PHASE I DESK STUDY REPORT

WALSHAW ROAD, BURY

REC REFERENCE: 108585P1R0

REPORT PREPARED FOR: VERNON & CO

NOVEMBER 2019



An Ensafe Company

DELIVERING ENVIRONMENTAL AND RISK MANAGEMENT SOLUTIONS

QUALITY ASSURANCE

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EXECUTIVE SUMMARY

Site Address	Walshaw Road, Bury, BL8 3AE
Grid Reference	377968, 411667
Site Area	27.953 Ha
Current Site Use	Arable land bordered by hedgerows.
Proposed Use	The proposed development is for the construction of residential dwellings, secondary roads, pocket greenspaces and footpath connections. Pedestrian and cycle routes are also proposed.
Environmental Setting	▶ The site is underlain by superficial deposits of Till (Diamicton) (Secondary undifferentiated aquifer); this is underlain by bedrock of the Pennine Lower Coal Measures Formation (Secondary A aquifer); ▶ The site is not located within a Groundwater Source Protection Zone (SPZ); and ▶ The site has a very low Risk of Flooding from Rivers and the Sea (RoFRaS).
Site History	The site has always been largely agricultural fields. Sewage works existed in the north east of the site between 1926 and 1956 and unspecified works to the south east existed between 1969 and 1980. The surrounding area has undergone moderate scale development between 1850-2019, predominantly residential with some commercial / industrial to the south west.
Radon	The site is not situated within a radon affected area as less than 1% of properties are above the action level. No radon protective measures are necessary.
Conceptual Site Model (CSM)	**Contaminant Sources – On Site** ▶ Made ground associated with historic structures including small building on the eastern boundary within the southern part of the site, small buildings close to the south side of Walshaw Road, and a small building on the north western boundary in the northern part of the site; ▶ Made Ground associated with the historic sewage treatment works; ▶ Made Ground and ground gas from infilled pond in central southern part of site; ▶ Ground gas generation from coal seams subcrops across the site; ▶ Potentially infilled land and unspecified heaps associated with the sewage treatment works; ▶ Historic nurseries; and ▶ Made Ground and ground gases associated with 2 mine shafts and the immediate surrounding area. **Contaminant Sources - Off Site** ▶ Potentially infilled land; Unspecified heaps; and Refuse disposal facility (nearest 1m NE); and ▶ Historic and present unspecified works / depots / warehouses (nearest 34m E). **Potential Pathways** ▶ Migration of mobile contaminants off site via services, sewers and manmade conduits; ▶ Direct contact, ingestion and inhalation of contaminants on site; ▶ Migration of mobile contaminants into groundwater and transport to surface waters; ▶ Migration of hazardous gases; and, ▶ Uptake of toxins/phytotoxins by plants. **Human Receptors** ▶ Future site users; and ▶ Adjacent Residents. **Controlled Waters Receptors** ▶ Groundwater within the underlying superficial (secondary undifferentiated and secondary A aquifers) and bedrock (Secondary A aquifer); ▶ Walshaw Brook on the northern boundary; ▶ Elton Brook on the southern boundary ▶ Reservoir in south east corner of site which feeds into Elton Brook; and ▶ Unnamed water course in the central southern part of site feeding Elton Brook.

Conclusions and Recommendations	Based on the proposed end use of residential with access roads and footpath connections and the lack of historical development it is considered that intrusive ground investigation is only required with respect to contaminated land in the areas identified. It is understood however that a ground investigation to establish geotechnical properties for subsequent foundation design will be undertaken. During this investigation a watching brief by the geotechnical / geo-environmental site engineer should be kept to look for the potential for any contamination and adjust the scope of the investigation as appropriate. Due to the presence of coal seams and 2 historical mine shafts on site it would be appropriate to identify the depth and extent of coal within the underlying strata, and if appropriate to install combined ground gas and ground water monitoring pipes to evaluate any requirements for gas remediation measures.

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1.0 INTRODUCTION

1.1 Background

Resource and Environmental Consultants Ltd (REC) has been commissioned by Vernon & Co herein referred to as 'the Client', to undertake a Phase I Desk Study at Walshaw Road, Bury, BL8 3AE, 'the site'.

1.2 Proposed Development

Construction of residential dwellings, access roads, public open space, footpaths and cycle routes.

1.3 Objectives

The objectives of the desk-based study are to:

- Undertake a site walkover to identify any current areas of potential environmental concern in order to establish the source, pathway, receptor conceptual site model (CSM);
- Review historical plans, geology, hydrogeology, site sensitivity, flood-plain issues, mining records and any local authority information available in order to complete a Phase I Desk Study in line with Environment Agency (EA) document Model Procedures for the Management of Contaminated Land (Contaminated Land Report 11);
- Assess the implications of potential environmental risks, liabilities, and development constraints associated with the site in relation to the future use of the site and in relation to potential off-site receptors;
- Provide preliminary recommendations on potential development issues; and,
- Provide recommendations regarding future works required.

1.4 Sources of Information

Background information was sought from the following sources:

- Groundsure database search (report GS-6476607 and GS-6476608, dated 21/11/19), provided in Appendix V;
- Coal Authority Coal Mining Report (report GS-6476610), provided in Appendix V;
- Historical mapping dated 1850 to 2019. A selection of historical map excerpts are reproduced in Section 3.1 and provided in full within Appendix V;
- Online planning records held by Bury Metropolitan Borough Council;
- Radon: Guidance on protective measures for new buildings (BRE Document BR 211, 2015) and HPA Indicative Radon Atlas for England and Wales); and,
- British Geological Survey Online Mapping (http://www.bgs.ac.uk).

1.5 Limitations and Confidentiality

The full limitations of this report are presented in Appendix I. REC has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from REC.

2.0 SITE SETTING

2.1 Site Details

Key details are summarised in Table 2.1 below. A site location plan (108585-001) is provided within Appendix III. All acronyms used within this report are defined in the Glossary presented in Appendix II.

Table 2.1 Site Summary

Site Address	Walshaw Road, Bury, BL8 3AE
National Grid Reference	377916, 411611
Site Area	27.53 hectares

2.2 Site Description

A site walkover was undertaken on 22nd November 2019 and the following description comprises the layout and features based on observations at the time. Selected photographs from the walkover are presented in Appendix IV.

The site is split into two main sections which are separated by Walshaw Road. Both sections of the site consist of open greenfield agricultural land which are bordered by fencing facing out onto the road. Internal partitions within the site are separated by hedgerows. The corner field located to the immediate north of Walshaw road was being utilised to keep horses and mules at the time of the walkover. The north-western section of the site also comprised an area of land which is currently housing a number of caravans.

Hazardous Materials Storage

No underground or aboveground storage tanks are known to be present.

Polychlorinated Biphenyls (PCBs)

There is a substation located alongside Walshaw Road adjacent to the northern field.

Waste Storage

No waste streams were identified.

2.3 Surrounding Area

A summary of surrounding uses is provided in Table 2.2.

Table 2.2 Summary of Land use

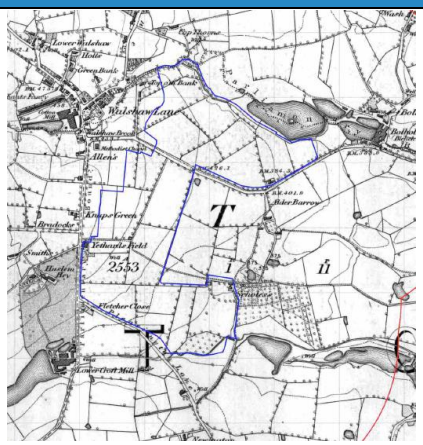
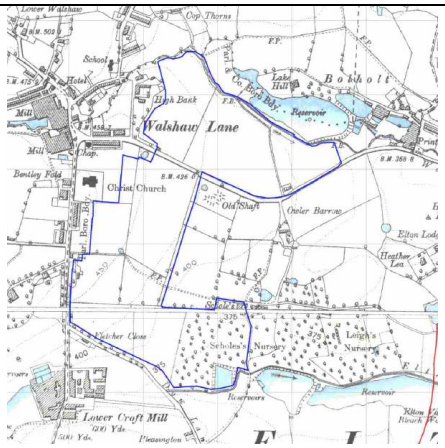
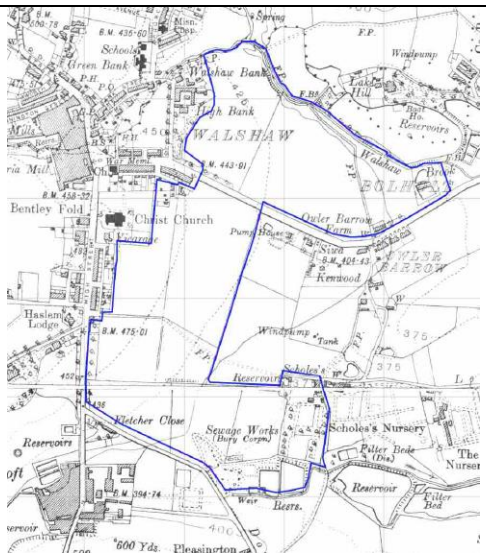
Direction	Land Use
North	Agricultural land
East	Agricultural land and residential properties
South	Residential properties
West	

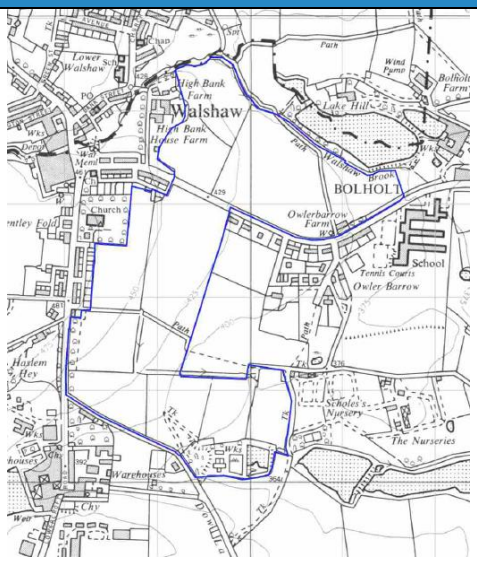
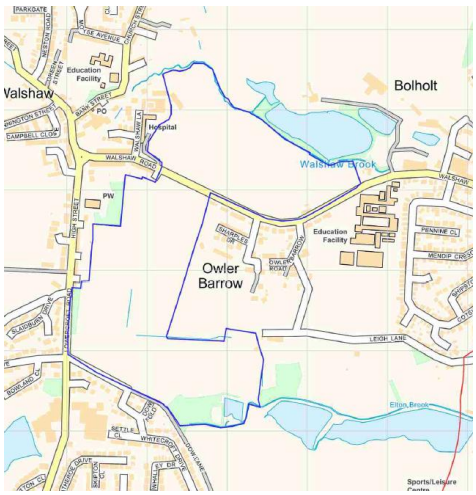
3.0 SITE HISTORY

3.1 Historical Maps

A review of historical maps pertinent to the site is summarised in Table 3.1 below.

Table 3.1 Historical Map Summary

Map Edition	Historical Land Use	Historical map excerpt
1850 (1:10,560)	In 1850 the site comprises open agricultural fields lined with hedgerows. A road running east-west separates the site. A large reservoir borders the site to the north east and other various reservoirs exist in the surrounding area. The surrounding area is largely made up of agricultural fields.	 **1850 (1:10,560)**
1891 (1:10,560)	Circa 1891, a reservoir exists in the south east corner of the site. 'Scholes Nursery' forms part of the eastern section of the site and some development has occurred in the surrounding areas. An old shaft has been labelled east. A small pond is present near the centre of the site along with a ditch that both later become infilled.	 **1891 (1:10,560)**
1909 – 1928 (1:10,560)	In 1909 a cricket ground is labelled south west; the Walshaw Brook is labelled north east running along the site boundary and the nursery that once existed to the south east has been removed. Circa 1928, a sewage works is present in the southeast of the site. The surrounding area has been further developed. By 1956, the sewage works is labelled as disused.	 **1928 (1:10,560)**

Map Edition	Historical Land Use	Historical map excerpt
1969 (1:10,560) - 2019 (1:10,000)	In 1969, an unspecified works is labelled south east adjacent to the reservoir in the location of the sewage works. A number of small building s are present close to Walshaw Road in 1959 which are later removed. Warehouses are labelled south west indicating an expansion of industrial / commercial development in the surrounding area. Further residential properties have been constructed in the surrounding area. By 1980, the works to the south east have been labelled as disused and by 2003 have been removed. The site remains largely unchanged in 2019.	 **1969 (1:10,560)**  **2019 (1:10,000)**

3.2 Historical Database

A review of potentially contaminative land uses identified on historical Ordnance Survey maps within a 250m radius of the site is summarised below in Table 3.2.

Table 3.2 Summary of Potentially Contaminative Historical Land Uses

Surrounding Feature	Distance (m)	Dates	Direction
Sewage Works Air Compressing Station	0	1926 - 1956	On Site
Unspecified Heap		1908 - 1980	
Potentially Infilled Reservoirs / Ponds		1851-1980	
Unspecified Works		1969-1980	
Nursery		1890-1938	
Settling Tank		1930-1939	
Potentially Infilled Reservoirs / Ponds	1-218	1891-1980	W / SW / SE / E / NE
Nursery	8-167	1890 - 1980	E
Unspecified Heap	21-29	1891 - 1938	E / SW
Disused Filter Beds	28-29	1927-1938	E
Unspecified Works / Warehouses / Depot	34 - 226	1927 - 1980	SW / E / NW / NE
Old Coal Shaft / Ground Workings	37	1891 - 1956	SW / E
Unspecified Mill	58 - 204	1851 - 1980	SW / N / NW / E / W
Electricity Sub Station	58-238	1975-1996	S / SW / NW / E
Unspecified Tanks	69 - 205	1851 - 1980	NW / N / SW
Boat House	94 - 104	1909 - 1956	NE
Chimney	99 - 161	1969 - 1974	SW
Vehicle Repair Service	124-138	1959-1989	W / NW
Smithy	206	1851	W

3.3 Planning History

REC has undertaken a review of online planning records held by Bury Metropolitan Borough Council and found various planning applications relating to the residential properties in the surrounding area, i.e. refurbishments; erection of dwellings; and extensions, however there are no records of planning applications relating directly to the site.

4.0 ENVIRONMENTAL SETTING

4.1 Geology & Hydrogeology

The British Geological Survey (BGS) GeoIndex indicates superficial deposits of Till deposits are present on site, underlain by bedrock of the Pennine Lower Coal Measures Formation as detailed in Table 4.1.

Table 4.1 Summary of Geological Information

Classification	Strata	Description	Aquifer Classification	Permeability	Sensitivity
Superficial Deposits	Till	Diamicton	Secondary (undifferentiated)	Low - Moderate	Low – Medium
	Glaciofluvial Deposits (present only along Walshaw Brook at the very northern extent of the site)	Sand and Gravel	Secondary A	Moderate	Moderate
	Alluvium (present only at southern tip of site in area of former sewage works)	Clay, silt, sand and gravel	Secondary (undifferentiated)	Low - Moderate	Low – Medium
Bedrock	Cannel Rock (South Lancashire)	Sandstone	Secondary A	Moderate	Medium
	Pennine Lower Coal Measures Formation	Siltstone, Mudstone and Sandstone	Secondary A	Moderate	Medium
	Old Lawrence Rock	Sandstone	Secondary A	Moderate	Medium
	Pennine Lower Coal Measures Formation	Sandstone	Secondary A	Moderate	Medium
	Trencherbone Rock	Sandstone	Secondary A	Moderate	Medium

The closest publicly available borehole record (SD71SE13) lies on the eastern boundary of the site. However, the borehole begins at 74 mbgl as it was drilled through a shaft. The geology noted comprises alternate bands of shale and sandstone. A band of coal was present at 101 mbgl. This record is not considered relevant due to the depth at which recording was begun.

It is unknown at this stage how deep the superficial deposits are likely to be.

The data search report indicates that there are 2no. historical and no active groundwater abstraction licenses within 1km of the site; the closest active license is located 1.59km north. The site does not lie within a Groundwater Source Protection Zone (SPZ).

The surface soils on site are categorised as being minor aquifer/high leaching potential. These soils are assumed to be highly permeable in the absence of site-specific information.

4.2 Hydrology

The nearest surface water features are a reservoir that exists in the south east corner and the Walshaw Brook located on site to the north east. The Walshaw Brook is an inland river and its catchment area is the River Mersey. In 2009 the River Mersey was given a Grade ‘A’ for chemical quality which is based on the General Quality Assessment Headline Indicators scheme (GQAHI). The results are graded from A ('Very Good') to F ('Bad').

The site is not located within any Environment Agency Floodplain Zones and is in an area with a "Very Low" (less than 1 in 1000) risk of flooding from rivers and the sea (RoFRaS) in any given year.

The Groundsure report notes a groundwater flooding susceptibility area within 50m of the site associated with clearwater and superficial deposits flooding. This is flooding associated with unconfined aquifers and shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers respectively.

4.3 Geotechnical Data

Qualitative geotechnical data presented within the Groundsure Report is summarised in Table 4.2 below.

Table 4.2 Summary of Data Search Geotechnical Information

Hazard	Designation	Comments
Shrink-Swell Clay	Very Low	Ground conditions predominantly low plasticity. No special actions required.
Landslides	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place.
Ground Dissolution	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions.
Compressible Ground	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design.
Collapsible Deposits	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Running Sand	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water.

4.4 Mining and Ground Workings

The site is located within a Coal Mining Reporting Area defined by the Coal Authority and part of the site is described as a 'High Risk Development Areas'. As such, a Consultants Coal Mining Report (Groundsure report ref. GS-6476610) was obtained and is presented in Appendix V.

The report shows that the site lies within an area where past underground coal mining occurred. The site could be affected by past underground mining of 2no. seams of coal from an unnamed colliery at 42m and 56m depth, last worked between 1876-1878. It is likely that there are other unrecorded shallow (<30m) workings in this area.

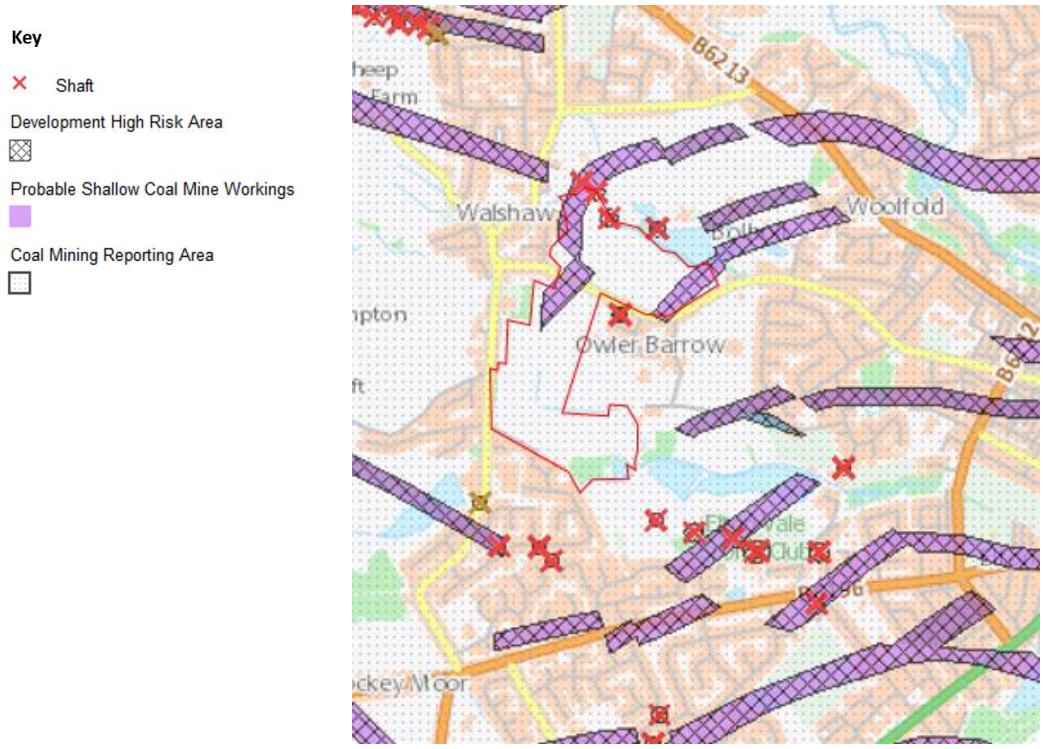


Figure 4.1 **Excerpt of Coal Authority Interactive Map showing extent of coal seams; probable past shallow coal mining; and mine entries.**

2no. coal shafts have been identified within the site boundary. The only shafts recorded in the Groundsure Report are located 37m south west and were recorded between 1891 and 1909 and a shaft appears on the historical maps in 1891 to the east of the site, therefore it is assumed that these shafts were active in the late 1800s. The Coal Authority have a record that 1no. shaft found outside the site boundary was infilled by Thos Kent and Sons Building Contractors in 1971.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence. The report shows that no recorded opencast mining has historically occurred on site. The Coal Authority reports no faults, fissures or breaklines.

The report indicates that no future opencast or underground mining is planned in this area. However, the site is located in an area where reserves of coal exist and could be worked on at some time in the future. No mine gas emissions or emergency surface hazard call out procedures are recorded at the site. There has been no evidence of a damage notice or subsidence claim on site or within 50m of the site since 31st October 1994.

4.5 Railways and Tunnels

The nearest active railway line is located approximately 2km east of the site. A review of available data found no historical or active tunnels are located within 250m of the site.

4.6 Radon Risk Potential

The site is not situated within a radon affected area as less than 1% of properties are above the action level. No radon protective measures are necessary.

4.7 Industrial Land Uses

Available records identify the following potentially contaminative current industrial land uses within 200m of the site.

Table 4.3 Industrial Land Uses

Category	Activity	Distance (m)	Direction
Infrastructure and Facilities	Refuse Disposal Facilities	43	E
Industrial Features	Tank (Generic)	55	W
Infrastructure and Facilities	Electricity Sub Station*	63	S
Repair and Servicing	Vehicle Repair, Testing and Servicing*	113	SW
Transport, Storage and Delivery	Warehouse	122	E
Industrial Features	Unspecified Works or Factories	140	E
Engineering Services	Industrial Engineers*	140	SW

The data search report indicates that there are no petrol and fuel sites; high voltage underground electricity transmission cables; or pressure gas transmission pipelines within 500m.

4.8 Sensitive Land Uses

The following sensitive land uses have been identified within 2km:

- 1no. record of Local Nature Reserves; Kirklees Valley located 762m north-east; and
- 11no. records of Greenbelt Land, the closest being the Liverpool, Manchester and West Yorks Greenbelt located on site.

4.9 Site Sensitivity Assessment

The site is considered to be located within a **Low to Moderate** sensitivity setting for the following reasons:

- The underlying superficial and bedrock aquifers are classified as secondary (undifferentiated) and secondary A;
- Walshaw Brook is on the northern boundary;
- Elton Brook is on the southern boundary
- A reservoir is in south east corner of site which feeds into Elton Brook;
- An unnamed water course is in the central southern part of the site which feeds into Elton Brook.
- The site forms part of the Liverpool, Manchester and West Yorks Greenbelt; and
- The site is located within close proximity to residential properties.

5.0 CONSULTATIONS

5.1 Contaminated Land Officer

A request for information pertaining to the site was sent to the Contaminated Land Team at Bury Metropolitan Borough Council. At the time of writing, no response has been received.

5.2 Landfill Sites and Waste Treatment Sites

A review of data from the environmental search indicates that there are 7no. historic Environmental Agency licenced waste sites within 1km. The closest was located 37m north east at Bolholt Works on Walshaw Road. Its licence holder was Mancunian Waste Company and the waste type disposed was inert and industrial. This last record is dated 31.12.1984.

Historical mapping records show 3no. refuse tips within 1km of the site; the closest being 14m north east and was recorded in 1974.

On review of available records, 2no. Environment Agency licensed waste sites are located within 1.5km; the closest being a Vehicle Depollution Facility on Leigh Lane, Bury. Its operator is Club 500 Italia Limited and its annual tonnage is 4999.0.

5.3 Regulatory Database

Information in Table 5.1 below has been obtained from a commercially available environmental database and includes records not otherwise detailed in this report.

Table 5.1 Summary of Data Search Regulatory Data

Activity	0 - 249m	250 - 500m	Details
Records of Part A(2) and Part B Activities and Enforcements	0	1	The nearest activity is now historic and was located 352m east and relates to petrol vapour recovery at Hooshang Ghayouri, Walshaw Road. No enforcements notified.
Records of Licensed Discharge Consents	1	0	The nearest licensed discharge consent is located 107m north west and is related to trade discharges (cooling water) to the Walshaw Brook. Its most recent effective date was 01.09.1983 and was revoked on 13.02.1991.
Records of National Incidents Recording System (NIRS), List 2 (Pollution Incidents)	1	3	The closest pollution incident occurred on 06.11.2001 71m south west of the site. The pollutant was described as commercial waste and caused a Category 3 (Minor) impact to land and air.

6.0 CONCEPTUAL SITE MODEL (CSM)

In accordance with Environment Agency, CLR 11 (2004) and BSI 10175 (Code of Practice for Investigation of Potentially Contaminated Land), REC has developed an initial CSM to identify potential contamination sources, migration pathways and receptors within the study area.

6.1 Contaminant Sources

On Site

- Made ground associated with historic structures including small building on the eastern boundary within the southern part of the site, small buildings close to the south side of Walshaw Road, and a small building on the north western boundary in the northern part of the site;
- Made Ground associated with the historic sewage treatment works;
- Made Ground and ground gas from the infilled pond in the central southern part of the site;
- Ground gas generation from coal seams subcrops across the site;
- Potentially infilled land and unspecified heaps associated with the sewage treatment works;
- Historic nurseries; and
- Made Ground and ground gases associated with 2 mine shafts and the immediate surrounding area.

Off Site

- Potentially infilled land; Unspecified heaps; and Refuse disposal facility (nearest 1m NE);
- Historic and present unspecified works / depots / warehouses (nearest 34m E);
- Unspecified Tanks (nearest 55m W); and
- Electricity substation (63m S).

6.2 Potential Pathways

Receptors may be potentially at risk from the identified potential sources of contamination via the following pathways:

- Migration of mobile contaminants off site via services, sewers and manmade conduits;
- Direct contact, ingestion and inhalation of contaminants on site;
- Migration of mobile contaminants into groundwater and transport into surface waters;
- Migration of hazardous gases; and,
- Uptake of toxins/phytotoxins by plants.

6.3 Potential Receptors

Human Receptors

- Future site users; and
- Adjacent Residents.

Construction workers are not considered to be a plausible receptor as exposure will managed through the use of appropriate PPE and hygienic working practices, as required under HSE/ CDM regulations. Furthermore, exposure is likely to be for a short duration.

Controlled Waters

- Groundwater within the underlying superficial (secondary undifferentiated and secondary A aquifers) and bedrock (Secondary A aquifer);
- Walshaw Brook on the northern boundary;
- Elton Brook on the southern boundary

- Reservoir in south east corner of site which feeds into Elton Brook; and
- Unnamed water course in the central southern part of the site which feeds into Elton Brook.

6.4 Risk Assessment

CIRIA 552: Contaminated Land Risk Assessment 'A Guide to Good Practice', 2001 provides guidance on the approach to risk assessment. For any potential contaminant linkage consideration is given to:

- The potential severity of the risk; and
- The likelihood of the risk occurring.

Severity is assessed with consideration to the receptor and magnitude of impact. Table 6.1 overleaf provides details of each category.

Table 6.1 Severity Categories

Category	Description
Minor	Requirement for protective equipment during site works to mitigate health effects. Damage to non-sensitive ecosystems or species.
Mild	Pollution of non-sensitive water resources.
Medium	Chronic (long-term) risk to human health; Pollution of sensitive controlled waters (surface waters or aquifers)
Severe	Acute (short term) risks to human health; Major pollution of controlled waters (watercourses or groundwater)

The probability of a risk occurring considers the plausibility and sustainability of the contaminant linkage. Table 6.2 provides details of each category.

Table 6.2 Probability Categories

Category	Description
Unlikely	Contaminant linkage may be present, but the circumstances under which harm would occur are improbable.
Low Likelihood	Contaminant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Likely	Contaminant linkage may be present, and it is probable that the risk will occur over the long term.
High Likelihood	Contaminant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor.

Table 6.3 compares the probability against the severity to provide an overall risk rating for each contaminant linkage.

Table 6.3 Comparison of Probability and Severity

Probability	Severity			
	Minor	Mild	Medium	Severe
Unlikely	Very Low Risk	Very Low Risk	Low Risk	Low / Moderate Risk
Low Likelihood	Very Low Risk	Low Risk	Low / Moderate Risk	Moderate Risk
Likely	Low Risk	Low / Moderate Risk	Moderate Risk	High Risk
High Likelihood	Low / Moderate Risk	Moderate Risk	High Risk	Very High Risk

Typical consequences for each category of risk rating and likely required actions are provided in Table 6.4 below.

Table 6.4 Typical Risk Category Consequences and Actions

Risk Category	Typical Consequence and Actions
Very Low Risk	Harm is unlikely to occur and be any worse than mild.
Low Risk	Harm could occur and at worst would normally be mild. Limited further investigation may be required to clarify the risk. Remediation works are unlikely to be required and would be limited.
Low /Moderate Risk	Harm could occur, but it is unlikely that it would be severe. Limited further investigation may be required to clarify the risk. If required, remediation works are likely to be limited.
Moderate Risk	Harm could occur, but there is a low likelihood that it would be severe. Harm is likely to be mild. Some remediation works may be required in the short-term or long-term.
High Risk	Harm is likely to occur, and is likely to be severe, unless appropriate remediation or mitigation measures are completed. Remedial works may be required in the short-term and are likely to be required over the long-term.
Very High Risk	Severe harm might already be occurring, or a high likelihood that severe harm will occur unless immediate remediation or mitigation measures are completed.

It should be noted that the identification of potential contaminant linkages does not indicate that they are significant.

6.5 Conceptual Site Model

A CSM has been created using the above information and is provided on the following page.

Table 6.5 Conceptual Site Model

Source	Contaminant	Migration Pathway	Potential Receptors	Probability	Severity	Overall Risk Rating	Active / Inactive
On-Site							
Made Ground associated with demolished structures.	Heavy Metals	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	Active in areas of former structures only. Localised investigation only required.
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	
	Total Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	
	Asbestos fibres	Inhalation of fibres	Future site users	Low Likelihood	Medium	Low / Moderate	
Infilled reservoirs and pond	Heavy Metals	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	Active in area of infilled land. Further investigation required to confirm type of fill and extent.
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	
	Total Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	

	Asbestos fibres	Inhalation of fibres	Future site users	Low Likelihood	Medium	Low / Moderate	
Ground gases generated from coal seams	Ground gases	Migration of gases into buildings and subsequent inhalation.	Future site users	Low Likelihood	Mild	Low	Active in areas where coal seams present – Further investigation required.
Historic nurseries and sewage treatment works	Heavy Metals, nitrates and pesticides	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	Active in areas of former structures only. Localised investigation only required.
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	
	Total Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons	Ingestion, inhalation or dermal contact with soils	Future site users	Low Likelihood	Mild	Low	
		Leaching to groundwater	Superficial and Bedrock aquifers	Low Likelihood	Mild	Low	
		Leaching to groundwater and subsequent lateral migration	Surface Waters	Low Likelihood	Mild	Low	
	Asbestos fibres	Inhalation of fibres	Future site users	Low Likelihood	Medium	Low / Moderate	
Mine Entries	Ground gases	Migration of gases into buildings and subsequent inhalation.	Future site users	Low Likelihood	Medium	Low / Moderate	Active in area of mine entries and immediate surrounding area. Further investigation required to confirm location and backfilling / capping.
Off Site							
Potentially Infilled land; Unspecified Heaps; and Refuse Disposal Facility (nearest 1m NE)	Ground gases	Migration of gases into buildings and subsequent inhalation.	Future site users	Low likelihood	Mild	Low	**Inactive** Due to the distance, no further action is considered necessary
Historic and present Unspecified Works / Depot / Warehouses	Heavy Metals	Ingestion, inhalation or dermal contact with soils	Future site users	Low likelihood	Mild	Low	

(nearest 34m east); and Unspecified Tanks (nearest 55m west)		Leaching to groundwater and lateral migration within groundwater	Groundwater aquifers and Walshaw Brook	Unlikely	Mild	Very Low	
	Total Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons	Ingestion, inhalation or dermal contact with soils	Future site users	Low likelihood	Mild	Low	
		Leaching to groundwater and lateral migration within groundwater	Groundwater aquifers and Walshaw Brook	Unlikely	Mild	Very Low	
	Asbestos fibres	Inhalation of fibres	Future site users	Unlikely	Medium	Low	
Electricity Substation (nearest 63m south)	PCB's	Lateral and vertical migration	Future site users	Unlikely	Mild	Very Low	**Inactive** – due to the immobile nature of the contaminants, it is unlikely to present a risk.
		Leaching to groundwater and lateral migration within groundwater	Groundwater aquifers and Walshaw Brook	Unlikely	Mild	Very Low	

7.0 CONCLUSIONS & RECOMMENDATIONS

7.1 Human Health

Overall, the preliminary risk classification of the site in relation to the proposed development is considered to be **Low / Moderate** in localised areas only. The remainder of the site is very low risk with no historic contaminating land uses identified.

The risk to human health from potential **off-site** sources is considered to be **Very Low / Low.**

7.2 Controlled Waters

The risk posed to surface water groundwater aquifers is considered to be **Low** in localised areas only. The remainder of the site is very low risk with no historic contaminating land uses identified.

7.3 Geotechnical Constraints

Coal seams, mine entries and infilled land have been identified as part of this desk study and future ground investigation should incorporate the following to address these risks:

- Trenching around the mine shafts to confirm location and backfilling or capping details;
- Boreholes and trial trenches in the area of the infilled reservoirs and the pond to confirm the extent and depth and inform design of foundations; and
- Boreholes to confirm the presence of coal seams, their thickness and if they have been worked locally.

7.3 Recommendations

Based on the proposed end use of residential with access roads and footpath connections and the lack of historical development it is considered that intrusive ground investigation is only required with respect to contaminated land in the areas identified.

It is understood however that a ground investigation to establish geotechnical properties for subsequent foundation design will be undertaken. During this investigation a watching brief by the geotechnical / geo-environmental site engineer should be kept to look for the potential for any contamination and adjust the scope of the investigation as appropriate. Due to the presence of coal seams and 2 historical mine shafts on site it would be appropriate to identify the depth and extent of coal within the underlying strata, and if appropriate to install combined ground gas and ground water monitoring pipes to evaluate any requirements for gas remediation measures.

APPENDIX I

LIMITATIONS

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between REC Ltd and the Client.

2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.

3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.

4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not be made known or accessible.

5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.

6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.

7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.

8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.

9. REC cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by REC is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by REC in this connection without their explicit written agreement there to by REC.

10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

APPENDIX II

GLOSSARY

TERMS

AST	Above Ground Storage Tank
BGS	British Geological Survey
BSI	British Standards Institute
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CIEH	Chartered Institute of Environmental Health
CIRIA	Construction Industry Research Association
CLEA	Contaminated Land Exposure Assessment
CSM	Conceptual Site Model
DNAPL	Dense Non-Aqueous Phase Liquid (chlorinated solvents, PCB)
DWS	Drinking Water Standard
EA	Environment Agency
EQS	Environmental Quality Standard
GAC	General Assessment Criteria
GL	Ground Level
GSV	Gas Screening Value
HCV	Health Criteria Value
ICSM	Initial Conceptual Site Model
LNAPL	Light Non-Aqueous Phase Liquid (petrol, diesel, kerosene)
ND	Not Detected
LMRL	Lower Method Reporting Limit
NR	Not Recorded
PAH	Poly Aromatic Hydrocarbon
PCB	Poly-Chlorinated Biphenyl
PID	Photo Ionisation Detector
QA	Quality Assurance
SGV	Soil Guideline Value
SPH	Separate Phase Hydrocarbon
Sp.TPH (CWG)	Total Petroleum Hydrocarbon (Criteria Working Group)
SPT	Standard Penetration Test
SVOC	Semi Volatile Organic Compound
UST	Underground Storage Tank
VCCs	Vibro Concrete Columns
VOC	Volatile Organic Compound
WTE	Water Table Elevation

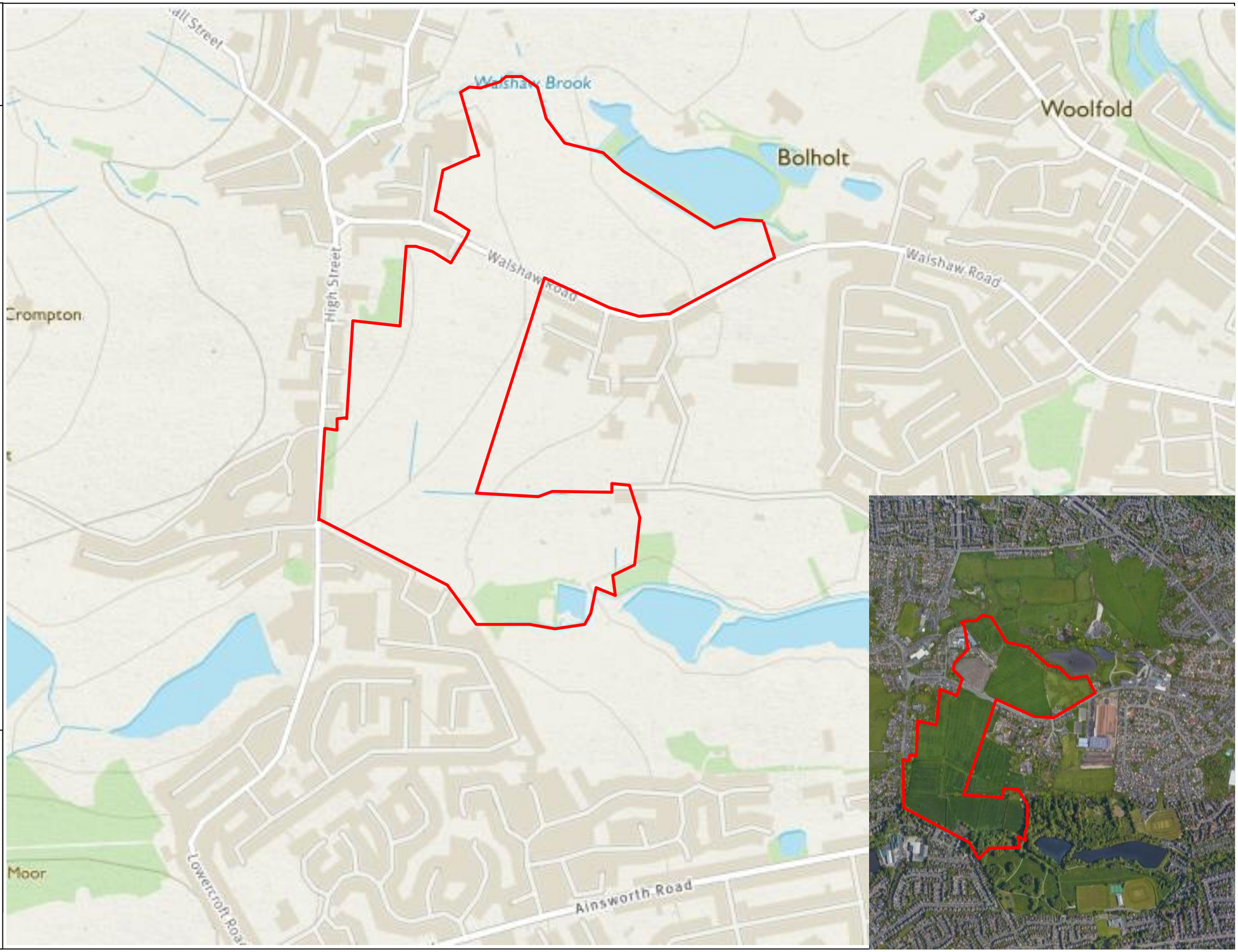
APPENDIX III

DRAWINGS

KEY:

N

Site boundary



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Job Title: Walshaw Road, Bury

Client: Vernon & Co

Job No:	108585
Drawn By:	MD
Approved by:	NB

Notes: NOT TO SCALE

Drawing Title: 001 – Site Location Plan

APPENDIX IV

PHOTOGRAPHS



Photograph 1 – Access onto southern areas of the site via Walshaw Road



Photograph 2 – Access onto southern section of the site via Walshaw Road



Photograph 3 – Typical ground conditions in southern areas of the site



Photograph 4 – Access onto northern section of the site



Photograph 5 – Typical ground conditions in the northern areas of the site

APPENDIX V

GROUNDSURE AND COAL AUTHORITY REPORT

APPENDIX V GROUNDSURE AND COAL AUTHORITY REPORT

Groundsure
LOCATION INTELLIGENCE

Resource & Environmental Consultants Ltd REC

RESOURCE & ENVIRONMENTAL
CONSULTANTS LTD, OSPREY HOUSE 217-227,
BROADWAY,
SALFORD, M50 2UE

Groundsure Reference:	GS-6476607
Your Reference:	107765_Walshaw_Road_PO7772
Report Date	21 Nov 2019
Report Delivery Method:	Email - pdf

Enviro Insight

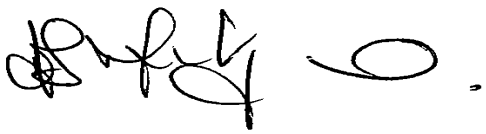
Address: Walshaw Road, Bury, BL8 3AE

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Enviro Insight

Address:	**Walshaw Road, Bury, BL8 3AE**
Date:	**21 Nov 2019**
Reference:	**GS-6476607**
Client:	**Resource & Environmental Consultants Ltd REC**

NW N NE

W E

SW S SE



Aerial Photograph Capture date:	26-Mar-2012
Grid Reference:	377968,411667
Site Size:	27.5292ha

Report Reference: GS-6476607
Client Reference: 107765_Walshaw_Road_PO7772

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Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	20	22	62	37
1.2 Additional Information – Historical Tank Database	3	0	33	27
1.3 Additional Information – Historical Energy Features Database	0	0	17	22
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	6	12
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	24	37	52	69

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	1
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	1	0
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	3
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	1	0	1	5	6
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	1
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	1	0	0	2	4
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	1	1

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	1	28	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	1
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site	Identified
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site	Identified

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	2	0	3	17
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	3	10	12
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	0	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

	0-500m					
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	Yes	No	No	No	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	30	18	18	52	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Enviroment Agency Zone 2 floodplains within 250m of the study site	None identified
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	None identified
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low
7.4 Flood Defences within 250m of the study site	None identified
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified
7.6 Areas used for Flood Storage within 250m of the study site	None identified
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Potential at Surface
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	Low

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	3	2
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	1	1	0	0	0	9

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence	Moderate
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Very Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Moderate
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	None identified
10.3 Brine affected areas within 75m of the study site	None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

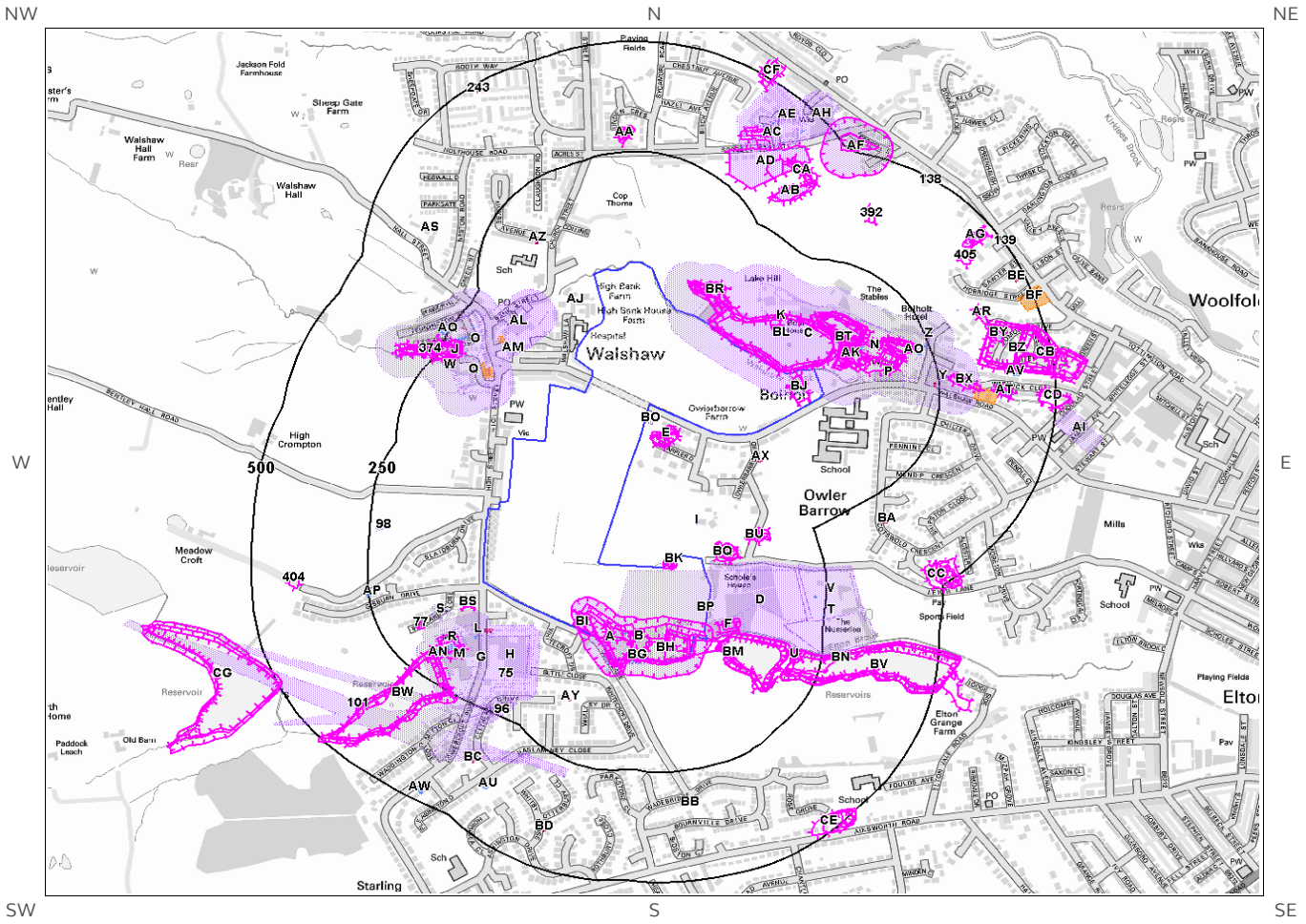
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Historical military sites

Tanks

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 141

ID	Distance [m]	Direction	Use	Date
1B	0	On Site	Sewage Works Air Compressing Station	1956
2A	0	On Site	Unspecified Heap	1938
3A	0	On Site	Refuse Heap	1927
4B	0	On Site	Unspecified Works	1974
5B	0	On Site	Unspecified Works	1969
6B	0	On Site	Unspecified Disused Works	1980
7A	0	On Site	Unspecified Heap	1974
8A	0	On Site	Unspecified Heap	1980
9A	0	On Site	Unspecified Heap	1969
10C	0	On Site	Print Works	1909
11C	0	On Site	Print Works	1891
12C	0	On Site	Print Works	1928
13D	0	On Site	Nursery	1908
14D	0	On Site	Nursery	1927
15BI	0	On Site	Refuse Heap	1908
16BP	0	On Site	Nursery	1890
17D	0	On Site	Nursery	1938
18B	0	On Site	Sewage Works	1938
19B	0	On Site	Sewage Works	1927
20C	0	On Site	Print Works	1938
21BO	3	E	Pump House	1938
22D	8	E	Nursery	1969
23D	8	E	Nursery	1956
24D	8	E	Nursery	1974
25E	21	E	Unspecified Heap	1891
26E	27	E	Unspecified Heap	1938
27E	27	E	Unspecified Heap	1928
28E	27	E	Unspecified Heap	1909
29F	28	E	Disused Filter Beds	1938
30F	29	E	Disused Filter Beds	1927
31F	29	E	Filter Beds	1908
32E	29	SW	Unspecified Heap	1938
33G	34	SW	Unspecified Works	1938

34G	34	SW	Unspecified Works	1927
35F	35	E	Disused Filter Beds	1956
36N	36	E	Unspecified Works	1969
37E	37	SW	Unspecified Old Shaft	1891
38E	37	SW	Old Coal Shaft	1909
39E	37	E	Unspecified Ground Workings	1956
40H	38	SW	Unspecified Commercial/Industrial	1980
41H	38	SW	Unspecified Warehouses	1974
42G	47	SW	Unspecified Warehouses	1969
43AK	54	E	Filter Beds	1909
44G	58	SW	Unspecified Mill	1908
45G	59	SW	Unspecified Mill	1890
46AL	69	NW	Unspecified Depot	1980
47I	74	N	Unspecified Tank	1928
48I	76	N	Unspecified Tank	1938
49M	78	SW	Unspecified Works	1956
50J	78	N	Unspecified Mills	1928
51J	78	N	Cotton Mills	1909
52K	94	NE	Boat House	1938
53K	95	NE	Boat House	1928
54K	96	NE	Boat House	1909
55S	97	SW	Unspecified Works	1969
56L	99	SW	Chimney	1974
57L	99	SW	Chimney	1969
58M	103	SW	Unspecified Mill	1980
59G	103	SW	Unspecified Warehouses	1974
60N	104	NE	Unspecified Works	1974
61K	104	NE	Boat House	1956
62Q	110	N	Unspecified Mill	1956
63O	113	NW	Unspecified Depot	1974
64O	113	NW	Unspecified Depot	1969
65P	114	E	Unspecified Works	1980
66P	118	E	Mills	1851
67J	119	NW	Unspecified Mill	1891
68R	119	SW	Unspecified Tanks	1956
69O	127	W	Unspecified Mills	1938
70Q	130	NW	Unspecified Tank	1956
71R	136	SW	Unspecified Warehouses	1980
72M	139	SW	Unspecified Mill	1851
73J	151	NW	Unspecified Mills	1956
74W	153	NW	Unspecified Mill	1928
75	161	SW	Chimney	1969
76S	161	SW	Unspecified Tank	1938
77	161	SW	Unspecified Tank	1927

78T	166	E	Nurseries	1890
79T	167	E	Nurseries	1927
80T	167	E	Nursery	1908
81T	167	E	Nurseries	1938
82J	168	NW	Cotton Mill	1851
83Y	173	E	Print Works	1956
84AN	183	SW	Unspecified Tanks	1938
85U	185	E	Filter Bed	1938
86U	185	E	Filter Bed	1927
87O	187	NW	Unspecified Works	1974
88O	187	NW	Unspecified Works	1969
89O	187	NW	Unspecified Works	1980
90U	190	E	Filter Bed	1956
91V	194	E	Nurseries	1969
92V	194	E	Nurseries	1974
93V	194	E	Nurseries	1980
94V	194	E	Nurseries	1956
95W	204	NW	Unspecified Mill	1938
96	204	SW	Rifle Range	1908
97J	205	W	Unspecified Tank	1851
98	206	W	Smithy	1851
99X	207	SW	Disused Rifle Range	1938
100X	207	SW	Disused Rifle Range	1927
101	207	SW	Rifle Range	1890
102Y	218	E	Unspecified Works	1969
103Y	226	E	Unspecified Works	1980
104Y	226	E	Unspecified Works	1974
105Z	252	E	Chimney	1974
106Z	252	E	Chimney	1969
107AA	270	N	Unspecified Pit	1938
108AD	272	NE	Brick Field	1851
109AA	277	N	Unspecified Pit	1928
110AA	279	N	Unspecified Pit	1956
111AB	297	NE	Unspecified Pit	1928
112AB	311	NE	Unspecified Pit	1956
113AC	333	NE	Cotton Mill	1909
114AC	333	NE	Unspecified Mill	1928
115AD	333	NE	Sand Pit	1851
116AC	333	NE	Unspecified Mill	1938
117AE	335	NE	Unspecified Mills	1891
118AC	346	NE	Unspecified Mill	1956
119AC	349	NE	Unspecified Mill	1974
120AC	349	NE	Unspecified Mill	1980
121AC	349	NE	Unspecified Mill	1969
122AR	365	E	Unspecified Pit	1891
123BY	387	E	Unspecified Pit	1891

124AE	414	NE	Unspecified Mill	1851
125AG	424	NE	Unspecified Pit	1891
126AE	427	NE	Chimney	1969
127AE	427	NE	Chimney	1980
128AE	427	NE	Chimney	1974
129AF	432	NE	Brick Field	1928
130AF	432	NE	Brick Field	1909
131AE	438	NE	Unspecified Tank	1851
132AG	441	NE	Unspecified Pit	1909
133AH	451	NE	Unspecified Works	1969
134AH	451	NE	Unspecified Works	1980
135AH	451	NE	Unspecified Works	1974
136AG	452	NE	Unspecified Pit	1938
137AF	488	NE	Brick Field	1956
138	489	NE	Pump	1851
139	492	NE	Smithy	1851
140AI	500	E	Timber Yard	1928
141AI	500	E	Timber Yard	1909

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 63

ID	Distance (m)	Direction	Use	Date
142A	0	On Site	Settling Tanks	1930
143A	0	On Site	Settling Tanks	1939
144BG	0	On Site	Settling Tanks	1939
145AJ	55	W	Unspecified Tank	1975
146AJ	55	W	Unspecified Tank	1998
147AJ	56	W	Unspecified Tank	1989
148AJ	56	W	Unspecified Tank	1989
149AJ	56	W	Unspecified Tank	1989
150I	75	N	Unspecified Tank	1930
151AK	109	NE	Tanks	1930
152AM	110	NW	Unspecified Tank	1975
153L	112	SW	Unspecified Tank	1890
154AL	115	NW	Unspecified Tank	1975
155AM	124	NW	Unspecified Tank	1959
156AM	124	NW	Unspecified Tank	1959
157AL	132	W	Unspecified Tank	1975
158M	144	SW	Settling Tank	1939

159AN	182	SW	Tanks	1939
160O	208	NW	Unspecified Tank	1890
161O	209	NW	Tanks	1989
162O	209	NW	Tanks	1989
163O	209	NW	Tanks	1989
164O	209	NW	Tanks	1975
165AO	211	E	Unspecified Tank	1891
166O	221	NW	Tanks	1975
167AO	222	E	Unspecified Tank	1990
168V	223	E	Unspecified Tank	1959
169V	226	E	Unspecified Tank	1992
170V	226	E	Unspecified Tank	1975
171V	226	E	Unspecified Tank	1959
172AP	234	W	Tanks	1959
173AP	234	W	Tanks	1959
174AO	240	E	Unspecified Tank	1890
175T	248	E	Unspecified Tank	1992
176T	248	E	Unspecified Tank	1975
177AQ	249	NW	Tanks	1975
178AQ	254	NW	Tanks	1989
179AQ	254	NW	Tanks	1989
180AQ	254	NW	Tanks	1989
181AQ	255	NW	Tanks	1975
182AQ	255	NW	Tanks	1975
183AQ	258	NW	Tanks	1975
184Y	266	E	Tanks	1930
185AQ	272	NW	Tanks	1975
186AR	334	NE	Unspecified Tank	1891
187AR	337	NE	Unspecified Tank	1891
188AS	367	W	Unspecified Tank	1959
189AS	367	W	Unspecified Tank	1992
190AS	368	W	Unspecified Tank	1959
191AT	369	E	Settling Tanks	1930
192AT	382	E	Unspecified Tank	1891
193AU	385	SW	Tanks	1956
194AU	386	SW	Tanks	1969
195AU	386	SW	Tanks	1956
196AV	407	E	Unspecified Tank	1978
197AV	408	E	Unspecified Tank	1967
198AV	408	E	Unspecified Tank	1959
199AV	409	E	Unspecified Tank	1959
200AC	420	NE	Unspecified Tank	1890
201AC	420	NE	Unspecified Tank	1910
202AE	447	NE	Unspecified Tank	1890
203AW	470	SW	Tanks	1956
204AW	470	SW	Tanks	1956

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 39

ID	Distance (m)	Direction	Use	Date
205AX	58	S	Electricity Substation	1975
206AX	59	S	Electricity Substation	1992
207L	81	SW	Electricity Substation	1974
208L	81	SW	Electricity Substation	1992
209AY	127	SW	Electricity Substation	1977
210AY	127	SW	Electricity Substation	1993
211AY	127	SW	Electricity Substation	1994
212AY	128	SW	Electricity Substation	1981
213AZ	139	NW	Electricity Substation	1998
214AZ	139	NW	Electricity Substation	1975
215AZ	140	NW	Electricity Substation	1989
216AZ	140	NW	Electricity Substation	1989
217AZ	140	NW	Electricity Substation	1989
218O	225	NW	Electricity Substation	1998
219Y	237	E	Electricity Substation	1993
220Y	237	E	Electricity Substation	1996
221Y	238	E	Electricity Substation	1990
222BA	309	SE	Electricity Substation	1975
223BA	309	SE	Electricity Substation	1992
224BB	327	S	Electricity Substation	1995
225BB	327	S	Electricity Substation	1996
226BC	362	SW	Electricity Substation	1977
227BC	363	SW	Electricity Substation	1981
228BC	363	SW	Electricity Substation	1993
229BC	363	SW	Electricity Substation	1994
230BD	411	S	Electricity Substation	1977
231BD	411	S	Electricity Substation	1981
232BD	412	S	Electricity Substation	1993
233BD	412	S	Electricity Substation	1994
234BE	474	NE	Electricity Substation	1990
235BE	475	NE	Electricity Substation	1996
236BE	475	NE	Electricity Substation	1993
237BE	476	NE	Electricity Substation	1988
238BE	476	NE	Electricity Substation	1985
239BE	476	NE	Electricity Substation	1988

240BE	476	NE	Electricity Substation	1978
241BE	476	NE	Electricity Substation	1987
242BE	477	NE	Electricity Substation	1967
243	479	NW	Electricity Substation	1992

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 18

ID	Distance (m)	Direction	Use	Date
244Q	124	W	Garage	1989
245Q	124	W	Garage	1989
246Q	124	W	Garage	1989
247Q	136	W	Garage	1975
248AM	138	NW	Garage	1959
249AM	138	NW	Garage	1959
250AT	324	E	Garage	1967
251AT	324	E	Garage	1990
252AT	324	E	Garage	1978
253AT	324	E	Garage	1988
254AT	324	E	Garage	1988
255AT	324	E	Garage	1985
256AT	324	E	Garage	1987
257AT	324	E	Garage	1993
258AT	324	E	Garage	1996
259BF	464	E	Garage	1990
260BF	465	E	Garage	1993
261BF	465	E	Garage	1996

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 182

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
262BG	0	On Site	Unspecified Heap	1969
263B	0	On Site	Sewage Works	1927
264BH	0	On Site	Reservoirs	1938
265BH	0	On Site	Reservoirs	1927
266BH	0	On Site	Reservoirs	1956
267BI	0	On Site	Refuse Heap	1908
268A	0	On Site	Refuse Heap	1927
269A	0	On Site	Unspecified Heap	1938
270C	0	On Site	Water Bodies	1851
271A	0	On Site	Unspecified Heap	1974
272A	0	On Site	Unspecified Heap	1980
273B	0	On Site	Sewage Works Air Compressing Station	1956
274B	0	On Site	Sewage Works	1938
275BH	0	On Site	Reservoirs	1908
276BJ	0	On Site	Ponds	1928
277BJ	0	On Site	Ponds	1938
278BK	0	On Site	Reservoir	1956
279BK	0	On Site	Reservoir	1938
280BK	0	On Site	Reservoir	1928
281BM	0	On Site	Reservoirs	1890
282BH	0	On Site	Pond	1969
283BH	0	On Site	Reservoir	1980
284BH	0	On Site	Pond	1974
285BL	0	On Site	Reservoirs	1938
286K	1	NE	Reservoirs	1928
287K	1	NE	Reservoirs	1909

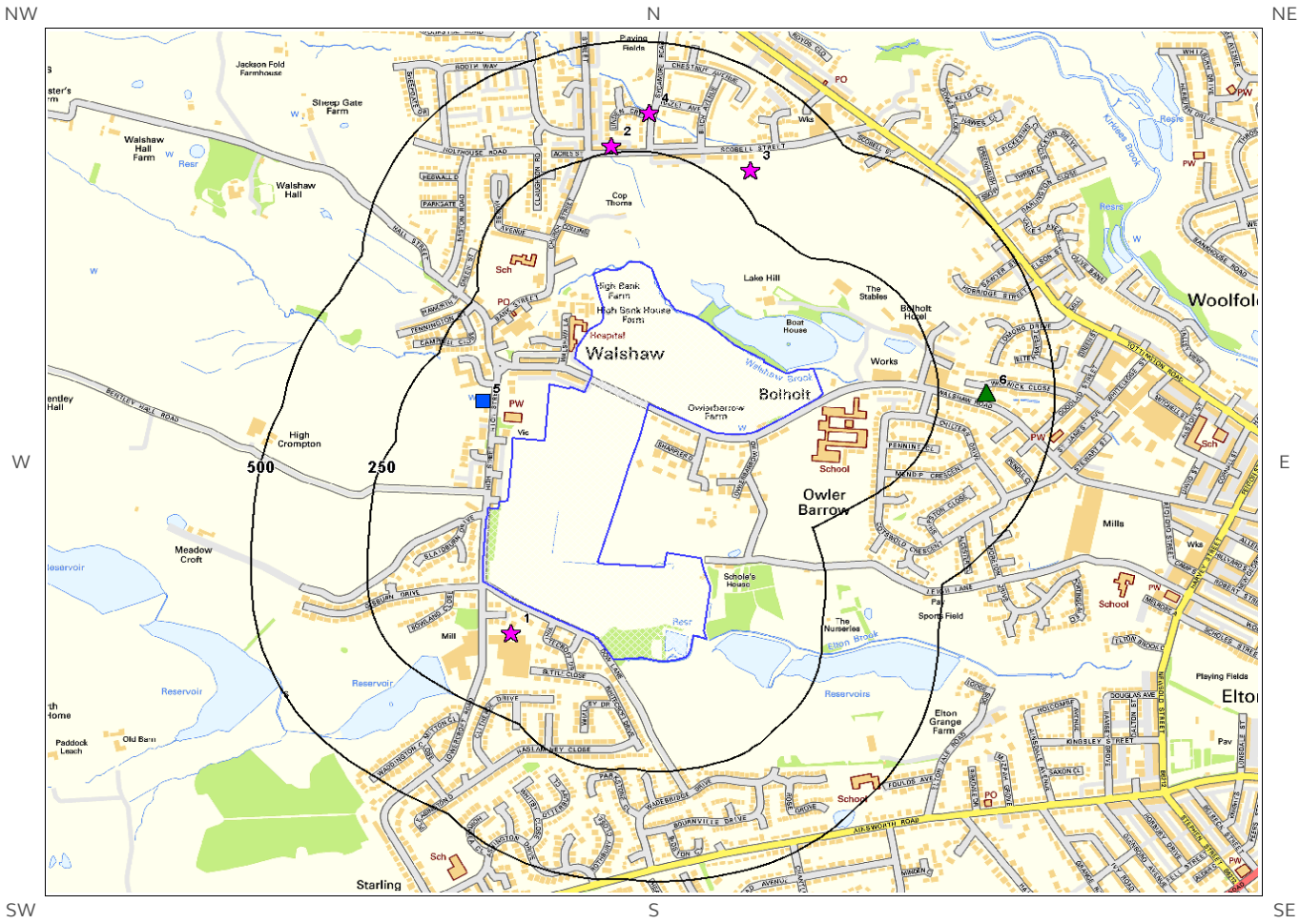
288K	1	NE	Reservoir	1891
289BL	6	N	Pond	1974
290BL	6	N	Reservoirs	1956
291BL	6	N	Pond	1980
292BL	6	N	Pond	1969
293BM	19	E	Pond	1851
294E	21	E	Unspecified Heap	1891
295BN	25	SE	Reservoirs	1974
296BN	25	SE	Reservoirs	1980
297BN	25	SE	Ponds	1969
298BM	27	SE	Reservoir	1927
299BM	27	SE	Reservoir	1908
300BM	27	SE	Reservoir	1938
301E	27	E	Unspecified Heap	1938
302E	27	E	Unspecified Heap	1909
303E	27	E	Unspecified Heap	1928
304BM	28	SE	Reservoir	1956
305F	28	E	Disused Filter Beds	1938
306F	29	E	Filter Beds	1908
307F	29	E	Disused Filter Beds	1927
308BO	29	SW	Unspecified Heap	1938
309BQ	31	E	Pond	1851
310BP	35	E	Disused Filter Beds	1956
311BO	37	SW	Unspecified Old Shaft	1891
312BO	37	SW	Old Coal Shaft	1909
313E	37	E	Unspecified Ground Workings	1956
314BT	39	E	Ponds	1928
315AK	41	E	Ponds	1938
316BQ	42	NE	Ponds	1891
317BR	44	NE	Reservoirs	1956
318BR	44	NE	Pond	1969
319BQ	46	E	Pond	1928
320BQ	46	E	Pond	1909
321BR	47	NE	Pond	1980
322BQ	47	E	Pond	1938
323BS	53	SW	Reservoirs	1938
324BS	53	SW	Reservoirs	1927
325BT	54	E	Reservoirs	1956
326AK	54	E	Filter Beds	1909
327BT	57	NE	Ponds	1891
328AK	69	E	Ponds	1938
329BT	83	NE	Pond	1909
330AK	100	E	Pond	1980
331BT	100	NE	Pond	1980
332BT	100	NE	Pond	1974

333BT	100	NE	Pond	1969
334BU	105	NE	Pond	1851
335BU	119	NE	Pond	1909
336BU	120	NE	Pond	1891
337AN	128	SW	Reservoirs	1938
338AN	128	SW	Reservoirs	1927
339AN	128	SW	Reservoirs	1890
340AN	128	SW	Reservoirs	1908
341AO	133	E	Reservoirs	1938
342AO	135	E	Reservoirs	1928
343AO	135	E	Reservoirs	1909
344AO	145	E	Reservoirs	1956
345BW	145	SW	Water Bodies	1851
346AO	151	NE	Pond	1891
347AO	161	E	Ponds	1969
348AO	161	E	Ponds	1974
349S	161	SW	Reservoirs	1908
350AO	165	E	Pond	1980
351BV	178	SE	Reservoir	1938
352BV	178	SE	Reservoir	1927
353BV	178	SE	Reservoir	1908
354BV	178	SE	Water Bodies	1851
355BV	179	SE	Reservoir	1890
356BV	181	SE	Reservoir	1956
357U	185	E	Filter Bed	1938
358U	185	E	Filter Bed	1927
359BW	189	SW	Reservoir	1969
360BW	189	SW	Reservoir	1974
361BW	189	SW	Reservoir	1980
362U	190	E	Filter Bed	1956
363BW	200	SW	Reservoir	1908
364BW	200	SW	Reservoir	1927
365BW	200	SW	Reservoir	1890
366BW	200	SW	Reservoir	1938
367BW	201	SW	Reservoir	1956
368J	202	W	Reservoirs	1938
369J	203	W	Reservoirs	1956
370J	207	W	Reservoir	1980
371J	212	W	Reservoirs	1928
372J	212	W	Reservoirs	1909
373J	218	W	Ponds	1891
374	221	W	Pond	1851
375AA	270	N	Unspecified Pit	1938
376AD	272	NE	Brick Field	1851
377BX	272	E	Pond	1938
378BX	273	E	Pond	1928

379AA	277	N	Unspecified Pit	1928
380AA	279	N	Unspecified Pit	1956
381AB	297	NE	Unspecified Pit	1928
382AB	311	NE	Unspecified Pit	1956
383AD	333	NE	Sand Pit	1851
384BZ	340	E	Reservoirs	1938
385BY	340	E	Reservoirs	1909
386BZ	340	E	Reservoirs	1928
387AC	351	NE	Ponds	1891
388AC	351	NE	Reservoirs	1928
389AC	351	NE	Reservoirs	1909
390AC	351	NE	Reservoirs	1938
391BZ	354	E	Reservoirs	1956
392	354	N	Pond	1909
393BY	355	E	Ponds	1969
394BY	355	E	Reservoirs	1974
395BY	356	E	Reservoirs	1980
396AC	364	NE	Reservoirs	1956
397AR	365	E	Unspecified Pit	1891
398AT	367	E	Ponds	1938
399AT	370	E	Ponds	1928
400CA	376	NE	Ponds	1938
401CA	379	NE	Ponds	1928
402BY	387	E	Unspecified Pit	1891
403CA	390	NE	Ponds	1956
404	397	W	Pond	1851
405	400	NE	Ponds	1891
406CB	419	E	Reservoirs	1891
407CB	419	E	Reservoirs	1909
408AG	424	NE	Unspecified Pit	1891
409AF	432	NE	Brick Field	1909
410AF	432	NE	Brick Field	1928
411AG	441	NE	Unspecified Pit	1909
412CB	442	E	Ponds	1851
413CC	444	SE	Pond	1851
414CC	447	SE	Pond	1928
415CC	447	SE	Pond	1938
416CC	447	SE	Pond	1909
417CC	447	SE	Pond	1891
418CC	451	SE	Pond	1956
419AG	452	NE	Unspecified Pit	1938
420CC	463	SE	Pond	1890
421CD	463	E	Ponds	1938
422CE	464	SE	Pond	1851
423CD	465	E	Ponds	1909
424CD	465	E	Ponds	1928

425CC	466	SE	Pond	1969
426CE	471	SE	Reservoir	1908
427CE	471	SE	Reservoir	1938
428CE	471	SE	Reservoir	1890
429CE	471	SE	Reservoir	1927
430CE	474	SE	Reservoir	1956
431CF	478	NE	Reservoirs	1909
432CF	478	NE	Ponds	1891
433CE	478	SE	Pond	1980
434CE	478	SE	Pond	1974
435CE	478	SE	Pond	1969
436AF	488	NE	Brick Field	1956
437CG	489	SW	Reservoir	1980
438CG	489	SW	Reservoir	1969
439CG	489	SW	Reservoir	1974
440CF	491	NE	Pond	1851
441CG	497	SW	Reservoir	1956
442CB	498	E	Ponds	1938
443CG	499	SW	Reservoir	1890

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
6	352	E	378684 411615	Address: Hooshang Ghayouri, Walshaw Road Filling Station, Walshaw Road, BL8 1PY Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

1

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
5	107	NW	377600 411600	Address: DUSSEK CAMPBELL LTD, NEWHIVE WORKS, WALSHAW, BURY, GREATER MANCHESTER Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016990436 Permit Version: 1	Receiving Water: WALSHAW BROOK Status: REVOKED - UNSPECIFIED Issue date: Effective Date: 01-Sep-1983 Revocation Date: 13/02/1991

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

4

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	71	SW	377660.0 411073.0	Incident Date: 06-Nov-2001 Incident Identification: 41362.0 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
2	265	N	377875.0 412178.0	Incident Date: 15-Apr-2002 Incident Identification: 71385.0 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	308	NE	378176.0 412123.0	Incident Date: 02-Apr-2001 Incident Identification: 1322.0 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
4	340	N	377958.0 412255.0	Incident Date: 27-Jul-2001 Incident Identification: 19615.0 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)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

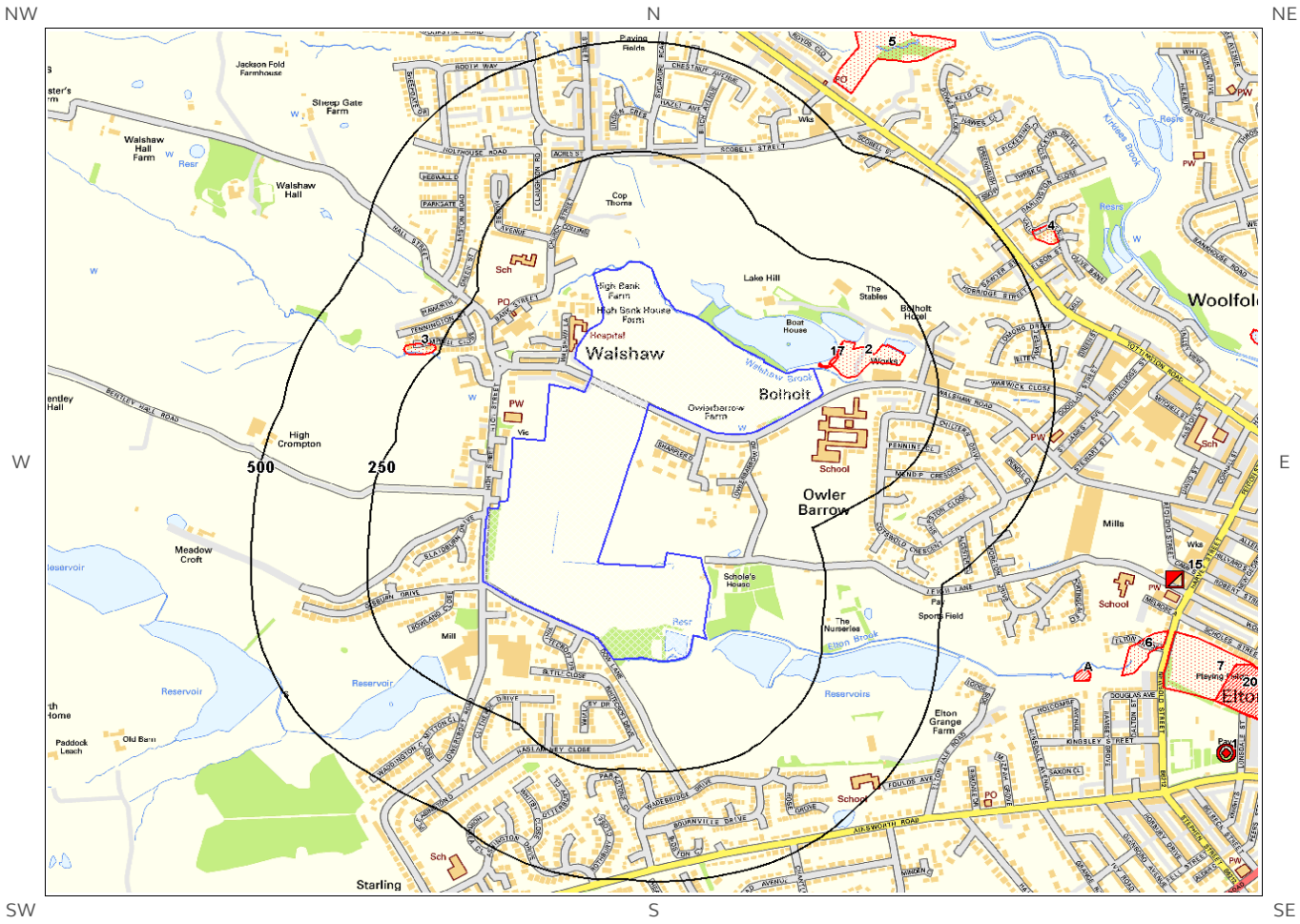
Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site	0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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Site Outline

250 500 Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

13

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
2	37	NE		Site Address: Bolholt Works, Walshaw Road, Bury Waste Licence: Yes Site Reference: RD/LIC/186/79, C016 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Jan-1980 Licence Surrendered: Licence Holder Address: 11 Whitelegge Street, Bury Operator: - Licence Holder: Mancunian Waste Company First Recorded: 31-Dec-1980 Last Recorded: 31-Dec-1984
3	258	W		Site Address: Newhive Works, Walshaw, Greater Manchester Waste Licence: - Site Reference: C119 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
4	562	NE		Site Address: Tottington, Bury Waste Licence: Yes Site Reference: C055, RD/LIC/208/80 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 03-Feb-1981 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: G and J Seddon Limited First Recorded: 01-Mar-1981 Last Recorded: 31-Dec-1986
5	579	NE		Site Address: Bury Road, Tottington, Greater Manchester Waste Licence: - Site Reference: C121 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: 31-Dec-1875 Last Recorded: 31-Dec-1977
6	876	SE		Site Address: Land off Newbold Street,	Licence Issue: 12-Sep-1984

ID	Distance (m)	Direction	NGR	Details	
				Newbold Street, Bury Waste Licence: Yes Site Reference: RD/LIC/0752/91, C015, RD/LIC/357/84, 4200/9727 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Surrendered: 19-Jun-1991 Licence Holder Address: 29, Pickering Close, Woolfold, Bury Operator: - Licence Holder: Cooke, Simm and Bentley First Recorded: 01-Oct-1984 Last Recorded: 31-Dec-1988
7	932	SE		Site Address: King George V Playing Fields, Elton, Bury, Greater Manchester Waste Licence: Yes Site Reference: C050 Waste Type: Inert, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Jan-1974 Licence Surrendered: Licence Holder Address: - Operator: County Borough of Bury Cleansing Department Licence Holder: Bury Metropolitan Borough Council First Recorded: 31-Dec-1967 Last Recorded: 01-Jun-1974
8	932	E		Site Address: Woolfold paper Mills, Tottington Road, Bury Waste Licence: Yes Site Reference: 0226, RD/LIC/080/77 Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 06-Nov-1979 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: Olive's Paper Mill Company Limited First Recorded: 31-Dec-1950 Last Recorded: 02-Apr-1986
Not shown	1109	E		Site Address: Woolfold Paper Mills, Tottington, Bury Waste Licence: Yes Site Reference: C005b, RD/LIC/080/77 , 0226 Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 06-Nov-1979 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: Olive's Paper Mill Company Limited First Recorded: 31-Dec-1950 Last Recorded: 02-Apr-1986
Not shown	1292	E		Site Address: Land South of Cricket Ground, Woolfold, Bury Waste Licence: - Site Reference: WML/0451 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1301	SE		Site Address: Ainsworth Road, Gasworks, off Ainsworth Road, Bury Waste Licence: Yes Site Reference: RD/LIC/158/78, C001 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 14-Dec-1978 Licence Surrendered: Licence Holder Address: British Gas Corporation, North West Region Operator: - Licence Holder: P R Smith First Recorded: 31-Dec-1976 Last Recorded: 31-Dec-1990
Not shown	1313	E		Site Address: Elton Works, Victoria Street, Bury Waste Licence: Yes Site Reference: RD/LIC/345/84, C058 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Oct-1984 Licence Surrendered: 01-Apr-1985 Licence Holder Address: Regional Solicitor, Welman House, Altrincham Operator: - Licence Holder: British Gas Corporation First Recorded: 01-Nov-1984 Last Recorded: 01-Apr-1985
Not shown	1347	SW		Site Address: Delph Lodge, Ainsworth, Greater Manchester Waste Licence: - Site Reference: C086 Waste Type: Industrial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not	1460	S		Site Address: Disused Bury-Bolton	Licence Issue: 16-Jan-1979

ID	Distance (m)	Direction	NGR	Details	
shown				Railway line, East Of, Ainsworth Road, Radcliffe, Greater Manchester Waste Licence: Yes Site Reference: C036, RD/LIC/163/78, RD/LIC/159/78 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Surrendered: 11-Mar-1996 Licence Holder Address: 1 Buckingham Drive, Bury Operator: - Licence Holder: D J Barlow First Recorded: 28-Feb-1979 Last Recorded: 31-Dec-1989

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
1	1148	E	379200.0 410800.0	Address: King George V Playing Fields, Ainsworth Rd, Bury BGS Number: 1085.0	Risk: Risk to minor aquifer Waste Type: N/A

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

7

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
17	14	NE	378365 411704	Refuse Tip	1974 mapping	Polygon
18A	797	E	378892 410976	Refuse Tip	1968 mapping	Polygon
19A	798	E	378891 410975	Refuse Tip	1963 mapping	Polygon
20	1081	SE	379290 410889	Refuse Tip	1974 mapping	Polygon
Not shown	1151	E	379488 411486	Refuse Tip	1995 mapping	Polygon
Not shown	1371	SW	376540 410274	Refuse Tip	1963 mapping	Polygon
Not shown	1393	SW	376481 410303	Refuse Tip	1965 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

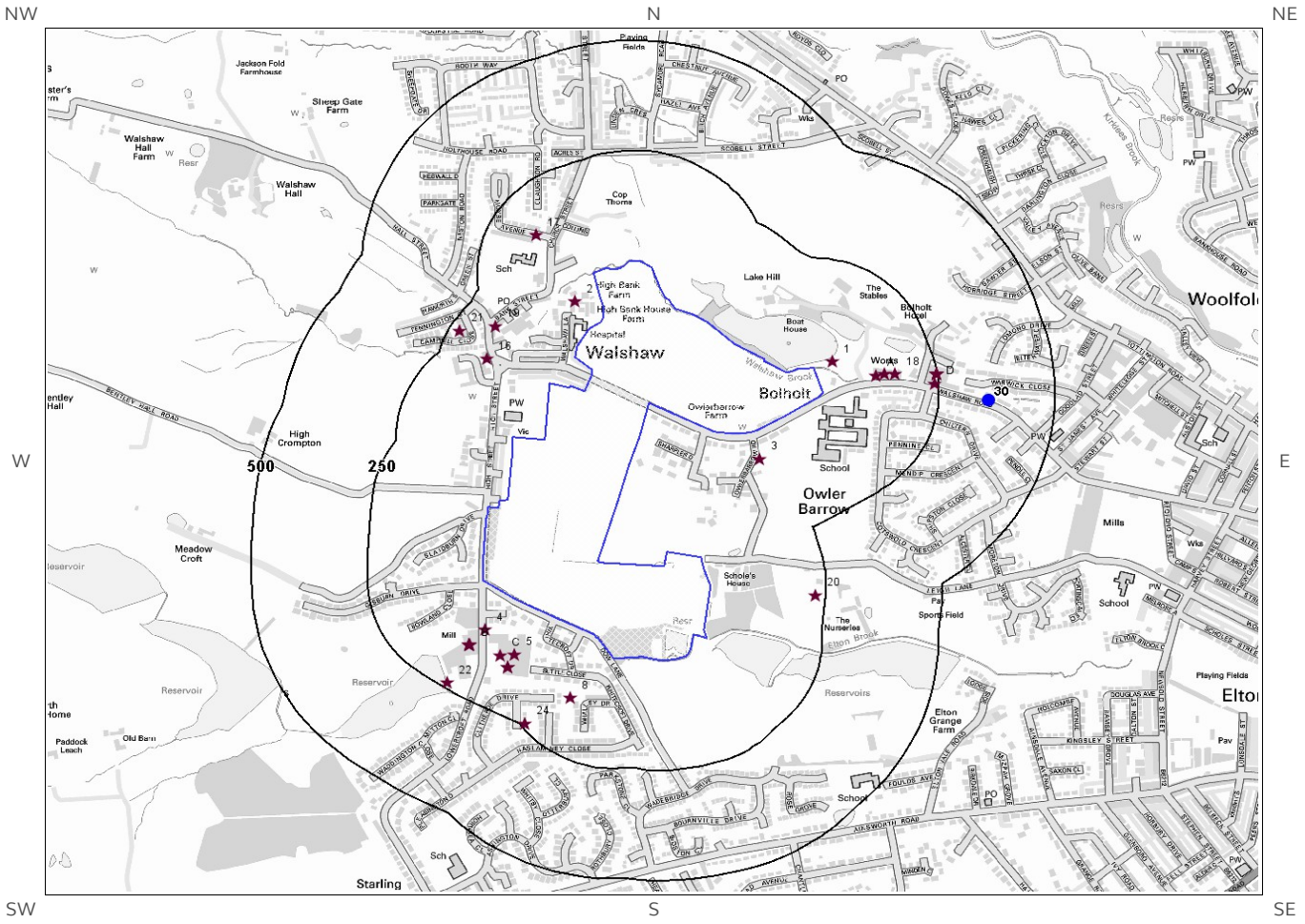
2

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
15	866	SE	379089 411195	Site Address: Unit F Bonmore Industrial Centre, Leigh Lane, Bury, Lancashire, BL8 1NR Type: Vehicle Depollution Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLU002 EPR reference: EA/EPR/EB3009CB/A001 Operator: Club 500 Italia Limited Waste Management licence No: 403221 Annual Tonnage: 4999.0	Issue Date: 25/08/2016 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Club 500 Italia Limited Correspondence Address: -
Not shown	1097	N	377519 412940	Site Address: 10, Spring Vale Street, Tottington, Bury, Lancashire, BL8 3LR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MET001 EPR reference: EA/EPR/GP3892CA/T001 Operator: Metcalfe Demolition & Skip Hire Ltd Waste Management licence No: 53463 Annual Tonnage: 5000.0	Issue Date: 16/02/1999 Effective Date: 28/07/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Metcalfe Demolition & Skip Hire Ltd Correspondence Address: -

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4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 29

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	43	E	Refuse Tip	378353 411688	Greater Manchester, BL8	Refuse Disposal Facilities	Infrastructure and Facilities
2	55	W	Tank	377799 411825	Greater Manchester, BL8	Tanks (Generic)	Industrial Features
3	63	S	Electricity Sub Station	378196 411467	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
4	93	SW	Electricity Sub Station	377604 411079	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
5	113	SW	R O Performance	377666 411023	Unit 2b Lowercroft Business Park, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Vehicle Repair, Testing and Servicing	Repair and Servicing
6A	122	E	Warehouse	378447 411657	Greater Manchester, BL8	Container and Storage	Transport, Storage and Delivery
7C	128	SW	Aardvark Automotive Ltd	377637 411021	Unit 2c Lowercroft Business Park, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Vehicle Repair, Testing and Servicing	Repair and Servicing
8	130	SW	Electricity Sub Station	377787 410924	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
9A	140	E	Works	378465 411660	Greater Manchester, BL8	Unspecified Works Or Factories	Industrial Features
10B	140	SW	Bolton Premier House Clearance Centre	377571 411044	Lowercroft Mill, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Clearance and Salvage Dealers	Recycling Services
11B	140	SW	Bur-low Engineering	377570 411044	Unit 3a Lowercroft Business Park, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Industrial Engineers	Engineering Services
12B	140	SW	Jon-son Motors	377570 411044	Unit 16 Lowercroft Mill, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Vehicle Repair, Testing and Servicing	Repair and Servicing
13B	140	SW	Paper 4 Print Ltd	377570 411044	Unit 1 Lowercroft Mill, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products
14C	146	SW	Glas Craft	377653 410993	Unit 5/B Lowercroft Business Park, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Glass Fibre Services	Industrial Products

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
15C	146	SW	Pacific Valve Co Ltd	377653 410993	Unit 2/B Lowercroft Business Park, Lowercroft Road, Bury, Greater Manchester, BL8 3PA	Seals, Tapes, Taps and Valves	Industrial Products
16	148	W	Works	377608 411694	Greater Manchester, BL8	Unspecified Works Or Factories	Industrial Features
17	151	NW	Electricity Sub Station	377715 411975	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
18	160	E	Works	378486 411660	Greater Manchester, BL8	Unspecified Works Or Factories	Industrial Features
19	176	NW	J T R Controls Ltd	377626 411768	2, Bank Street, Walshaw, Bury, Greater Manchester, BL8 3AZ	Precision Engineers	Engineering Services
20	226	E	Tank	378315 411157	Greater Manchester, BL8	Tanks (Generic)	Industrial Features
21	229	NW	Electricity Sub Station	377550 411758	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
22	238	SW	Pipeline	377523 410959	Greater Manchester, BL8	Pipelines	Industrial Features
23D	242	E	Electricity Sub Station	378573 411638	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities
24	242	SW	Warren Bowes Ltd	377689 410866	5, Skipton Close, Bury, Greater Manchester, BL8 2JX	Recycling, Reclamation and Disposal	Recycling Services
25D	247	E	Brighter Blinds Ltd	378575 411660	Unit 1 Bolholt Works, Walshaw Road, Bury, Greater Manchester, BL8 1DQ	Curtains and Blinds	Consumer Products
26D	247	E	Scottex Precision Textiles Ltd	378575 411660	Unit 1 Bolholt Industrial Park, Walshaw Road, Bury, Greater Manchester, BL8 1PL	Air and Water Filtration	Industrial Products
27D	247	E	Mats Direct UK Ltd	378575 411660	Unit 2 Bolholt Industrial Park, Walshaw Road, Bury, Greater Manchester, BL8 1PL	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
28D	247	E	Delta Batteries of Bury Ltd	378575 411660	Unit 3 Bolholt Industrial Park, Walshaw Road, Bury, Greater Manchester, BL8 1PL	Electrical Production and Manipulation Equipment	Industrial Products
29D	247	E	The Big Do Company Ltd	378575 411660	Unit 3 Bolholt Works, Walshaw Road, Bury, Greater Manchester, BL8 1DQ	Textiles, Fabrics, Silk and Machinery	Industrial Products

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
30	356	E	378688	UNBRANDED	310, Walshaw Road,	Not Applicable	Obsolete

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
			411599		Bury, Greater Manchester, BL8 1PY		

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

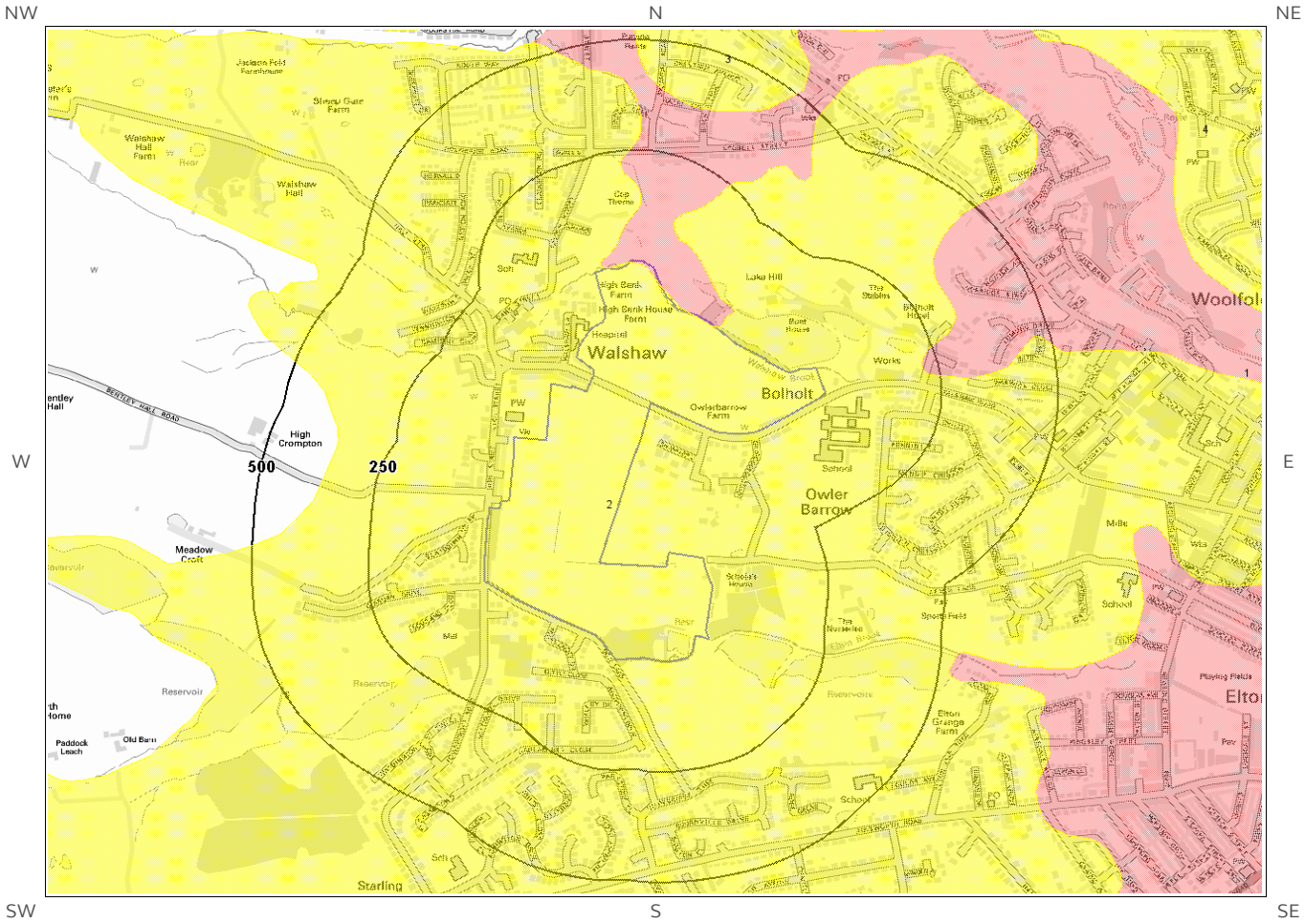
Lex Code	Description	Rock Type
OL-SDST	OLD LAWRENCE ROCK	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
OL-SDST	OLD LAWRENCE ROCK	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE)	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE)	SANDSTONE
TRBR-SDST	TRENCHERBONE ROCK	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION	SANDSTONE
CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE)	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

Lex Code	Description	Rock Type
CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE)	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE)	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
MLRS-SDST	MILNROW SANDSTONE	SANDSTONE
PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

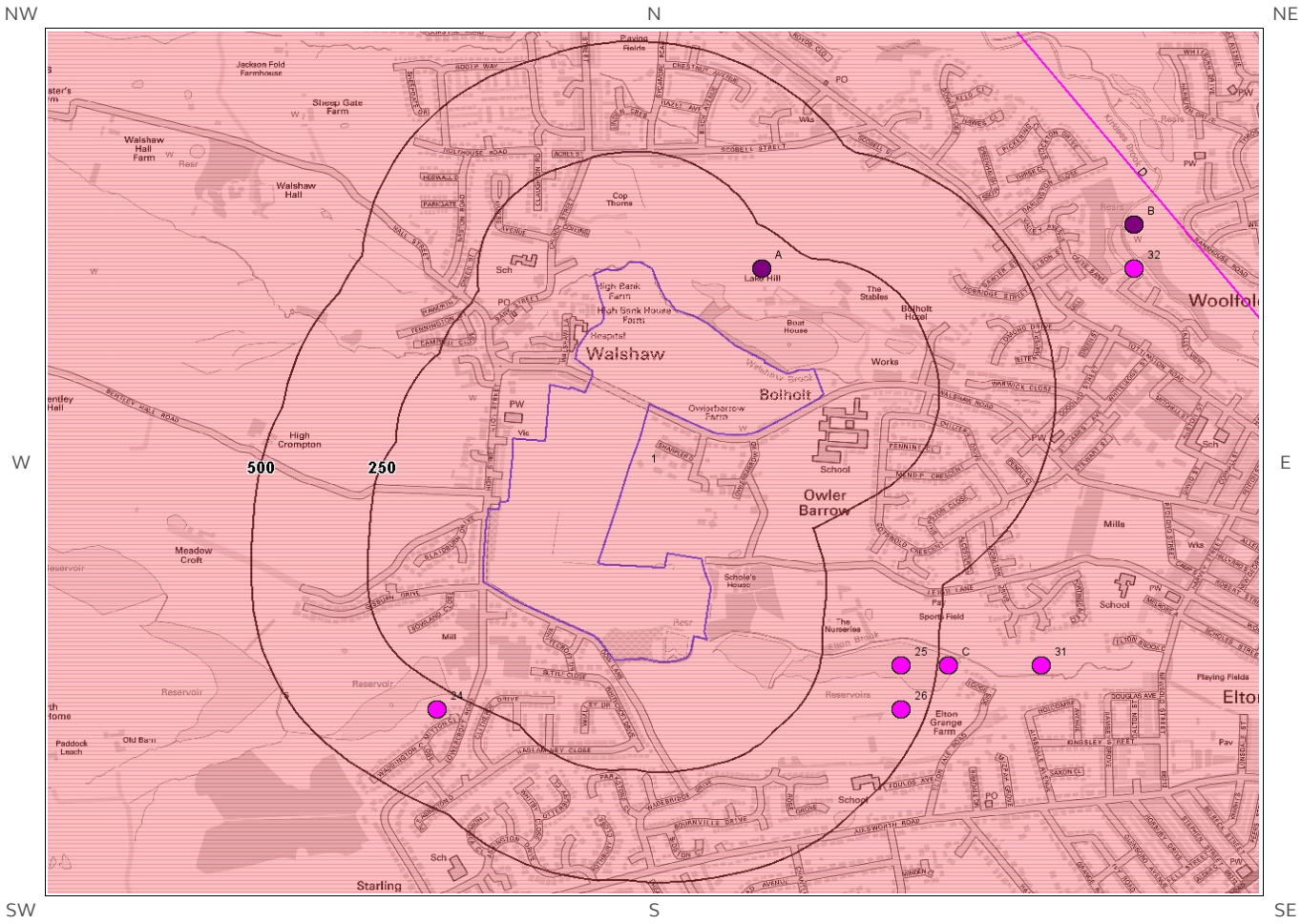
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licences



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

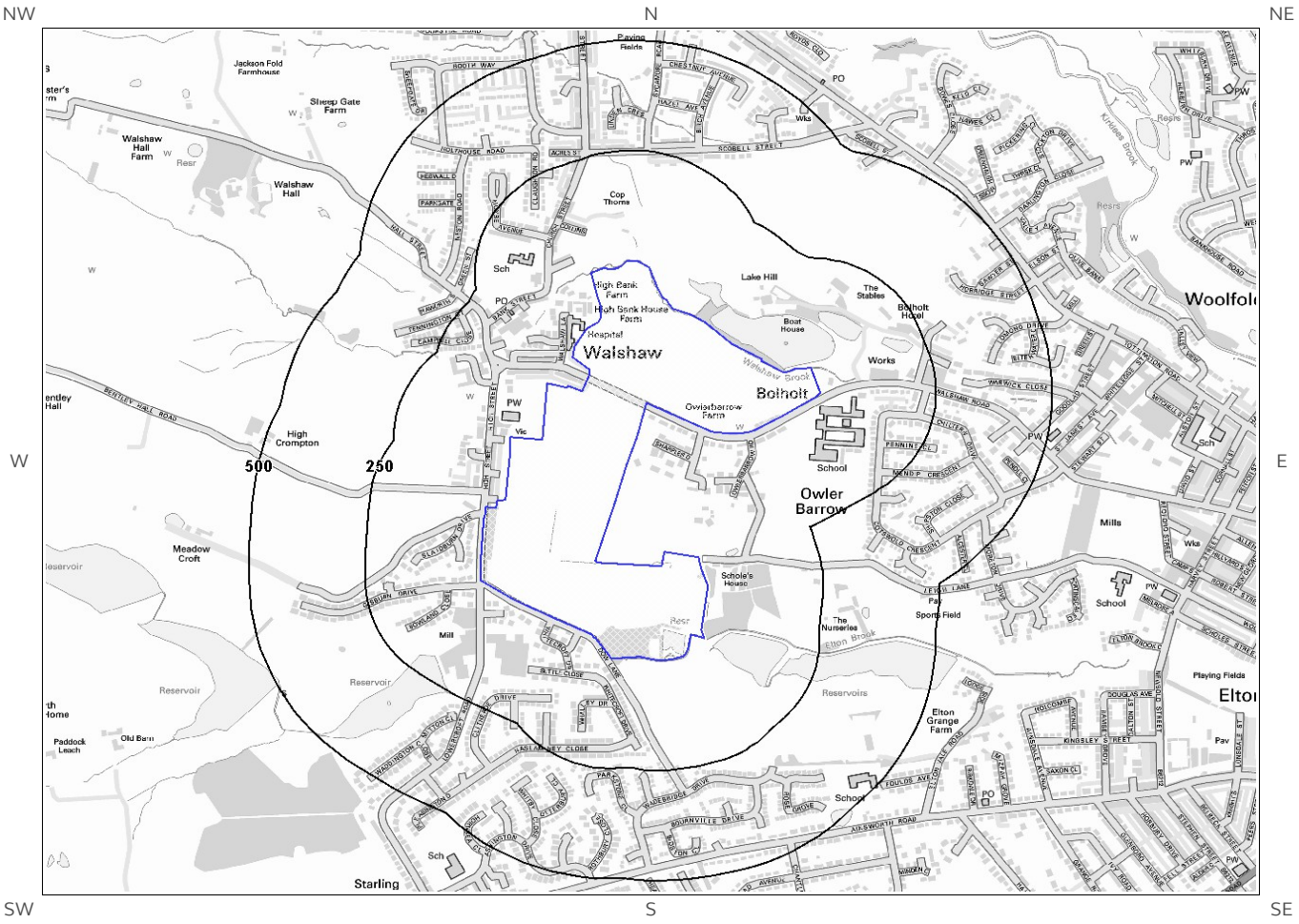
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

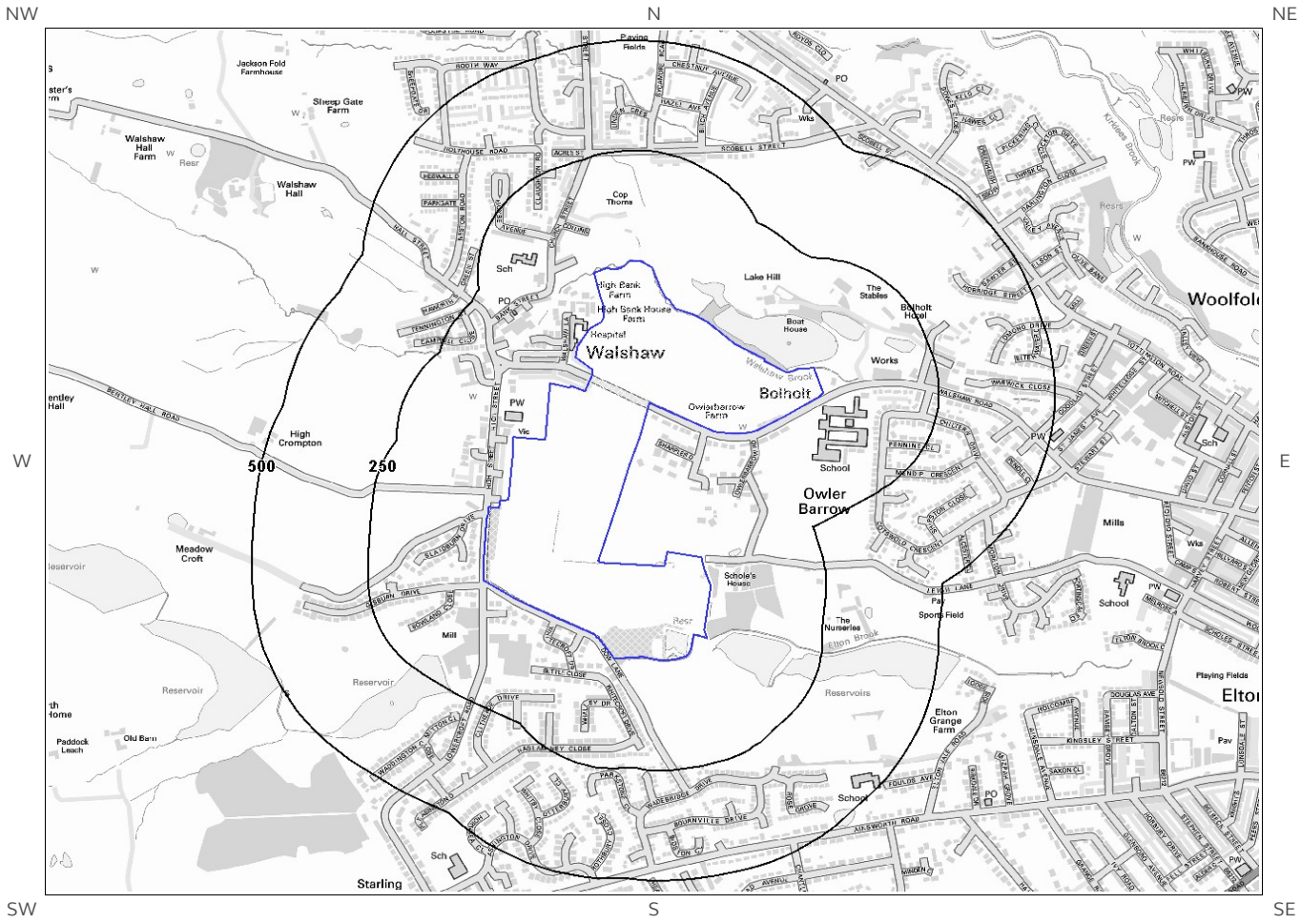
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

Site Outline

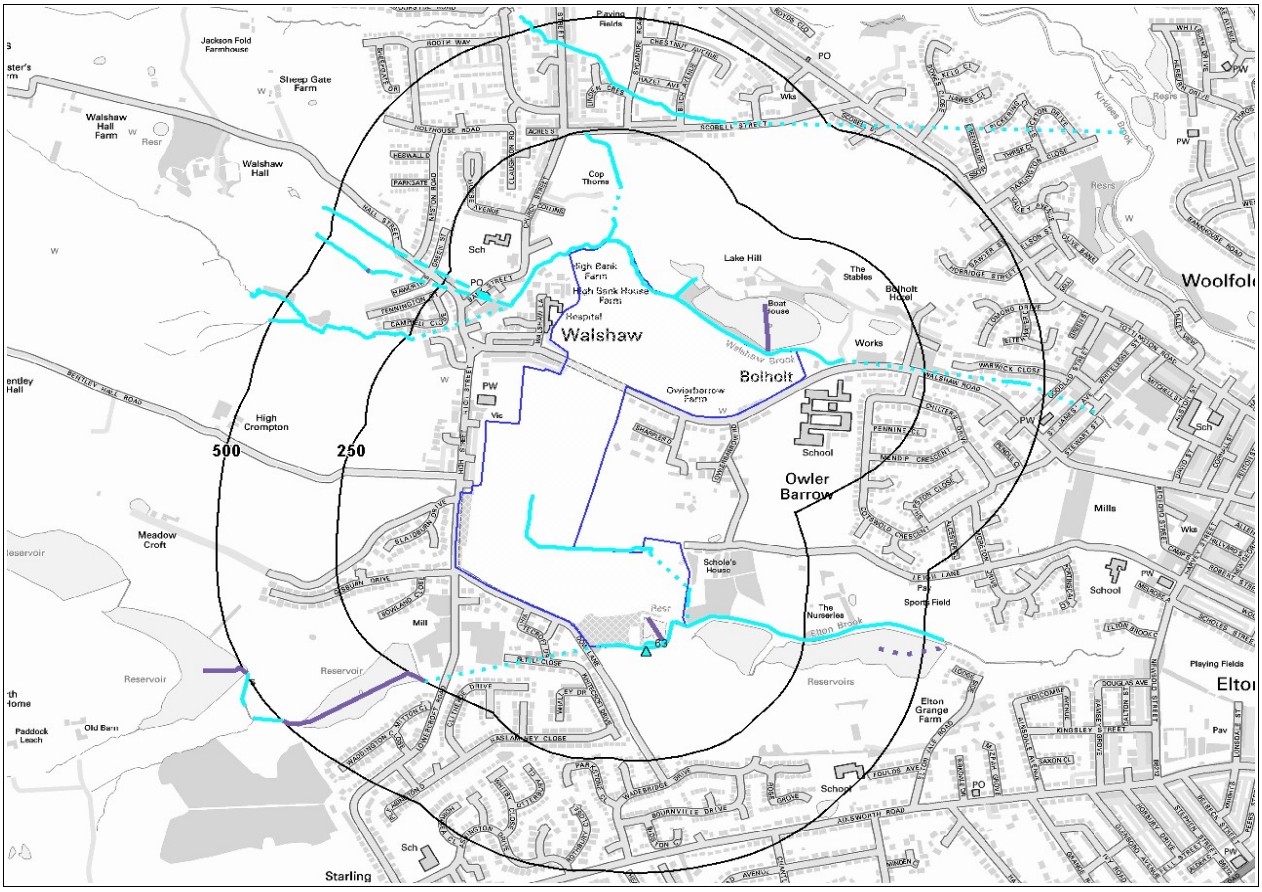
250
500
Search Buffers (m)

6e. Hydrology – Watercourse Network and River Quality

NW N NE

W E

SW S SE



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Site Outline

250
500
Search Buffers (m)

Watercourse type

- Tidal River
- Inland River
- Canal
- Lock or Flight of Locks
- Lake, Reservoir, or Marsh
- Foreshore
- Drain or Transfer

Watercourse level

- On ground surface
- Underground or Elevated
- Level unknown

- General Quality Assessment: Biology
- General Quality Assessment: Chemistry

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
3	368	N	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

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	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

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site — Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
2A	169	NE	378200 411900	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT BOLHOLT FARM, WALSHAW, BURY" Data Type: Point Name: HEYS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 10/02/1966 Version End Date:
3A	169	NE	378200 411900	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT BOLHOLT FARM, WALSHAW, BURY Data Type: Point Name: HEYS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 10/02/1966 Version End Date:
4B	761	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES,OLIVES PAPERMILLS, BURY Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 16/06/1995 Version End Date:
5B	761	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, OLIVES PAPERMILLS, BURY Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): 154,564 Max Daily Volume (m^3): 1,591 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 16/06/1995 Version End Date:
6B	761	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES,OLIVES PAPERMILLS, BURY" Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 16/06/1995 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1480	W	376200 411800	Status: Historical Licence No: 2569001177 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: B/HOLE , OLD HOLTS FARMROADING BROOK RD, HARWOOD, BOLTON Data Type: Point Name: MARSDEN	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 24/02/1969 Version End Date:
Not shown	1480	W	376200 411800	Status: Historical Licence No: 2569001177 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE , OLD HOLTS FARMROADING BROOK RD, HARWOOD, BOLTON" Data Type: Point Name: MARSDEN	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 24/02/1969 Version End Date:
Not shown	1545	NW	376260 412160	Status: Historical Licence No: 2569001248 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HEIGHTS BARN, FOUR LANE ENDS, TOTTINGTON Data Type: Point Name: MILLWARD ROGERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 08/09/1995 Version End Date:
Not shown	1545	NW	376260 412160	Status: Historical Licence No: 2569001248 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HEIGHTS BARN, FOUR LANE ENDS, TOTTINGTON" Data Type: Point Name: MILLWARD ROGERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 08/09/1995 Version End Date:
Not shown	1587	N	377820 413500	Status: Historical Licence No: 2569001253R1 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT EDWARD TURNBULL, TOTTINGTON, BURY Data Type: Point Name: EDWARD TURNBULL LTD	Annual Volume (m^3): 39,000 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 27/02/2009 Version End Date:
Not shown	1587	N	377820 413500	Status: Historical Licence No: 25/69/001/253/R02 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT EDWARD TURNBULL, TOTTINGTON, BURY Data Type: Point Name: Turnbull Prints Limited	Annual Volume (m^3): 39,000 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 01/04/2015 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1587	N	377820 413500	Status: Historical Licence No: 2569001253 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT STORMER HILL, TOTTINGTON Data Type: Point Name: EDWARD TURNBULL LTD	Annual Volume (m^3): 100,000 Max Daily Volume (m^3): 364 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 04/12/2007 Version End Date:
Not shown	1587	N	377820 413500	Status: Historical Licence No: 2569001253 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT STORMER HILL,TOTTINGTON Data Type: Point Name: EDWARD TURNBULL & CO LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 05/10/1998 Version End Date:
Not shown	1587	N	377820 413500	Status: Historical Licence No: 2569001253 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT STORMER HILL,TOTTINGTON" Data Type: Point Name: EDWARD TURNBULL & CO LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 05/10/1998 Version End Date:
Not shown	1587	N	377820 413500	Status: Active Licence No: 2569001253R02 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT EDWARD TURNBULL, TOTTINGTON, BURY Data Type: Point Name: Turnbull Prints Limited	Annual Volume (m^3): 39,000 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 01/04/2015 Version End Date:
Not shown	1814	NW	376700 413300	Status: Historical Licence No: 2569001113 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT STORMER HILL CLOSES FARM, TOTTINGTON, NR BURY" Data Type: Point Name: PETER & JANET HOYLE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 03/09/2000 Version End Date:
Not shown	1814	NW	376700 413300	Status: Historical Licence No: 2569001113 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT STORMER HILL CLOSES FARM, TOTTINGTON, NR BURY Data Type: Point Name: PETER & JANET HOYLE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 03/09/2000 Version End Date:
Not shown	1858	W	375790 410780	Status: Historical Licence No: 2569003089 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT ARTHUR LANE NURSERIES, AINSWORTH" Data Type: Point Name: LORD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 01/05/1995 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1858	W	375790 410780	Status: Historical Licence No: 2569003089 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT ARTHUR LANE NURSERIES, AINSWORTH Data Type: Point Name: LORD	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 01/05/1995 Version End Date:
Not shown	1858	W	375790 410780	Status: Active Licence No: 2569003089 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT ARTHUR LANE NURSERIES AINSWORTH Data Type: Point Name: LORD	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 110 Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 01/05/1995 Version End Date:
Not shown	1879	W	376100 412600	Status: Historical Licence No: 2569001019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT ISHERWOODS FARM, WALSHAW" Data Type: Point Name: HOUGHTON	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 12/01/1966 Version End Date:
Not shown	1879	W	376100 412600	Status: Historical Licence No: 2569001019 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT ISHERWOODS FARM, WALSHAW Data Type: Point Name: HOUGHTON	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: Expiry Date: Issue No: Version Start Date: 12/01/1966 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site — Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
24	300	SW	377500 410900	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY Data Type: Point Name: THE ELTON COP DYEING CO LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date:
25	422	E	378500 411000	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 10/03/1966

ID	Distance (m)	Direction	NGR	Details	
				Region Point: RESERVOIRS FED BY ELTON BRK AT BURY 88 Data Type: Point Name: THE ELTON COP DYEING CO LTD	Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date:
26	447	E	378500 410900	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY *27 Data Type: Point Name: THE ELTON COP DYEING CO LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date:
27C	521	E	378600 411000	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date:
28C	521	E	378600 411000	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS " Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date:
29C	521	E	378600 411000	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS " Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date:
30C	521	E	378600 411000	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date:
31	721	E	378800 411000	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY [10 Data Type: Point Name: THE ELTON COP DYEING CO LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date:
32	724	E	379000 411900	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region	Annual Volume (m^3): 850,102 Max Daily Volume (m^3): 3,182 Application No: - Original Start Date: 23/03/1966 Expiry Date: -

ID	Distance (m)	Direction	NGR	Details	
				Point: RESERVOIR FED BY KIRKLESS BROOK AND SURFACE DRAINAGE Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS	Issue No: 100 Version Start Date: 16/06/1995 Version End Date:
33D	819	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY93 Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date:
34D	819	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): 850,102 Max Daily Volume (m^3): 3,182 Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date:
35D	819	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "KIRKLEES BRK AT WOOLFOLD, BURY $93" Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date:
36D	819	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY $93 Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date:
Not shown	1599	N	377700 413500	Status: Historical Licence No: 2569001009 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY UNNAMED TRIB OF KIRKLEES BRK, TOTTINGTON" Data Type: Point Name: SITE ELECTRICAL PH LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/11/1996 Version End Date:
Not shown	1599	N	377700 413500	Status: Historical Licence No: 2569001009 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF KIRKLEES BRK, TOTTINGTON Data Type: Point Name: SITE ELECTRICAL PH LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/11/1996 Version End Date:
Not shown	1599	N	377700 413500	Status: Historical Licence No: 2569001009 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF KIRKLEES BRK, TOTTINGTON Data Type: Point Name: SITE ELECTRICAL PH LTD	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/11/1996 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1599	N	377700 413500	Status: Historical Licence No: 2569001009 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY UNNAMED TRIB OF KIRKLEES BRK, TOTTINGTON" Data Type: Point Name: SITE ELECTRICAL PH LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/11/1996 Version End Date:
Not shown	1599	N	377700 413500	Status: Active Licence No: 2569001009 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIBUTAR Y KIRKLEES BROOK Data Type: Point Name: Greenwood & Coope Limited	Annual Volume (m³): 27,277 Max Daily Volume (m³): 136 Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 02/09/2016 Version End Date:
Not shown	1599	N	377700 413500	Status: Active Licence No: 2569001009 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIBUTAR Y KIRKLEES BROOK Data Type: Point Name: Greenwood & Coope Limited	Annual Volume (m³): 27,277 Max Daily Volume (m³): 136 Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 02/09/2016 Version End Date:
Not shown	1653	SE	379706 410696	Status: Historical Licence No: 2569001285 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RMC NORTHERNT BURY CANAL WHARF Data Type: Point Name: CEMEX UK MATERIALS LTD	Annual Volume (m³): 5,500 Max Daily Volume (m³): 21 Application No: - Original Start Date: 23/03/2005 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 01/04/2008 Version End Date:
Not shown	1653	SE	379706 410696	Status: Active Licence No: 2569001285R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RMC NORTHERNT BURY CANAL WHARF Data Type: Point Name: CEMEX UK MATERIALS LTD	Annual Volume (m³): 5,500 Max Daily Volume (m³): 21 Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/12/2018 Version End Date:
Not shown	1695	E	380014 411406	Status: Active Licence No: NW/069/0001/007 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT CHAMBER HALL WEIR Data Type: Point Name: Bury Council	Annual Volume (m³): 90,000,000 Max Daily Volume (m³): 340,416 Application No: - Original Start Date: 10/06/2016 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 10/06/2016 Version End Date:
Not shown	1825	SE	379450 409850	Status: Historical Licence No: 2569001056 Details: Dust suppression Direct Source: "Surface, Non-Tidal - North West Region" Point: "THE RIVER IRWELL AT HINDS LANE, BURY" Data Type: Point Name: J B SKIPS & SERVICES LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date:
Not shown	1825	SE	379450 409850	Status: Historical Licence No: 2569001056	Annual Volume (m³): - Max Daily Volume (m³): -

ID	Distance (m)	Direction	NGR	Details	
				Details: Dust suppression Direct Source: Surface, Non-Tidal - North West Region Point: THE RIVER IRWELL AT HINDS LANE, BURY Data Type: Point Name: J B SKIPS & SERVICES LTD	Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date:
Not shown	1903	W	375700 411300	Status: Historical Licence No: 2569003078 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED TRIB OF BLACKSHAW BRK AT HARWOOD GOLF CLUB AND RE Data Type: Point Name: HARWOOD GOLF CLUB	Annual Volume (m^3): - Max Daily Volume (m^3): - Application No: - Original Start Date: 25/04/1980 Expiry Date: - Issue No: 100 Version Start Date: 25/04/1980 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site — None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site — None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site — None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
154	W	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

					Chemical Quality Grade				
ID	Distance (m)	Direction	NGR	River Quality Grade	2005	2006	2007	2008	2009
63	9	S	378000 411000	River Name: Elton Bk. Reach: Qsl At Dow Lane To Irwell End/Start of Stretch: Start of Stretch NGR	B	B	B	B	B
Not shown	1068	E	379400 411600	River Name: Kirklees Bk. Reach: Olives Paper Mill To Irwell End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
2	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
3	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
4	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
5	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
6	0 On Site	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4
7	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
8	0 On Site	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.3
9	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
10	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
11	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.3
12	0 On Site	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
13	0 On Site	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
14	0 On Site	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
15	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
21	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
22	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
23	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
24	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
25	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
26	0 On Site	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4
27	0	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	On Site			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
28	0 On Site	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.3
29	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
30	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
31	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.3
32	0 On Site	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
33	0 On Site	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
34	0 On Site	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
35	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
16	1 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.5
17	1 E	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
18	1 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
36	1 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
				Average Width in Watercourse Section (m): 1.5
37	1 E	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
38	1 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
19	2 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
20	2 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
21	2 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
39	2 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
40	2 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	2 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
22	3 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
42	3 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
23	5 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
24	5 E	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
43	5 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
44	5 E	Elton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
25	8 NE	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 39.9
45	8 NE	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 39.9
26	19 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.1
27	19 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
46	19 E	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.1
47	19 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
28	55 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
48	55 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
29	82 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
49	82 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
30	100	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NW			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
31	100 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
50	100 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
51	100 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
32	125 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
33	125 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
34	125 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
52	125 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
53	125 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
54	125 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
35	240 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
55	240 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
36	250 SW	-	Reservoir. An area of non-tidal water used for storing water.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
				Average Width in Watercourse Section (m): 46.3
56	250 SW	-	Reservoir. An area of non-tidal water used for storing water.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 46.3
37	309 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
Not shown	309 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
38	313 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	313 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
39	318 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
40	318 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	318 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
Not shown	318 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	324 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
61	324 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
42	332 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
62	332 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4
43	342 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
63	342 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
44	356 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
64	356 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
45	367 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
65	367 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
46	368 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.0
66	368 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.0
47	375 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
67	375 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
48	384 NW	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.1
68	384	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NW			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.1
49	394 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
69	394 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
50	398 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 0.7
70	398 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 0.7
51	408 E	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
71	408 E	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
52	409 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.5
72	409 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.5
53	410 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
73	410 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
54	418 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
74	418 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
				Average Width in Watercourse Section (m): Not Provided
55	425 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.7
75	425 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.7
56	439 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
57	439 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
76	439 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
77	439 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
58	464 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
78	464 E	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
59	488 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.1
79	488 NW	Walshaw Brook	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.1
60	497 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 9.7
61	497 SW	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 54.7

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
80	497 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 9.7
81	497 SW	-	Lake, loch or reservoir.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 54.7
62	499 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
82	499 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Mersey Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

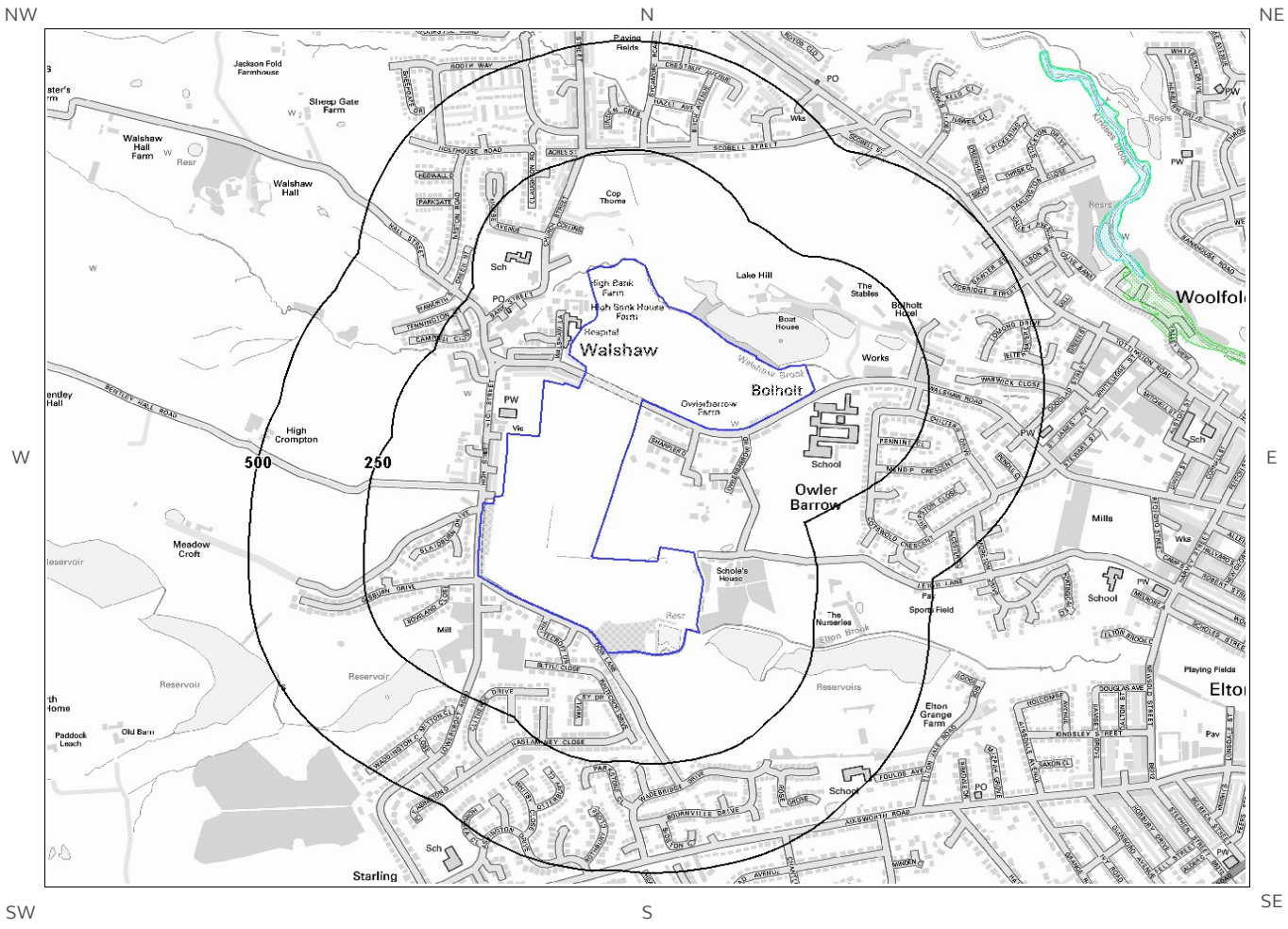
6.11 Surface Water Features

Surface water features within 250m of the study site Identified

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	NW
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
0	On Site
2	E
5	E
7	NE
32	E
34	N
95	NE
100	NW
125	N
160	E
197	SW

7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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Site Outline

Search Buffers (m)
100
250

Zone 2 Floodplain

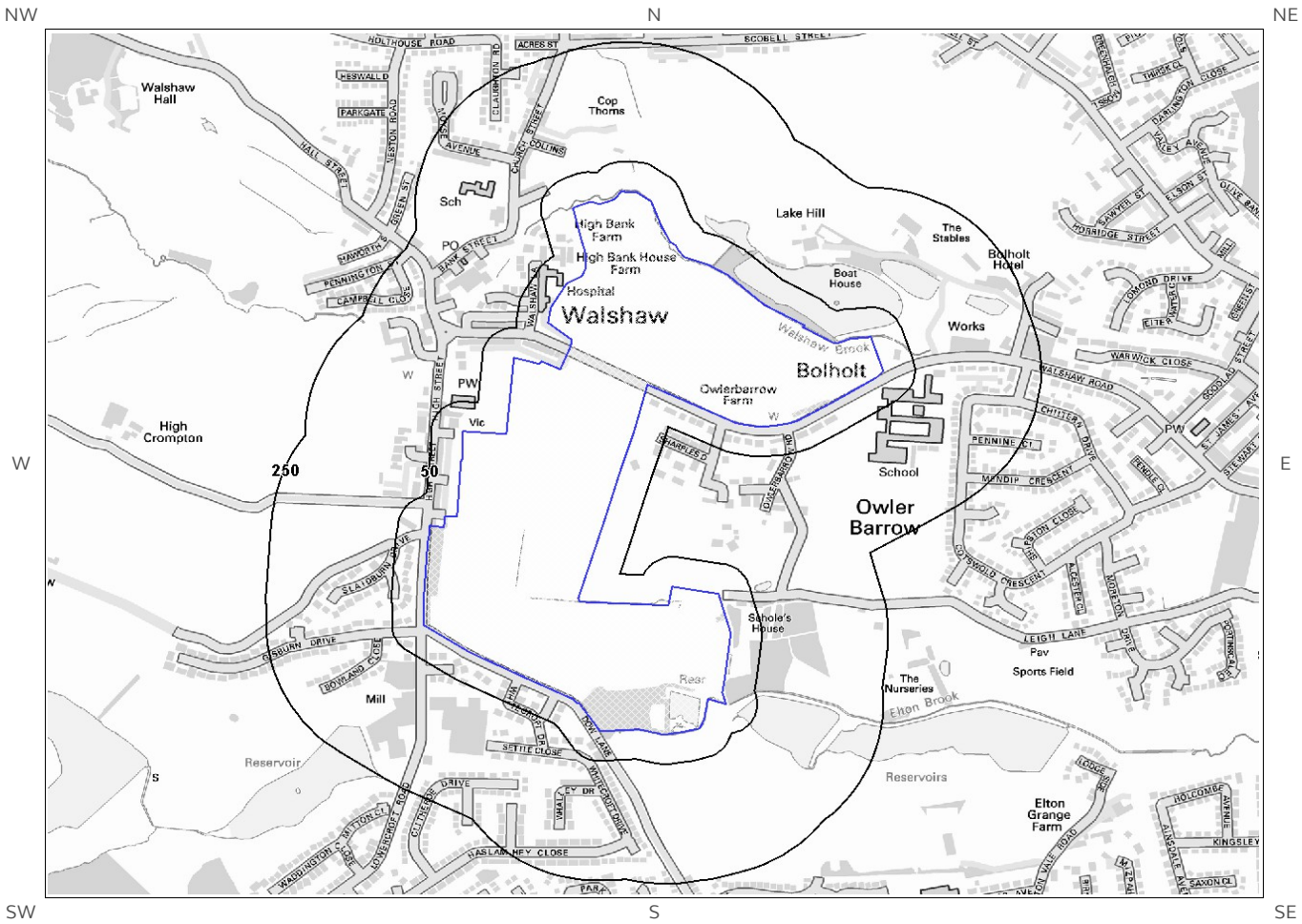
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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Site Outline

100
250
Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m — None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m — None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite — Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Flood Defences within 250m of the study site — None identified

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site — None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site	None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site: Identified

Clearwater Flooding or Superficial Deposits Flooding	Clearwater & Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

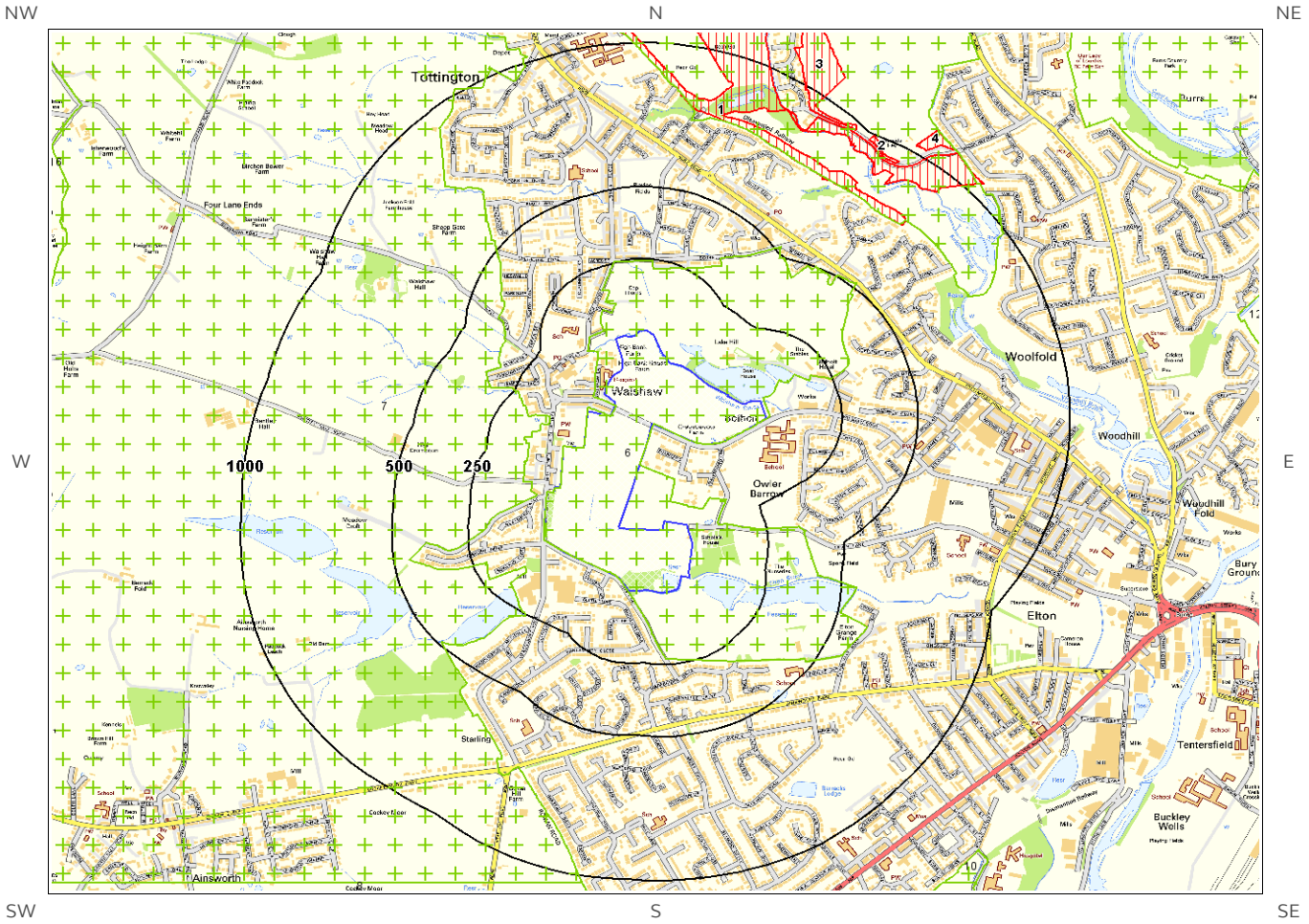
7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result	Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

0

Database searched and no data found.

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

5

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	762	NE	Kirklees Valley	Natural England
2	937	NE	Kirklees Valley	Natural England
3	938	NE	Kirklees Valley	Natural England
4	1025	NE	Kirklees Valley	Natural England
Not shown	1649	N	Kirklees Valley	Natural England

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

0

Database searched and no data found.

8.14 Records of Green Belt land within 2000m of the study site:

11

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ID	Distance	Direction	Green Belt Name	Local Authority Name
6	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
7	34	W	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
8	1024	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1334	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
10	1339	SE	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1434	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
12	1594	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1650	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1662	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1670	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
16	1727	W	Liverpool, Manchester and West Yorks Greenbelt	Bolton District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell*[*] hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site — Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site — Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site — Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely.

* This indicates an automatically generated 50m buffer and site.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site — Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary — None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site — None identified
Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: **www.environment-agency.gov.uk**
Email: enquiries@environment-agency.gov.uk

Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority
Authority: Bury Metropolitan Borough Council
Phone: 01612 535 000
Web: http://www.bury.gov.uk/
Address: Town Hall, Knowsley Street, Bury, Lancashire, BL9 OSW

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Report Reference: GS-6476607
Client Reference: 107765_Walshaw_Road_PO7772

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.
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https://www.groundsure.com/terms-and-conditions-feb11-2019

Groundsure
LOCATION INTELLIGENCE

Resource & Environmental Consultants Ltd REC RESOURCE & ENVIRONMENTAL CONSULTANTS LTD, OSPREY HOUSE 217-227, BROADWAY, SALFORD, M50 2UE	Groundsure Reference:	GS-6476608
	Your Reference:	107765_Walshaw_Road_PO7772
	Report Date	21 Nov 2019
	Report Delivery Method:	Email - pdf

Geo Insight

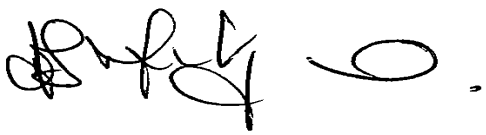
Address: Walshaw Road, Bury, BL8 3AE

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

Geo Insight

Address:	**Walshaw Road, Bury, BL8 3AE**
Date:	**21 Nov 2019**
Reference:	**GS-6476608**
Client:	**Resource & Environmental Consultants Ltd REC**

NW N NE

W E



SW S SE

Aerial Photograph Capture date:	26-Mar-2012
Grid Reference:	377968,411667
Site Size:	27.5292ha

Groundsure
LOCATION INTELLIGENCE

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Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale		
1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	Yes

Section 2: Geology 1:50,000 Scale		
2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features	2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?	Yes
	2.3.3 Are there any records of linear features within 500m of the study site boundary?	Yes

Section 3: Radon

3. Radon	3.1Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
	3.2Radon Protection	No radon protective measures are necessary.

Section 4: Ground Workings	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	24	35	52	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	2	0	0	1
4.3 Current Ground Workings	0	0	0	1	6

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	2	0	0	1
5.2 Coal Mining	1	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	0	0	0	0	0
5.5 Non–Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	0	0	0	0	0

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Cornwall and Devon Metalliferous Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0

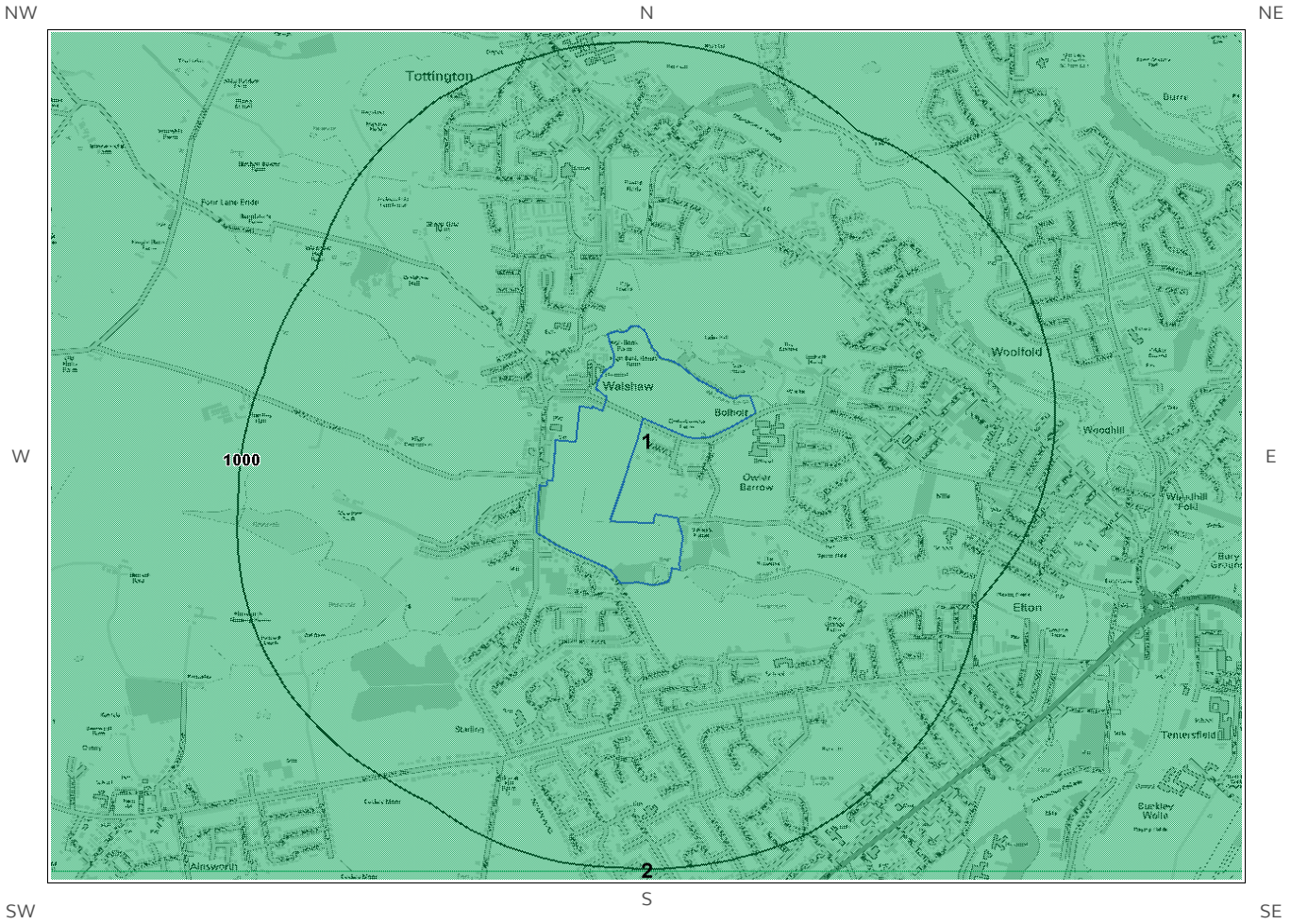
Section 6: Natural Ground Subsidence	On-site
6.1 Shrink-Swell Clay	Very Low
6.2 Landslides	Low
6.3 Ground Dissolution of Soluble Rocks	Negligible
6.4 Compressible Deposits	Moderate
6.5 Collapsible Deposits	Very Low
6.5 Running Sand	Low

Section 7: Borehole Records	On-site	0-50m	51-250
7 BGS Recorded Boreholes	0	6	3

Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250
8 Records of Background Soil Chemistry	22	13	0

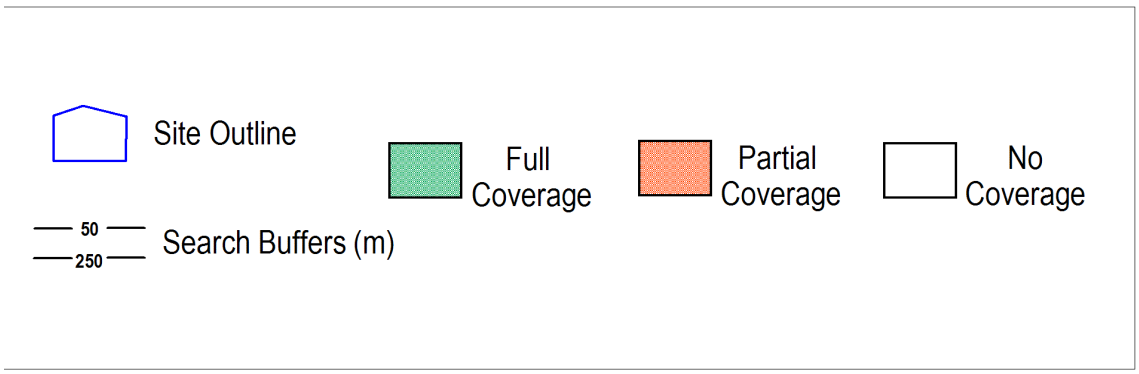
Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500
9.1 Tunnels	0	0	0	Not Searched
9.2 Historical Railway and Tunnel Features	0	0	3	Not Searched
9.3 Historical Railways	0	0	0	Not Searched
9.4 Active Railways	0	0	0	Not Searched
9.5 Railway Projects	0	0	0	0

1:10,000 Scale Availability



1_10,000 Availability Legend

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Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	Some deposits are mapped
2	1007.0	Some deposits are mapped	Full	Full	Some deposits are mapped
N3	1668.0	Some deposits are mapped	Full	Full	Some deposits are mapped

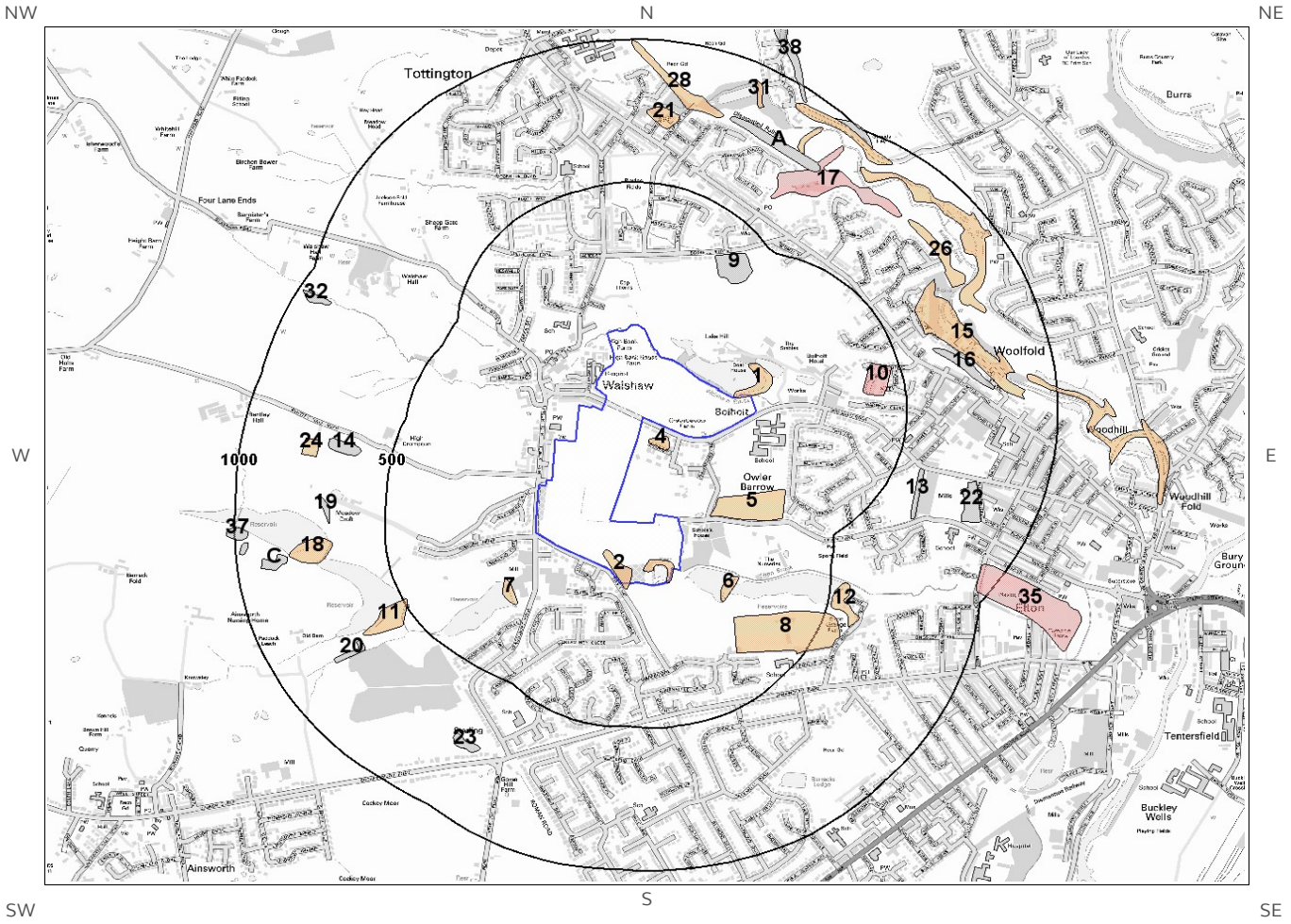
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage

1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)



Artificial Ground Legend

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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

1. Geology 1:10,000 scale

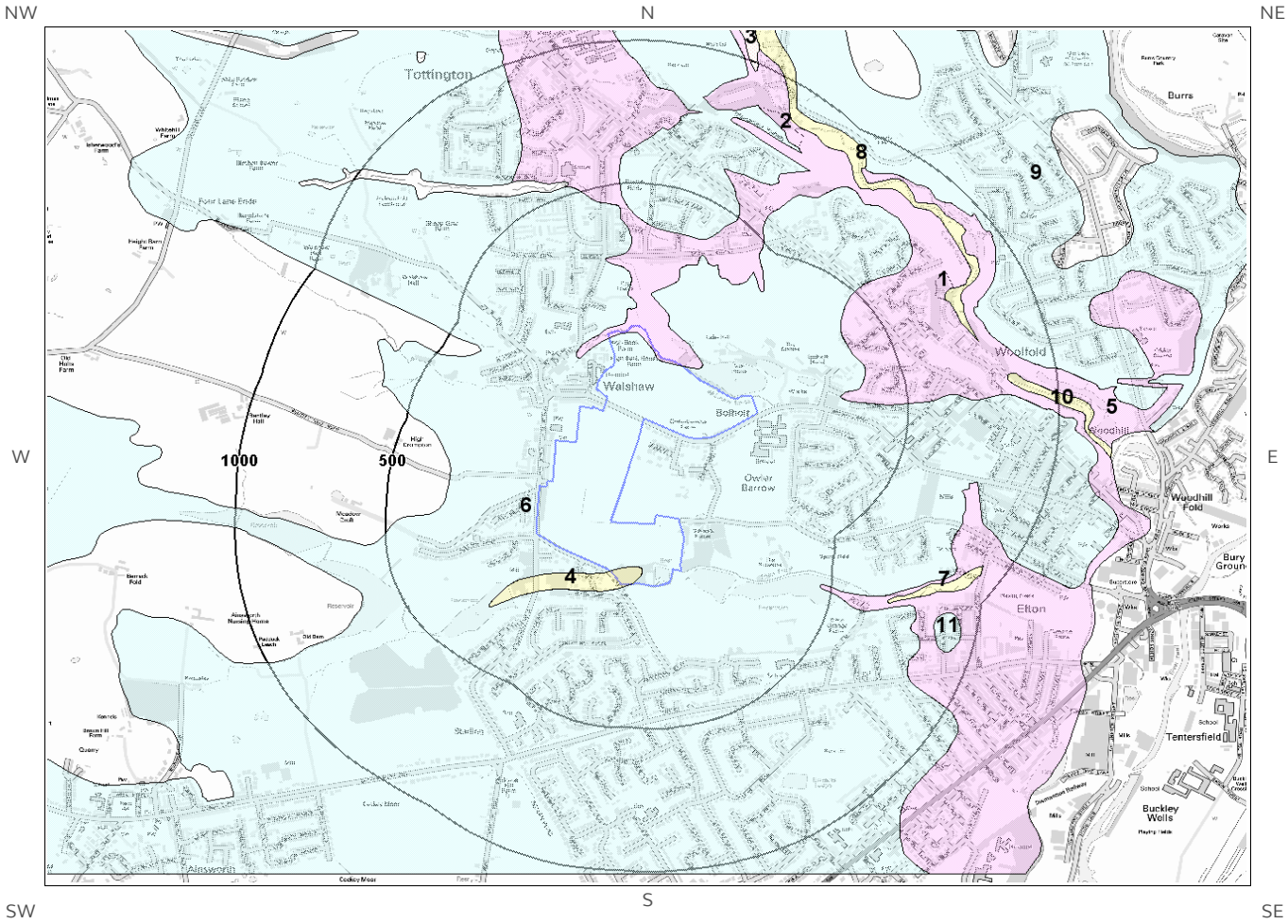
1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	28.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	105.0	E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	147.0	E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	190.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	239.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	310.0	NE	WGR-VOID	Worked Ground (Undivided)	Void
10	359.0	E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	488.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

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Site Outline

500
1000
Search Buffers (m)

1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
4	0.0	On Site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
5	0.0	On Site	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	0.0	On Site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

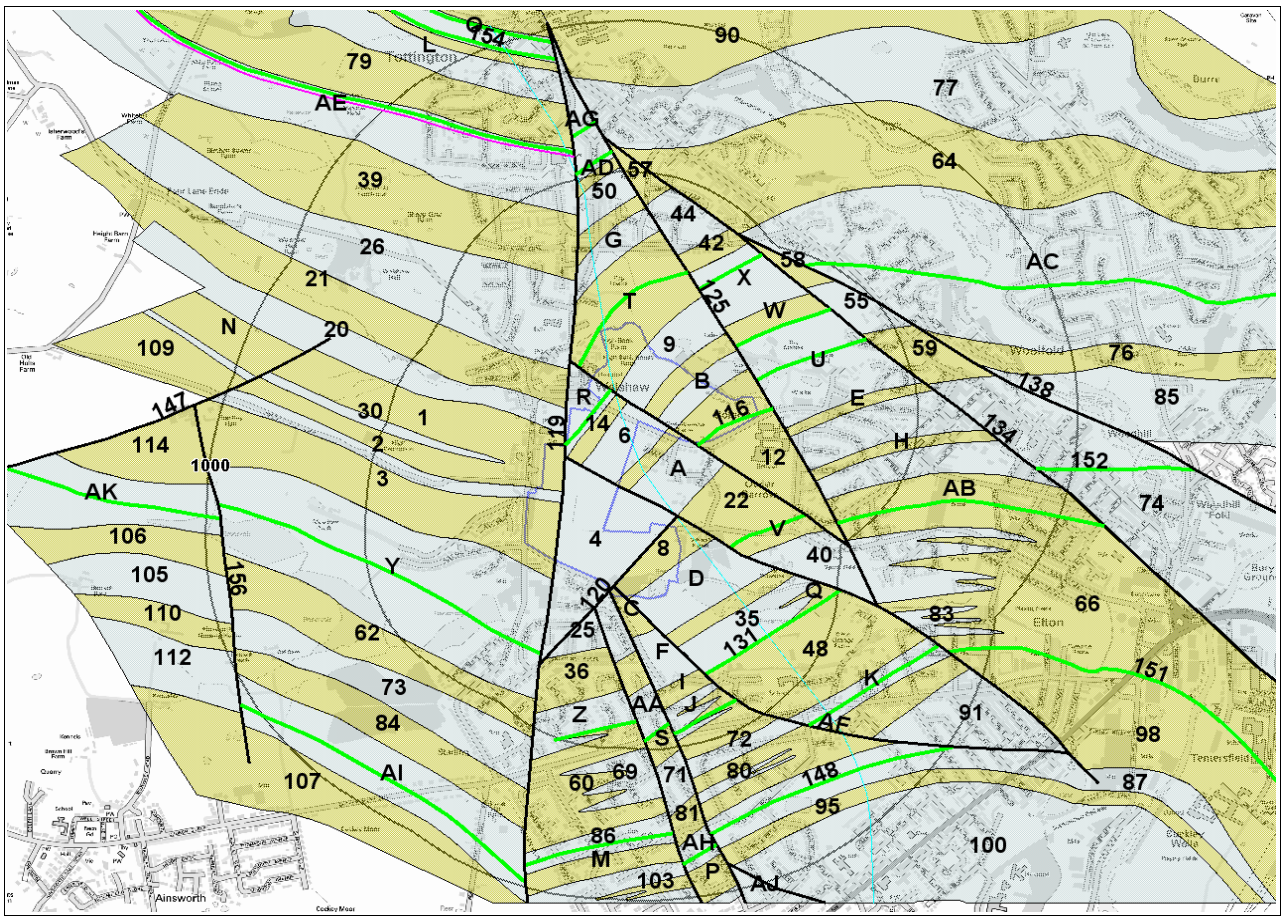
This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.3 Bedrock and linear features map (1:10,000 scale)

NW N NE

W E

SW S SE



Bedrock and linear features Legend

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Site Outline

500
1000
Search Buffers (m)

1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
2	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	0.0	On Site	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
4	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
5T	0.0	On Site	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
6	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7C	0.0	On Site	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
8	0.0	On Site	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
9	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10A	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11B	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	0.0	On Site	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
13R	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
14	0.0	On Site	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
15A	0.0	On Site	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
16D	0.0	On Site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
17B	0.0	On Site	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
18B	0.0	On Site	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
19C	2.0	SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	7.0	W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	13.0	W	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
22	33.0	NE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
23U	38.0	NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
24Y	59.0	SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
25	72.0	SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	76.0	NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
27E	95.0	SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
28F	99.0	S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
29D	111.0	SE	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
30	123.0	NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
31E	123.0	SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
32G	124.0	NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
33V	151.0	E	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
34W	155.0	NE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
35	165.0	SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
36	166.0	S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
37F	174.0	S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
38X	183.0	NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
39	184.0	NW	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
40	209.0	E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
41G	223.0	N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
42	234.0	NE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
43H	246.0	SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
44	262.0	NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
45I	267.0	SE	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
46AA	278.0	S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
47H	284.0	SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
48	288.0	SE	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
49Z	305.0	S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
50	319.0	N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
51J	322.0	SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
52Q	326.0	E	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
53I	345.0	SE	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
54AB	350.0	SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
55	379.0	NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
56AE	387.0	N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
57	391.0	N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
58	394.0	NE	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
59	397.0	NE	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
60	408.0	S	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
61J	411.0	SE	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
62	417.0	SW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
63S	418.0	S	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
64	432.0	NE	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
65AC	436.0	NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
66	437.0	SE	CAR-SDST	Cannel Rock (south Lancashire) - Sandstone	Langsettian Sub-age
67AD	439.0	N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
68AG	487.0	N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
69	491.0	S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
70	497.0	SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	Category Description	Feature Description
115Q	0.0	On Site	FAULT	Normal fault, inferred; crossmarks on downthrow side
116	0.0	On Site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
117R	0.0	On Site	ROCK	Coal seam, inferred
118A	0.0	On Site	FAULT	Normal fault, inferred; crossmarks on downthrow side
119	0.0	On Site	FAULT	Normal fault, inferred; crossmarks on downthrow side
120	0.0	On Site	FAULT	Normal fault, inferred; crossmarks on downthrow side
121AF	0.0	On Site	FAULT	Normal fault, inferred; crossmarks on downthrow side
122A	0.0	On Site	LANDFORM	Buried channel or valley margin

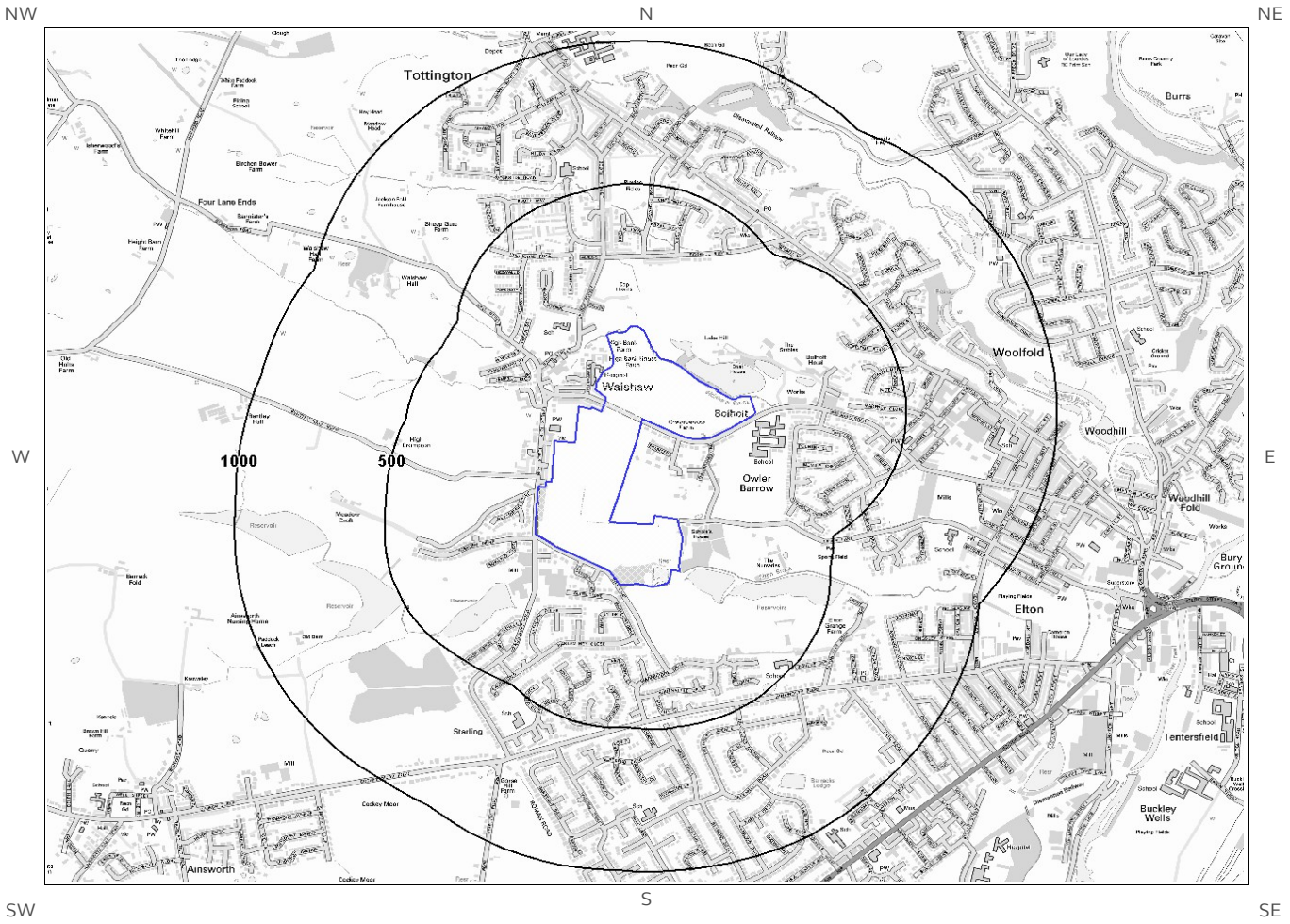
ID	Distance (m)	Direction	Category Description	Feature Description
123S	2.0	SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
124T	10.0	NW	ROCK	Coal seam, inferred
125	38.0	NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
126U	57.0	N	ROCK	Coal seam, inferred
127S	72.0	SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
128V	151.0	E	ROCK	Coal seam, inferred coincident with bedrock geology boundary
129W	155.0	NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
130X	222.0	NE	ROCK	Coal seam, inferred
131	288.0	SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
132Y	297.0	SW	ROCK	Coal seam, inferred
133Q	358.0	SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
134	379.0	NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
135Z	408.0	S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
136J	411.0	SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
137AA	418.0	S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
138	435.0	NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
139AB	437.0	SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
140S	448.0	S	ROCK	Coal seam, inferred
141AC	464.0	N	ROCK	Coal seam, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 085

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? No

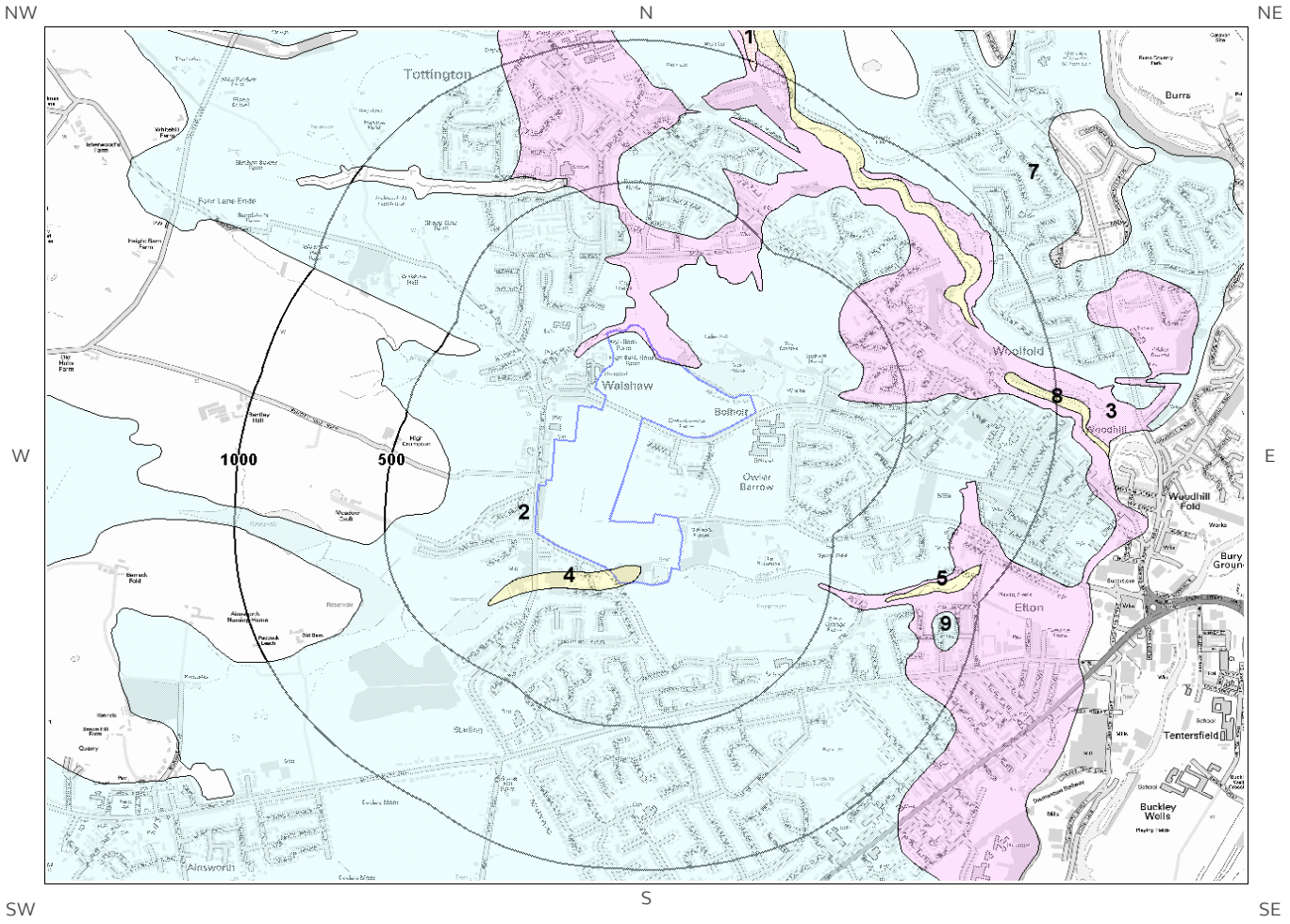
Database searched and no data found.

2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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Site Outline

500
1000
Search Buffers (m)

2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
2	0.0	On Site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	0.0	On Site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
4	0.0	On Site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	High	Low
0.0	On Site	Intergranular	Very High	High
0.0	On Site	Intergranular	High	Very Low

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

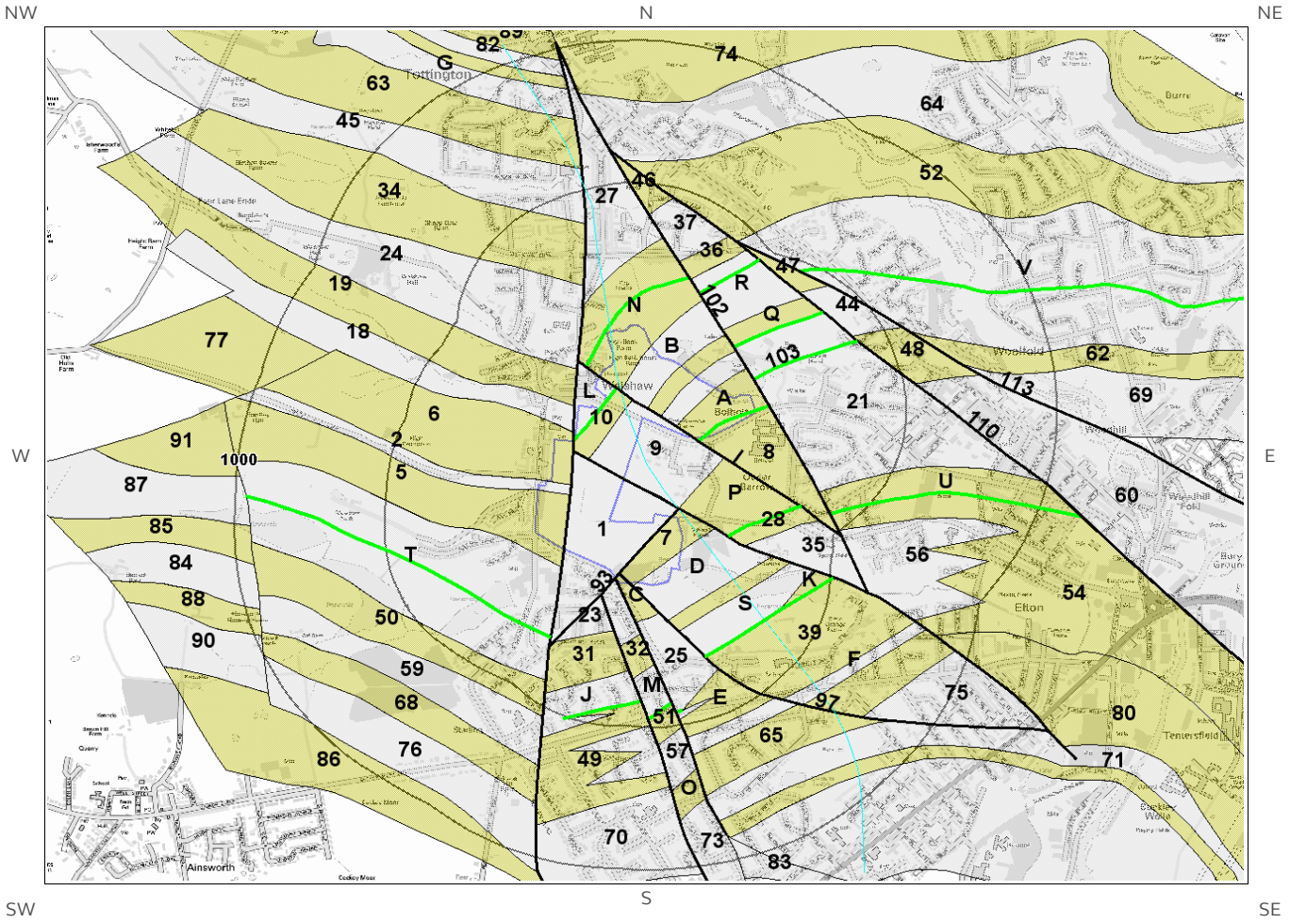
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

2.3 Bedrock and linear features map (1:50,000 scale)



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Site Outline

500
1000
Search Buffers (m)

2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 085

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3C	0.0	On Site	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
4L	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	0.0	On Site	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
6	0.0	On Site	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
7	0.0	On Site	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
8	0.0	On Site	TRBR-SDST	TRENCHERBONE ROCK - SANDSTONE	WESTPHALIAN
9	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	0.0	On Site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
11A	0.0	On Site	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
12A	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13B	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14D	0.0	On Site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15B	0.0	On Site	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
16N	0.0	On Site	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
17C	1.0	SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	7.0	W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
19	14.0	W	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
20P	33.0	NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
21	38.0	NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22T	59.0	SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	73.0	SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	77.0	NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	99.0	S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26D	111.0	SE	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
27	123.0	NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	151.0	E	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
29Q	155.0	NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
30S	165.0	SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
31	166.0	S	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
32	173.0	S	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
33R	183.0	NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
34	184.0	NW	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
35	209.0	E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
36	234.0	NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
37	262.0	NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
38M	278.0	S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
39	289.0	SE	TRBR-SDST	TRENCHERBONE ROCK - SANDSTONE	WESTPHALIAN
40J	306.0	S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
41E	346.0	SE	TRBR-SDST	TRENCHERBONE ROCK - SANDSTONE	WESTPHALIAN
42U	350.0	SE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
43K	358.0	SE	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
44	379.0	NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
45	387.0	N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
46	392.0	N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
47	395.0	NE	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
48	398.0	NE	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
49	408.0	S	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
50	417.0	SW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
51	418.0	S	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
52	432.0	NE	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
53V	436.0	NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
54	437.0	SE	CAR-SDST	CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE	WESTPHALIAN
55	491.0	S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
56	496.0	SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	High	Low
0.0	On Site	Fracture	High	Low
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	High	Moderate
0.0	On Site	Fracture	High	Low
0.0	On Site	Fracture	High	Moderate
14.0	W	Fracture	High	Moderate
33.0	NE	Fracture	High	Low

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? Yes

ID	Distance	Direction	Category Description	Feature Description
92I	0.0	On Site	FAULT	Fault, inferred
93	0.0	On Site	FAULT	Fault, inferred
94I	0.0	On Site	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
95J	0.0	On Site	FAULT	Fault, inferred
96K	0.0	On Site	FAULT	Fault, inferred
97	0.0	On Site	FAULT	Fault, inferred
98A	0.0	On Site	ROCK	Coal seam, inferred
99L	0.0	On Site	ROCK	Coal seam, inferred
100M	1.0	SW	FAULT	Fault, inferred
101N	10.0	NW	ROCK	Coal seam, inferred
102	38.0	NE	FAULT	Fault, inferred
103	57.0	N	ROCK	Coal seam, inferred
104O	73.0	SW	FAULT	Fault, inferred
105P	151.0	E	ROCK	Coal seam, inferred
106Q	155.0	NE	ROCK	Coal seam, inferred
107R	222.0	NE	ROCK	Coal seam, inferred
108S	289.0	SE	ROCK	Coal seam, inferred
109T	297.0	SW	ROCK	Coal seam, inferred
110	379.0	NE	FAULT	Fault, inferred
111J	408.0	S	ROCK	Coal seam, inferred
112M	418.0	S	ROCK	Coal seam, inferred
113	435.0	NE	FAULT	Fault, inferred
114U	437.0	SE	ROCK	Coal seam, inferred
115M	448.0	S	ROCK	Coal seam, inferred
116V	463.0	N	ROCK	Coal seam, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3 Radon Data

3.1 Radon Affected Areas

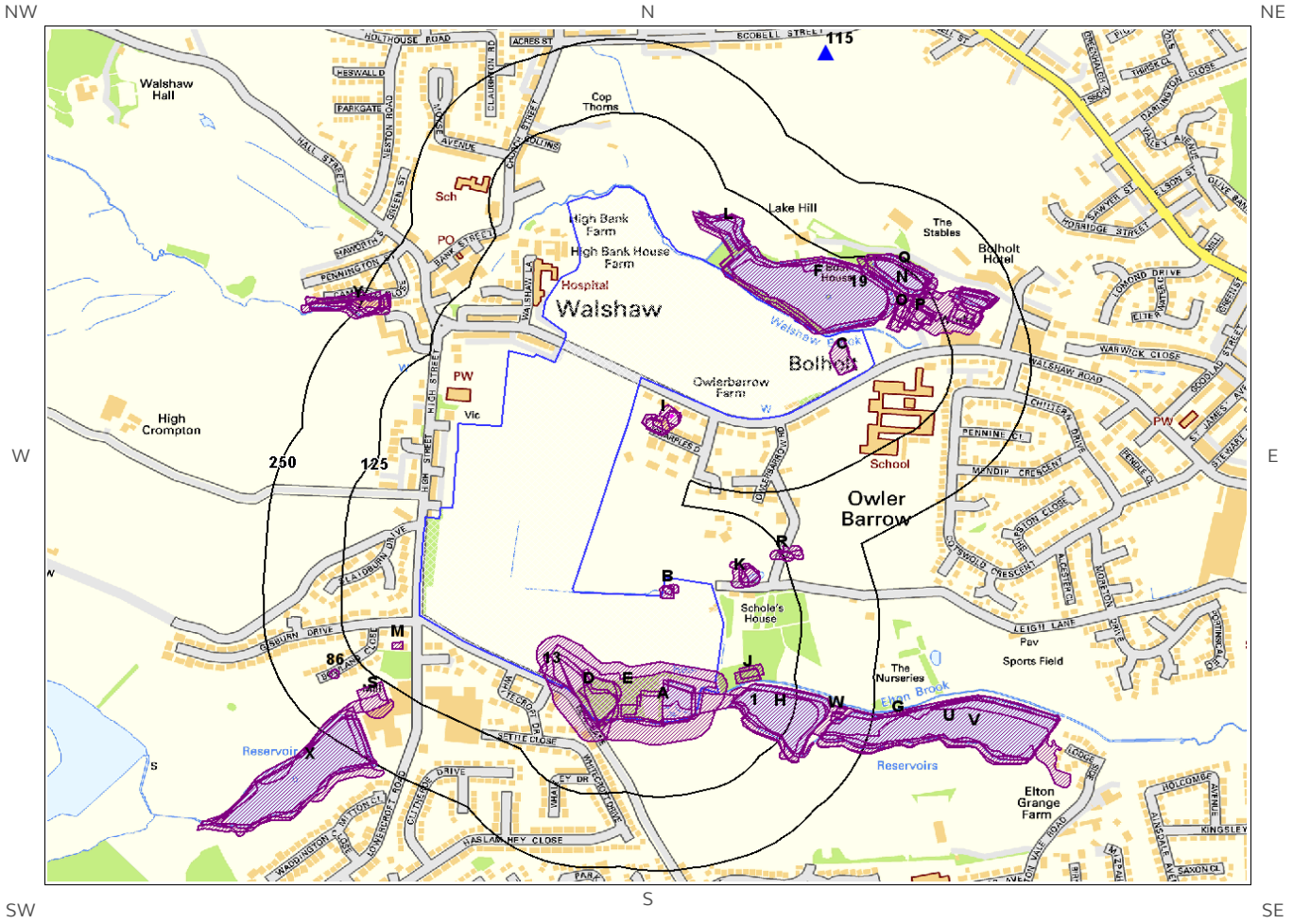
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

4 Ground Workings map



Ground Workings Legend

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Site Outline

125
250
Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Use	Date
1	0.0	On Site	378125 411007	Reservoirs	1890
2A	0.0	On Site	377983 411039	Reservoirs	1927
3A	0.0	On Site	377983 411039	Reservoirs	1938
4B	0.0	On Site	377999 411232	Reservoir	1938
5C	0.0	On Site	378281 411627	Ponds	1938
6F	0.0	On Site	378232 411766	Reservoirs	1938
7A	0.0	On Site	377983 411039	Reservoirs	1908
8B	0.0	On Site	377999 411230	Reservoir	1928
9C	0.0	On Site	378282 411628	Ponds	1928
10A	0.0	On Site	378017 411056	Reservoir	1980
11A	0.0	On Site	378017 411056	Pond	1974
12B	0.0	On Site	378010 411235	Reservoir	1956
13	0.0	On Site	377817 411094	Refuse Heap	1908
14D	0.0	On Site	377871 411061	Unspecified Heap	1938
15D	0.0	On Site	377874 411056	Refuse Heap	1927
16D	0.0	On Site	377891 411043	Unspecified Heap	1974
17D	0.0	On Site	377891 411047	Unspecified Heap	1969
18A	0.0	On Site	377985 411046	Reservoirs	1956
19	0.0	On Site	378309 411729	Water Bodies	1851
20A	0.0	On Site	378017 411056	Pond	1969
21E	0.0	On Site	377936 411074	Sewage Works Air Compressing Station	1956

ID	Distance (m)	Direction	NGR	Use	Date
22D	0.0	On Site	377891 411043	Unspecified Heap	1980
23E	0.0	On Site	377943 411063	Sewage Works	1938
24E	0.0	On Site	377943 411063	Sewage Works	1927
25F	1.0	NE	378229 411775	Reservoirs	1928
26F	1.0	NE	378229 411775	Reservoirs	1909
27F	1.0	NE	378229 411775	Reservoir	1891
28F	6.0	N	378233 411743	Pond	1980
29F	6.0	N	378233 411743	Pond	1969
30F	6.0	N	378233 411743	Reservoirs	1956
31F	6.0	N	378233 411743	Pond	1974
32H	19.0	E	378171 411007	Pond	1851
33I	21.0	E	377991 411522	Unspecified Heap	1891
34G	25.0	SE	378364 411012	Reservoirs	1980
35G	25.0	SE	378364 411012	Ponds	1969
36G	25.0	SE	378364 411012	Reservoirs	1974
37H	27.0	SE	378177 411004	Reservoir	1938
38H	27.0	SE	378177 411004	Reservoir	1927
39H	27.0	SE	378177 411004	Reservoir	1908
40I	27.0	E	377970 411511	Unspecified Heap	1938
41I	27.0	E	377991 411515	Unspecified Heap	1928
42I	27.0	E	377991 411515	Unspecified Heap	1909
43H	28.0	SE	378183 411011	Reservoir	1956
44J	28.0	E	378128 411088	Disused Filter Beds	1938
45J	29.0	E	378128 411087	Disused Filter Beds	1927
46J	29.0	E	378128 411087	Filter Beds	1908
47I	29.0	SW	378010 411525	Unspecified Heap	1938
48K	31.0	E	378117 411253	Pond	1851
49J	35.0	E	378135 411095	Disused Filter Beds	1956
50I	37.0	E	377990 411515	Unspecified Ground Workings	1956

ID	Distance (m)	Direction	NGR	Use	Date
51N	39.0	E	378375 411734	Ponds	1928
52O	41.0	E	378374 411698	Ponds	1938
53K	42.0	NE	378123 411263	Ponds	1891
54L	44.0	NE	378093 411841	Pond	1969
55L	44.0	NE	378093 411841	Reservoirs	1956
56K	46.0	E	378133 411256	Pond	1928
57K	46.0	E	378133 411256	Pond	1909
58L	47.0	NE	378095 411843	Pond	1980
59K	47.0	E	378134 411255	Pond	1938
60M	53.0	SW	377567 411138	Reservoirs	1938
61M	53.0	SW	377567 411138	Reservoirs	1927
62N	54.0	E	378381 411764	Reservoirs	1956
63O	54.0	E	378396 411703	Filter Beds	1909
64N	57.0	NE	378379 411746	Ponds	1891
65P	69.0	E	378406 411692	Ponds	1938
66N	83.0	NE	378370 411762	Pond	1909
67P	100.0	E	378423 411701	Pond	1980
68Q	100.0	NE	378379 411770	Pond	1980
69Q	100.0	NE	378379 411770	Pond	1969
70Q	100.0	NE	378379 411770	Pond	1974
71R	105.0	NE	378184 411291	Pond	1851
72R	119.0	NE	378199 411292	Pond	1909
73R	120.0	NE	378198 411300	Pond	1891
74S	128.0	SW	377528 411052	Reservoirs	1938
75S	128.0	SW	377528 411052	Reservoirs	1927
76S	128.0	SW	377528 411052	Reservoirs	1890
77S	128.0	SW	377528 411052	Reservoirs	1908
78T	133.0	E	378464 411706	Reservoirs	1938
79T	135.0	E	378485 411707	Reservoirs	1928

ID	Distance (m)	Direction	NGR	Use	Date
80T	135.0	E	378485 411707	Reservoirs	1909
81T	145.0	E	378495 411711	Reservoirs	1956
82X	145.0	SW	377422 410936	Water Bodies	1851
83T	151.0	NE	378487 411728	Pond	1891
84T	161.0	E	378496 411714	Ponds	1969
85T	161.0	E	378496 411714	Ponds	1974
86	161.0	SW	377466 411091	Reservoirs	1908
87T	165.0	E	378498 411728	Pond	1980
88U	178.0	SE	378432 410993	Reservoir	1927
89U	178.0	SE	378432 410993	Reservoir	1938
90U	178.0	SE	378432 410993	Reservoir	1908
91V	178.0	SE	378547 410966	Water Bodies	1851
92U	179.0	SE	378432 410993	Reservoir	1890
93V	181.0	SE	378437 411000	Reservoir	1956
94W	185.0	E	378270 411017	Filter Bed	1927
95W	185.0	E	378270 411017	Filter Bed	1938
96X	189.0	SW	377398 410935	Reservoir	1974
97X	189.0	SW	377398 410935	Reservoir	1969
98X	189.0	SW	377398 410935	Reservoir	1980
99W	190.0	E	378278 411026	Filter Bed	1956
100X	200.0	SW	377396 410917	Reservoir	1908
101X	200.0	SW	377396 410917	Reservoir	1890
102X	200.0	SW	377396 410917	Reservoir	1938
103X	200.0	SW	377396 410917	Reservoir	1927
104X	201.0	SW	377394 410923	Reservoir	1956
105Y	202.0	W	377490 411713	Reservoirs	1938
106Y	203.0	W	377504 411717	Reservoirs	1956
107Y	207.0	W	377465 411720	Reservoir	1980
108Y	212.0	W	377486 411713	Reservoirs	1928

ID	Distance (m)	Direction	NGR	Use	Date
109Y	212.0	W	377486 411713	Reservoirs	1909
110Y	218.0	W	377450 411723	Ponds	1891
111Y	221.0	W	377475 411711	Pond	1851

4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

ID	Distance (m)	Direction	NGR	Use	Date
112I	37.0	SW	378007 411528	Unspecified Old Shaft	1891
113I	37.0	SW	378007 411528	Old Coal Shaft	1909
Not shown	693.0	SE	378623 410620	Unspecified Old Shaft	1908

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

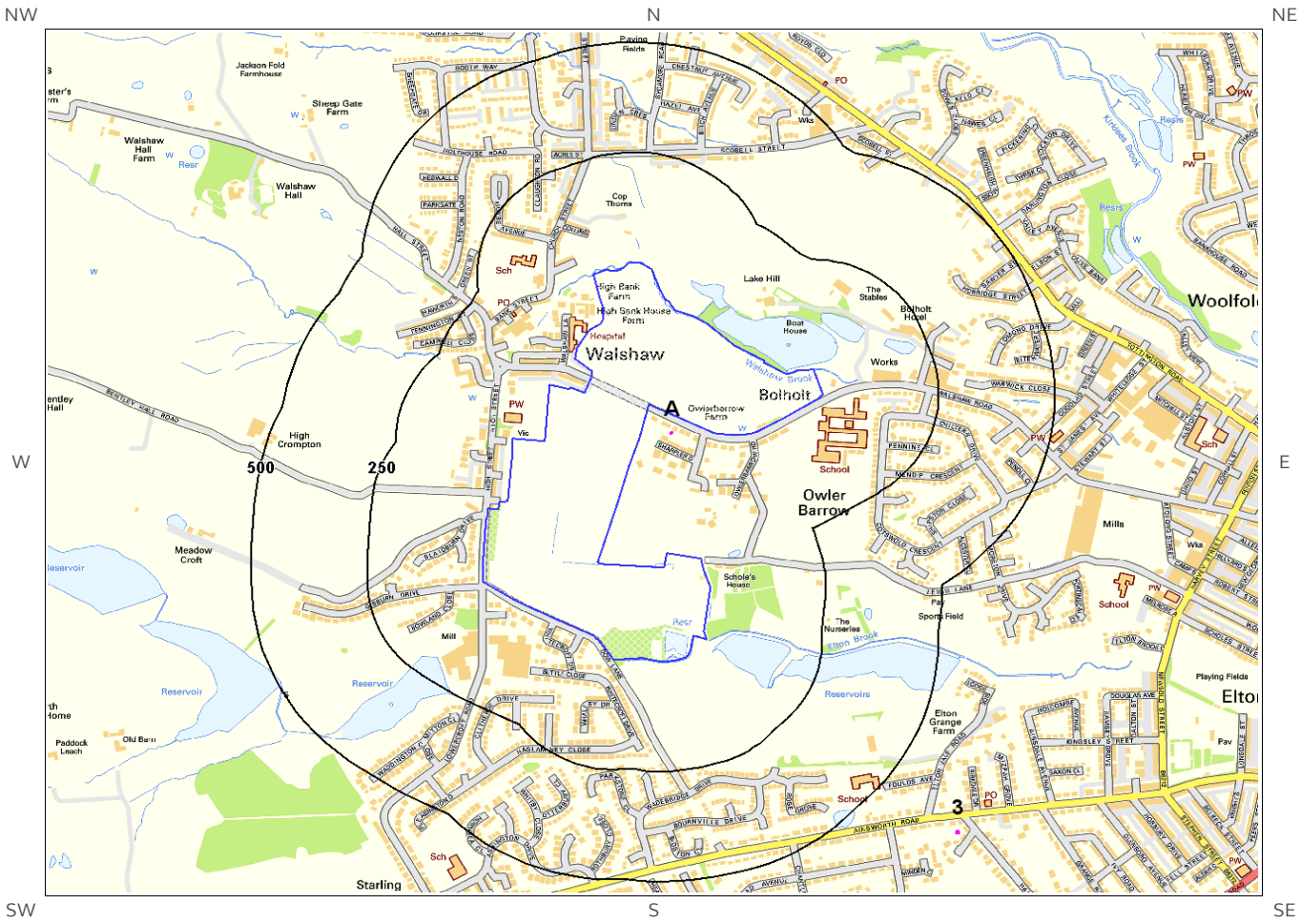
Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
115	378.0	NE	378253 412143	Sandstone	Leemans Hill	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	651.0	W	376977 411501	Sandstone	Lower Bently Hall	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	654.0	N	377943 412569	Sand	Copp Hill Sand Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	731.0	N	378129 412622	Clay & Shale	Brown Hill Brick Field	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	770.0	SW	377372 410435	Sandstone	Cockey Moor	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	793.0	NW	377271 412441	Sandstone	Jacksons Fold	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	975.0	NW	377165 412593	Sandstone	Meadow Head	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

5 Mining, Extraction & Natural Cavities map



Mining, Extraction and Natural Cavities Legend

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Site Outline

Search Buffers (m) — 250 — 500

Historical Mining

Non-Coal Mining Cavities

Natural Cavities (point data)

Natural Cavities (polygon data)

Non-Coal Mining

- Highly likely
- Likely
- Unlikely
- Highly unlikely
- Rare

5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

ID	Distance (m)	Direction	NGR	Details	Date
1A	37.0	SW	378007 411528	Old Coal Shaft	1909
2A	37.0	SW	378007 411528	Unspecified Old Shaft	1891
3	693.0	SE	378623 410620	Unspecified Old Shaft	1908

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0.0	On Site	The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.9 Cornwall and Devon Metalliferous Mining

This dataset provides information on metalliferous mining areas in Cornwall/Devon and is derived from records held by Mining Searches UK.

Are there any Cornwall and Devon Metalliferous Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

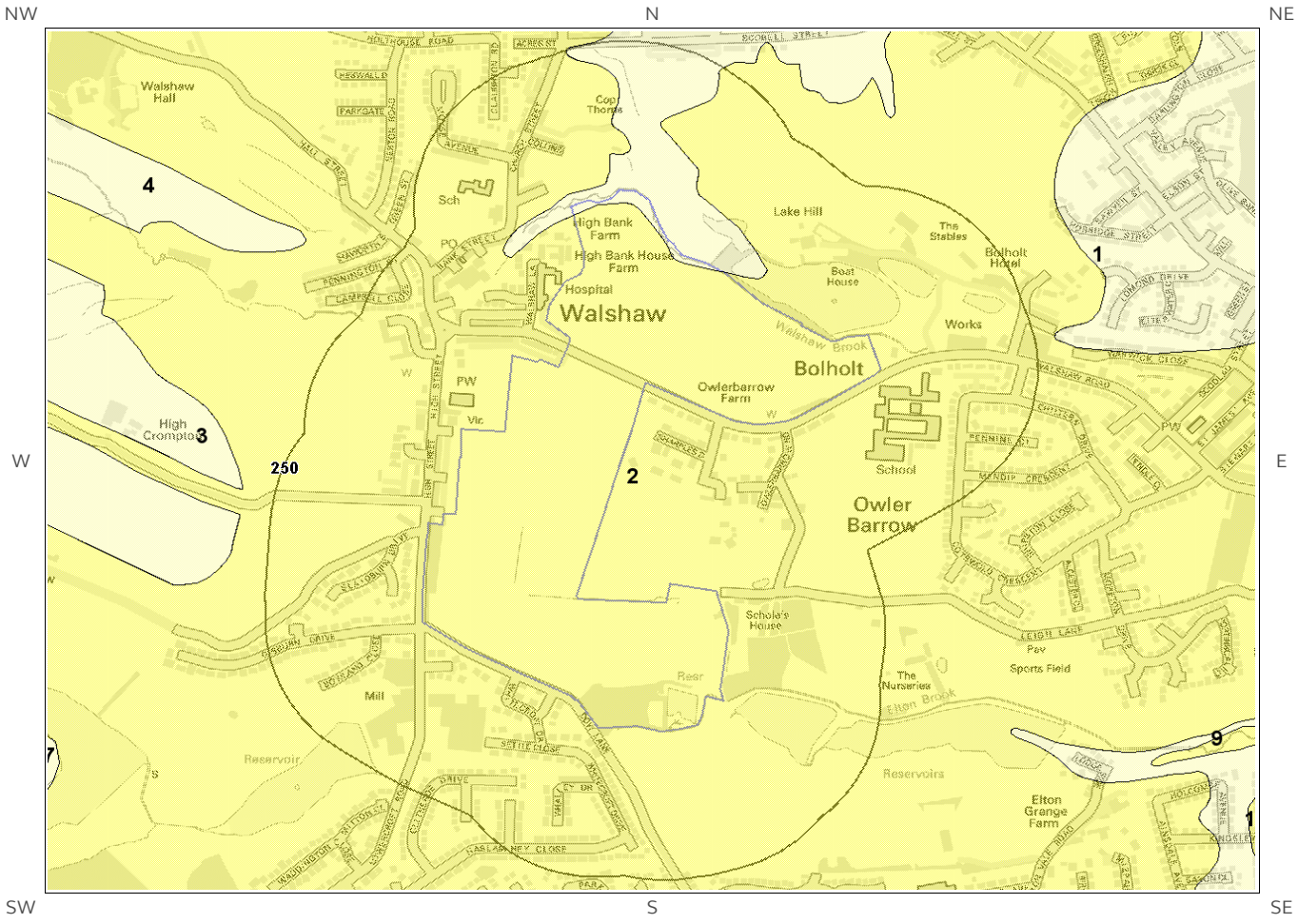
Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

6 Natural Ground Subsidence

6.1 Shrink-Swell Clay map

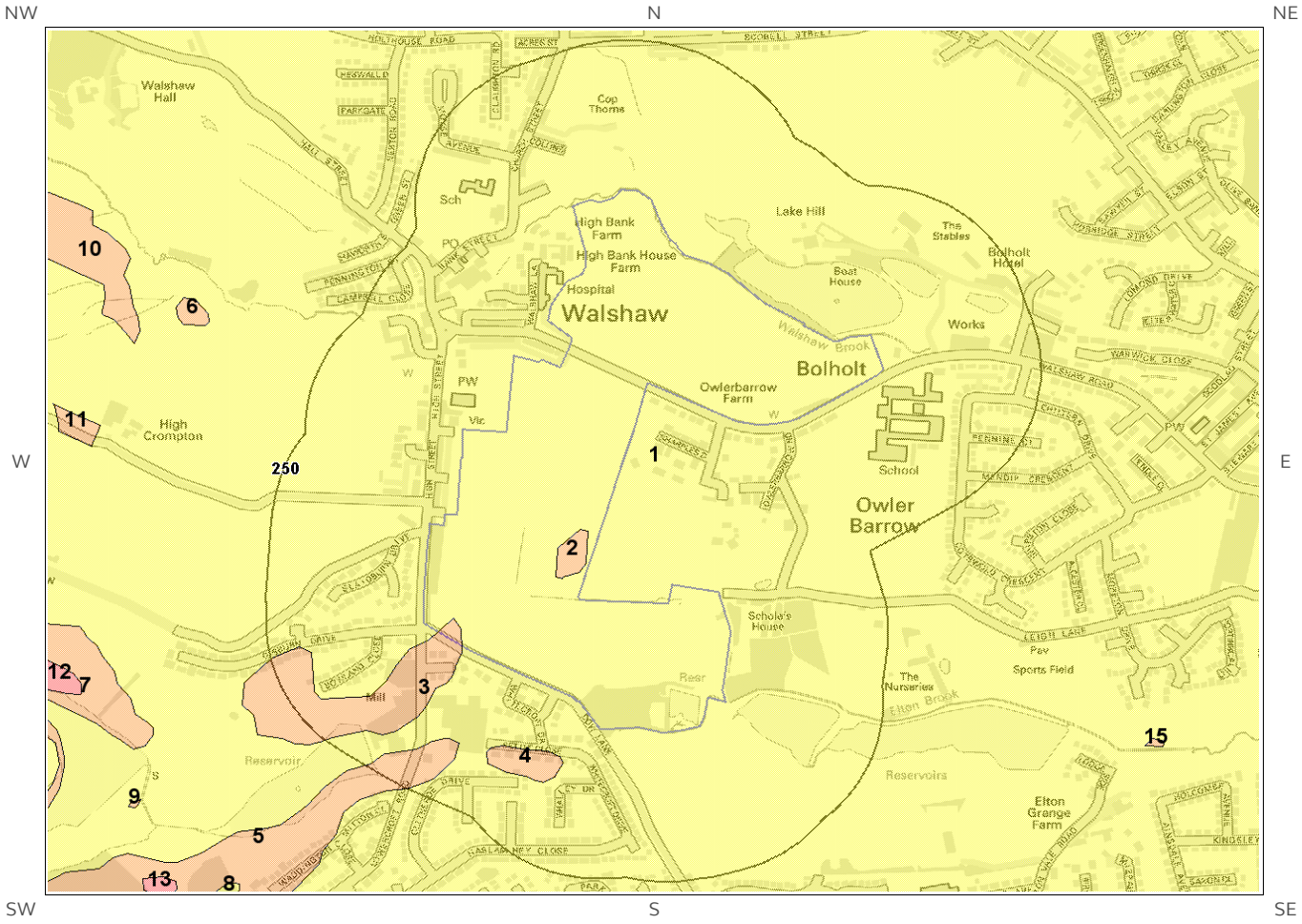


Shrink Swell Clay Legend

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6.2 Landslides map

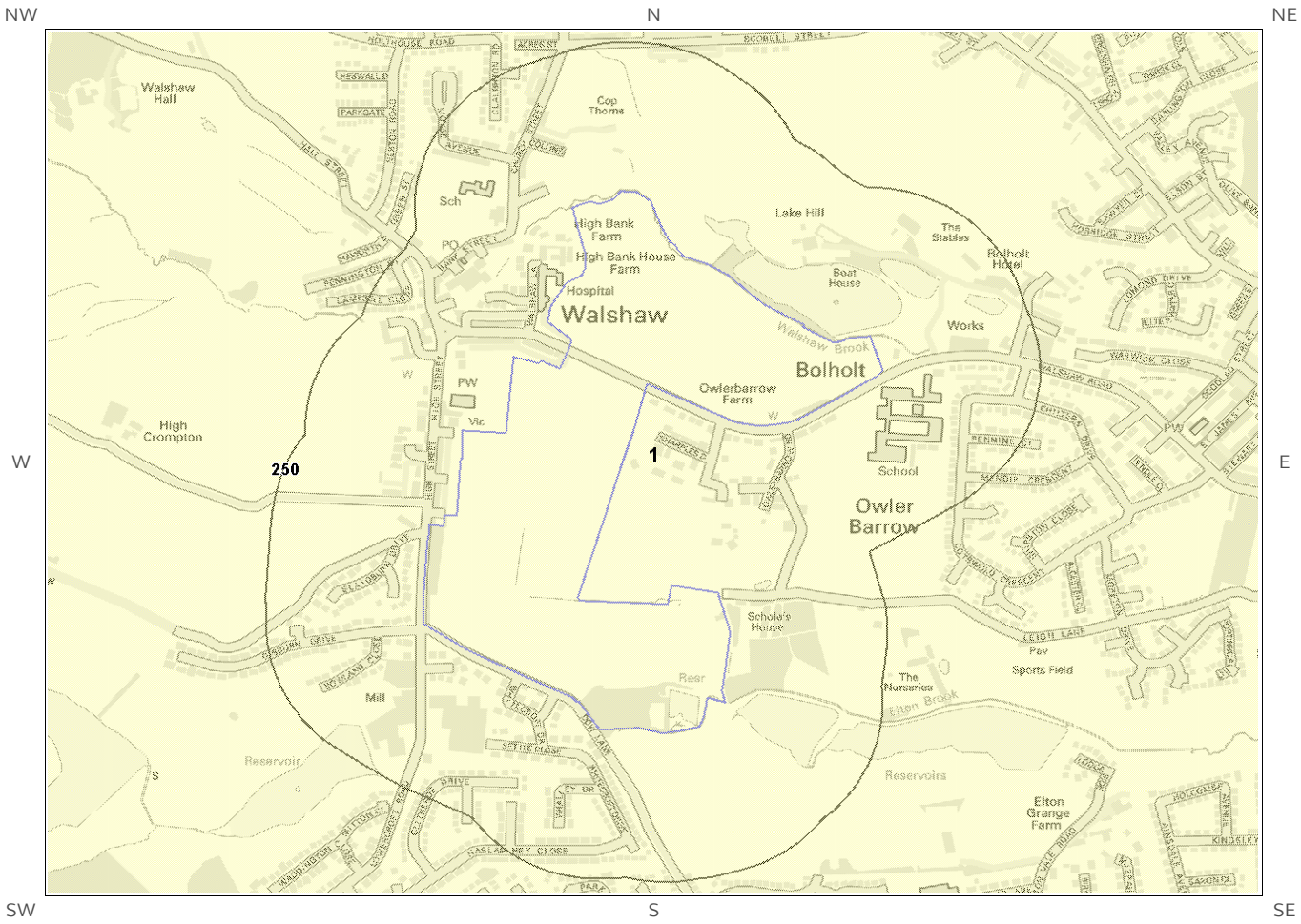


Landslides Legend

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6.3 Ground Dissolution of Soluble Rocks map

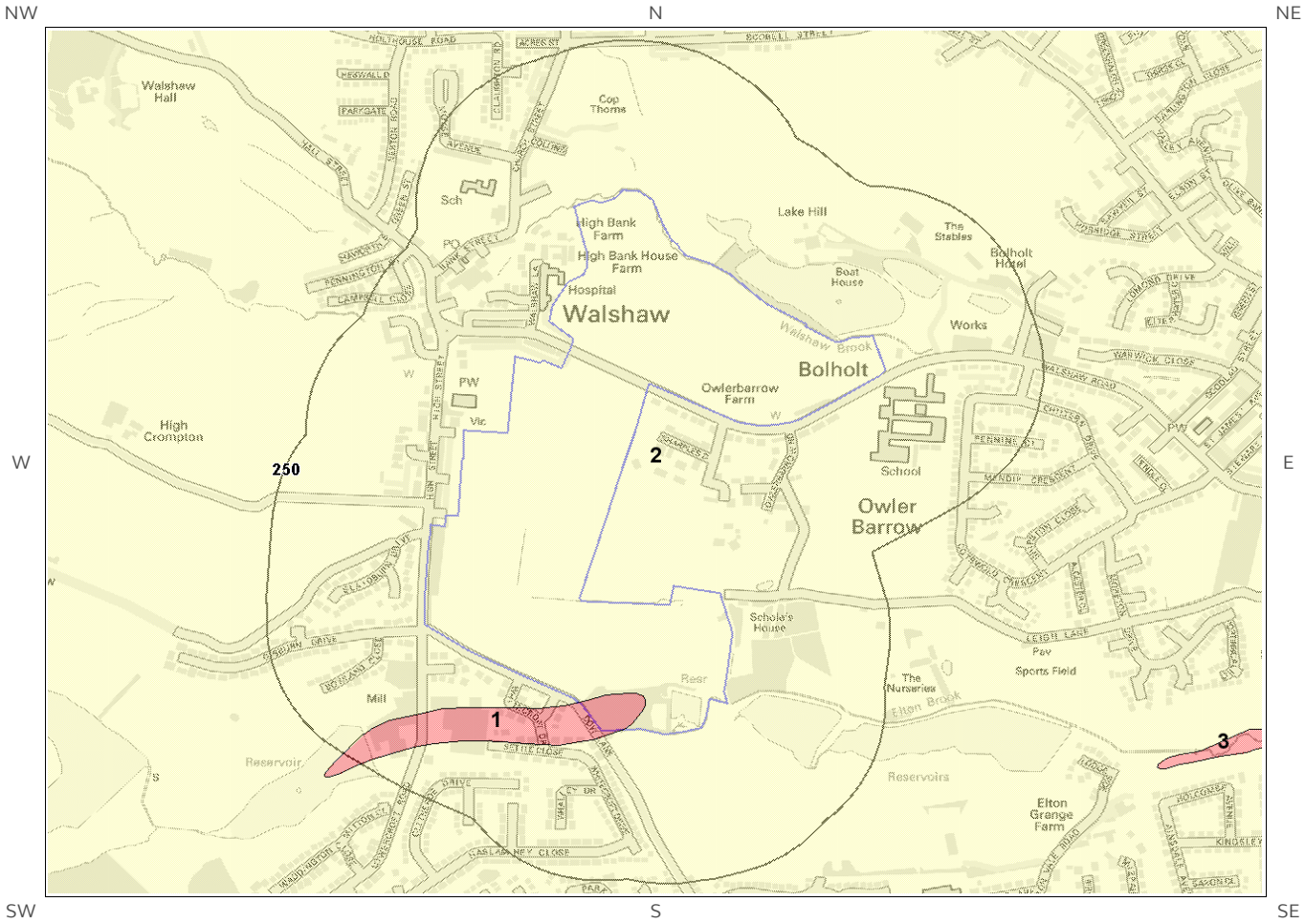


Ground Dissolution Soluble Rocks Legend

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6.4 Compressible Deposits map

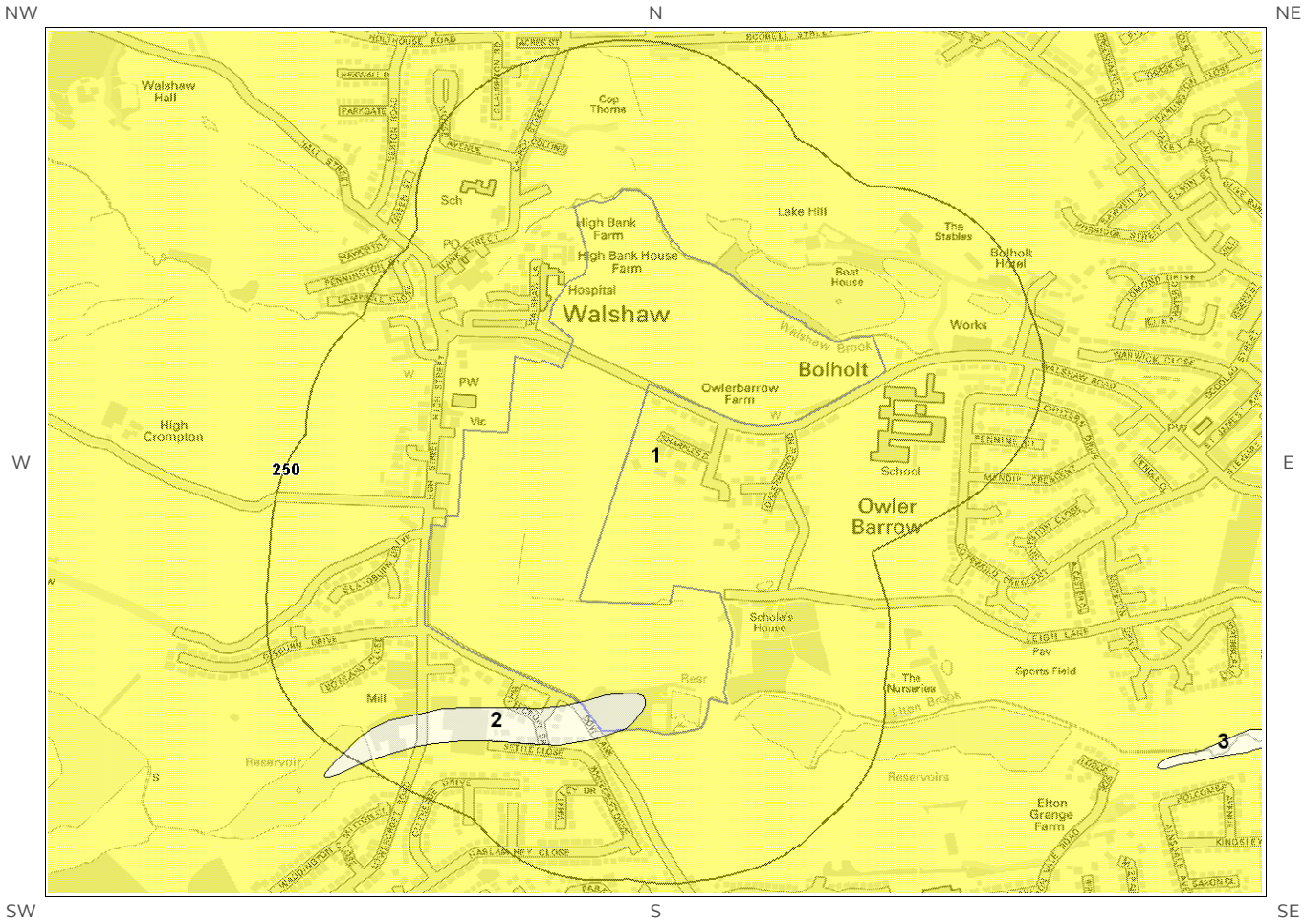


Compressible Deposits Legend

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6.5 Collapsible Deposits map

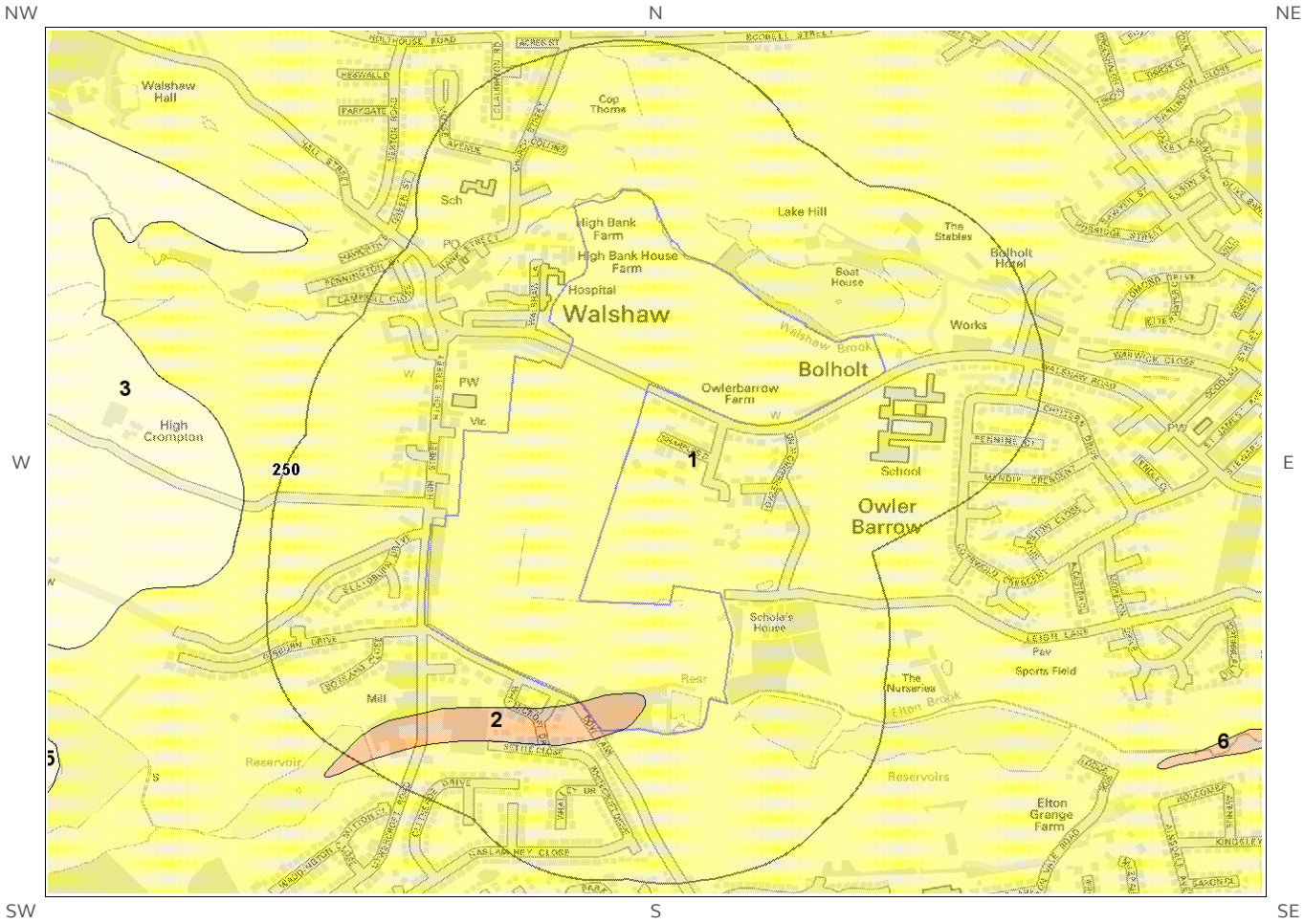


Collapsible Deposits Legend

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6.6 Running Sand map



Running Sand Legend

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6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? Moderate

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
2	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
2	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

* This includes an automatically generated 50m buffer zone around the site

ID	Distance (m)	Direction	Hazard Rating	Details
3	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
2	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

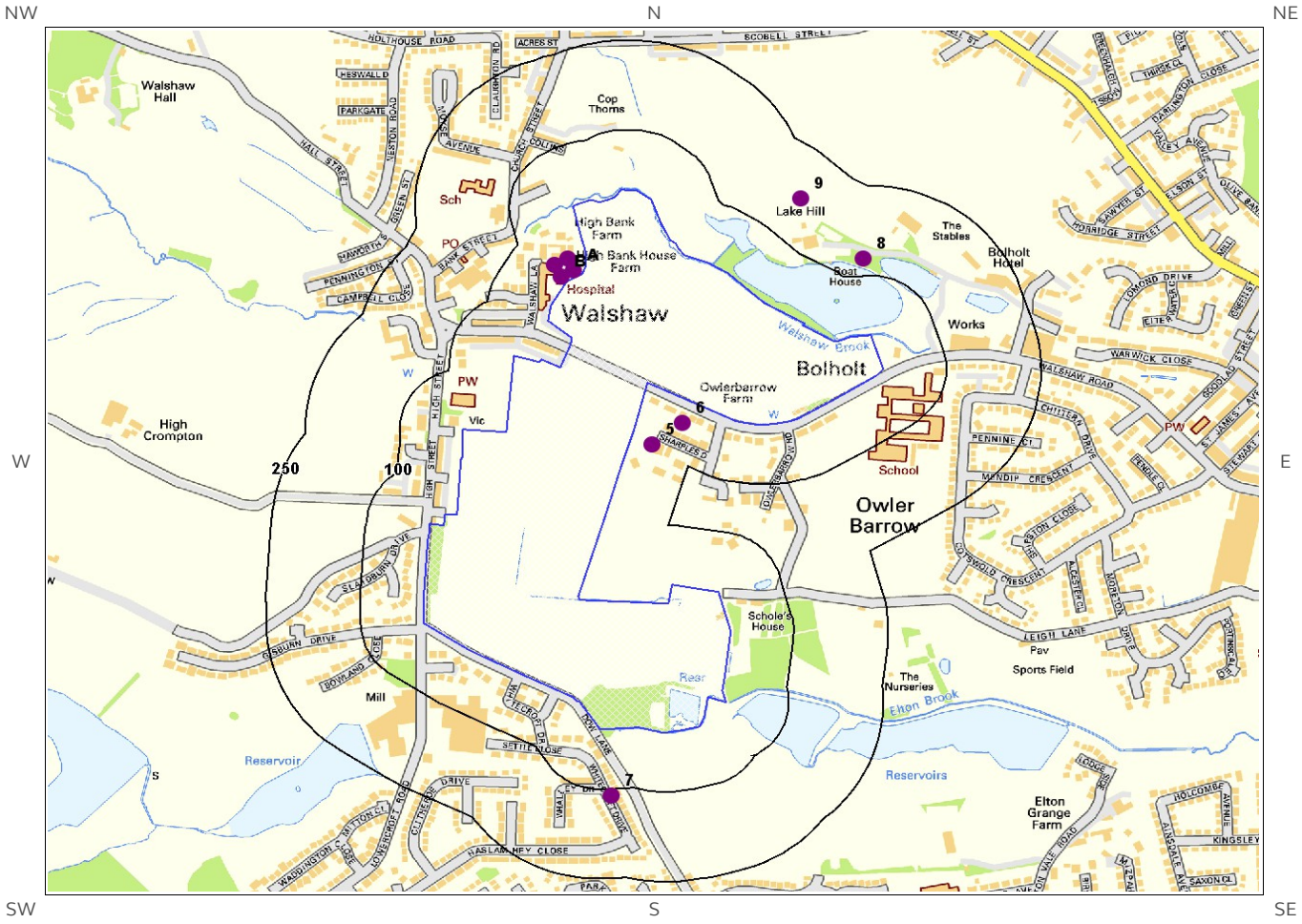
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.

7 Borehole Records map



Borehole Records Legend

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Site Outline

Borehole Locations

125
250
Search Buffers (m)

7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 9

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1A	10.0	NW	377840 411780	SD71SE133	3.2	WALSHAW ROAD BURY 3
2B	13.0	NW	377820 411770	SD71SE131	6.5	WALSHAW ROAD BURY 1
3A	30.0	W	377830 411800	SD71SE134	2.2	WALSHAW ROAD BURY 4
4B	34.0	NW	377810 411790	SD71SE132	6.5	WALSHAW ROAD BURY 2
5	34.0	E	377964 411488	SD71SE13	159.23	ALDER BARROW PIT ELTON U/G
6	39.0	SW	378012 411525	SD71SE14	92.69	OWLER BARROW PIT
7	113.0	S	377900 410900	SD71SE8	89.03	PLEASINGTON FARM 3
8	128.0	N	378300 411800	SD71SE89	No details	S. SMETHURST & SONS LTD
9	169.0	NE	378200 411900	SD71SE79	No details	BOLTHOLT FARM

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1A: scans.bgs.ac.uk/sobi_scans/boreholes/610180
#2B: scans.bgs.ac.uk/sobi_scans/boreholes/610178
#3A: scans.bgs.ac.uk/sobi_scans/boreholes/610181
#4B: scans.bgs.ac.uk/sobi_scans/boreholes/610179
#5: scans.bgs.ac.uk/sobi_scans/boreholes/22771
#6: scans.bgs.ac.uk/sobi_scans/boreholes/22772
#7: scans.bgs.ac.uk/sobi_scans/boreholes/22766
#8: scans.bgs.ac.uk/sobi_scans/boreholes/22847
#9: scans.bgs.ac.uk/sobi_scans/boreholes/22837

8 Estimated Background Soil Chemistry

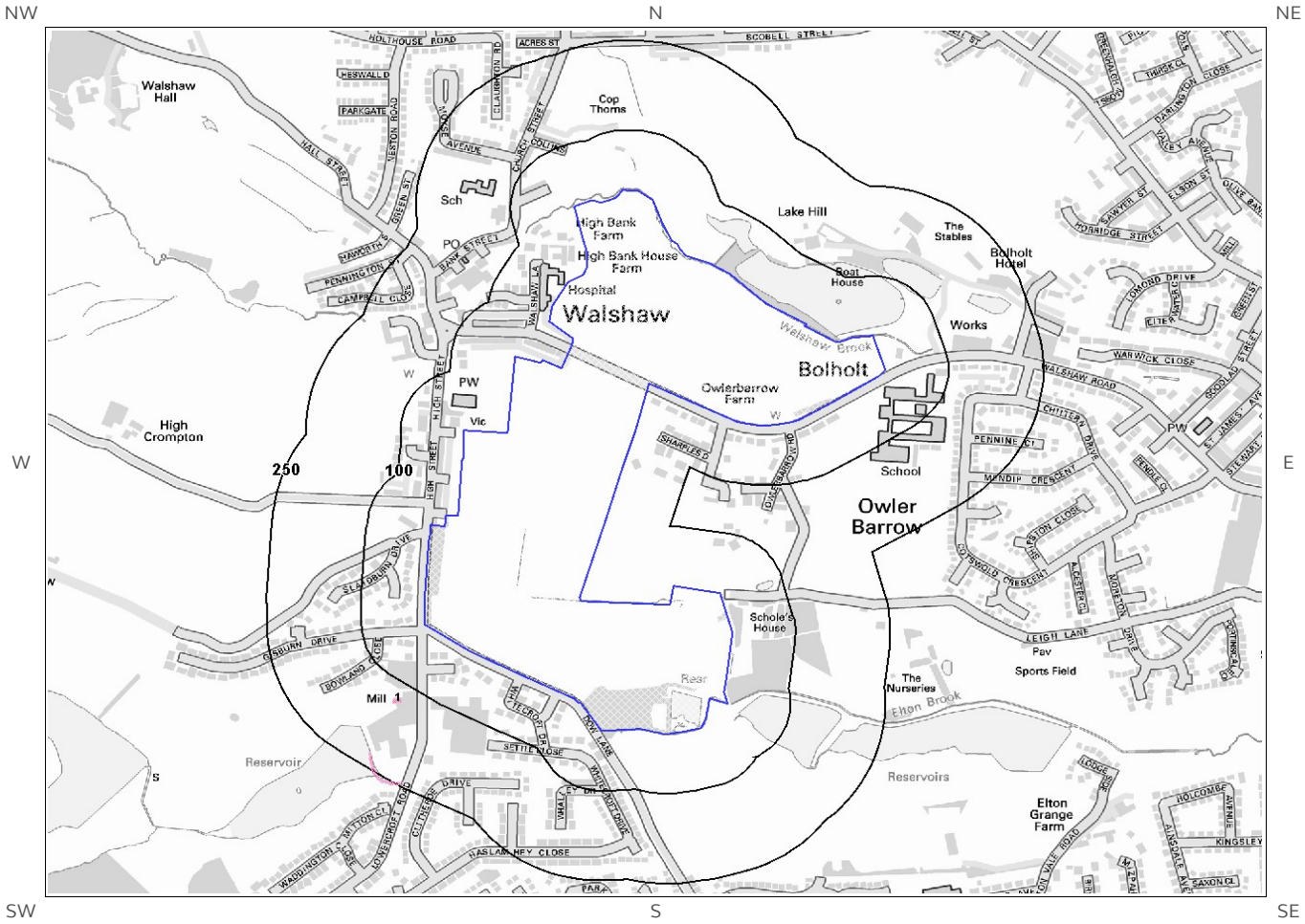
Records of background estimated soil chemistry within 250m of the study site boundary: 35

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	300 - 600 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	300 - 600 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	300 - 600 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	300 - 600 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
4.0	NE	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	300 - 600 mg/kg
5.0	NE	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
7.0	S	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
9.0	S	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
12.0	S	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
13.0	S	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
14.0	NE	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	300 - 600 mg/kg
23.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
23.0	S	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
24.0	S	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	200 - 300 mg/kg
27.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
29.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg
35.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	100 - 200 mg/kg

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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- Site Outline
- Search Buffers (m) — 250 — 500
- Underground or Partially Underground Railway / Subway System
- Railway Tunnel (OS Mapping)
- Abandoned or Dismantled Railway (OpenStreetMap)
- Railway Track (OS Mapping)
- Railway Track (OpenStreetMap)
- High Speed 2
- High Speed 2 Revised Proposed Route
- Crossrail 1
- Railway and/or Tunnel Feature from Historical Mapping

9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
1	124	SW	377558 411063	Railway Sidings	1930
2A	225	SW	377521 410950	Tramway Sidings	1939
3A	225	SW	377521 410950	Railway Sidings	1930

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary?	No
Have any historical railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary?	No
Have any active railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project?	No
Is the study site within 500m of the route of the Crossrail 1 rail project?	No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

Contact Details

Groundsure Helpline

Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries

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Keyworth, Nottingham NG12 5GG
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Fax: 0115 936 3276.
Email:**enquiries@bgs.ac.uk**
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries

British Gypsum

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Leicestershire
LE12 6HX

The Coal Authority

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Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Public Health England

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https://www.gov.uk/government/organisations/public-health-england
Email: **enquiries@phe.gov.uk**
Main switchboard: 020 7654 8000

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Website: **www.jpb.co.uk**

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS

Tel: 08456 050505
Website: http://www.ordnancesurvey.co.uk/

Getmapping PLC

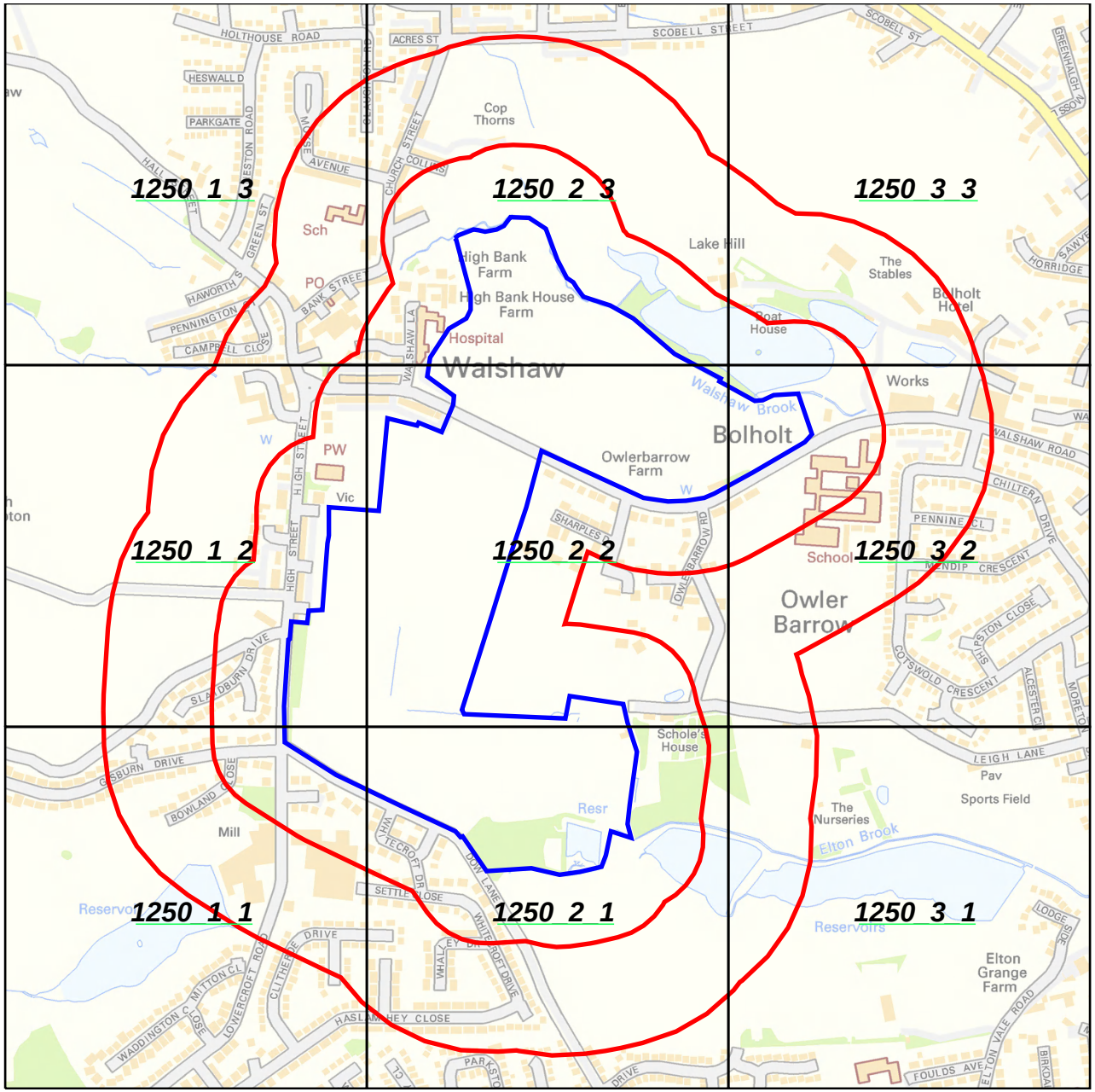
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Tel: 01252 845444
Website:**http://www1.getmapping.com/**

Peter Brett Associates
Caversham Bridge House
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Berkshire RG1 8DN
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Website:**http://www.peterbrett.com/home**

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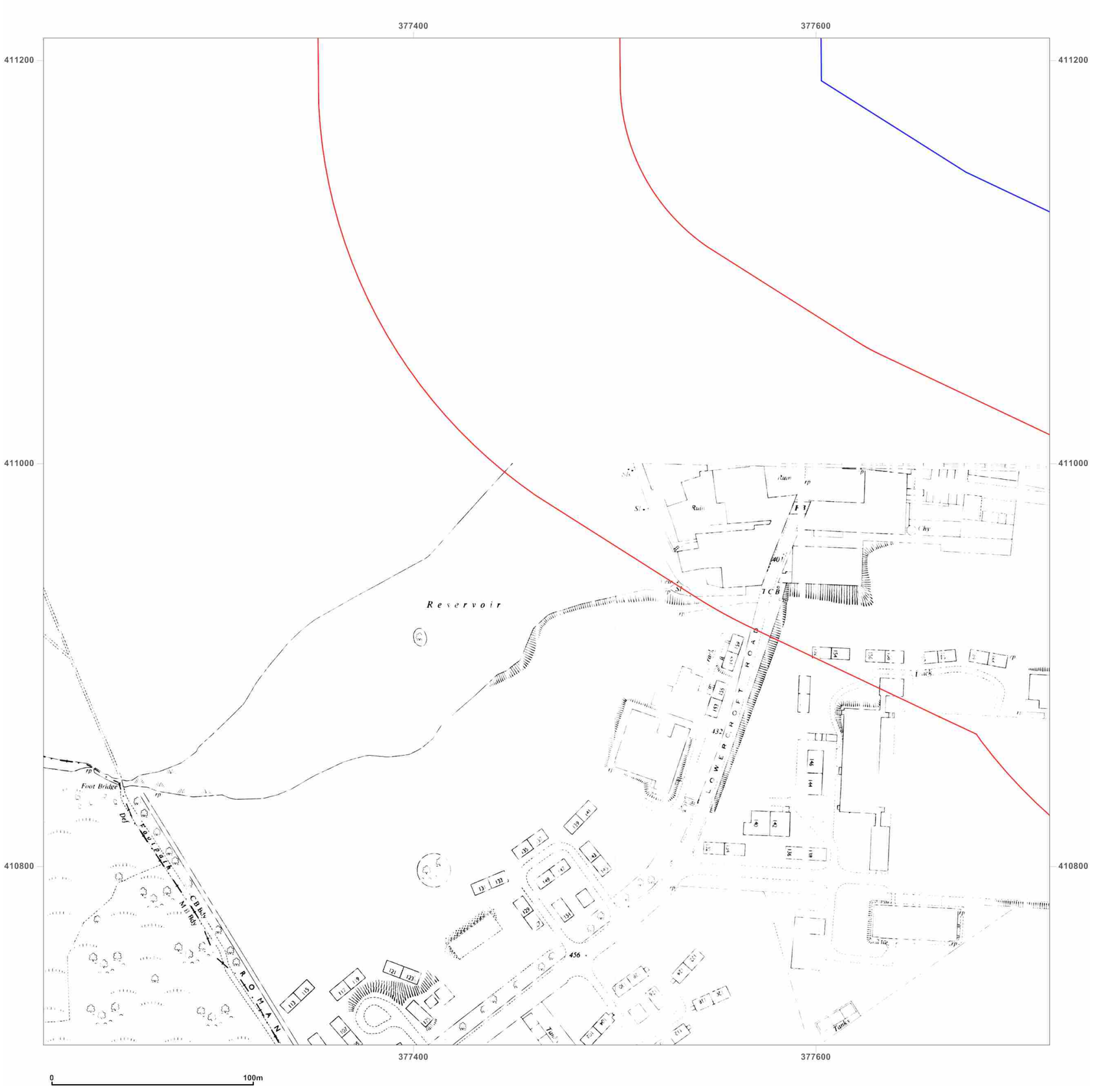
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https://www.groundsure.com/terms-and-conditions-feb11-2019



Groundsure INSIGHTS

1:1250 Scale Grid Index



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid

Map date: **1957**

Scale: 1:1,250

Printed at: 1:2,000

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E: info@groundsure.com
W: www.groundsure.com

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Production date: 21 November 2019

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



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid

Map date: **1956-1959**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1957	Surveyed 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1957
Surveyed 1956 Revised 1956 Edition N/A Copyright N/A Levelled 1928	Surveyed 1956 Revised 1956 Edition N/A Copyright N/A Levelled 1928

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



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid

Map date: **1969-1974**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1958
Revised 1973
Edition N/A
Copyright 1974
Levelled 1962

Surveyed 1956
Revised 1968
Edition N/A
Copyright 1969
Levelled 1962

Surveyed 1956
Revised 1968
Edition N/A
Copyright 1969
Levelled 1962

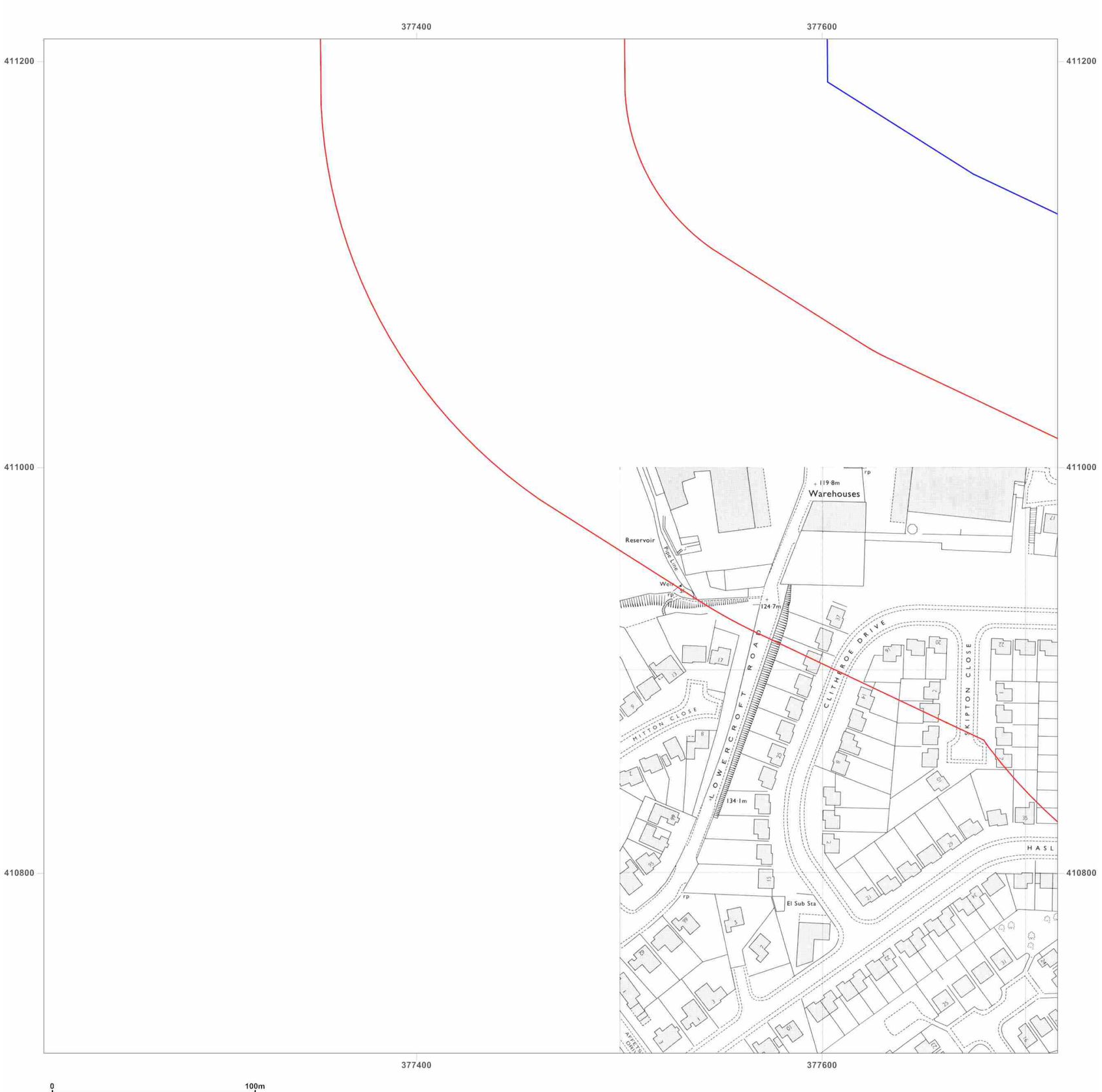
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Production date: 21 November 2019

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



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

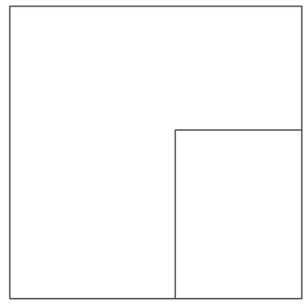
Map Name: National Grid

Map date: **1977**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1956
Revised 1976
Edition N/A
Copyright 1977
Levelled 1962

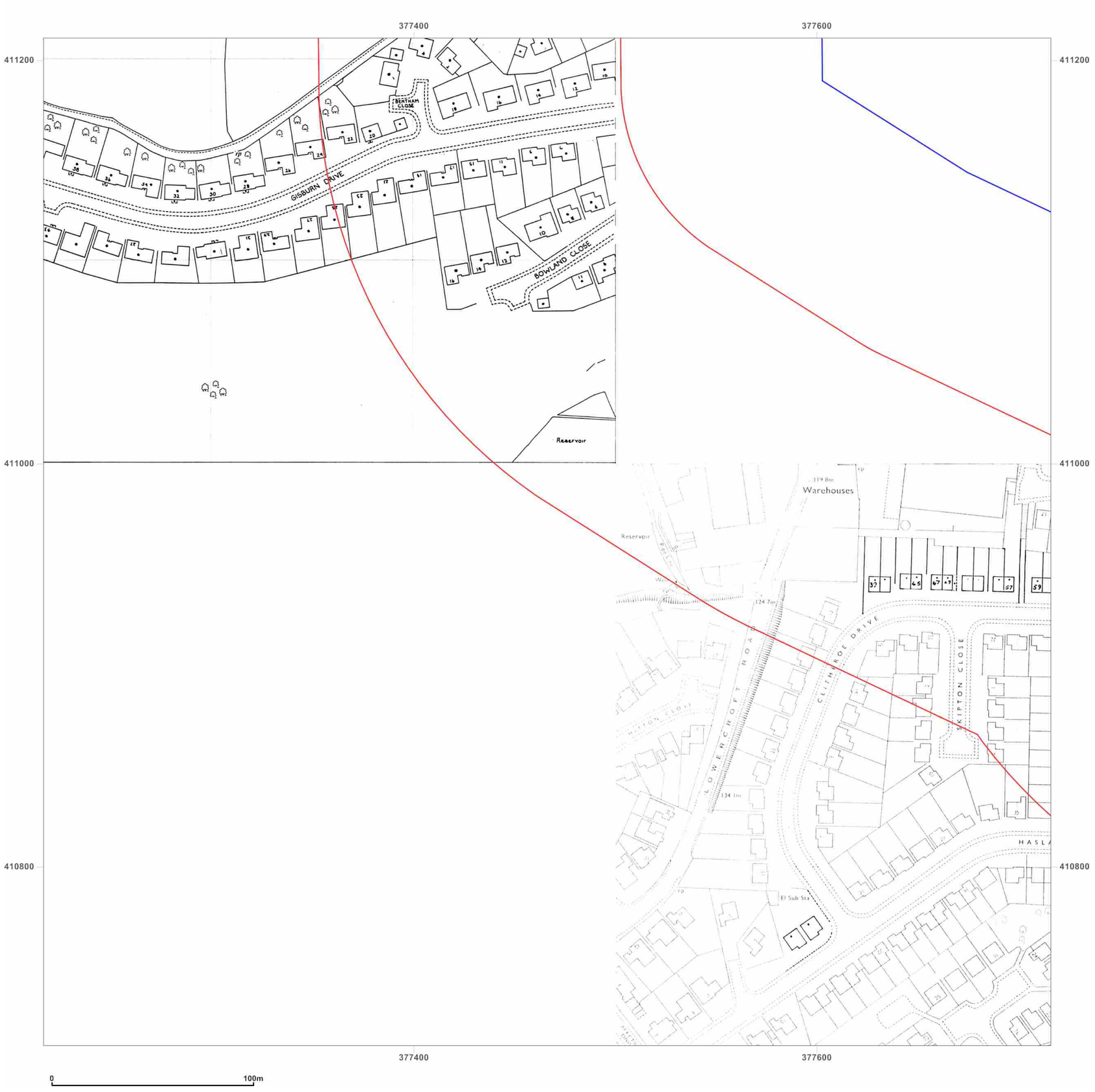
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Production date: 21 November 2019

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



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid

Map date: **1981-1984**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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

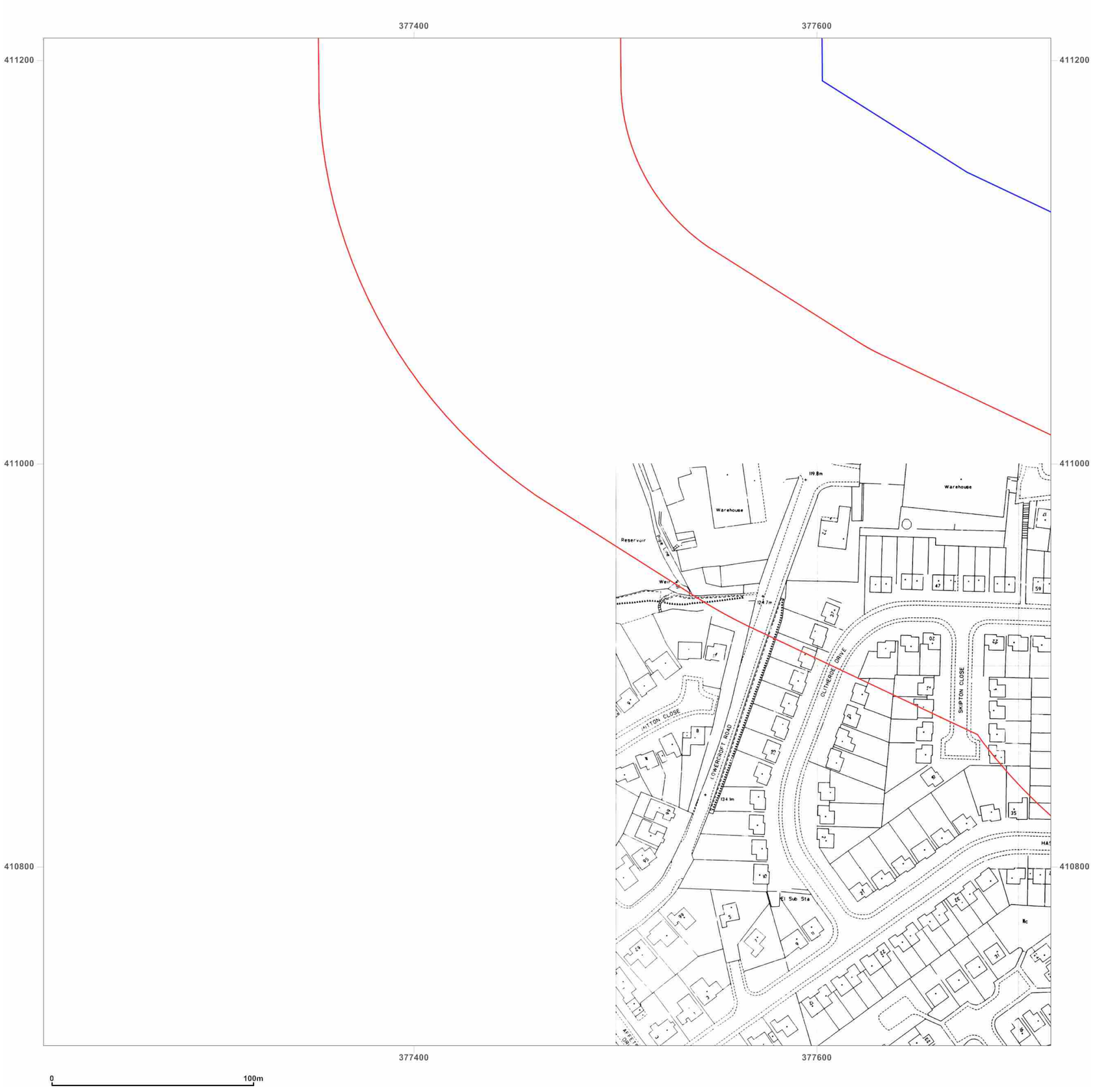
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

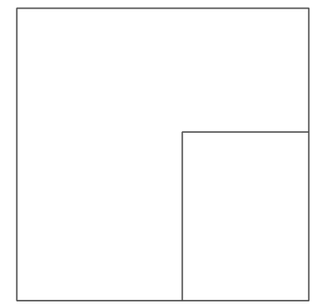
Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

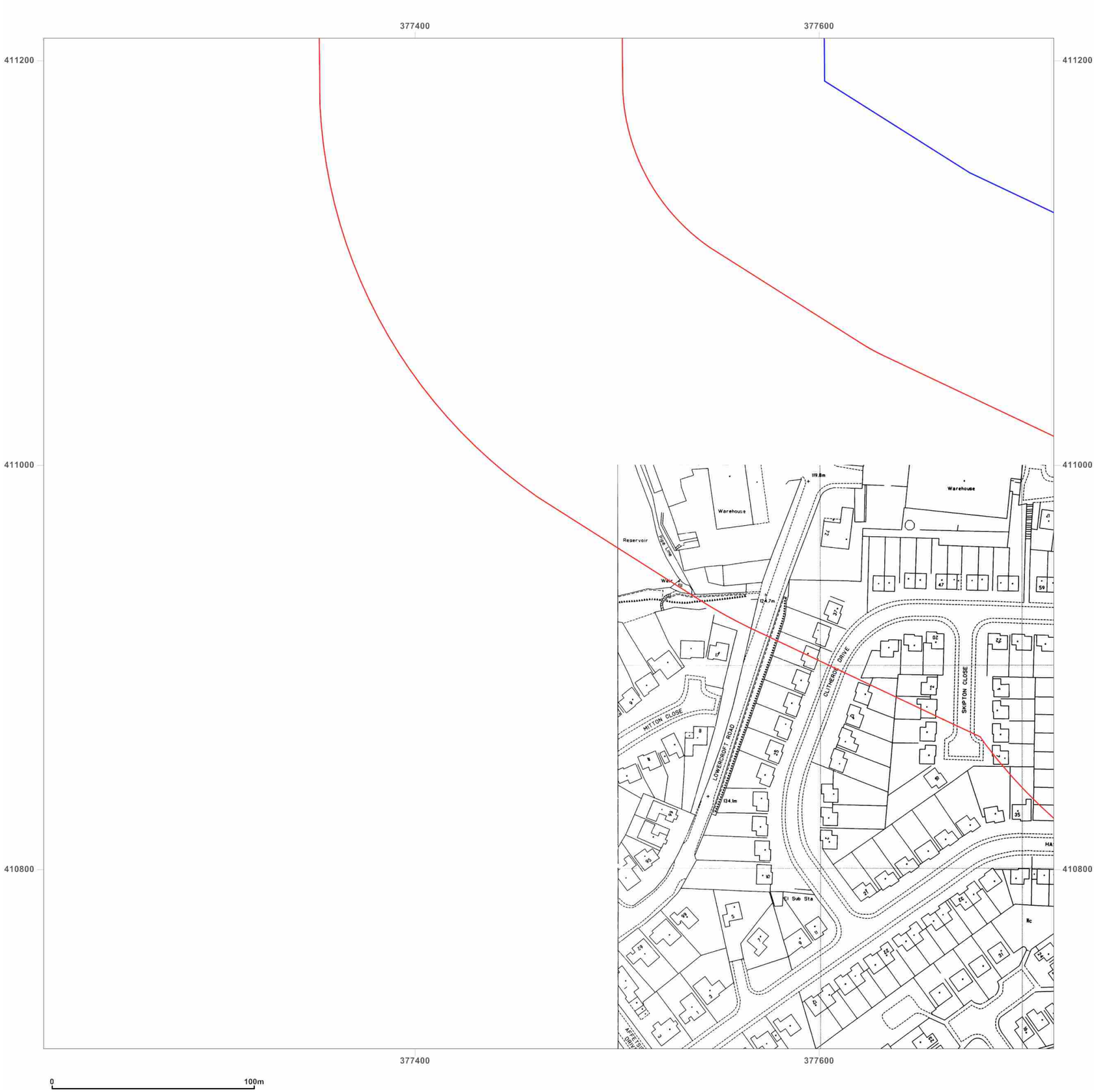
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

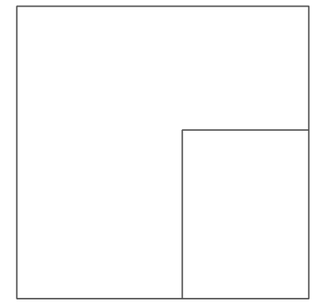
Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

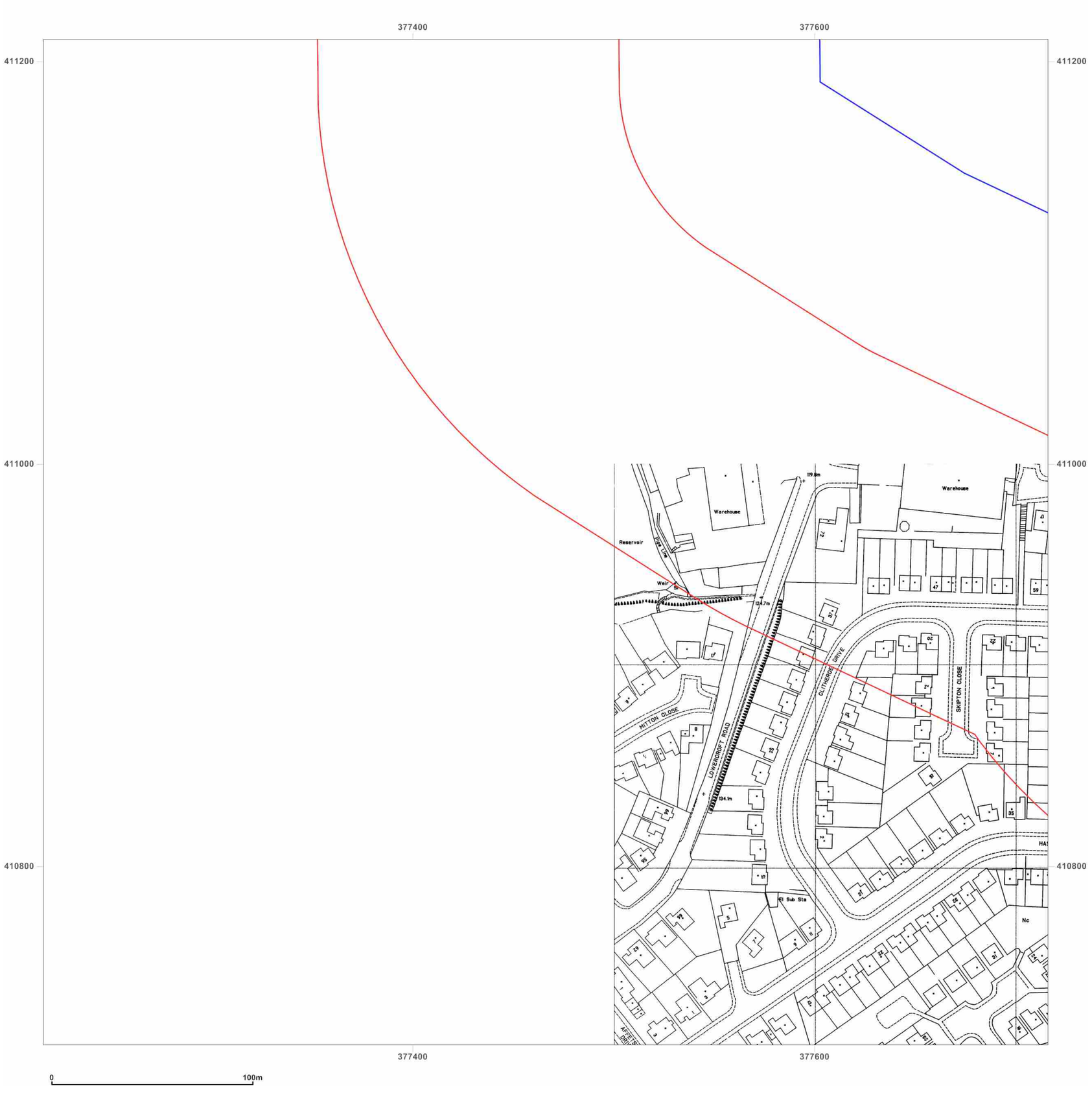
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

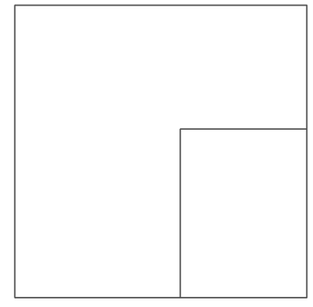
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Map date: **1994**

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Revised 1994
Edition N/A
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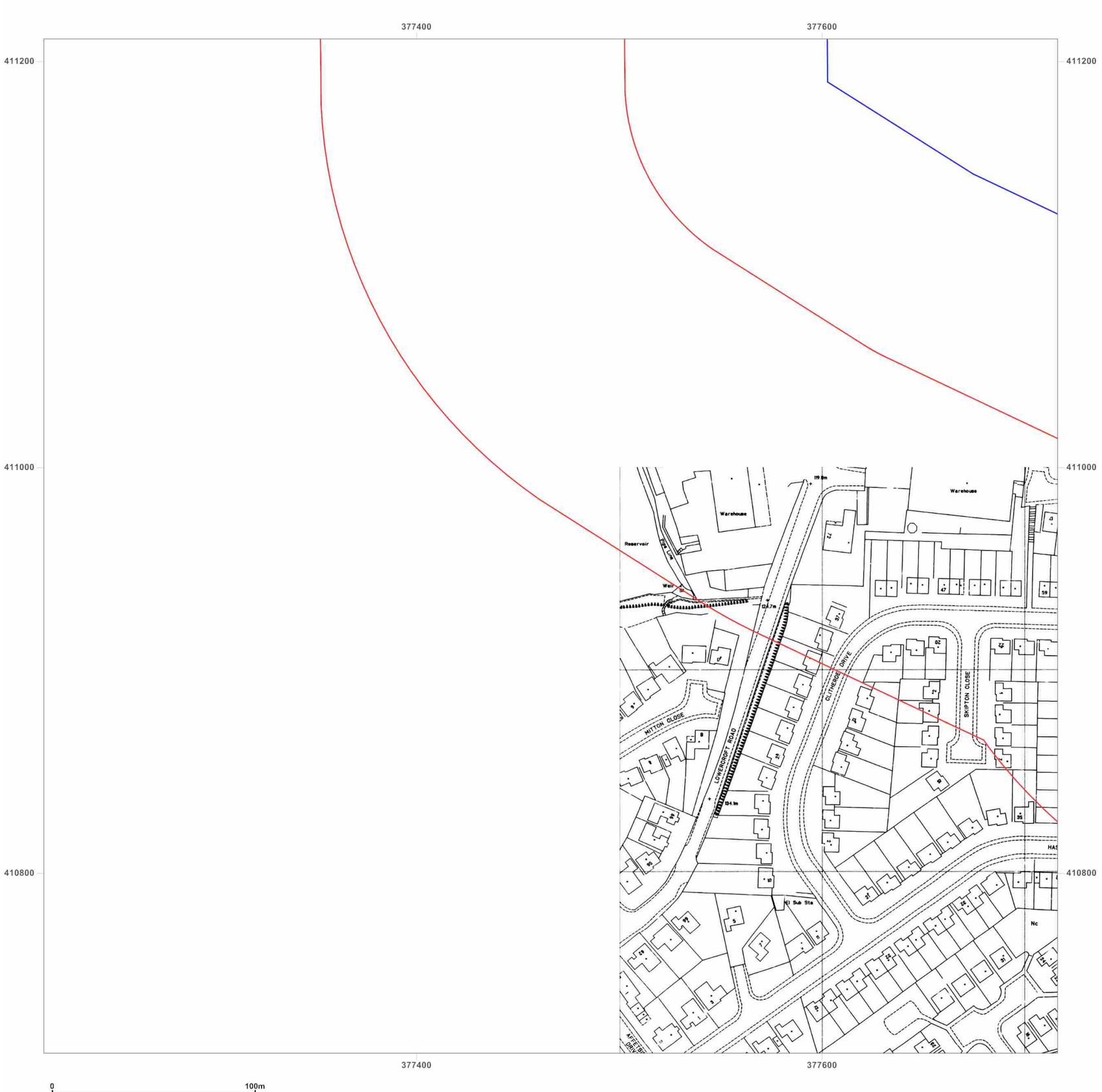
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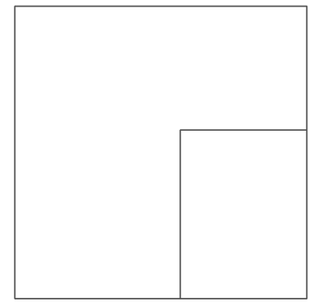
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Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

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

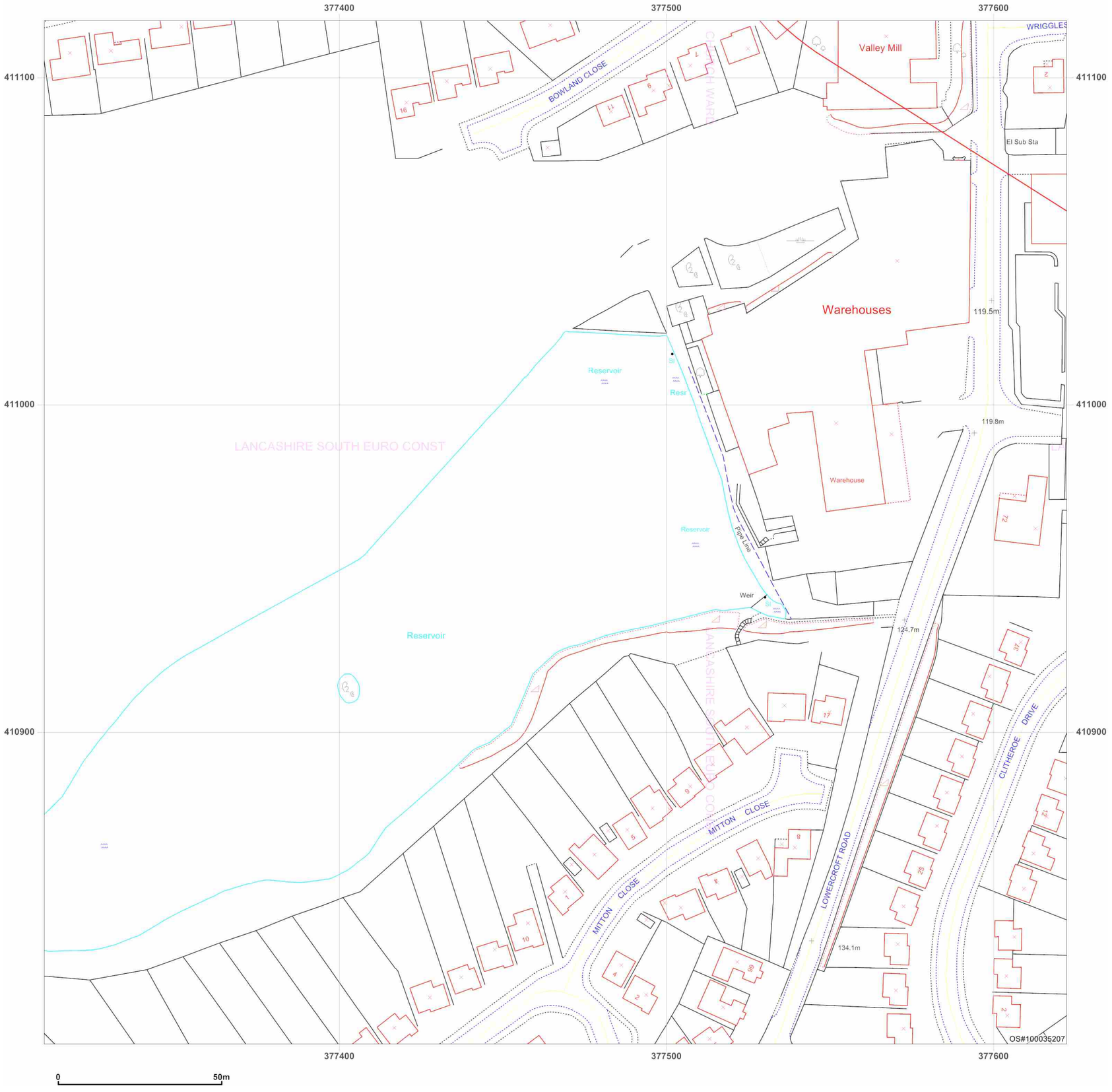
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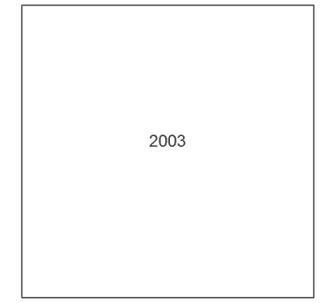
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_1
Grid Ref: 377466, 410961

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

Map date: **1959**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

Map date: **1974-1976**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1962

Surveyed 1958
Revised 1973
Edition N/A
Copyright 1974
Levelled 1962

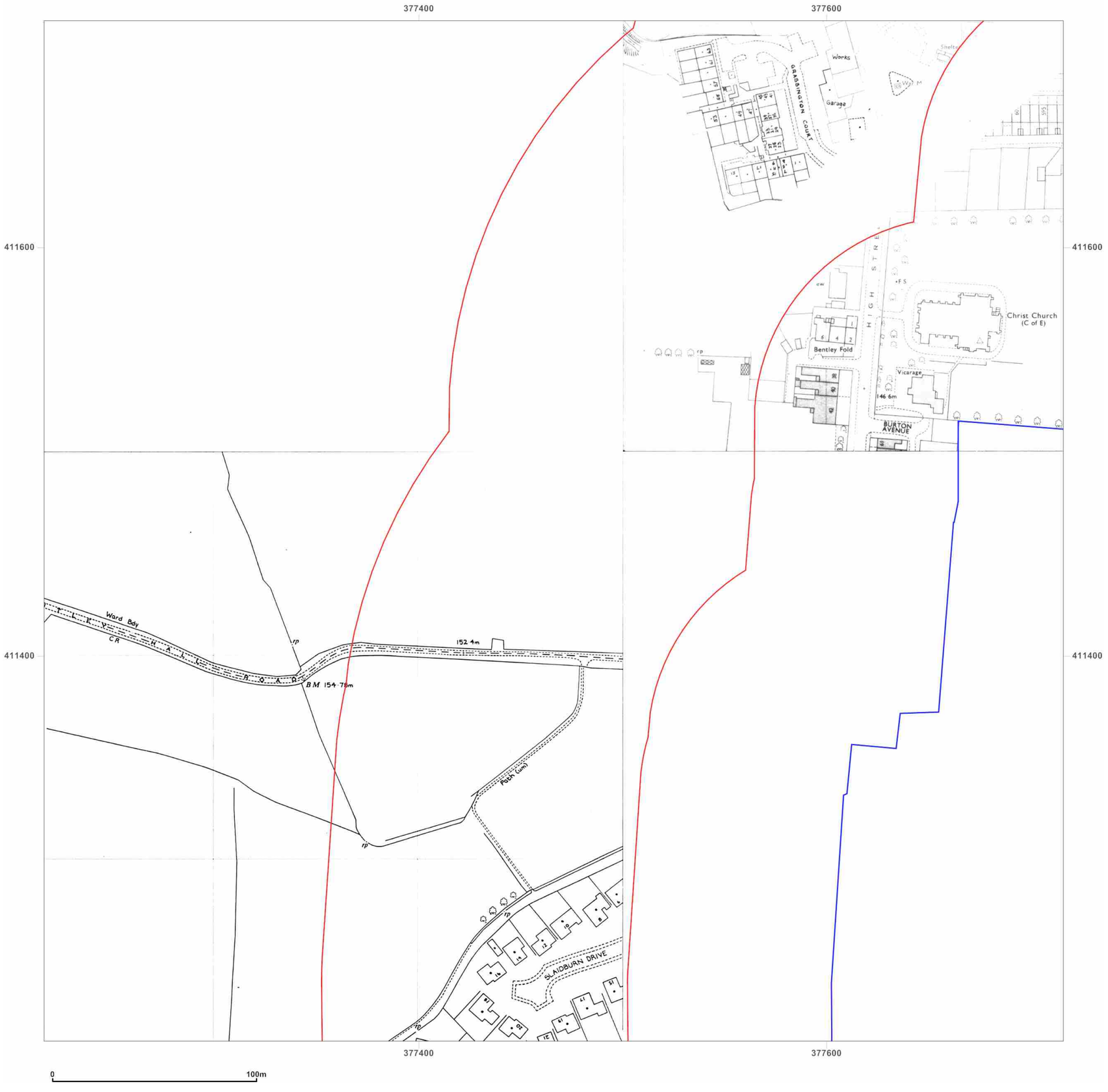
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1984
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

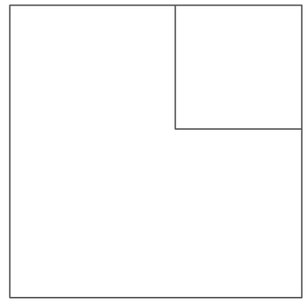
Map date: **1989**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962



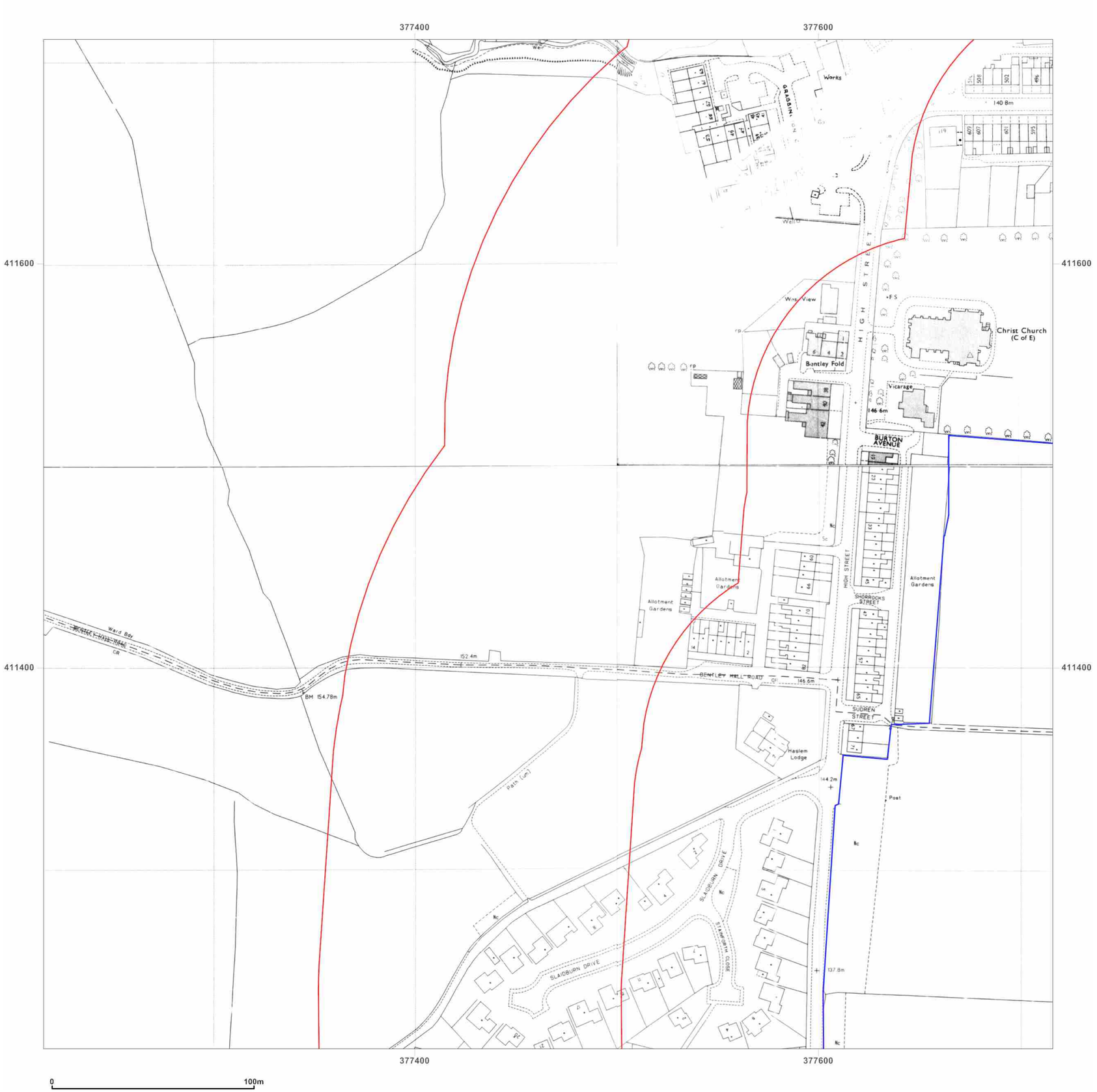
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1992
Edition N/A
Copyright N/A
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Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

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Revised 1992
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

Map Name: National Grid

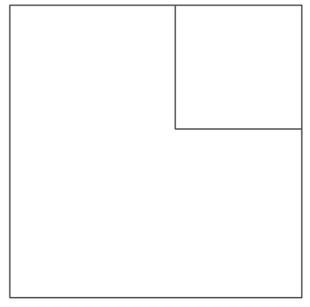
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Scale: 1:1,250

Printed at: 1:2,000

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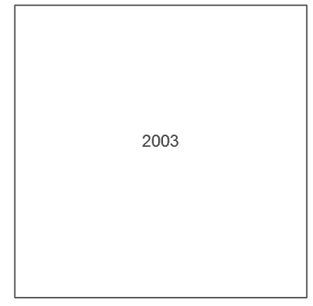
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_2
Grid Ref: 377466, 411461

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

Map Name: National Grid

Map date: **1959-1960**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

Map Name: National Grid

Map date: **1971-1976**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
Edition N/A
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Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1962

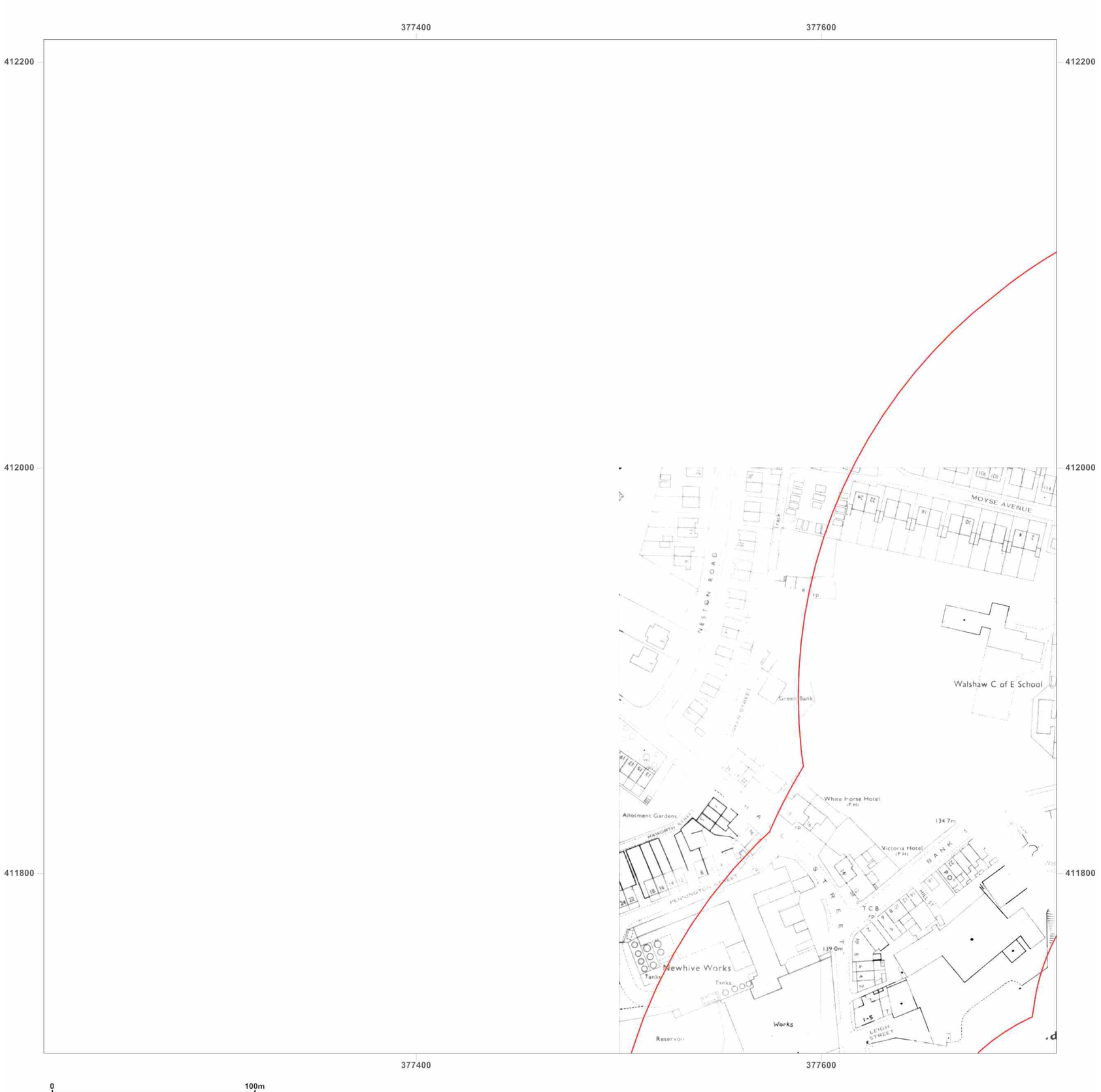
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

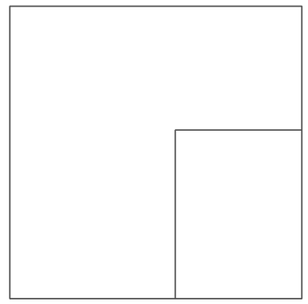
Map Name: National Grid

Map date: **1989**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

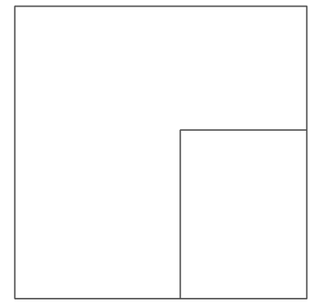
Map Name: National Grid

Map date: **1989**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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

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Edition N/A
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Revised 1989
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

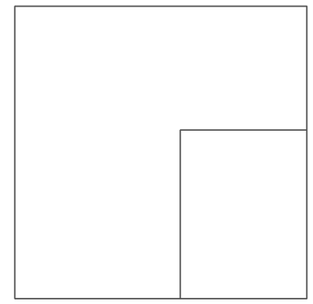
Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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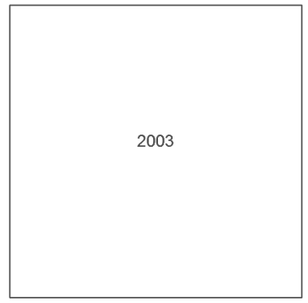
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_1_3
Grid Ref: 377466, 411961

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

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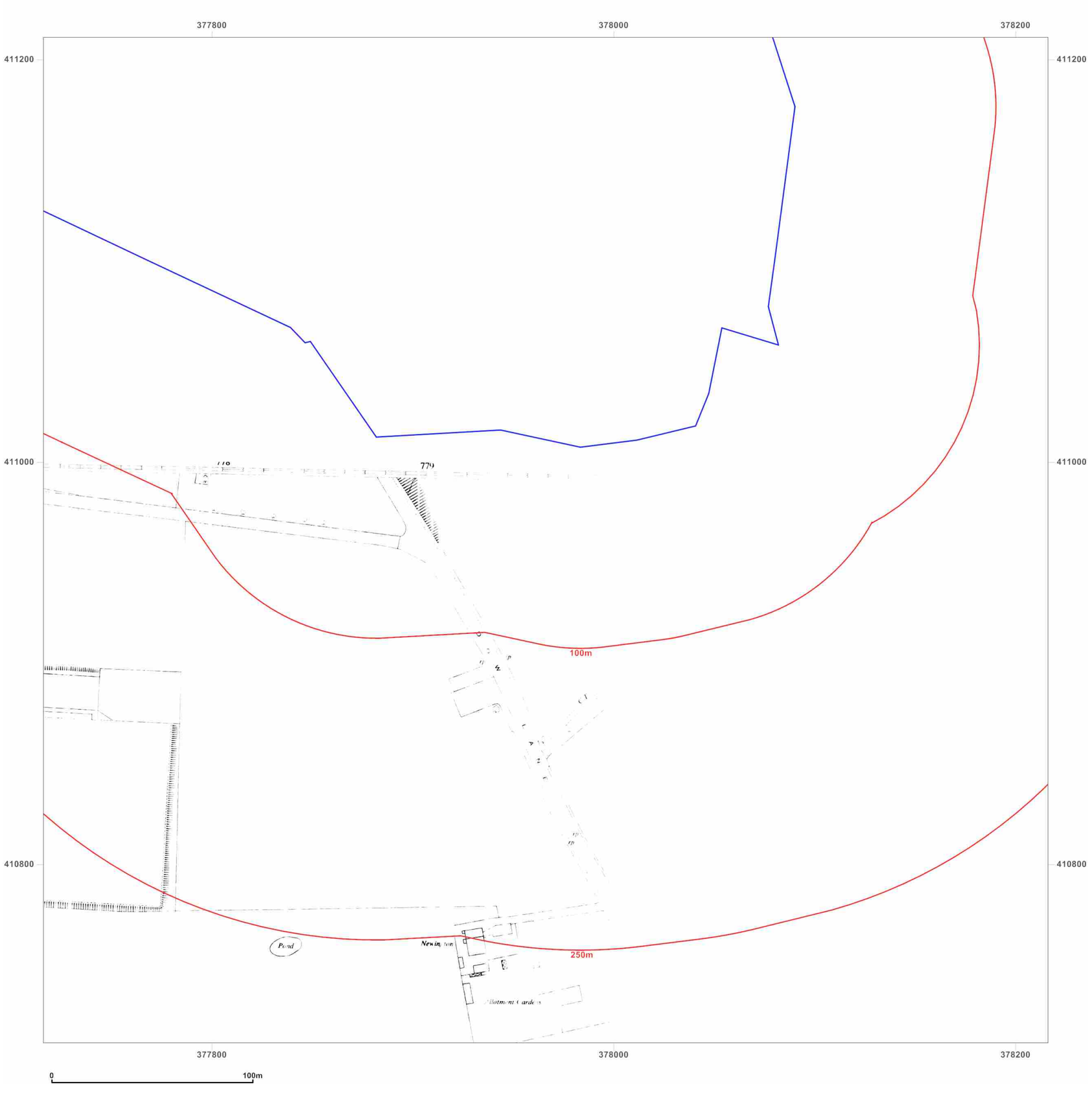
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

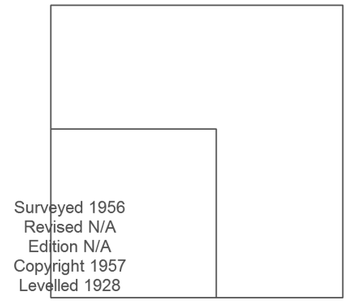
Map Name: National Grid

Map date: **1957**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid

Map date: **1956-1959**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1928

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1927

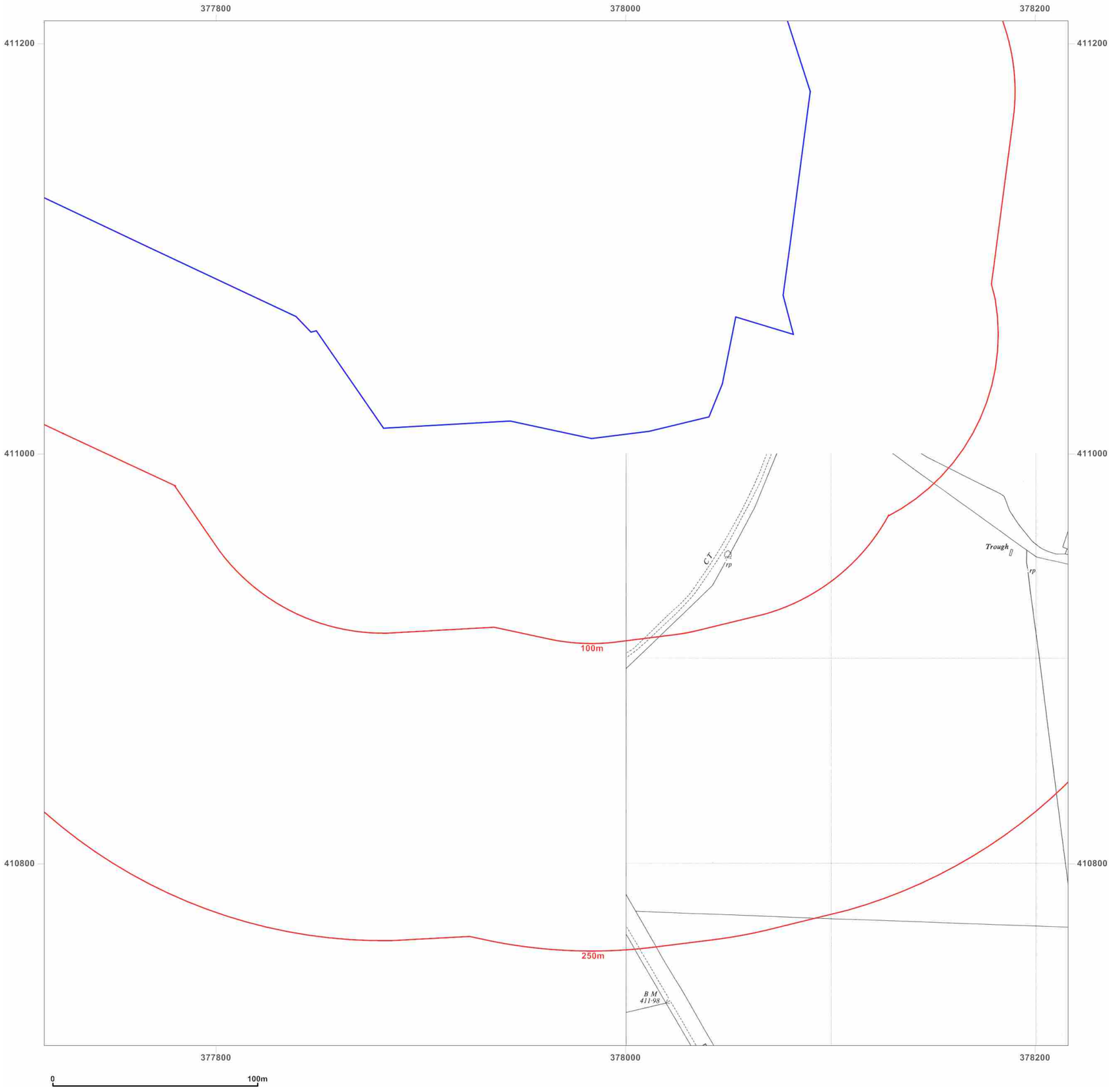
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

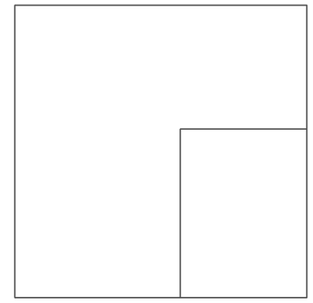
Map Name: National Grid

Map date: **1963**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1963

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid

Map date: **1969-1974**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1958
Revised 1973
Edition N/A
Copyright 1974
Levelled 1962

Surveyed 1956
Revised 1968
Edition N/A
Copyright 1969
Levelled 1962

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid

Map date: **1975-1977**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1976
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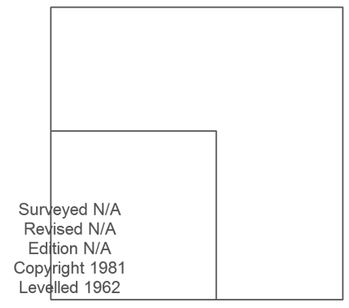
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid
Map date: **1981**
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1992
Revised 1992
Edition N/A
Copyright N/A
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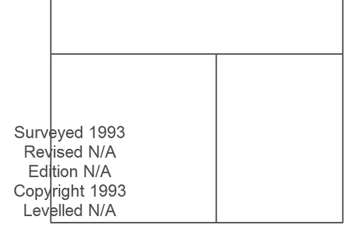
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

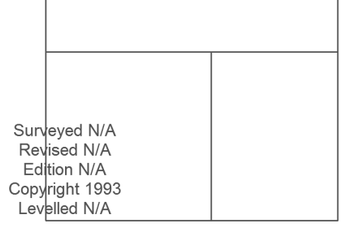
Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid

Map date: **1994-1995**

Scale: 1:1,250

Printed at: 1:2,000

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

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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

Map Name: National Grid
Map date: **1994-1995**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1994		Surveyed 1995
Revised N/A		Revised N/A
Edition N/A		Edition N/A
Copyright 1994		Copyright 1995
Levelled N/A		Levelled N/A

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_1
Grid Ref: 377966, 410961

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

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2003

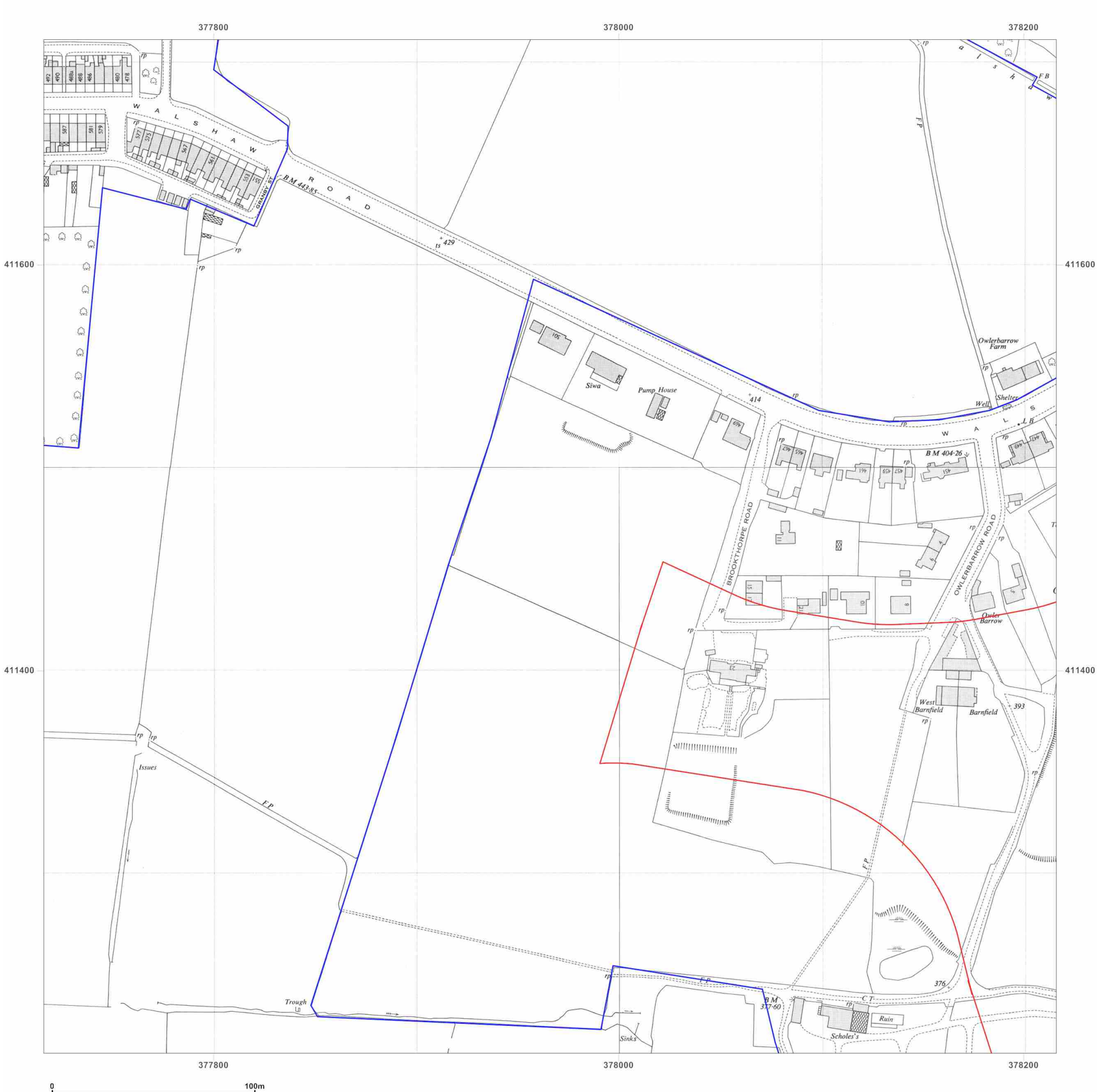
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid

Map date: **1959**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

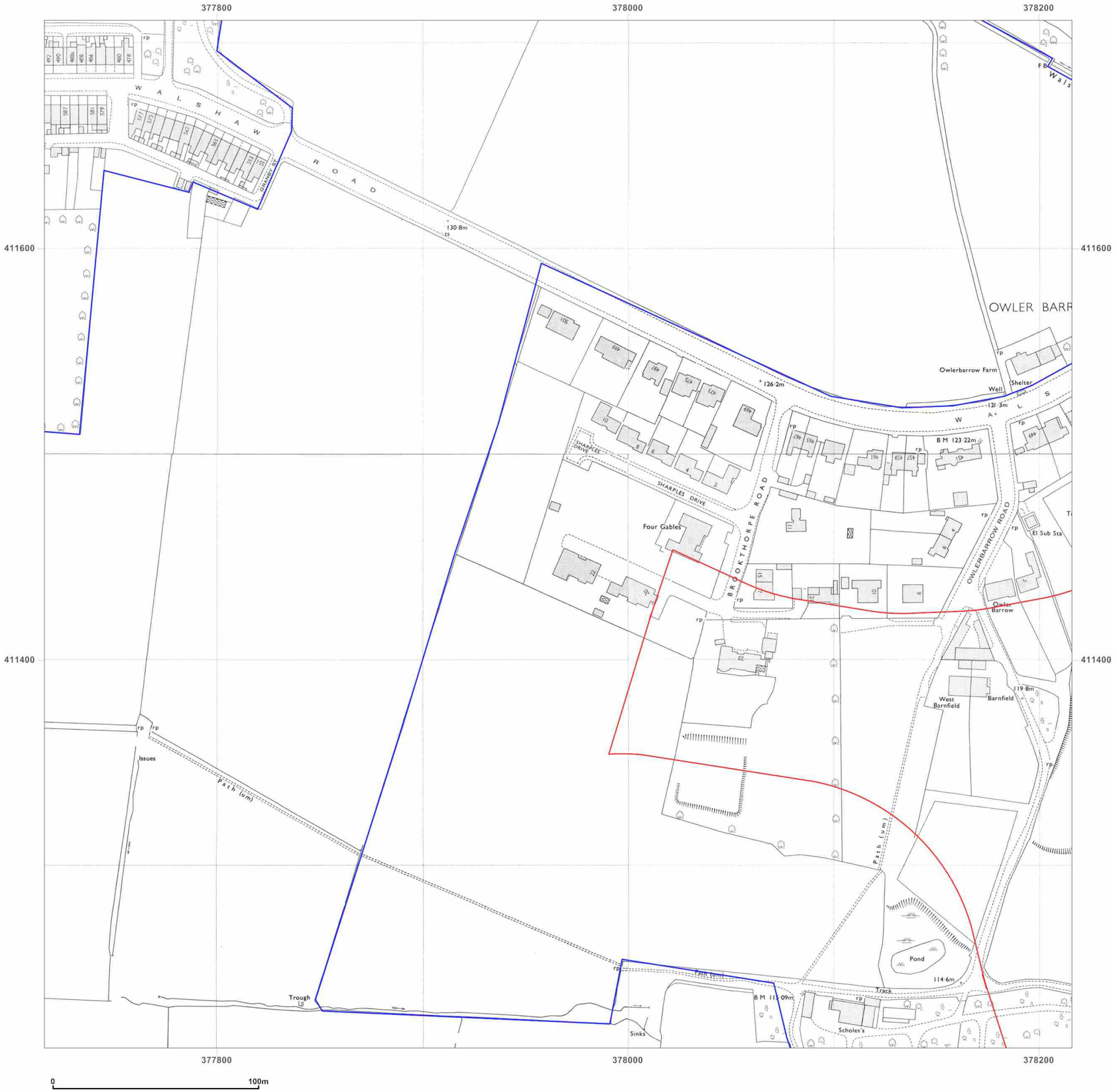
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid
Map date: **1974-1975**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1962

Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1962

Surveyed 1958
Revised 1973
Edition N/A
Copyright 1974
Levelled 1962

Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1957

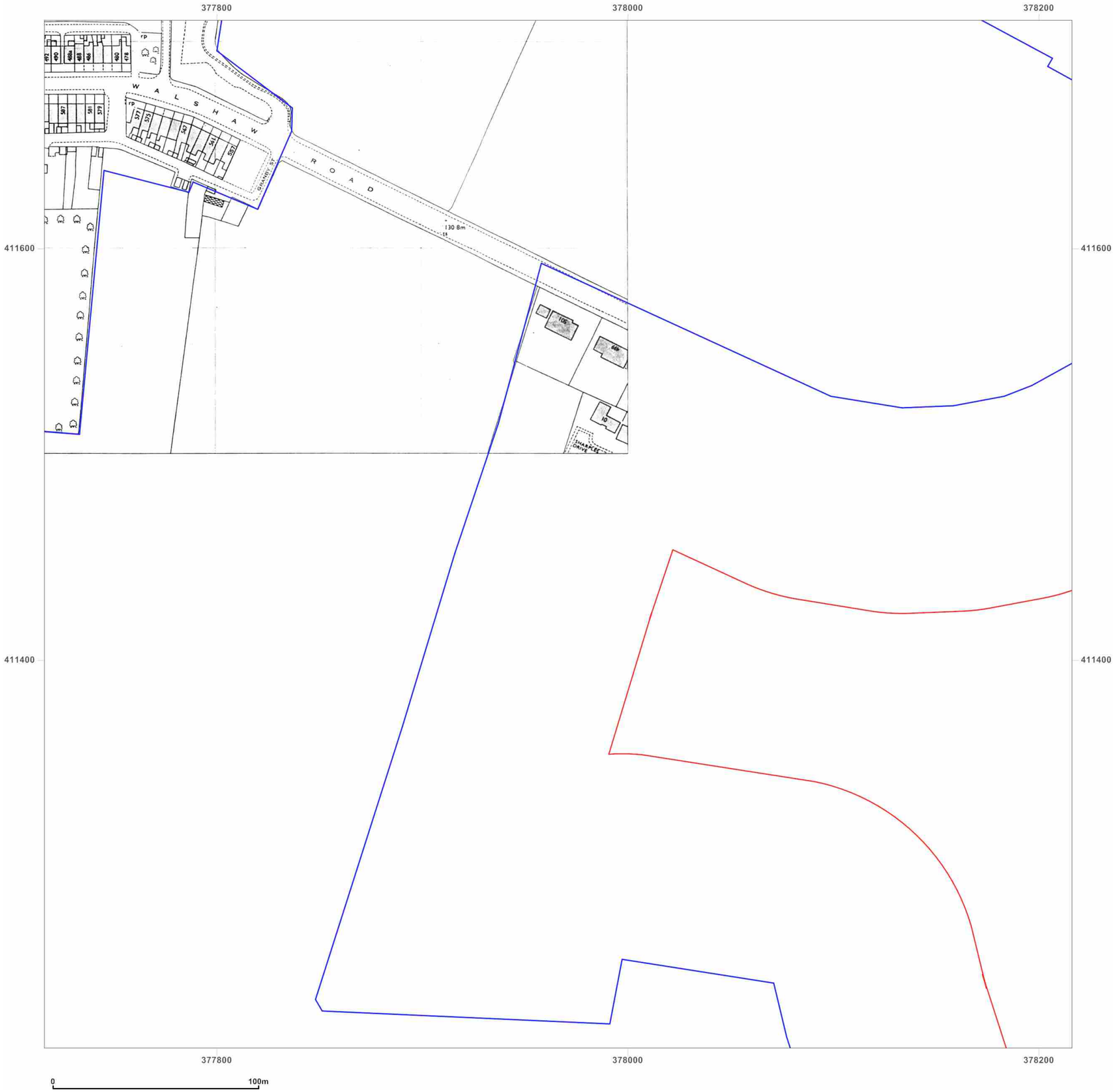
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid

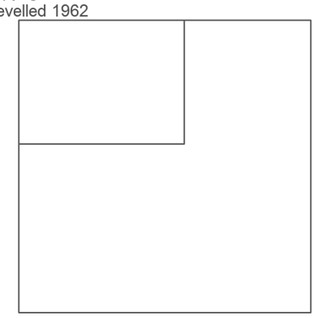
Map date: **1989**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962



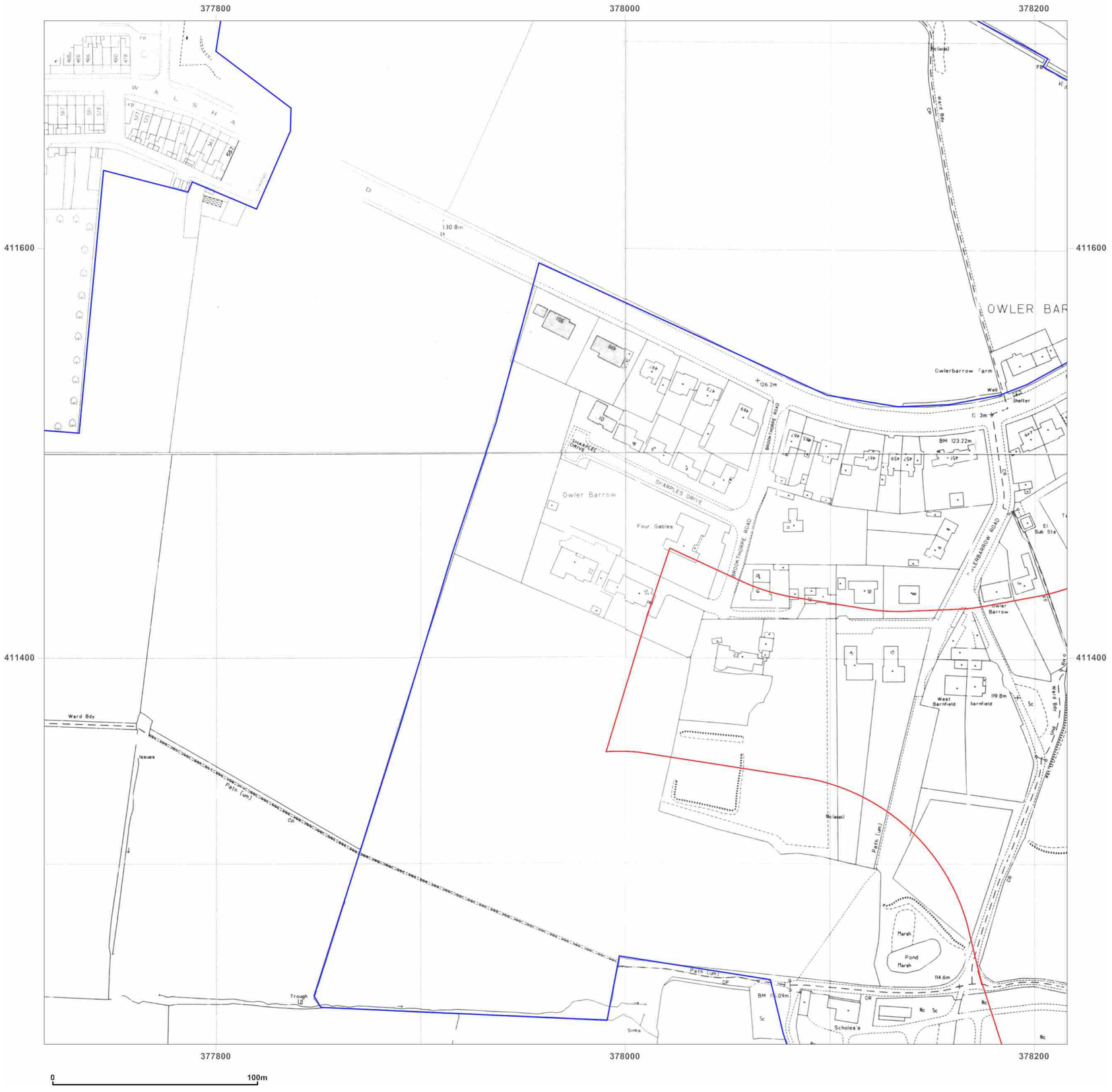
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

Surveyed 1991
Revised 1991
Edition N/A
Copyright N/A
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Surveyed 1992
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid

Map date: **1989-1992**

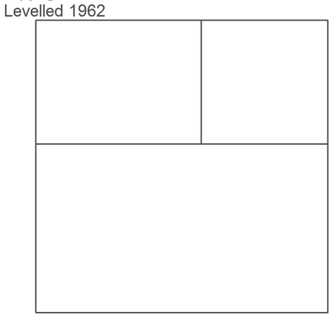
Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

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



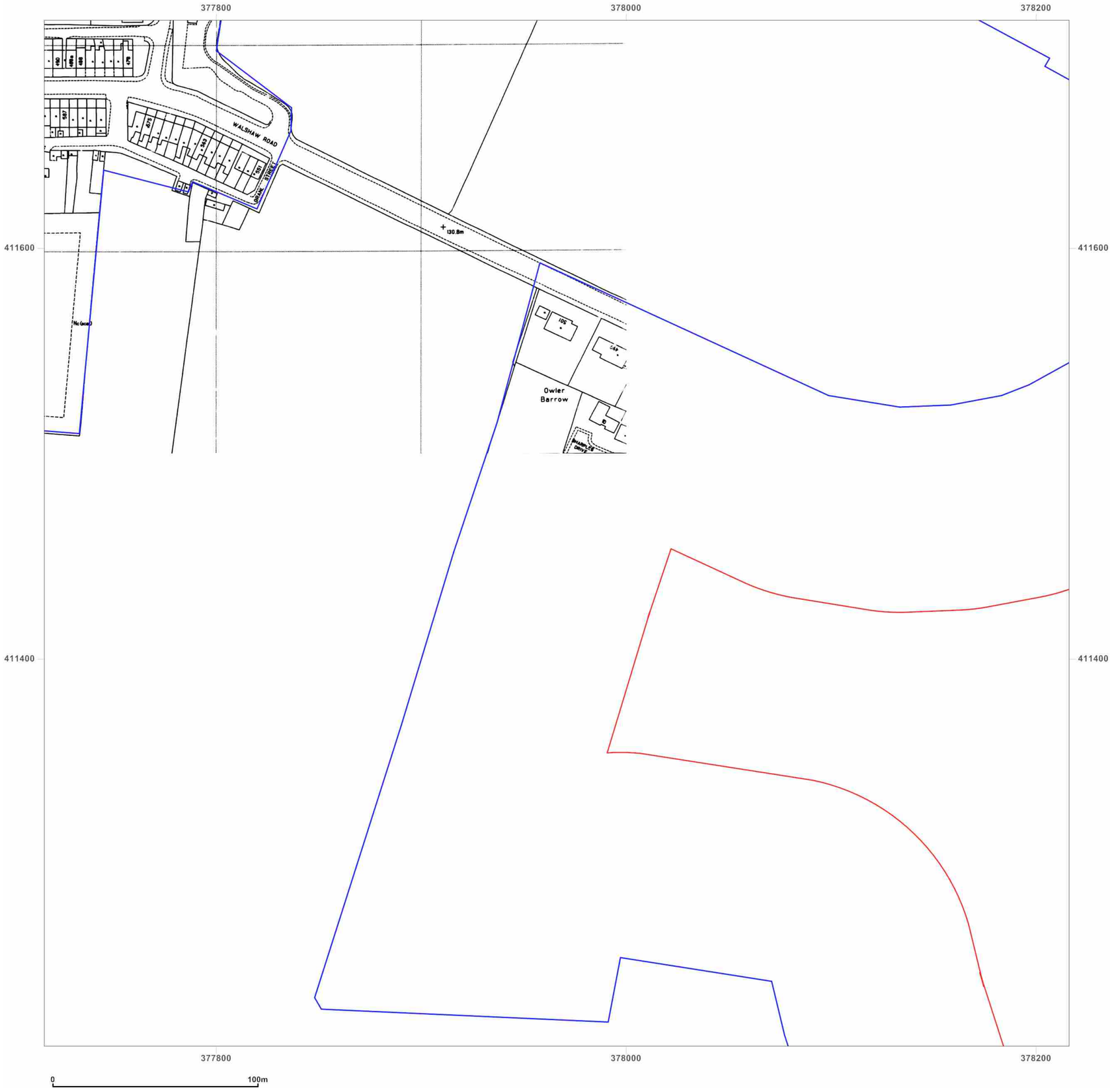
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

Map Name: National Grid

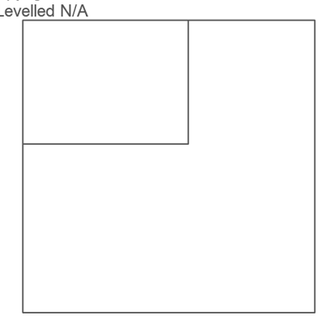
Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1992
Revised N/A
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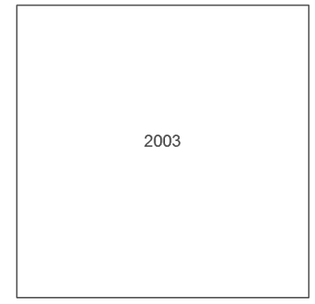
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_2
Grid Ref: 377966, 411461

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

Map date: **1959-1960**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1959
Edition N/A
Copyright 1960
Levelled 1957

Surveyed 1959
Revised N/A
Edition N/A
Copyright 1960
Levelled 1957

Surveyed 1959
Revised 1959
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Copyright 1959
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

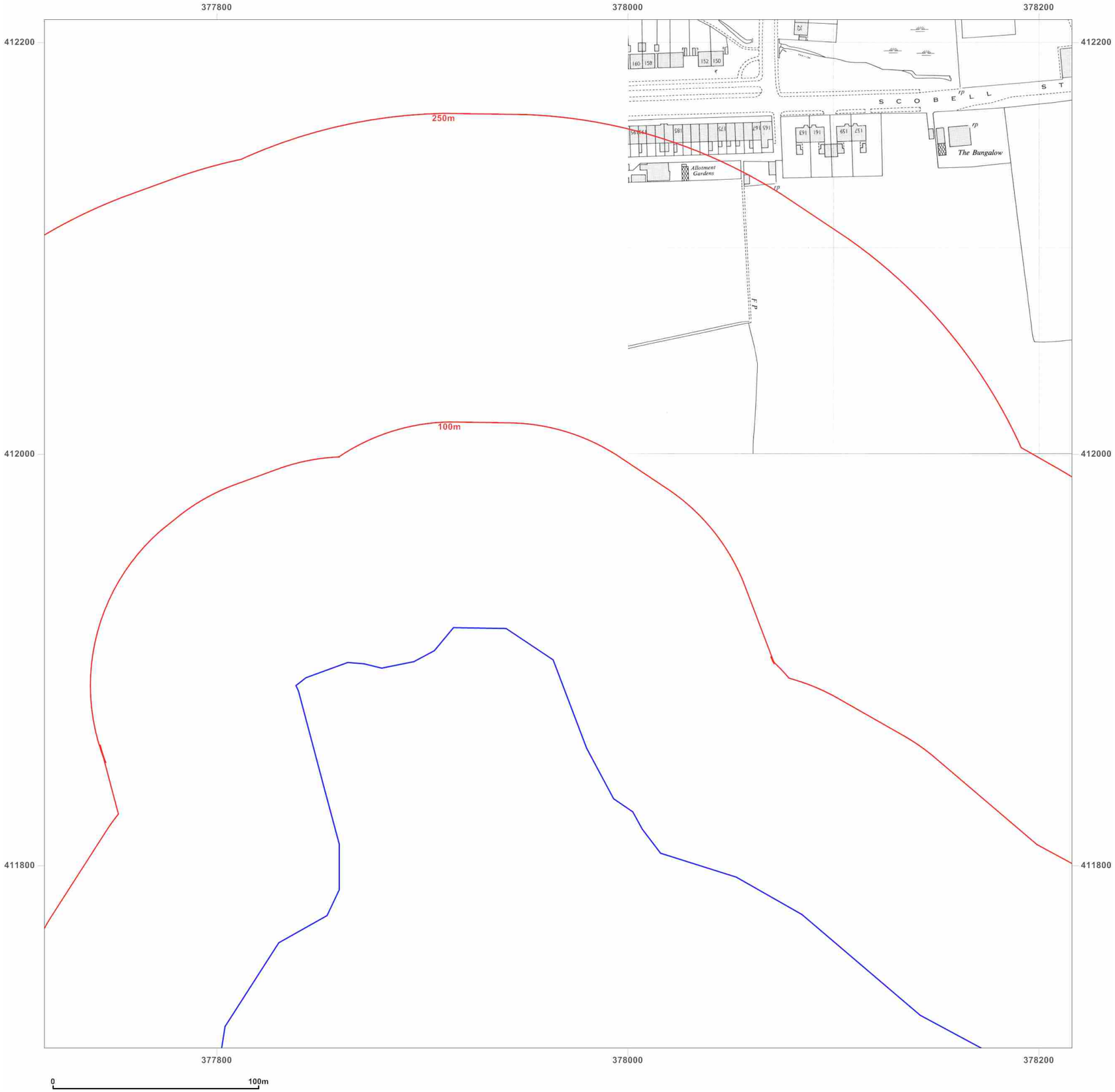
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

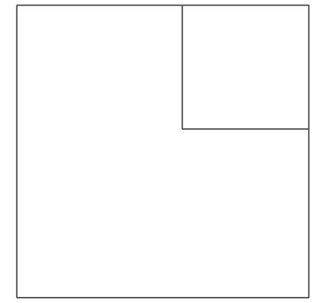
Map date: **1960**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957



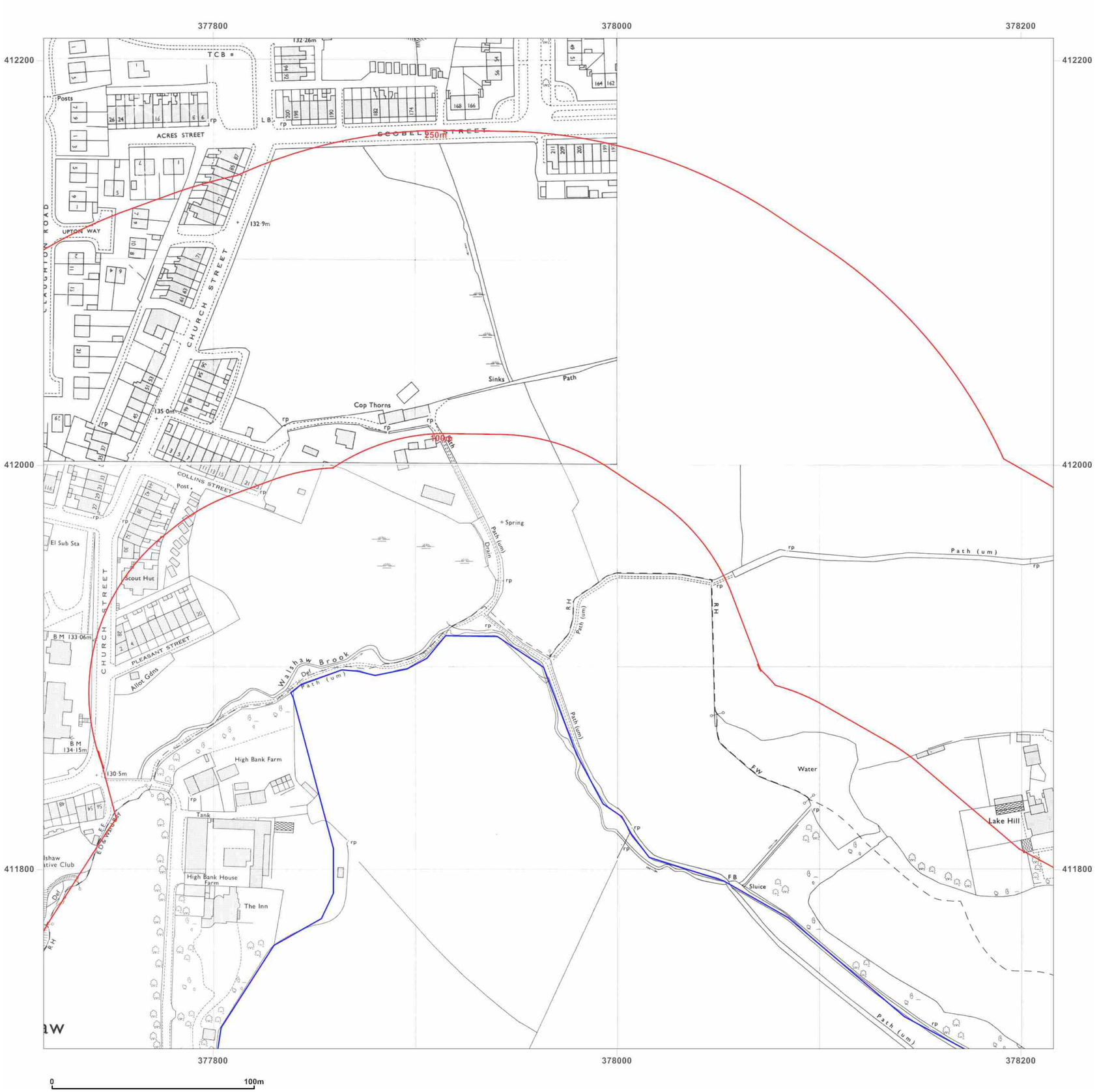
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

Map date: **1971-1975**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1959 Revised 1974 Edition N/A Copyright 1975 Levelled 1962	Surveyed 1959 Revised 1974 Edition N/A Copyright 1975 Levelled 1962

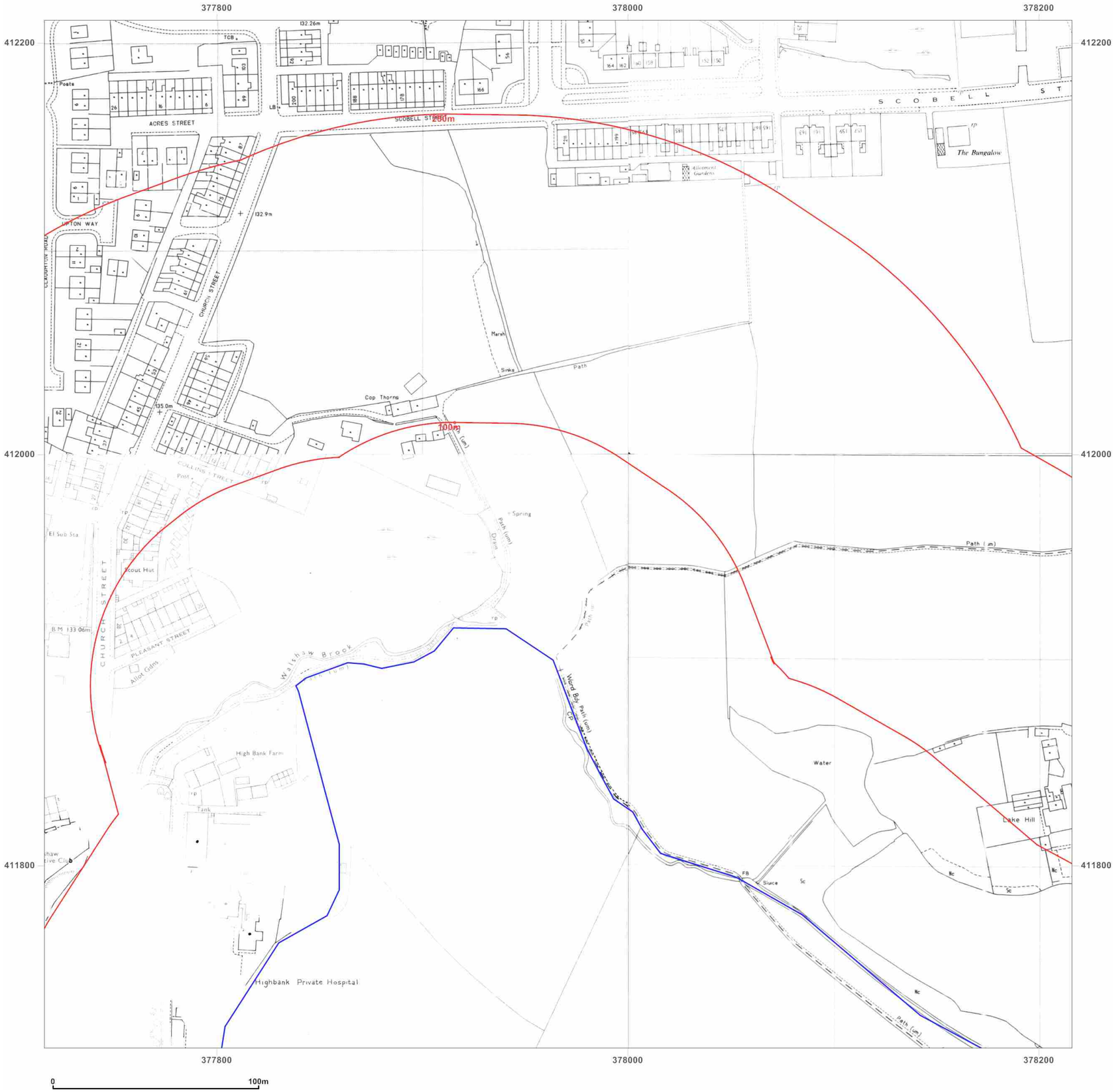
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1992 Revised 1992 Edition N/A Copyright N/A Levelled N/A	Surveyed 1962 Revised 1988 Edition N/A Copyright 1988 Levelled 1962
Surveyed 1962 Revised 1989 Edition N/A Copyright 1989 Levelled 1962	Surveyed 1991 Revised 1991 Edition N/A Copyright N/A Levelled N/A

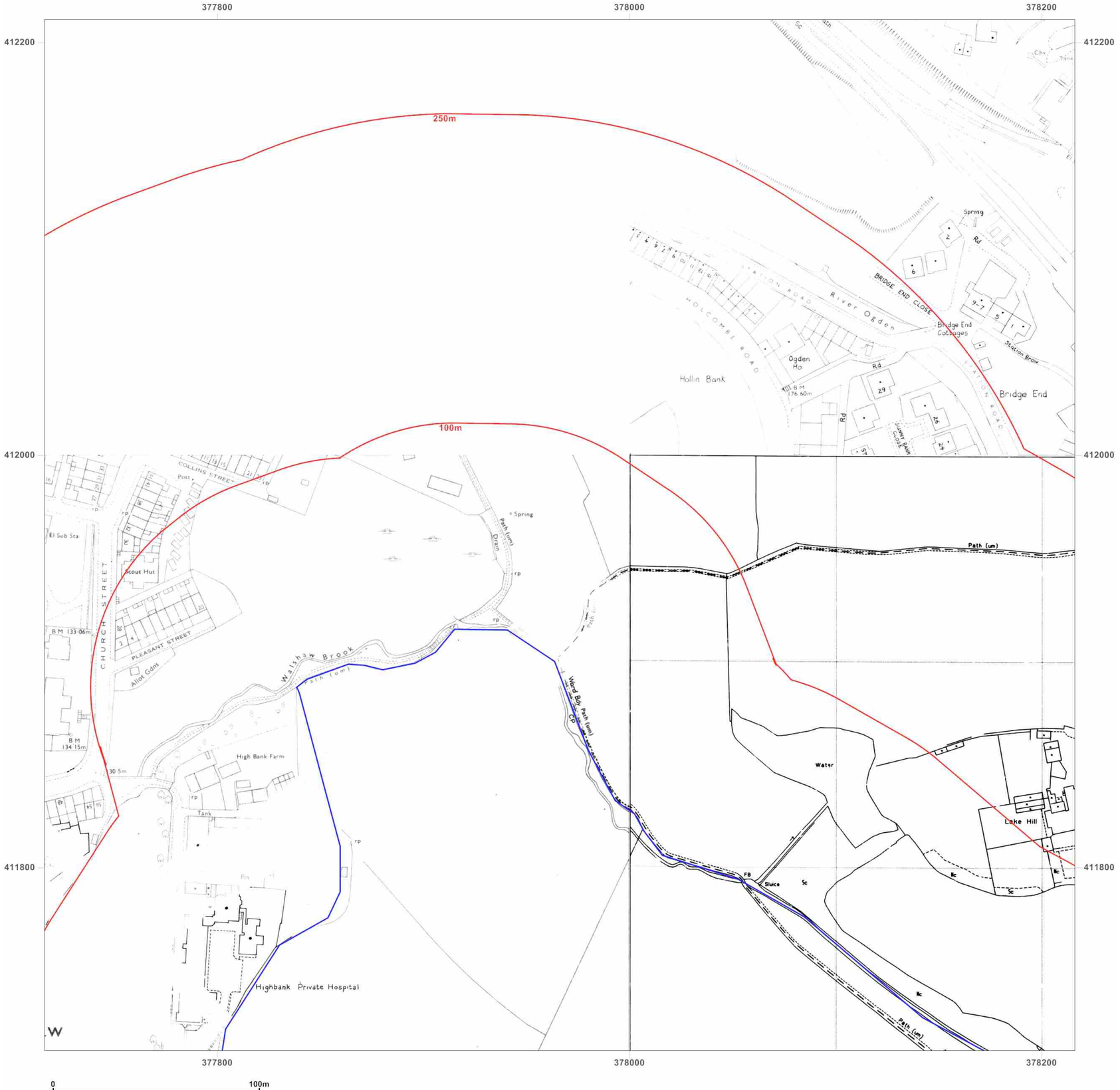
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1962
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Copyright 1989
Levelled 1962

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

Map Name: National Grid

Map date: **1989-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

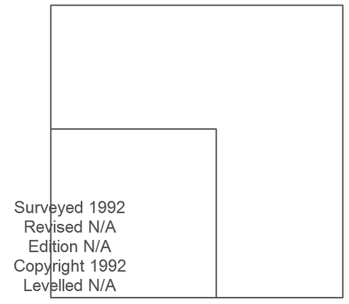
Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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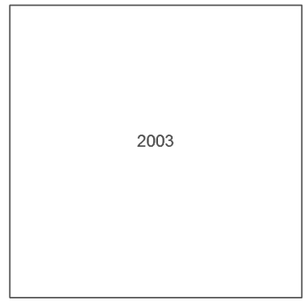
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_2_3
Grid Ref: 377966, 411961

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1957-1959**

Scale: 1:1,250

Printed at: 1:2,000

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Copyright 1959
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Edition N/A
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Revised 1957
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1963-1967**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1963
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1975**

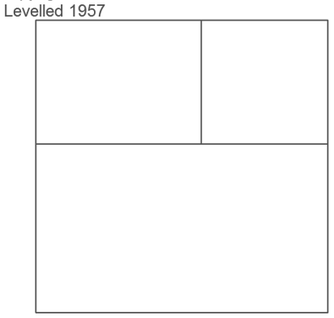
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Printed at: 1:2,000

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Revised 1974
Edition N/A
Copyright 1975
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Revised 1974
Edition N/A
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1957

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

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

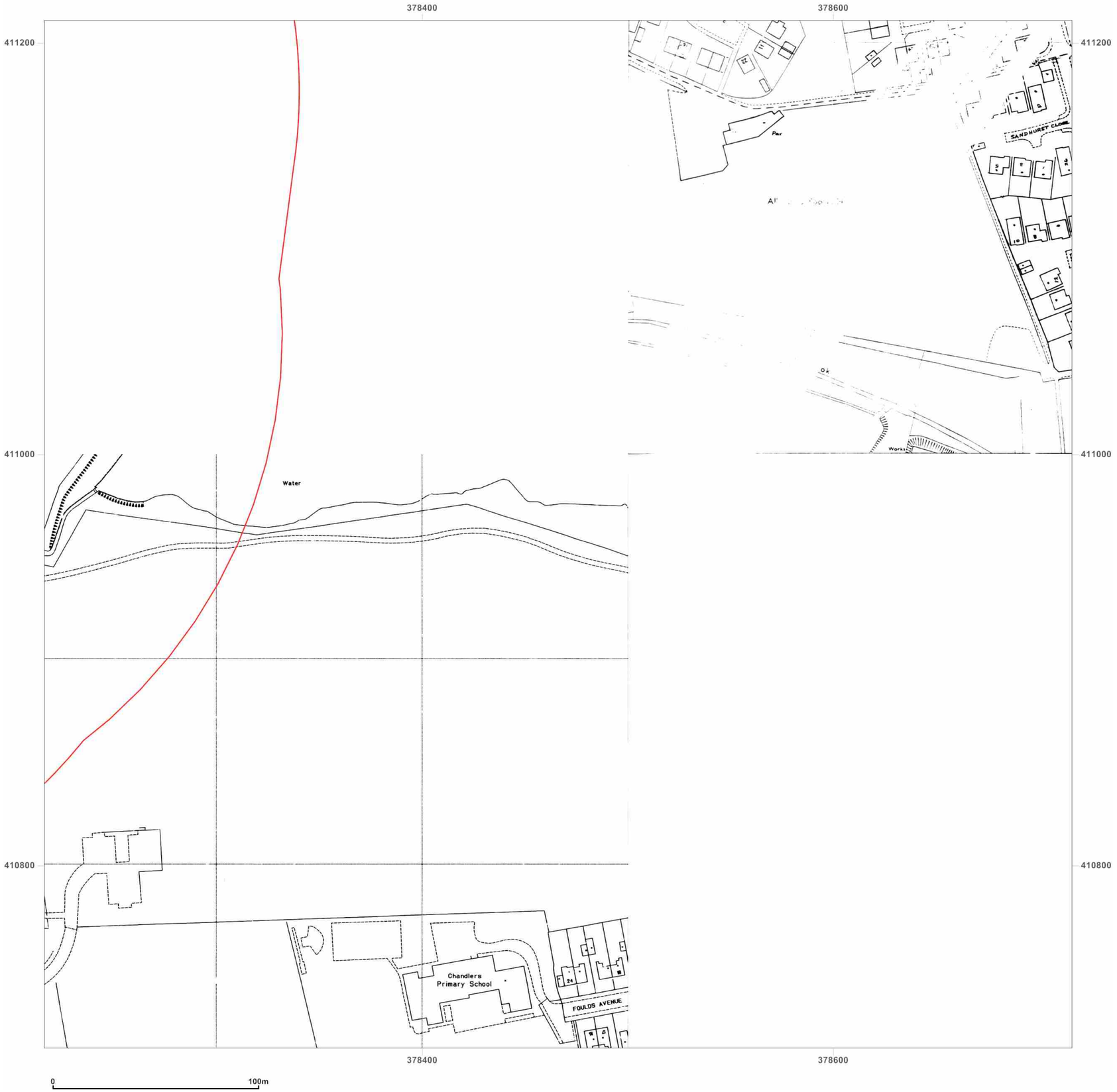
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1991-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid
Map date: **1992-1995**
Scale: 1:1,250
Printed at: 1:2,000

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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid
Map date: **1992-1995**
Scale: 1:1,250
Printed at: 1:2,000

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Revised N/A
Edition N/A
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

Map date: **1994-1995**

Scale: 1:1,250

Printed at: 1:2,000

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

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

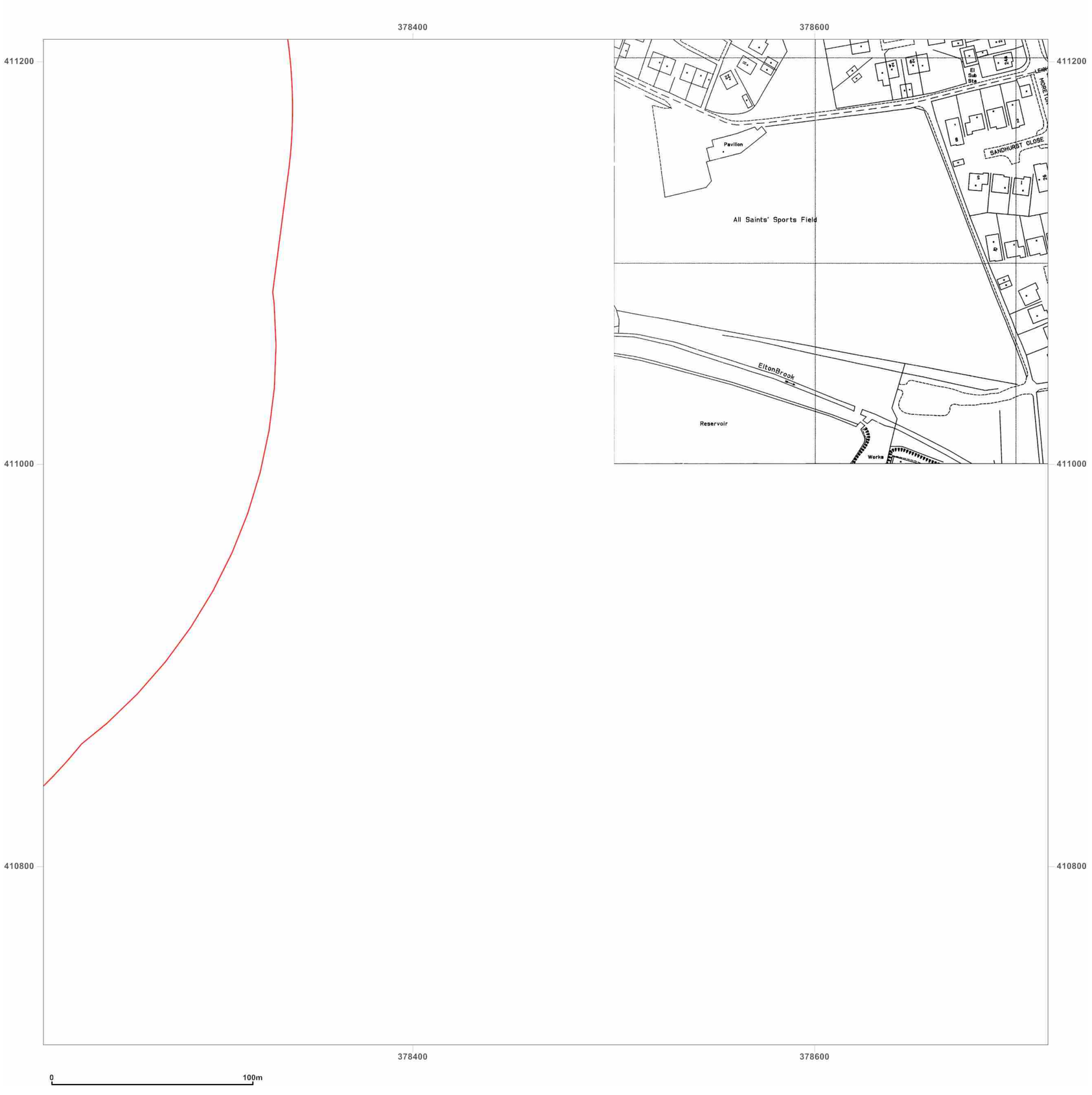
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

Map Name: National Grid

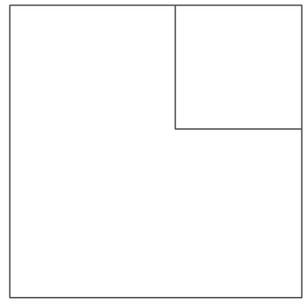
Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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



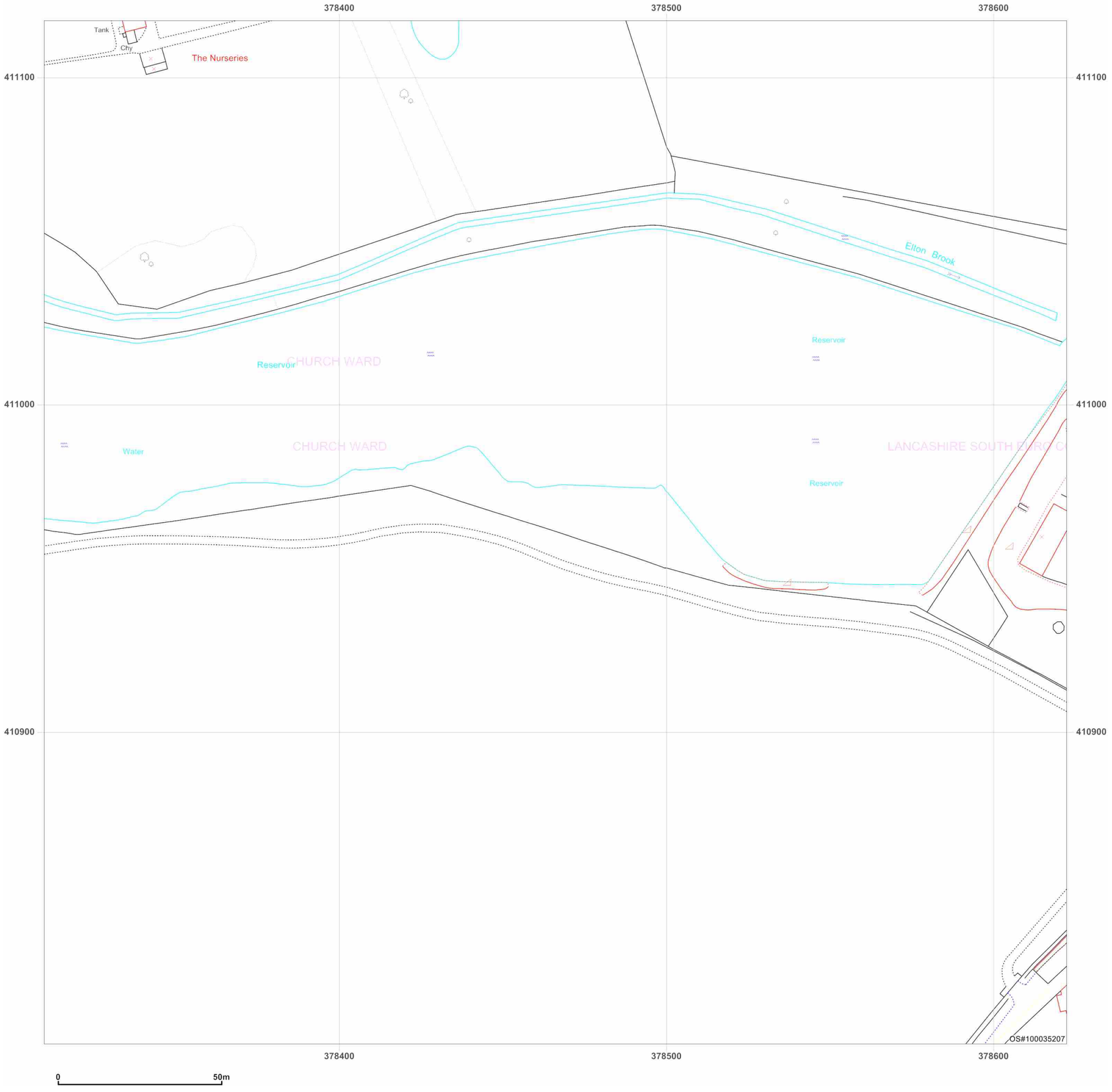
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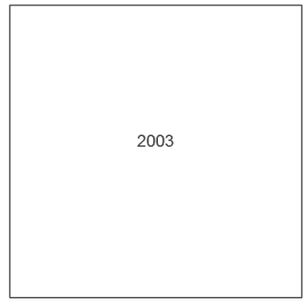
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_1
Grid Ref: 378466, 410961

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1959**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1959
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

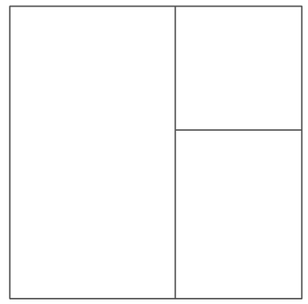
Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
Copyright 1967
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1975-1978**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959 Revised 1974 Edition N/A Copyright 1975 Levelled 1957	Surveyed 1959 Revised 1974 Edition N/A Copyright 1975 Levelled 1962

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

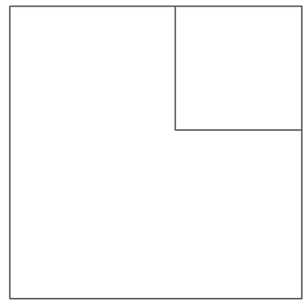
Map date: **1985**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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Revised 1988
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1988
Levelled 1962

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

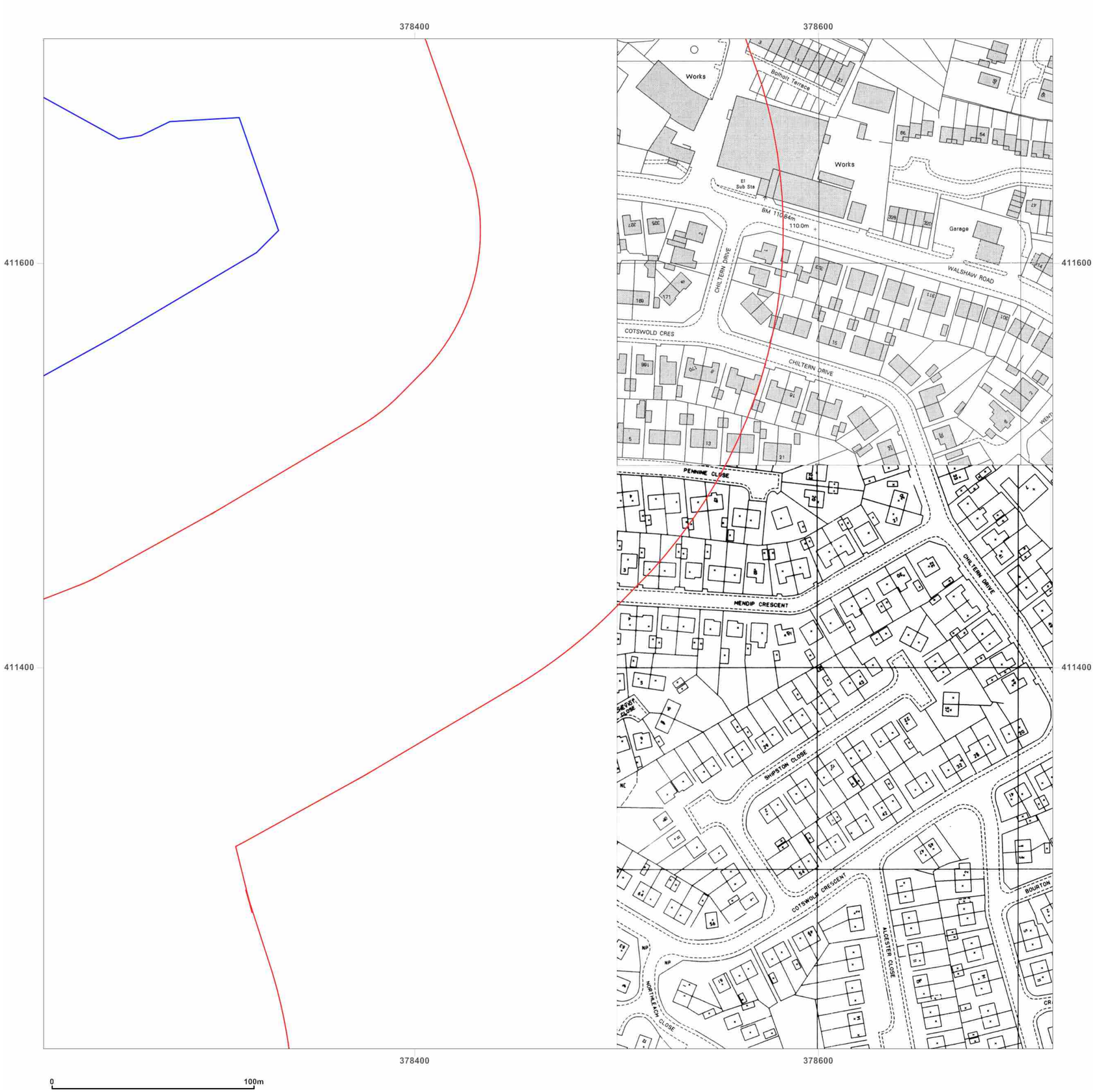
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1959
Revised 1989
Edition N/A
Copyright 1990
Levelled N/A

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

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

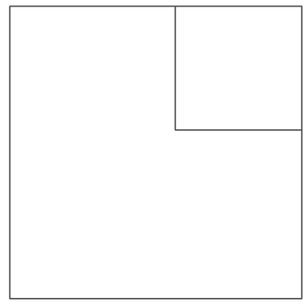
Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

Map Name: National Grid

Map date: **1993-1995**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

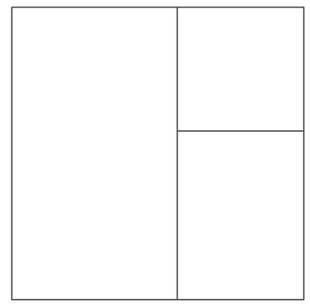
Map Name: National Grid

Map date: **1992-1995**

Scale: 1:1,250

Printed at: 1:2,000

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

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

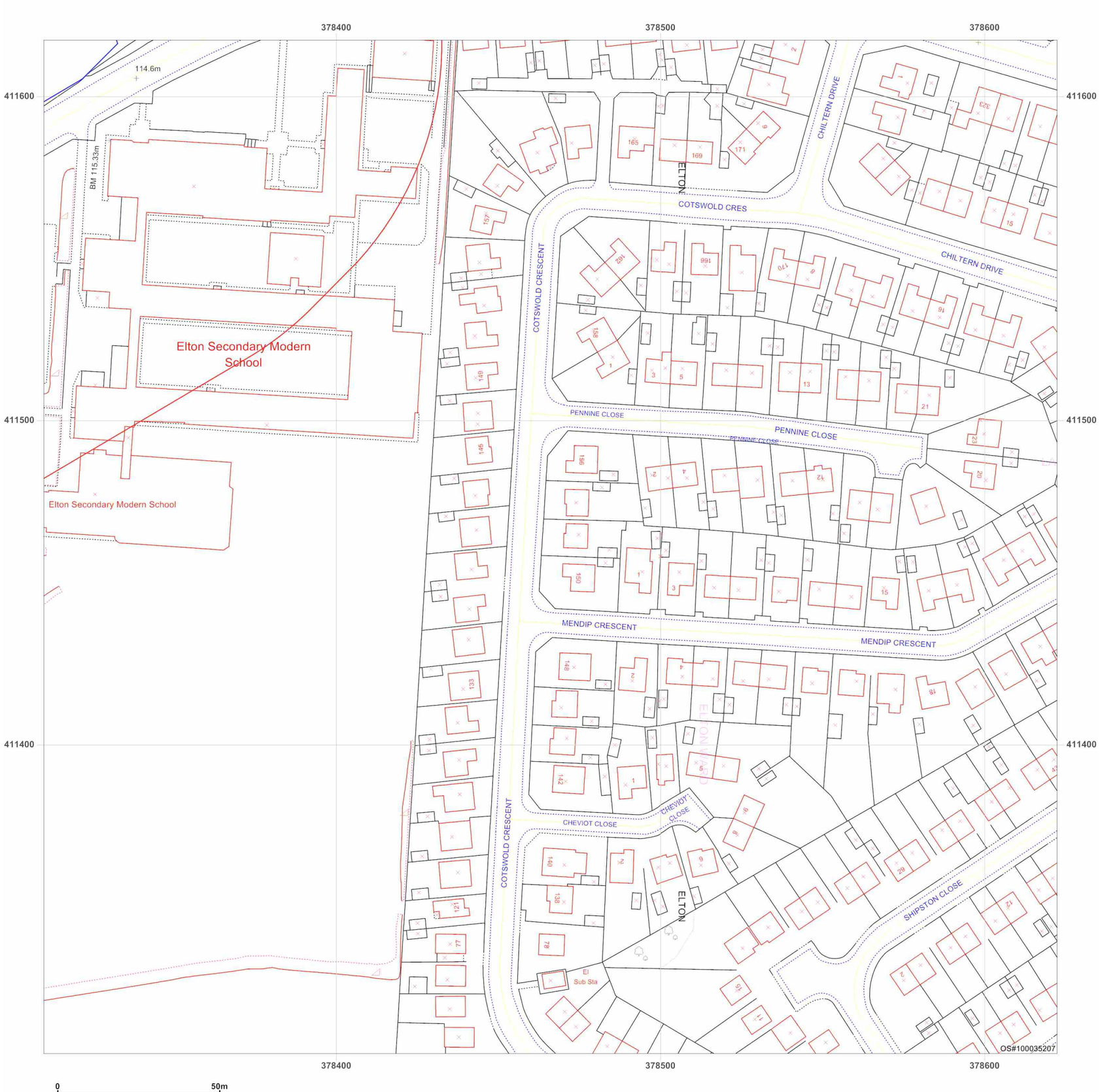
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_2
Grid Ref: 378466, 411461

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

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2003

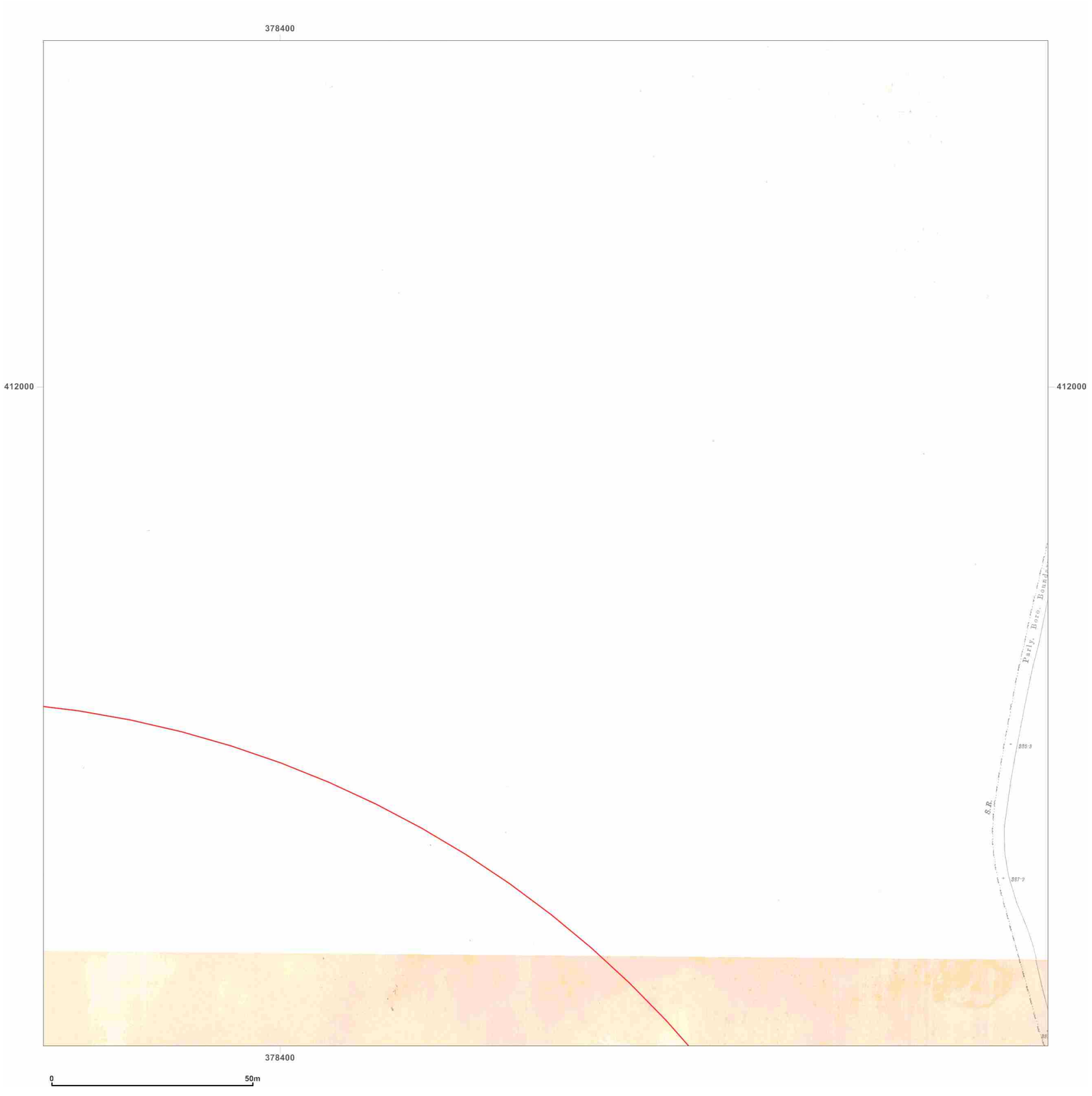
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: County Series Town Plan

Map date: **1891**

Scale: 1:500

Printed at: 1:1,000

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Surveyed 1891
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised N/A
Edition N/A
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Levelled N/A

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

Map date: **1959-1960**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised N/A
Edition N/A
Copyright 1960
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1959
Levelled 1957

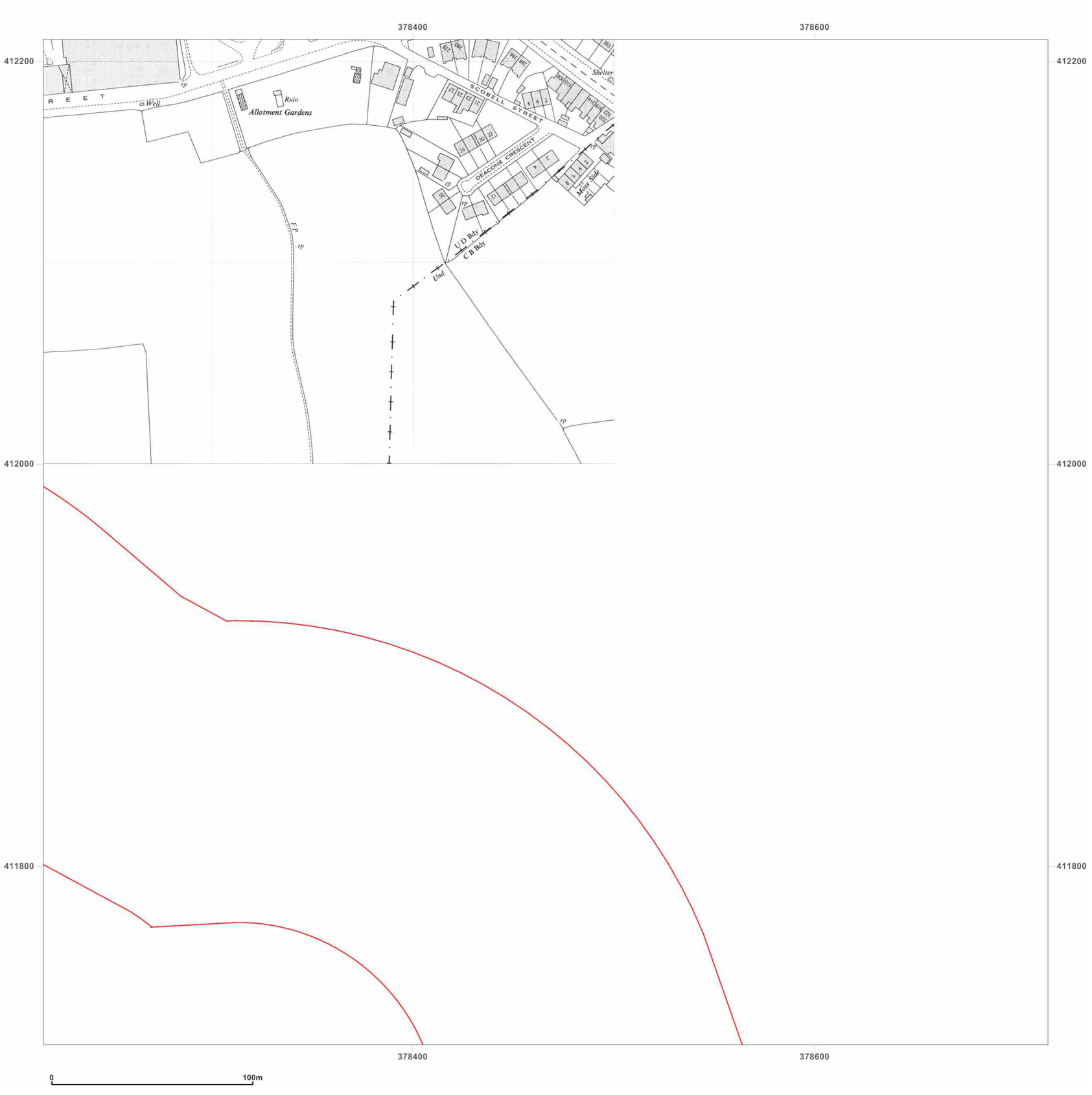
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

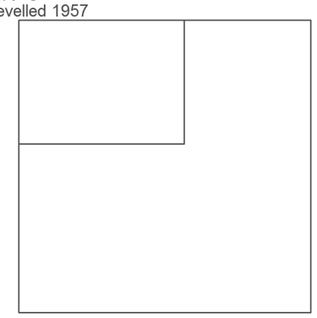
Map date: **1960**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957



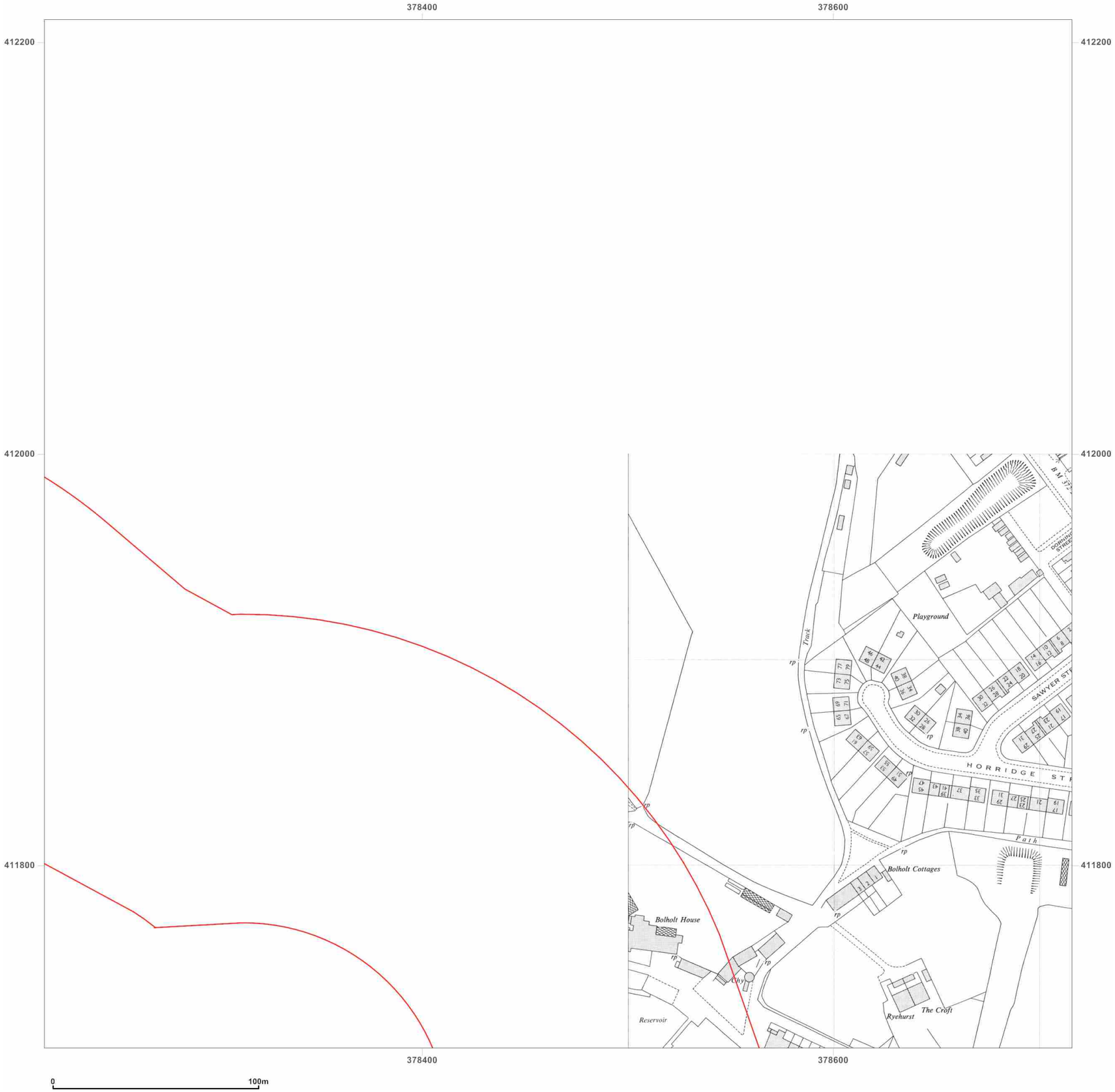
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

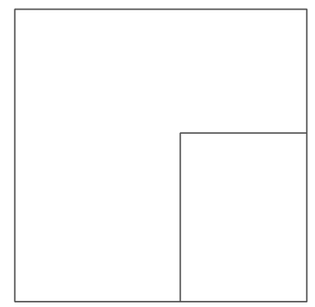
Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised 1966
Edition N/A
Copyright 1967
Levelled 1962

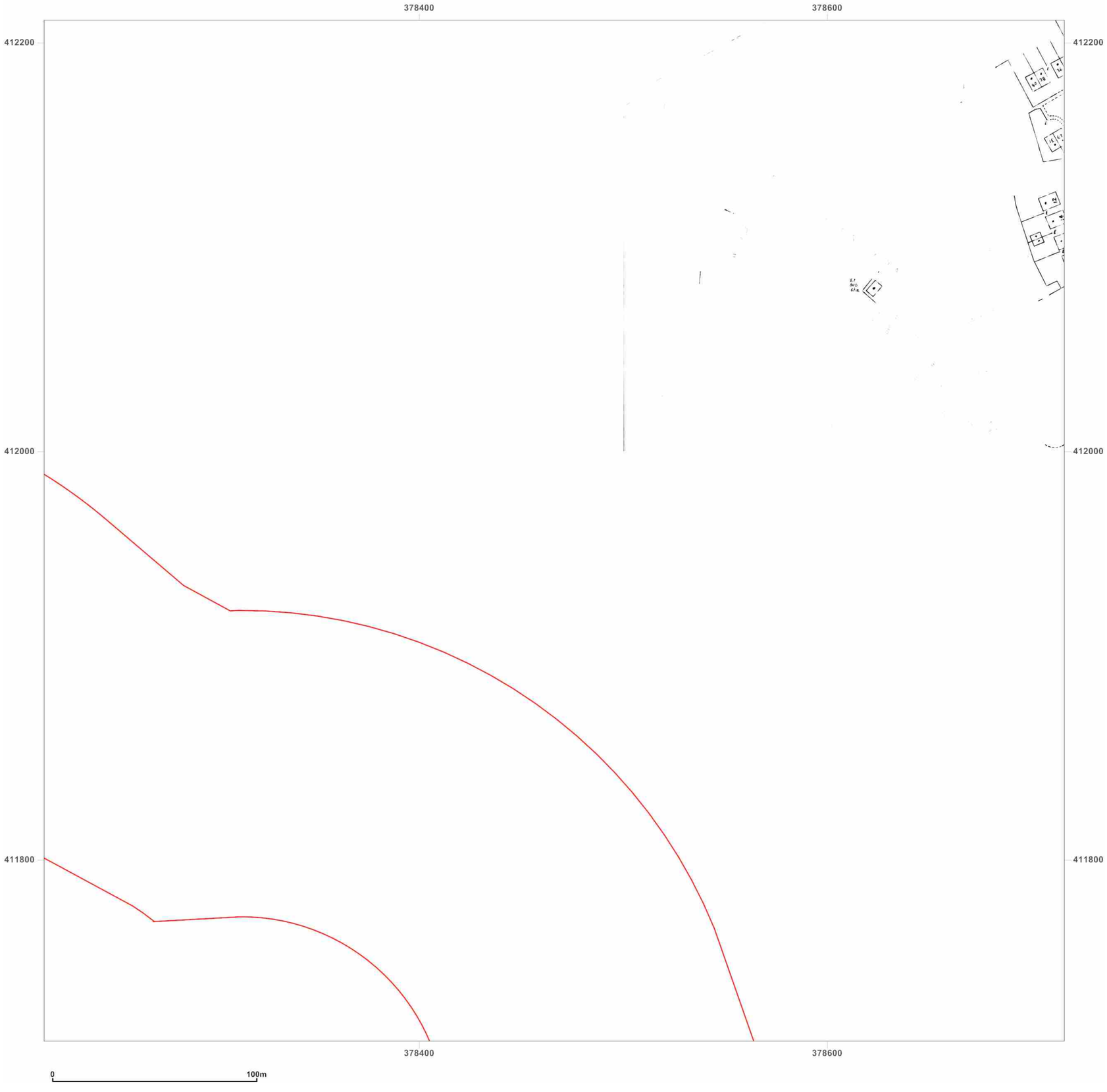
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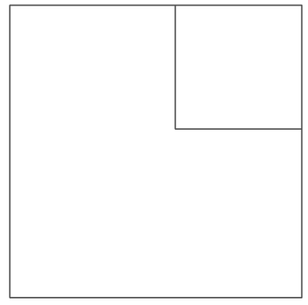
Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid
Map date: **1976**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A



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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

Map date: **1974-1978**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1959
Revised 1974
Edition N/A
Copyright 1975
Levelled 1962

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

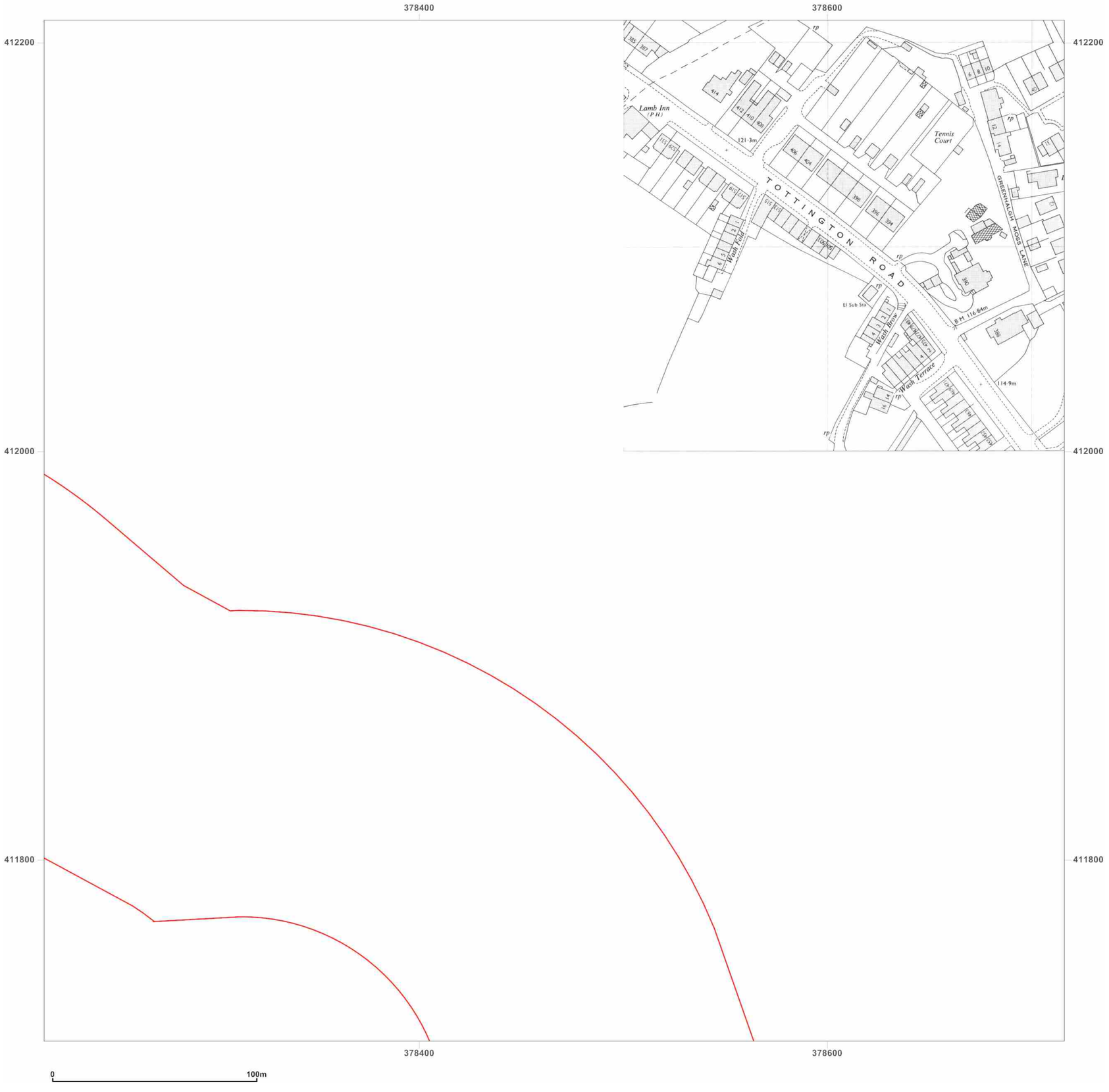
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

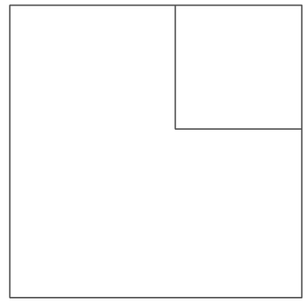
Map date: **1978**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1959
Revised 1977
Edition N/A
Copyright 1978
Levelled 1957



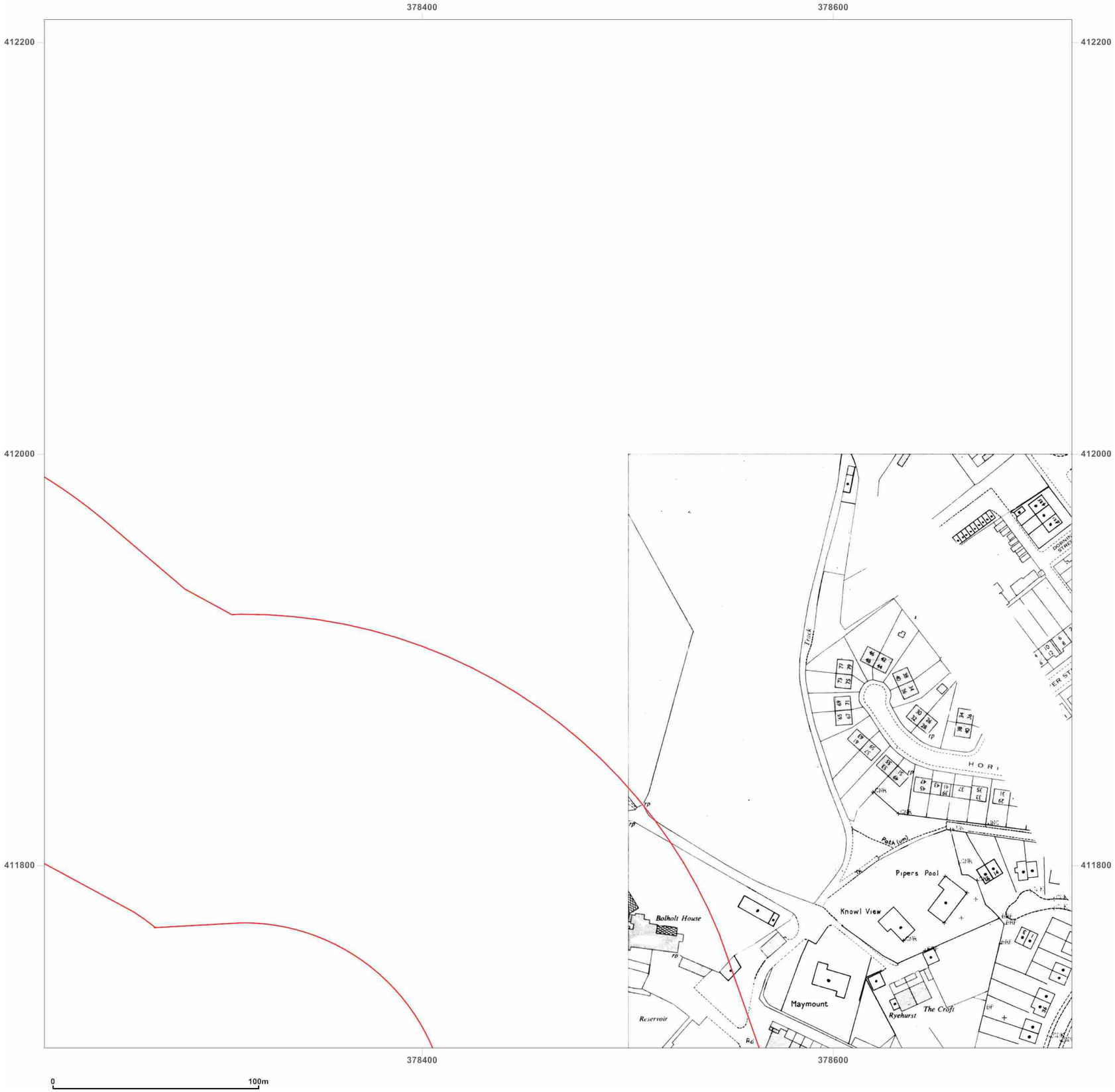
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

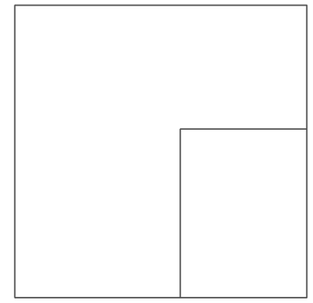
Map Name: National Grid

Map date: **1988**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

Map date: **1985-1988**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1962
Revised 1988
Edition N/A
Copyright 1988
Levelled 1962

Surveyed 1957
Revised 1985
Edition N/A
Copyright 1985
Levelled 1957

Surveyed 1962
Revised 1985
Edition N/A
Copyright 1985
Levelled 1962

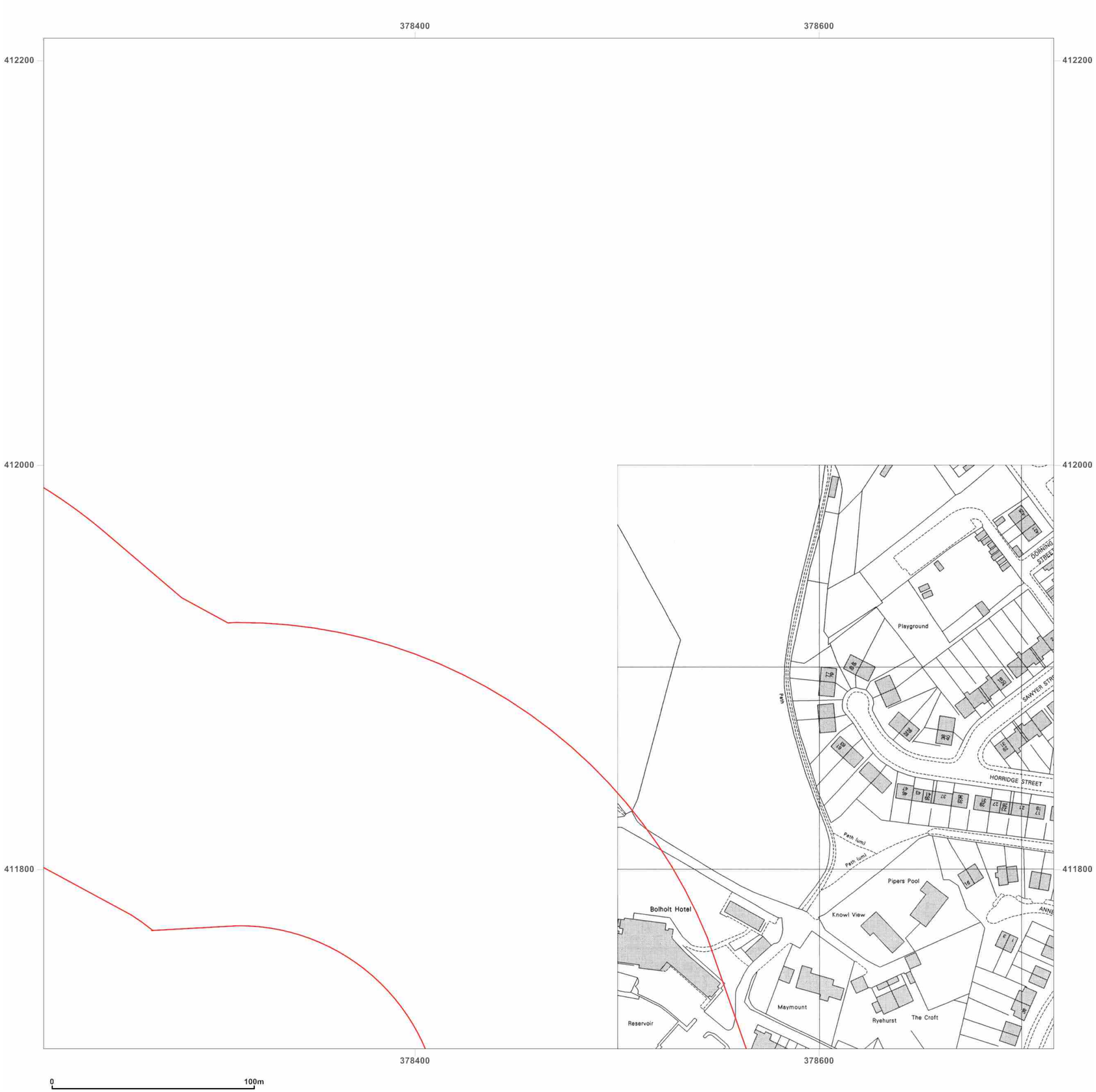
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

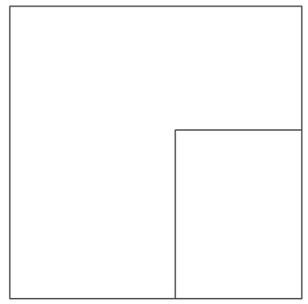
Map Name: National Grid

Map date: **1990**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1989
Edition N/A
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid
Map date: **1987-1991**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1988 Levelled N/A	Surveyed 1957 Revised 1988 Edition N/A Copyright 1988 Levelled 1957
Surveyed 1991 Revised 1991 Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1987 Levelled 1962

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1992 Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed 1992 Revised 1992 Edition N/A Copyright N/A Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed 1962 Revised 1988 Edition N/A Copyright 1988 Levelled 1962

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

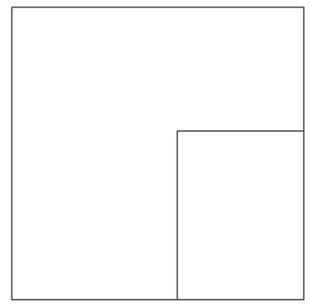
Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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

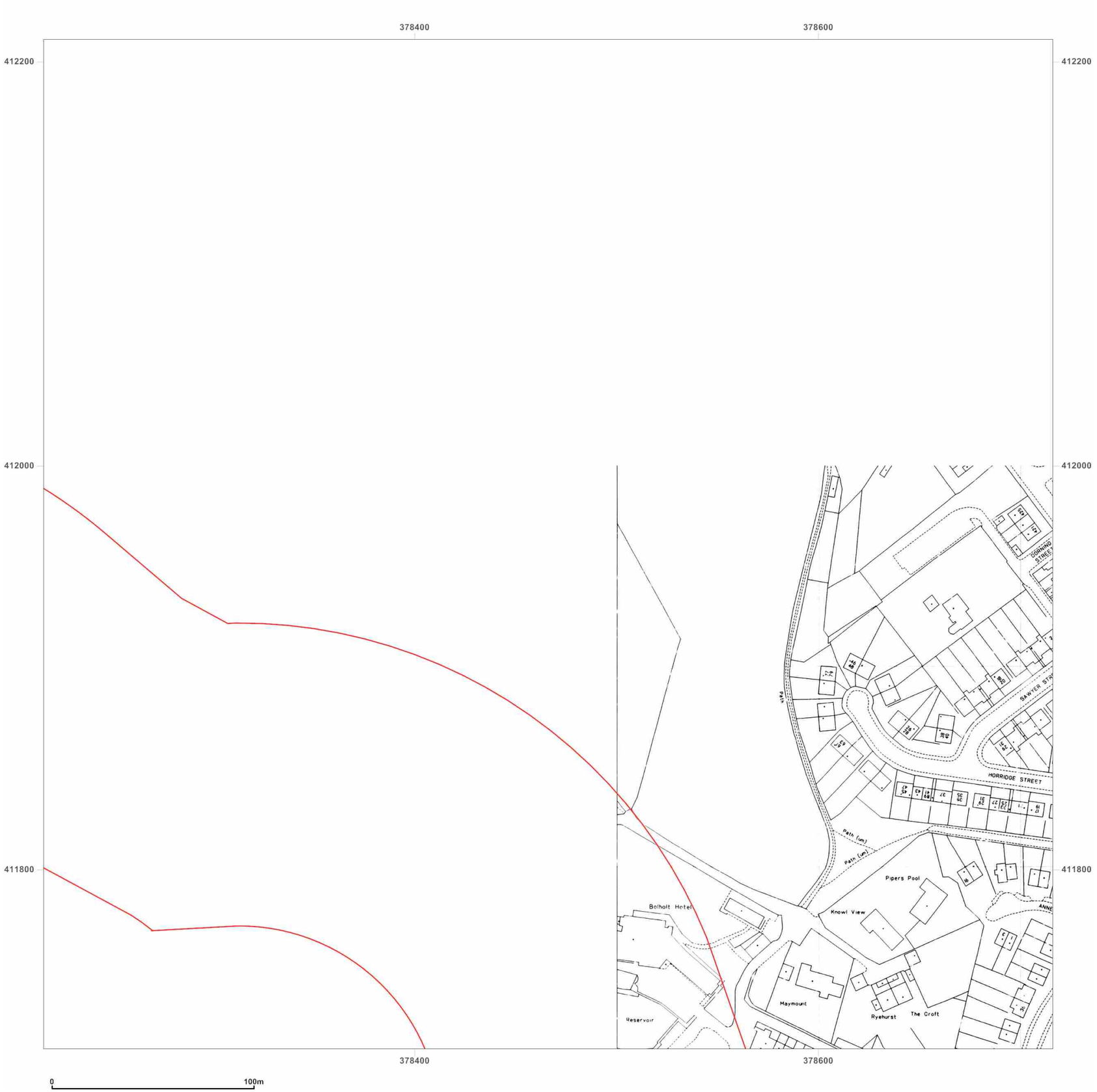
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

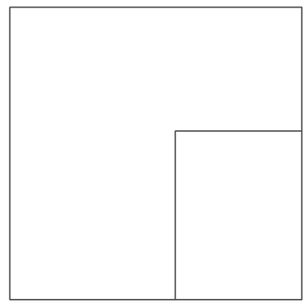
Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Revised N/A
Edition N/A
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

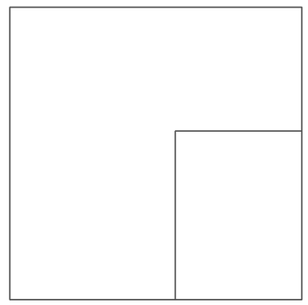
Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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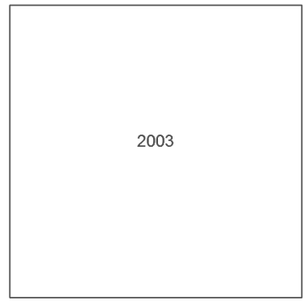
Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_1250scale_3_3
Grid Ref: 378466, 411961

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

N
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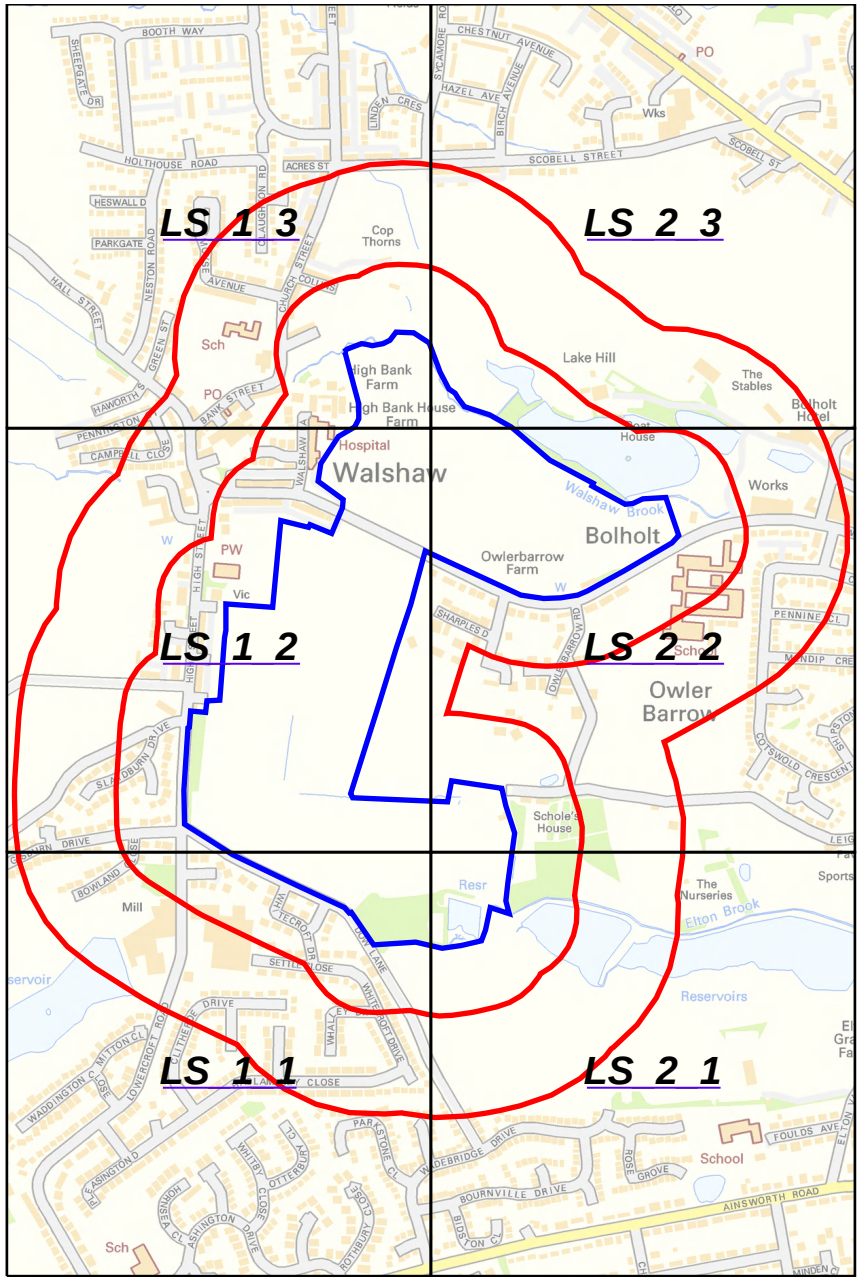
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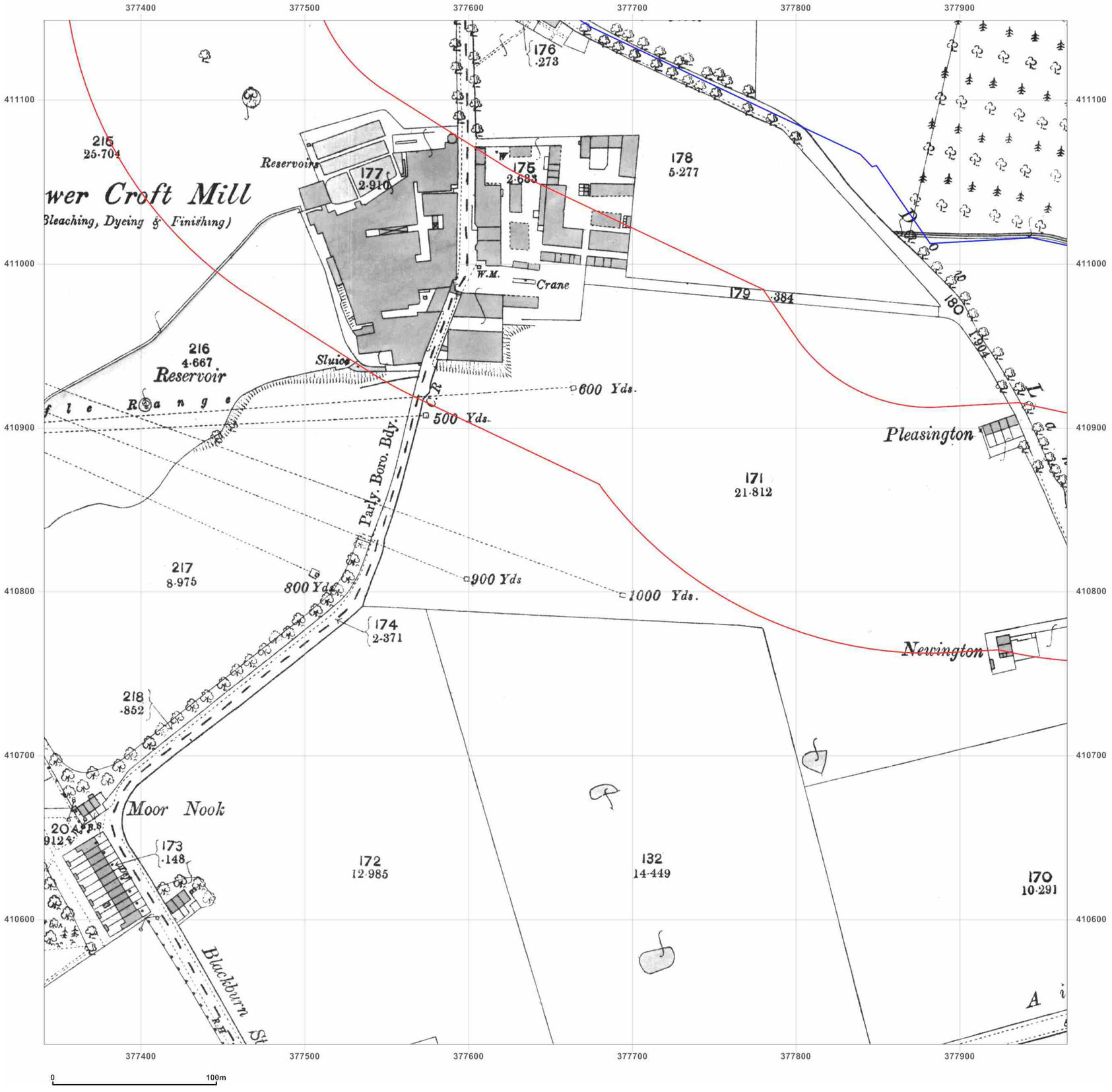
Production date: 21 November 2019

Map legend available at:
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1:2500 Scale Grid Index



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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_1
Grid Ref: 377653, 410836

Map Name: County Series
Map date: **1890**
Scale: 1:2,500
Printed at: 1:2,500

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

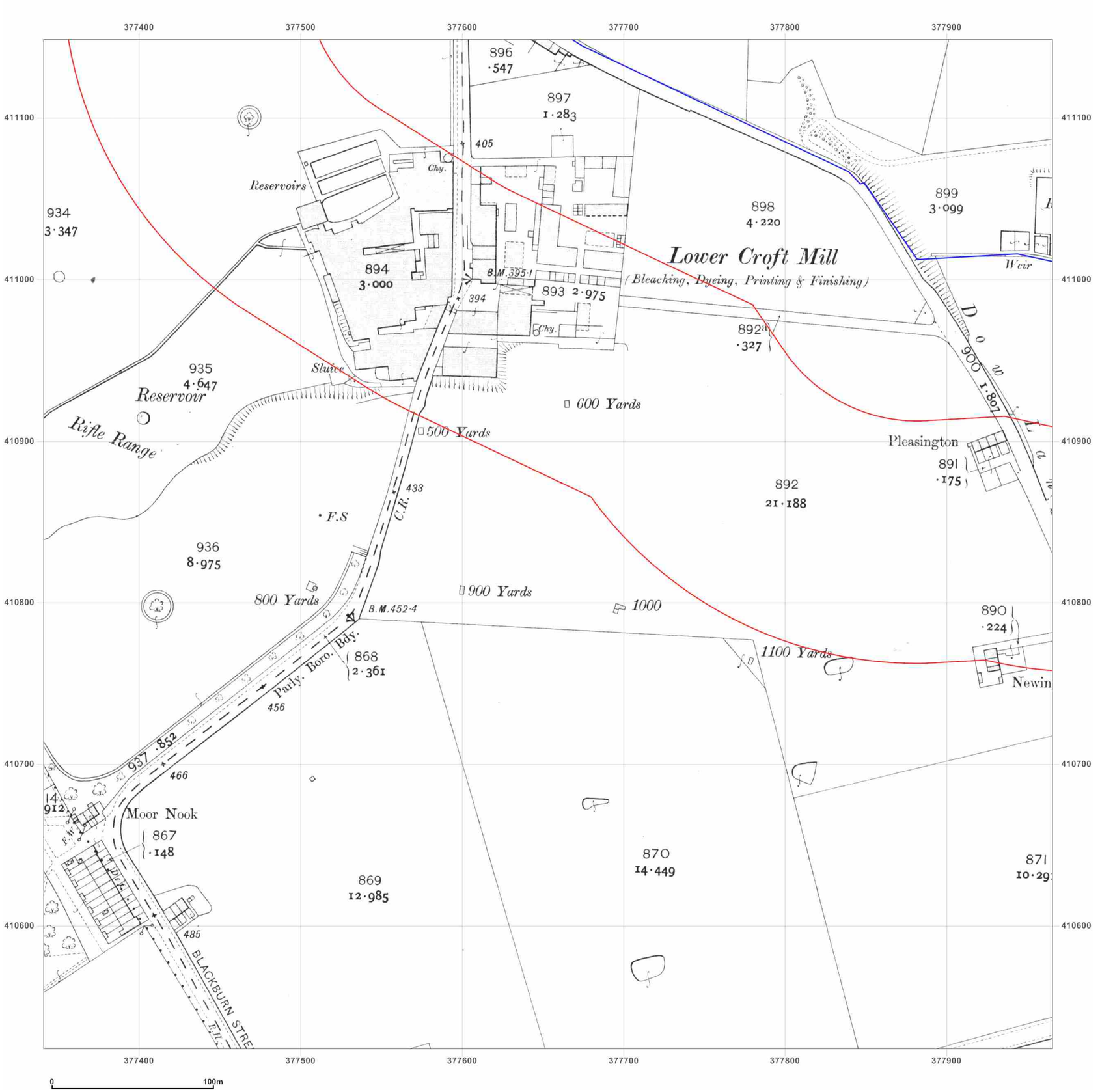
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_1
Grid Ref: 377653, 410836

Map Name: County Series

Map date: **1910**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

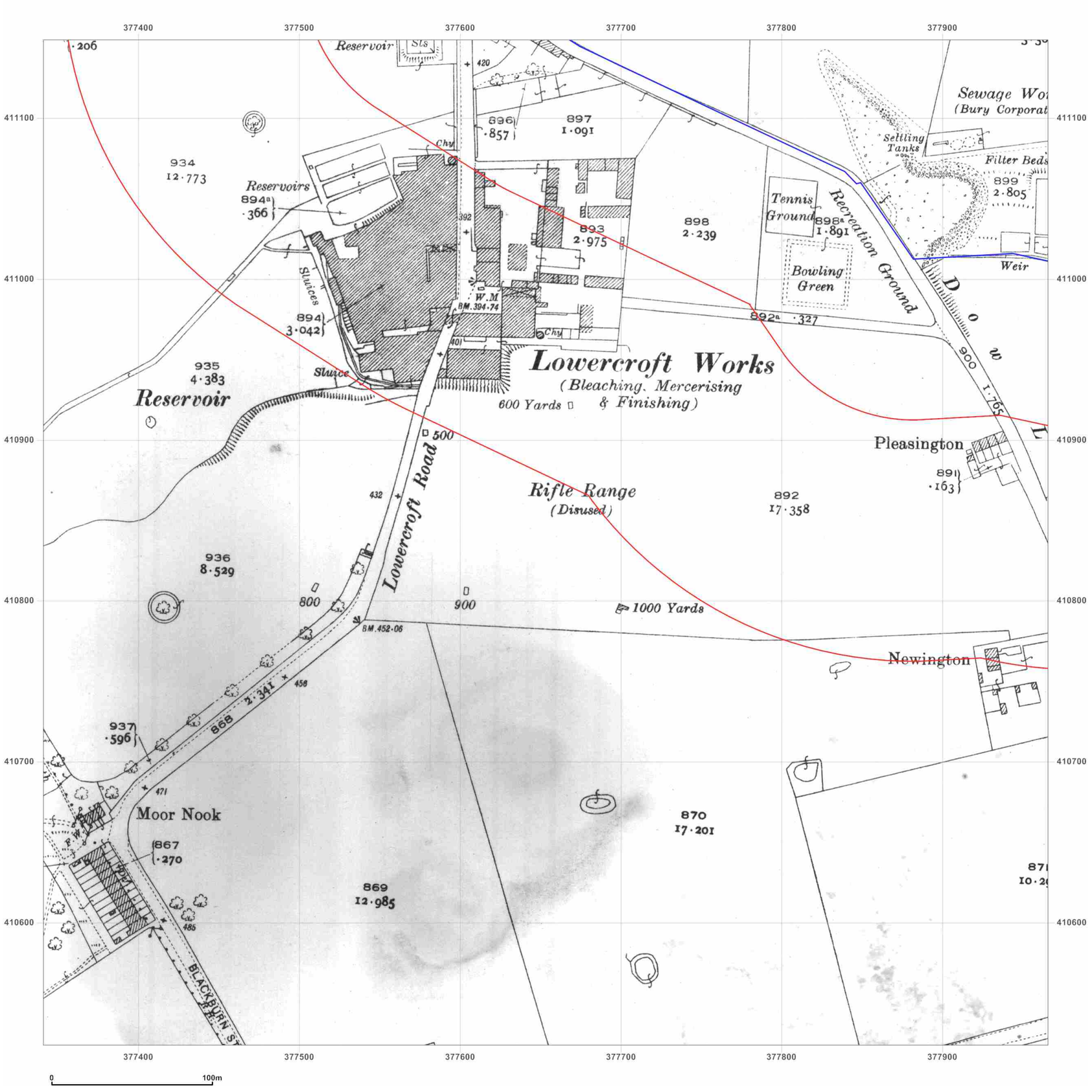
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_1
Grid Ref: 377653, 410836

Map Name: County Series

Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

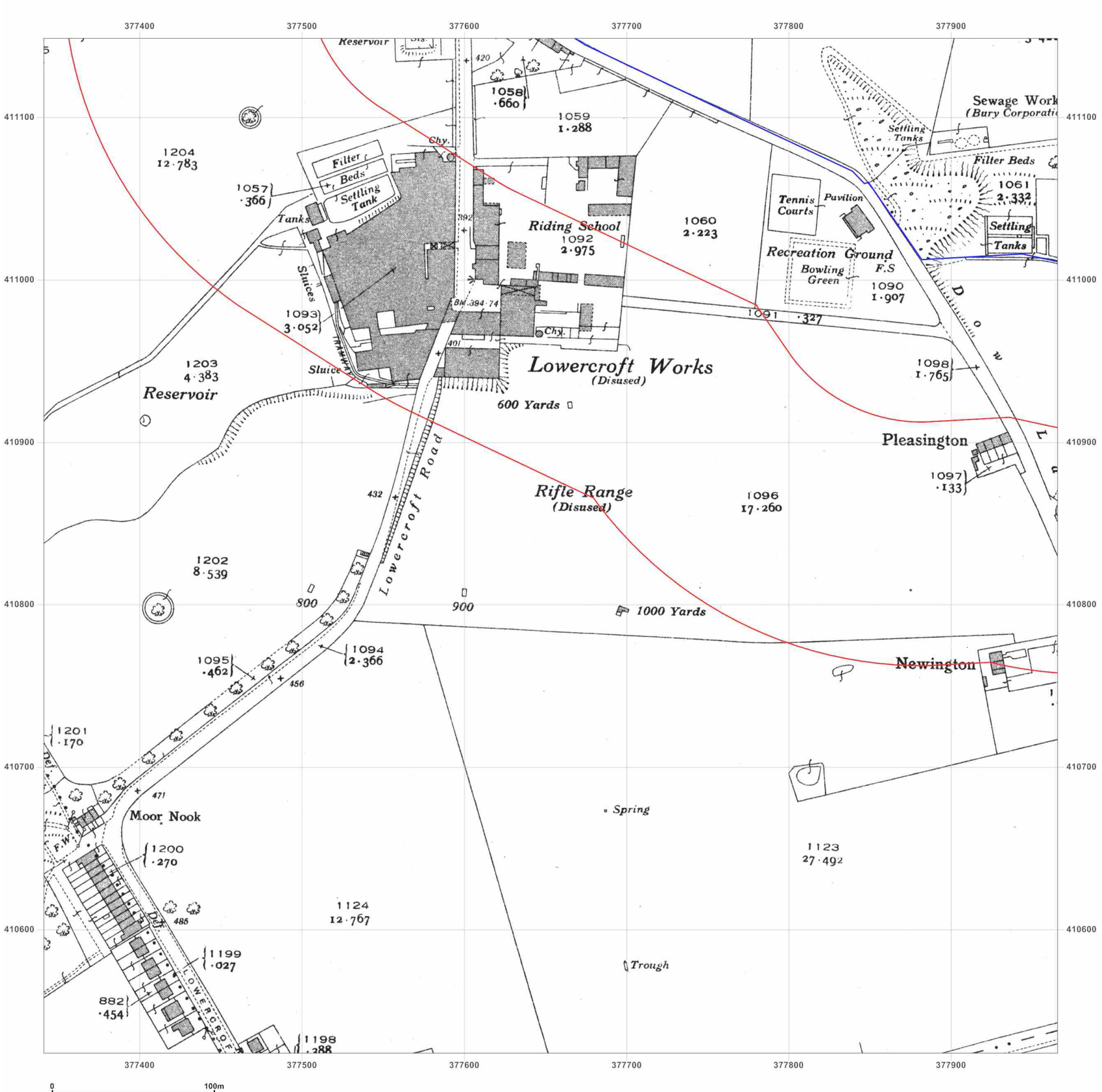
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_1
Grid Ref: 377653, 410836

Map Name: County Series

Map date: **1939**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_1
Grid Ref: 377653, 410836

Map Name: National Grid

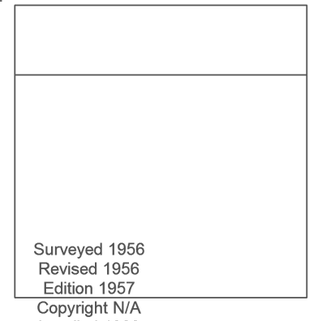
Map date: **1956-1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1967
Levelled 1962



Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

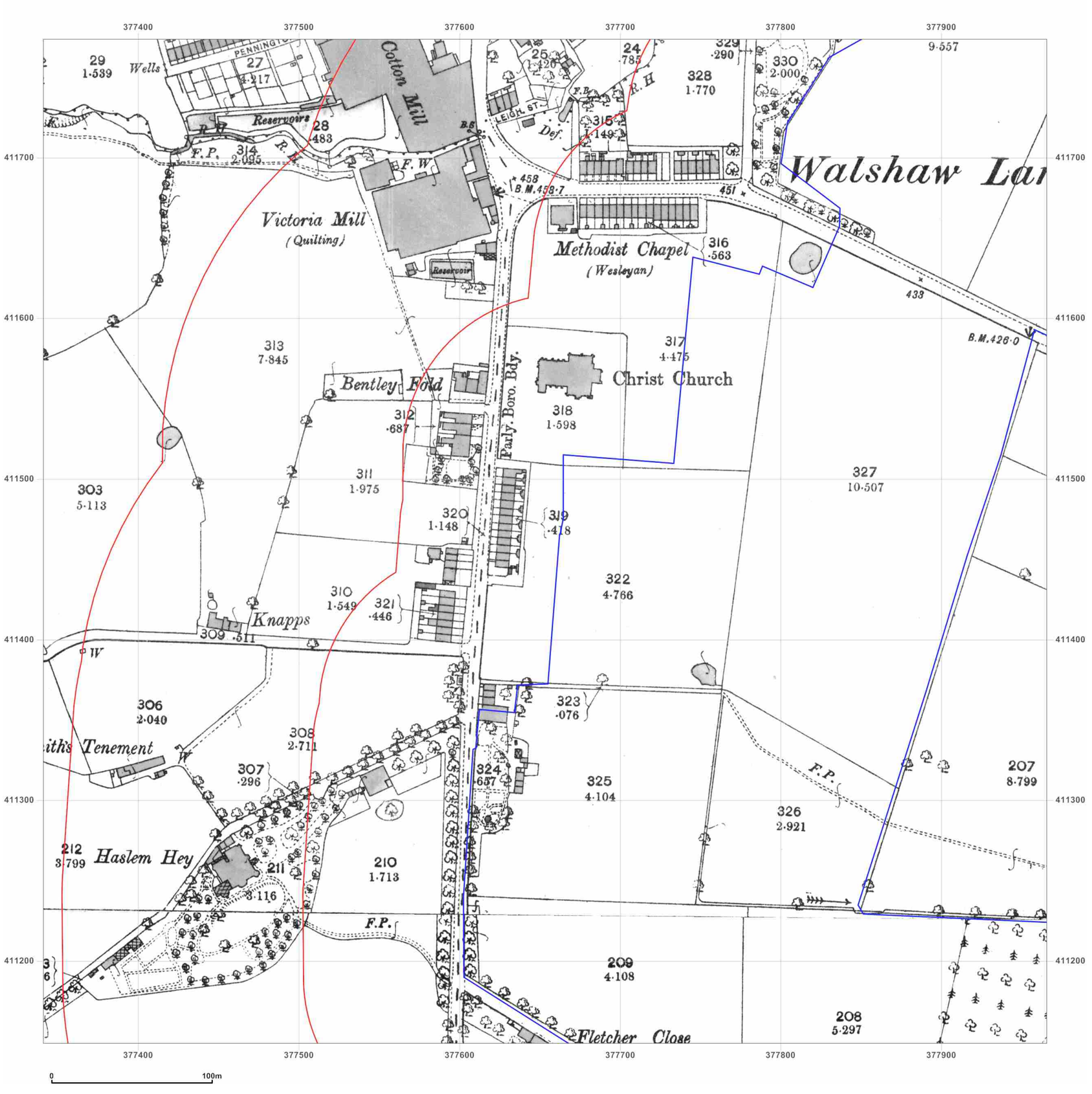
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_2
Grid Ref: 377653, 411461

Map Name: County Series

Map date: **1890**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

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

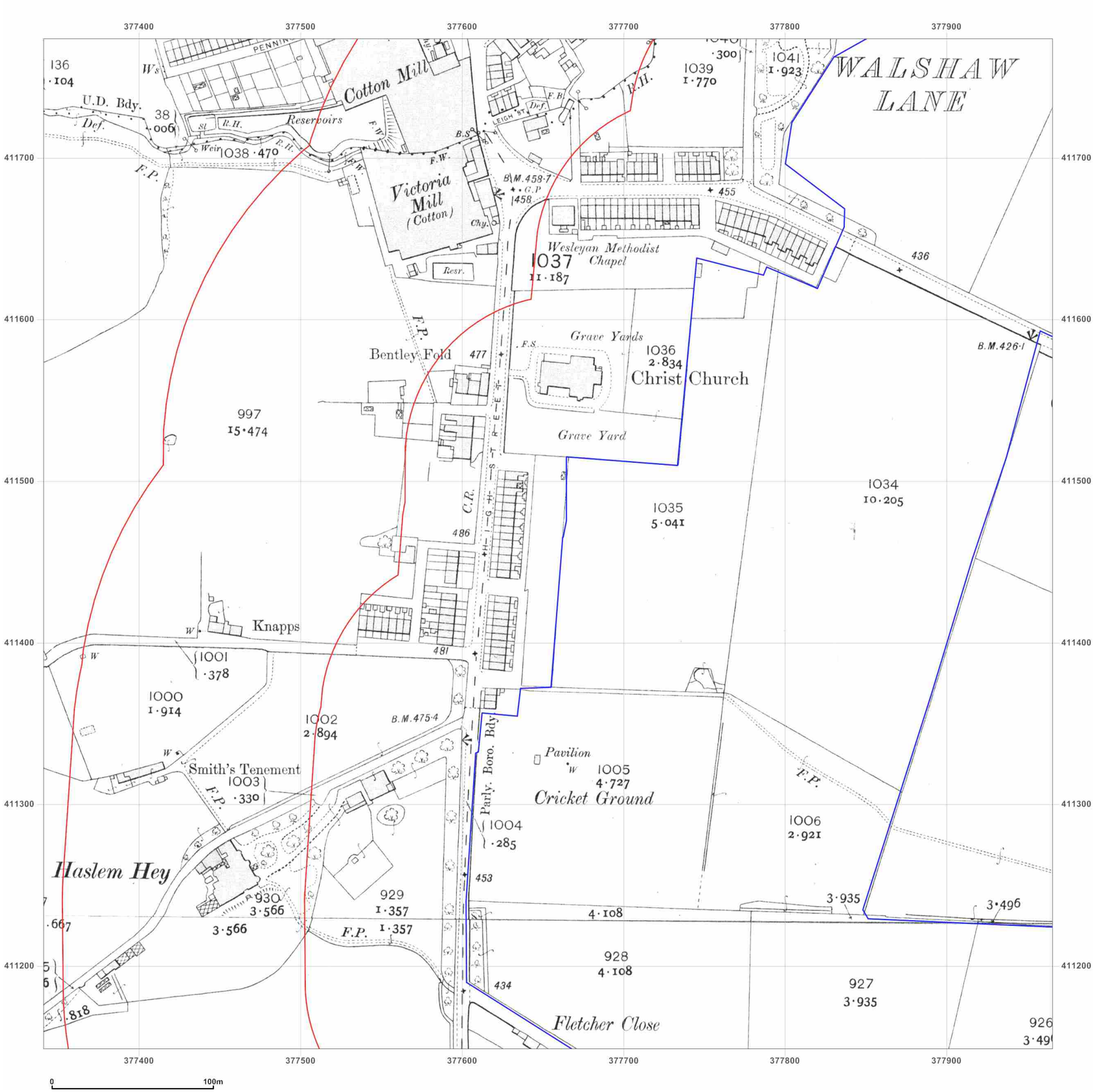
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_2
Grid Ref: 377653, 411461

Map Name: County Series

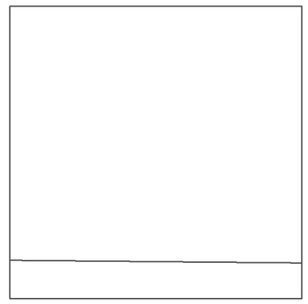
Map date: **1910**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

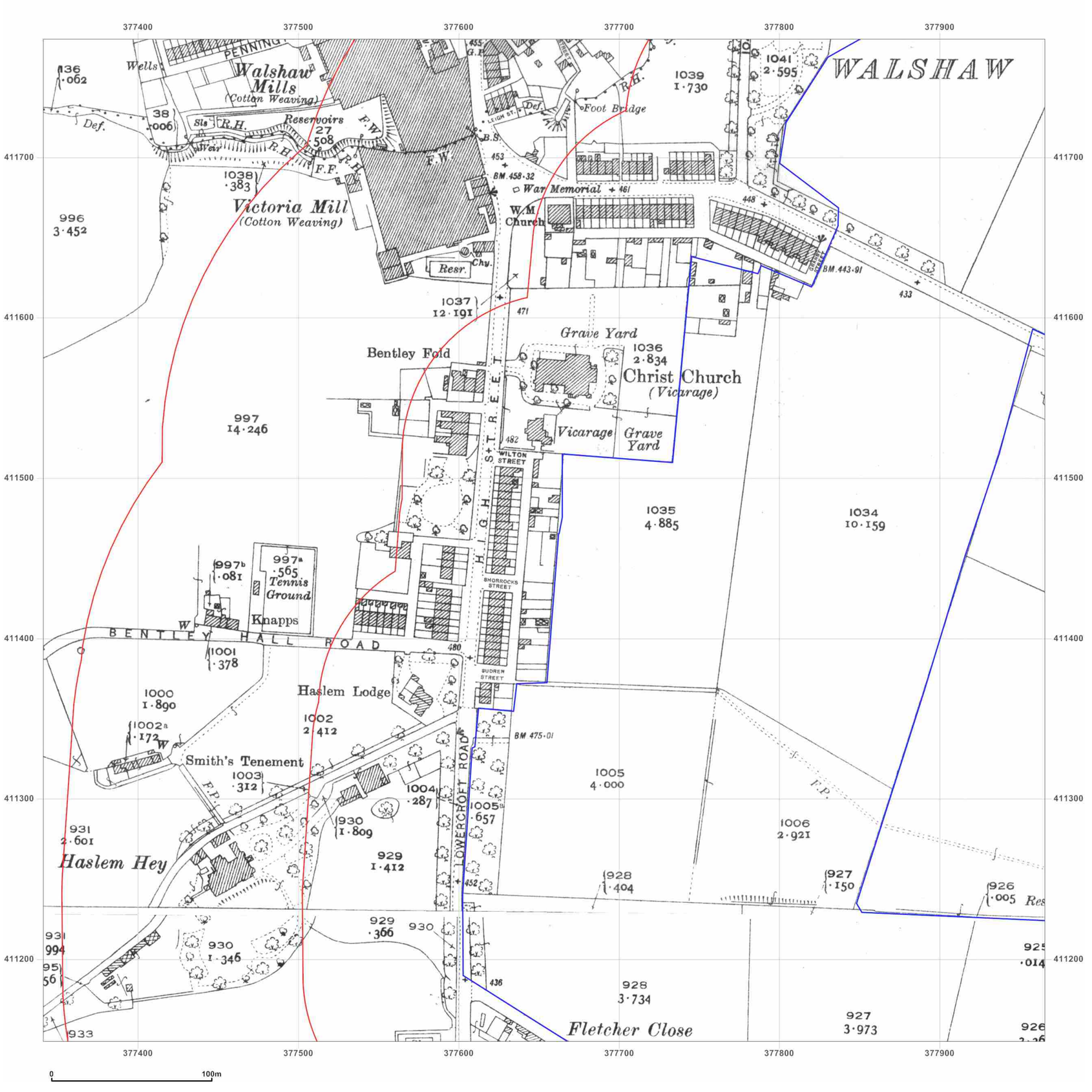
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_2
Grid Ref: 377653, 411461

Map Name: County Series

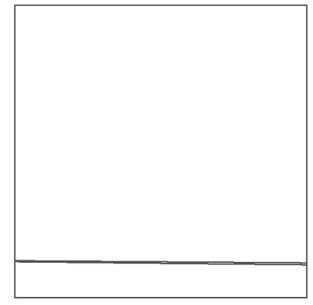
Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_2
Grid Ref: 377653, 411461

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1967
Levelled 1962

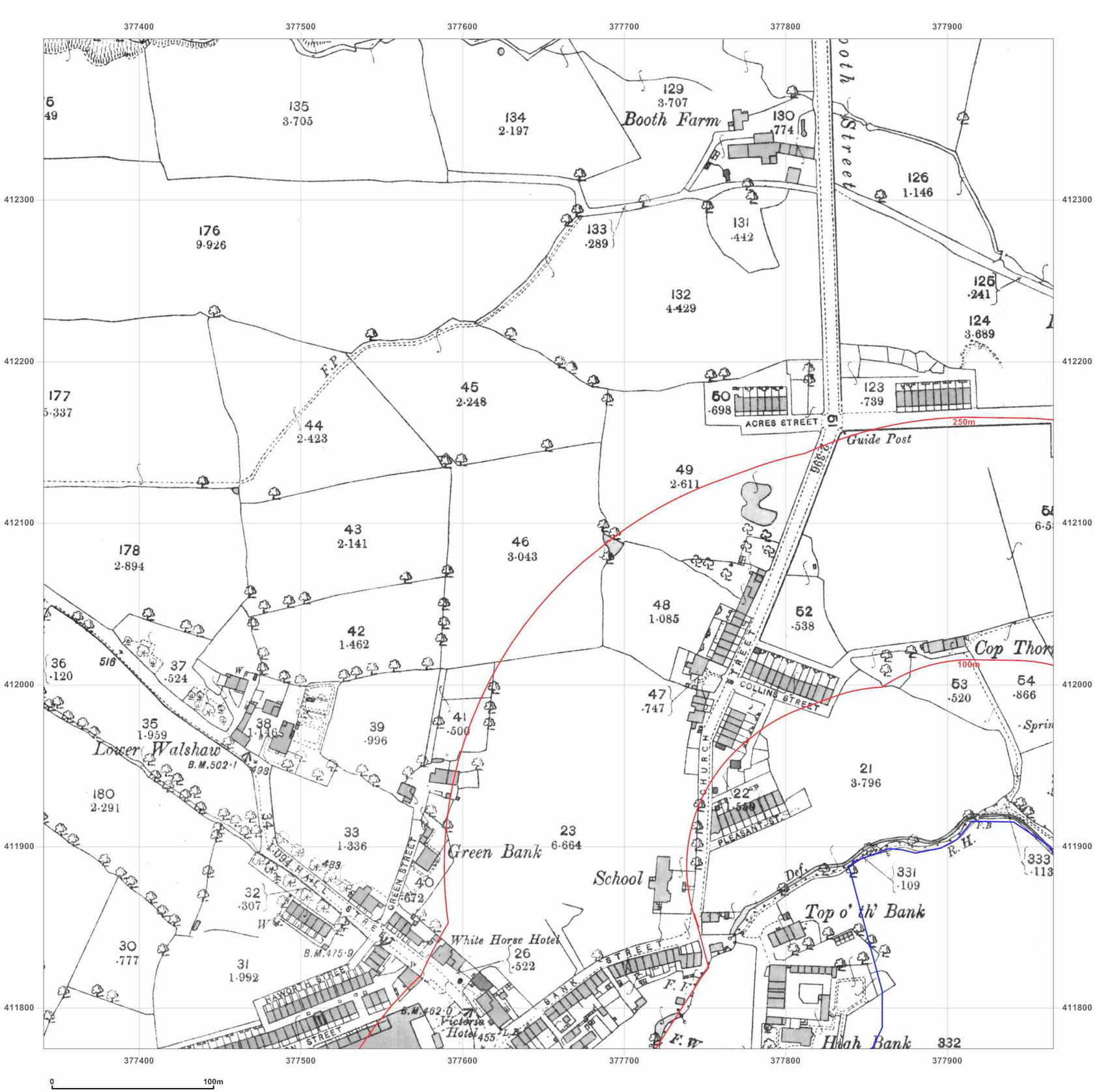
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_3
Grid Ref: 377653, 412087

Map Name: County Series

Map date: **1890**

Scale: 1:2,500

Printed at: 1:2,500

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

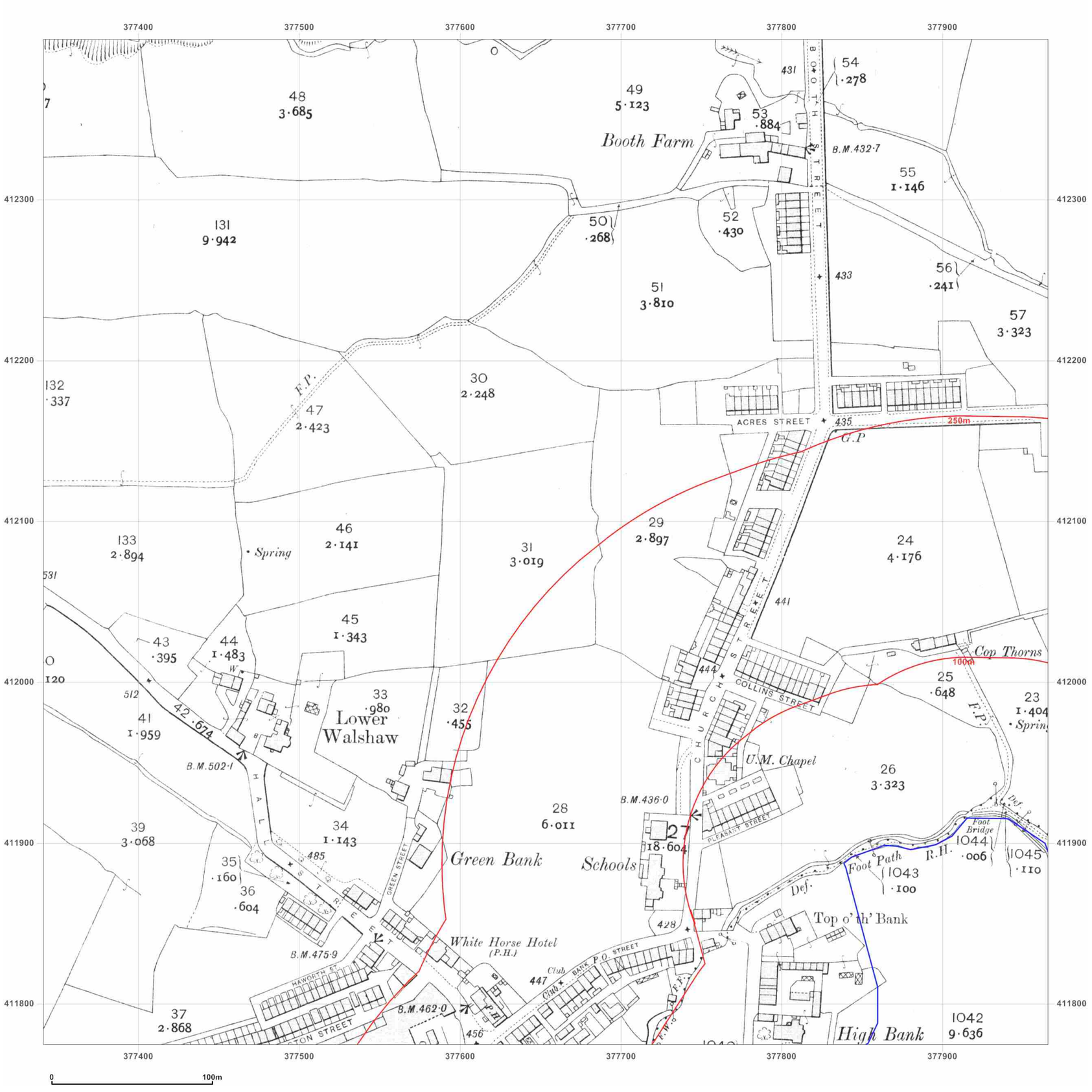
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_3
Grid Ref: 377653, 412087

Map Name: County Series
Map date: **1910**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

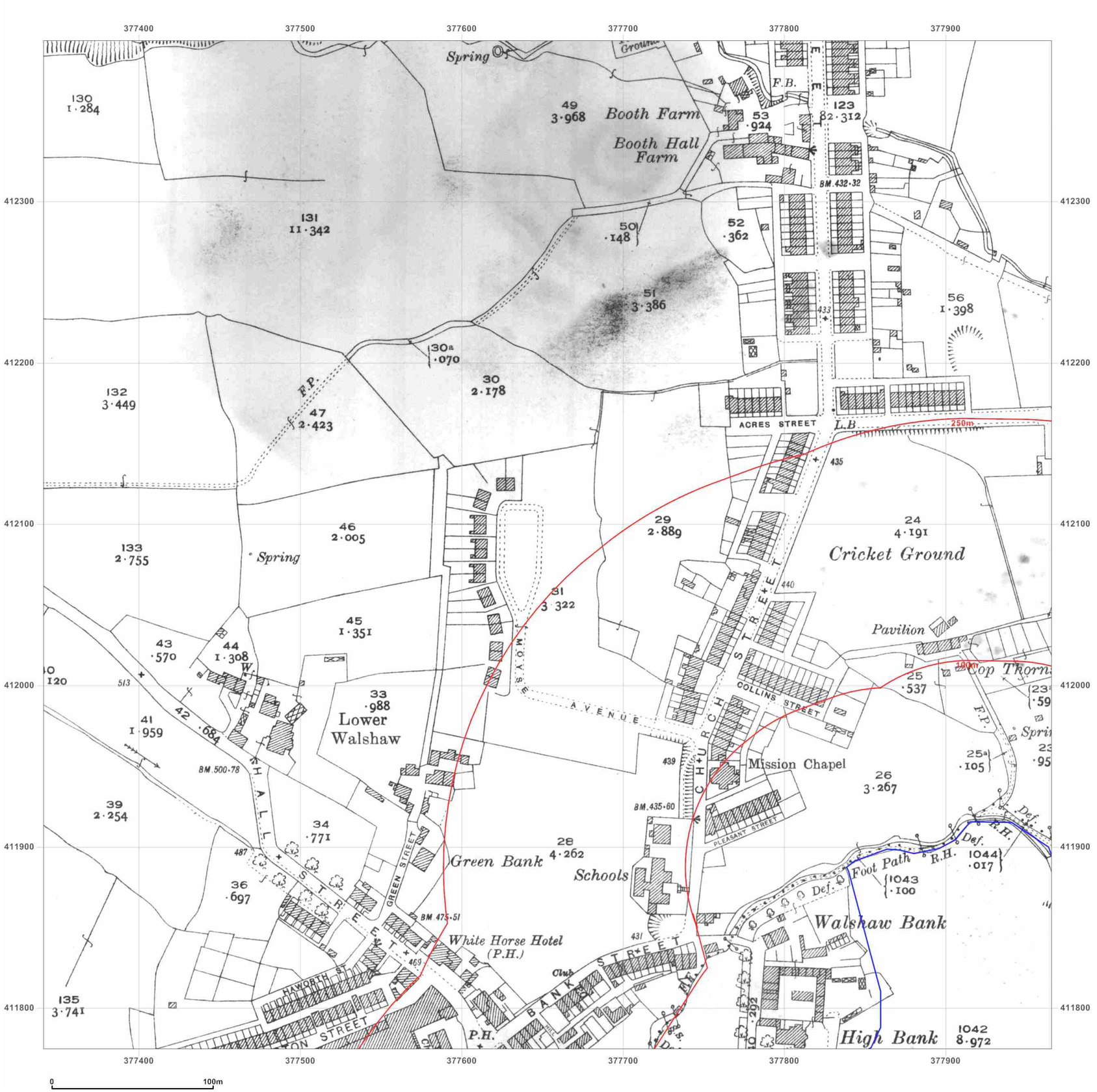
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_3
Grid Ref: 377653, 412087

Map Name: County Series

Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

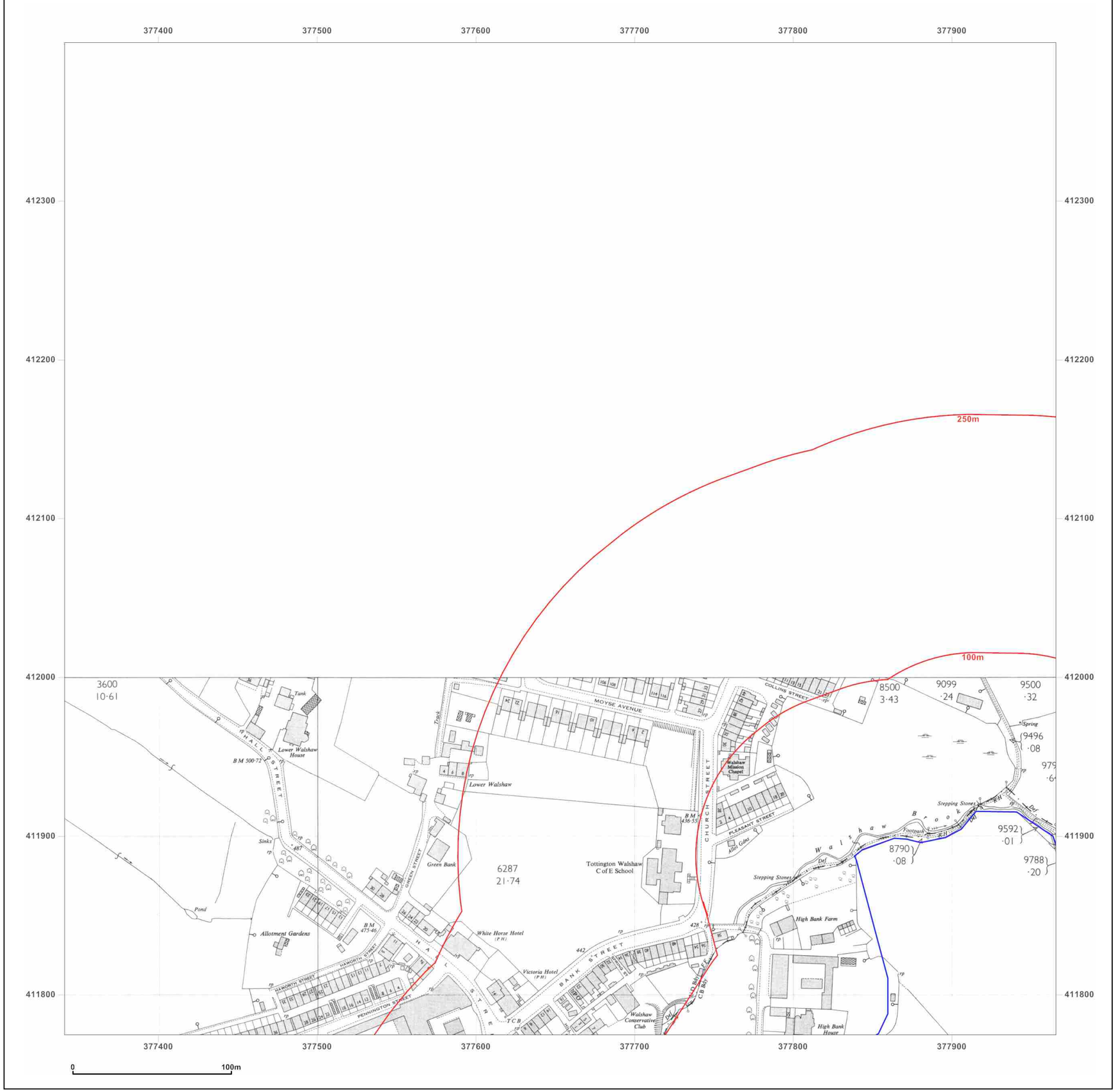
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_3
Grid Ref: 377653, 412087

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1967
Levelled 1962

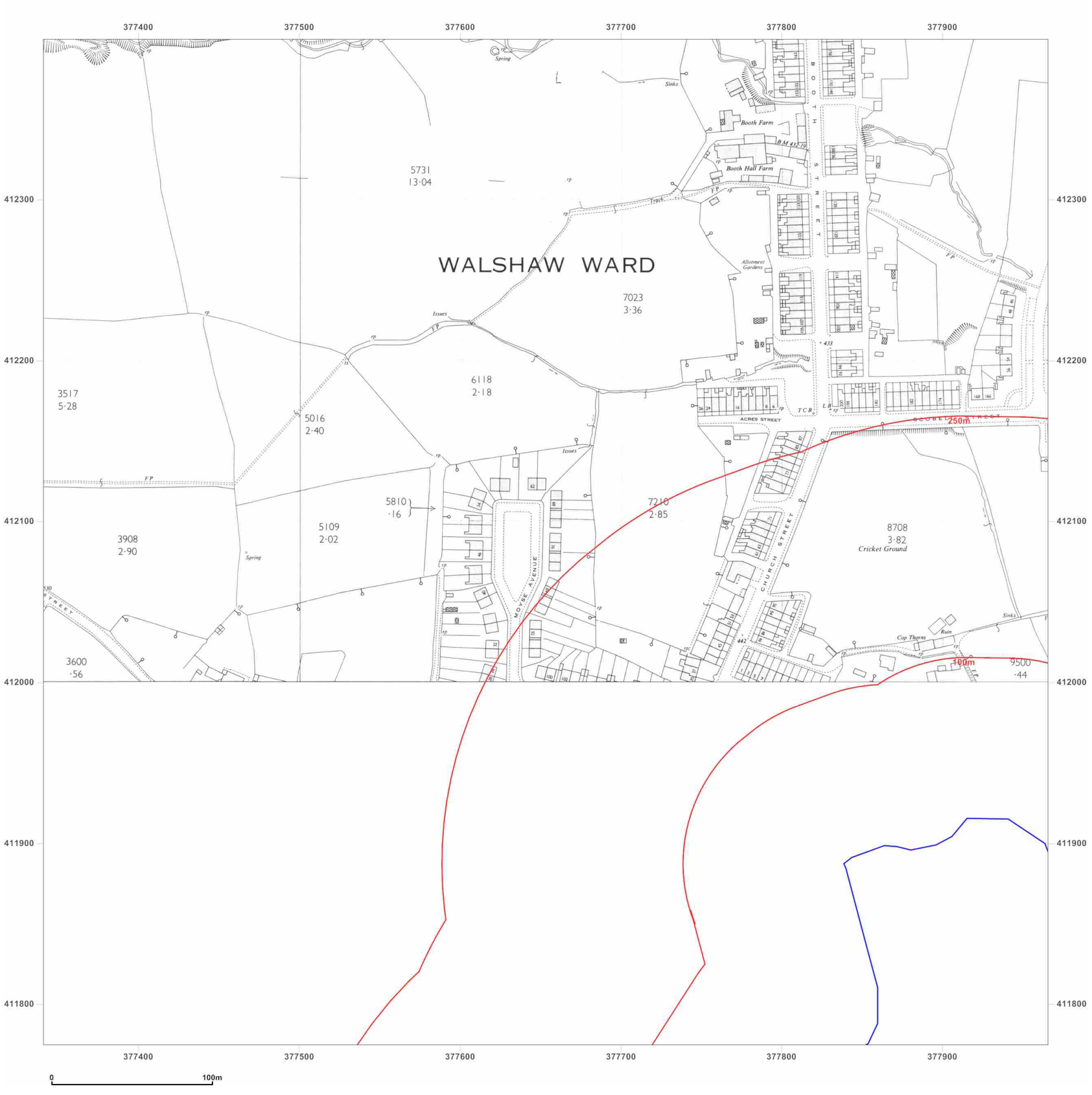
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Site Details:

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Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_1_3
Grid Ref: 377653, 412087

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1962

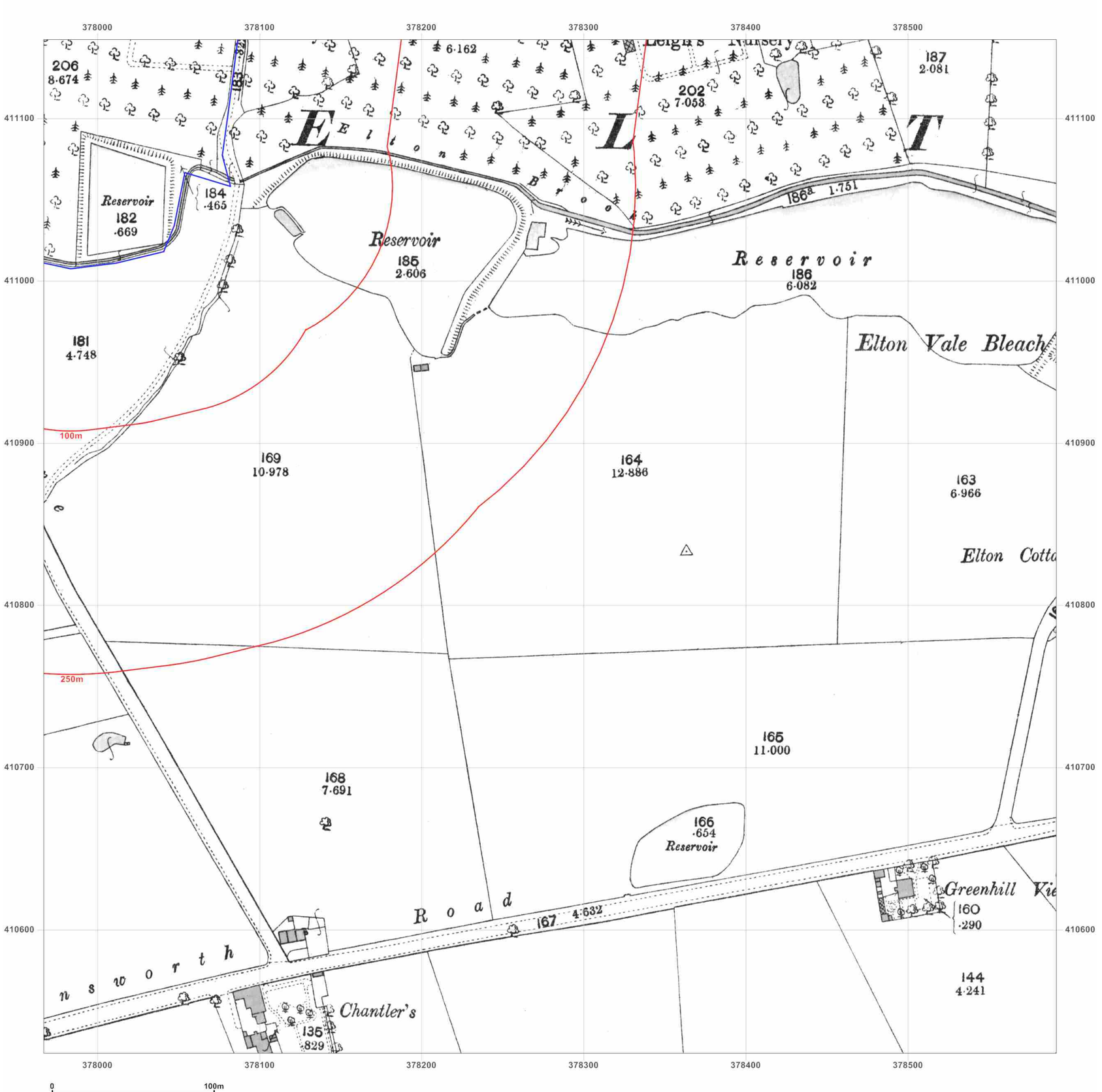
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

Map Name: County Series
Map date: **1890**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

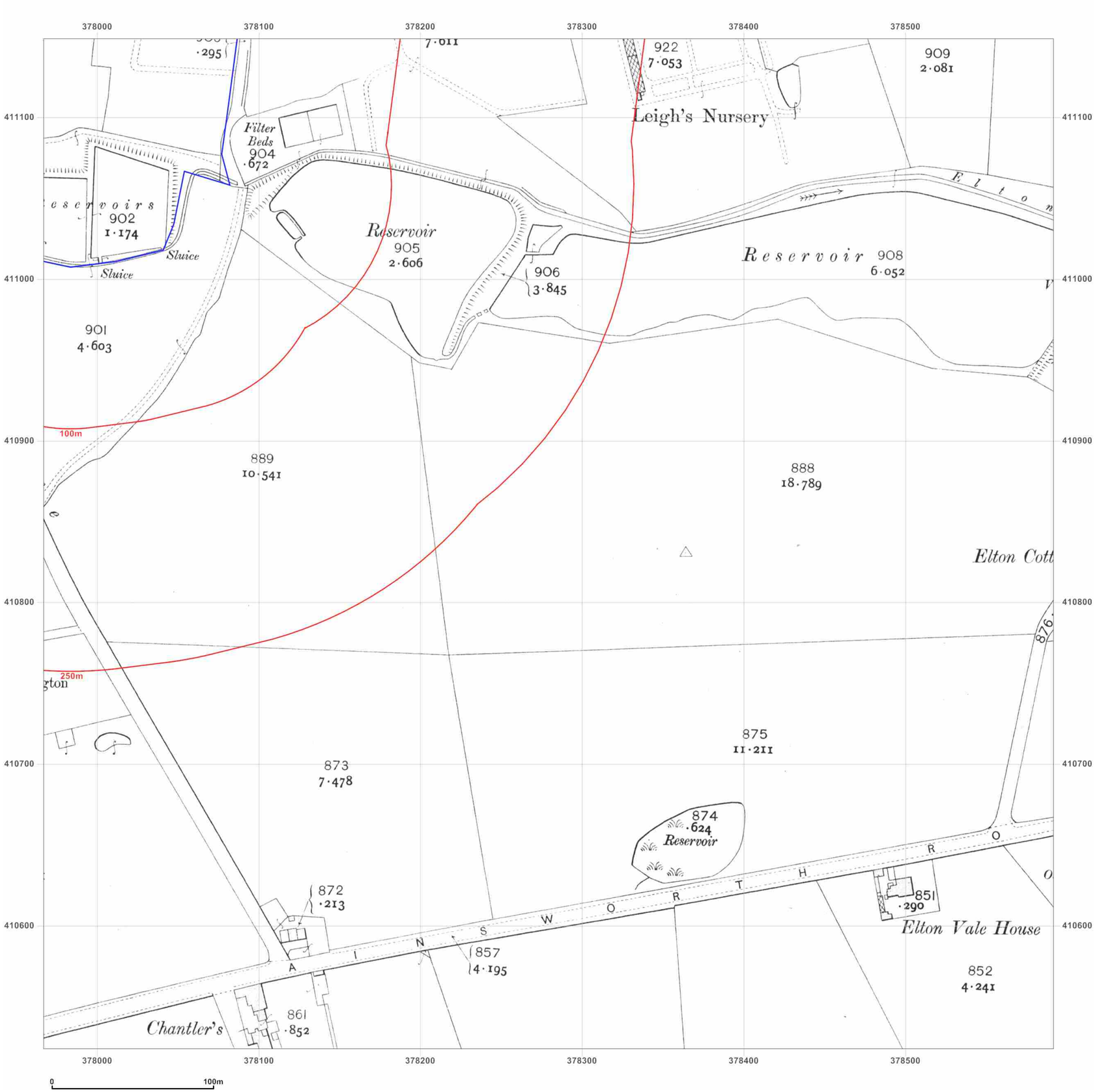
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

Map Name: County Series
Map date: **1910**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

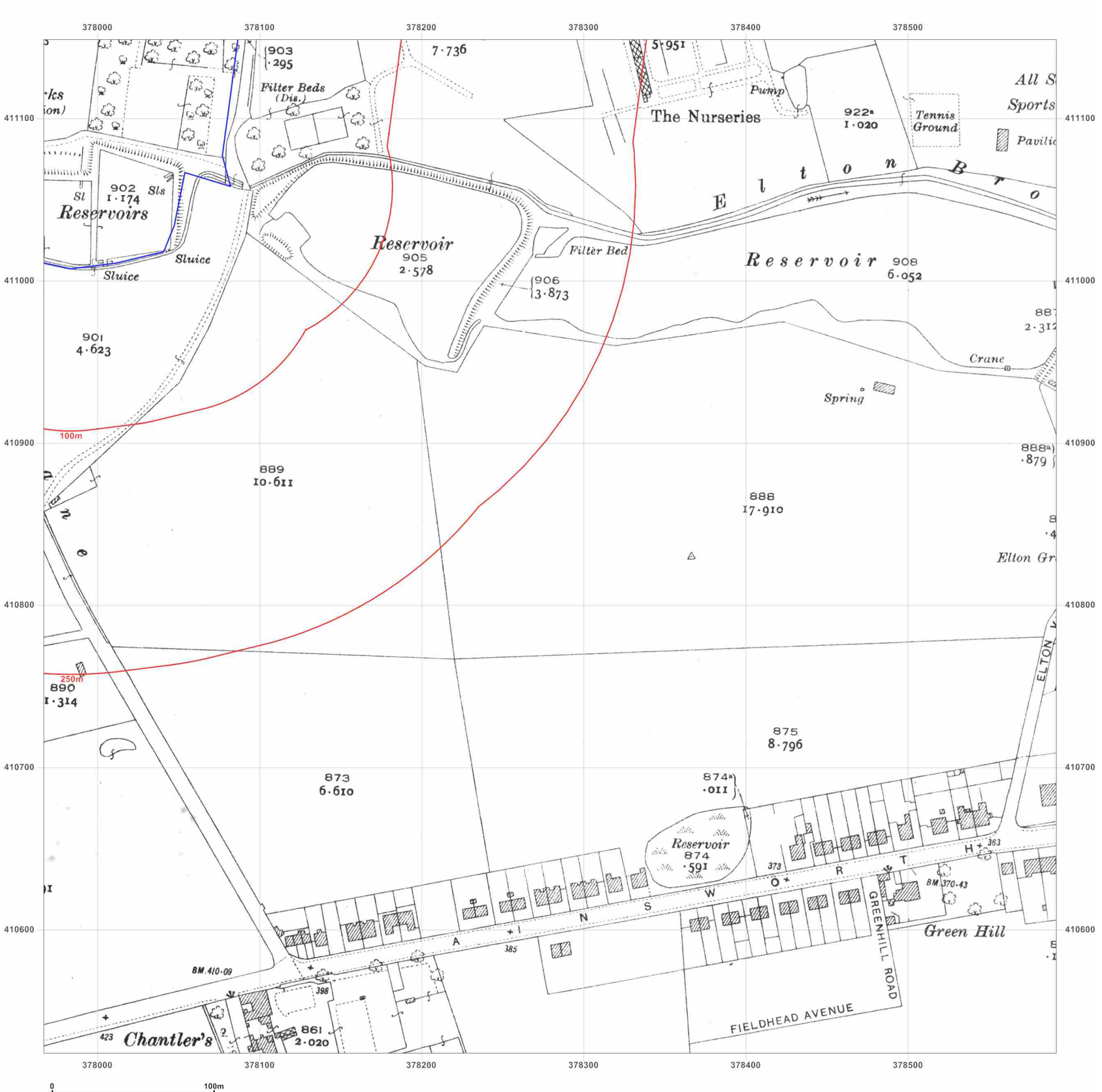
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

Map Name: County Series

Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

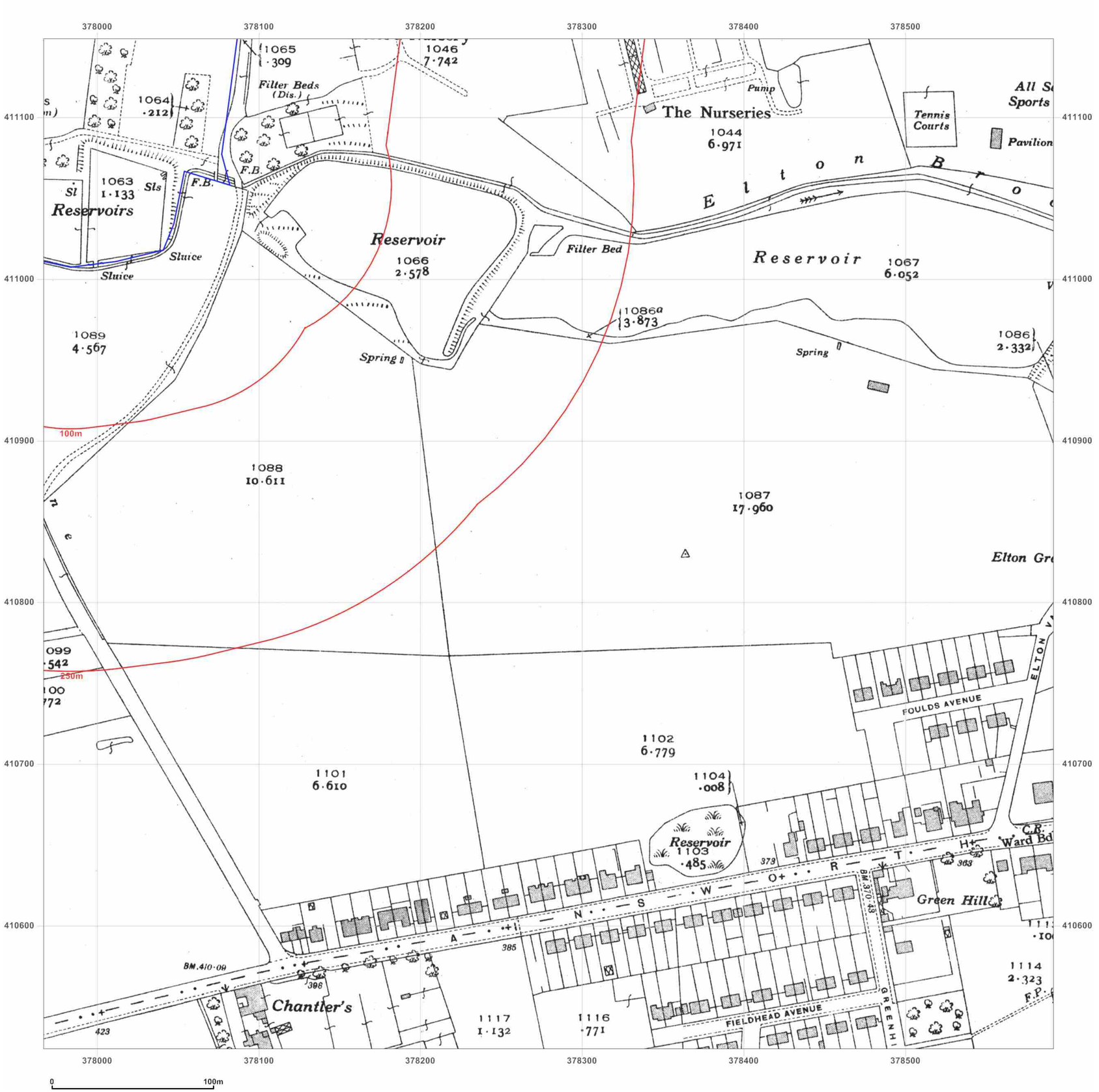
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Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

Map Name: County Series
Map date: **1939**
Scale: 1:2,500
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N
W E
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Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A

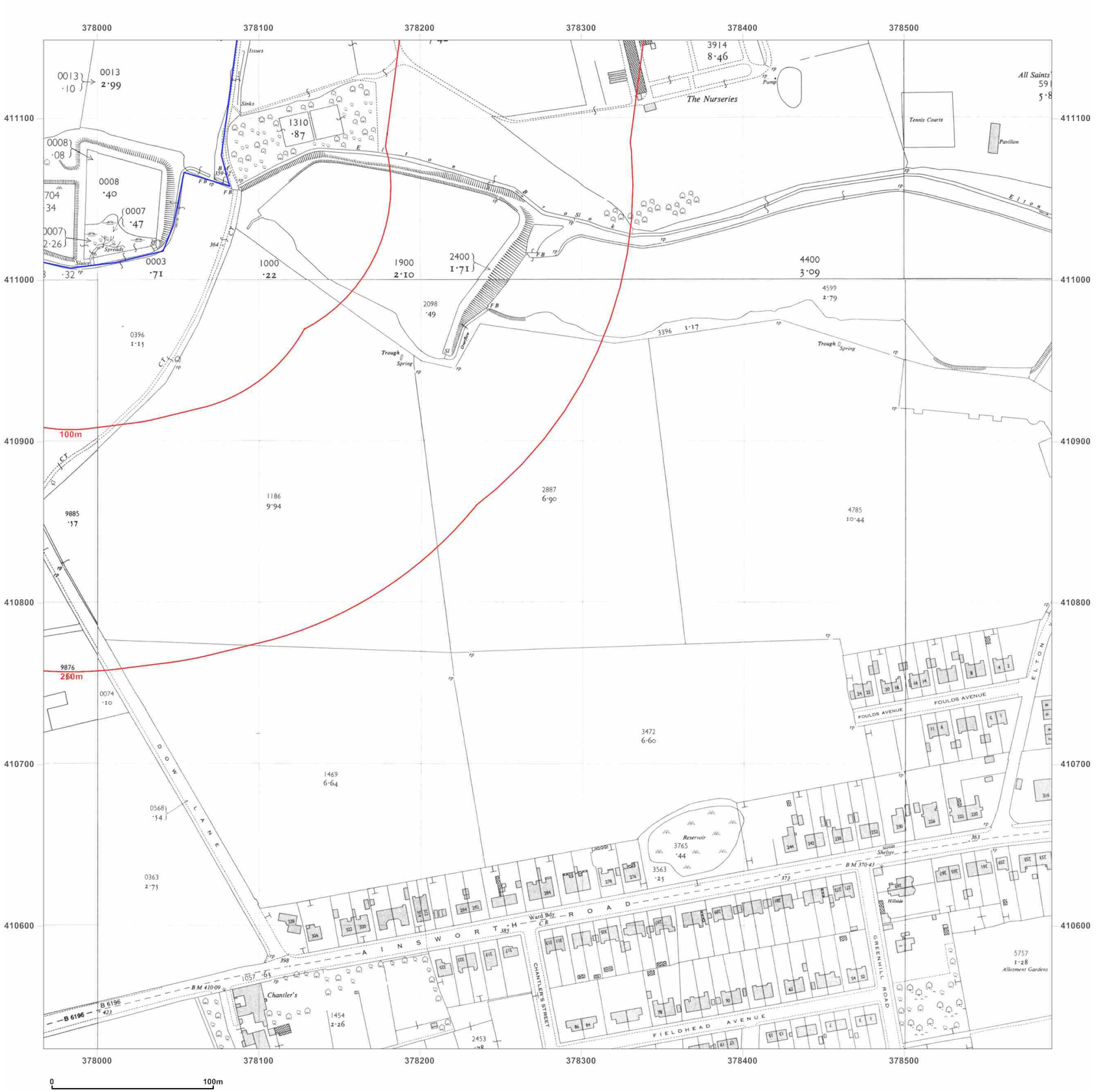
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Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

Map Name: National Grid

Map date: **1956-1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959
Revised 1959
Edition N/A
Copyright 1967
Levelled 1962

Surveyed 1959
Revised 1959
Edition 1960
Copyright 1960
Levelled 1957

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1927

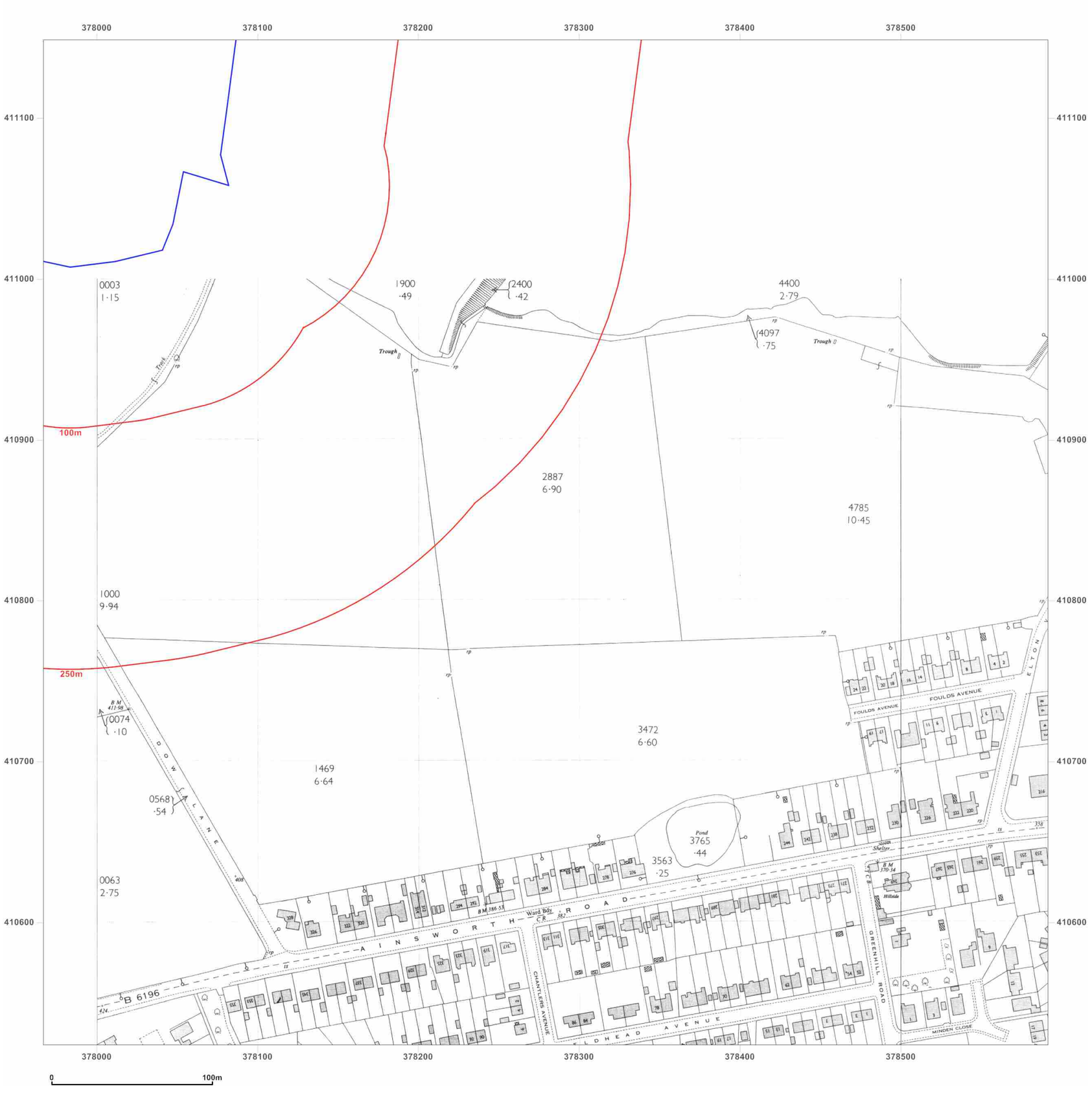
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Production date: 21 November 2019

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_1
Grid Ref: 378279, 410836

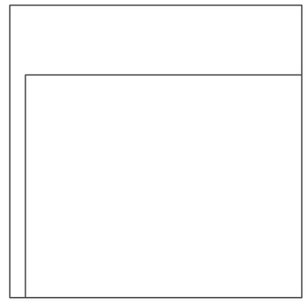
Map Name: National Grid

Map date: **1968**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1968
Revised 1968
Edition N/A
Copyright 1970
Levelled 1963

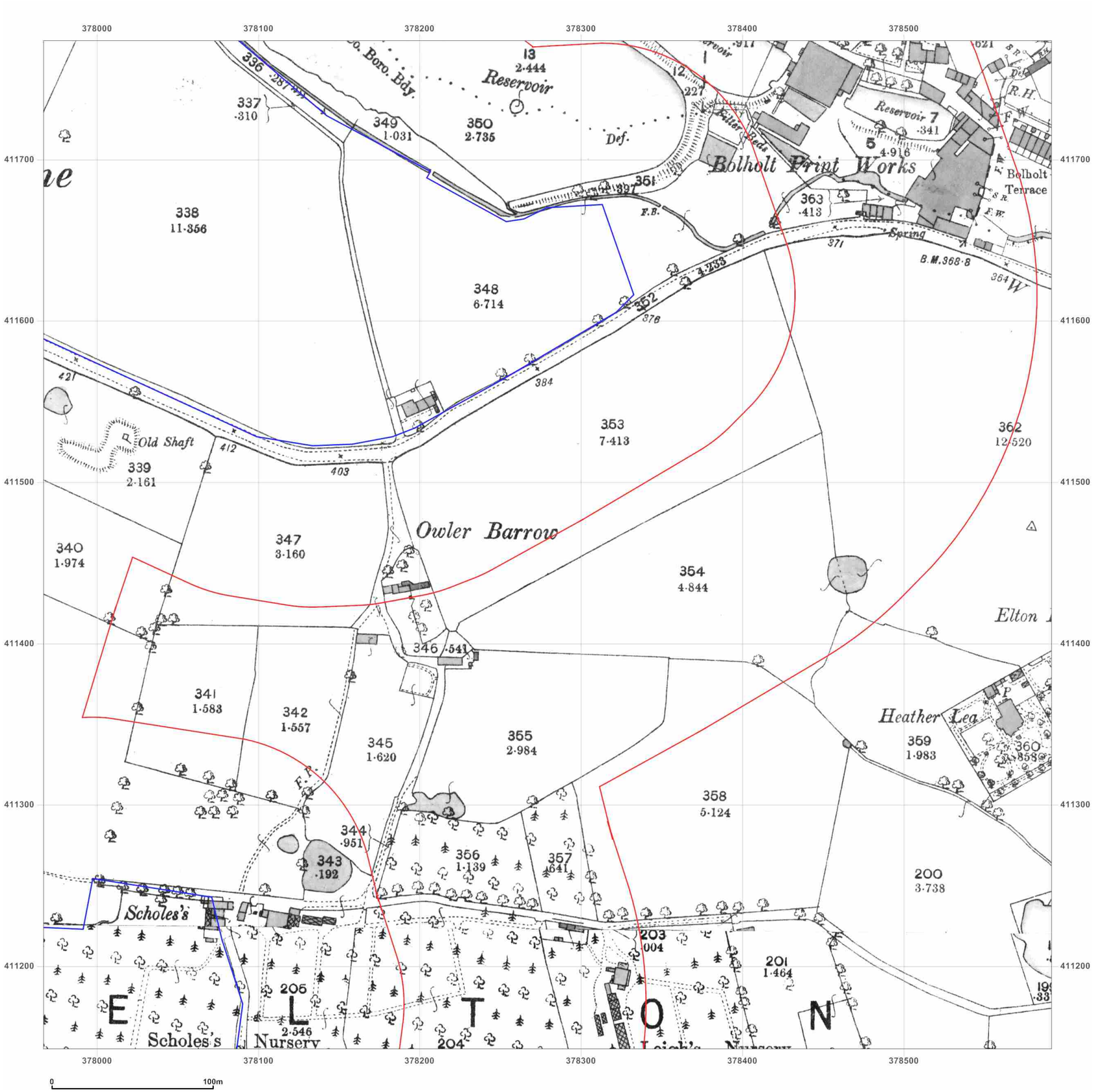
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_2
Grid Ref: 378279, 411461

Map Name: County Series

Map date: **1890**

Scale: 1:2,500

Printed at: 1:2,500

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

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

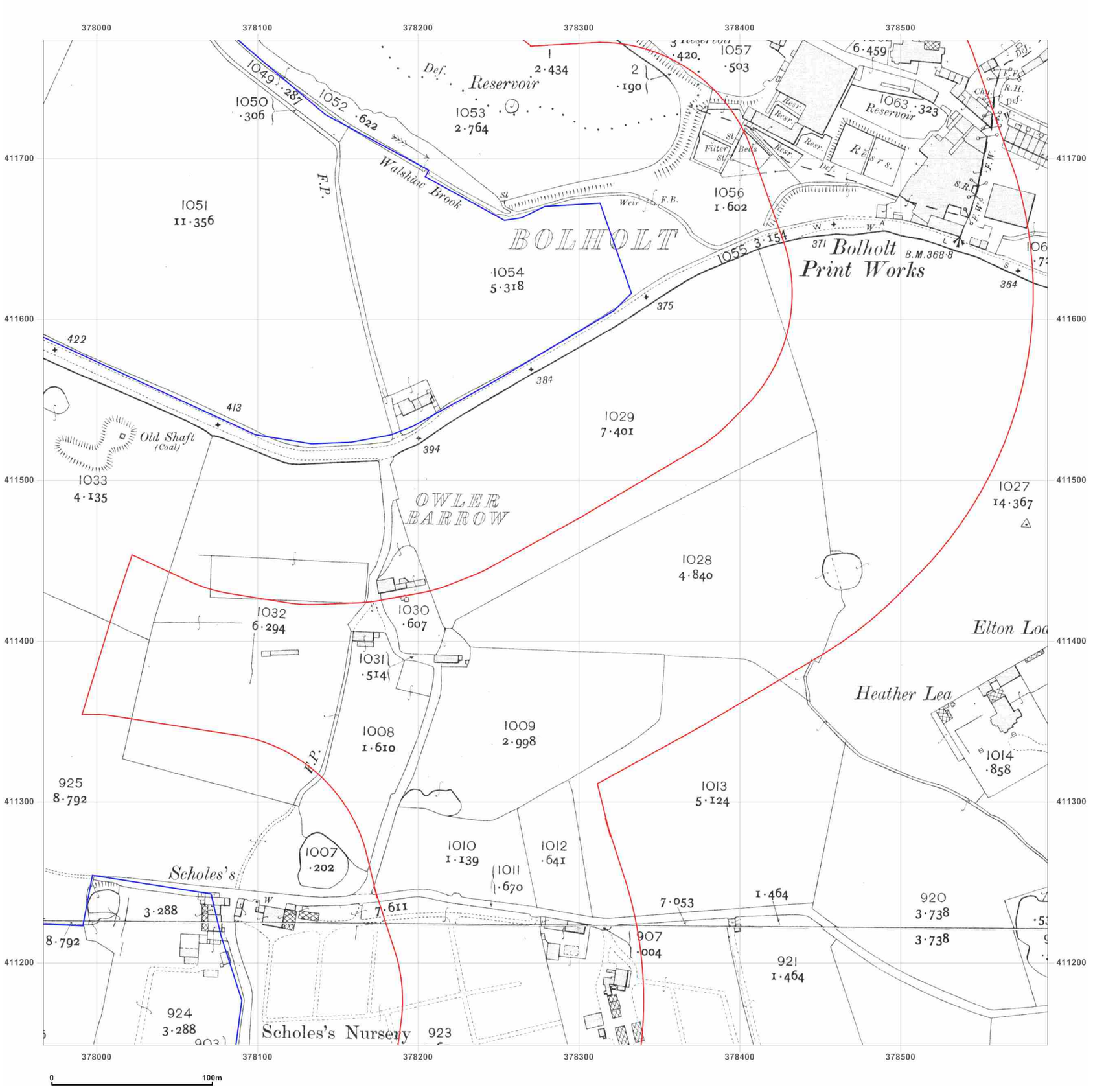
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Production date: 21 November 2019

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_2
Grid Ref: 378279, 411461

Map Name: County Series

Map date: **1910**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

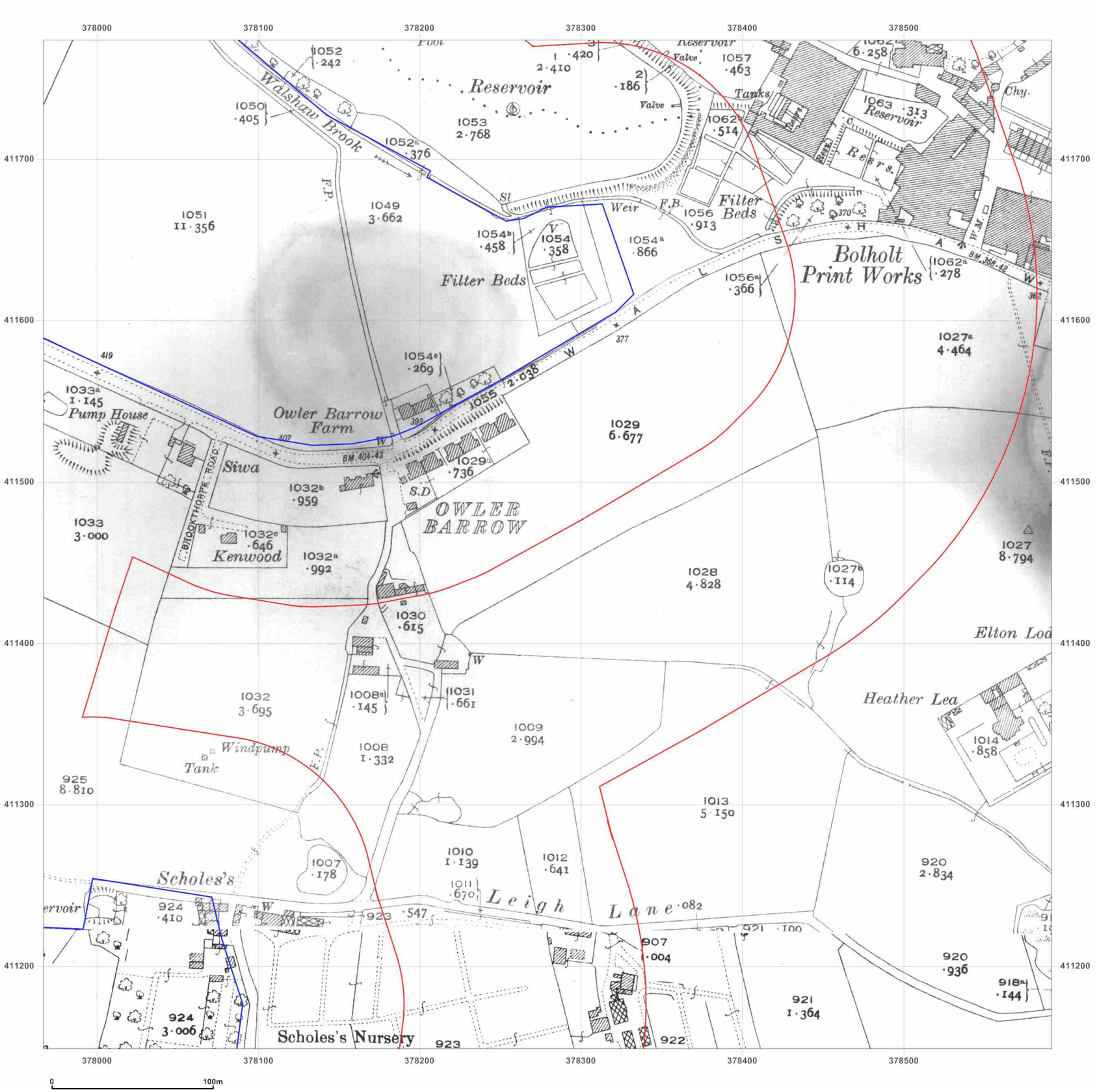
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_2
Grid Ref: 378279, 411461

Map Name: County Series

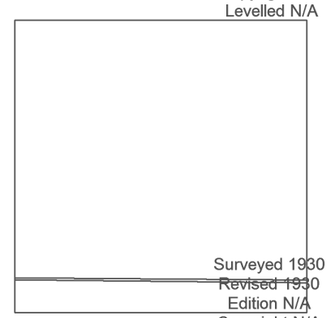
Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_2
Grid Ref: 378279, 411461

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1959	Surveyed 1959
Revised 1959	Revised 1959
Edition N/A	Edition 1960
Copyright 1967	Copyright 1960
Levelled 1962	Levelled 1957

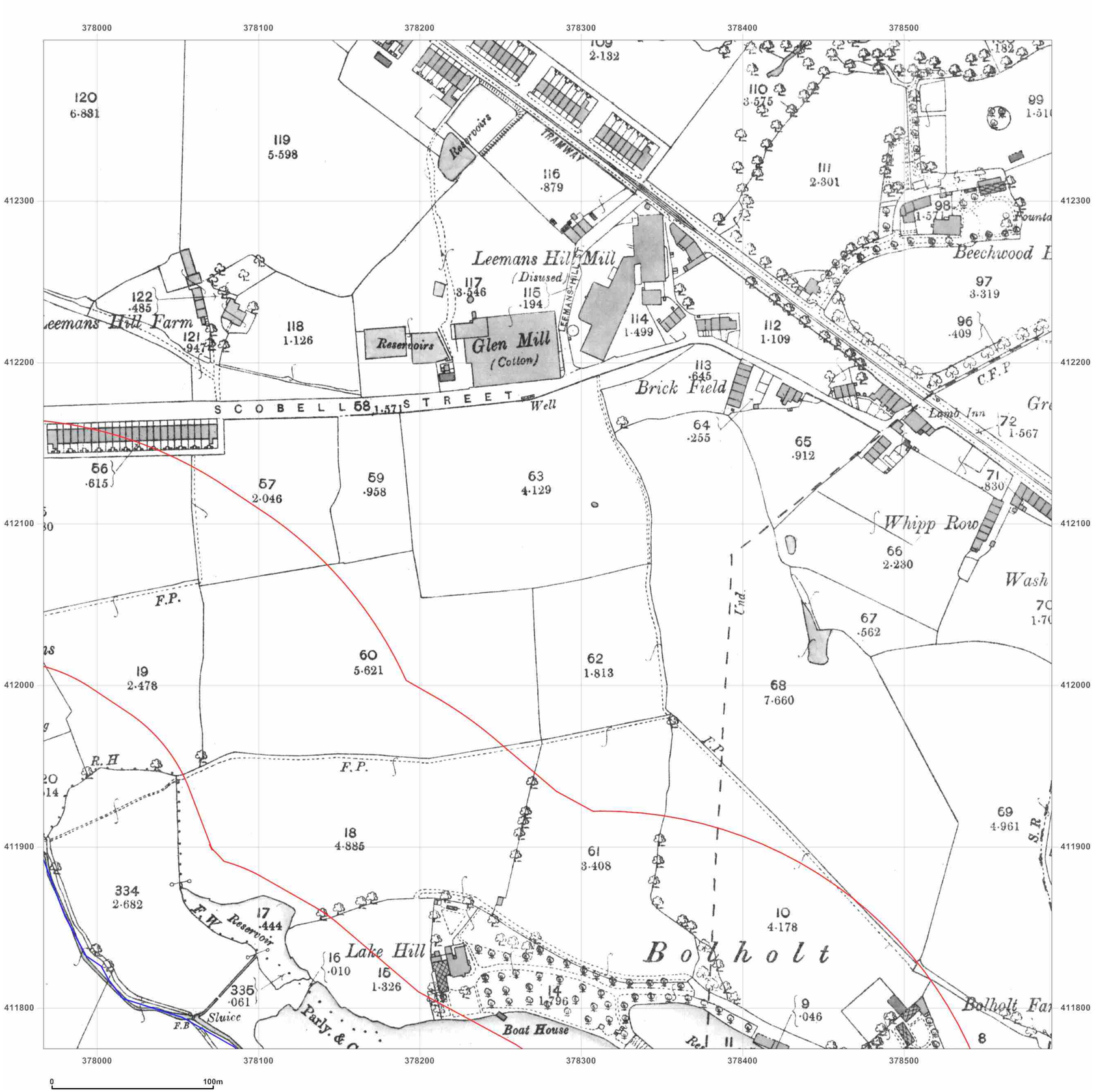
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Production date: 21 November 2019

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_3
Grid Ref: 378279, 412087

Map Name: County Series

Map date: **1890**

Scale: 1:2,500

Printed at: 1:2,500

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

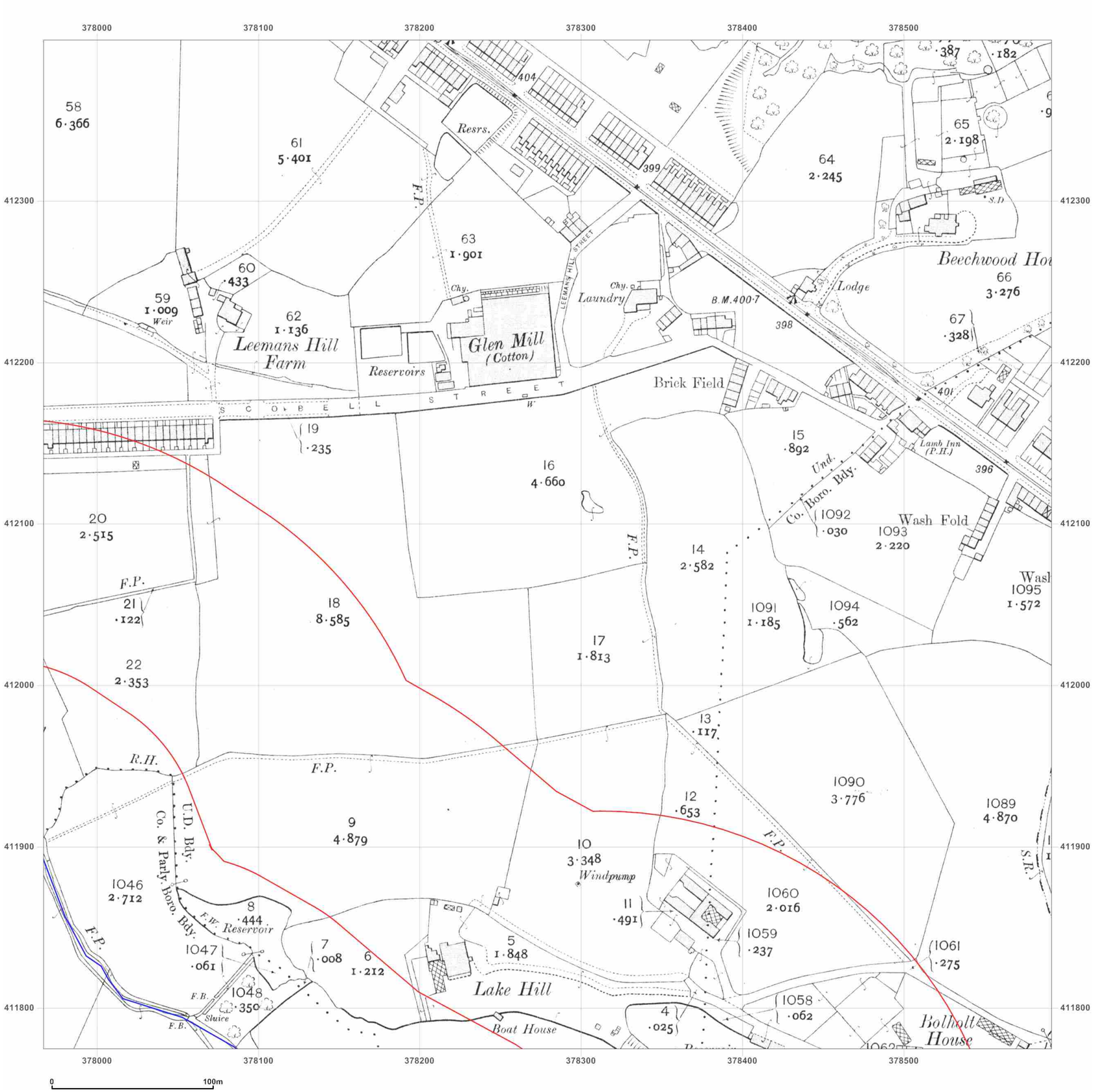
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Production date: 21 November 2019

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_3
Grid Ref: 378279, 412087

Map Name: County Series

Map date: **1910**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

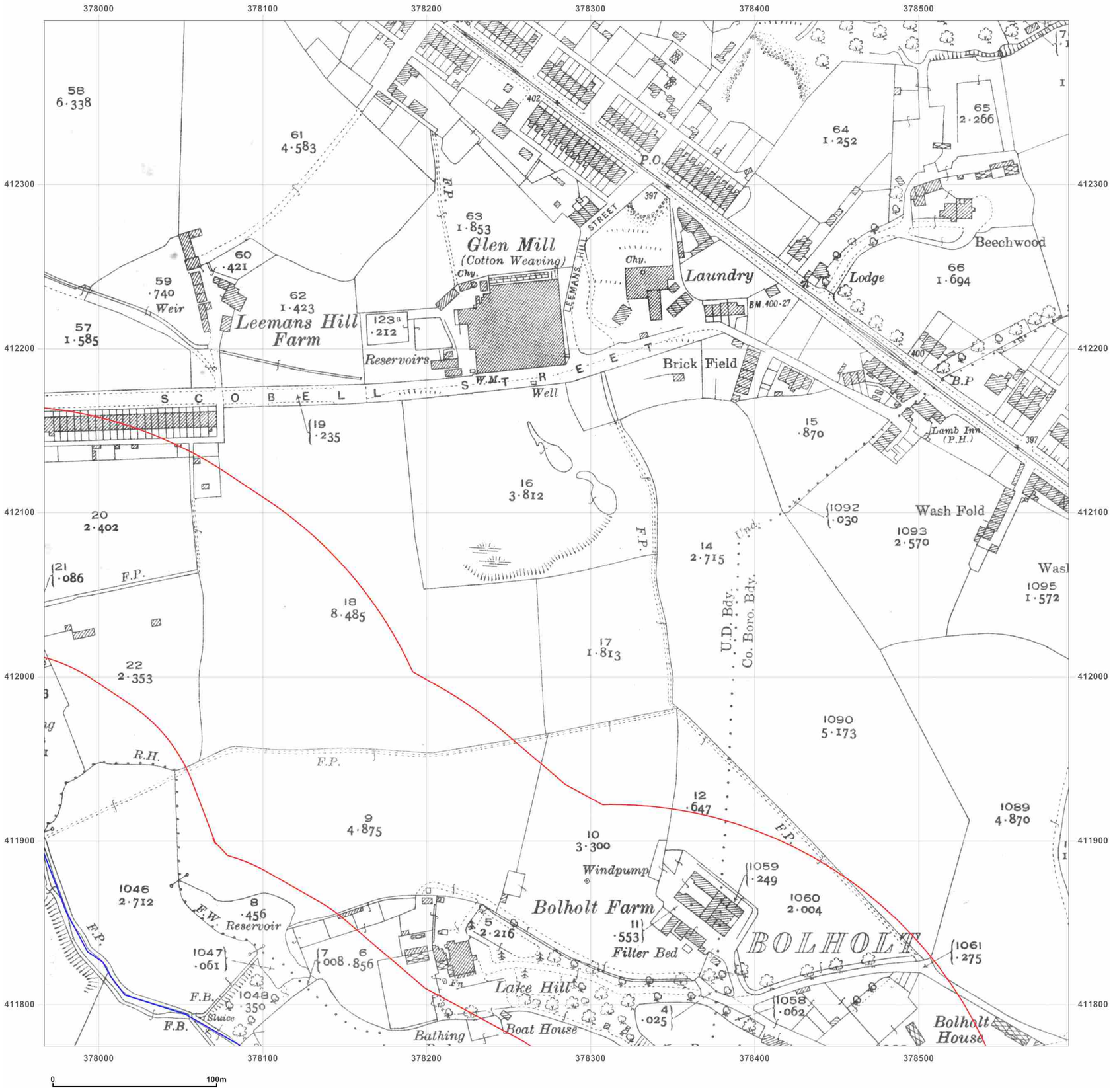
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_3
Grid Ref: 378279, 412087

Map Name: County Series

Map date: **1930**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_3
Grid Ref: 378279, 412087

Map Name: National Grid

Map date: **1959**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1959
Revised 1959
Edition 1961
Copyright 1961
Levelled 1961

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1967
Levelled 1962

Surveyed 1959
Revised 1959
Edition 1960
Copyright 1960
Levelled 1957

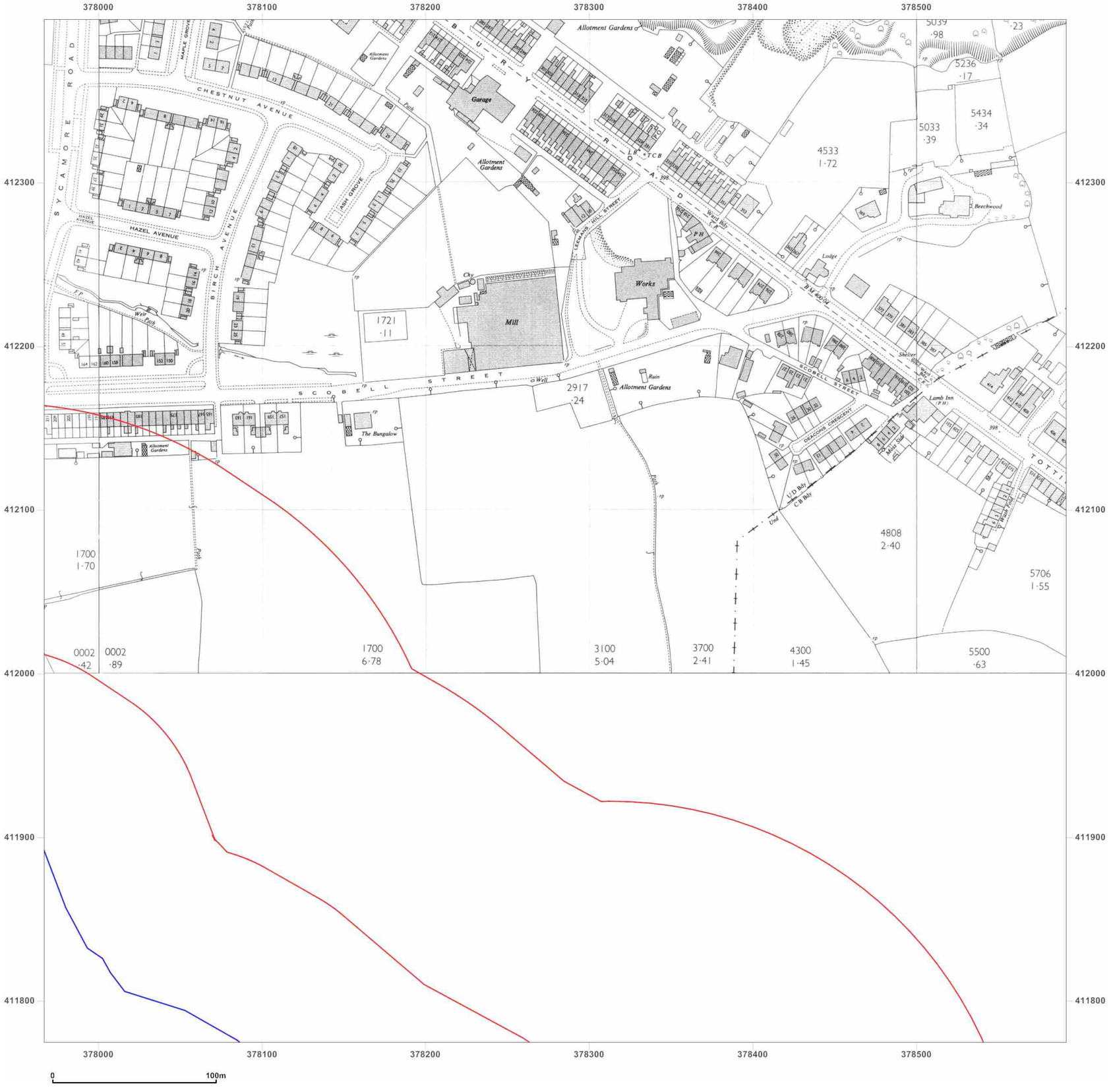
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609_LS_2_3
Grid Ref: 378279, 412087

Map Name: National Grid

Map date: **1965-1968**

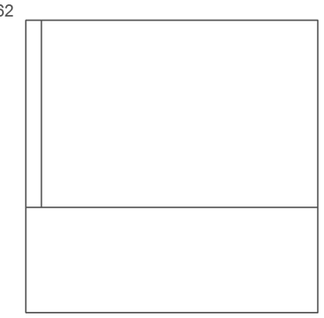
Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1962

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1970
Levelled 1962



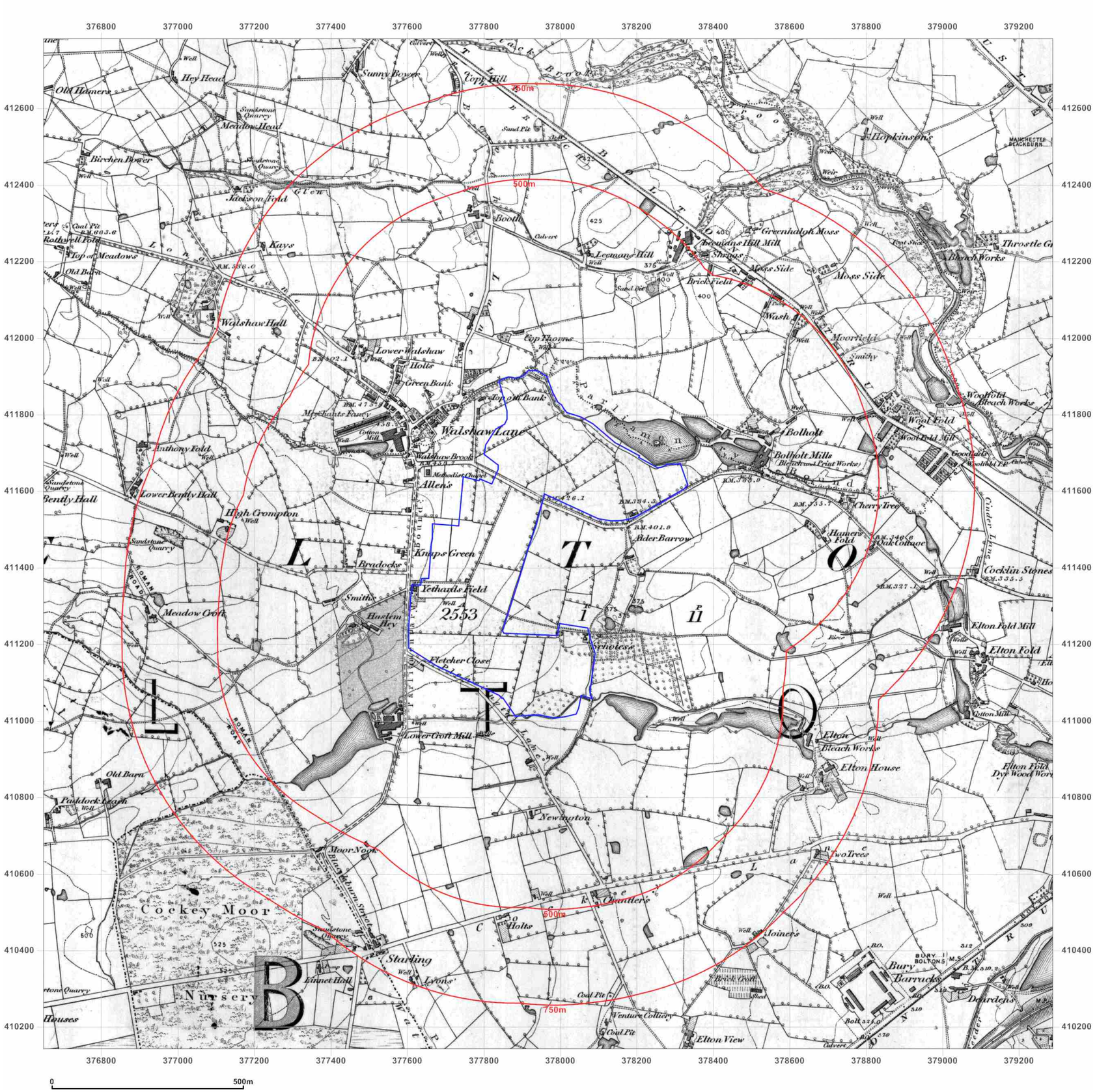
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Production date: 21 November 2019

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: County Series

Map date: **1850**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1847
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A

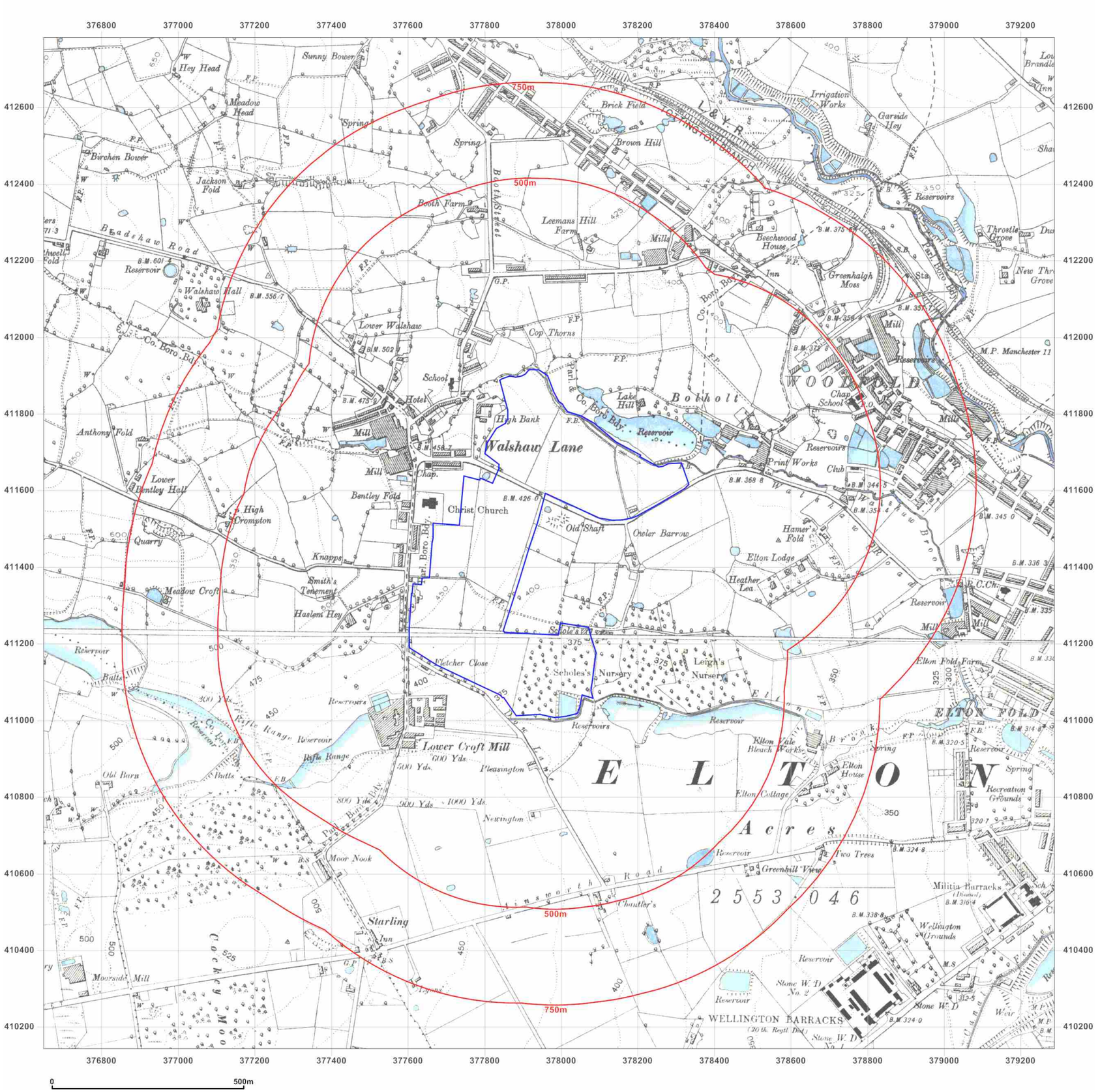
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Production date: 21 November 2019

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: County Series

Map date: **1890-1891**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

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

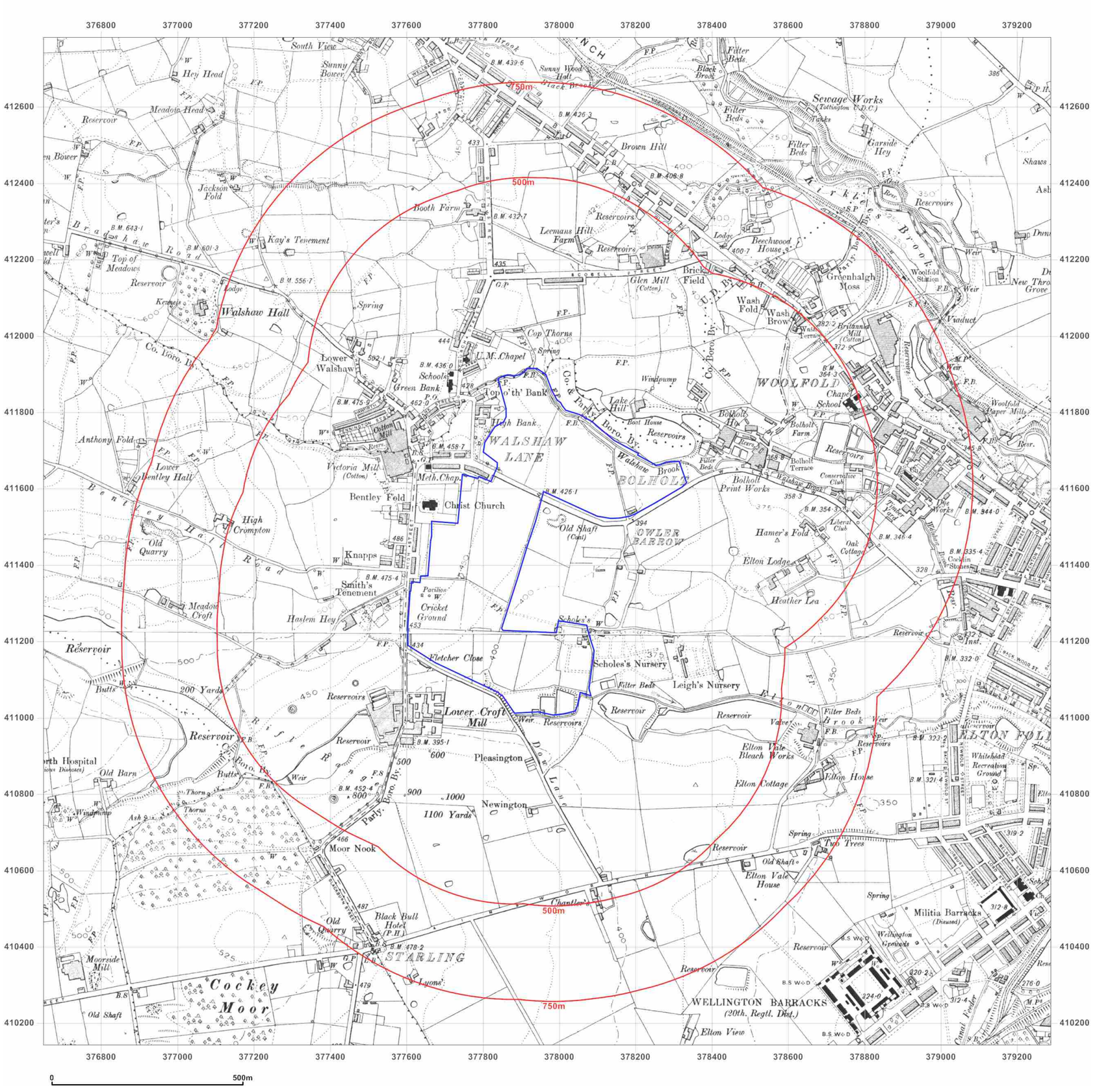
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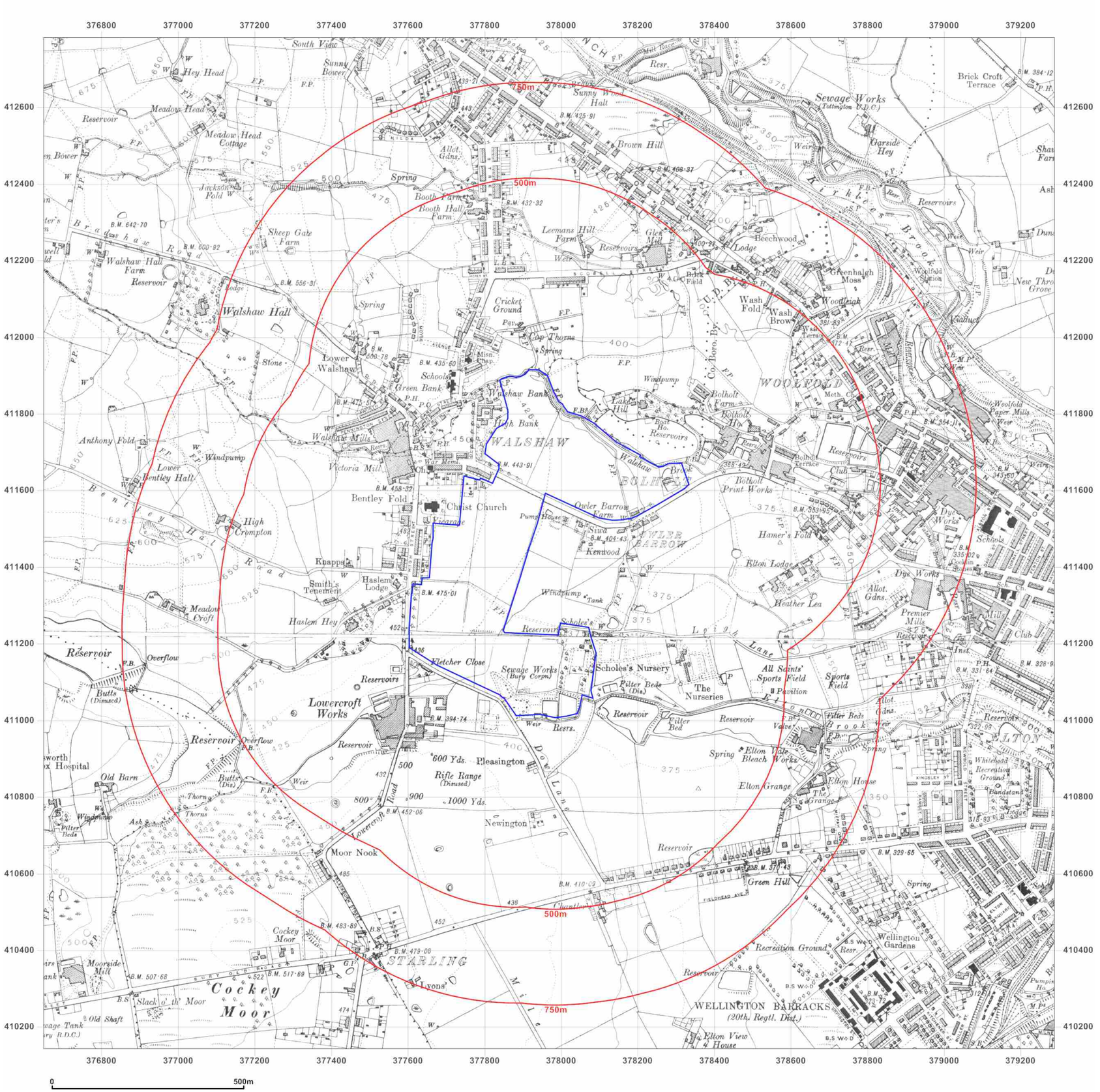
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411800
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411400
411200
411000
410800
410600
410400
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150m
500m
750m
Walshaw Hall
Lower Walshaw
Bentley Hall
Bentley Fold
Christ Church
WALSHAW LANE
BOLHOLT
WOOLFOLD
OWLER BARROW
STARLING
Cockey Moor
Pleasington
Newington
Lower Croft Mill
Scholes's Nursery
Leigh's Nursery
WELLINGTON BARRACKS
(20th. Regtl. Dist.)
Militia Barracks
Sewage Works
Greenhalgh Moss
Elton Lodge
Elton Cottage
Elton House
Elton Vale House
Elton Vale Bleach Works
Black Bull Hotel (P.H.)
Moor Nook
Old Quarry
Old Shaft
Reservoirs
Filter Beds
Viaduct
Weir
Spring
Windpump
Cricket Ground
Meth. Chap.
C.M. Chapel
Schools
Green Bank
Top o'th' Bank
Glen Mill (Cotton)
Victoria Mill (Cotton)
Britannia Mill (Cotton)
Lake Hill
Boat House
Bolholt Hall
Bolholt Terrace
Bolholt Print Works
Conservative Club
Liberal Club
Oak Cottage
Heather Lea
Hamer's Fold
Elton View
Two Trees
Chapel School
Woolfold Paper Mills
Whitehead Recreation Ground
Wellington Grounds
Brooklands
Brooklands Terrace
Beechwood House
Brick Field
Wash Fold
Wash Brow
Wash Terrace
Woolfold Station
Lodge
Cotton Mill
Print Works
Die Works
Pump Yard
Cocklin Stones
Cop Thorns
Anthony Fold
Lower Bentley Hall
High Crompton
Knapps
Smith's Tenement
Haslem Hey
Meadow Croft
Fletcher Close
Old Barn
Moorside Mill
Lyons'
Chantler's
Elton Vale
Militia Barracks
Brown Hill
Booth Farm
Leemans Hill Farm
Garside Hey
Jackson Fold
Kay's Tenement
Meadow Head
Hey Head
Sunny Bower
South View
Top of Meadows
Keeper's
Parsonage
Rectory
Vicarage
Parish Church
Rectory Gdns.
Whitehead Ground
Cricket Ground
Recreation Ground
Co. Boro. By.
Parly. Boro. By.
Walshaw Brook
Black Brook
Sunny Wood Holt
Elton Vale
Elton Fold
Shaws
Ash
Dunn
New Throstle Grove
Old Shaft (Coal)
Old Shaft (Coal)
Old Shaft
Old Quarry
Old Quarry
Reservoir
Reservoirs
Filter Beds
Sewage Works
(Tottington U.D.C.)
Works
Tanks



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: County Series

Map date: **1927-1928**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1844
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

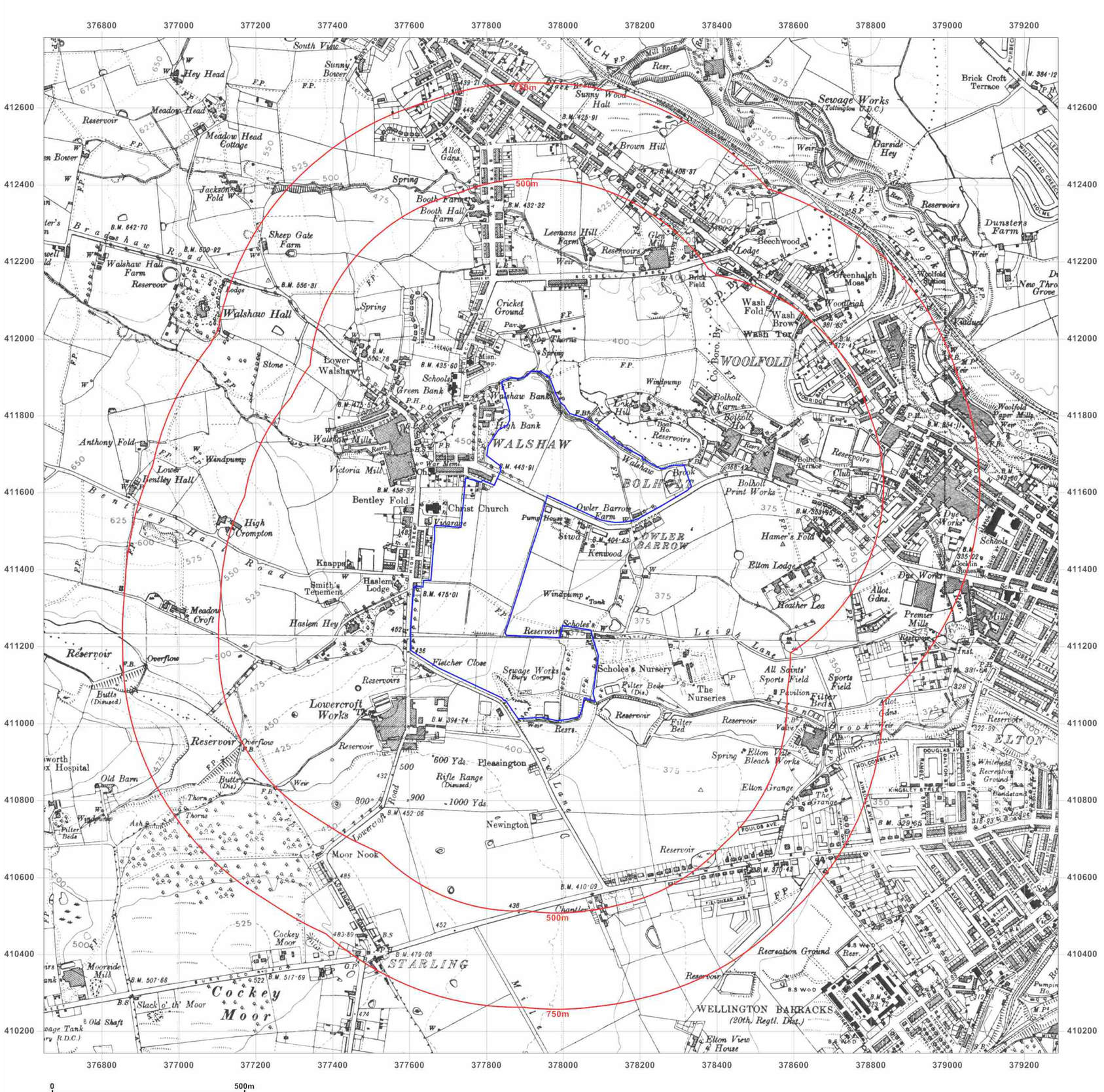
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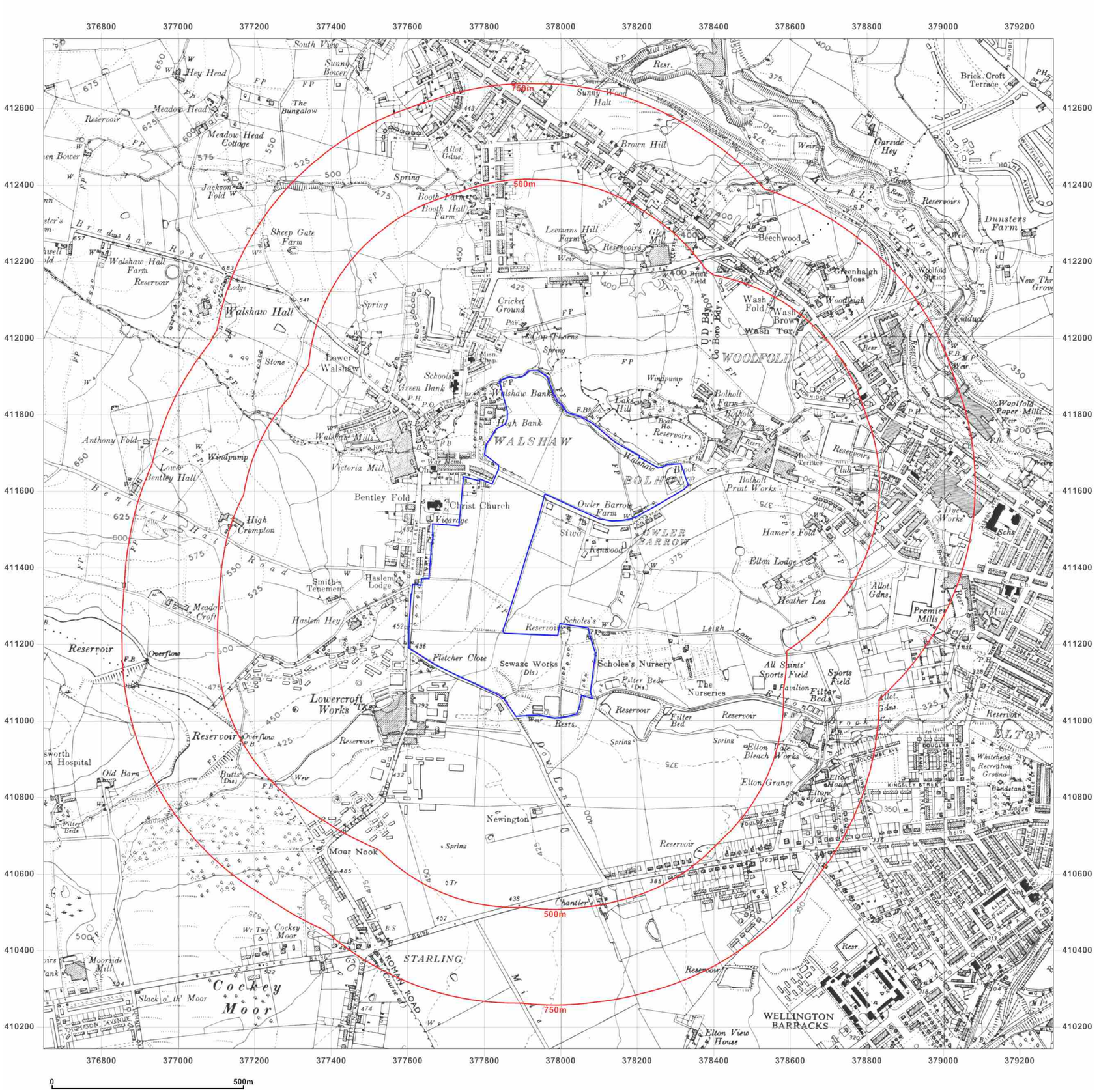
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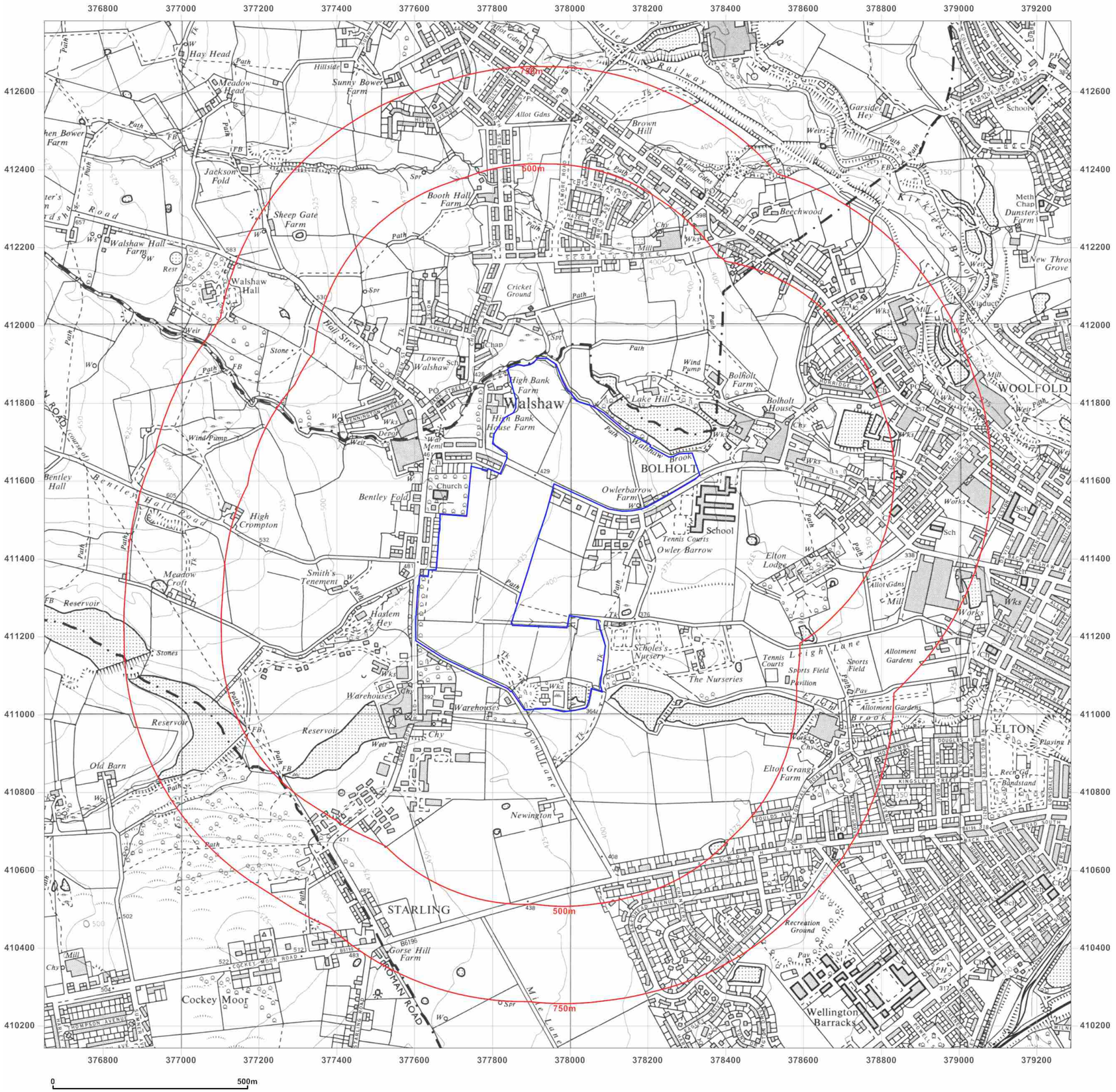
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Production date: 21 November 2019

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WALSHAW
WOOLFOLD
BOLHOLT
OWLER BARROW
STARLING
ELTON
Cockey Moor
Lowercroft Works
Pleasington
Newington
Christ Church
Walshaw Hall Farm
Bower Walshaw
Bentley Fold
Sunny Bower
Meadow Head
Meadow Head Cottage
Jackson's Fold
Sheep Gate Farm
Booth Farm
Booth Hall Farm
Leemans Hill Farm
Brown Hill
Sunny Wood Halt
Sewage Works
Garside Hey
Brick Croft Terrace
Dunsters Farm
Beechwood Lodge
Glen Mill
Greenhalgh Moss
Woodleigh
Wash Fold
Wash Brow
Wash Top
Cricket Ground
Green Bank
Schools
Walshaw Bank
High Bank
Victoria Mill
Anthony Fold
Lower Bentley Hall
High Crompton
Bentley Hall Road
Knapps
Smith's Tenement
Haslem Lodge
Haslem Hey
Meadow Croft
Fletcher Close
Scholes's Nursery
Scholes's
Sewage Works (Bury Corpn.)
Filter Beds (Dis.)
The Nurseries
All Saints' Sports Field
Sports Field
Pavilion
Filter Beds
Ellon Vale Bleach Works
Ellon Grange
Ellon Lodge
Heather Lea
Premier Mills
Dye Works
Bolholt Print Works
Bolholt Terrace
Bolholt Farm
Hamer's Fold
Windpump
Windpump Tank
Owler Barrow Farm
Kenwood
Siwd
Walshaw Brook
Reservoirs
Filter Bed
Recreation Ground
WELLINGTON BARRACKS
(20th, Regtl. Dist.)
Ellon View House
Old Barn
Butts (Disused)
Rifle Range (Disused)
600 Yds.
800
900
1000 Yds.
Lowercroft Road
Dowry Lane
Leigh Lane
Moor Nook
Cockey Moor
Slack o' th' Moor
Mooreside Mill
Old Shaft
Chantlers
Whitehead Recreation Ground
Woolfold Paper Mills
Woolfold Station
Irwell Valley Sewage Works (Tottington U.D.C.)
Irwell Valley Sewage Works (Bury Corpn.)
Irwell Valley Sewage Works (Bury R.D.C.)
Irwell Valley Sewage Works (Tottington R.D.C.)
Irwell Valley Sewage Works
Irwell Valley Sewage Works (Bury Corpn.)
Irwell Valley Sewage Works (Tottington U.D.C


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WALSHAW
BOLHOLT
WOOLFOLD
ELTON
STARLING
Cockey Moor
Walshaw Hall
Walshaw Hall Farm Reservoir
Bradshaw Road
Bentley Hall Road
Walshaw Bank
High Bank
Lower Walshaw
Green Bank
Christ Church
Vicarage
Bentley Fold
Anthony Fold
Lower Bentley Hall
High Crompton
Victoria Mill
Walshaw Mills
Owler Barrow Farm
Owler Barrow
Fletcher Close
Sewage Works (Dis)
Scholes's Nursery
Scholes's Reservoir
Lowercroft Works
Reservoir Overflow
Old Barn
Moor Nook
Newington
Dow Lane
Chantler's
Roman Road (Course of)
Meadow Croft
Haslem Hey
Haslem Lodge
Smith's Tenement
Moorside Mill
Slack o' th' Moor
Wellington Barracks
Ellon View House
Ellon Lodge
Heather Lea
Premier Mills
Hamer's Fold
Bolholt Print Works
Bolholt Terrace
Bolholt Farm
Lake Hill
Windpump
Brick Croft Terrace
Sunny Bower
Sunny Wood Halt
Brown Hill
Garside Hey
Meadow Head
Meadow Head Cottage
The Bungalow
Hey Head
Jackson Fold
Spring
Booth Farm
Booth Hall Farm
Sheep Gate Farm
Leemans Hill Farm
Gilch Mill
Beechwood
Greenhalgh Moss
Wash Fold
Wash Brow
Wash Tor
Woodhigh
Dunsters Farm
Reservoirs
Cricket Ground
Cop Thorns
Stone
Schools
Misn. Chap.
Brick Field
Allot. Gdns.
Leigh Lane
All Saints' Sports Field
Pavilion
Sports Field
Filter Beds
The Nurseries
Elton Vale Bleach Works
Elton Grange
Elton House
Whitehead Recreation Ground
Bandstand
Woolfold Paper Mills
Woolfold Station
Viaduct
Inst.
Mills
Dye Works
Schs
Works
Resr.
Weir
Spring
Reservoir
Filter Bed
Filter Beds
Sewage Works (Dis)
Pal'ter Bede (Dis.)
Rests.
Tr
Wr Twr
Cockey Moor
Ch
Mus
Windpump
Boat Ho.
Reservoirs
Club
Gdns.
Allot. Gdns.
Pav.
Lodge
Stone
Spring
Overflow
Resr.
Weir
Reservoir
Reservoirs



Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: Provisional

Map date: **1969**

Scale: 1:10,560

Printed at: 1:10,560

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

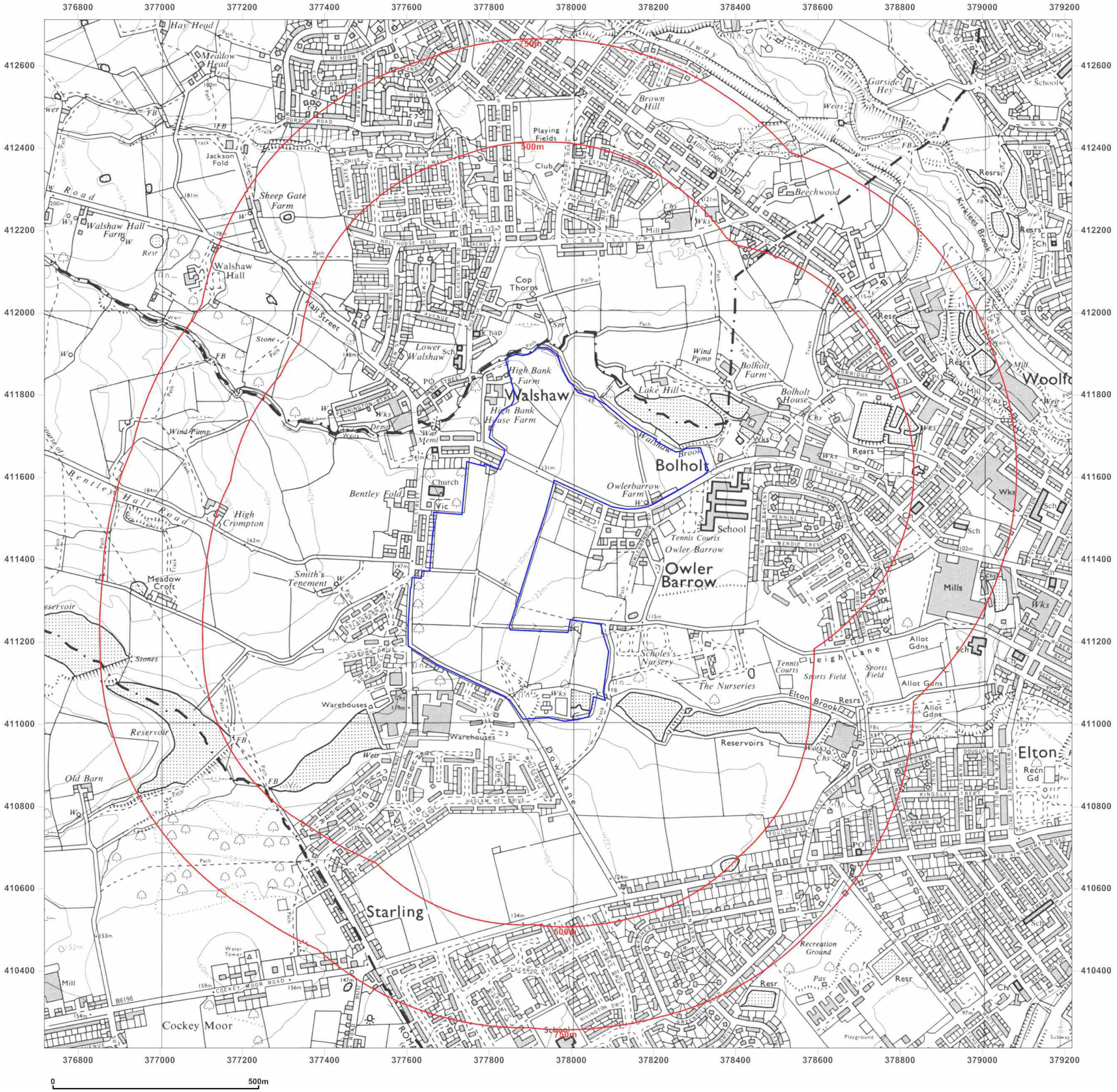
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Production date: 21 November 2019

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: National Grid

Map date: **1974**

Scale: 1:10,000

Printed at: 1:10,000

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

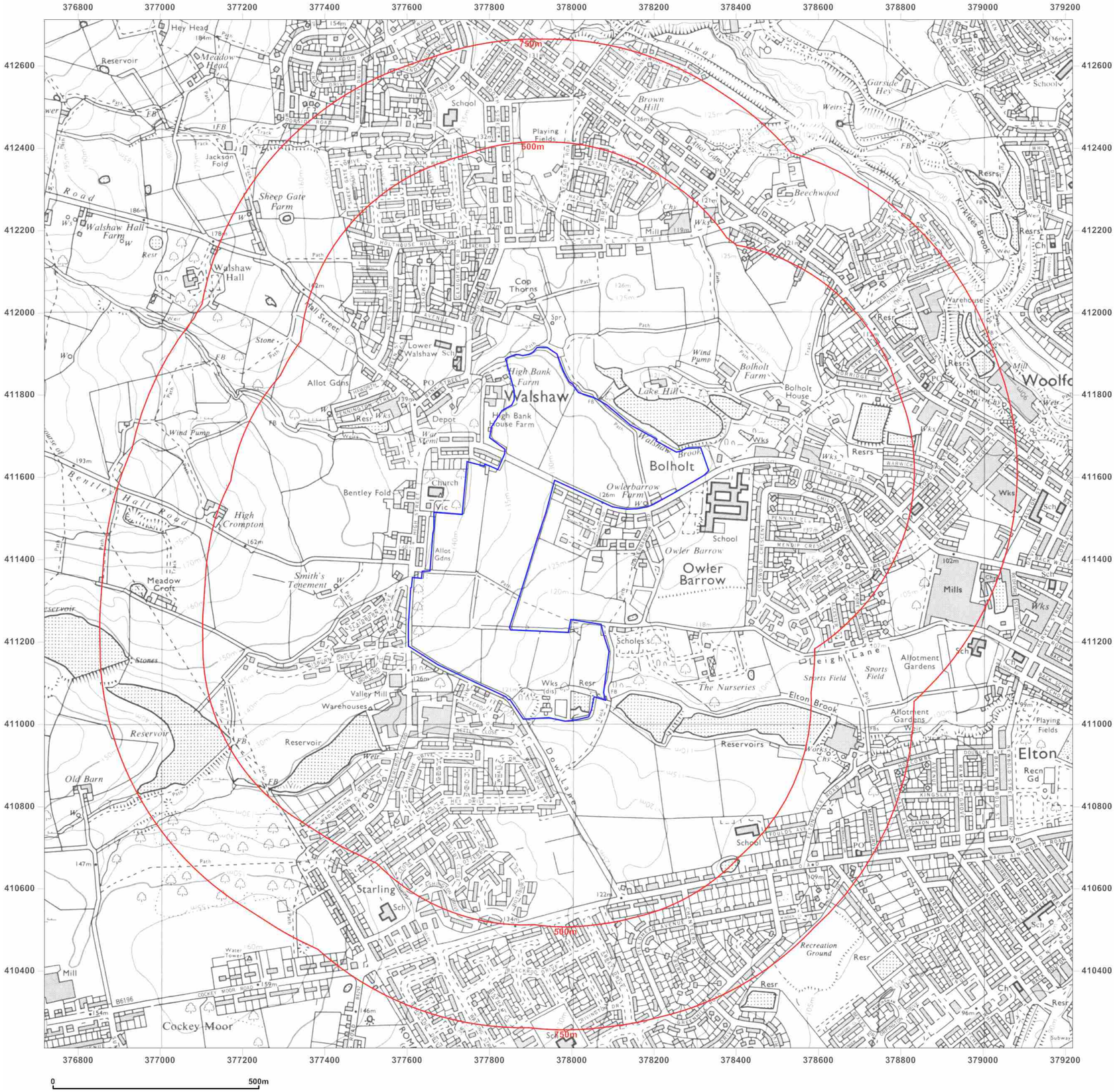
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: National Grid

Map date: **1980**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1978
Revised 1980
Edition N/A
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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N W E S

2010

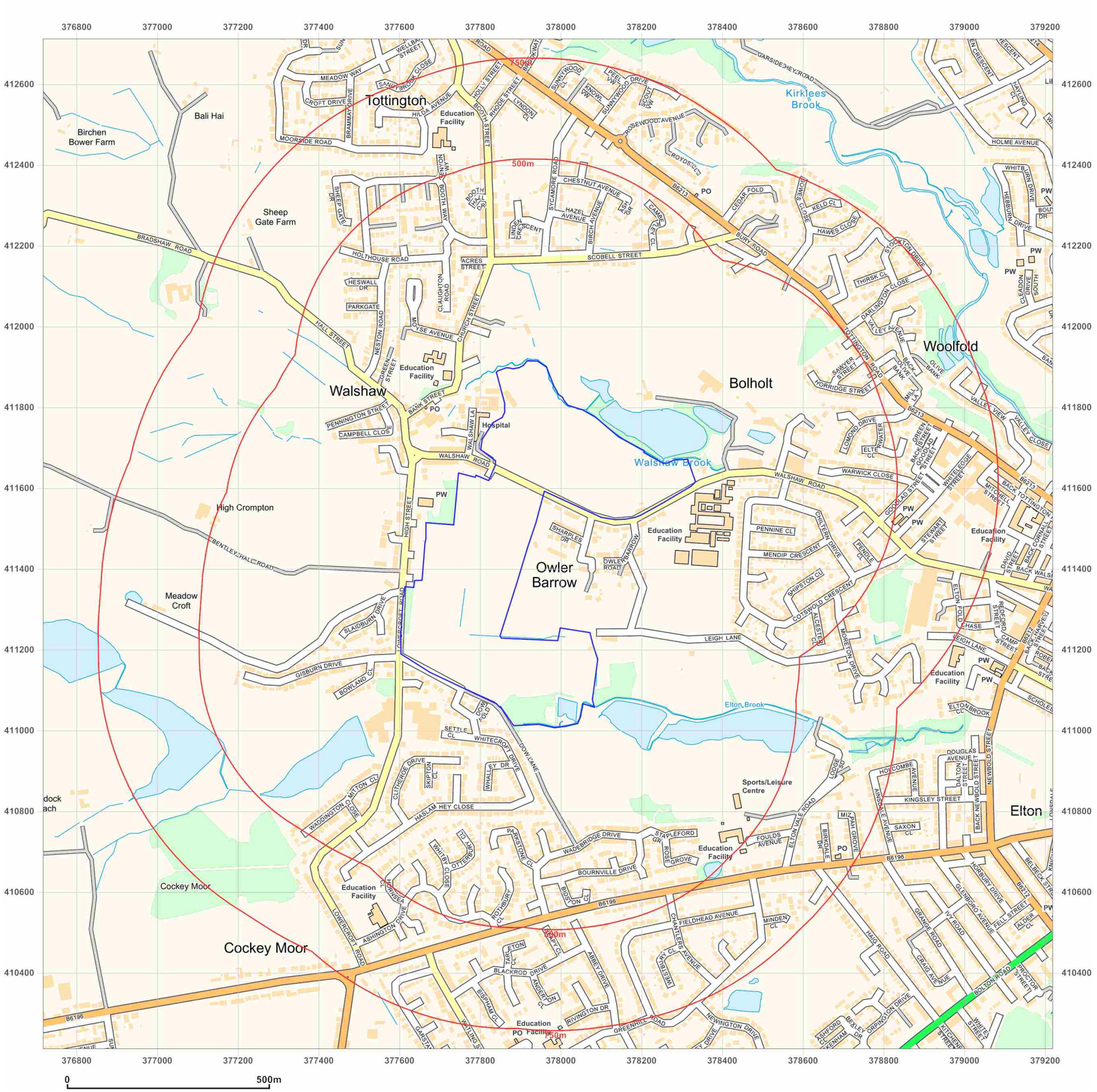
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Groundsure INSIGHTS

Site Details:

Walshaw Road, Bury, BL8 3AE

Client Ref: 107765_Walshaw_Road_PO7772
Report Ref: GS-6476609
Grid Ref: 377967, 411462

Map Name: National Grid

Map date: **2019**

Scale: 1:10,000

Printed at: 1:10,000

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2019

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Production date: 21 November 2019

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

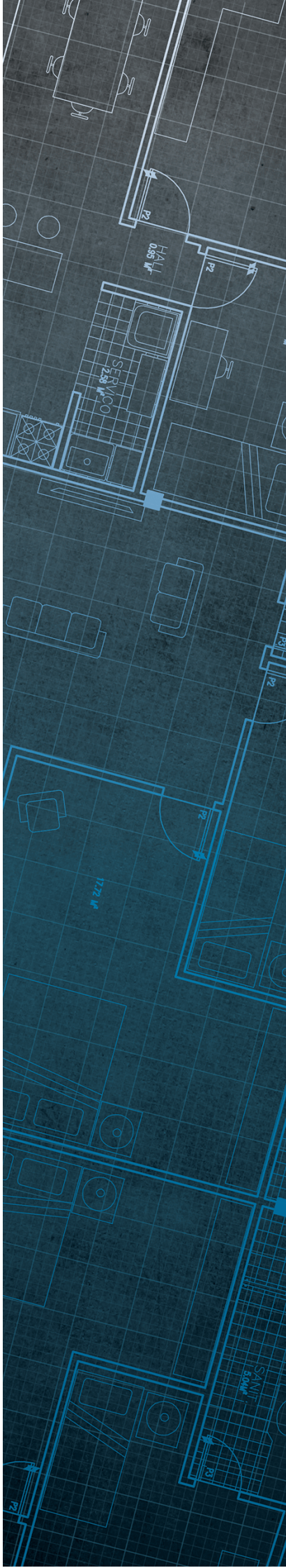
The Coal Authority

Consultants

Coal Mining Report

Walshaw Road, Bury, Bl8 3ae
Greater Manchester

Date of enquiry:	**21 November 2019**
Date enquiry received:	**21 November 2019**
Issue date:	**21 November 2019**
Our reference:	**51002190711001**
Your reference:	**GS-6476610**



Consultants

Coal Mining Report

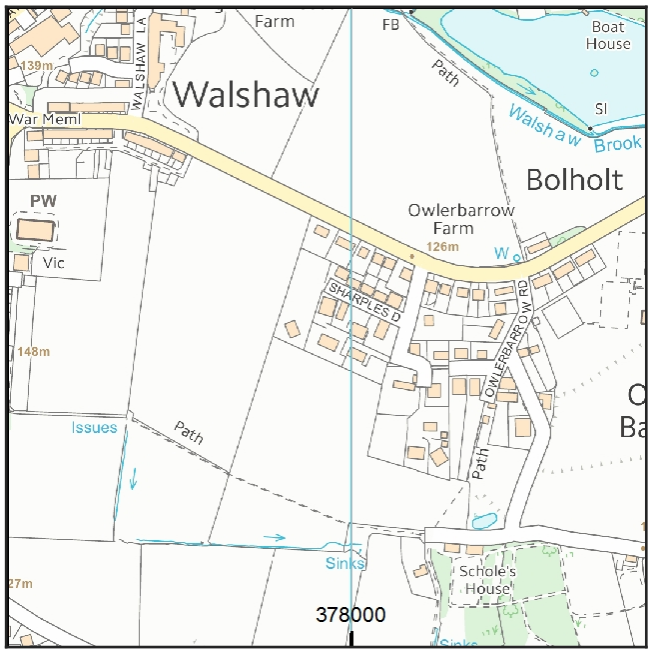
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Walshaw Road, Bury, Bl8 3ae
Greater Manchester



Approximate position of property

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	CANNEL	Coal	3XC6	42	Beneath Property	9.5	South	130	1876
unnamed	PLODDER	Coal	3YAX	56	South-West	10.0	South	50	1878

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	377411-001	377942 411908		Coal	
Shaft	377411-002	377982 411826		Coal	
Shaft	377411-003	377898 411935		Coal	
Shaft	378411-001	378132 411792		Coal	
Shaft	378411-002	378015 411526	Records held by the Coal Authority indicate that this shaft was filled by Thos Kent and Son Building Contractors in 1971	Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

839D	839	16820

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
CANNEL	Coal	Yes	Within	N/A	24
PLODDER	Coal	Yes	Within	N/A	42
TRENCHERBONE	Coal	Yes	Within	N/A	50

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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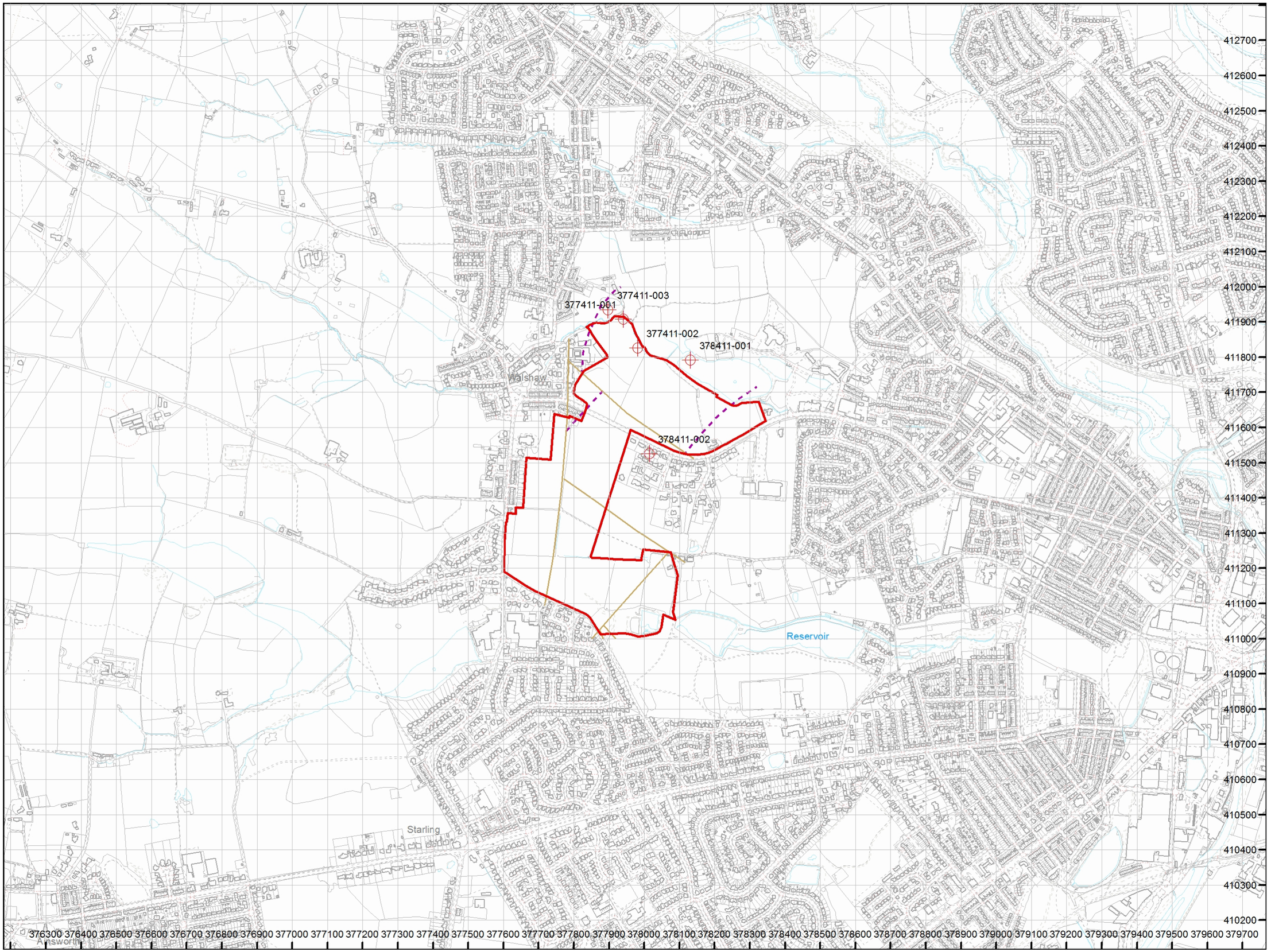
Summary of findings

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Map data

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Outcrop (Conjectured)
- Geological faults



How to contact us
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+44 (0)1623 637 000 (International)
www.groundstability.com