	1976	707065
W	479m W	Telephone Exchange	1968	707065
AA	480m W	Unspecified Ground Workings	1968	661383
7	481m S	Coal Pit	1851	679531
8	482m W	Unspecified Works	1989	719294
9	497m SW	Colliery	1851	690184
10	500m SW	Railway Sidings	1911	758142

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

62

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
E	123m NE	Unspecified Tank	1983	96789
E	123m NE	Unspecified Tank	1989	96789
E	123m NE	Unspecified Tank	1989	96789
E	124m NE	Unspecified Tank	1993	96789
H	162m SE	Unspecified Tank	1930	99459
H	162m SE	Unspecified Tank	1937	99459
J	177m E	Unspecified Tank	1964	85044
J	183m E	Unspecified Tank	1930	92082
J	183m E	Unspecified Tank	1937	92082
H	190m SE	Filter Tanks	1930	98086
H	190m SE	Filter Tanks	1937	98086
H	192m SE	Filter Tanks	1910	97708
H	204m SE	Unspecified Tank	1977	106481
H	205m SE	Unspecified Tank	1988	106481
H	205m SE	Unspecified Tank	1988	106481
U	303m S	Filter Tanks	1910	95083
U	303m S	Filter Tanks	1930	95083
U	304m S	Filter Tanks	1937	97406
J	306m E	Unspecified Tank	1891	85059
M	307m SE	Unspecified Tank	1910	102364
M	307m SE	Unspecified Tank	1928	102364
T	344m SE	Filter Tanks	1910	83349
T	350m SE	Unspecified Tank	1977	85041



ID	Location	Land Use	Date	Group ID
W	350m W	Unspecified Tank	1910	90935
T	354m SE	Unspecified Tank	1977	85042
Z	359m NE	Unspecified Tank	1983	104593
Z	359m NE	Unspecified Tank	1975	98532
T	362m SE	Unspecified Tank	1891	85056
Z	363m NE	Unspecified Tank	1983	98195
Z	363m NE	Unspecified Tank	1975	102580
T	378m S	Unspecified Tank	1937	85058
AA	389m W	Gas Works	1965	106405
AA	390m W	Gas Works	1891	105445
AA	390m W	Gas Works	1910	94228
AC	399m NE	Unspecified Tank	1993	104107
AC	400m NE	Unspecified Tank	1989	104107
AC	400m NE	Unspecified Tank	1989	104107
AA	429m W	Tanks	1910	94759
AA	429m W	Tanks	1930	94759
AA	429m W	Tanks	1937	94759
AA	439m W	Tanks	1961	82790
AA	440m W	Unspecified Tank	1960	91938
AA	440m W	Gasometer	1965	101391
AE	440m NE	Tank or Trough	1891	83514
AA	443m W	Gasometer	1891	95727
AA	443m W	Gasometer	1910	95727
AA	443m W	Unspecified Tank	1930	105417
AA	443m W	Unspecified Tank	1937	105417
AA	446m W	Unspecified Tank	1960	91503
AA	446m W	Unspecified Tank	1985	98582
W	453m W	Unspecified Tank	1891	107738



ID	Location	Land Use	Date	Group ID
W	453m W	Unspecified Tank	1910	107738
W	453m W	Unspecified Tank	1930	107738
AA	465m W	Unspecified Tank	1960	105196
AA	465m W	Gasometer	1965	99283
AA	467m W	Gasometer	1891	94180
AA	467m W	Gasometer	1910	94180
AA	467m W	Unspecified Tank	1930	96046
AA	467m W	Unspecified Tank	1937	96046
AF	474m E	Unspecified Tank	1928	85047
AA	481m W	Unspecified Tank	1970	94711
AA	481m W	Unspecified Tank	1960	98276

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	27
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
C	98m S	Electricity Substation	1993	57992
C	99m SW	Electricity Substation	1988	55888
F	131m N	Electricity Substation	1993	57152
F	131m N	Electricity Substation	1983	57152
F	131m N	Electricity Substation	1989	57152
F	131m N	Electricity Substation	1989	57152
F	131m N	Electricity Substation	1975	57152
E	142m NE	Electricity Substation	1993	59057
E	143m NE	Electricity Substation	1989	59057



ID	Location	Land Use	Date	Group ID
E	143m NE	Electricity Substation	1989	59057
H	216m SE	Electricity Substation	1977	56150
H	217m SE	Electricity Substation	1988	59198
H	217m SE	Electricity Substation	1988	59198
R	261m SW	Electricity Substation	1993	58426
R	263m SW	Electricity Substation	1988	57714
T	350m SE	Electricity Substation	1977	50209
T	350m SE	Electricity Substation	1988	50209
T	350m SE	Electricity Substation	1988	50209
AA	389m W	Gas Works	1965	59156
AA	390m W	Gas Works	1891	59440
AA	390m W	Gas Works	1910	63695
AA	440m W	Gasometer	1965	52115
AA	443m W	Gasometer	1891	61606
AA	443m W	Gasometer	1910	61606
AA	465m W	Gasometer	1965	62562
AA	467m W	Gasometer	1891	59125
AA	467m W	Gasometer	1910	59125

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

17

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'.

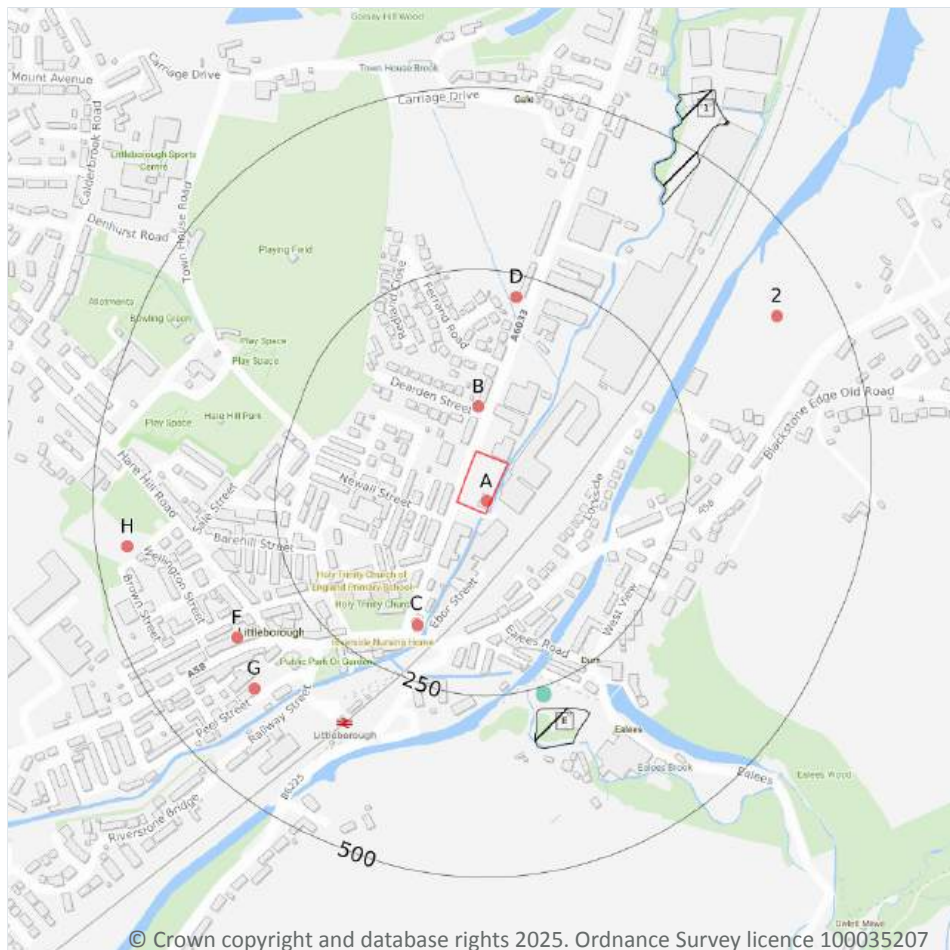
Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
D	91m SE	Vehicle Dismantling Yard	1983	17808
D	91m SE	Vehicle Dismantling Yard	1989	17808
D	91m SE	Vehicle Dismantling Yard	1989	17808
D	91m SE	Vehicle Dismantling Yard	1993	21827
D	92m SE	Vehicle Dismantling Yard	1975	20747
G	134m NE	Garage	1983	21763
G	134m NE	Garage	1989	21763
G	134m NE	Garage	1989	21763
G	135m NE	Garage	1993	20357
H	140m SE	Garage	1964	21449
H	140m SE	Garage	1988	16746
H	140m SE	Garage	1988	16746
H	140m SE	Garage	1961	18126
H	140m SE	Garage	1977	16746
G	151m N	Garage	1975	16544
G	178m N	Garage	1964	17280
G	178m N	Garage	1960	17280

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- 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

1

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

Features are displayed on the Waste and landfill map on [page 38 >](#)



ID	Location	Address	BGS Number	Risk	Waste Type
E	261m S	Eales Mill, Eales, Littleborough, Lancs	501	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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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	2
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Details		
E	279m S	Site Address: Ealees Mill, Eales, Littleborough, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Fothergill and Harvey Limited Licence Holder: - First Recorded 31/12/1945 Last Recorded: -
1	415m NE	Site Address: PLYSU, Off Todmorden Road, Gale, Littleborough, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D103 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	0
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

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

3.7 Waste exemptions

Records within 500m	98
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Use of waste in construction
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	On site	-	WEX356451	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX356451	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX356451	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
A	On site	-	WEX356451	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	-	WEX356451	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	-	WEX356451	Using waste exemption	Not on a farm	Use of mulch
A	On site	-	WEX356451	Treating waste exemption	Not on a farm	Screening and blending of waste
A	On site	-	WEX356451	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste in construction
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste for a specified purpose
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of mulch
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Screening and blending of waste
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
B	61m N	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Disposing of waste exemption	Not on a farm	Burning waste in the open
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste in construction
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
C	176m SW	-	WEX356463	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	176m SW	-	WEX356463	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	176m SW	-	WEX356463	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
C	176m SW	-	WEX356463	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	176m SW	-	WEX356463	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	176m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of mulch
C	176m SW	-	WEX356463	Treating waste exemption	Not on a farm	Screening and blending of waste
C	176m SW	-	WEX356463	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste in construction
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste for a specified purpose
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of mulch
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Screening and blending of waste
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
C	178m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	219m N	-	WEX356448	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	219m N	-	WEX356448	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste in construction
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste for a specified purpose
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	219m N	-	WEX356448	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	219m N	-	WEX356448	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	219m N	-	WEX356448	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
D	219m N	-	WEX356448	Using waste exemption	Not on a farm	Use of mulch
D	219m N	-	WEX356448	Treating waste exemption	Not on a farm	Screening and blending of waste
D	219m N	-	WEX356448	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
F	356m SW	60, Church Street, Littleborough, OL15 8au	WEX297121	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	356m SW	60, Church Street, Littleborough, OL15 8au	WEX162347	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste for a specified purpose
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Screening and blending of waste
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Disposing of waste exemption	Not on a farm	Burning waste in the open
G	379m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of mulch
2	421m NE	-	WEX369295	Storing waste exemption	On a farm	Storage of sludge

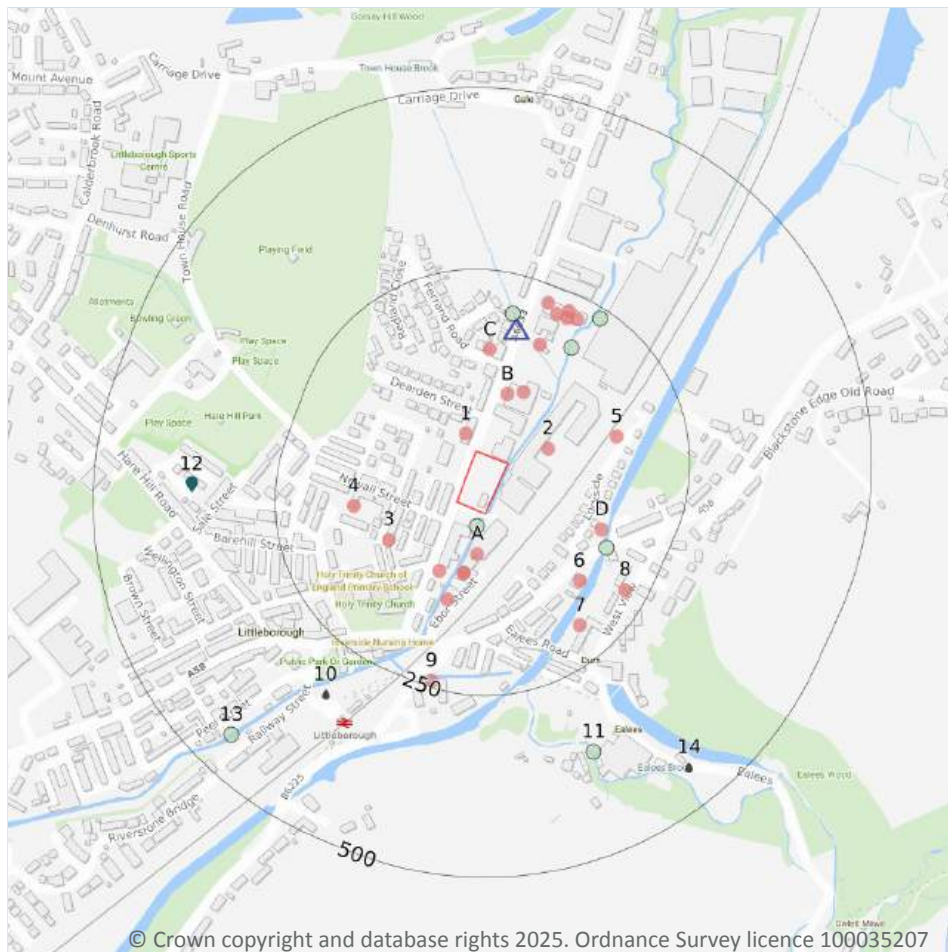


ID	Location	Site	Reference	Category	Sub-Category	Description
H	457m W	Hares Hill Farm Hares Hill Road OI15 9ad	EPR/SE5283AY /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
H	457m W	Hares Hill Farm Hares Hill Road OI15 9ad	EPR/SE5283AY /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit

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)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

24

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 48](#) >

ID	Location	Company	Address	Activity	Category
1	28m N	Manchester Onsite Spray Solutions	49, Todmorden Road, Littleborough, Greater Manchester, OL15 9EA	Industrial Coatings and Finishings	Industrial Products
A	57m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
2	59m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
A	87m S	Dustolex	Surface Preparation, Ebor Street, Littleborough, Greater Manchester, OL15 9AS	Air and Water Filtration	Industrial Products
A	87m S	Quickduct Ltd	Ebor Street, Littleborough, Greater Manchester, OL15 9AS	Cooling and Refrigeration	Industrial Products
B	89m N	C R P	Corrosion Resistant Products Ltd, Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	General Construction Supplies	Industrial Products
A	98m SW	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
B	100m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
3	107m SW	Abacus Weighing Services	7, Howarth Street, Littleborough, Greater Manchester, OL15 9DN	Measurement and Inspection Equipment	Industrial Products
A	129m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
C	141m N	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
4	142m W	Rochdale House Clearance	7, Phoenix Street, Littleborough, Greater Manchester, OL15 9DR	Clearance and Salvage Dealers	Recycling Services
5	154m E	Mast (Telecommunication)	Greater Manchester, OL15	Telecommunications Features	Infrastructure and Facilities
D	155m E	Mooring Posts	Greater Manchester, OL15	Moorings and Unloading Facilities	Water
6	159m SE	Victoria Garage	Halifax Road, Littleborough, Greater Manchester, OL15 0HB	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	168m NE	Whaley & Sons Caravan Centre	Riverside Business Centre, Todmorden Road, Littleborough, Lancashire, Greater Manchester, OL15 9EG	New Vehicles	Motoring
7	201m SE	Tank	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
C	216m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
C	217m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
8	219m SE	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
C	220m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
C	225m NE	G N G Foam Converters Lancs Ltd	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Rubber, Silicones and Plastics	Industrial Products
C	226m N	Stanton Motor Garage	Unit 4, Python Industrial Estate, Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Vehicle Repair, Testing and Servicing	Repair and Servicing
9	241m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

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

Features are displayed on the Current industrial land use map on [page 48 >](#)

ID	Location	Company	Address	LPG	Status
C	176m N	UK	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

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

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0
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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	1
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 48 >](#)

ID	Location	Address	Details	
12	366m W	Proofings Coated Textiles Ltd, 64 Hare Hill Road, Littleborough, Lancashire, OL15 9HE	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

4.13 Licensed Discharges to controlled waters

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 48](#) >

ID	Location	Address	Details	
10	320m SW	ACCESSRAMP&CARPARKSWO,ADJ ACENTLITTLEBOROUGHCARPARK,L ITLEBOROUGH,GREATERMANCHES TER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991149 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/10/1991 Revocation Date: 23/10/1991
14	447m SE	OLDMILLCOTTAGEAND,MILLSTON ECOTTAGE,EALEES,LITTLEBOROU H,LANCASHIRE,OL15OHJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1359 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 11/05/1971 Effective Date: 11/05/1971 Revocation Date: 02/03/2008

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

7

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 48 >](#)

ID	Location	Details	
A	20m S	Incident Date: 25/09/2003 Incident Identification: 192529 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	171m SE	Incident Date: 11/08/2002 Incident Identification: 99330 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	181m NE	Incident Date: 26/11/2002 Incident Identification: 123182 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	196m N	Incident Date: 20/09/2002 Incident Identification: 109323 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	236m NE	Incident Date: 12/06/2004 Incident Identification: 243857 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	360m SE	Incident Date: 31/05/2008 Incident Identification: 591953 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
13	445m SW	Incident Date: 15/08/2002 Incident Identification: 100666 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 3 (Minor) 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
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.20 Pollution inventory waste transfers

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

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

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

4.21 Pollution inventory radioactive waste

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

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

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

5 Geology (basic)

5.1 Superficial geology (625k)

Records within 500m

2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
119m W	TILL-DMTN	TILL	DIAMICTON
200m SE	ALV-CLSS	ALLUVIUM	CLAY, SILT AND SAND

This data is sourced from the British Geological Survey.

5.2 Bedrock geology (625k)

Records within 500m

1

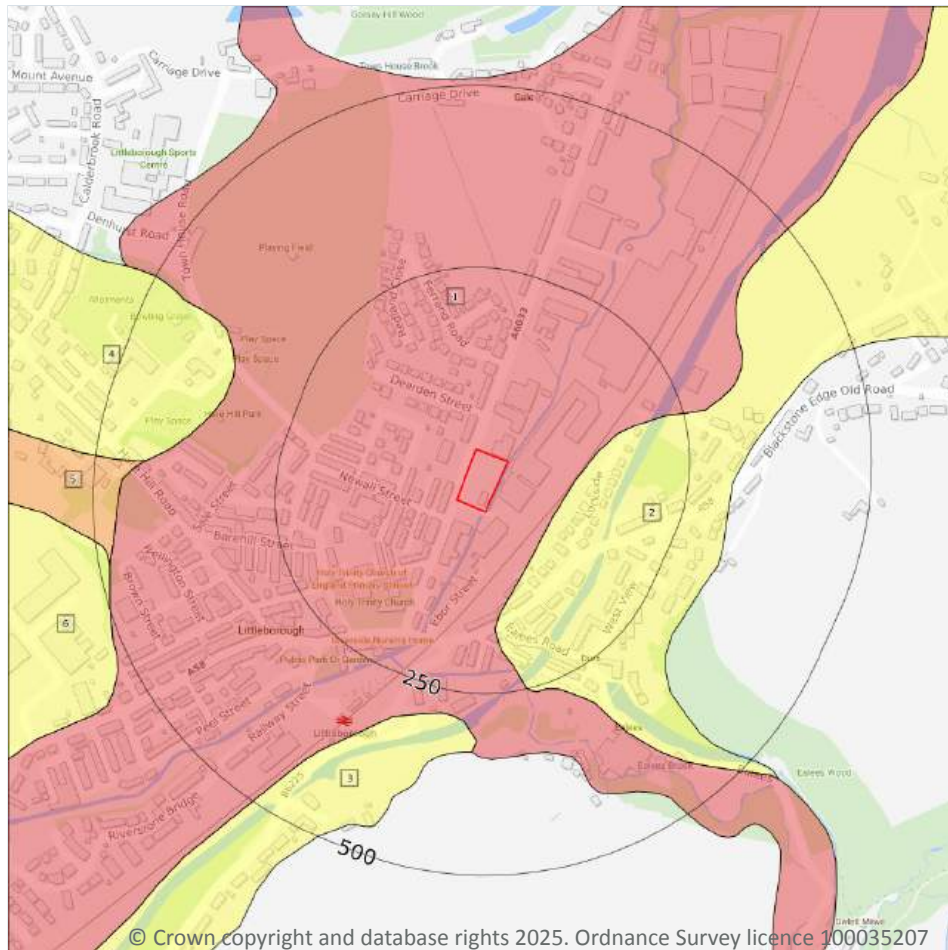
Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	PSLCM-MSCI	PENNINE LOWER COAL MEASURES FORMATION AND SOUTH WALES LOWER COAL MEASURES FORMATION (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE, SANDSTONE, COAL, IRONSTONE AND FERRICRETE

This data is sourced from the British Geological Survey.



6 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

6.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 57](#) >

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	86m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

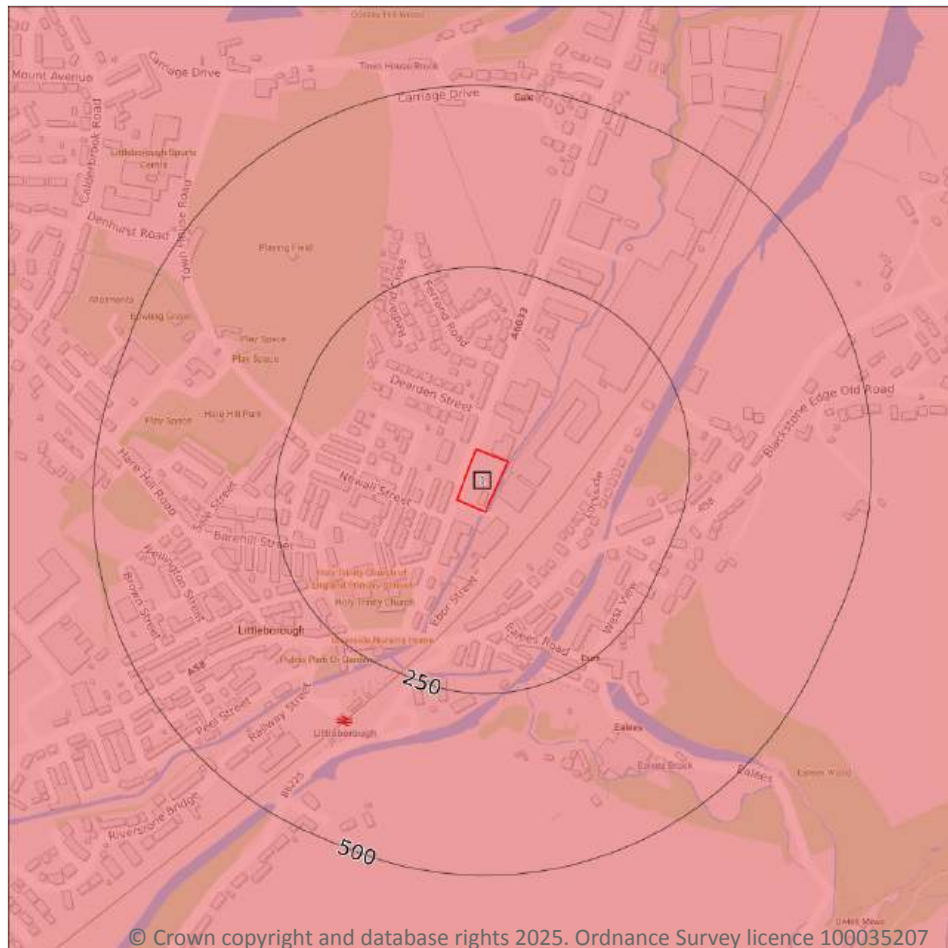


ID	Location	Designation	Description
3	283m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	347m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	430m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
6	485m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

6.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

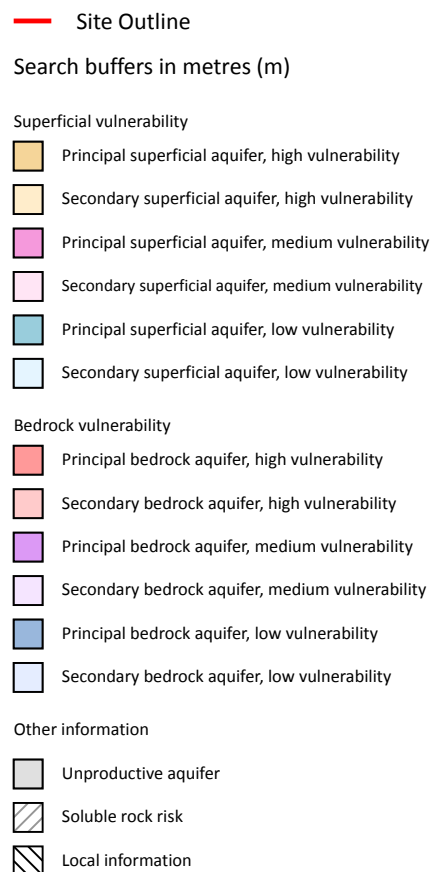
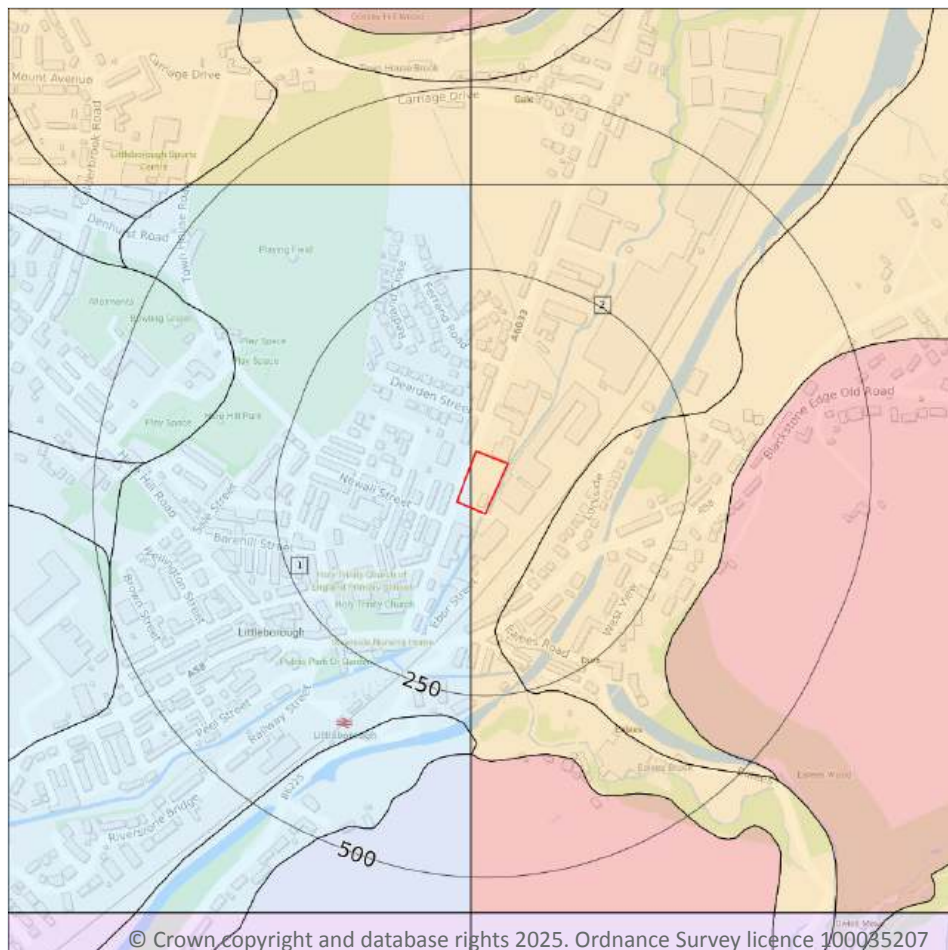
Features are displayed on the Bedrock aquifer map on [page 59](#) >

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.



Groundwater vulnerability



6.3 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 60](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	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.

6.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

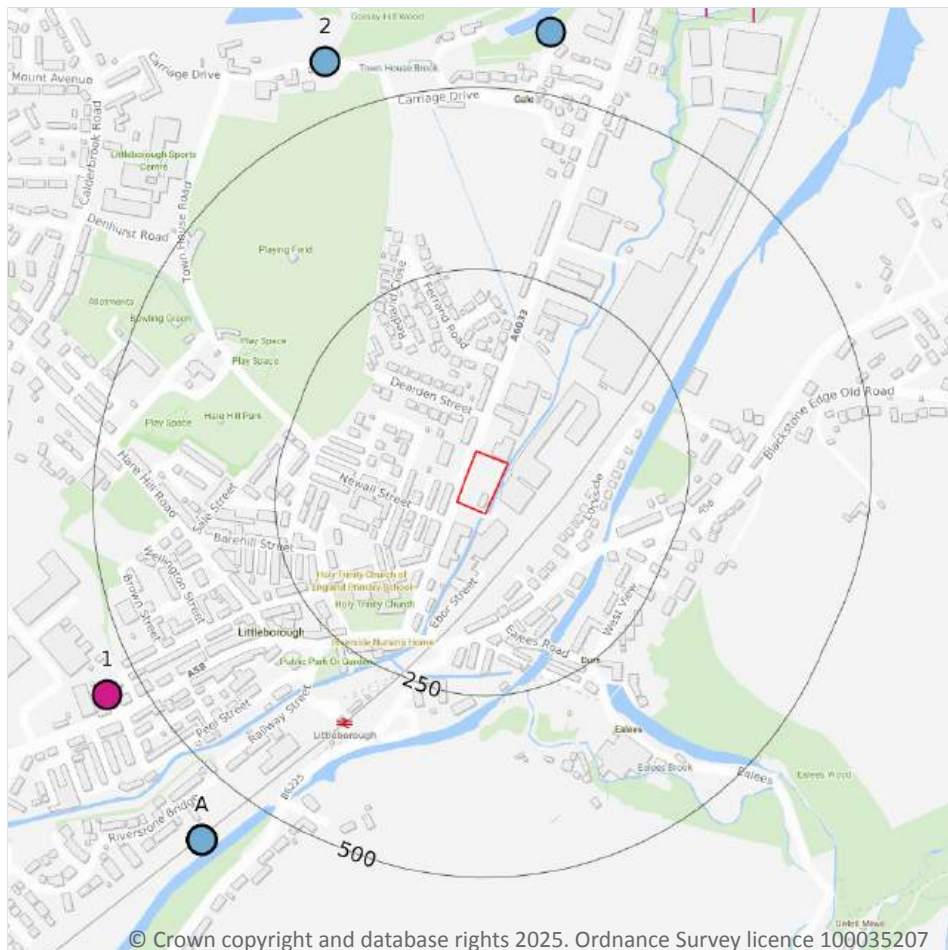
6.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

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
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)

6.6 Groundwater abstractions

Records within 2000m

8

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 62 >](#)



ID	Location	Details	
1	549m SW	Status: Historical Licence No: 2569002250 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOCKTON STREET LITTLEBOROUGH Data Type: Point Name: VITA THERMOPLASTIC COMPOUNDS LTD Easting: 393500 Northing: 416300	Annual Volume (m ³): 72730 Max Daily Volume (m ³): 331 Original Application No: - Original Start Date: 23/01/1991 Expiry Date: - Issue No: 101 Version Start Date: 24/10/2005 Version End Date: -
4	657m N	Status: Active Licence No: NW/069/0002/018 Details: Dewatering Direct Source: Ground Water - North West Region Point: GALE WEST SITE, LITTLEBOROUGH Data Type: Poly4 Name: Volkerstevin Limited Easting: 394374 Northing: 417513	Annual Volume (m ³): 600000 Max Daily Volume (m ³): 7680 Original Application No: NPS/WR/037282 Original Start Date: 15/03/2024 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 15/03/2024 Version End Date: -
-	672m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH" Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -
-	672m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -



ID	Location	Details	
-	955m NE	Status: Historical Licence No: NW/069/0002/016 Details: Dewatering Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA OF ALLUVIUM DESPOSITS AT GALE Data Type: Poly4 Name: J. Murphy & Sons Limited Easting: 394501 Northing: 417529	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/10/2021 Expiry Date: 31/01/2022 Issue No: 1 Version Start Date: 01/10/2021 Version End Date: -
-	1219m SE	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1219m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1219m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -

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



6.7 Surface water abstractions

Records within 2000m

65

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 62 >](#)

ID	Location	Details	
2	574m N	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW AT LI Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 393800 Northing: 417170	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
A	582m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
A	582m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
A	582m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
A	582m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
A	582m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
3	585m N	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW111 Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 394110 Northing: 417210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -
-	807m SE	Status: Historical Licence No: 2569002136 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35641 Max Daily Volume (m ³): 136 Original Application No: 0074 Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -
-	807m SE	Status: Historical Licence No: 2569002136 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35641 Max Daily Volume (m ³): 136 Original Application No: 0074 Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -



ID	Location	Details	
-	882m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
-	882m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	882m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
-	882m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	1011m SE	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1011m SE	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569001244 Details: Make-Up or Top Up Water Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -



ID	Location	Details	
-	1042m NW	Status: Historical Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: Todmorden Anglers Society Easting: 393300 Northing: 417400	Annual Volume (m ³): 72000 Max Daily Volume (m ³): 197.26 Original Application No: NPS/WR/030019 Original Start Date: 07/05/1993 Expiry Date: - Issue No: 5 Version Start Date: 24/12/2018 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: BARBER Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 3 Version Start Date: 01/04/2000 Version End Date: -
-	1042m NW	Status: Historical Licence No: 2569001244 Details: Make-Up Or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): 72000 Max Daily Volume (m ³): 197.26 Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -
-	1172m NE	Status: Historical Licence No: NW/069/0002/012 Details: General Use Relating To Secondary Category (Very Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: CANAL FEEDER AT LYDGATE BROOK Data Type: Point Name: Canal and River Trust Easting: 394713 Northing: 417585	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1172m NE	Status: Historical Licence No: NW/069/0002/012 Details: Supply To A Canal For Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: CANAL FEEDER AT LYDGATE BROOK Data Type: Point Name: Canal and River Trust Easting: 394713 Northing: 417585	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/000649 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -



ID	Location	Details	
-	1307m SE	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1307m SE	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1307m SE	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1307m SE	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -



ID	Location	Details	
-	1469m N	Status: Historical Licence No: 2569002234 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "MILL RESERVOIR AT CALDERBROOK, LITTLEBOROUGH" Data Type: Point Name: CALDERBROOK JUTE CO Easting: 394100 Northing: 418100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/1986 Expiry Date: - Issue No: 100 Version Start Date: 12/11/1986 Version End Date: -
-	1469m N	Status: Historical Licence No: 2569002234 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MILL RESERVOIR AT CALDERBROOK, LITTLEBOROUGH Data Type: Point Name: CALDERBROOK JUTE CO Easting: 394100 Northing: 418100	Annual Volume (m ³): 18184 Max Daily Volume (m ³): 36.37 Original Application No: - Original Start Date: 12/11/1986 Expiry Date: - Issue No: 100 Version Start Date: 12/11/1986 Version End Date: -
-	1525m SE	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SHORE LANE BRK AT LITTLEBOROUGH, LANCS" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1525m SE	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH, LANCS Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -



ID	Location	Details	
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -



ID	Location	Details	
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -



ID	Location	Details	
-	1653m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

ID	Location	Details	
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

ID	Location	Details	
-	1730m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1730m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

ID	Location	Details	
-	1730m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

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

6.8 Potable abstractions

Records within 2000m	5
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 62 >](#)

ID	Location	Details	
-	1219m SE	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1219m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -



ID	Location	Details	
-	1219m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -
-	1307m SE	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1307m SE	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -

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

6.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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



6.10 Source Protection Zones (confined aquifer)

Records within 500m

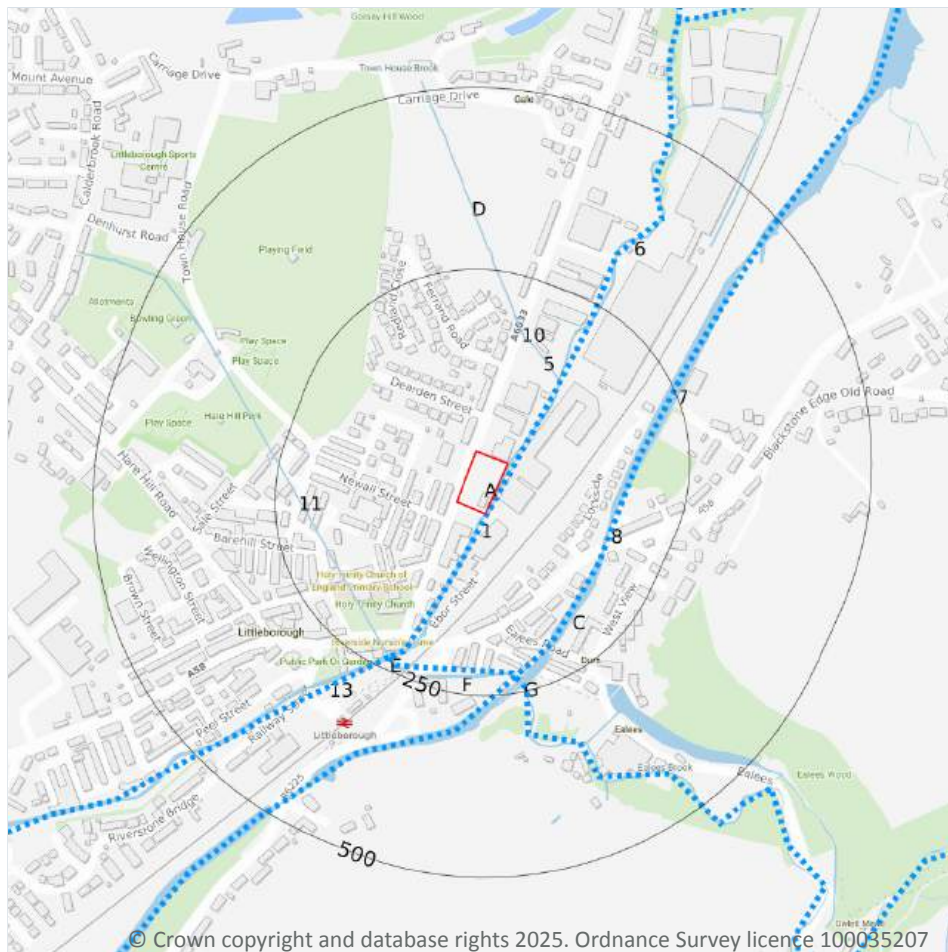
0

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.



7 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

7.1 Water Network (OS MasterMap)

Records within 250m

19

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

Features are displayed on the Hydrology map on [page 84 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch



ID	Location	Type of water feature	Ground level	Permanence	Name
5	135m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Town House Brook
6	136m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
7	159m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
8	161m E	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
C	165m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
10	175m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Town House Brook
11	187m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	188m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Town House Brook
F	221m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ealees Brook
G	222m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ealees Brook
E	232m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
E	232m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ealees Brook
13	235m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch



ID	Location	Type of water feature	Ground level	Permanence	Name
G	237m S	Manmade watercourse for water transfer.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
G	237m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
G	240m S	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
G	241m S	Manmade watercourse for water transfer.	Underground	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
E	242m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Ealees Brook

This data is sourced from the Ordnance Survey.

7.2 Surface water features

Records within 250m	8
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Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 84 >](#)

This data is sourced from the Ordnance Survey.

7.3 WFD Surface water body catchments

Records on site	1
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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 84 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Source to Spodden)	GB112069064720	Roch Irk Medlock	Irwell



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

7.4 WFD Surface water bodies

Records identified	2
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Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 84 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	3m S	River	Roch (Source to Spodden)	GB112069064720 ↗	Moderate	Fail	Moderate	2019
9	165m E	Canal	Rochdale Canal, western section	GB71210517 ↗	Moderate	Fail	Moderate	2019

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

7.5 WFD Groundwater bodies

Records on site	1
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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.

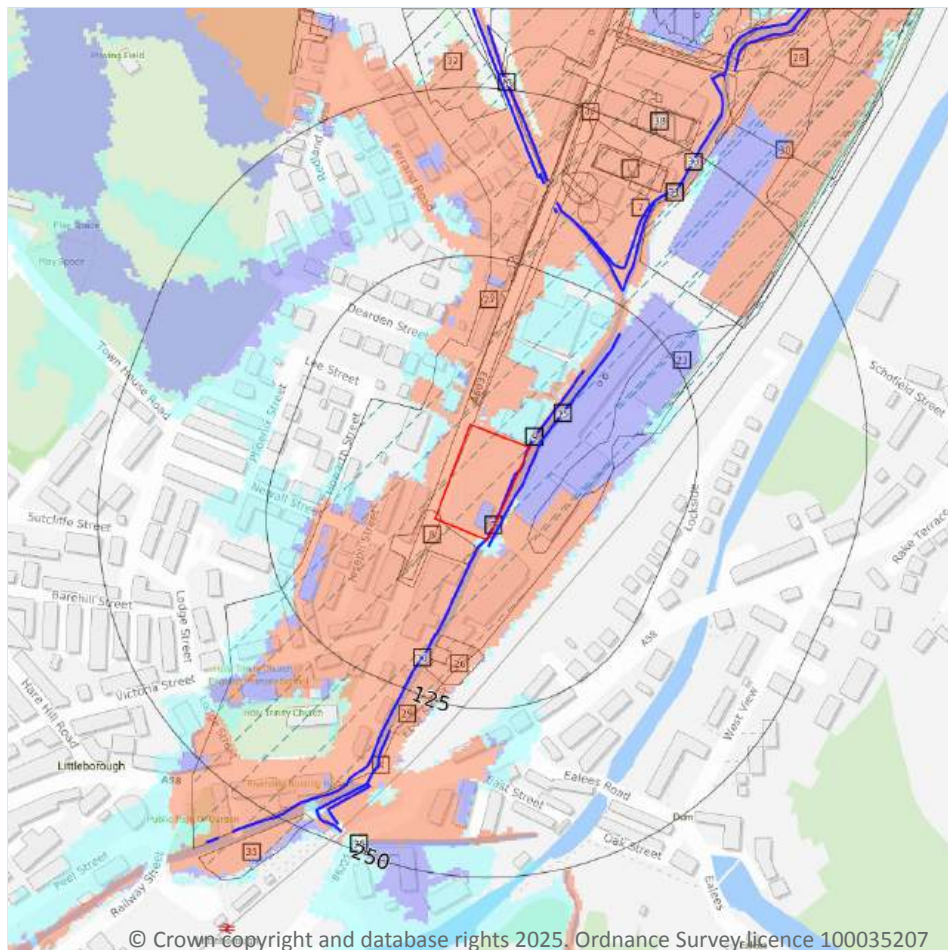
Features are displayed on the Hydrology map on [page 84 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	Poor	Poor	Good	2019

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



8 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

8.1 Risk of flooding from rivers and the sea

Records within 50m

26

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

Features are displayed on the River and coastal flooding map on [page 88](#) >



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

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

8.2 Historical Flood Events

Records within 250m	18
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on [page 88 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
7	On site	Littleborough	2015-12-26 2015-12-26	Main river	Overtopping of defences	Fluvial
8	On site	Roch	2002-06-14 2002-06-15	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	Todmorden Road	2019-03-16 2019-03-16	Unknown	Local drainage/surface water	Fluvial
E	15m N	Towh	2002-02-08 2002-02-09	Main river	Channel capacity exceeded (no raised defences)	Fluvial
23	25m SE	Roch	2002-02-08 2002-02-09	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	68m NE	Ea01327_18 November 2009_River Roch_Gng_Foam	2009-11-18 2009-11-19	Main river	Operational failure/breach of defence	Fluvial
B	75m NE	Ea01327_10 January 2008_River Roch_Gng_Foam	2008-01-10 2008-01-11	Main river	Operational failure/breach of defence	Fluvial
26	78m S	Ebor Street	2019-03-16 2019-03-16	Main river	Channel capacity exceeded (no raised defences)	Fluvial
27	92m N	Ea01327_21 January 2008_River Roch_Littleborough	2008-01-21 2008-01-22	Main river	Unknown	Fluvial
28	110m N	Ea01327_06_July_2012_Roch_Gree nvale_Business_Park	2012-07-06 2012-07-06	Main river	Overtopping of defences	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
29	140m S	Ea01327_17 July 2003_River Roch_Eborstreetmotors	2003-07-17 2003-07-17	Main river	Operational failure/breach of defence	Fluvial
30	160m NE	Greenvale Business Park	2019-03-16 2019-03-16	Unknown	Unknown	Fluvial
K	182m S	Roch	1991-12-21 1991-12-22	Unknown	Channel capacity exceeded (no raised defences)	No data
L	211m N	Roch	1998-03-06 1998-03-07	Unknown	Obstruction/blockage - channel	No data
L	211m NE	Roch	1998-10-23 1998-10-24	Unknown	Obstruction/blockage - channel	No data
32	225m N	Towh	1998-10-23 1998-10-24	Main river	Channel capacity exceeded (no raised defences)	Fluvial
35	239m SW	Littleborough	2015-12-26 2015-12-26	Main river	Overtopping of defences	Fluvial
37	247m N	Roch	1980-10-23 1980-10-24	Unknown	Obstruction/blockage - channel	No data

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

8.3 Flood Defences

Records within 250m

27

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

Features are displayed on the River and coastal flooding map on [page 88 >](#)

ID	Location	Update
9	On site	08/11/2022
D	On site	08/11/2022
11	2m S	08/11/2022
D	3m S	08/11/2022
15	5m SE	08/11/2022
B	66m NE	08/11/2022
A	135m NE	08/11/2022



ID	Location	Update
A	135m NE	08/11/2022
A	149m NE	08/11/2022
K	158m S	08/11/2022
C	162m NE	08/11/2022
C	170m N	08/11/2022
E	187m N	08/11/2022
E	189m N	08/11/2022
E	190m N	08/11/2022
E	190m N	08/11/2022
F	194m S	08/11/2022
F	195m SW	08/11/2022
F	201m S	08/11/2022
31	205m NE	08/11/2022
F	216m SW	08/11/2022
M	218m N	08/11/2022
F	233m SW	08/11/2022
33	234m NE	08/11/2022
H	234m SW	08/11/2022
M	240m N	08/11/2022
36	243m S	08/11/2022

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

8.4 Areas Benefiting from Flood Defences

Records within 250m

1

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

Features are displayed on the River and coastal flooding map on [page 88](#) >



ID	Location	
38	249m NE	Area benefiting from flood defences

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

8.5 Flood Storage Areas

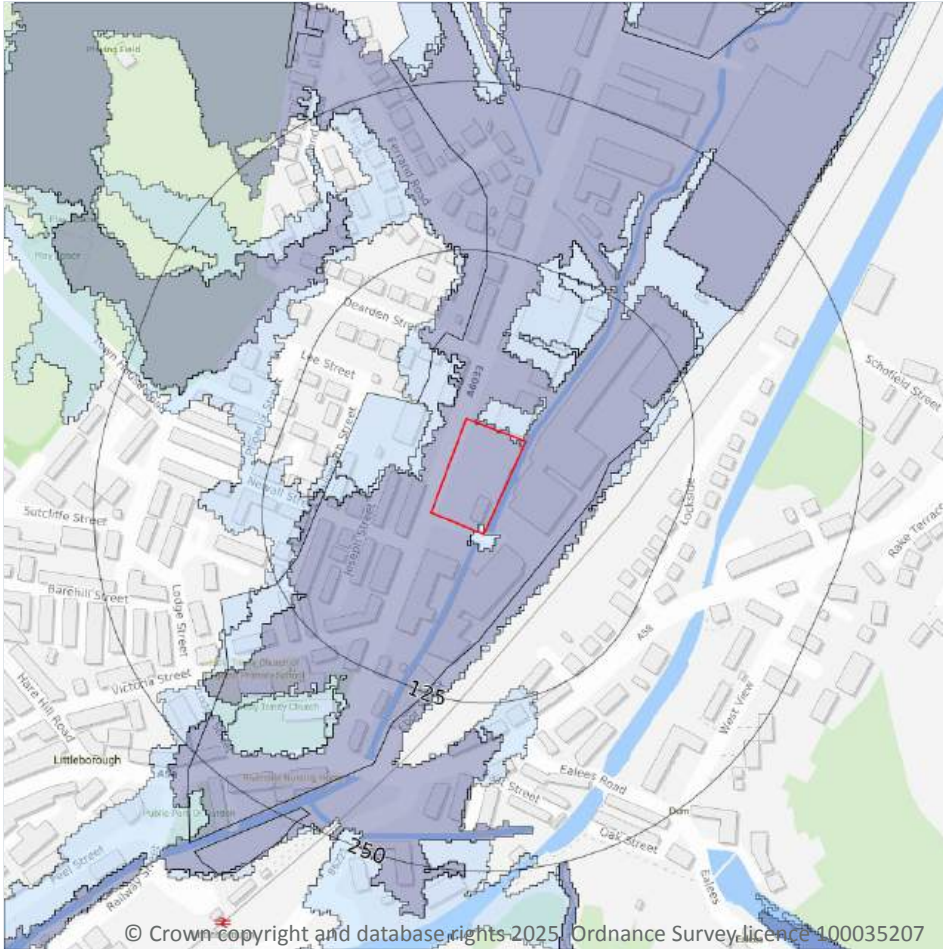
Records within 250m	0
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Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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



River and coastal flooding - Flood Zones



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

8.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 88](#) >

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

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



8.7 Flood Zone 3

Records within 50m

1

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

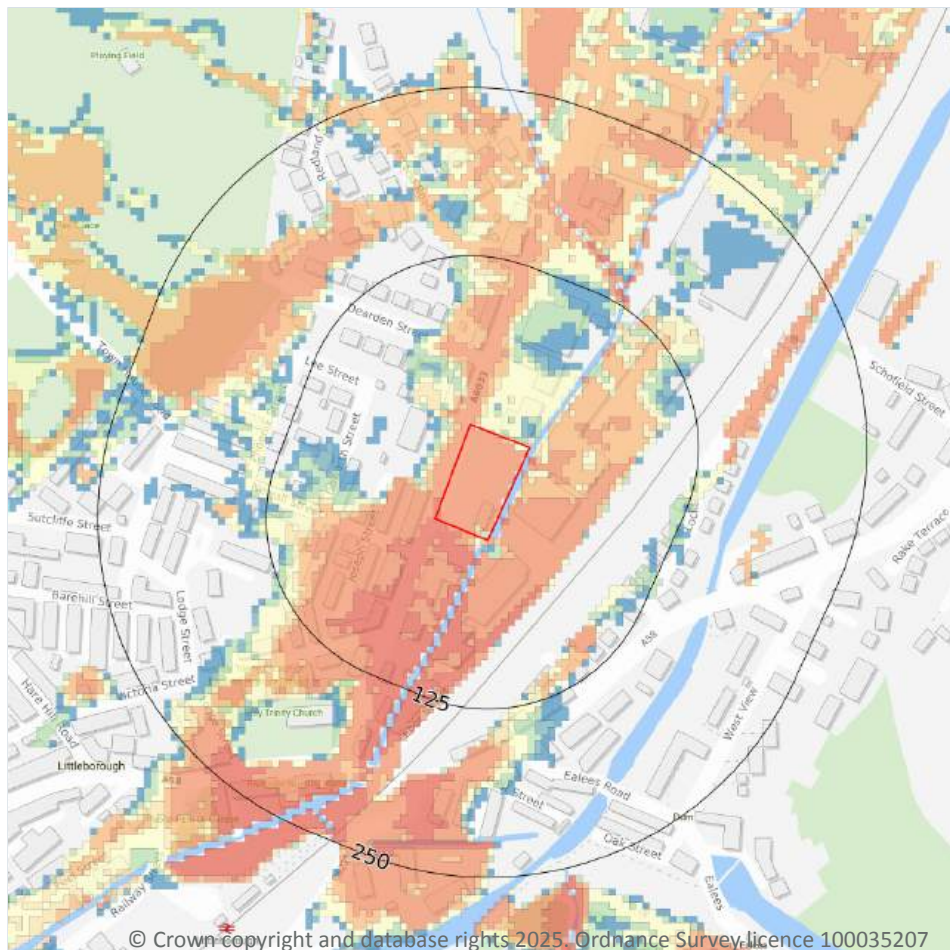
Features are displayed on the River and coastal flooding map on [page 88](#) >

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

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



9 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

9.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 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 95 >](#)

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

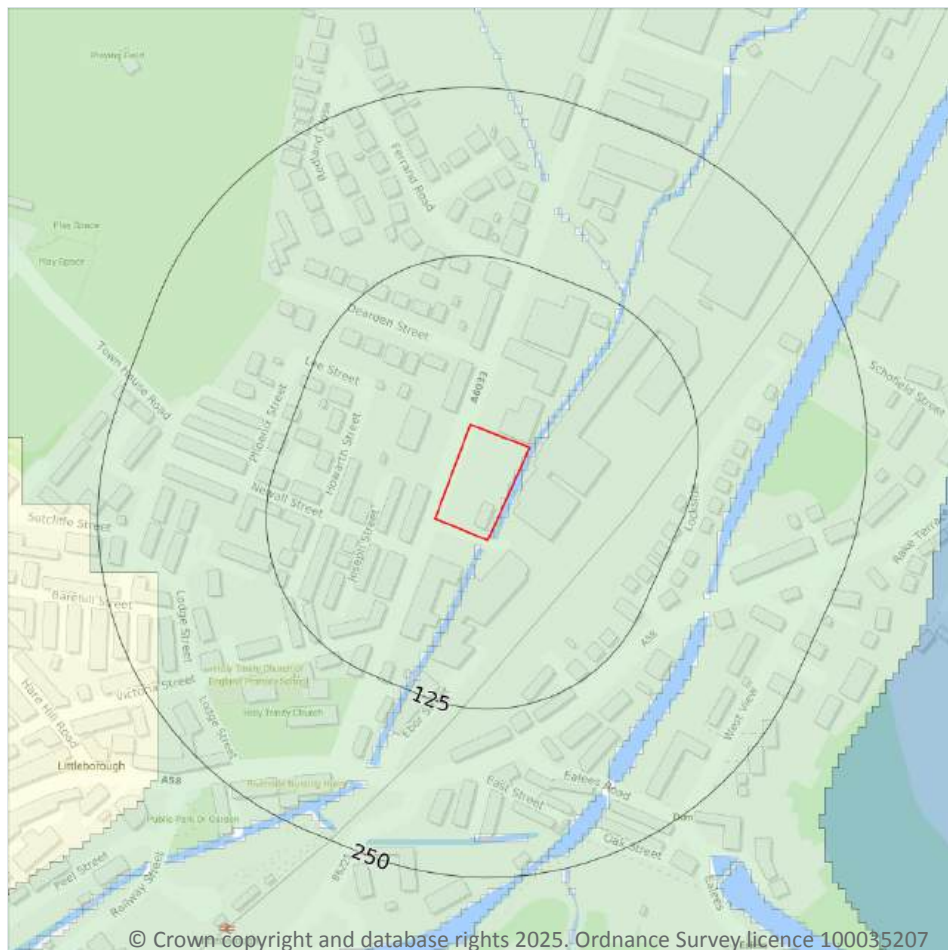
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiantal Risk Analytics.



10 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

10.1 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 97](#) >

This data is sourced from Ambiantal Risk Analytics.

11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Designated Ancient Woodland
- Green Belt

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

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

Features are displayed on the Environmental designations map on [page 98](#) >

ID	Location	Name	Data source
A	485m SW	Rochdale Canal SSSI	Natural England



ID	Location	Name	Data source
-	1487m E	South Pennine Moors SSSI	Natural England
-	1925m SW	Rochdale Canal SSSI	Natural England

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

11.2 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.

11.3 Special Areas of Conservation (SAC)

Records within 2000m

3

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 98 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
A	485m SW	Rochdale Canal	Floating water-plantain	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
-	1487m E	South Pennine Moors	Wet heathland with cross-leaved heath; Dry heaths; Blanket bog; Very wet mires often identified by an unstable 'quaking' surface; Western acidic oak woodland	Inland water bodies (Standing water, Running water); Humid grassland, Mesophile grassland; Mixed woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Dry grassland, Steppes	Natural England



ID	Location	Name	Features of interest	Habitat description	Data source
-	1925m SW	Rochdale Canal	Floating water-plantain	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

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

11.4 Special Protection Areas (SPA)

Records within 2000m	2
-----------------------------	----------

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

Features are displayed on the Environmental designations map on [page 98 >](#)

ID	Location	Name	Species of interest	Habitat description	Data source
-	1487m E	South Pennine Moors Phase 2	Merlin; European golden plover; Short-eared owl	Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
-	1583m SE	South Pennine Moors Phase 2	Merlin; European golden plover; Short-eared owl	Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

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

11.5 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.

11.6 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.

11.7 Designated Ancient Woodland

Records within 2000m**4**

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

Features are displayed on the Environmental designations map on [page 98 >](#)

ID	Location	Name	Woodland Type
2	469m SE	Ealees Wood	Ancient & Semi-Natural Woodland
3	565m N	Unknown	Ancient & Semi-Natural Woodland
4	614m N	Unknown	Ancient & Semi-Natural Woodland
5	686m SE	Ealees Wood	Ancient & Semi-Natural Woodland

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

11.8 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.

11.9 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.

11.10 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.

11.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 98](#) >

ID	Location	Name	Local Authority name
1	220m S	Merseyside and Greater Manchester Green Belt	Rochdale

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

11.12 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.

11.13 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.

11.14 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.

11.15 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.

11.16 Nitrate Vulnerable Zones

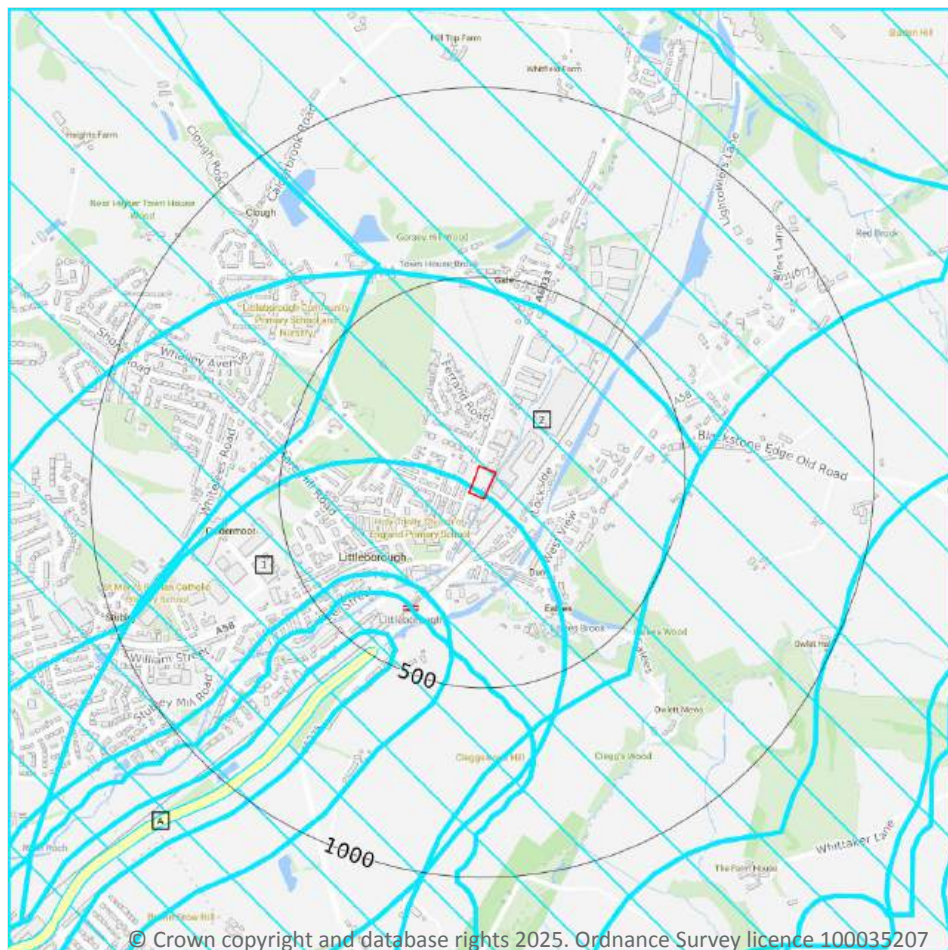
Records within 2000m**0**

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

11.17 SSSI Impact Risk Zones

Records on site

2

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 104](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .
2	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. 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 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .

This data is sourced from Natural England.



11.18 SSSI Units

Records within 2000m

3

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 104 >](#)

ID: A
 Location: 485m SW
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: -
 Location: 1487m E
 SSSI name: South Pennine Moors
 Unit name: Clegg Moor
 Broad habitat: Bogs - Upland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Golden plover, Pluvialis apricaria	-	-
Aggregations of breeding birds - Twite, Carduelis flavirostris	-	-
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	25/03/2022
Assemblages of breeding birds - Upland moorland and grassland without water bodies	-	-
H4010 Northern Atlantic wet heaths with Erica tetralix	Unfavourable - Recovering	31/01/2014
H4030 European dry heaths	Unfavourable - Recovering	31/01/2014
H7130 Blanket bog	Unfavourable - Recovering	31/01/2014
Wet heath (upland)	-	-



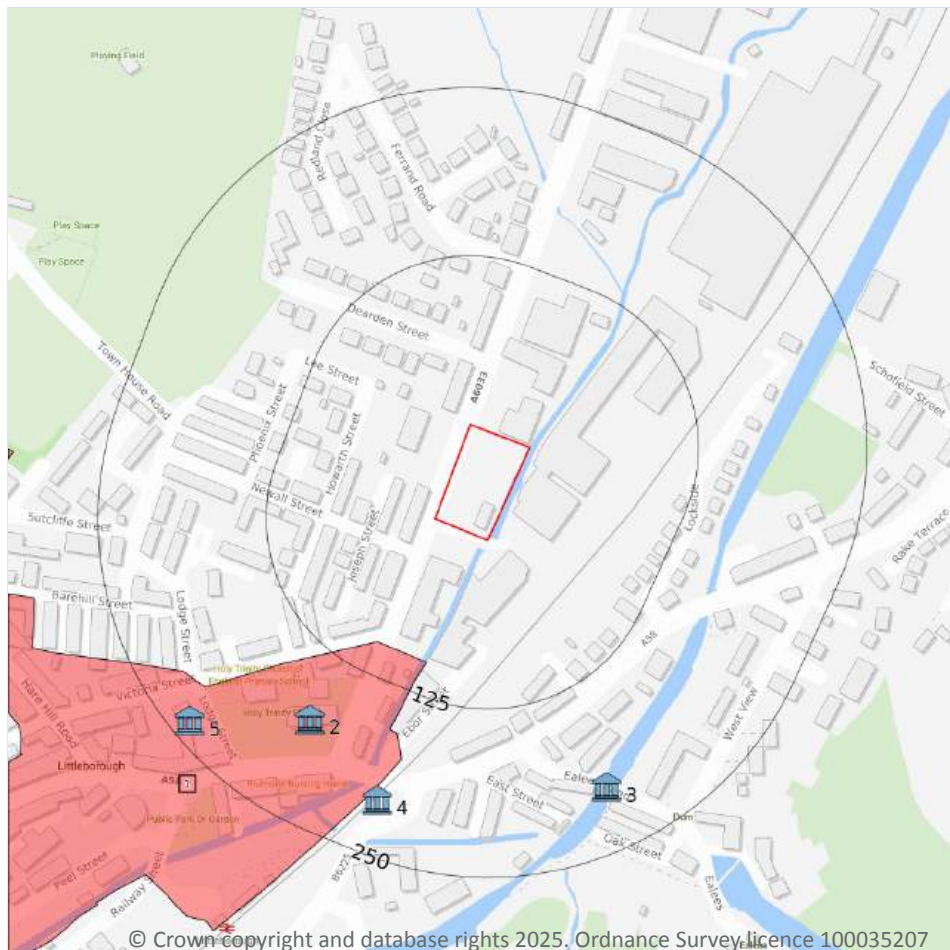
ID: -
Location: 1925m SW
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

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



12 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

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m**4**

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 108 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
2	175m SW	Church Of The Holy Trinity	II	1068518	02/01/1967
3	203m S	Ealees Bridge	II	1309668	23/04/1986
4	209m S	Railway Viaduct	II	1068509	23/04/1986
5	235m SW	Littleborough Coach House Heritage Centre	II	1162288	23/04/1986

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



12.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 108](#) >

ID	Location	Name	District	Date of designation
1	101m SW	Littleborough Town Centre	Rochdale	23/11/1977

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

12.6 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.

12.7 Registered Parks and Gardens

Records within 250m

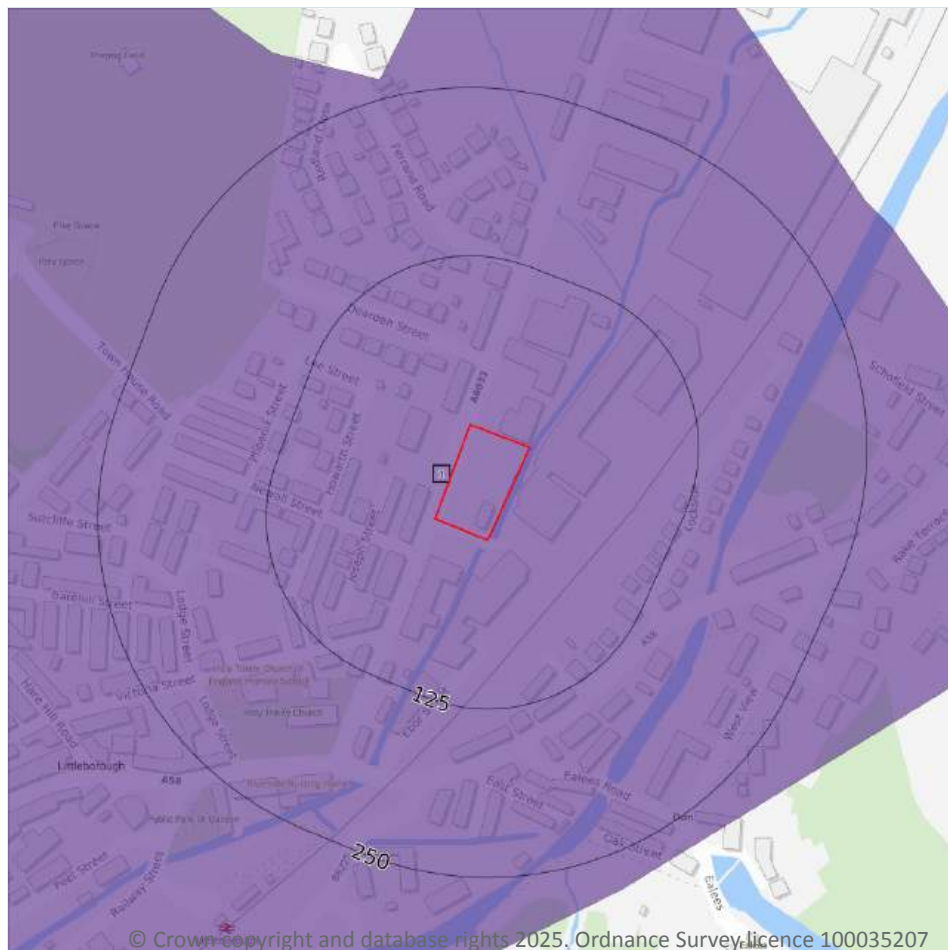
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process,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

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



13 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

13.1 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 111](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.



13.2 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.

13.3 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.

13.4 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.

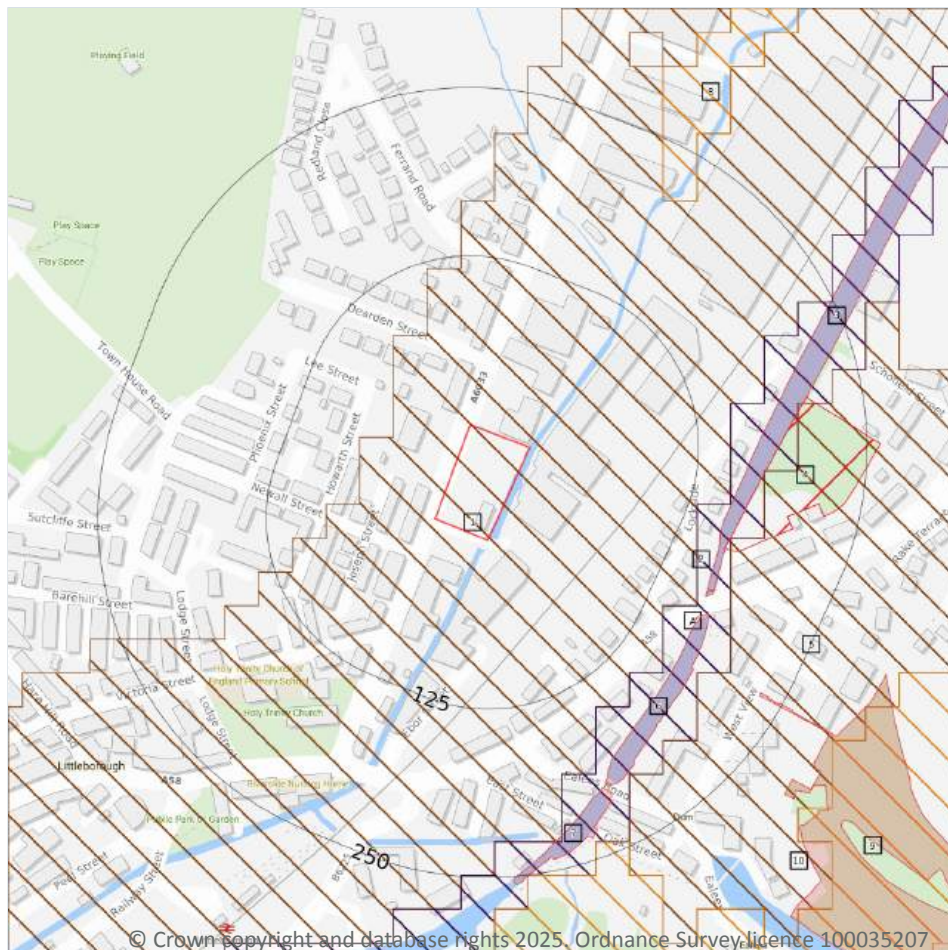
13.5 Countryside Stewardship Schemes

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.

14 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

14.1 Priority Habitat Inventory

Records within 250m

6

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

Features are displayed on the Habitat designations map on [page 113](#) >

ID	Location	Main Habitat	Other habitats
3	154m E	Lowland fens	Main habitat: LFENS (INV > 50%)
A	161m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
A	164m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
6	165m SE	Lowland fens	Main habitat: LFENS (INV > 50%)



ID	Location	Main Habitat	Other habitats
7	202m S	Lowland fens	Main habitat: LFENS (INV > 50%)
9	232m SE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)

This data is sourced from Natural England.

14.2 Habitat Networks

Records within 250m

5

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

Features are displayed on the Habitat designations map on [page 113](#) >

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 2	Not specified
2	131m E	Primary Habitat	Lowland fens
5	164m E	Network Enhancement Zone 2	Not specified
8	208m NE	Network Enhancement Zone 1	Not specified
10	237m S	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

14.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 113](#) >

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
4	163m E	NLUD Ref: 422500031	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.



14.4 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.



Data providers

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GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised N/A
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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

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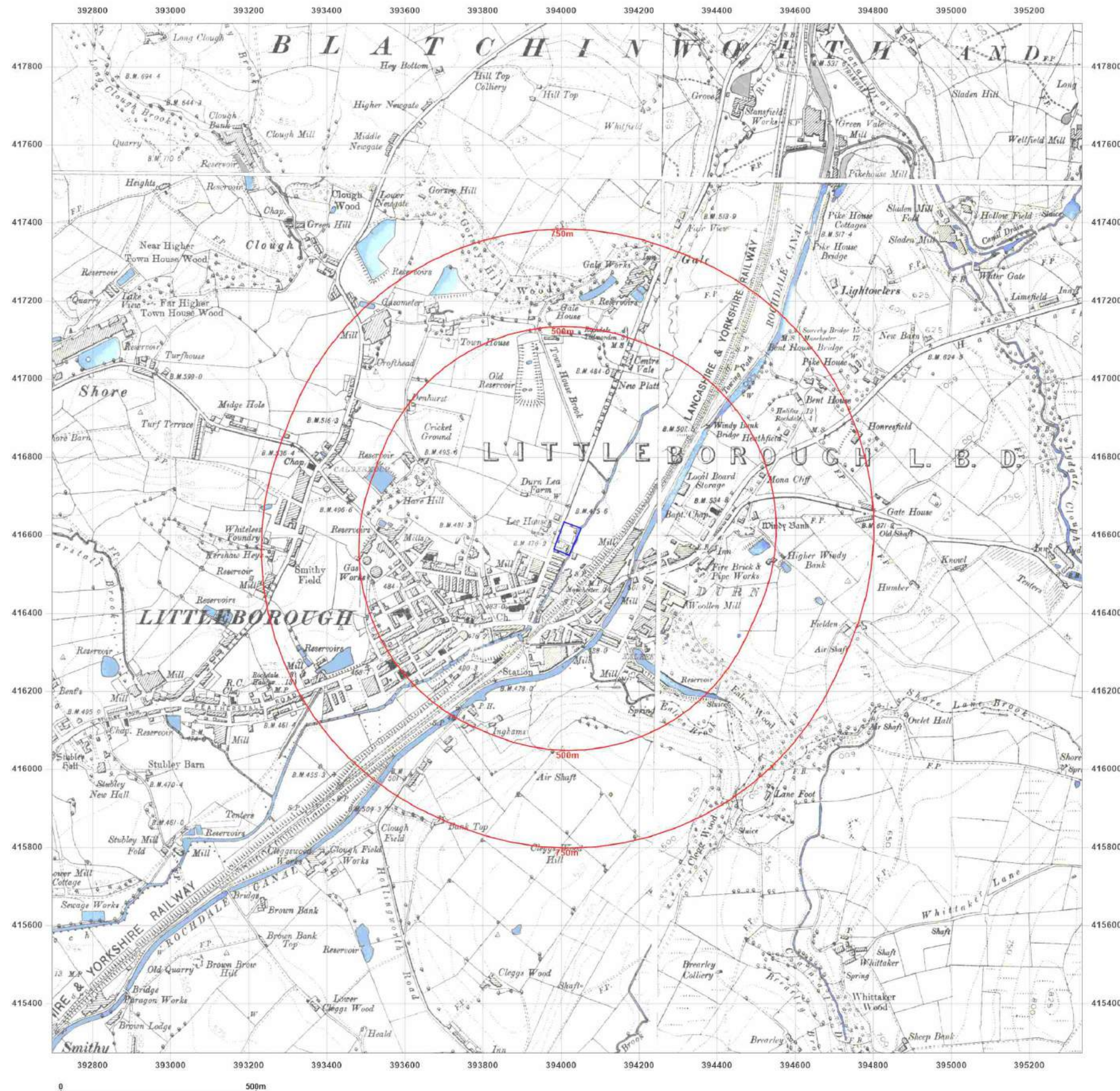


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Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1890-1892

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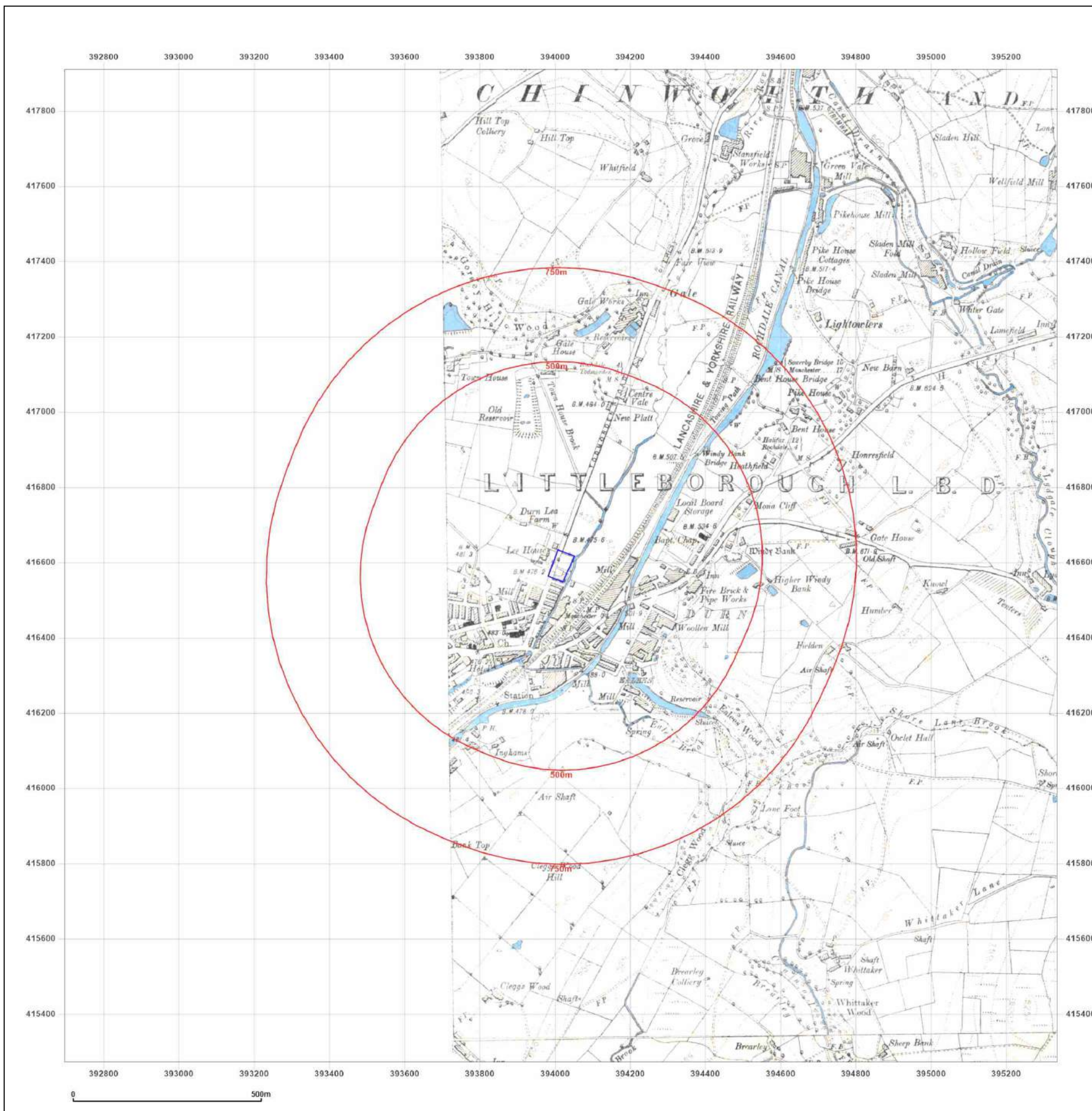


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Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1908-1911

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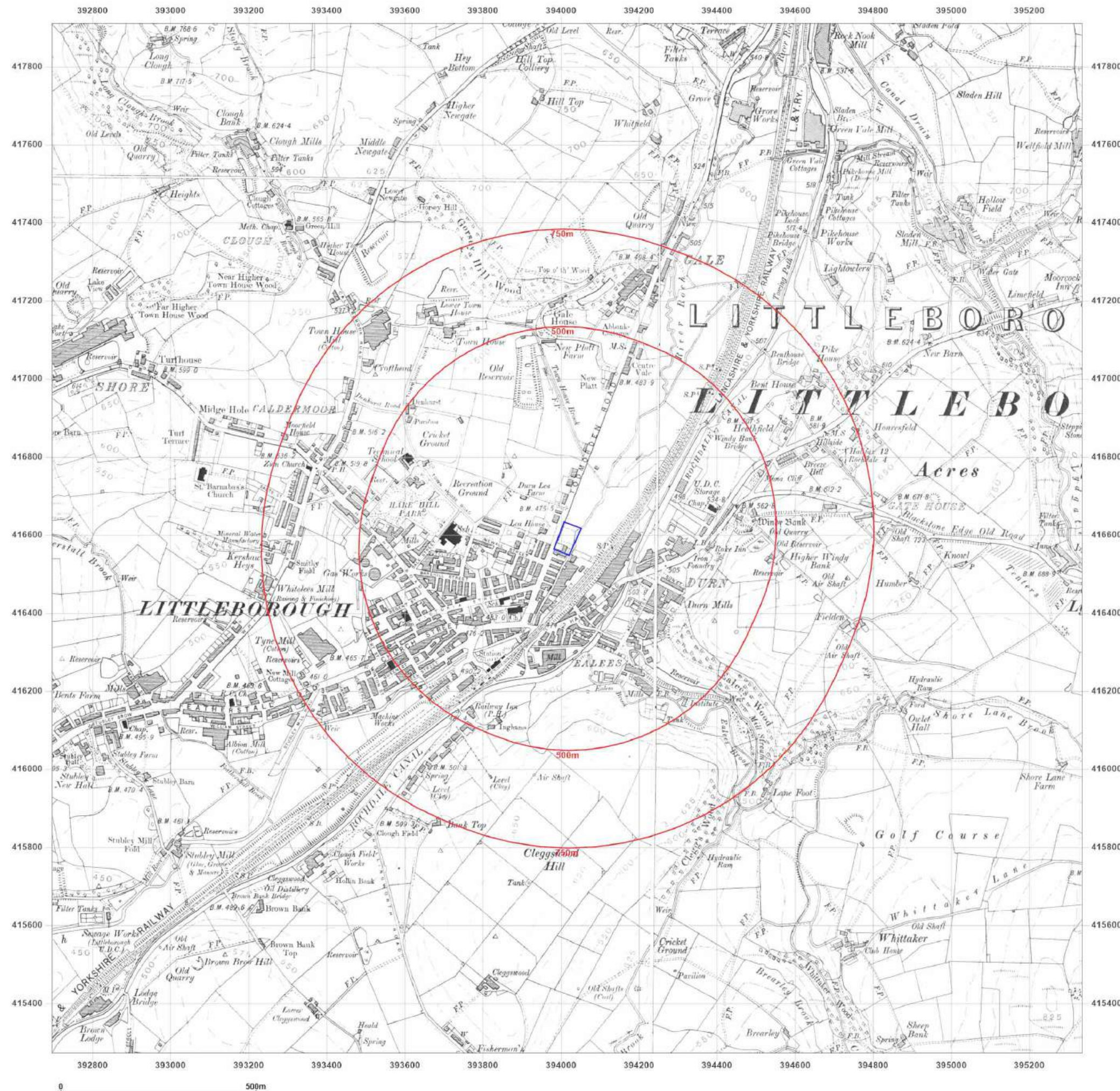


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Client Ref:

GNGFoamConverters

Report Ref:

GS-QCE-Y2W-SOM-9Q9

Grid Ref:

394015, 416591

Map Name:

County Series

Map date:

1910-1911

Scale:

1:10,560

Printed at:

1:10,560

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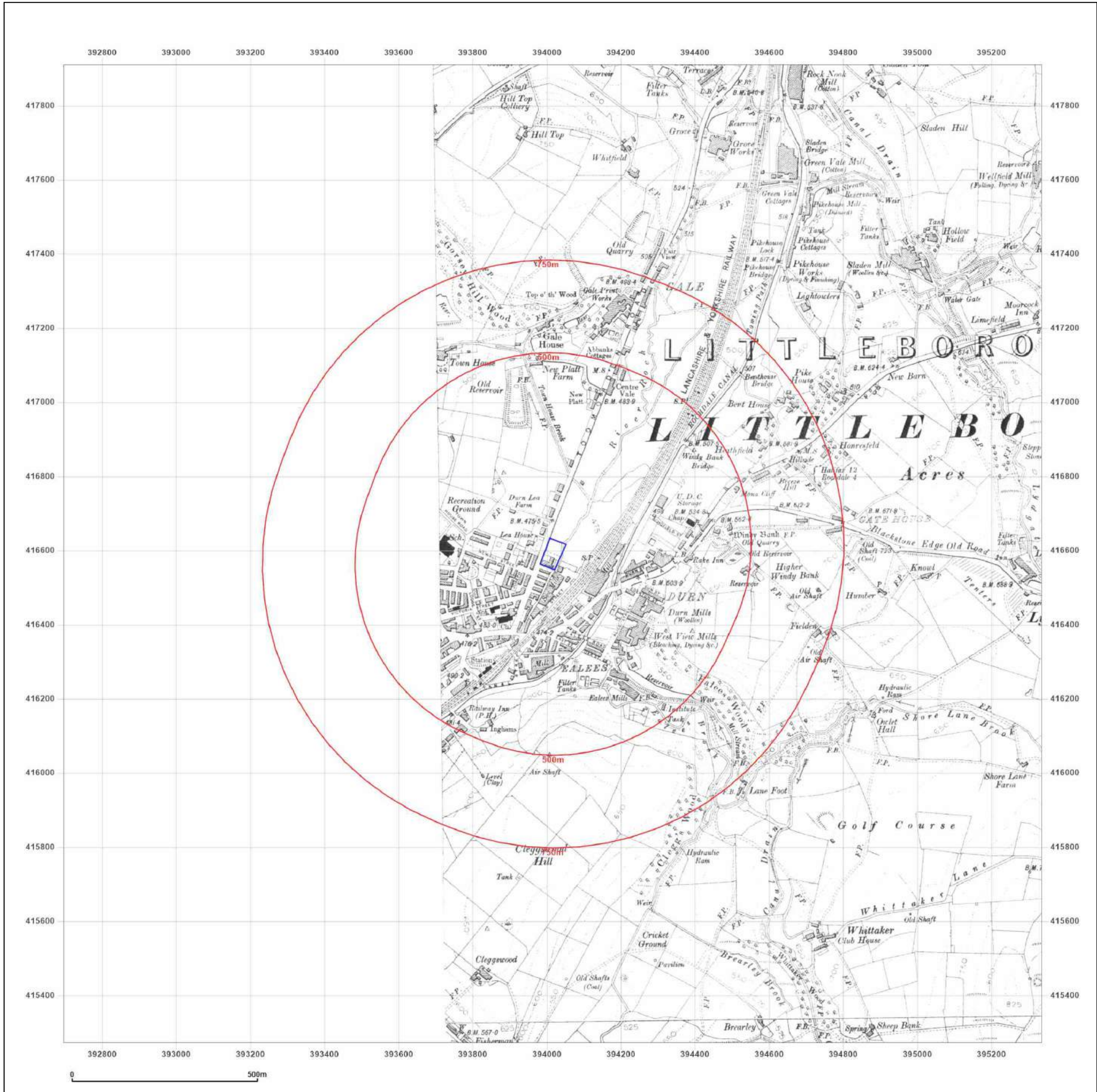
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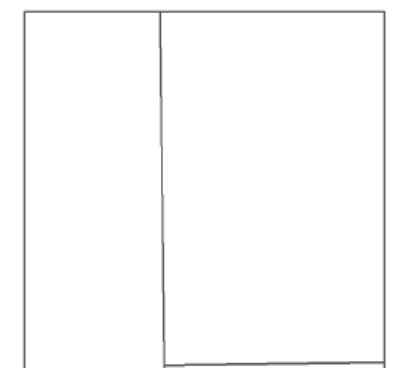
Client Ref: NGNFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1910-1911

Scale: 1:10,560

Printed at: 1:10,560



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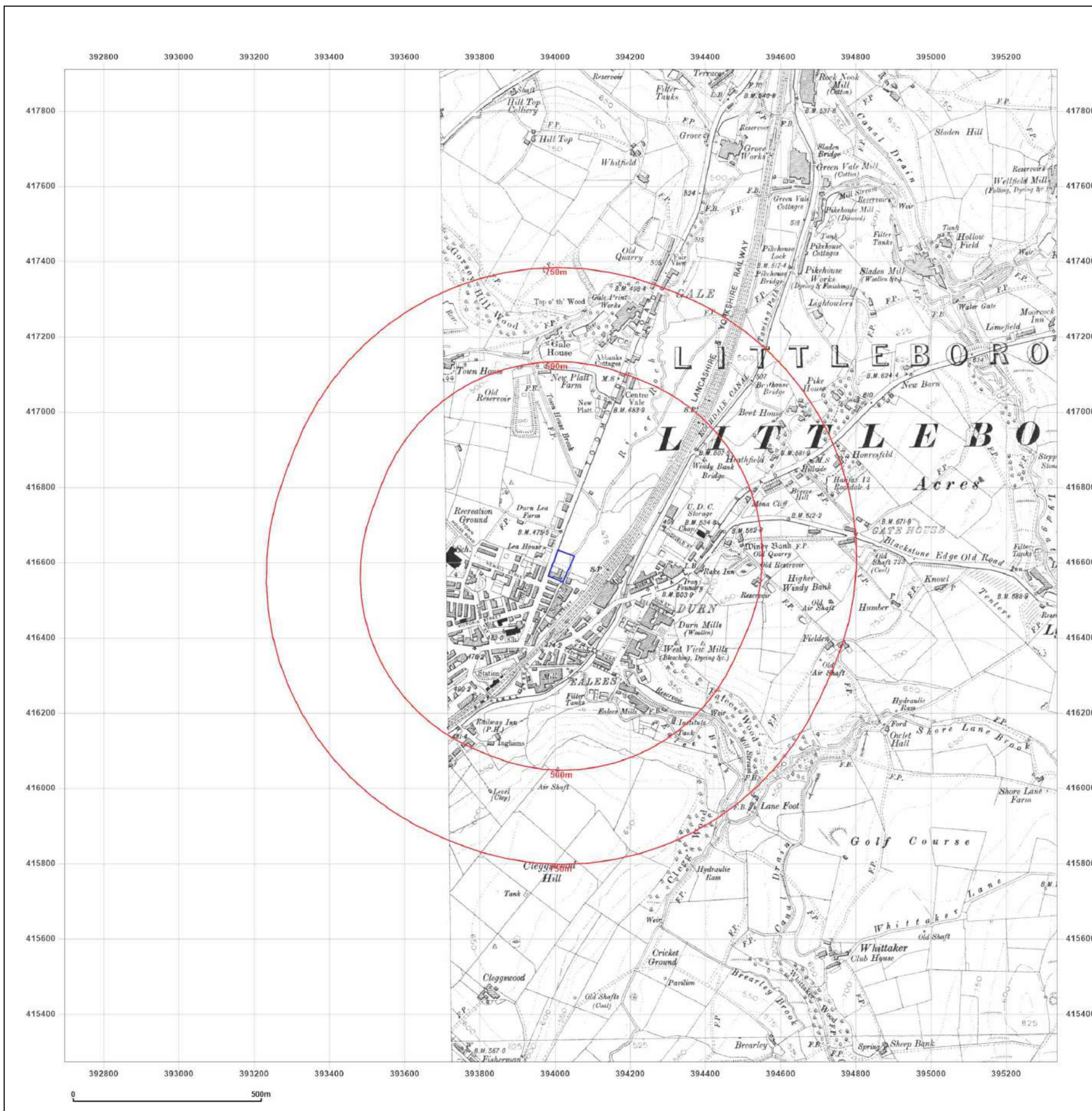


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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1928-1931

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1928
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Surveyed 1847
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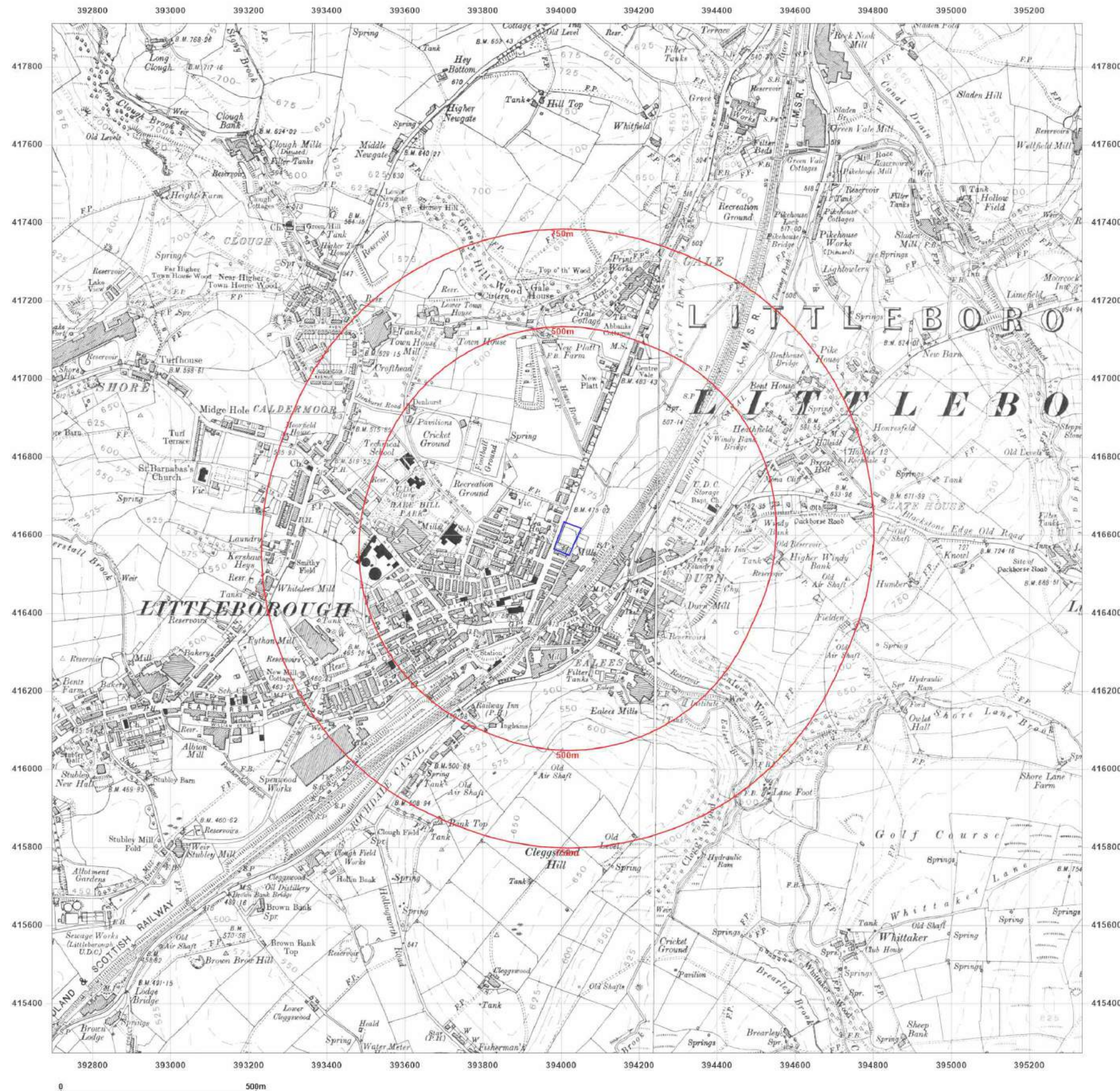


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1938

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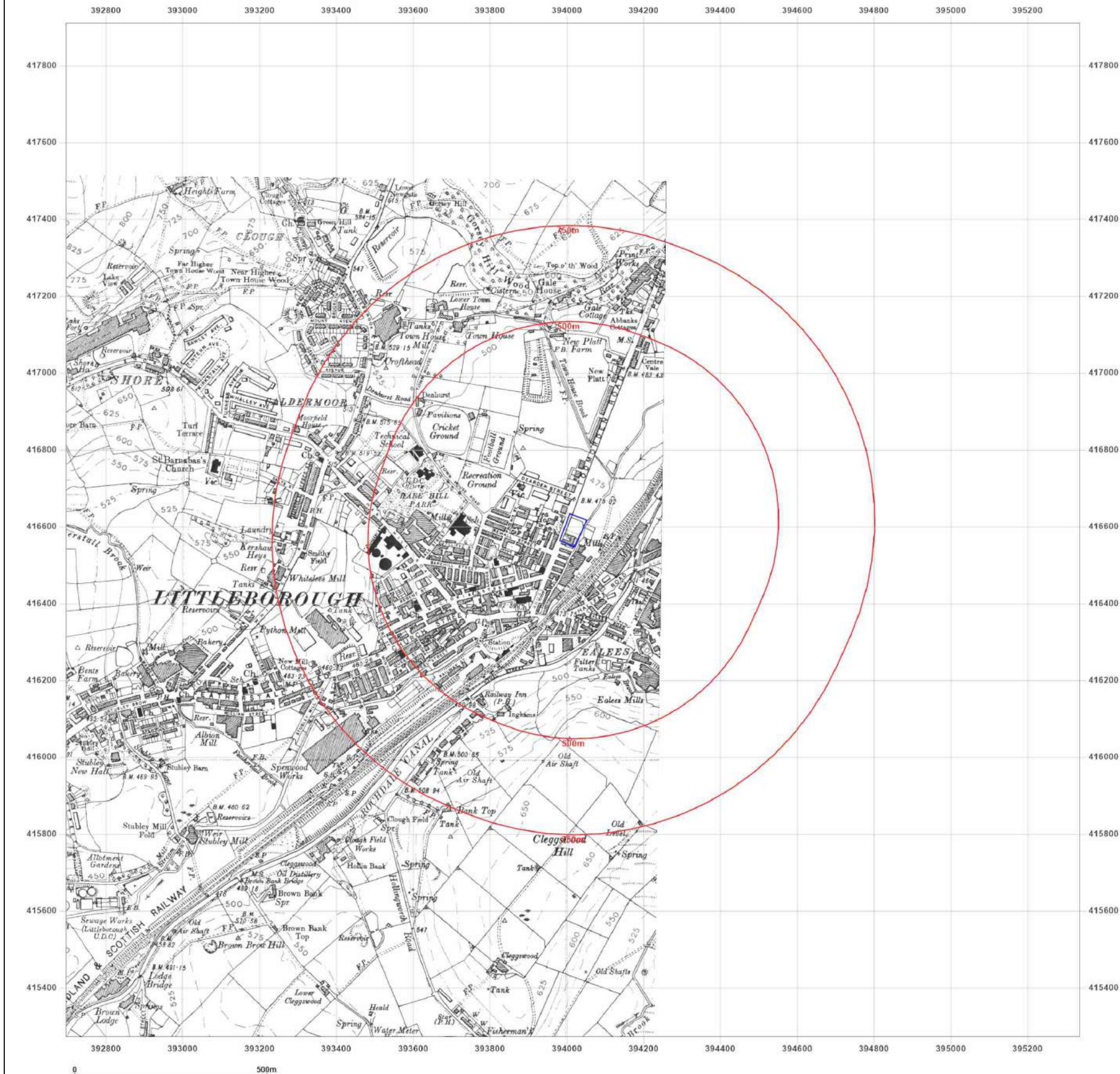


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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: Provisional

Map date: 1949

Scale: 1:10,560

Printed at: 1:10,560



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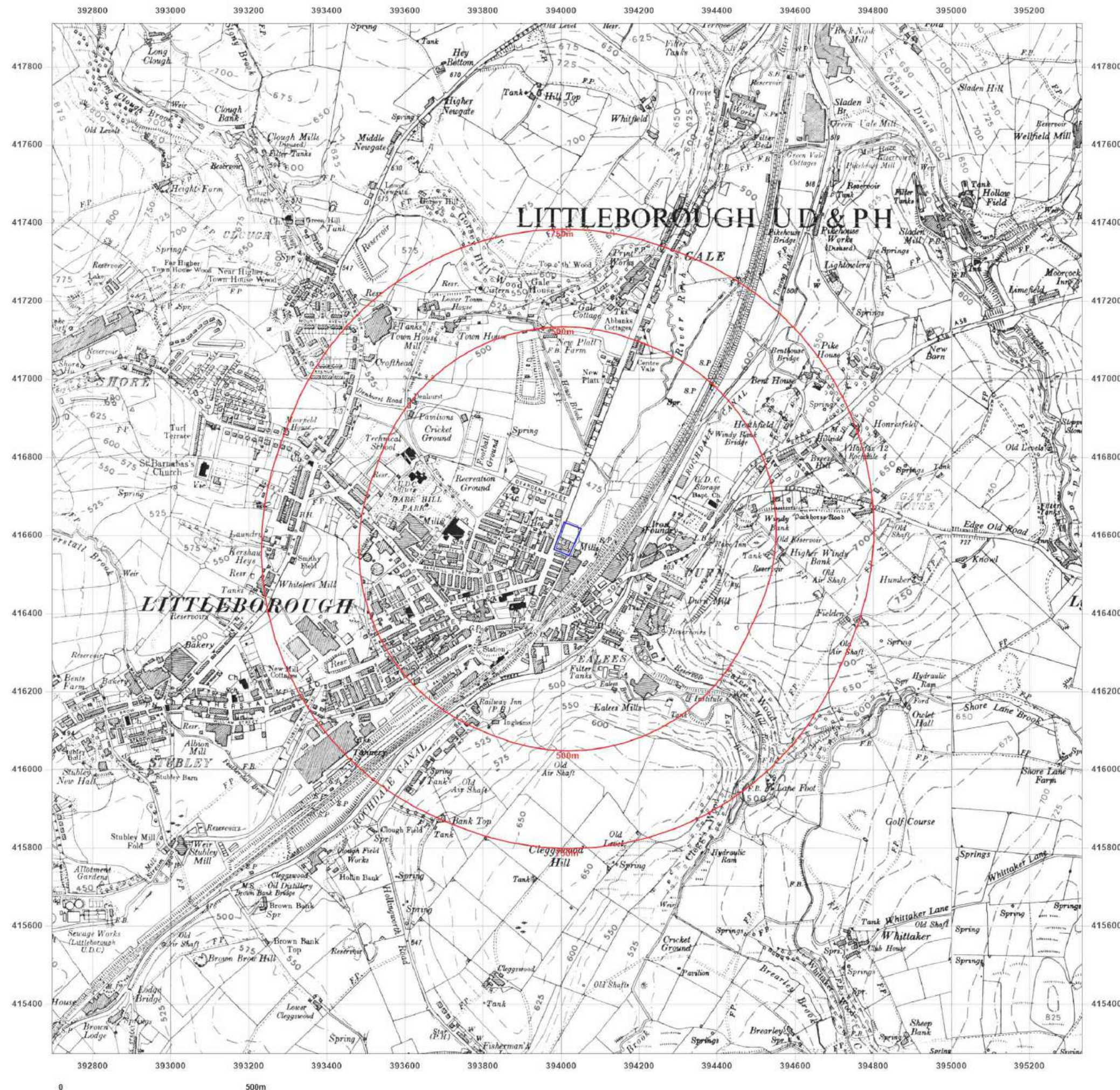


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1976-1979

Scale: 1:10,000

Printed at: 1:10,000



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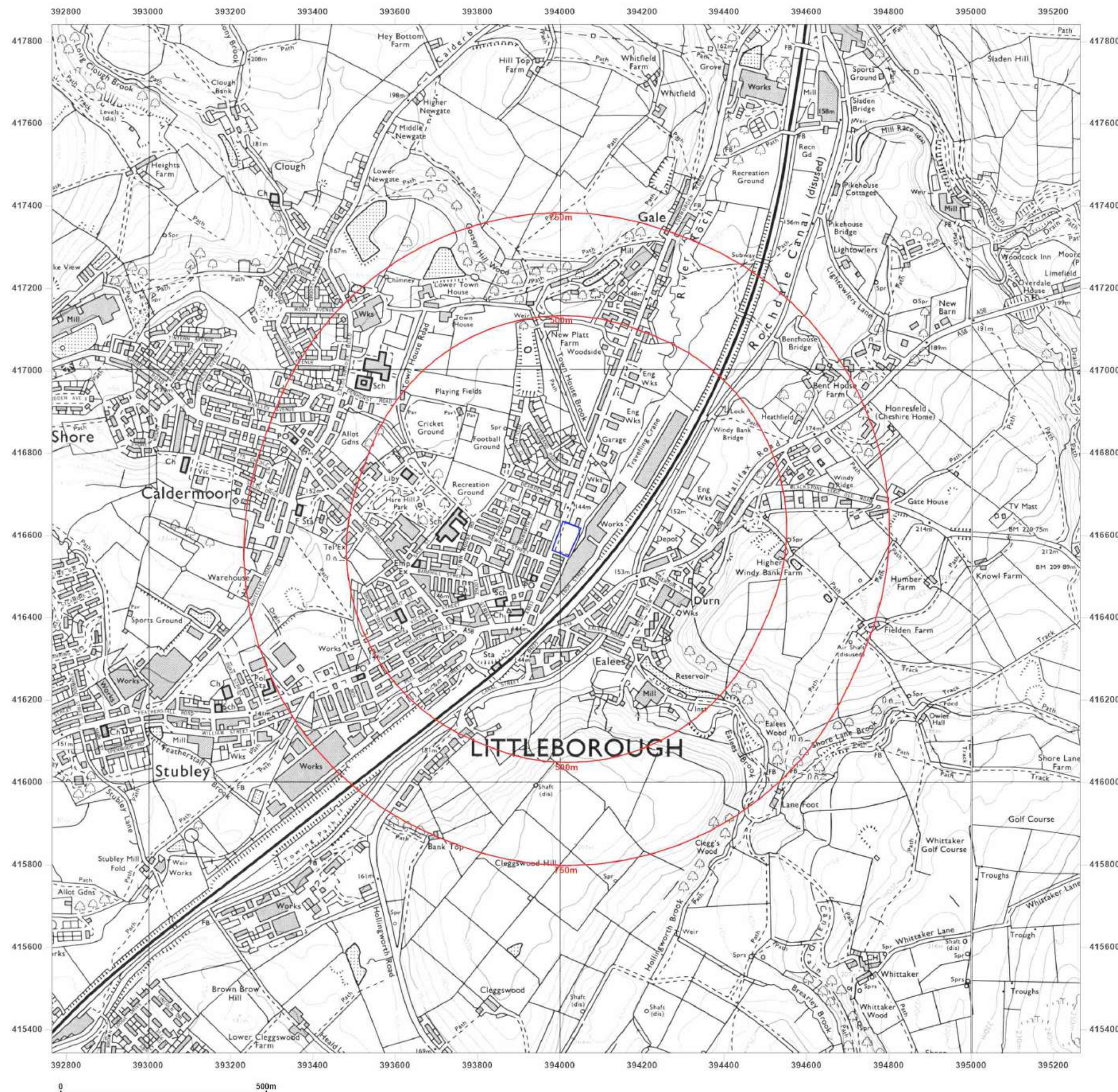


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

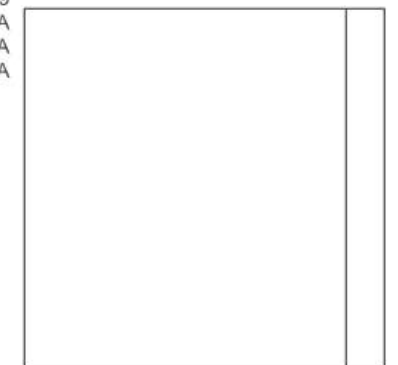
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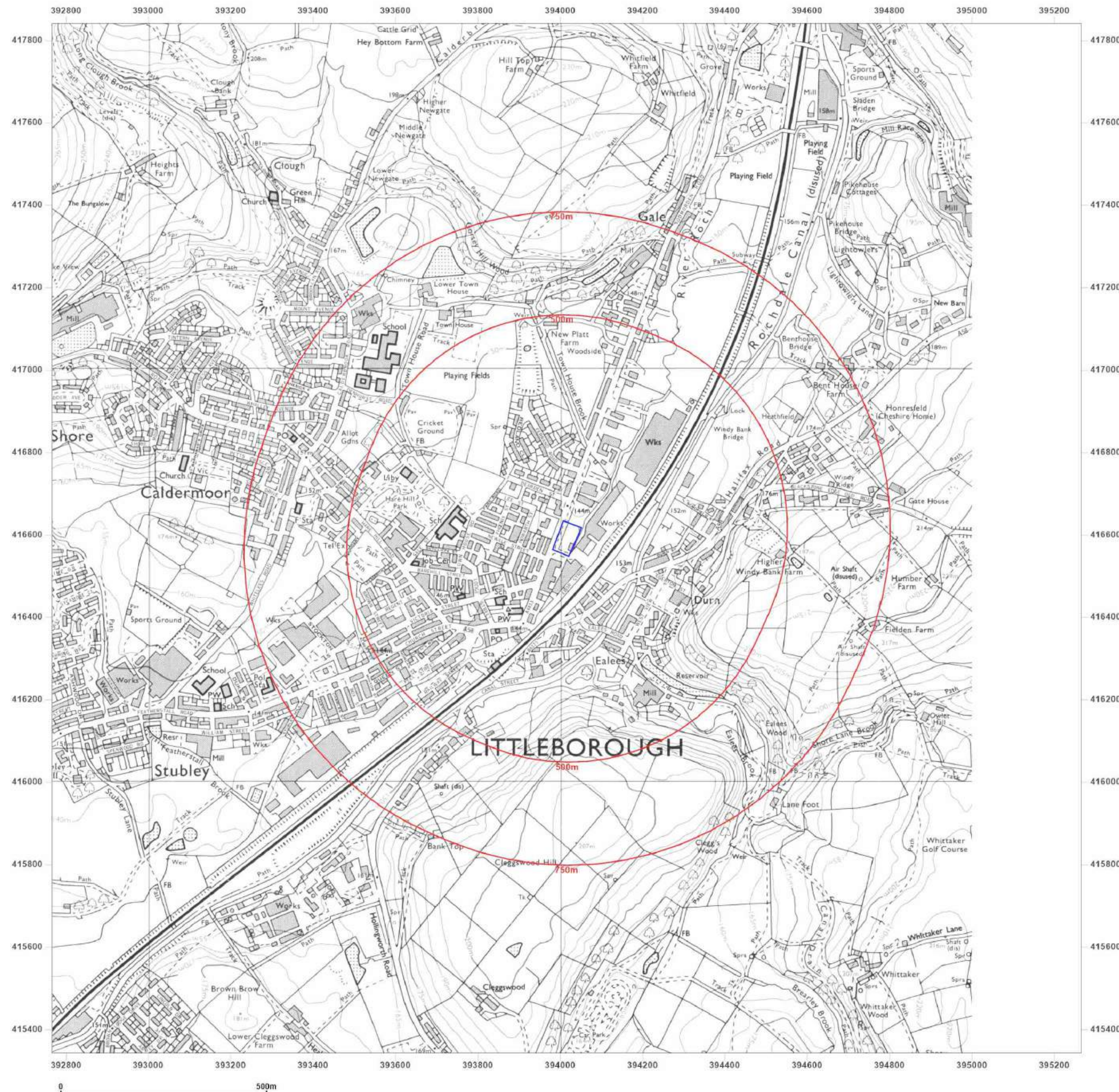


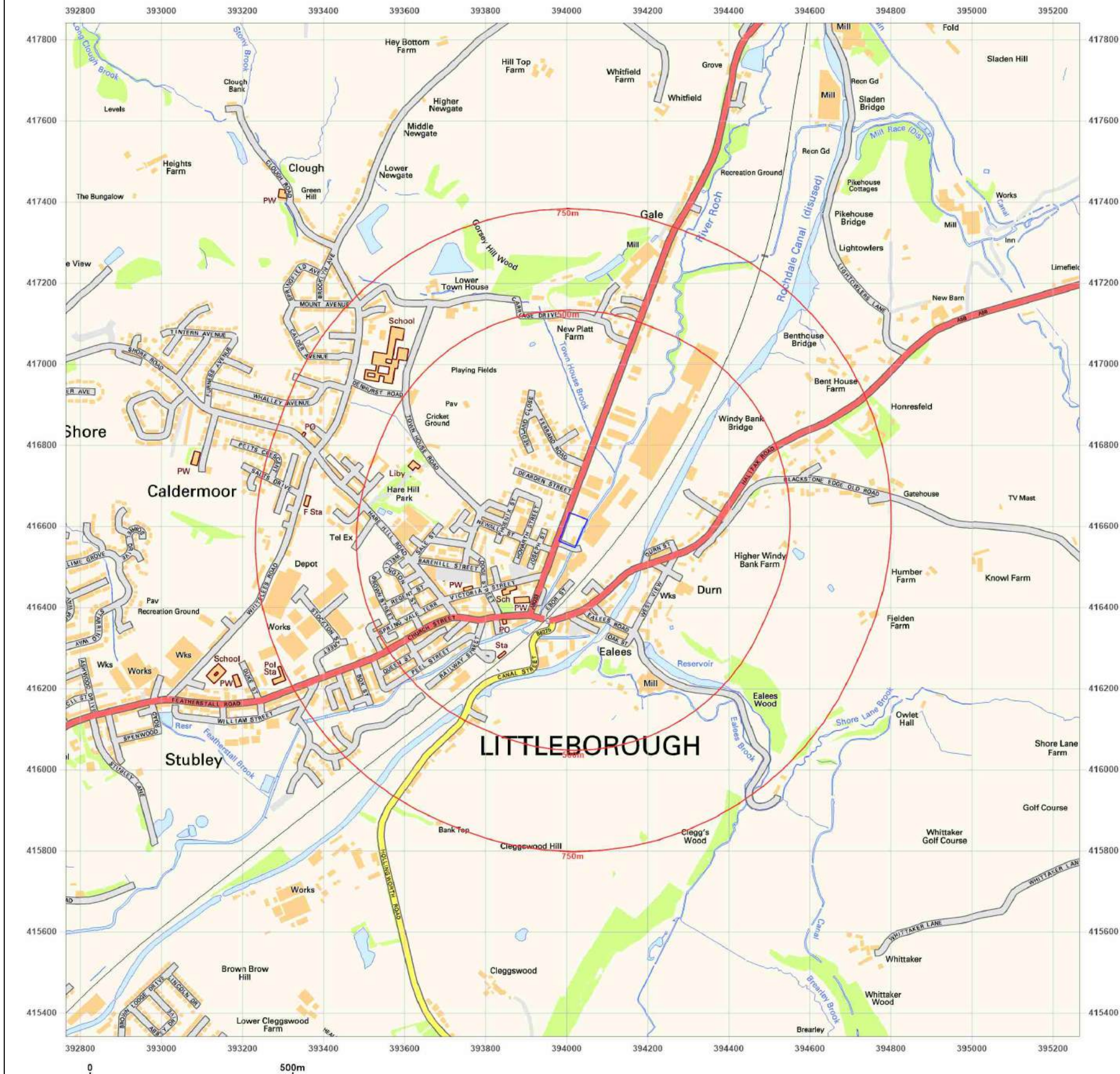
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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name:	National Grid
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Map date: 2001

Scale: 1:10,000

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2001



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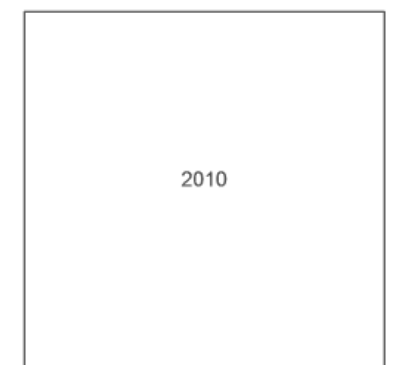
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Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 2010

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Printed at: 1:10,000

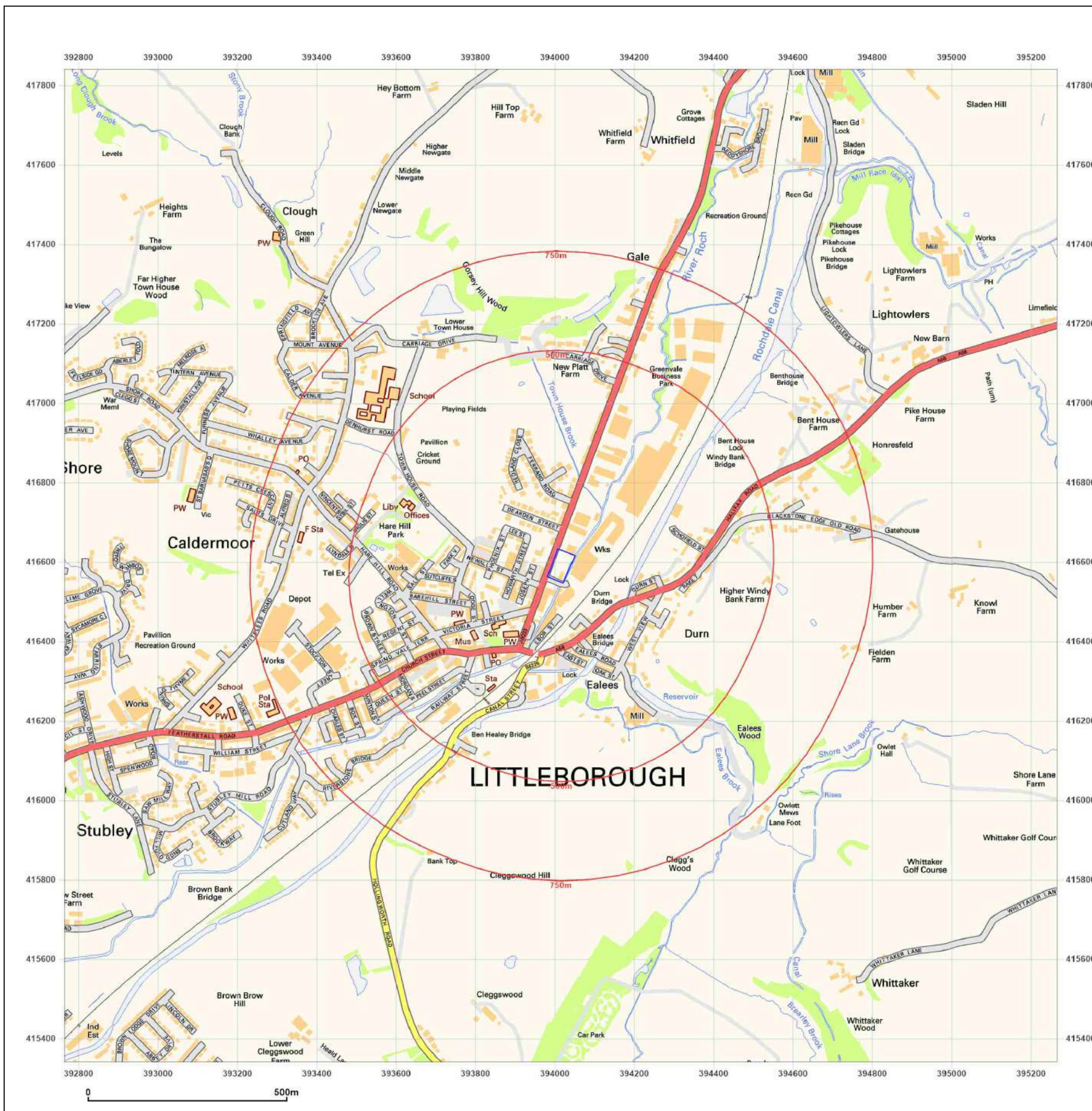


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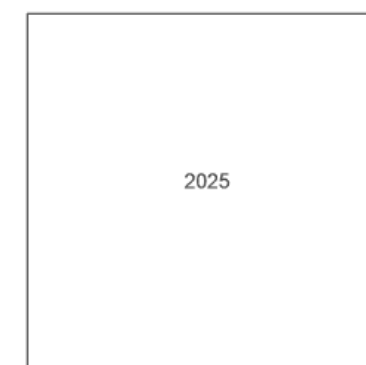
Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

Printed at: 1:10,000

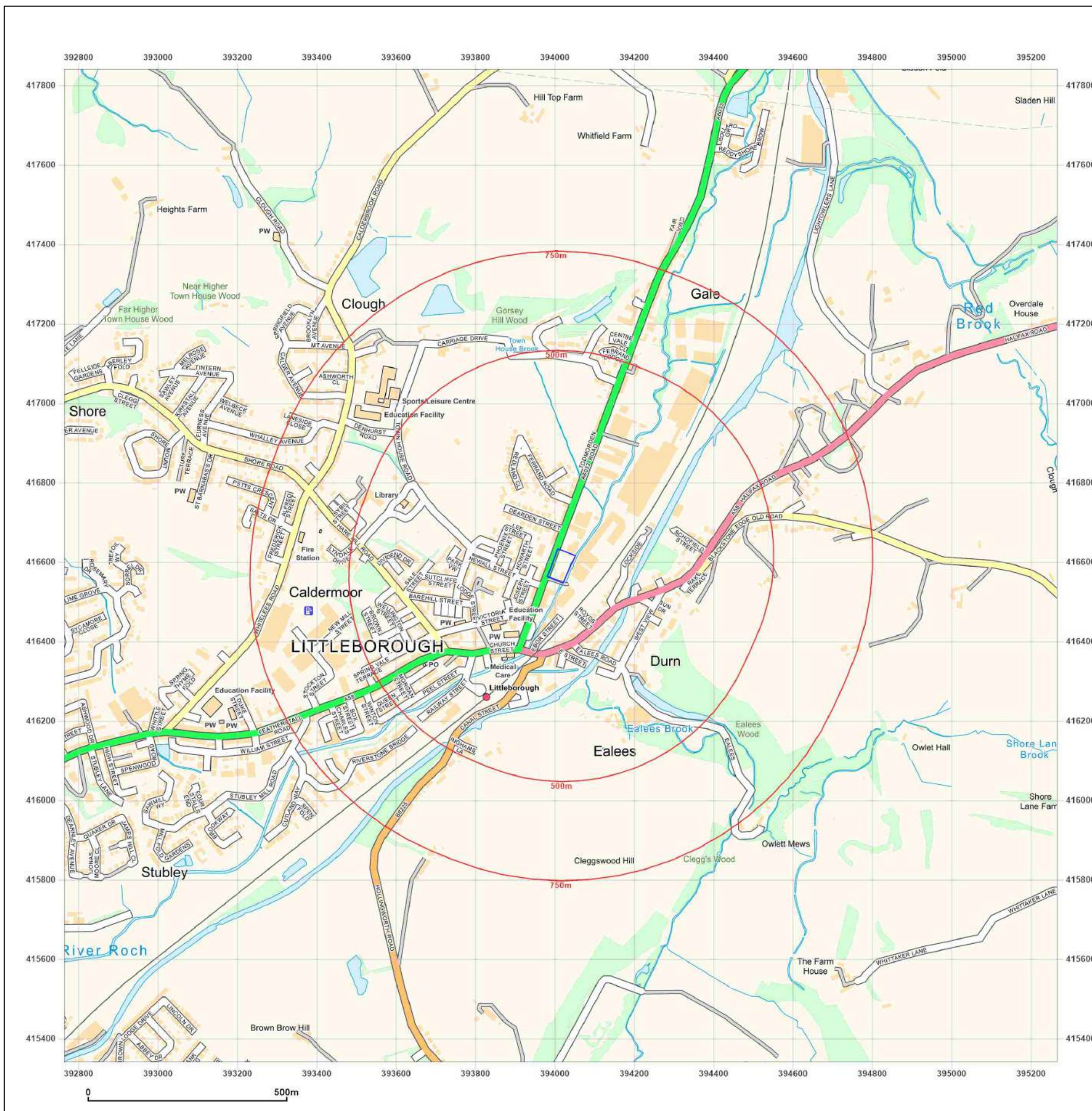


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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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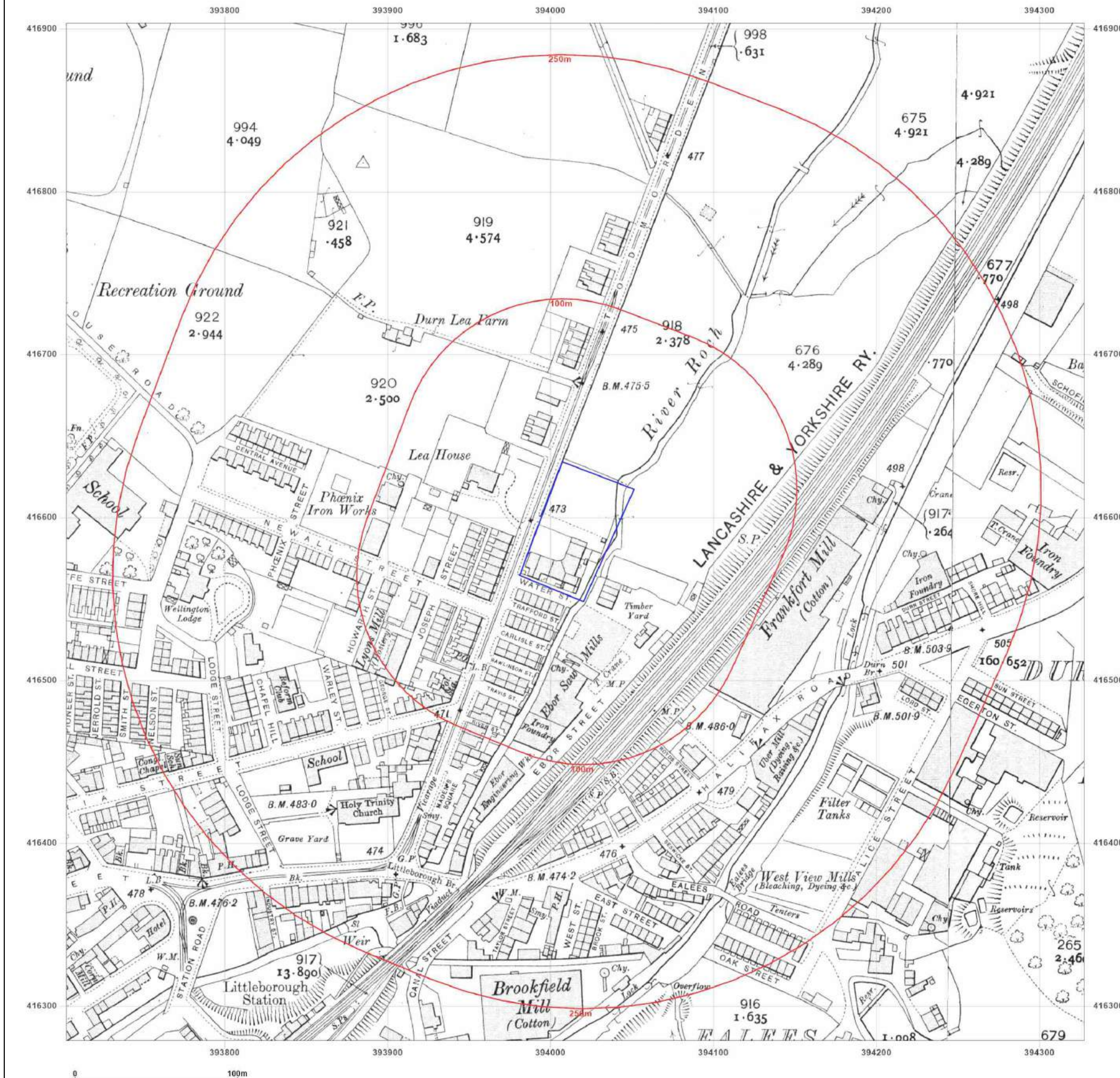


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1928-1930

Scale: 1:2,500

Printed at: 1:2,500



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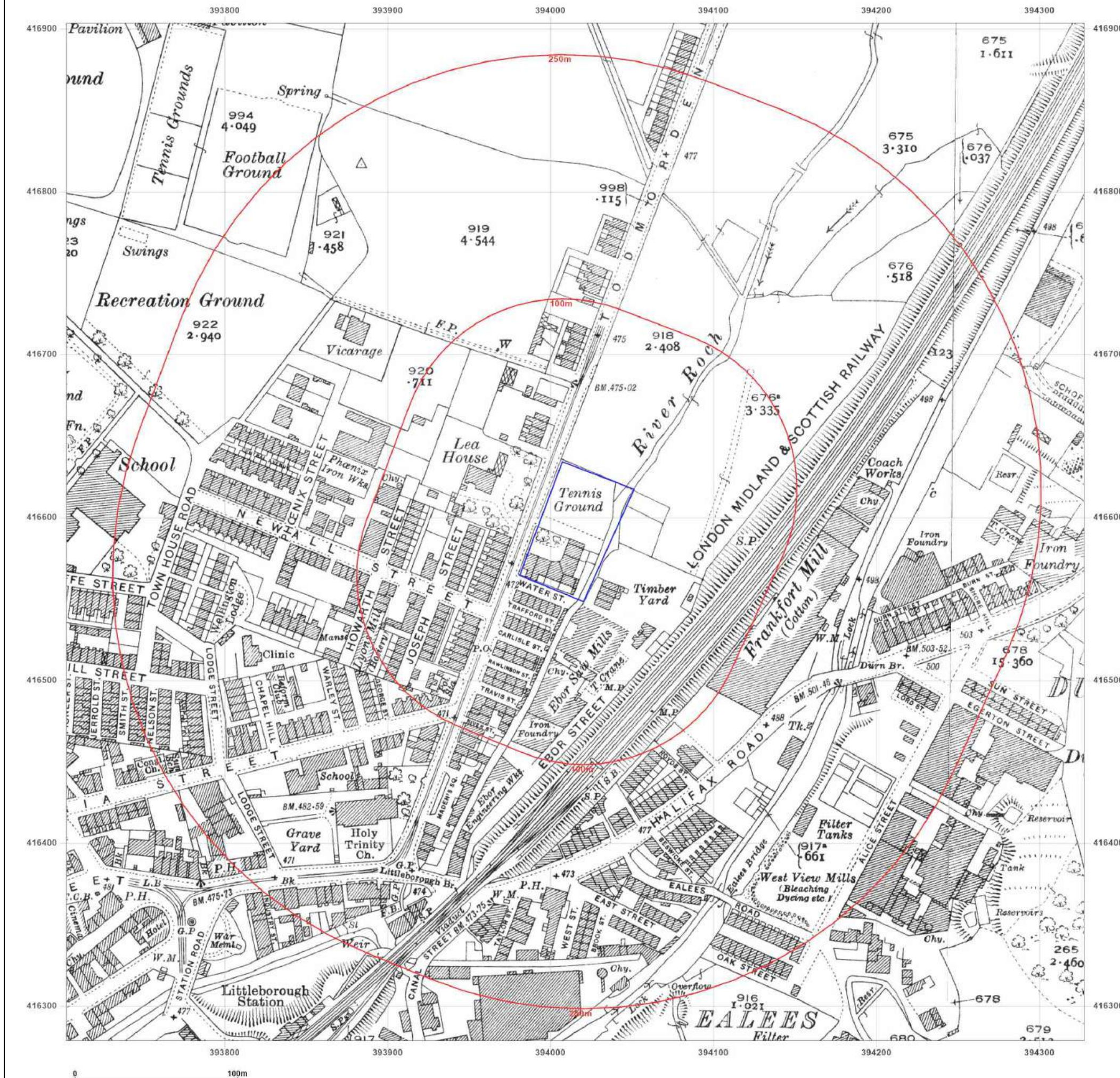


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1960-1961

Scale: 1:1,250

Printed at: 1:2,000



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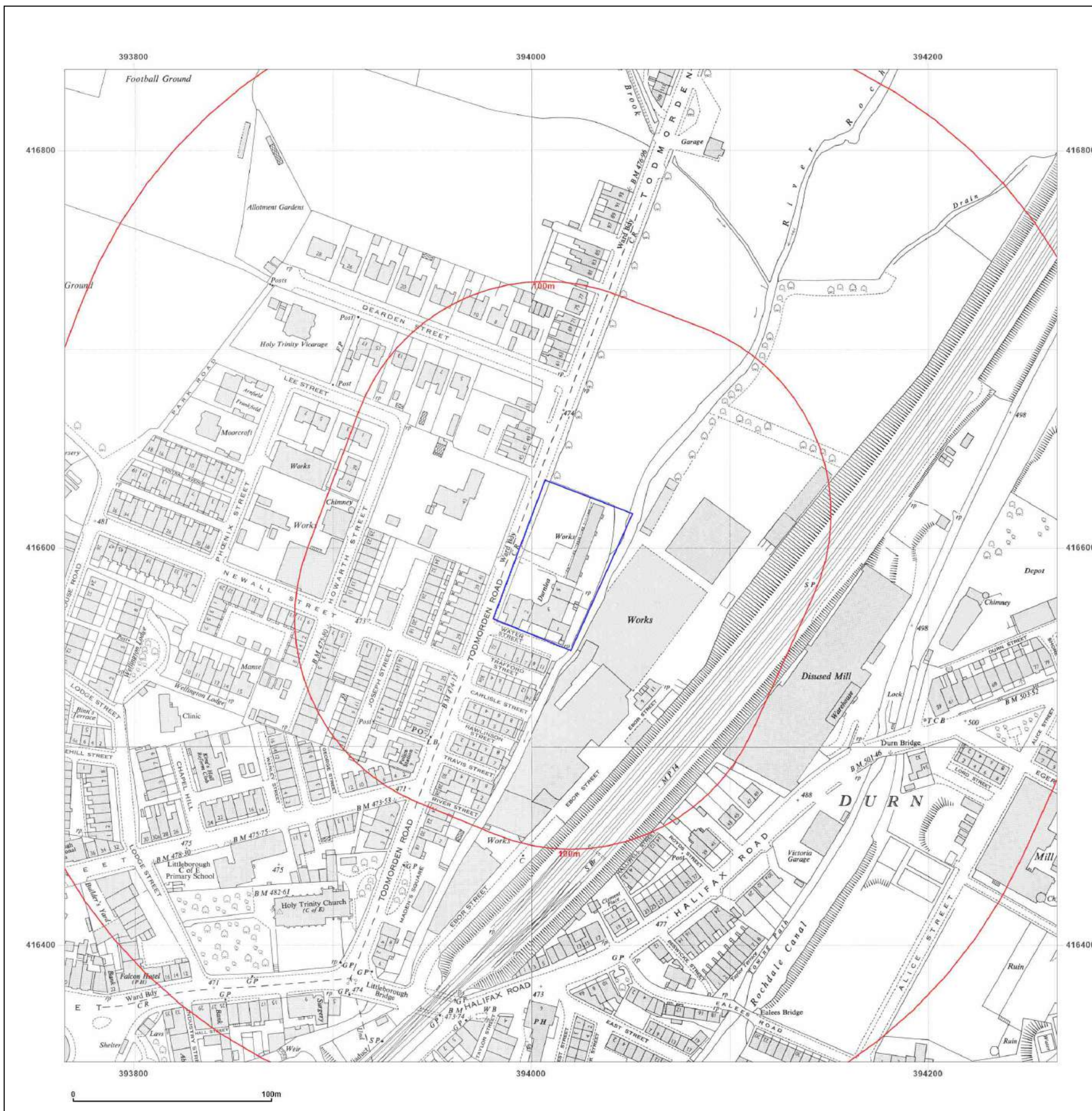


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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1961-1964

Scale: 1:2,500

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1961-1965

Scale: 1:1,250

Printed at: 1:2,000



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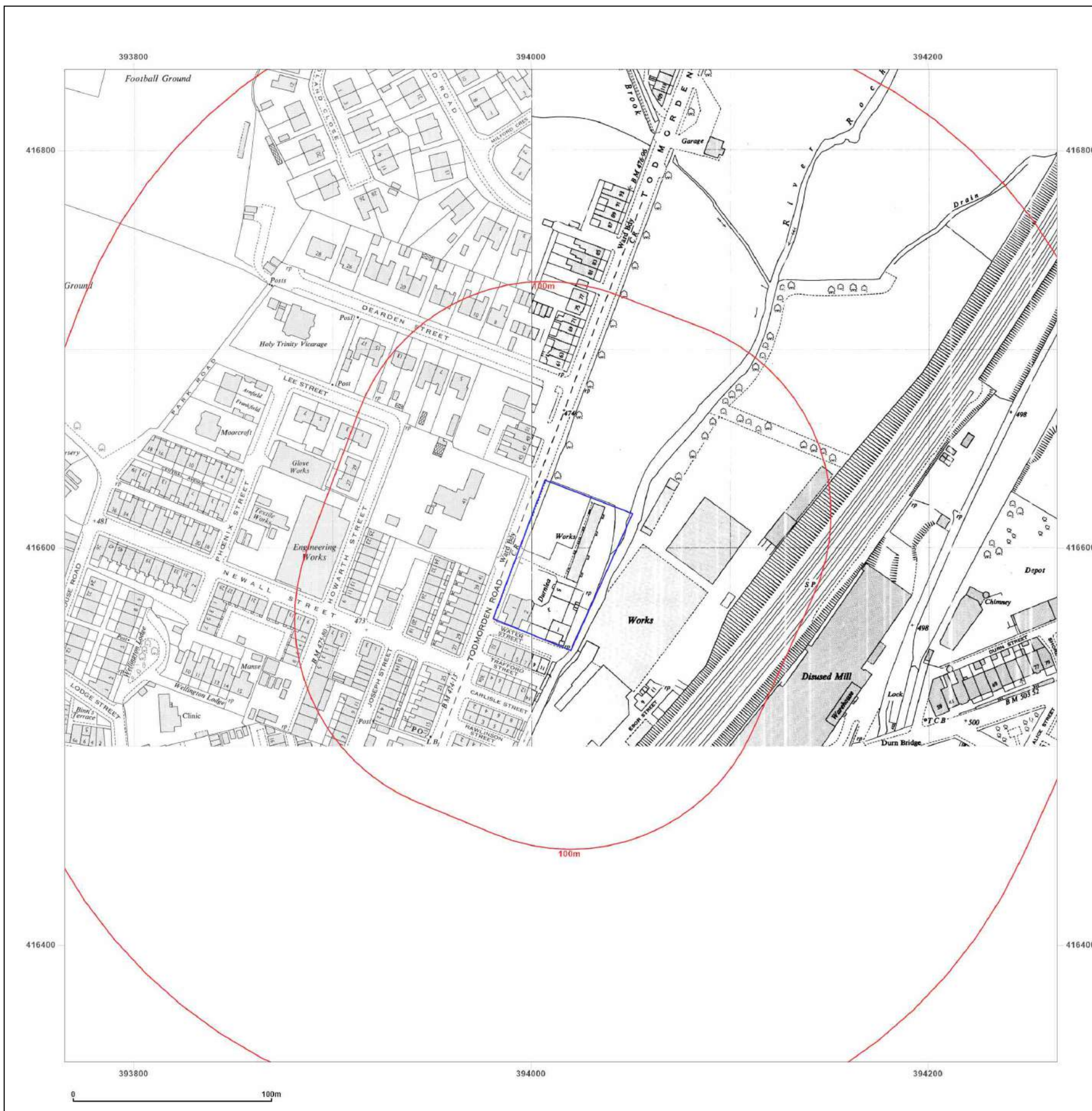


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Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1975-1976

Scale: 1:1,250

Printed at: 1:2,000



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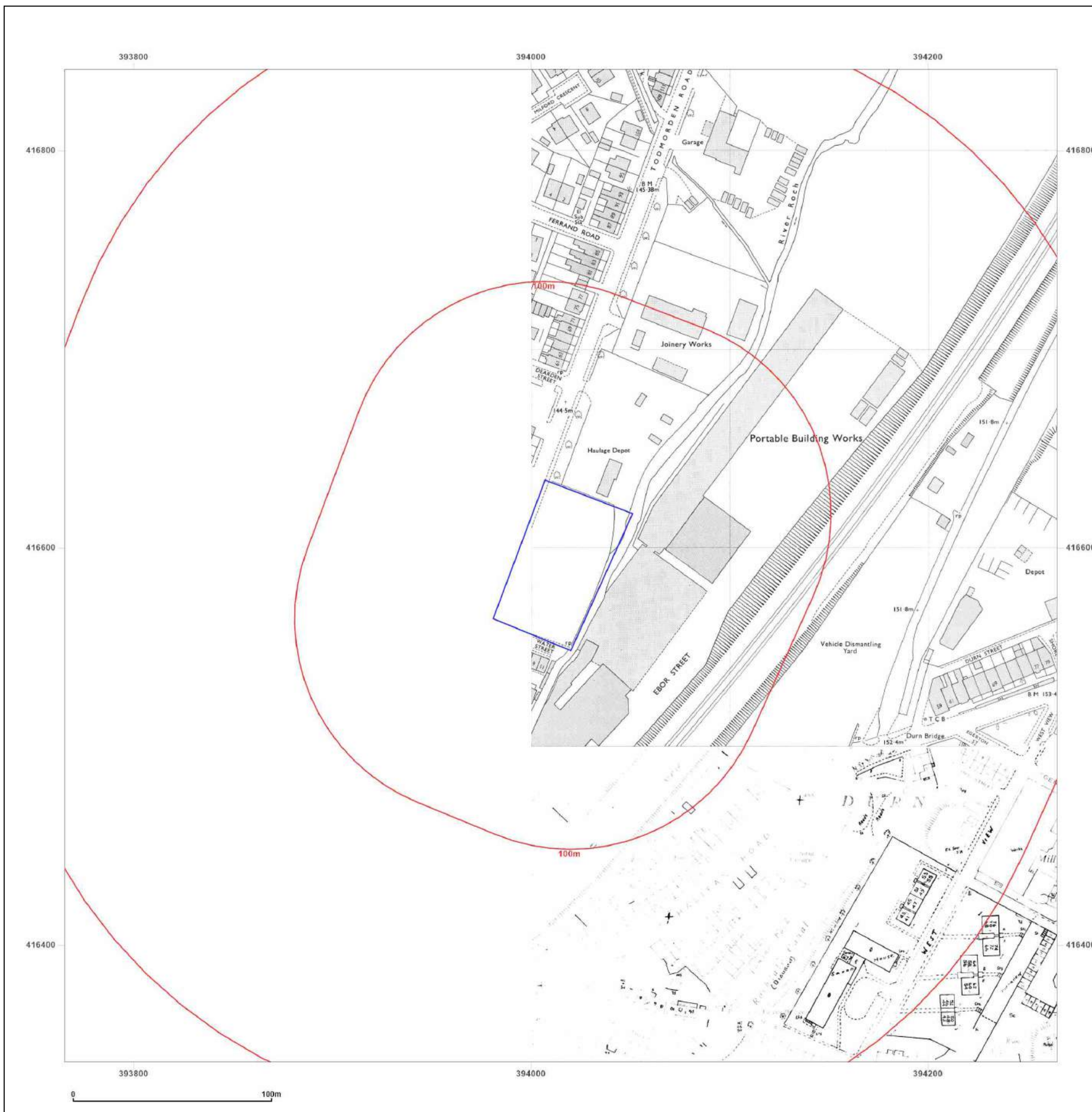


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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1976-1977

Scale: 1:1,250

Printed at: 1:2,000



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	Revised N/A
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	Copyright 1976
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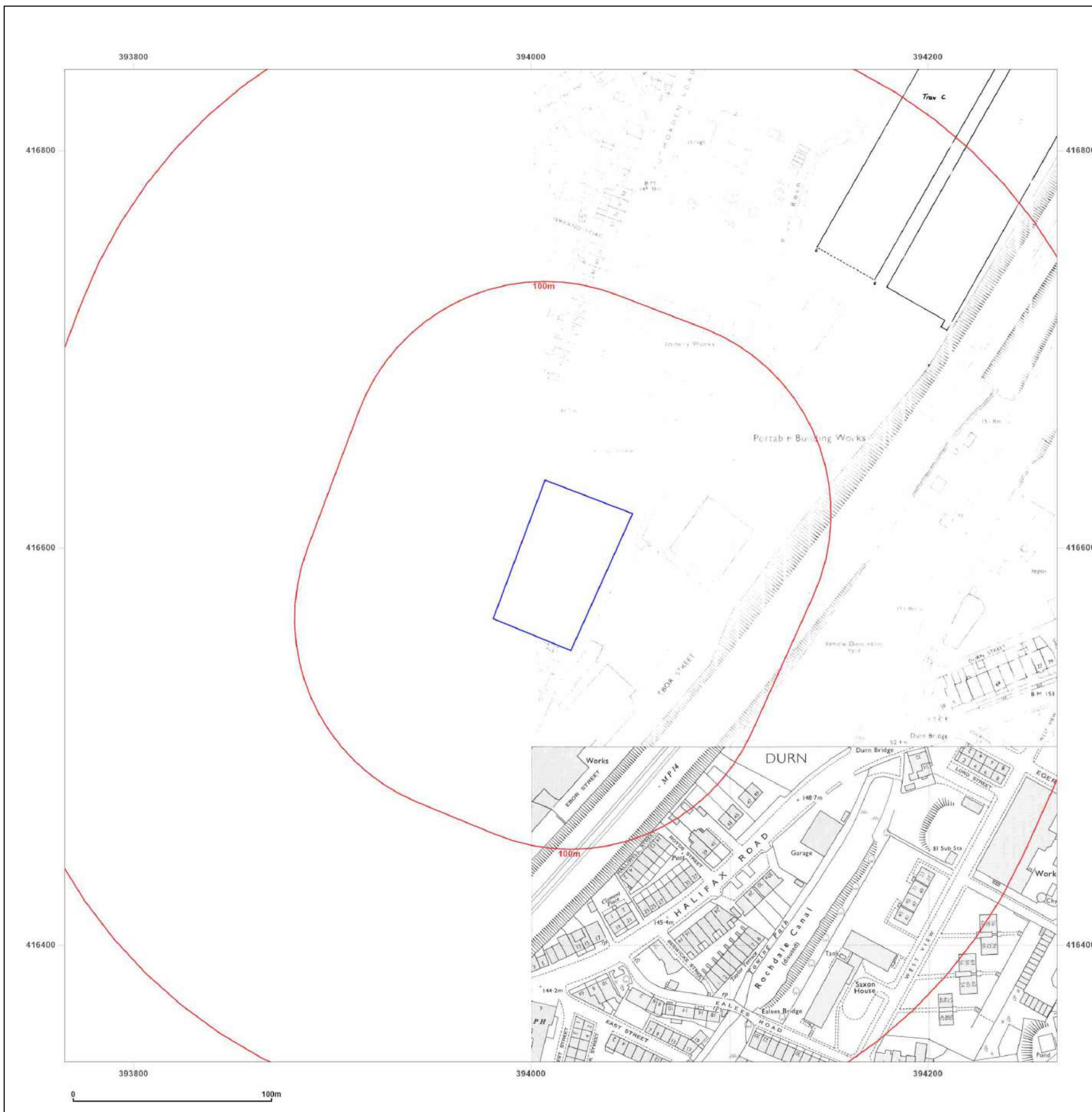


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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1983-1988

Scale: 1:1,250

Printed at: 1:2,000



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 Edition N/A
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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

GNG foam converters site

Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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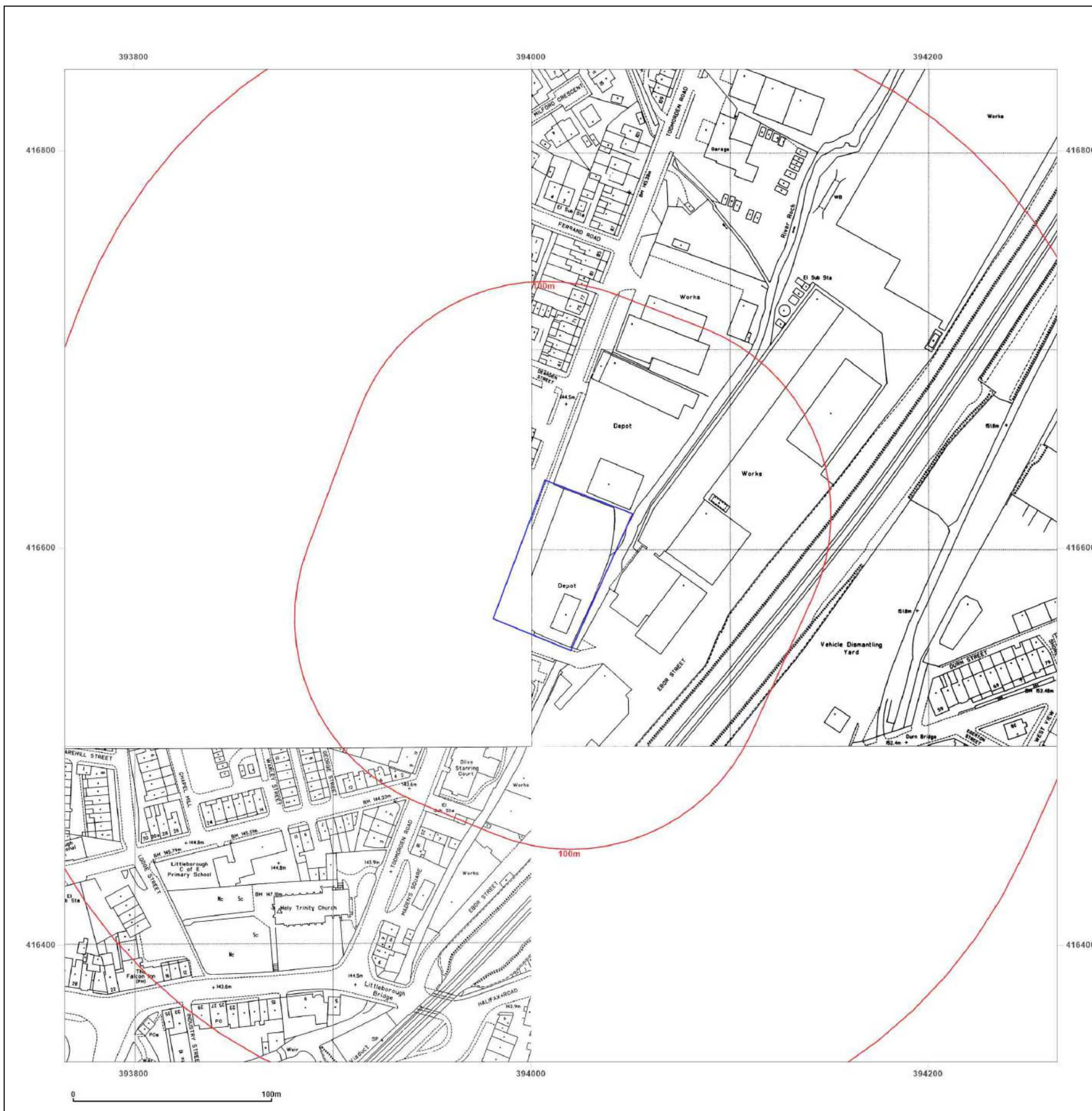


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Site Details:

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Client Ref: GNGFoamConverters
Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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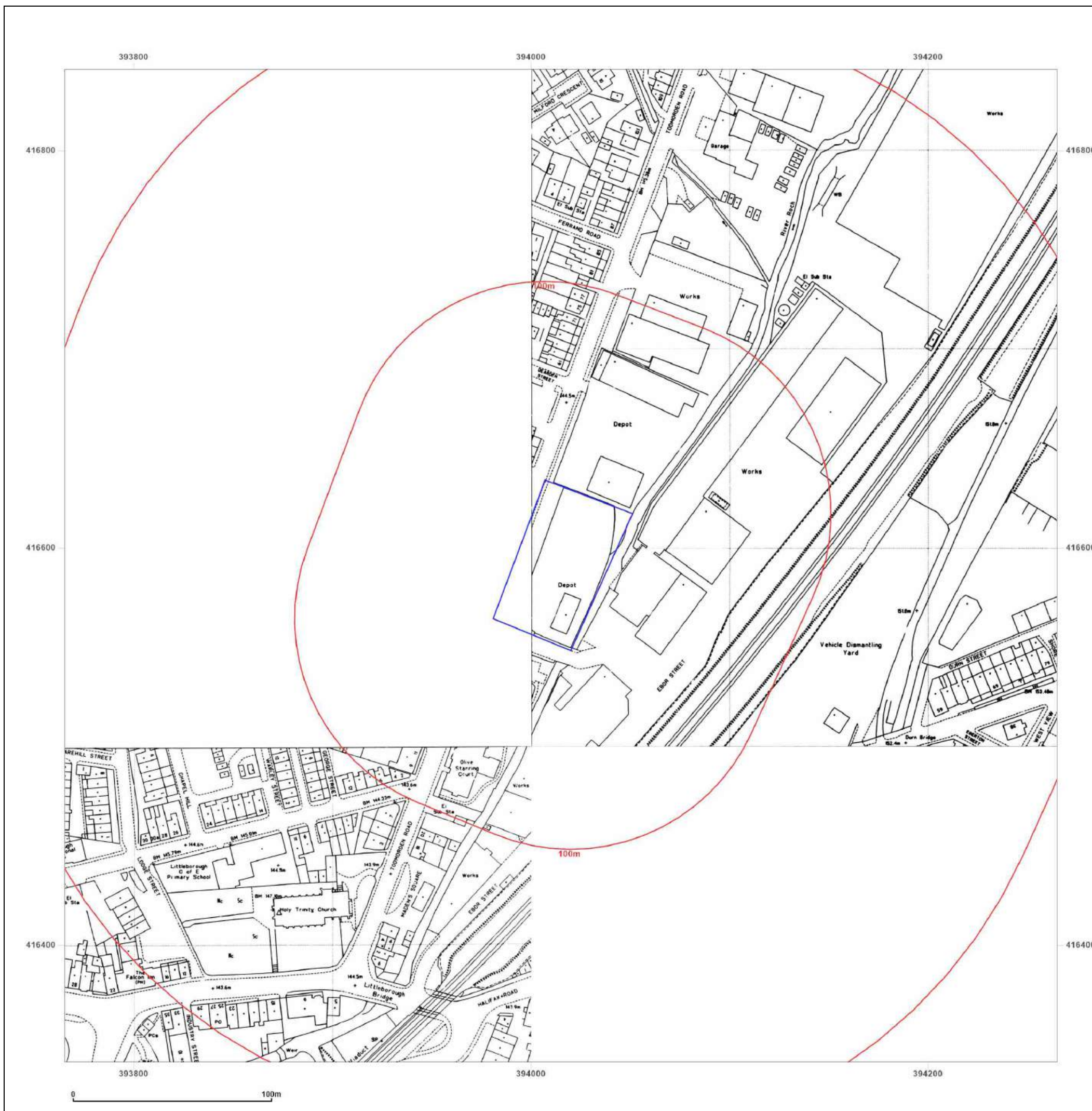


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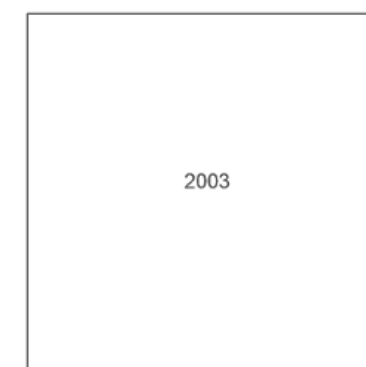
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Report Ref: GS-QCE-Y2W-SOM-9Q9
Grid Ref: 394015, 416591

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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APPENDIX C – Preliminary conceptual model

Potential receptor	Comments	Include in PCM
Property		
On site		
Crops	None intended on site	
Domestic produce	May be grown in residential gardens	X
Livestock	None anticipated on site	
Domestic animals	May be owned by residents	X
Game	None on site	
Off site		
Crops	No adjacent farmland	
Domestic produce	Possibly in houses adjacent to the site	X
Livestock	None	
Domestic animals	May belong to adjacent residents	X
Game	None	
Property: Buildings		
On site		
	Residential properties, services, flora, fauna	X
Off site		
	Residential properties, services, flora, fauna	X
Humans		
On site		
Residents	Future residents	X
Construction workers	During ground investigations	X
Employees	Landscape gardeners	X
Surface water users	No current surface water abstractions located on site	
Off Site		
Residents	Residents adjacent to site	X
Recreational users	Recreational walkers	X
Groundwater users	No groundwater extraction sites	
Controlled waters		
On site		
Surface waters	No surface water features on site	
Groundwater	The underlying superficial geology and bedrock Aquifer are classified as a Secondary A Aquifer. These both represent significant potential receptor.	X
Off site		
Controlled waters	There are 19 surface water features recorded within 250m of the site. The most significant ones are River Roch which forms the site boundary and the Rochdale Canal within 50m of the site. These are both potential receptors.	X
Ecological systems		
On/off site		
SSI, nature reserves, SACs etc	None within 250m of the site	

Table A: Potential Receptors to be Considered in the Preliminary Conceptual Model

Link	Source	Hazard	Transport Mechanism	Pathway	Medium of exposure	Receptor	Risk Summary
1	Contaminated soils	Direct contact /ingestion of soil or dust	Direct contact with contaminated soils	Dermal contact/ingestion of soil at surface	Soil	Human (on site/ off site) domestic pets	Low
2	Contaminated soils	Particulate inhalation	Wind blown particulates	Inhalation of particulates	Air	Human (on site/ off site) domestic pets	Low
3	Contaminated soils	Impaired produce growth	Uptake of contaminants by homegrown produce resulting in loss	Uptake during growth	Vegetable produce	Property (domestic produce)	Low
4	Contaminated soils	Ingestion of contaminants	Uptake of contaminants by homegrown produce	Consumption of home grown produce	Vegetable produce	Humans	Low
5	Contaminated soils / coal measures	Inhalation of ground gas	Degradation of contaminants generating ground gas through unsaturated zone to soil leading to inhalation	Inhalation of gases	Air	Humans (on site/off site, domestic pets)	Medium
6	Contaminated soils	Vapour inhalation	Volatilisation of organic compounds through unsaturated zone	Inhalation of vapours	Air	Human (on site/ off site) domestic pets	Low

			of soil leading to inhalation				
7	Contaminated soils	Damage of structures / services	Direct contact of contaminants with building structures/services	Direct contact	Soil/Water	Flora, services, concrete	Low
8	Contaminated soils	Degradation of perched water quality	Dissolution or suspension of contaminants into perched waters and migration to on-site and off-site receptors	Dissolution or suspension	Water	Perched waters, surface water	Low
9	Contaminated soils	Pollution of underlying groundwater	Dissolution or suspension of contaminants into groundwaters	Dissolution or suspension	Water	Groundwater	Low

Table B: Preliminary Conceptual Model

**Relative screening and prioritisation for further investigation or assessment*

High	Higher probability of occurrence and identification of primary sources of contamination with respect to most sensitive receptors.
Medium	Pollutant linkage generally dependent on the presence of other primary pollutant linkages and/or where pollutant linkage generally associated with less sensitive receptors.
Low	Lower probability of occurrence such as based on requirement for significant migration pathway or where pollutant linkage requires the presence of source contaminants at concentration likely to be much higher than other identified pollutant linkages.