Land at Thomas Street
Lindley, Huddersfield

Ground Investigation

April 2023

22052/1 revision 1

MÜLLER
PROPERTY GROUP

PROJECT QUALITY ASSURANCE
INFORMATION SHEET

GROUND INVESTIGATION

THOMAS STREET, LINDLEY
HUDDERSFIELD, HD3 3JJ

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TABLE OF CONTENTS

TABLES

APPENDICES

APPENDIX A DRAWING

EXECUTIVE SUMMARY

GROUND INVESTIGATION

THOMAS STREET, LINDLEY
HUDDERSFIELD, HD3 3JJ

Georisk Management Limited has been commissioned to carry out a ground investigation for the proposed redevelopment at the above site.

Phase I	Comments
The Site	The site is situated to the south of Thomas Street in Lindley, Huddersfield and can be located approximately by National Grid Reference 411650, 418280. It covers an area of approximately 0.25 hectares and comprises recently cleared land with mature trees along the western boundary and in the north-west and south-west corners. Small areas of dense, overgrown vegetation in the north-east corner and approximately half-way along the western boundary. A concrete pad foundation of a former building is adjacent to the northern boundary. Topography across the western half of the site is generally level at approximately 211 m AOD. Earth banks separate the eastern and western sides of the site, with the north-east at a level of approximately 210 m AOD and the south-east at approximately 209 m AOD. The site is bordered by Thomas Street to the north, Thorncliffe Street to the east and Brian Street to the south, with housing beyond these and bordering the site to the west. No evidence of potential significant contamination was noted during the site walkover.
Site History	Historical maps indicate that the site comprised back-to-back terraced housing from at least 1893 until 1977. A children's home was built between 1981 and 1993, which has been demolished recently and remained vacant since. The surrounding area comprised mixed undeveloped land and housing with increasing housing throughout the 20th century. Nearby historical industrial uses have included various works and mills.
Geology	The geology beneath the site is anticipated to comprise Made Ground overlying the Soft Bed Flags (sandstone) of the Pennine Lower Coal Measures Formation of Carboniferous age.
Coal Mining	The site is not in an area affected by past shallow coal mining activities.
Hydrology	There are no surface watercourses (rivers/streams) mapped within 250 m of the site. The EA has no records of any licensed surface water abstractions within 250 m of the site. The EA has no records of any active licensed discharge consents within 250 m of the site.
Flood Risk	The EA indicate the site is not in an area likely to be affected by river flooding.
Hydrogeology	The Soft Bed Flags is classified by the EA as a *'Secondary – A'* aquifer. The EA has no records of any licensed groundwater abstractions within 250 m of the site. It is not mapped by the EA within a groundwater Source Protection Zone.
Landfills	The EA has no records of any active licensed waste management facilities (landfills) within 250 m of the site. The EA and Local Authority (LA) have records of 1 No. historical landfill site within 250 m of the site: Birchencliffe Tip was located approximately 180 m to the north-west and was licensed between 1961 and 1974 to accept waste including industrial, commercial and household waste.
Pollution	The EA has records of no records of any recent and significant/major pollution incidents to controlled waters within 250 m of the site. The Envirocheck Report does not identify any sites within 250 m of the study area that are potential pollution hazards or potential sources of industrial pollution and regulated under the EC Integrated Pollution Prevention and Control Directive (IPPC).
Radon	Radon protection measures are not required for the proposed development at the site.

Phase II	Comments
Ground Conditions	**Made Ground** was encountered across the site to depths of generally between 1.0 and 3.0 m begl, with deeper Made Ground recorded in TP2, TP5 and WS3 that is in excess of 3.0 m thick and, in places, over 6.0 m thick. Buried brick walls, likely forming historical basements, were encountered in TP1, TP5 and TP7 and in TP5, the walls on the northern and western sides of the trial pit extended beyond the depth excavated. It was variable and typically comprised dark brown gravelly sand or light brown sandy gravel overlying sandy gravel and cobble or soft to firm sandy gravelly clay. The gravel and cobble content comprised quartzite, gravel, sandstone, coal, brick, concrete, plastic and metal. The **Soft Bed Flags** was encountered beneath the Made Ground. It generally comprised weathered soil described as soft or soft to firm sandy gravelly clay and loose or medium dense orangish brown, brown and light grey gravelly sand. Light greyish brown or brown sandstone was encountered at 1.35 m begl in TP7 and 4.9 m begl in WS2, with drilling refusals at 3.0 m begl in WS1 and WS4 and 1.5 m begl in WS6 on possible bedrock.
Contamination	No visual/olfactory evidence of potential significant contamination was recorded during the fieldwork.
Groundwater	During the fieldwork, groundwater was encountered at a depth of 2.8 m begl in WS2 and 4.0 m begl in WS5. All other exploratory hole locations remained dry. Subsequent monitoring of standpipes installed in WS2 and WS4 recorded a standing water level of approximately 2.9 m begl in WS2 during the first monitoring visit. The installations have both remained dry throughout the remainder of the monitoring programme.
Soil-Gas	No methane has been recorded during the monitoring programme. Steady state carbon dioxide levels have ranged from 0.2 to 1.4 % by volume (% v/v) during the monitoring programme. No positive gas flow was recorded and ambient atmospheric pressures have ranged from 983 to 1003 mb.
Environmental Assessment	**Comments**
Soil Contamination	The majority of the test results for the contaminants of concern are below the relevant assessment criteria (S4UL/C4SL/SSV); however, the following results exceed the relevant assessment criteria in Made Ground: • WS1 at 0.5 m begl: dibenz(ah)anthracene (0.37 mg/kg); • WS4 at 0.5 m begl: benzo(a)pyrene (5.0 mg/kg), benzo(b)fluoranthene (5.6 mg/kg) and dibenz(ah)anthracene (1.1 mg/kg); • WS6 at 0.2 m begl: dibenz(ah)anthracene (0.37 mg/kg); • WS1 at 0.5 m begl: chrysotile asbestos (0.002 %).
Risk Evaluation: Human Health	The site is to be redeveloped with construction of a new care home with soft landscaped amenity areas. Future site users should be considered as targets by physical contact, ingestion and dust inhalation associated with potentially contaminated Made Ground beneath soft landscaping. The majority of test results are below the adopted assessment criteria for the proposed residential end use. The exceptions were recorded in near-surface Made Ground in WS1, WS4 and WS6, that contained elevated concentrations of benzo(a)pyrene, benzo(b)fluoranthene and dibenz(ah)anthracene and asbestos at 0.002 % in WS1. WS1 and WS4 were put down in areas of the site beneath the proposed building footprint, whilst WS6 was put down in the south-western corner of the site beneath the proposed car park. TP7 was excavated in the proposed garden area and all test results from this location, and others outside of the building footprint, are below the adopted threshold values. On this basis, no remediation is considered necessary at the site; however, due to the presence of Made Ground across the site, clean imported topsoil should be provided in the all soft-landscaped areas to provide a clean growing medium. During the redevelopment of the site, construction workers are likely to be in direct contact with the near surface soils and appropriate Health and Safety measures will need to be implemented based on the findings of this investigation, particularly in relation to the presence of asbestos in the Made Ground in WS1.
Risk Evaluation: Soil-Gas	Gas protection not considered necessary for the proposed development.
Statutory Consultation	If required to satisfy planning and/or land quality conditions, this report should be submitted to the relevant regulatory bodies for approval before any construction work starts on site.

Geotechnical Assessment	Comments
Site Preparatory Works	Site preparatory works will need to be carried out to facilitate development and are likely to include: • removal of remnant foundations and any other buried obstructions; • diversion and relocation of existing services; • infilling of any voids with suitably compacted granular fill; • reprofiling of site levels to achieve a suitable development platform (the extent of which will depend on agreed levels).
Foundations	This investigation has identified Made Ground exceeding 2.0 m and locally exceeding 3.0 and 6.0 m depth overlying the Soft Bed Flags, comprising weathered soil described as soft or soft to firm clay and loose sand, with sandstone bedrock recorded at relatively shallow depth in the south and east of the site. Groundwater was encountered at depths of 2.8 and 4.0 m begl in WS2 and WS5 during the fieldwork and monitoring installations have typically remained dry throughout the monitoring programme. The proposed development is to comprise a new care home. Based on the ground conditions encountered, the use of traditional spread footings is not considered viable due to the presence of deep Made Ground, buried obstructions and soft clay/loose sand of the Soft Bed Flags and; therefore, it is recommended that consideration is given to an abnormal foundation solution, such as piling. Discussions would need to be held with specialist contractors to determine whether ground improvement is viable and/or the most suitable pile design and the piling scheme. As the load bearing characteristics of piles are dependent upon the type of pile used, method of installation, construction and workmanship, it is recommended that detailed discussions are held with suitably experienced piling contractors prior to finalising design. In any event positive assurances should be sought from the piling contractor in respect of performance and a representative number of piles should be subject to pile loading tests. Further ground investigation comprising deeper boreholes may be required for foundation design purposes.
Floor Slabs	Based on the ground conditions encountered and to comply with current guidance on soil-gas risk, it is recommended that a suspended floor slab design is adopted for the proposed development.
Buried Concrete	A Design Sulphate Class of DS-2 and an ACEC class of AC-2 apply at the site.
Pavement Design	Final road and pavement levels are not known at this stage; however, for preliminary design purposes, a long term CBR value of 2 % should be assumed for Made Ground present at the site (based on average construction conditions). The proposed formation should be proof rolled and caution must be exercised to ensure that any soft/loose areas identified within the formation are excavated and filled with suitably compacted granular fill. Once road alignments and levels have been finalised, in situ CBR tests should be undertaken to allow detailed design of road formations to be made.
Dewatering	The findings of this investigation indicate that significant water ingress is unlikely to occur in temporary excavations; however, any localised seepage should be controllable by sump pumping.
Excavations	Conventional mechanical excavation should be readily achievable through the near-surface Made Ground and weathered Soft Bed Flags; however, heavier plant and/or breaking equipment may be required to break up remnant foundations and other buried obstructions from historical development and to excavate deeper into the sandstone bedrock where present at shallow depth. Shallow excavations should remain stable in the short-term; however, instability may occur in excavations left open for extended periods of time. Support should be provided in any excavations requiring man entry. Care should be taken to limit the exposure of any excavation prepared to receive concrete, which may cause deterioration and a reduction in bearing capacity. Foundation excavations should be inspected by qualified personnel and if any soft or very loose materials are encountered at formation level, foundations would have to be deepened and infilled with lean mix concrete.
Soakaways	Infiltration testing has not been carried out as part of this investigation; however, due to the ground conditions encountered comprising deep Made Ground and very clayey sand/clay Soft Bed Flags, it is considered that the use of soakaway drainage is not considered viable and an alternative drainage solution will need to be adopted.
Additional Work	**Comments**
Various	If required to satisfy planning conditions, this report should be submitted to the Local Authority for approval in advance of any development works starting on site.

The above summary is intended for reference purposes only and specific details should be obtained by reading the entire report.

FOREWORD

This report has been prepared for the sole internal use and reliance of the Client(s) named on the Project Quality Assurance Information Sheet. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Georisk Management Ltd (Georisk). If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report should be read in its entirety, including all associated drawings and appendices. Georisk cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The findings and opinions conveyed in this report are based on information obtained from a variety of sources as detailed within this report and which Georisk believes is reliable. All reasonable care and skill has been applied in examining the information obtained, nevertheless, Georisk cannot and does not guarantee the authenticity or reliability of the information it has relied upon.

The report represents the findings and opinions of experienced geoenvironmental consultants. Georisk does not provide legal advice and the advice of lawyers may also be required.

Any recommendations made or opinions expressed in the Report are based on the exploratory hole records, an examination of samples and the results of the site and laboratory tests. No liability can be accepted for conditions not revealed by the exploratory holes particularly between positions. Whilst every effort is made to ensure accuracy of data supplied any opinion expressed as to the possible configuration of strata between or below investigation locations is for guidance only and no responsibility is accepted as to its accuracy.

Unless otherwise specifically stated, this report assumes that ground levels will not change significantly from those existing at present and that the proposed development will be of two to three storey construction. If this is not to be the case, some modifications to this report may be required.

The groundwater conditions entered on the borehole records and from any monitoring programme are those observed at the time of the investigation. Groundwater levels are susceptible to seasonal fluctuations and may be higher during wetter periods than those encountered during this investigation.

Where the report refers to the potential presence of invasive plant species, such as Japanese Knotweed, or the presence of possible asbestos containing materials, it should be noted that the observations are for information purposes only and should be verified by a suitably qualified expert.

Georisk reserves the right to amend the conclusions and recommendations made in this report in the light of any further or more detailed information that may become available.

GROUND INVESTIGATION

THOMAS STREET, LINDLEY
HUDDERSFIELD, HD3 3JJ

1. INTRODUCTION

1.1 Georisk Management Limited (Georisk) has been instructed by Muller Property Group (Muller) to carry out a ground investigation for the proposed redevelopment of a parcel of land on Thomas Street in Lindley, Huddersfield. The work was carried out in accordance with Georisk's offer letter reference 22052/LO.001/AMG dated 15 February 2022, which was accepted by Muller by email dated 25 February 2022.

1.2 The redevelopment of the site is to comprise construction of a new care home facility and; therefore, the principal aims of this investigation are as follows:

- to carry out Phase I hazard identification and assessment (desk study) including determination of an initial conceptual site model based on '*source-pathway-receptor*' principles;
- to carry out a coal mining risk assessment in accordance with guidance from the Coal Authority;
- to determine the prevalent ground and groundwater conditions at the site;
- to provide an assessment of the concentrations of a range of potential contaminants of concern within the near-surface soils, including Phase II evaluation of risk to human health and environmental receptors;
- to identify any potential geoenvironmental constraints or opportunities associated with the development of the site for the proposed end use;
- to provide general geotechnical design recommendations for the proposed development scheme.

1.3 This report presents the factual data obtained from the programme of fieldwork, monitoring and laboratory testing implemented by Georisk, together with an assessment of the contamination status of the near-surface soils and general engineering considerations for the proposed development scheme.

2. INFORMATION SOURCES

2.1 The information sources used in the production of this report were as follows:

- site walkover to appraise current layout and conditions;
- review of British Geological Survey (BGS) maps and publications;
- review of information contained within environmental databases maintained by the Environment Agency (EA) and other regulatory bodies provided in an Envirocheck report by Landmark Information Group dated March 2022;
- review of information contained in CON29M Coal Mining Report for the site by the Coal Authority reference 51002948789001 dated March 2022;
- information gained with respect to the ground and groundwater conditions established in the programme of fieldwork and monitoring carried out by Georisk;
- appraisal of laboratory data resulting from chemical and geotechnical testing scheduled by Georisk;
- topographical survey of the site by CSL Surveys reference 10915-01 dated February 2022.

3. REFERENCE SOURCES

3.1 This report has been prepared regarding the following sources of reference and guidance, supplemented with experience of similar sites:

- *Investigation of Potentially Contaminated Sites – Code of Practice. British Standards Institute BS10175 (2011+A2:2017);*
- *Code of Practice for Site Investigations. BS5930 (2015+A1:2020);*
- *Human health toxicological assessment of contaminants in soil. Science Report SC050021/SR2 EA (2009);*
- *The LQM/CIEH S4ULs for Human Health Risk Assessment. LQM 2015;*
- *Updated technical background to the CLEA Model. Science Report SC050021/SR3 EA (2009);*
- *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. SP1010 DEFRA/CL:AIRE (2014);*
- *Land Contamination Risk Management. EA (2020);*
- *Guidance on Comparing Soil Contamination Data with a Critical Concentration. CIEH and CL:AIRE (2008);*
- *Guidance for the Safe Development of Housing on Land Affected by Contamination. R & D Publication 66, NHBC, Environment Agency and CIEH (2008);*
- *Concrete in Aggressive Ground. BRE Special Digest 1: Part 1 Assessing the aggressive chemical environment. Building Research Establishment (2005);*
- *Radon: guidance on protective measures for new dwellings. BRE Report BR211 (2015);*
- *Code of practice for design of protective measures for methane and carbon dioxide ground gases for new buildings. BS8485 (2015+A1:2019);*
- *Guidance on Evaluation of Development Proposals on sites where Methane and Carbon Dioxide are Present. NHBC report Edition No. 4 (2007);*
- *Assessing Risks Posed by Hazardous Ground Gases to Buildings. CIRIA Report C665 (2006);*
- *Passive venting of soil gases beneath buildings. DETR/ARUP Environmental PIT Research Report (1997);*
- *Protective measures for housing on gas-contaminated land. BRE/EA Report BR414 (2001);*
- *Site preparation and resistance to moisture. The Building Regulations 2000 Approved Document C (2004 edition);*
- *Specification for Topsoil and Requirements for Use. BS3882 (2015);*
- *NHBC Standards (2017).*

4. THE SITE

4.1 The site is situated to the south of Thomas Street in Lindley, Huddersfield and can be located approximately by National Grid Reference 411650, 418280. The general site layout is shown on Drawing No. 22052/1, entitled '*Exploratory Hole Location Plan'*, included in Appendix A.

4.2 It covers an area of approximately 0.25 hectares and comprises recently cleared land with mature trees along the western boundary and in the north-west and south-west corners. Small areas of dense, overgrown vegetation are present in the north-east corner and approximately half-way along the western boundary. A concrete pad foundation of a former building is adjacent to the northern boundary.

4.3 Topography across the western half of the site is generally level at approximately 211 m AOD. Earth banks separate the eastern and western sides of the site, with the north-east at a level of approximately 210 m AOD and the south-east at approximately 209 m AOD.

4.4 The site is bordered by Thomas Street to the north, Thorncliffe Street to the east and Brian Street to the south, with housing beyond these and bordering the site to the west.

4.5 No evidence of potential significant contamination was noted during the site walkover.

5. SITE HISTORY

5.1 The history of the site and the surrounding area has been assessed by reviewing available historical County Series and Ordnance Survey maps. The maps studied are included in Appendix B of this report and a summary is presented in Table 1.

Year	Site	Surrounding Area
1893	The site comprises back-to-back terraced housing along each boundary, fronting Thomas Street, Thornhill Street (now Thorncliffe Street), Brian Street and a path to the west. Small outbuildings are mapped across the central portion of the site. An alley crosses the centre of the site from east to west.	The site is situated within an area of mixed land use, with housing to the north-east, east, south and south-east. A burial ground is mapped approximately 100 m to the east and an iron works is mapped approximately 100 m to the south. Wool mills are mapped to the south of Brian Street, approximately 40 m to the south-east. Undeveloped land is mapped to the west and south-west.
1907	No significant changes are mapped.	No significant changes are mapped.
1918	No significant changes are mapped.	Further housing is mapped approximately 20 m to the west. A working men's club and bowling green are mapped approximately 70 m to the south-west.
1960-62	No significant changes are mapped.	Further housing is mapped to the west. The former iron works building has been significantly extended and is now labelled 'Mill'. Allotments are mapped approximately 80 m to the south-west.
1962-63	No significant changes are mapped.	No significant changes are mapped.
1975	No significant changes are mapped.	Thorncliffe Works is mapped approximately 50 m to the north. An electricity depot is mapped approximately 120 m to the west.
1977	Housing in the north-west corner of the site is no longer mapped.	No significant changes are mapped.
1981	The site has been cleared and comprises vacant land.	A works is mapped approximately 60 m to the south-east.
1993	The site has been redeveloped with construction of a children's home with car park mapped in the south-west and open space in the north-east, south-east and south-west corners.	The wool mills to the south-east of the site have been replaced by housing.
1996	No significant changes are mapped.	No significant changes are mapped.
2000	No significant changes are mapped.	No significant changes are mapped.
2006	No significant changes are mapped.	The electricity depot is no longer mapped.
2021	The site has been cleared and comprises vacant land.	No significant changes are mapped.

Table 1: Summary of Historical Land Usage

6. GEOENVIRONMENTAL SETTING

6.1 Geology and Mining

Geology

6.1.1 The geology of the site has been appraised from 1:50,000 digital mapping information published by the BGS and is shown to comprise the Soft Bed Flags (sandstone) of the Pennine Lower Coal Measures Formation of Carboniferous age.

6.1.2 No superficial/drift deposits are mapped beneath the site.

6.1.3 The presence of Made Ground associated with two stages of historical built development should also be anticipated.

Mining

6.1.4 Reference has been made to the Coal Authority Interactive Map Viewer; this indicates the site is located within a '*Coal Mining Reporting Area'* but outside of a '*Development High Risk Area*'. A CON29M Non-Residential Coal Authority Mining Report has been obtained from The Coal Authority, reference 51002948989001. The report is presented in full in Appendix C and summarised below.

6.1.5 The Coal Authority report that the site is not within a surface area that could be affected by past underground mining.

6.1.6 The Coal Authority report that the site is not within a surface area that could be affected by present underground mining.

6.1.7 The Coal Authority report that there are no known coal mine entries within, or within 20 metres of, the site.

6.1.8 The Coal Authority report that the site is not within the boundary of an opencast site from which coal has been removed by opencast methods.

6.1.9 The Coal Authority report that the site does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

6.1.10 The Coal Authority has no records of any mine gas emission requiring action within the boundary of the site.

6.1.11 The Coal Authority indicates that the site is not in an area for which a licence has been granted to remove coal using underground methods.

6.1.12 The Coal Authority is not aware of any damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

6.1.13 The site has not been subject to remedial works by, or on behalf of, the Coal Authority under its Emergency Surface Hazard Call Out procedures.

6.1.14 The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 m of the enquiry boundary, since 31 October 1994.

6.1.15 The Coal Authority state that the site is not in an area where a notice to withdraw support has been given.

6.1.16 Based on the information presented above, Table 2 summarises the potential risks associated with coal mining at the site:

Potential Coal Mining Issue	Potential Issue?		Risk Assessment
	Yes	No	
Underground coal mining (recorded at shallow depths)		No	n/a
Underground coal mining (probable at shallow depths)		No	n/a
Mine entries (shafts and adits)		No	n/a
Coal mining geology (fissures)		No	n/a
Record of past mine gas emissions		No	n/a
Recorded coal mining surface hazard		No	n/a
Surface mining (opencast workings)		No	n/a

Table 2: Coal Mining Risk Assessment

6.1.17 Based on the information provided by the Coal Authority, it is considered that the proposed development of the site will not be affected by past coal mining activities and no further action is considered necessary.

6.2 Hydrology

6.2.1 There are no surface watercourses (rivers/streams) mapped within 250 m of the site.

6.2.2 The EA has no records of any licensed surface water abstractions within 250 m of the site.

6.2.3 The EA has no records of any active licensed discharge consents within 250 m of the site.

6.2.4 Based on current information provided by the EA and included within the Landmark Envirocheck report, the site is not in an area likely to be at risk from river flooding.

6.3 Hydrogeology

6.3.1 The Soft Bed Flags is classified by the EA as a '*Secondary – A*' aquifer, which are defined as '*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'.*

6.3.2 The EA has no records of any licensed groundwater abstractions within 250 m of the site

6.3.3 The site is not mapped by the EA within a groundwater Source Protection Zone.

6.4 Waste Management

6.4.1 The EA has no records of any active licensed waste management facilities (landfills) within 250 m of the site.

6.4.2 The EA and Local Authority (LA) have records of 1 No. historical landfill site within 250 m of the site, details of which can be summarised as follows:

- Birchencliffe Tip was located approximately 180 m to the north-west and was licensed between 1961 and 1974 to accept waste including industrial, commercial and household waste.

6.5 Pollution

6.5.1 The EA has no records of any recent and significant/major pollution incidents to controlled waters within 250 m of the site.

6.5.2 The Envirocheck Report does not identify any sites within 250 m of the study area that are potential pollution hazards or potential sources of industrial pollution and regulated under the EC Integrated Pollution Prevention and Control Directive (IPPC).

6.6 Radon

6.6.1 Information provided by the BGS and contained in the Envirocheck Report indicates that radon protection measures are not required for the proposed development at the site.

6.7 Supporting Information

6.7.1 The Landmark Envirocheck supporting information is included in Appendix H.

7. INITIAL CONCEPTUAL SITE MODEL

7.1 Environmental Setting

7.1.1 Based on the findings of the Phase I Desk Study presented in Sections 4 to 6 of this report, the environmental setting of the site can be summarised as follows:

- the site is situated to the south of Thomas Street in Lindley, Huddersfield and can be located approximately by National Grid Reference 411650, 418280;
- it covers an area of approximately 0.25 hectares and comprises recently cleared land with mature trees along the western boundary and in the north-west and south-west corners. Small areas of dense, overgrown vegetation in the north-east corner and approximately half-way along the western boundary. A concrete pad foundation of a former building is adjacent to the northern boundary;
- topography across the western half of the site is generally level at approximately 211 m AOD. Earth banks separate the eastern and western sides of the site, with the north-east at a level of approximately 210 m AOD and the south-east at approximately 209 m AOD;
- the site is bordered by Thomas Street to the north, Thorncliffe Street to the east and Brian Street to the south, with housing beyond these and bordering the site to the west;
- no evidence of potential significant contamination was noted during the site walkover;
- historical maps indicate that the site comprised back-to-back terraced housing from at least 1893 until 1977. A children's home was built between 1981 and 1993, which has been demolished recently and remained vacant since;
- the surrounding area comprised mixed undeveloped land and housing with increasing housing throughout the 20th century. Nearby historical industrial uses have included various works and mills;
- the geology beneath the site is anticipated to comprise Made Ground overlying the Soft Bed Flags (sandstone) of the Pennine Lower Coal Measures Formation of Carboniferous age;
- the site is not in an area affected by past shallow coal mining activities;
- there are no surface watercourses (rivers/streams) mapped within 250 m of the site;
- the EA has no records of any licensed surface water abstractions within 250 m of the site;
- the EA has no records of any active licensed discharge consents within 250 m of the site;
- the EA indicate the site is not in an area likely to be affected by river flooding;
- the Soft Bed Flags is classified by the EA as a *'Secondary – A'* aquifer;
- the EA has no records of any licensed groundwater abstractions within 250 m of the site;
- it is not mapped by the EA within a groundwater Source Protection Zone;

- the EA has no records of any active licensed waste management facilities (landfills) within 250 m of the site;
- the EA and Local Authority (LA) have records of 1 No. historical landfill site within 250 m of the site: Birchencliffe Tip was located approximately 180 m to the north-west and was licensed between 1961 and 1974 to accept waste including industrial, commercial and household waste;
- the EA has records of no records of any recent and significant/major pollution incidents to controlled waters within 250 m of the site;
- the Envirocheck Report does not identify any sites within 250 m of the study area that are potential pollution hazards or potential sources of industrial pollution and regulated under the EC Integrated Pollution Prevention and Control Directive (IPPC);
- radon protection measures are not required for the proposed development at the site.

7.2 Initial Conceptual Site Model and Preliminary Risk Assessment

General

7.2.1 The initial conceptual model and preliminary risk assessment are based on information derived from the desk study to provide a qualitative assessment of risk posed to human health and environmental receptors from potential on and off-site sources of contamination as defined within Part IIA of the Environmental Protection Act (1990). For a significant risk to exist, it must be established that contamination has the potential to cause harm to susceptible receptors. This is known as '*pollutant linkage*' and requires three criteria to be identified at a significant level:

- the presence of substances that may cause harm (SOURCE);
- the presence of a receptor which may be harmed (RECEPTOR);
- the existence of a plausible pollutant linkage between the source and the target (PATHWAY).

7.2.2 EA R&D66 (2008) includes a risk classification system based on classification of consequence and probability. Table 3 shows a risk matrix, in which the likelihood or probability of each pollutant linkage being realised is ranked against the severity of the consequences. The result is the risk classification, based upon which risk management actions can be implemented. The individual sources, pathways and receptors identified are assessed against this risk matrix; potential pollutant linkages and associated risks are recorded.

		Severity of Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability of pollutant linkage	**High Likelihood**	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low Likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Table 3: Risk Matrix

7.2.3 Definitions of risk terminology are as follows.

7.2.4 **Very high risk:** there is a probability that severe harm could arise to a designated receptor from an identified source, or there is evidence that severe harm to a designated receptor is currently occurring.

7.2.5 **High risk:** harm is likely to arise to a designated receptor from an identified source.

7.2.6 **Moderate risk:** it is possible that harm could arise to a designated receptor from an identified source. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.

7.2.7 **Low risk:** it is possible that harm could arise to a designated receptor from an identified source, but it is likely that this harm, if realised, would at worst normally be mild.

7.2.8 **Very low risk:** there is a low possibility that harm could arise to the receptor. In the event of such harm being realised it is not likely to be severe.

7.2.9 Professional judgement and experience has been used to estimate the combination of probability and consequence of the harm posed by the pollutant linkages identified. This allows the risk to be evaluated on a qualitative basis. The risk category is used to prioritise/target the site investigation. Using this matrix and the available screening limits it has been possible to carry out a semi-quantitative risk assessment for the sources, pathways and receptors which have been identified at the site.

7.2.10 The initial conceptual model also illustrates the contaminants of concern identified from the contamination assessment and demonstrates the potential pathways and receptors which are considered likely to exist at the site.

7.2.11 Risk is based on a consideration of both:

- the likelihood of an event (probability); and
- the severity of the potential consequences.

7.2.12 A pollutant linkage must be established before tests for probability and consequence are applied. If there is no pollutant linkage then there is no potential risk and there is no need to apply tests for probability and consequence. The risk assessment needs to include a logical and transparent system to define categories of severity of consequence and probability of occurrence. The initial conceptual model and preliminary risk assessment are discussed below.

Proposed Development

7.2.13 The redevelopment at the site is to comprise construction of a new care home facility with soft landscaped amenity areas.

Potential On-Site Sources of Contamination

7.2.14 Based on information derived from the Phase I Desk Study, previous land usage at the site is not considered to be potentially contaminative and; therefore, the following potential significant on-site sources of contamination have been identified that could affect the proposed development of the site:

- Made Ground associated with former built development (housing and children's home) at the site;
- hazardous soil-gases derived from any on-site Made Ground - Made Ground with a low degradable content is classified in CIRIA 152 as having a 'very low' soil-gas generation potential and 'very low' risk to on-site built development.

Potential Off-Site Sources of Contamination

7.2.15 Based on information derived from the Phase I Desk Study, the following potential significant off-site sources of contamination have been identified that could affect the proposed development of the site:

- migration of hazardous soil-gases derived from former landfill located approximately 180 m to the north-west. The nature of any landfill material is unknown but may possibly be potentially hazardous soil-gas generating. Soil-gas (methane and carbon dioxide) production begins as soon as infill materials have been deposited, but anaerobic methane production only occurs when all available oxygen has been absorbed. Peak soil-gas production generally occurs about a year after deposit and thereafter gradually declines. Significant gas production is generally completed within about 20 years of deposition. Where gas production is slow, the period of significant gas production may extend for up to 40 years. As this landfill closed over 40 years ago, it is considered unlikely that significant levels of soil-gas are still being generated and the level of risk to the proposed development is considered to be very low/negligible.

Receptors

7.2.16 The following site-specific receptors are potentially feasible:

- site workers – construction personnel involved in development works;
- long term site users – care home residents and workers (adults);
- building fabric and foundations;
- controlled waters – the Soft Bed Flags classified by the EA as a *'Secondary – A'* aquifer.

Pathways

7.2.17 The potential pathways that are considered relevant to this site are as follows:

- direct contact with and/or incidental ingestion of any contaminated soils or dusts derived from contaminated soil;
- inhalation of dust derived from any contaminated soil;
- migration of hazardous soil-gases via permeable strata or via ducts/drains into confined spaces;
- direct contact between contaminated soils and building substructures;
- vertical/lateral migration of mobile contaminants into controlled water receptors.

Pollutant Linkages

7.2.18 Based on the '*source-pathway-receptor*' information presented above, the following potential pollutant linkages have been identified at the site:

Source	Pathway	Target	Consequence	Probability	Risk
Possible contamination within near-surface Made Ground Migration of hazardous soil-gases derived from on-site Made Ground	Dermal contact	Site user: care home residents and workers (adults)	Mild	Low	Low
		Site construction worker	Mild	Likely	Moderate/low
	Ingestion	Site user: care home residents and workers (adults)	Mild	Low	Low
		Site construction worker	Mild	Likely	Moderate/low
	Dermal contact with dust derived from contaminated soil	Site user: care home residents and workers (adults)	Mild	Low	Low
		Site construction worker	Mild	Likely	Moderate/low
	Ingestion of dust derived from contaminated soil	Site user: care home residents and workers (adults)	Mild	Low	Low
		Site construction worker	Mild	Likely	Moderate/low
	Inhalation of dust derived from contaminated soil	Site user: care home residents and workers (adults)	Mild	Low	Low
		Site construction worker	Mild	Likely	Moderate/low
	Migration of hazardous ground gas into structures	Site user: care home residents and workers (adults)	Mild	Low	Low
	Direct contact	Buildings	Mild	Low	Low
	Direct contact	Water supply pipework	Minor	Likely	Low
	Contaminant migration	Controlled waters	Minor	Unlikely	Very low

Table 4: Pollutant Linkages

7.2.19 Based on the known previous land usage of the site and surrounding area, the identified pollutant linkages and geological setting, it is considered that the site represents a **very low** risk to controlled waters. No further assessment of risk to controlled waters in the form of either groundwater testing or leachability testing is considered necessary unless significant contamination is identified at the site.

7.2.20 Based on the proposed end use of the site, the site is considered to represent a **low to moderate/low** risk to human health, which should be assessed through a programme of routine chemical testing, soil-gas monitoring and risk assessment in accordance with current guidance (CLEA).

Contaminants of Concern

7.2.21 The following potential contaminants are considered appropriate for the assessment of this site:

- selected toxic and phytotoxic metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc);
- speciated polyaromatic hydrocarbons (PAH);
- pH;
- cyanide;
- phenol;
- sulphate;
- asbestos.

7.3 Investigation Strategy

7.3.1 Based on the information presented above, the strategy for the proposed ground investigation is shown in Table 5.

Exploratory Holes	Purpose
All exploratory holes: dynamic percussive boreholes and trial pits	To determine prevalent ground and groundwater conditions across site, including: • nature and extent of any Made Ground; • nature and extent of any soil contamination; • suitability of the ground for foundations and pavement design.
All dynamic percussive boreholes	Undertake in situ Standard Penetration Tests (SPT) to determine a geotechnical strength profile.
Selected dynamic percussive boreholes: WS2 and WS4	Construction of soil-gas and groundwater monitoring installations to facilitate assessment of risk posed by any hazardous soil-gases and establish standing water levels.

Table 5: Investigation Strategy

8. FIELDWORK, MONITORING AND LABORATORY TESTING

8.1 Fieldwork

8.1.1 The fieldwork was carried out on 23 and 24 March 2022 and comprised the following elements:

- 7 No. trial pits, designated TP1 to TP7, excavated by JCB 3CX to a maximum depth of 3.4 m below existing ground level (begl);
- 6 No. dynamic percussive sampling boreholes, designated WS1 to WS6, formed to a maximum depth of 6.45 m begl;
- in-situ Standard Penetration Tests (SPT) in WS1 to WS6;
- construction of 50 mm diameter combined soil-gas and groundwater monitoring wells in WS2 and WS4.

8.1.2 The positions of the exploratory holes were set out by Georisk and the locations are shown on the Exploratory Hole Location Plan included as Drawing No. 22052/1 in Appendix A.

8.1.3 The fieldwork was supervised by Georisk. All soil description and sample logging was carried out in general accordance with BS 5930 (2015+A1:2020) and the exploratory hole records are presented in Appendix D. Photographic records of trial pits are also presented in Appendix D.

8.1.4 Small disturbed samples were recovered from the exploratory holes as necessary to facilitate sample description and for subsequent laboratory testing.

8.1.5 Observations of groundwater encountered during the fieldwork are included on the relevant exploratory hole records included in Appendix D.

8.2 Soil-Gas and Groundwater Monitoring

8.2.1 Combined soil-gas and groundwater monitoring installations were constructed in WS2 and WS4 as shown on the borehole records included in Appendix D. The monitoring well response zones were placed below 1 m depth to allow construction of a bentonite seal and concrete surround to surface cover, which is standard industry practice and in accordance with current guidance. The response zone in WS2 covered natural soil and the response zone in WS4 covered 2.8 m of Made Ground and; therefore, the potential significant sources of soil-gas are covered by the monitoring wells.

8.2.2 Monitoring has been carried out on four occasions between 30 March and 12 May 2022 with the following measurements being taken in sequence:

- atmospheric pressure (mb);
- relative pressure (mb);
- flow monitoring (l/hr);
- measurement of CO_2, CH_4 and O_2 gas concentrations (% by volume; % v/v);
- groundwater level (m begl).

8.2.3 The site is small covering an area of 0.25 ha and will be developed with construction of a single building and; therefore, the installation of two soil-gas monitoring is considered sufficient to fully characterise the site.

8.2.3 The only plausible source of soil-gas identified that could affect the proposed development was on-site Made Ground. This type of Made Ground with low degradable content is classified in CIRIA 152 as having a 'very low' soil-gas generation potential and 'very low' risk to on-site development and; therefore, we believe the monitoring carried out is sufficient to fully characterise the soil-gas regime at the site.

8.2.4 The results of the soil-gas and groundwater monitoring programme are presented in Appendix E.

8.3 Chemical Testing

8.3.1 A programme of chemical testing was scheduled by Georisk on selected soil samples retrieved from the exploratory holes. The testing was carried out at an independent UKAS accredited laboratory for the contaminants of concern as indicated in Section 7. The chemical test results are presented in Appendix F.

8.4 Geotechnical Testing

8.4.1 Routine geotechnical testing comprising moisture content and Atterberg Limits was carried out on selected samples. The testing was carried out in accordance with BS1377 (1990) at an independent UKAS accredited laboratory and the results are presented in Appendix G.

9. GROUND AND GROUNDWATER CONDITIONS

9.1 General

9.1.1 Full details of the ground conditions encountered by Georisk are presented on the exploratory hole records included in Appendix D.

9.2 Made Ground

9.2.1 Made Ground was encountered across the site to depths of generally between 1.0 and 3.0 m begl, with deeper Made Ground recorded in TP2, TP5 and WS3 that is in excess of 3.0 m thick and, in places, over 6.0 m thick. Buried brick walls, likely forming historical basements, were encountered in TP1, TP5 and TP7, as shown on the photographic records included in Appendix D. In TP5, the walls on the northern and western sides of the trial pit extended beyond the depth excavated.

9.2.2 The Made Ground was variable and typically comprised dark brown gravelly sand or light brown sandy gravel overlying sandy gravel and cobble or soft to firm sandy gravelly clay. The gravel and cobble content comprised quartzite, gravel, sandstone, coal, brick, concrete, plastic and metal.

9.2.3 The results of 13 No. Standard Penetration Tests (SPT) carried out in the Made Ground at depths of between 1.0 and 5.7 m begl returned 'N' values of between 2 and 14, which are summarised in Table 6.

Depth (m begl)	Minimum SPT 'N' value	Maximum SPT 'N' value	Material Description
1.0	2	12	MADE GROUND: Loose and medium dense sand/firm clay
2.0	6	7	MADE GROUND: Loose sand/soft to firm clay
3.0-3.9	8	-	MADE GROUND: Soft to firm clay
4.35-4.8	7	10	MADE GROUND: Soft to firm clay
5.25-5.7	10	14	MADE GROUND: Soft to firm clay

Table 6: Summary of SPT 'N' Values in the Made Ground

9.2.4 Two samples of Made Ground were scheduled for Atterberg Limit determinations and natural moisture content testing. The test results are included in Appendix G together with a summary in Table 7.

Test	Minimum (%)	Maximum (%)
Liquid Limit	35	39
Plastic Limit	21	23
Plasticity Index	14	16
Modified Plasticity Index	7	12
Moisture Content	17	24
Plasticity	Medium	-
Volume Change Potential	Non-shrinkable	Low

Table 7: Summary of Atterberg Limit Tests on the Made Ground

9.3 Soft Bed Flags

9.3.1 The Soft Bed Flags was encountered beneath the Made Ground. It generally comprised weathered soil described as soft or soft to firm sandy gravelly clay and loose or medium dense orangish brown, brown and light grey gravelly sand. Light greyish brown or brown sandstone was encountered at 1.35 m begl in TP7 and 4.9 m begl in WS2, with drilling refusals at 3.0 m begl in WS1 and WS4 and 1.5 m begl in WS6 on possible bedrock.

9.3.2 The results of 16 No. SPT carried out in the Soft Bed Flags at depths of between 1.0 and 6.45 m begl returned 'N' values of between 2 and 50, which are summarised in Table 8.

Depth (m begl)	Minimum SPT 'N' value	Maximum SPT 'N' value	Material Description
1.0	2	16	Loose and medium dense sand/soft CLAY
1.5	50	-	Possible SANDSTONE
2.0	3	8	Soft to firm CLAY
3.0	6	50	Soft to firm CLAY/SANDSTONE/very dense SAND
4.0	4	-	SANDSTONE/soft CLAY
4.45	50	-	SANDSTONE
5.0	6	-	Loose SAND
6.0	6	-	Loose SAND
6.45	14	-	Medium dense SAND

Table 8: Summary of SPT 'N' Values in the Soft Bed Flags

9.3.3 Five samples of the Soft Bed Flags were scheduled for Atterberg Limit determinations and natural moisture content testing. The test results are included in Appendix G together with a summary in Table 9.

Test	Minimum (%)	Maximum (%)
Liquid Limit	33	56
Plastic Limit	20	44
Plasticity Index	12	21
Modified Plasticity Index	7	21
Moisture Content	14	37
Plasticity	Low	High
Volume Change Potential	Non-shrinkable	Medium

Table 9: Summary of Atterberg Limit Tests on the Soft Bed Flags

9.4 Evidence of Potential Contamination

9.4.1 No visual/olfactory evidence of potential significant contamination was recorded during the fieldwork.

9.5 Groundwater

9.5.1 During the fieldwork, groundwater was encountered at a depth of 2.8 m begl in WS2 and 4.0 m begl in WS5. All other exploratory hole locations remained dry.

9.5.2 Groundwater monitoring standpipes were installed in WS2 and WS4 as shown on the borehole records included in Appendix D which have been monitored on four occasions between 30 March and 12 May 2022. Groundwater was recorded at approximately 2.9 m begl in WS2 during the first monitoring visit. The installations have both remained dry throughout the remainder of the monitoring programme.

9.6 Development of Conceptual Site Model

9.6.1 Based on the ground and groundwater conditions revealed by the geoenvironmental investigation carried out and detailed above, the initial conceptual site model described in Section 7 is considered to be representative of the actual site conditions in relation to the proposed development.

9.6.2 No organic or degradable content was recorded in the Made Ground and; therefore, organic matter testing was not considered necessary. In the human health risk assessment, we have adopted the most conservative organic matter content (1 %) when choosing guideline values.

9.6.3 No significant risk to controlled waters was identified in the Phase I Desk Study and no significant contamination was identified in the ground investigation. On this basis, no further assessment of risk to controlled waters is considered necessary – leachability testing on soil samples is primarily used to assess risk to controlled waters and is not considered necessary.

10. SOIL-GAS RISK ASSESSMENT

10.1 Risk Assessment Protocol

10.1.1 Current best practice for the assessment of soil-gas risk to new built development is given in CIRIA Report C665 *'Assessing Risks Posed by Hazardous Ground Gases to Buildings'* (2007) and BS8485 (2015+A1:2019) '*Code of practice for the characterization and remediation from ground gas in affected developments*'.

10.1.2 C665 sets out a semi-quantitative procedure to estimate gas risk, which was proposed by Wilson & Card (1999) and is a development of a procedure given in CIRIA 149 (1995). This method also uses both gas concentrations and borehole flow rates to define a Characteristic Situation for a site based on the limiting gas volume flow for methane and carbon dioxide. For a given Characteristic Situation, a set of remedial measures can be applied to the development.

10.2 Monitoring Results

10.2.1 Soil-gas monitoring installations were constructed in WS2 and WS4 as shown on the borehole records included in Appendix D and monitoring has been carried out on four occasions between 30 March and 12 May 2022. The results of the soil-gas monitoring are presented in Appendix E and are summarised in Table 10 (in terms of maximum methane and steady carbon dioxide concentrations recorded).

Well	Methane Concentrations (% v/v)	Carbon Dioxide Concentrations (% v/v)	Positive Flow Rates (l/hr)	Methane Gas Screening Value (GSV) (l/hr)	Carbon Dioxide Gas Screening Value (GSV) (l/hr)
WS2	0.0	0.2	0.0	n/a	0.0001
WS4	0.0	0.5 – 1.4	0.0	n/a	0.0007

Table 10: Summary of Soil-Gas Monitoring Results

10.2.2 No methane has been recorded during the monitoring programme.

10.2.3 Steady state carbon dioxide levels have ranged from 0.2 to 1.4 % by volume (% v/v) during the monitoring programme.

10.2.4 No positive gas flow was recorded and ambient atmospheric pressures have ranged from 983 to 1003 mb.

10.3 Preliminary Risk Assessment and Protection Strategy

10.3.1 For a 'Characteristic Situation 1' (CS1), the 'Typical Maximum Concentrations' for methane (1 % v/v) and carbon dioxide (5 % v/v) have not been exceeded.

10.3.2 To provide a further detailed level of assessment, Gas Screening Values (GSV) have also been determined (see Table 10). The GSV is calculated by multiplying the maximum gas concentration recorded in a particular borehole and the maximum borehole flow rate recorded across the site and is then used to determine the level of gas protection necessary to protect future users of the proposed development. Where no positive gas flow has been recorded within boreholes, a default value of 0.05 l/hr based on the detection limit of the monitoring equipment used has been assumed to calculate a GSV.

10.3.3 From the monitoring results for carbon dioxide, a maximum GSV of 0.0007 l/hr has been calculated, which is below the 'Characteristic Situation 1' GSV of 0.07 l/hr.

10.3.4 This ground investigation has identified Made Ground to varying depths of between 0.2 and in excess of 3.0 m begl which did not contain a significant organic or deleterious content that could give rise to hazardous soil-gas generation and; therefore, the Made Ground is considered to be very low risk in terms of potential soil-gas generation.

10.3.5 As the soil-gas monitoring results are indicative of a 'Characteristic Situation 1' classification and in view of the prevalent ground conditions at the site, gas protection measures are not considered necessary for the proposed development.

10.3.6 Radon protection is not required for the proposed development at the site.

10.3.7 In our opinion, no further monitoring is necessary; however, if required to satisfy planning or land quality conditions, this recommendation should be agreed with the Local Authority and/or warranty provider in advance of development works starting on site that would lead to the removal of the borehole installations.

11. HUMAN HEALTH RISK ASSESSMENT

11.1 General

11.1.1 The UK approach to the assessment of contaminated land is based upon the principles of risk assessment, which is founded on the use of '*source-pathway-receptor'* principles to establish the potential presence of '*pollutant linkage'*. The main legislative driver for dealing with historical land affected by contamination is Part 2A of the Environmental Protection Act 1990. Under Part 2A, land is contaminated if it is determined that there is a '*Significant Possibility of Significant Harm*' (SPOSH) to human health.

11.1.2 Georisk adopts a tiered approach to risk assessment in accordance with current UK guidance and good practice. The initial step of this process, known as Tier 1, is the comparison of site-derived data with relevant guideline levels.

11.1.3 Should the adopted criteria be exceeded then two courses of action are available. The first is to break the pollutant linkage by undertaking remedial works such as removing or treating the contaminated soil. Alternatively, a more detailed risk assessment can be carried out to determine whether a contamination risk exists.

11.1.4 The UK approach to the assessment of human health risk from contaminated land is set out in the CLEA (Contaminated Land Exposure Assessment) framework, which was first published in 2002 by the Department for Environment, Food and Rural Affairs (DEFRA) and the EA. The original guidance was withdrawn and revised guidance issued in 2009, which is set out in the following documents published by the EA:

- *Human health toxicological assessment of contaminants in soil*. Science Report SC050021/SR2;
- *Updated technical background to the CLEA Model*. Science Report SC050021/SR3.

11.1.5 The CLEA model uses generic assumptions about the fate and transport of chemicals in the environment and a generic conceptual model for site conditions together with human behaviour to estimate long term human exposure to soil contaminants.

11.1.6 Soil Guideline Values (SGV) were derived using the CLEA Model by comparing estimated exposure with 'Health Criteria Values' (HCV) that represent a tolerable risk to health from chronic exposure. SGVs are scientifically based 'generic assessment criteria' that can be used to simplify the assessment of risk to human health from chronic exposure to contaminants in soil. SGVs are a screening tool for the 'generic quantitative risk assessment' of land contamination.

11.1.7 Since revised SGVs were developed in 2009, revised Part 2A statutory guidance was then published in 2012. The revised Part 2A statutory guidance introduces a four-category system for classifying land under Part 2A for cases of SPOSH to human health. Category 4 applies to land where the level of risk posed is acceptably low. DEFRA appointed CL:AIRE to develop '*Category 4 Screening Levels*' (C4SL), which would provide a simple test for deciding when land is suitable for use and definitely not contaminated. In March 2014, C4SLs were published for a limited number of contaminants.

11.1.8 Further to this, Suitable for Use Levels (S4UL) published by the Chartered Institute of Environmental Health (CIEH) and Land Quality Management (LQM) were issued in January 2015. These provide a comprehensive update of previous GAC published by CIEH. The S4UL are derived from the CLEA software produced by the EA and are based upon the concept of either 'tolerable' risk (where the relevant health criteria value is a tolerable daily intake), or 'minimal' risk (where the health criteria is an index dose).

11.1.9 The following hierarchy has been adopted by Georisk for determining which assessment criteria to be followed:

- Suitable 4 Use Levels (S4UL) developed by LQM/CIEH (2015);
- C4SL (in the absence of other assessment criteria);
- Soil Screening Values developed by Atkins ATRISKsoil (in the absence of other assessment criteria).

11.2 Human Health Risk Assessment Design

Proposed Development

11.2.1 The development at the site is to comprise construction of a new care home with soft landscaped amenity areas.

Assessment Criteria

11.2.2 The assessment criteria used for the screening of contaminants is summarised in Table 11.

Contaminant Group	Determinands	Assessment Criteria Selected
ORGANIC CONTAMINANTS		
Non-halogenated hydrocarbons	Phenol	LQM/CIEH S4UL
Polyaromatic Hydrocarbons (PAH)	USEPA 16 priority compounds	LQM/CIEH S4UL

INORGANIC CONTAMINANTS		
Metals	Lead	C4SL
	Arsenic, Cadmium, Chromium, Copper, Mercury, Nickel, Selenium, Zinc	LQM/CIEH S4UL
Non-metals	Cyanide	Atkins AtRisk Soil Screening Value (SSV)

Table 11: Human Health Risk Assessment Criteria

11.2.3 It should be noted that there is no S4UL for lead and that the SGV for lead has been withdrawn. As such, the only available authoritative published criteria for lead is the DEFRA C4SL. The C4SL for lead is considerably more conservative than the former SGV and is therefore considered appropriate for use.

End Use

11.2.4 In view of the proposed development, a 'residential – without homegrown produce' with 1 % organic matter content end use conceptual model is considered appropriate for the site – this represents the most conservative approach in relation to the proposed development.

Statistical Analysis

11.2.5 In view of the relatively small data set and previous use of the site, it is considered appropriate to assess contaminant levels by comparing test results with the relevant S4UL, C4SL or SSV rather than carrying out statistical analysis.

Contaminants of Concern

11.2.6 The potential contaminants of concern are detailed in Section 7 and these contaminants have subsequently been targeted for chemical analysis.

11.3 Generic Quantitative Human Health Risk Assessment

11.3.1 The results of the chemical testing from the site can be summarised in Table 12.

Contaminant of Concern	Measured Concentration*		Critical Concentration (S4UL/C4SL/SSV*)	Number of test results above S4UL/C4SL/SSV
	Min	Max		
Arsenic	6.3	25	40	0 (6)
Cadmium	0.19	2.2	85	0 (6)
Chromium	9.9	76	910	0 (6)
Copper	14	77	7100	0 (6)
Cyanide	<0.5	-	34	0 (6)
Lead	75	360	310	0 (6)
Mercury	<0.1	1.0	56	0 (6)
Nickel	6.0	42	180	0 (6)
Phenol	<0.1	-	280	0 (6)
Selenium	<0.2	-	430	0 (6)
Zinc	68	210	40000	0 (6)

PAH Compounds				
Acenaphthene	<0.1	1.8	3000	0 (6)
Acenaphthylene	<0.1	0.41	2900	0 (6)
Anthracene	<0.1	1.9	31000	0 (6)
Benzo(a)anthracene	<0.1	5.1	11	0 (6)
Benzo(a)pyrene	<0.1	5.0	3.2	**1 (6)**
Benzo(b)fluoranthene	<0.1	5.6	3.9	**1 (6)**
Benzo(ghi)perylene	<0.1	2.4	360	0 (6)
Benzo(k)fluoranthene	<0.1	2.8	110	0 (6)
Chrysene	<0.1	7.2	30	0 (6)
Dibenz(ah)anthracene	<0.1	1.1	0.31	**3 (6)**
Fluoranthene	0.24	11	1500	0 (6)
Fluorene	<0.1	1.6	2800	0 (6)
Indeno(123-cd)pyrene	<0.1	2.6	45	0 (6)
Naphthalene	<0.1	4.7	2.3	0 (6)
Phenanthrene	<0.1	9.4	1300	0 (6)
Pyrene	0.34	11	3700	0 (6)
* Concentration expressed in mg/kg except where stated. Assumption of 1 % soil organic matter.				

Table 12: Summary of Chemical Test Results

11.3.2 The majority of the test results for the contaminants of concern are below the relevant assessment criteria (S4UL/C4SL/SSV); however, the following results exceed the relevant assessment criteria in Made Ground:

- WS1 at 0.5 m begl: dibenz(ah)anthracene (0.37 mg/kg);
- WS4 at 0.5 m begl: benzo(a)pyrene (5.0 mg/kg), benzo(b)fluoranthene (5.6 mg/kg) and dibenz(ah)anthracene (1.1 mg/kg);
- WS6 at 0.2 m begl: dibenz(ah)anthracene (0.37 mg/kg).

Asbestos

11.3.3 All samples tested were also screened for the presence of asbestos and chrysotile fibres/clumps were identified in Made Ground from WS1 at 0.5 m begl. Subsequent quantification of the asbestos content revealed 0.002 % by weight of asbestos.

12. RISK EVALUATION AND REMEDIAL ACTION PLAN

12.1 Risk Evaluation

12.1.1 Following risk assessment utilising data obtained from the intrusive investigation, the following remaining pollutant linkages have been identified as being of concern in terms of the redevelopment of the site:

Source	Pathway	Target
Presence of asbestos and elevated levels of PAH in near-surface Made Ground	Dermal contact	Site user: female child 0-6 years
		Site construction worker
	Ingestion	Site user: female child 0-6 years
		Site construction worker
	Dermal contact with dust derived from Made Ground	Site user: female child 0-6 years
	Ingestion of dust derived from Made Ground	Site user: female child 0-6 years
		Site construction worker
	Inhalation of dust derived from Made Ground	Site user: female child 0-6 years
		Site construction worker
	Direct contact	Buildings
	Direct contact	Water supply pipework
	Migration of mobile contaminants	Controlled waters

Table 13: Remaining Pollutant Linkages

12.2 Remedial Action Plan – Human Health

12.2.1 The site is to be redeveloped with construction of a new care home with soft landscaped amenity areas. Future site users should be considered as targets by physical contact, ingestion and dust inhalation associated with potentially contaminated Made Ground beneath soft landscaping.

12.2.2 The majority of test results are below the adopted assessment criteria for the proposed residential end use. The exceptions were recorded in near-surface Made Ground in WS1, WS4 and WS6, that contained elevated concentrations of benzo(a)pyrene, benzo(b)fluoranthene and dibenz(ah)anthracene and asbestos at 0.002 % in WS1.

12.2.3 WS1 and WS4 were put down in areas of the site beneath the proposed building footprint, whilst WS6 was put down in the south-western corner of the site beneath the proposed car park. TP7 was excavated in the proposed garden area and all test results from this location, and others outside of the building footprint, are below the adopted threshold values.

12.2.4 On this basis, no remediation is considered necessary at the site; however, due to the presence of Made Ground across the site, clean imported topsoil should be provided in the all soft-landscaped areas to provide a clean growing medium.

12.2.5 The Made Ground represents no plausible pollutant linkage beneath the building or hardstanding. Any Made Ground that is taken off site would need to be taken to a suitably licensed tip under duty of care documentation.

12.2.6 During the redevelopment of the site, construction workers are likely to be in direct contact with the near surface soils and appropriate Health and Safety measures will need to be implemented based on the findings of this investigation, particularly in relation to the presence of asbestos in the Made Ground in WS1. It is recommended that suitable personal protective equipment (PPE) is used in line with the groundworkers risk assessment, which should take into account of the presence of asbestos fibres in the soils. Additionally, where excavation into the Made Ground occurs appropriate precautions to limit the spread of potentially asbestos containing materials or asbestos fibres becoming airborne should be taken. This should include, but may not be limited to, damping down of soils during and after excavation.

12.2.7 Neighbouring site users may be potentially exposed to residual contamination through generation of dust through site redevelopment activities. This is an acute exposure risk and is manageable by implementing an appropriate construction management plan. Best practice will be applied during groundworks to minimise the release of dusts, including the damping of excavations and haul routes. Haulage vehicles removing excess soil from site should be sheeted to prevent escape of soils in transit.

12.2.8 It is recommended that a copy of this report is supplied to utility companies and that their recommendations relating to appropriate supply pipes are adhered to.

12.2.9 Should any areas of previously unidentified potentially contaminated soil be encountered during future site construction works, we would recommend consultation with Georisk to ensure that our recommendations continue to apply. Any potentially contaminated soils would need to be left in situ pending further assessment.

12.2.10 If required to satisfy planning and/or land quality conditions, this report should be submitted to the relevant regulatory bodies for approval before any construction work starts on site.

13. ENGINEERING CONSIDERATIONS

13.1 Preparatory Works

13.1.1 Site preparatory works will need to be carried out to facilitate development and are likely to include:

- removal of remnant foundations and any other buried obstructions;
- diversion and relocation of existing services;
- infilling of any voids with suitably compacted granular fill;
- reprofiling of site levels to achieve a suitable development platform (the extent of which will depend on agreed levels).

13.2 Foundation Design

13.2.1 This investigation has identified Made Ground exceeding 2.0 m and locally exceeding 3.0 and 6.0 m depth overlying the Soft Bed Flags, comprising weathered soil described as soft or soft to firm clay and loose sand, with sandstone bedrock recorded at relatively shallow depth in the south and east of the site.

13.2.2 Groundwater was encountered at depths of 2.8 and 4.0 m begl in WS2 and WS5 during the fieldwork and monitoring installations have typically remained dry throughout the monitoring programme.

13.2.3 The proposed development is to comprise a new care home. Based on the ground conditions encountered, the use of traditional spread footings is not considered viable due to the presence of deep Made Ground, buried obstructions and soft clay/loose sand of the Soft Bed Flags and; therefore, it is recommended that consideration is given to an abnormal foundation solution, such as piling.

13.2.4 Discussions would need to be held with specialist contractors to determine whether ground improvement is viable and/or the most suitable pile design and the piling scheme. As the load bearing characteristics of piles are dependent upon the type of pile used, method of installation, construction and workmanship, it is recommended that detailed discussions are held with suitably experienced piling contractors prior to finalising design. In any event positive assurances should be sought from the piling contractor in respect of performance and a representative number of piles should be subject to pile loading tests. Further ground investigation comprising deeper boreholes may be required for foundation design purposes.

13.2.5 Vibration control measures may be needed to ensure that pile installation does not impact adjacent buildings and infrastructure.

13.3 Floor Slabs

13.3.1 Based on the ground conditions encountered and to comply with current guidance on soil-gas risk, it is recommended that a suspended floor slab design is adopted for the proposed development.

13.4 Buried Concrete Requirements

13.4.1 For the near-surface soils, water soluble sulphate testing results (expressed as SO_4 in a 2:1 water:soil extract) range from < 0.01 to 1.6 g/l with pH values of 8.6 to 9.2.

13.4.2 Based on test results undertaken on a total of 10 No. soil samples, the mean of the lowest 20 % of pH values is 8.65 and the mean highest 20 % of water-soluble sulphate results is 0.865 g/l. Following the guidance given in the BRE Special Digest (2005) and assuming *'mobile'* groundwater conditions for a *'brownfield'* site, the Aggressive Chemical Environment (ACEC) classification has been determined. These indicate a Design Sulphate Class of DS-2 and an ACEC class of AC-2 apply at the site.

13.5 Road/Pavement Design

13.5.1 Final road and pavement levels are not known at this stage; however, for preliminary design purposes, a long term CBR value of 2 % should be assumed for Made Ground present at the site (based on average construction conditions).

13.5.2 The proposed formation should be proof rolled and caution must be exercised to ensure that any soft/loose areas identified within the formation are excavated and filled with suitably compacted granular fill. Once road alignments and levels have been finalised, in situ CBR tests should be undertaken to allow detailed design of road formations to be made.

13.6 Excavations

13.6.1 Conventional mechanical excavation should be readily achievable through the near-surface Made Ground and weathered Soft Bed Flags; however, heavier plant and/or breaking equipment may be required to break up remnant foundations and other buried obstructions from historical development and to excavate deeper into the sandstone bedrock where present at shallow depth.

13.6.2 Shallow excavations should remain stable in the short-term; however, instability may occur in excavations left open for extended periods of time. Support should be provided in any excavations requiring man entry.

13.6.3 Care should be taken to limit the exposure of any excavation prepared to receive concrete, which may cause deterioration and a reduction in bearing capacity. Foundation excavations should be inspected by qualified personnel and if any soft or very loose materials are encountered at formation level, foundations would have to be deepened and infilled with lean mix concrete.

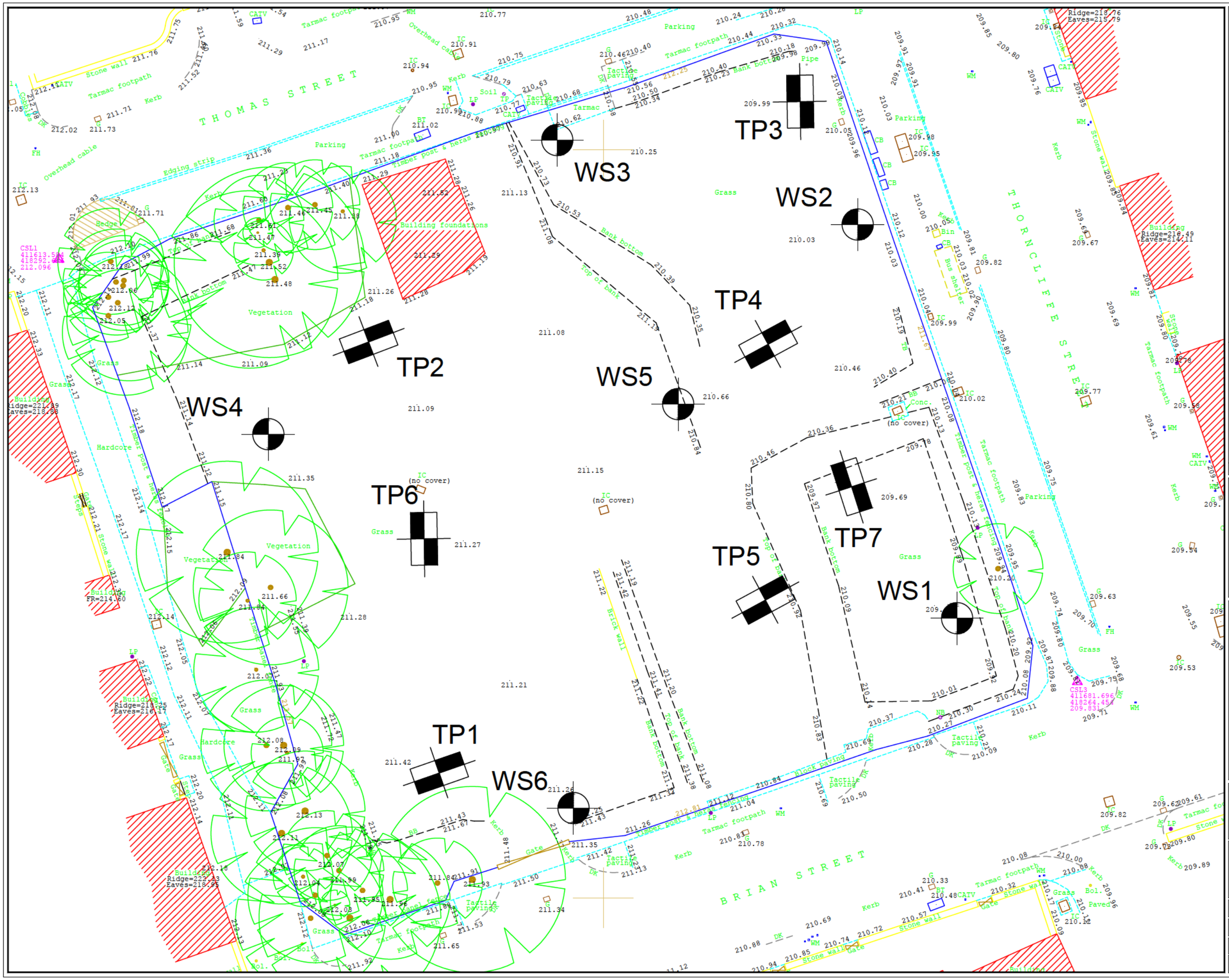
13.6.4 The findings of this investigation indicate that significant water ingress is unlikely to occur in temporary excavations; however, any localised seepage should be controllable by sump pumping.

13.7 Soakaways

13.7.1 Infiltration testing has not been carried out as part of this investigation; however, due to the ground conditions encountered comprising deep Made Ground and very clayey sand/clay Soft Bed Flags, it is considered that the use of soakaway drainage is not considered viable and an alternative drainage solution will need to be adopted.

APPENDIX A
DRAWING

Drawing No.	Drawing Title
22052/1	Exploratory Hole Location Plan



Notes

This drawing is to be read in conjunction with all development drawings, and designers risk assessments.

This drawing must not be scaled. Work to figured dimensions only.

KEY

WS — Dynamic Percussive Sampling Borehole Location

TP — Trial Pit Location

Rev	Date	Description	Initials

Client

MULLER PROPERTY GROUP

georisk MANAGEMENT

Varney House, 91 Spon Lane, West Bromwich, B70 6AB
t. 0121 553 4044, f. 0121 553 1112
www.georisk-uk.com, email. enquiries@georisk-uk.com

Contract

THOMAS STREET, LINDLEY
HUDDERSFIELD

Drawing Title

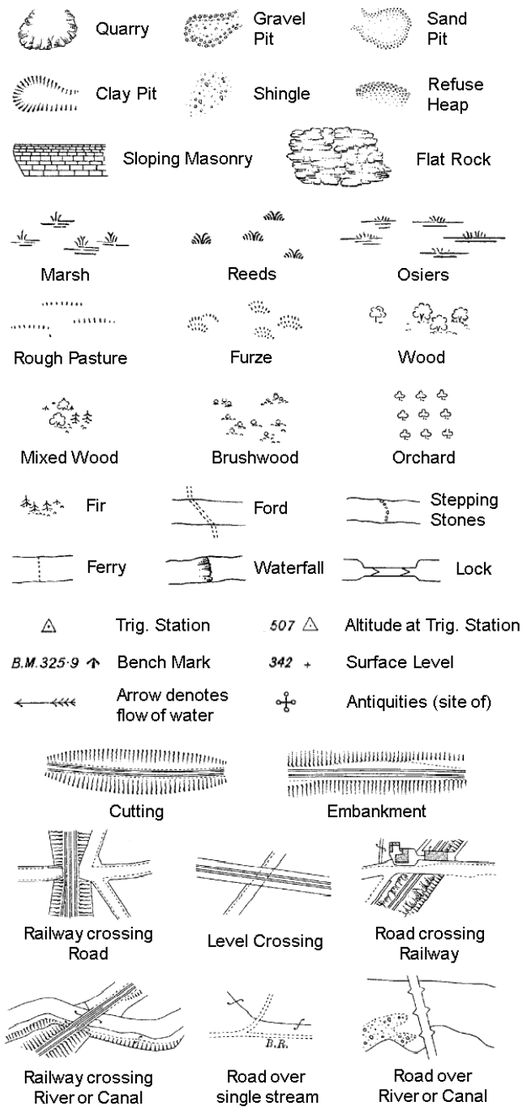
EXPLORATORY HOLE LOCATION PLAN

Drawing Status	FINAL		
Drawn By	RC	Date	10/05/22
Checked/Approved	AMG	Date	10/05/22
Scale	NTS	Drawing Number	22052/1

APPENDIX B
HISTORICAL MAP EXTRACTS

Historical Mapping Legends

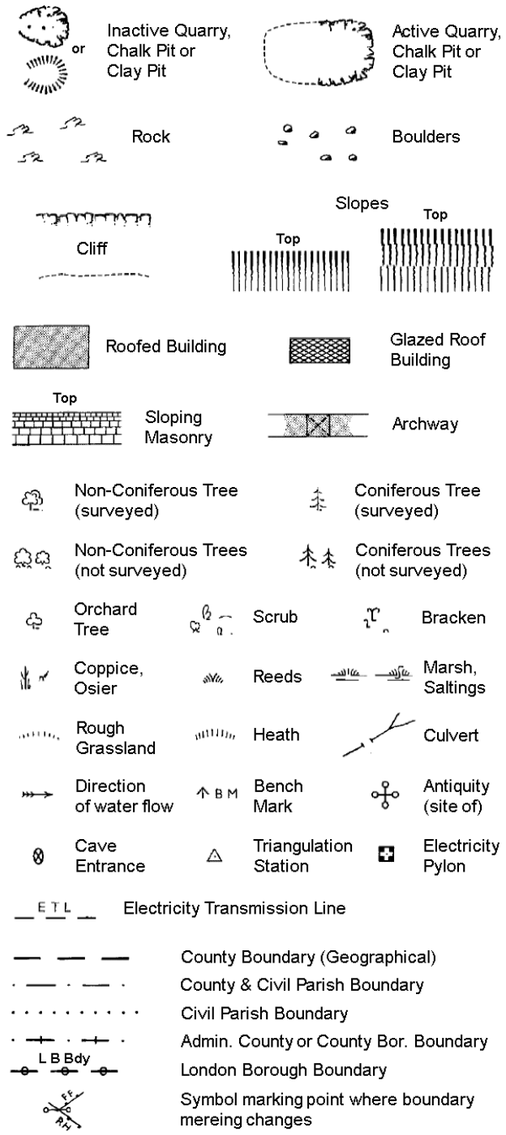
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

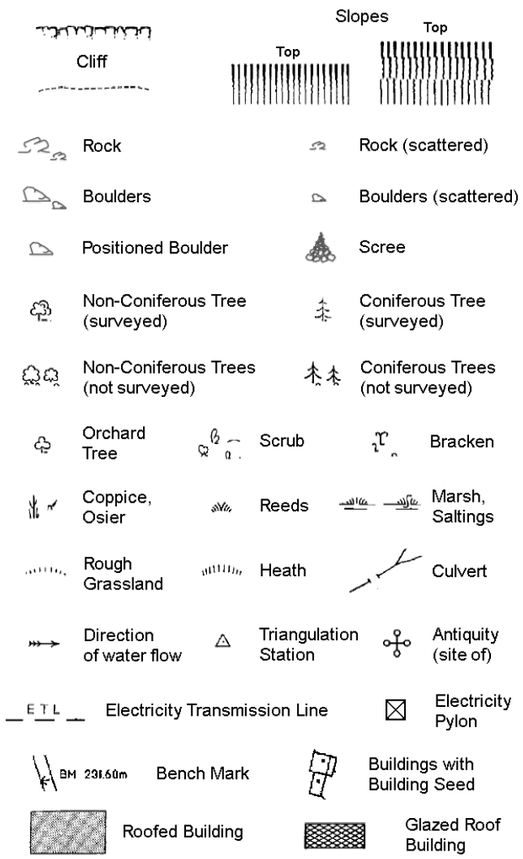
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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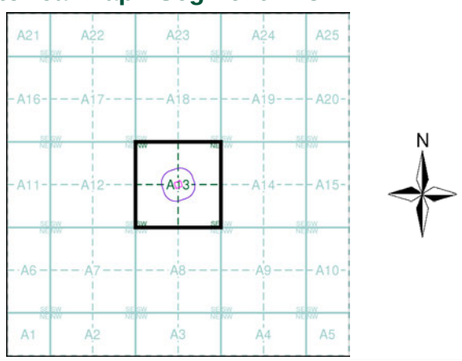
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1907	3
Yorkshire	1:2,500	1918	4
Ordnance Survey Plan	1:1,250	1960 - 1962	5
Ordnance Survey Plan	1:2,500	1962 - 1963	6
Ordnance Survey Plan	1:1,250	1966 - 1982	7
Ordnance Survey Plan	1:1,250	1972	8
Supply of Unpublished Survey Information	1:1,250	1975	9
Supply of Unpublished Survey Information	1:1,250	1976	10
Additional SIMs	1:1,250	1977 - 1990	11
Additional SIMs	1:1,250	1981 - 1990	12
Large-Scale National Grid Data	1:1,250	1993	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1995	15
Large-Scale National Grid Data	1:1,250	1996	16
Large-Scale National Grid Data	1:1,250	1996	17
Historical Aerial Photography	1:2,500	2000	18

Historical Map - Segment A13



Order Details

Order Number:	292118796_1_1
Customer Ref:	22052
National Grid Reference:	411650, 418280
Slice:	A
Site Area (Ha):	0.25
Search Buffer (m):	100

Site Details

Thomas Street, Lindley, HUDDERSFIELD, HD3 3JJ

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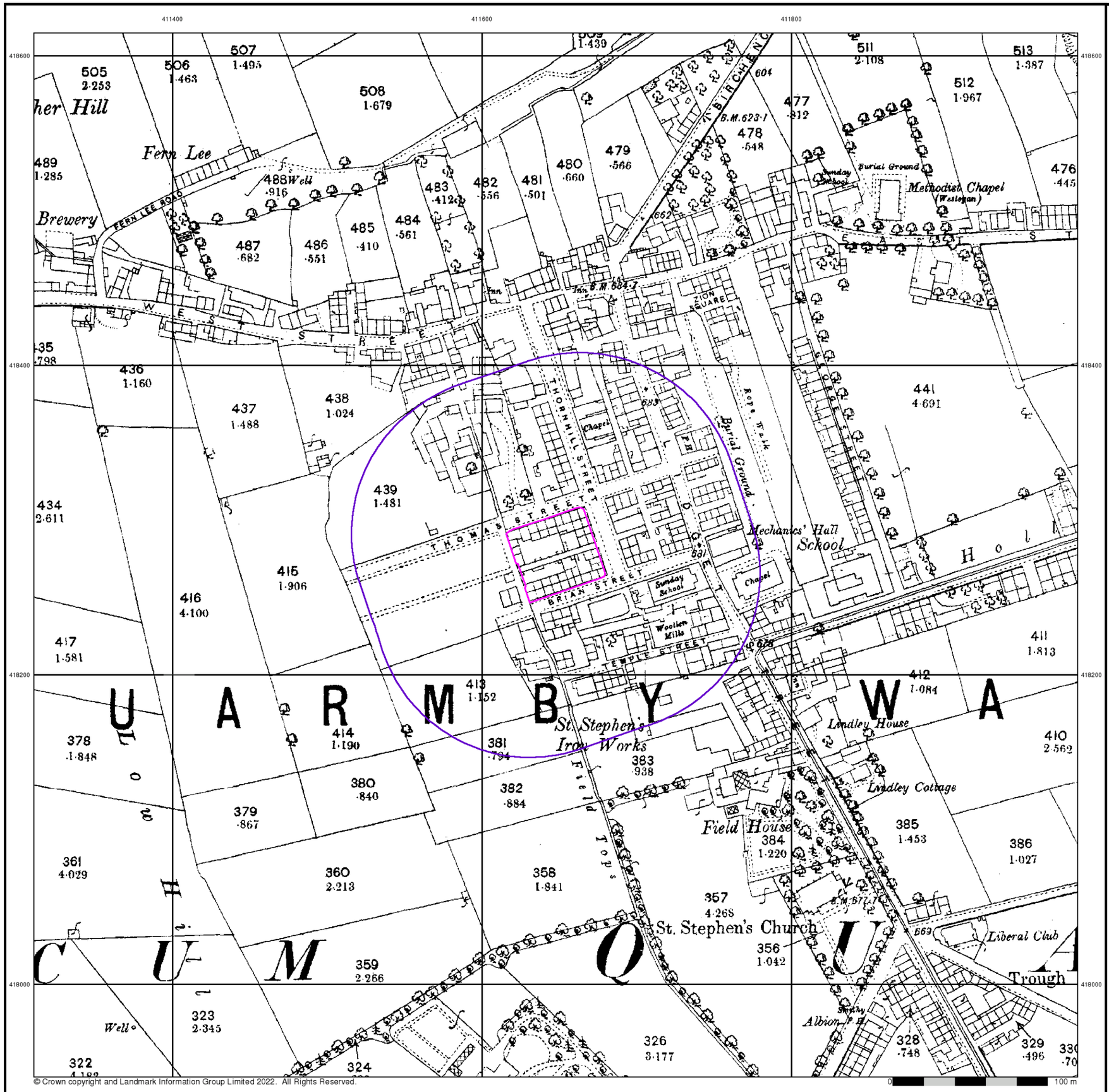

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Yorkshire

Published 1893

Source map scale - 1:2,500

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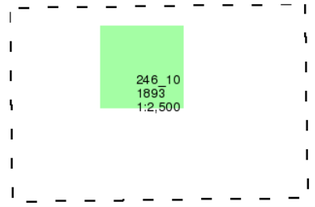
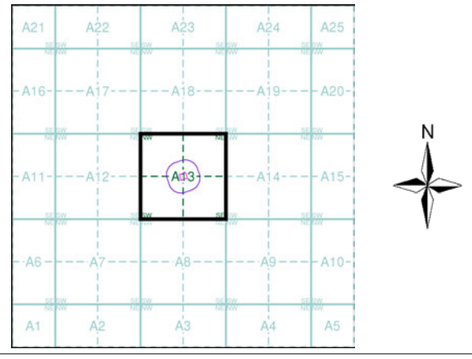
Map Name(s) and Date(s)



Historical Map - Segment A13



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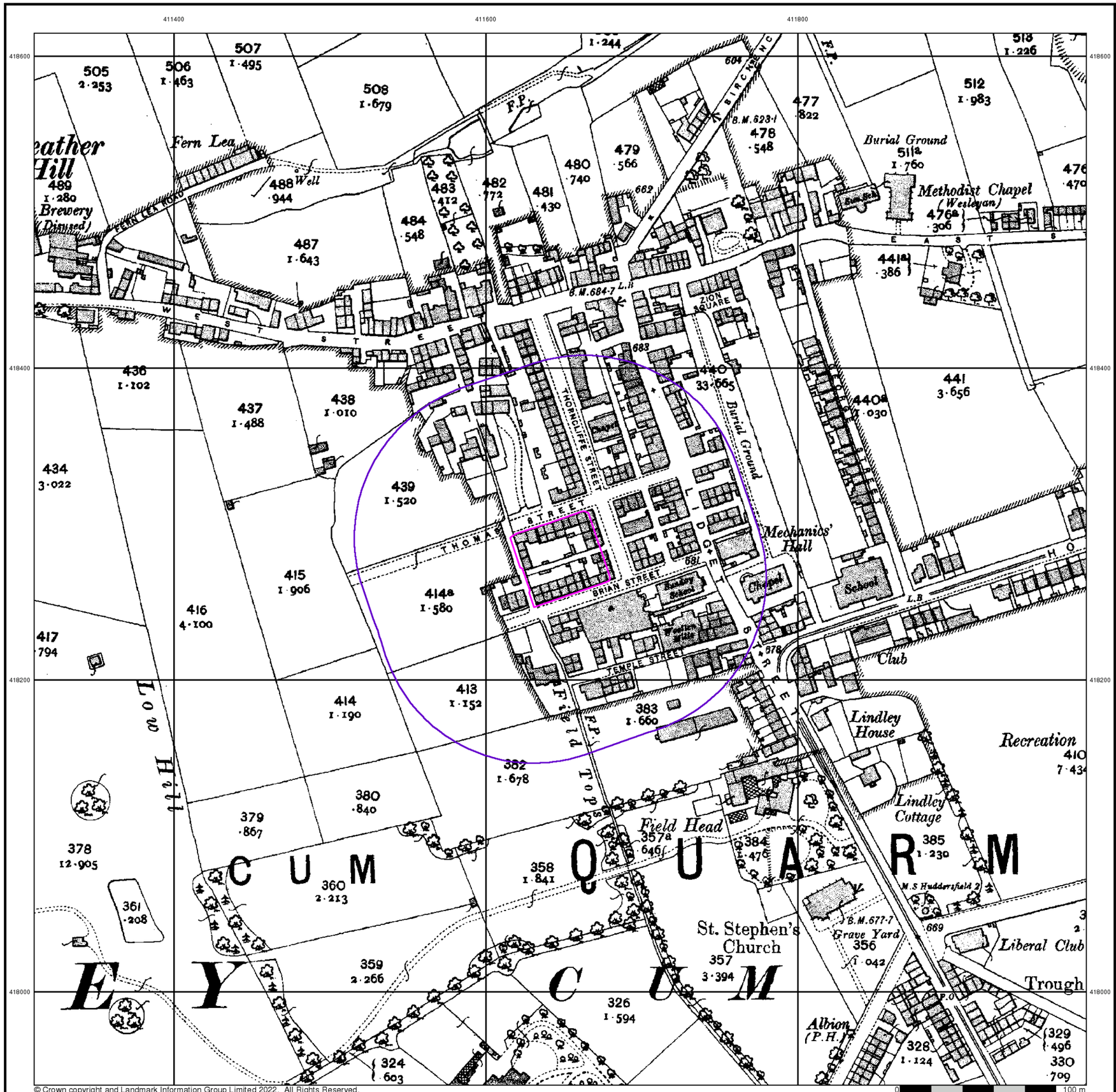

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Yorkshire

Published 1907

Source map scale - 1:2,500

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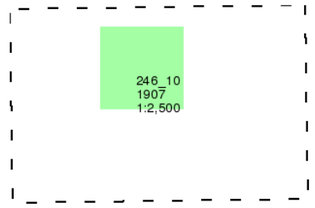

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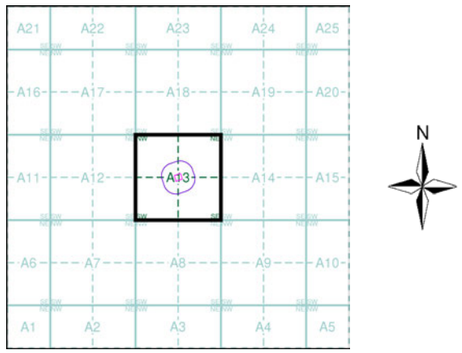

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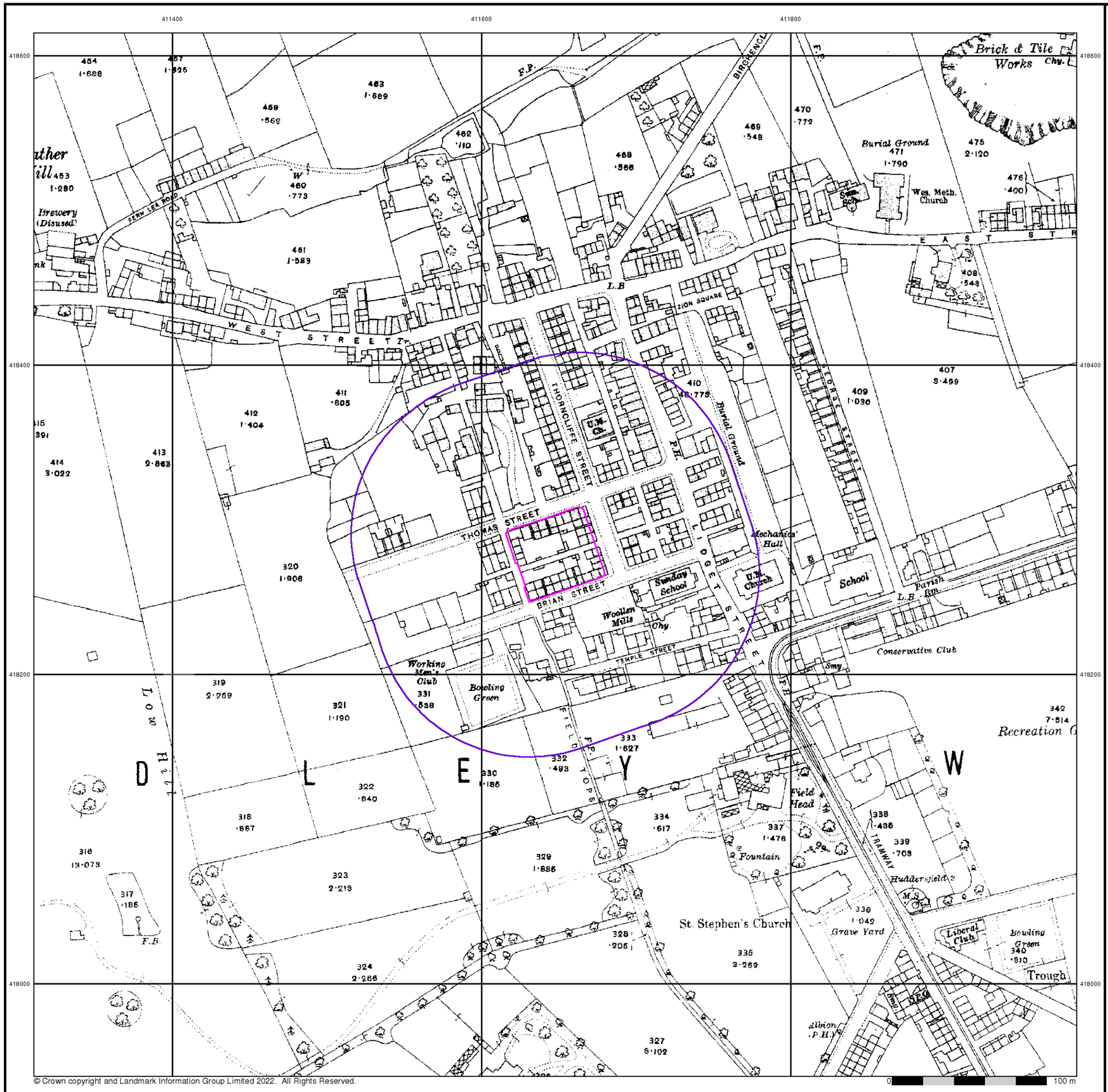

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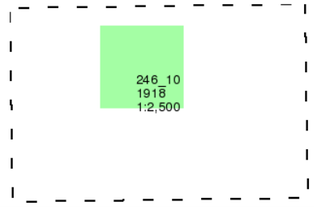

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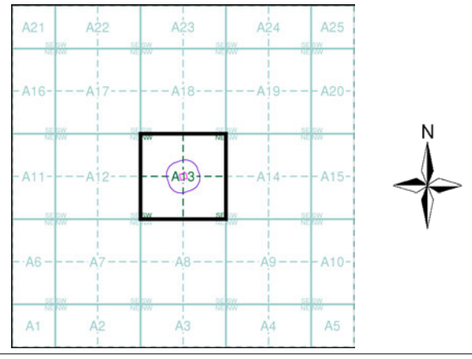

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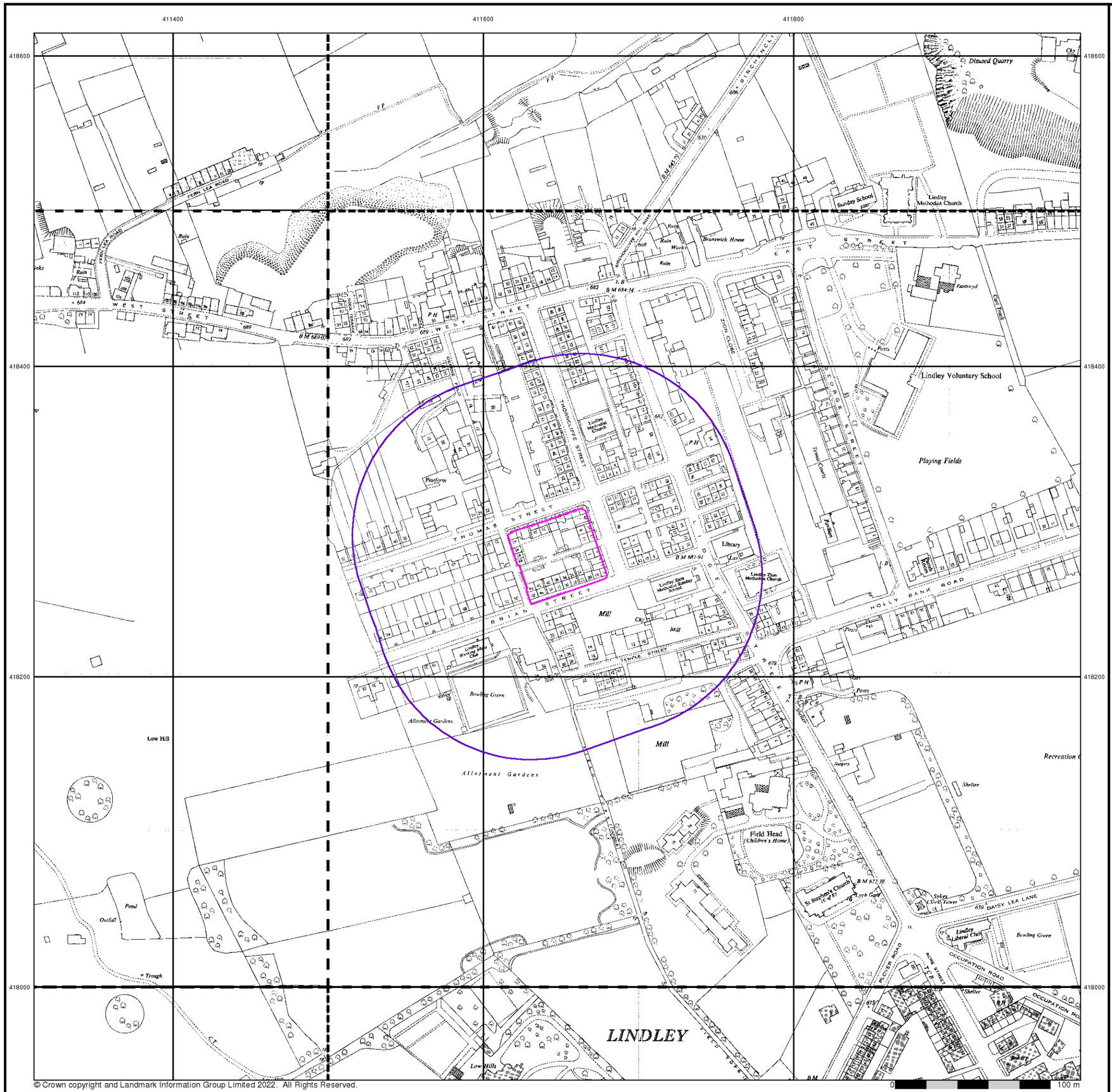

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Ordnance Survey Plan

Published 1960 - 1962

Source map scale - 1:1,250

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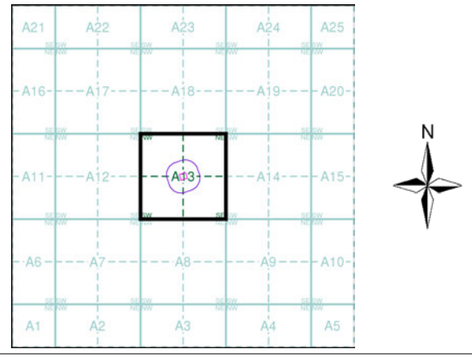
Map Name(s) and Date(s)

SE1118NW 1960 1:1,250	SE1118NE 1960 1:1,250		
SE1118SW 1960 1:1,250	SE1118SE 1960 1:1,250		
SE1117NW 1962 1:1,250	SE1117NE 1962 1:1,250		

Historical Map - Segment A13



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Site Area (Ha):	0.25
Search Buffer (m):	100

Site Details

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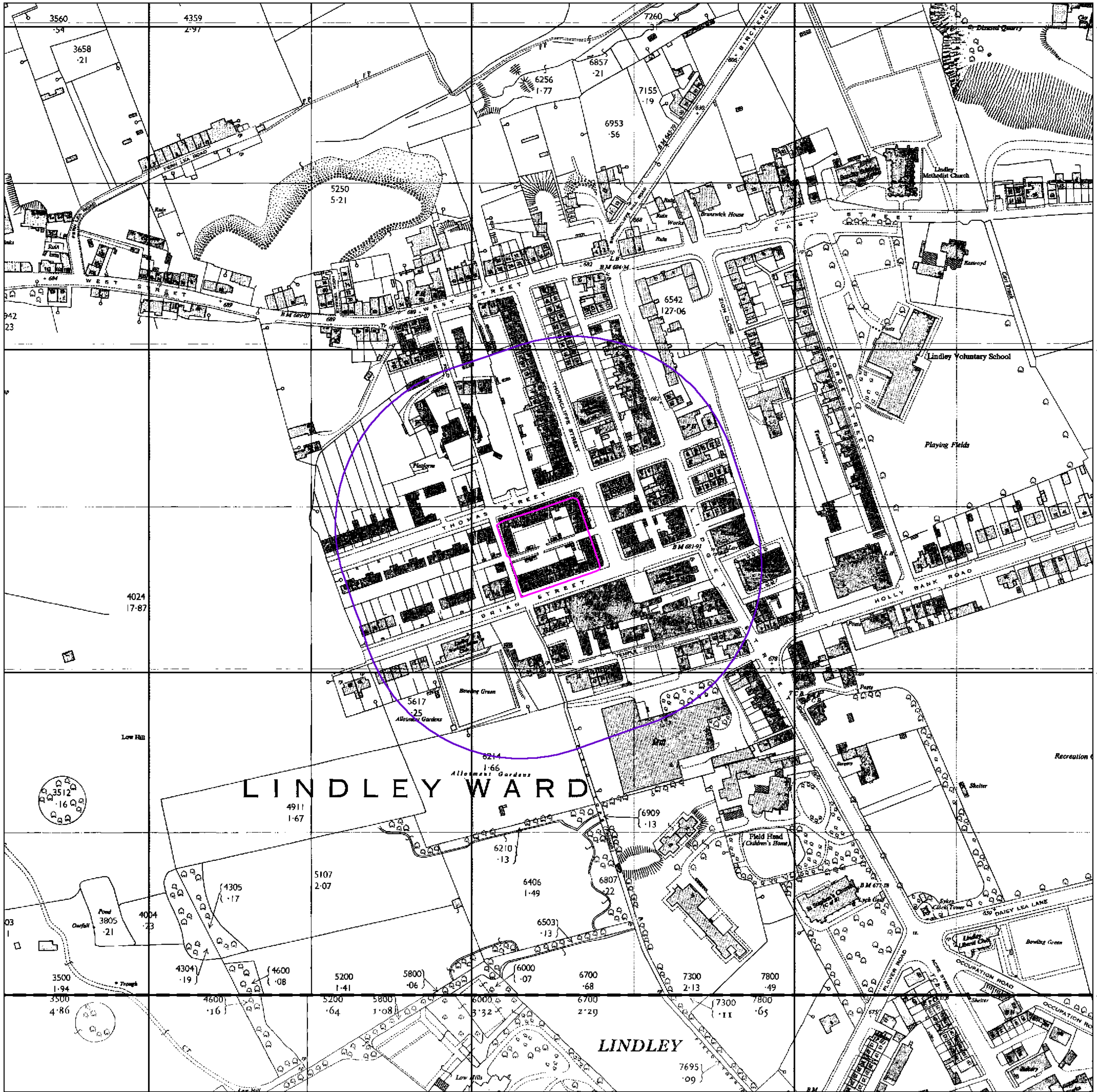

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Ordnance Survey Plan

Published 1962 - 1963

Source map scale - 1:2,500

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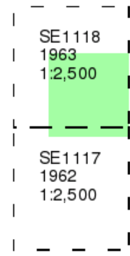
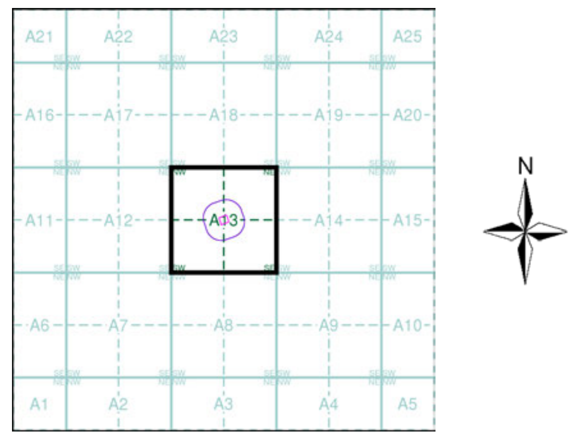


Historical Map - Segment A13



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Site Area (Ha): 0.25
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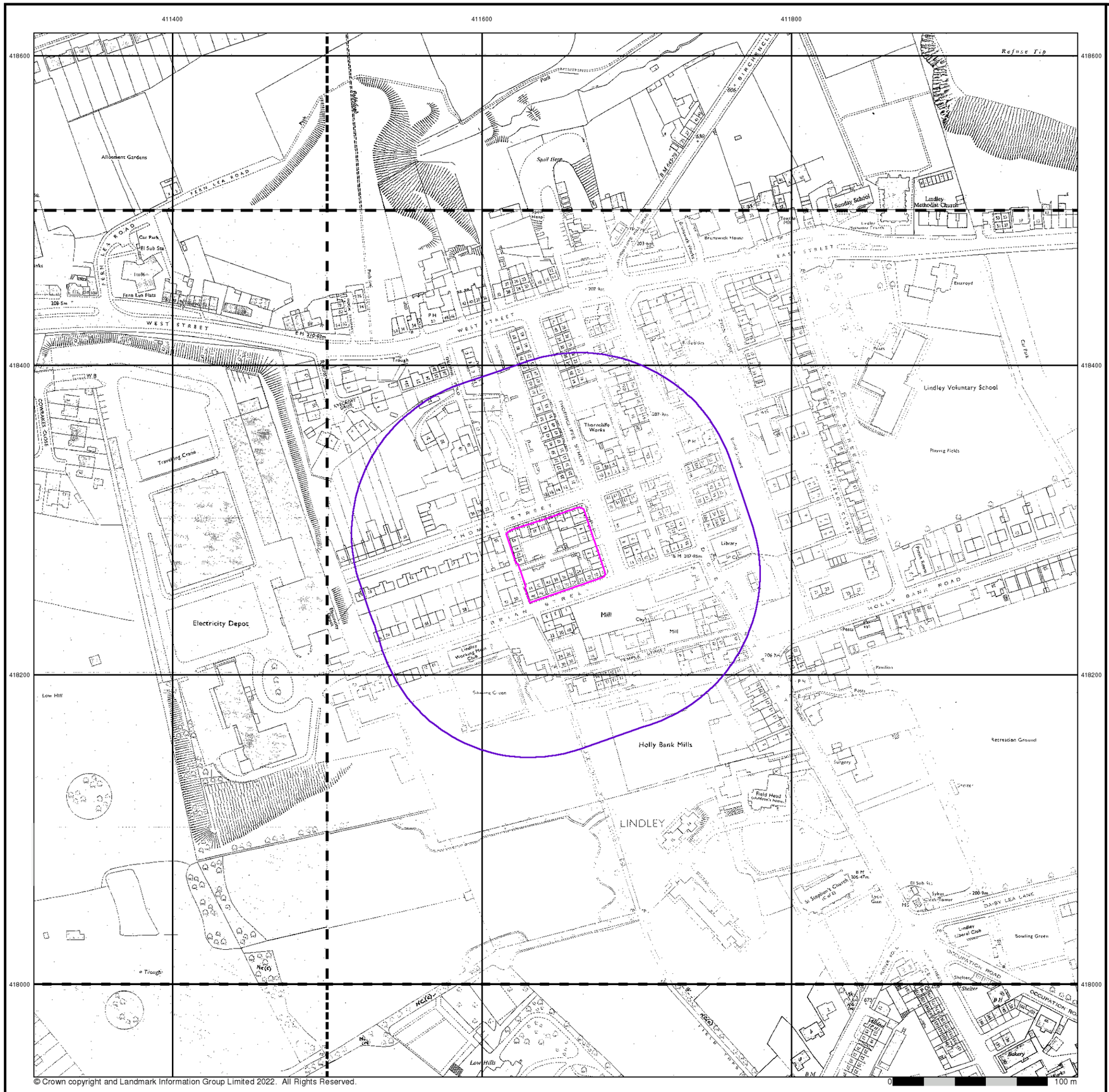

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Supply of Unpublished Survey Information

Published 1975

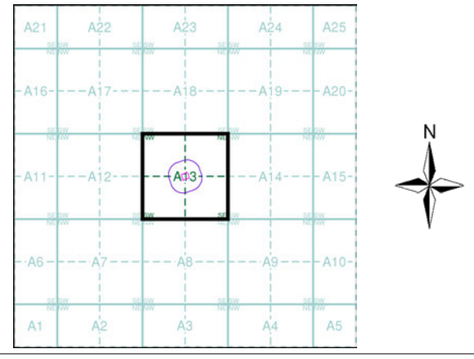
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE1118NW 1975 1:1,250
SE1118NE 1975 1:1,250
SE1118SW 1975 1:1,250
SE1118SE 1975 1:1,250
SE1117NW 1975 1:1,250
SE1117NE 1975 1:1,250

Historical Map - Segment A13



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Site Area (Ha):	0.25
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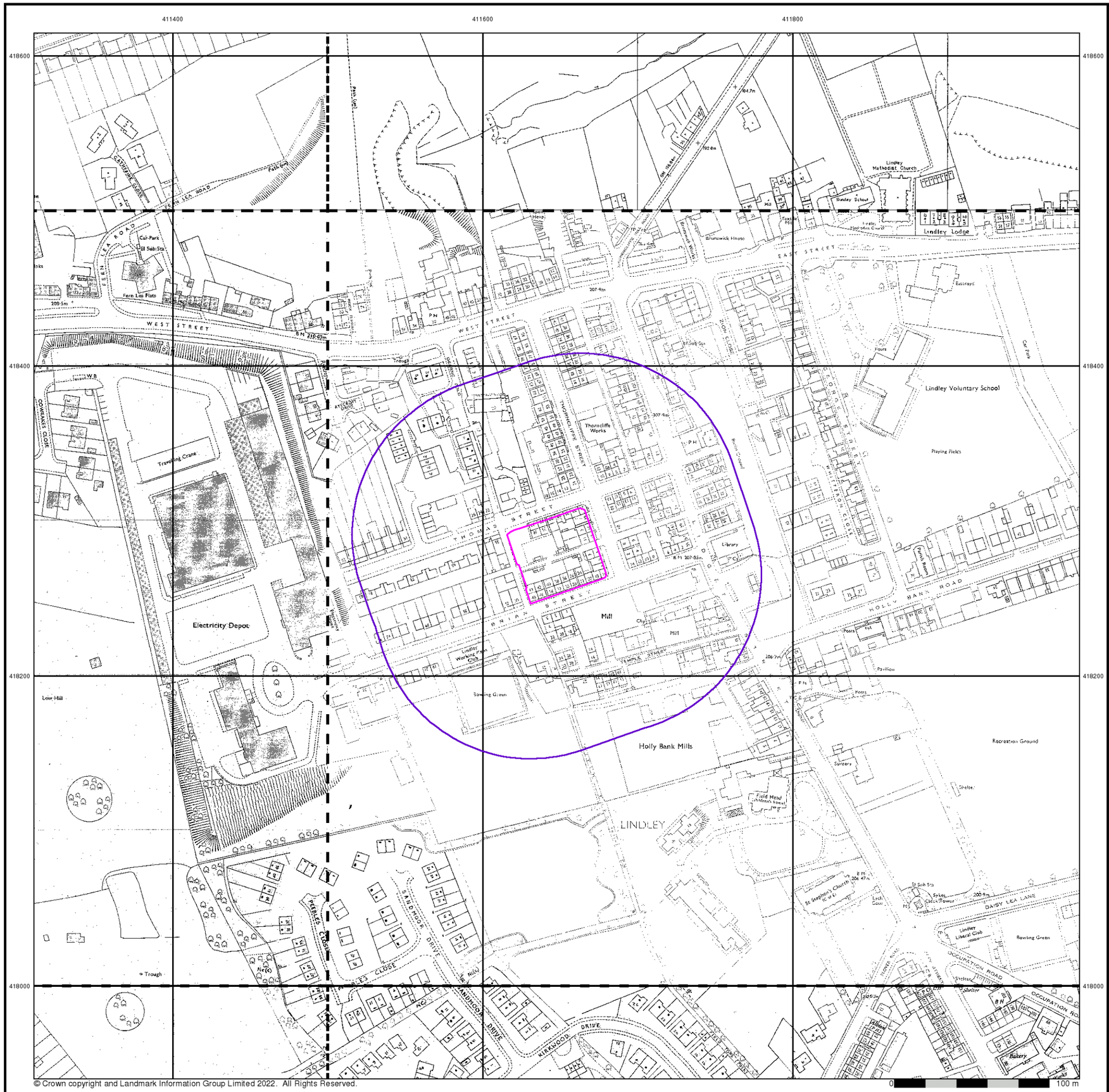
Fax: 0844 844 9951
Web: www.envirocheck co uk



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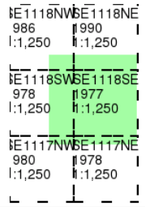
Additional SIMs

Published 1977 - 1990

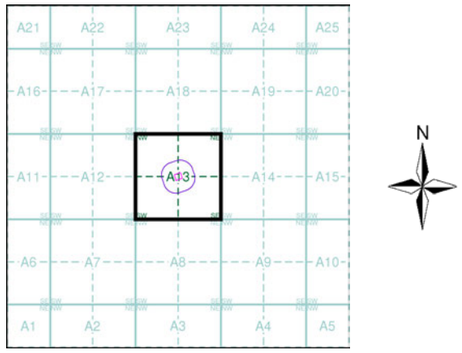
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

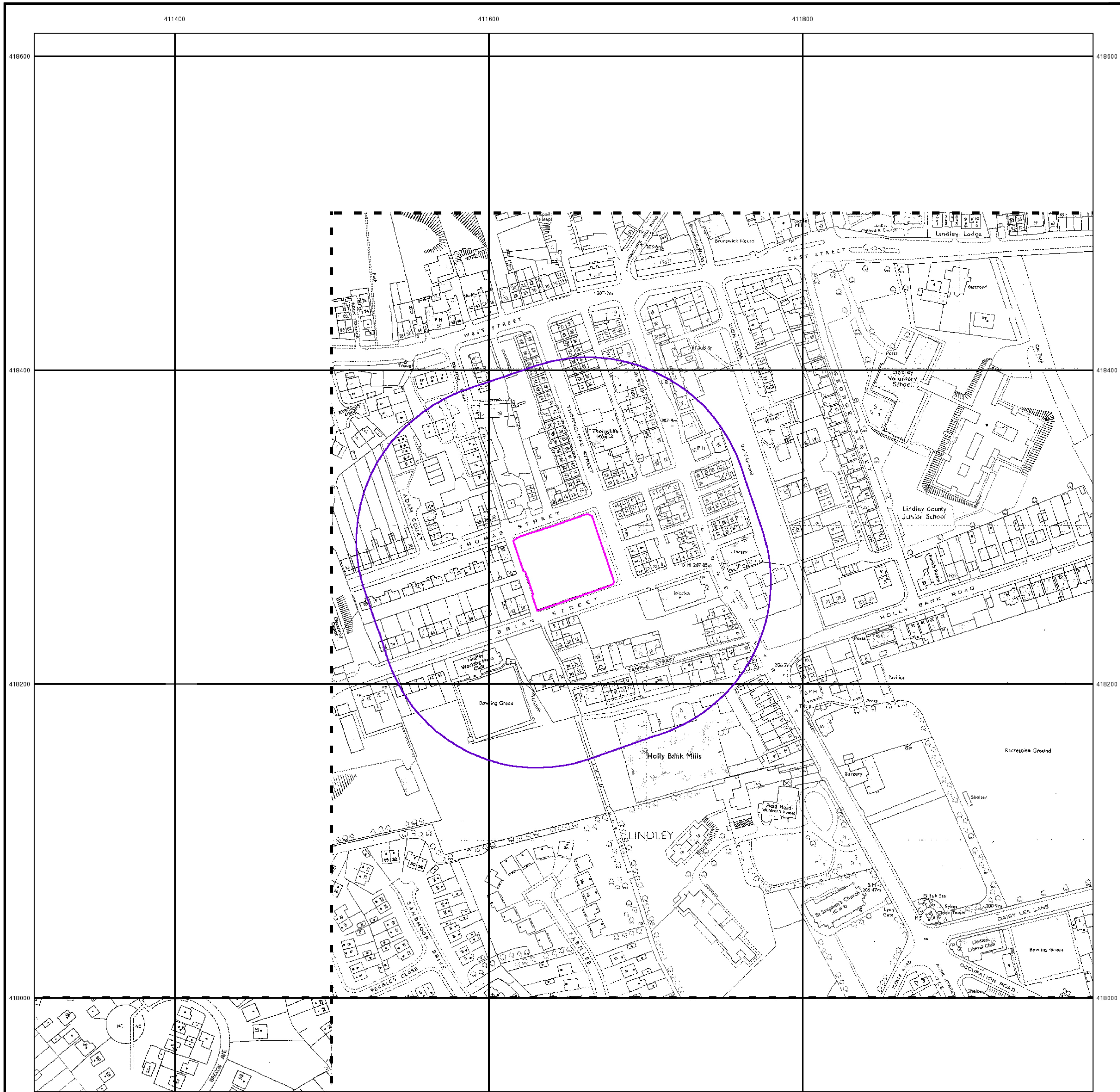
Order Number:	292118796_1_1
Customer Ref:	22052
National Grid Reference:	411650, 418280
Slice:	A
Site Area (Ha):	0.25
Search Buffer (m):	100

Site Details

Thomas Street, Lindley, HUDDERSFIELD, HD3 3JJ

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck co uk



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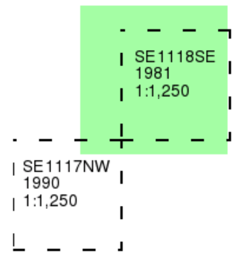
Additional SIMs

Published 1981 - 1990

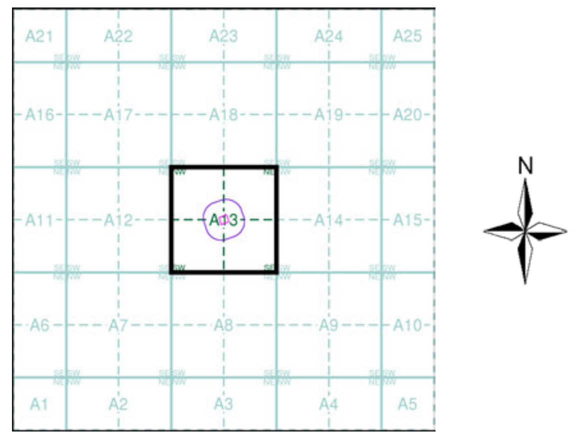
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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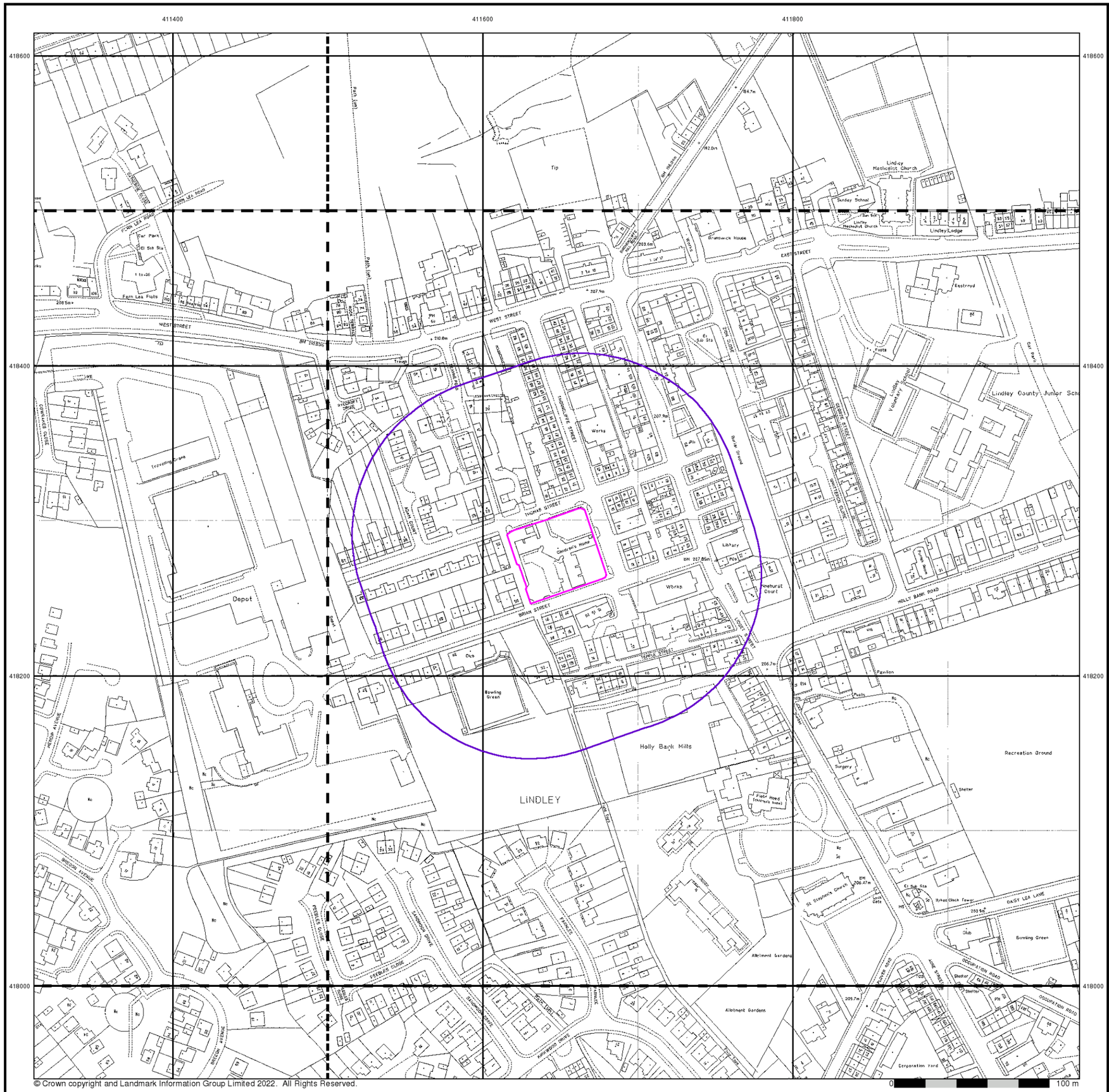


Envirocheck®

LANDMARK INFORMATION GROUP®

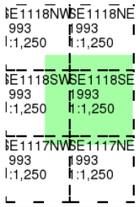
Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

'Large Scale Na ional Grid Data' superseded S M cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



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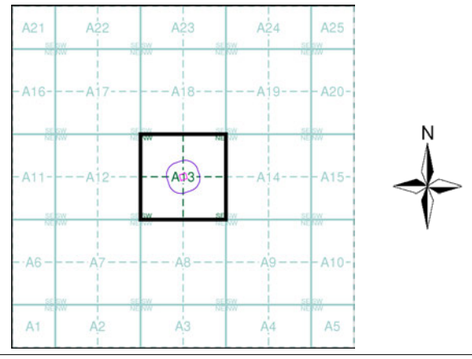

Order Details

Order Number:	292118796_1_1
Customer Ref:	22052
National Grid Reference:	411650, 418280
Slice:	A
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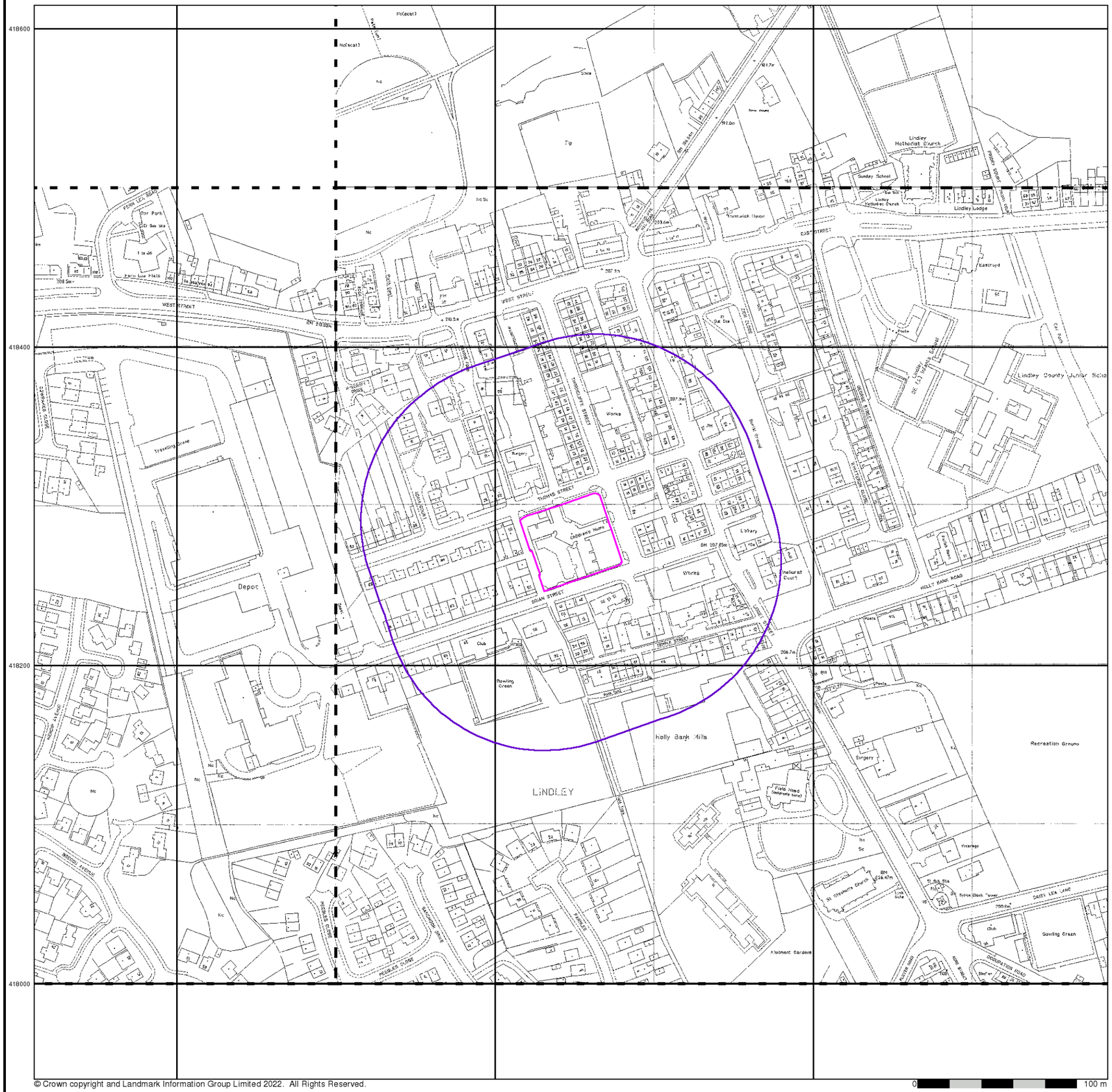

Envirocheck®

LANDMARK INFORMATION GROUP®

Large-Scale National Grid Data

Published 1996

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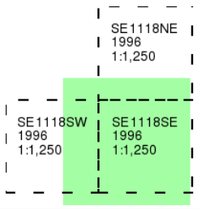
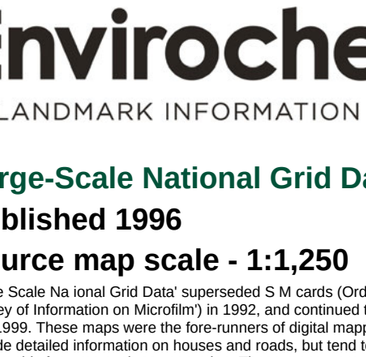


Historical Map - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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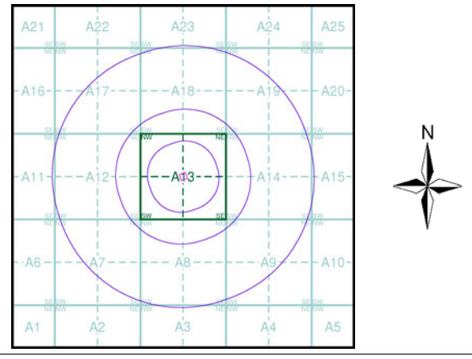
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1908	5
Yorkshire	1:10,560	1930	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1966	10
Ordnance Survey Plan	1:10,000	1978	11
Huddersfield	1:10,000	1984	12
Ordnance Survey Plan	1:10,000	1987	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2021	16

Historical Map - Slice A



Order Details

Order Number: 292118796_1_1
Customer Ref: 22052
National Grid Reference: 411650, 418280
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 1000

Site Details

Thomas Street, Lindley, HUDDERSFIELD, HD3 3JJ

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
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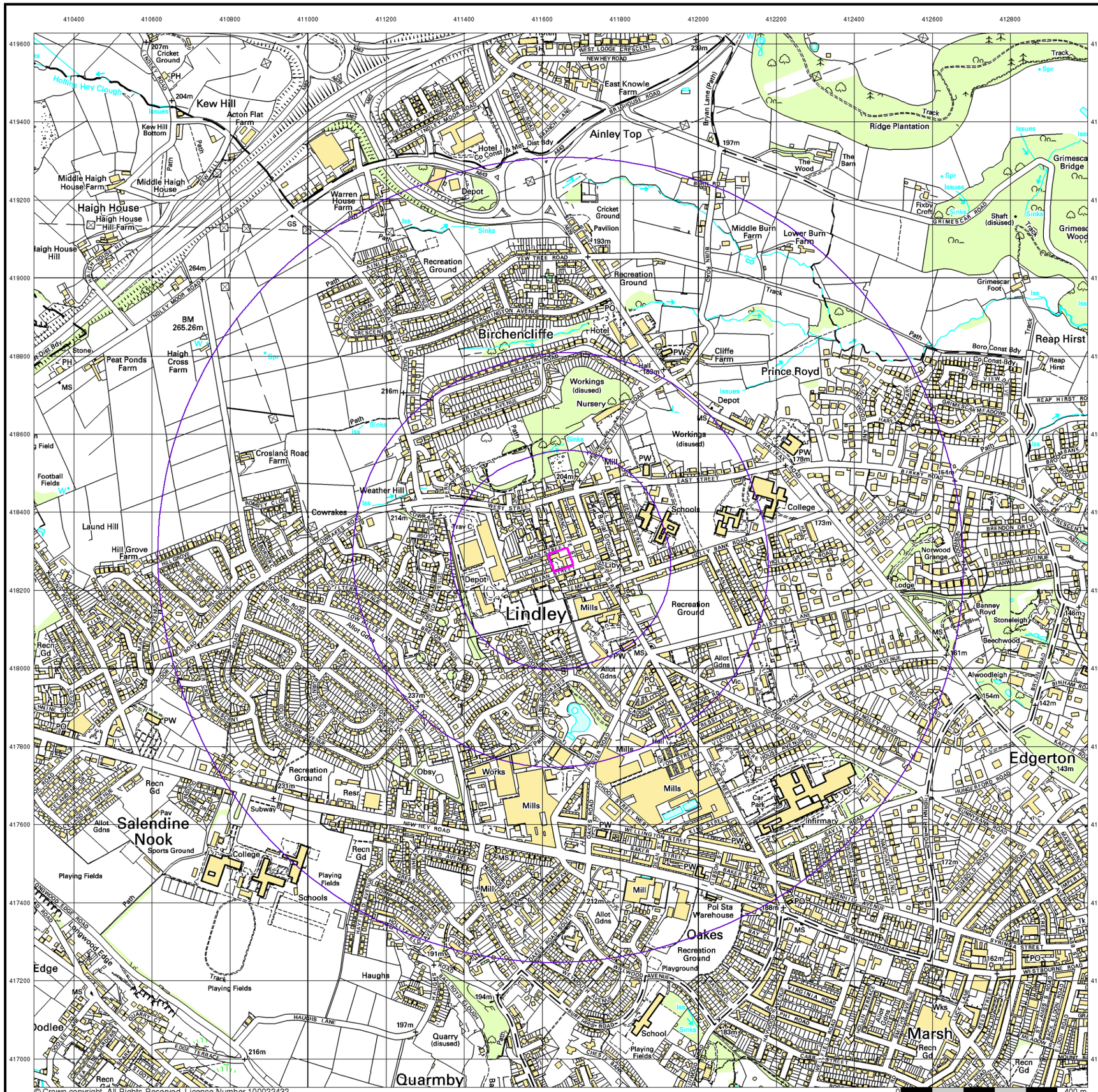

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10k Raster Mapping

Published 2000

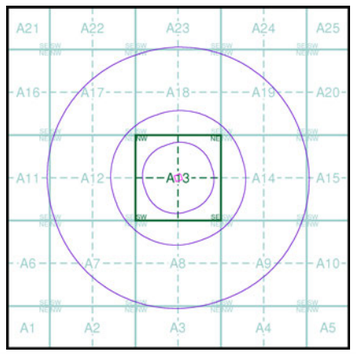
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE11NW
2000
1:10,000

Historical Map - Slice A



Order Details

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National Grid Reference:	411650, 418280
Slice:	A
Site Area (Ha):	0.25
Search Buffer (m):	1000

Site Details

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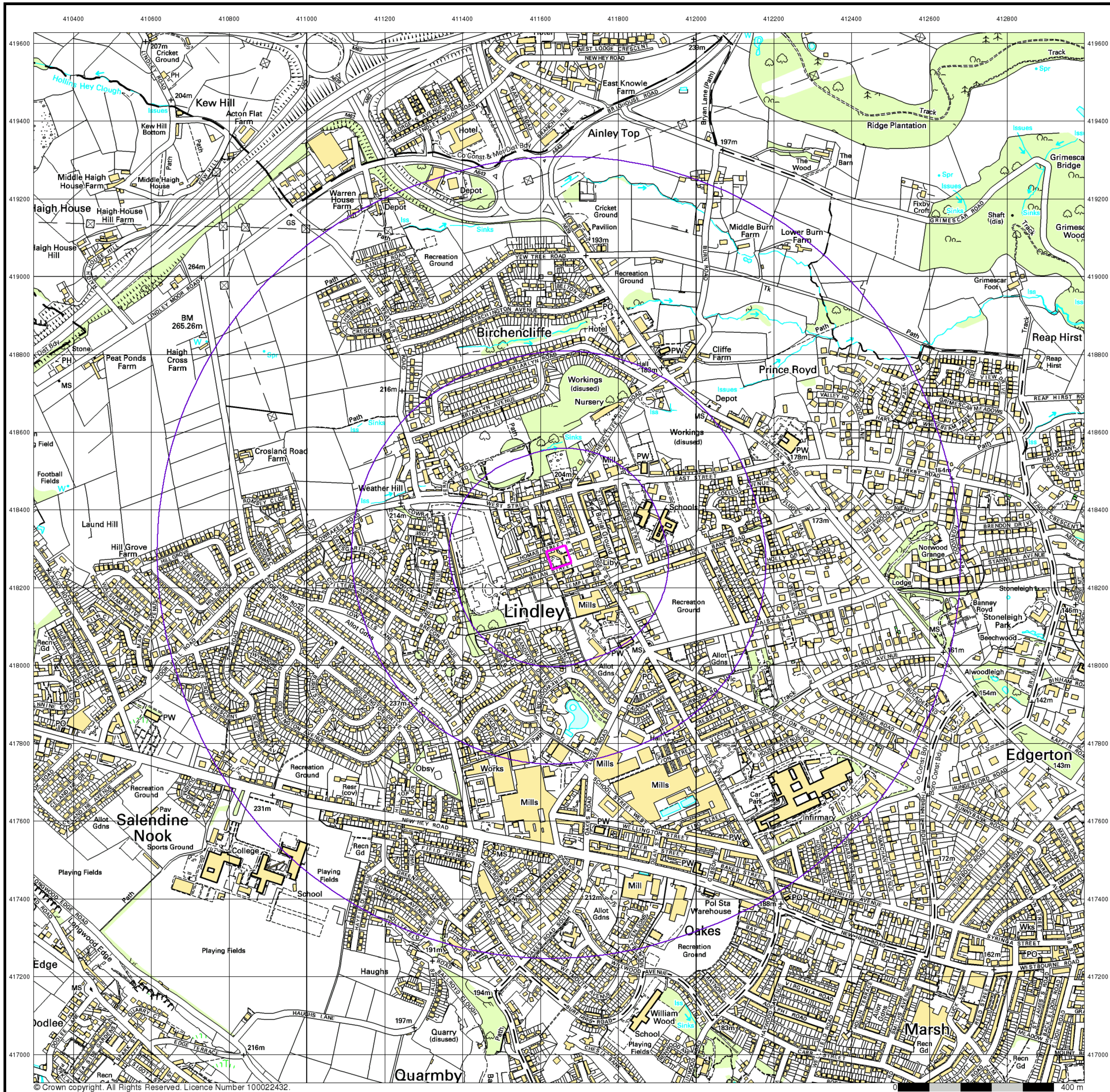


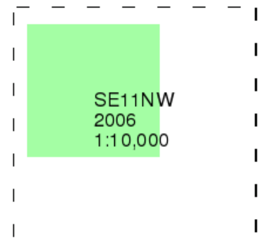
10k Raster Mapping

Published 2006

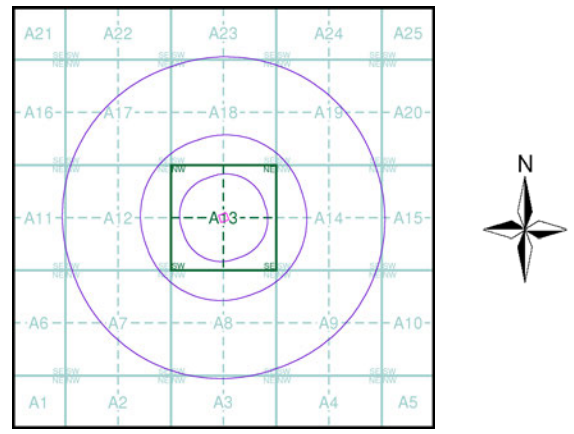
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 292118796_1_1
Customer Ref: 22052
National Grid Reference: 411650, 418280
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 1000

Site Details

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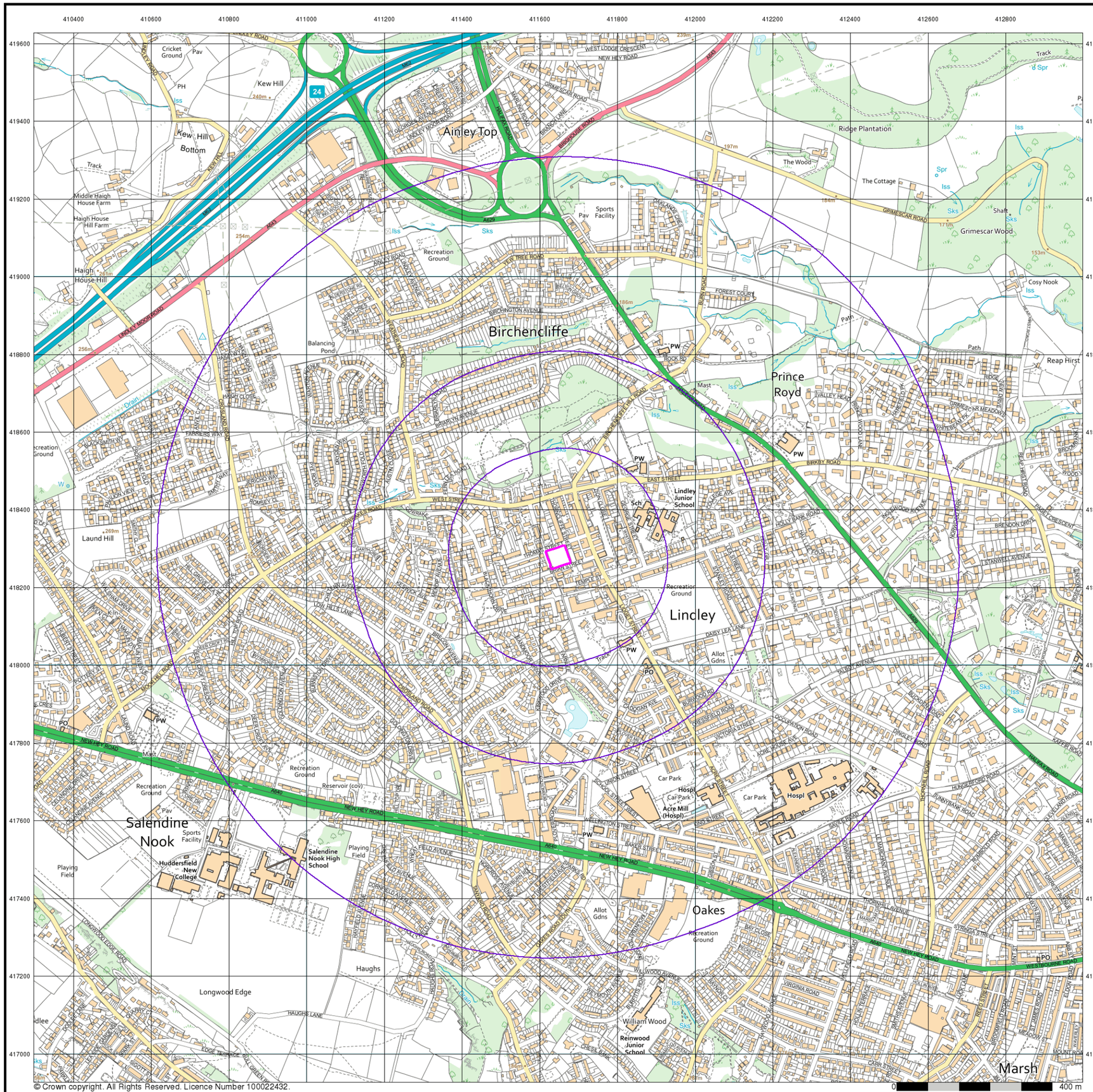


0 400 m

Envirocheck®

LANDMARK INFORMATION GROUP®

VectorMap Local

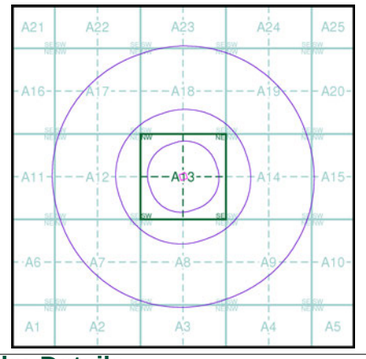
Published 2021

Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

Historical Map - Slice A



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APPENDIX C
COAL AUTHORITY MINING REPORT

The Coal Authority

CON29M
coal mining report

THOMAS STREET, LINDLEY, HUDDERSFIELD, WEST YORKSHIRE, HD3 3JJ

Known or potential coal mining risks

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

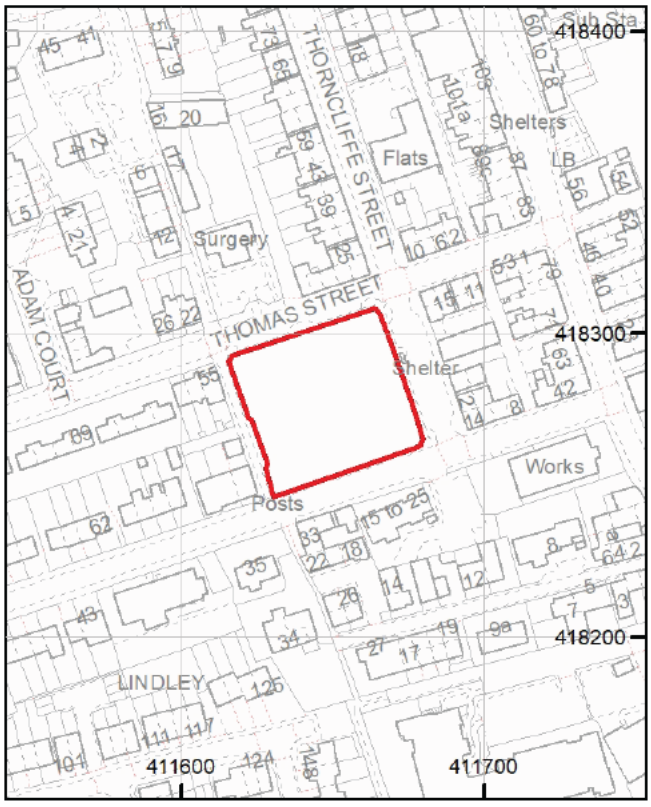
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on **0345 762 6848** or email **communications@coal.gov.uk**.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

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.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 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.

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **0800 288 4242**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

APPENDIX D
EXPLORATORY HOLE AND TRIAL PIT PHOTOGRAPHIC RECORDS

georisk MANAGEMENT
Georisk Management Ltd.
Tel: 0121 553 4044
email: enquiries@georisk-uk.com
www.georisk-uk.com

Trial Pit No. TP1
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411642.00 E 418258.00 N **Level:** 211.40 m AOD	**Date** 23/03/2022
Equipment: JCB 3CX		**Dimensions:** - Depth: 3.40 m	**Scale** 1:25
Client: Muller Property Group			**Logged By** RC

Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20	D1		0.40	211.00		MADE GROUND: Light yellowish brown sandy gravel.
							MADE GROUND: Greyish brown sandy cobble and boulder of sandstone and brick.
				2.40	209 00		Soft brown and grey sandy gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone and coal. (SOFT BED FLAGS)
	3.00	D2		3.40	208 00		End of Trial Pit at 3.40 m
		Type	Results				

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. **TP2** Sheet 1 of 1

Project Name	**Project No.**	**Co-ords:** 411635.00 E 418289.00 N	**Date**
Thomas Street, Lindley	22052	**Level:** 211.10 m AOD	23/03/2022

Equipment: JCB 3CX

Dimensions: - Depth: 3.10 m

Scale 1:25

Client: Muller Property Group

Logged By RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
					210 90		MADE GROUND: Light brown gravelly sand over membrane.
				0.20			MADE GROUND: Brown and orange clayey gravelly sand with cobble of sandstone and pockets of clay. Gravel is subangular to angular fine to coarse sandstone, brick and concrete.
	0.70	D1					
	2.60	D2					
				2.90	208 20		MADE GROUND: Soft to firm brown and orange sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal.
	3.00	D3		3.10	208 00		End of Trial Pit at 3.10 m
		Type	Results				

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. TP3
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411664.00 E 418305.00 N **Level:** 210.00 m AOD	**Date** 23/03/2022
Equipment: JCB 3CX		**Dimensions:** - Depth: 2.90 m	**Scale** 1:25
Client: Muller Property Group			**Logged By** RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
	0.20	D1					MADE GROUND: Brown silty sandy gravel with pockets of sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and brick.
				1.40	208.60		
	1.50	D2					Soft to firm orangish brown and light brown sandy gravelly CLAY with cobble of sandstone. Gravel is angular fine to coarse sandstone. (SOFT BED FLAGS)
	2.80	D3					
				2.90	207.10		End of Trial Pit at 2.90 m
		Type	Results				

1
2
3
4

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. **TP4** Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411661.00 E 418287.00 N **Level:** 210.40 m AOD	**Date** 23/03/2022
Equipment: JCB 3CX		**Dimensions:** - Depth: 3.20 m	**Scale** 1:25
Client: Muller Property Group			**Logged By** RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
	0.40	D1		0.90	209 50		MADE GROUND: Dark brown slightly clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone, brick and coal.
	1.60	D2		2.40	208 00		Soft to firm orangish brown and light brown very sandy gravelly CLAY with cobble of sandstone. Gravel is subangular to angular fine to coarse sandstone and coal. (SOFT BED FLAGS)
	2.50	D3		3.20	207 20		Orangish brown slightly clayey gravelly SAND. Gravel is subangular to angular fine to coarse sandstone and coal. (SOFT BED FLAGS) End of Trial Pit at 3.20 m
		Type	Results				

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. **TP5** Sheet 1 of 1

Project Name	**Project No.**	**Co-ords:** 411661.00 E 418270.00 N	**Date**
Thomas Street, Lindley	22052	**Level:** 210.90 m AOD	23/03/2022

Equipment: JCB 3CX

Dimensions: -

Depth: 3.30 m

Scale 1:25

Client: Muller Property Group

Logged By RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
	0.10	D1		0.20	210.70		MADE GROUND: Dark brown clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone, brick and coal.
				0.50	210.40		MADE GROUND: Light grey sandy gravel.
				2.20	208.70		MADE GROUND: Greyish brown clayey very sandy gravel and cobble of sandstone with brick, coal, concrete, plastic and metal.
				3.30	207.60		MADE GROUND: Soft dark grey very sandy very gravelly clay. Gravel is subangular to angular fine to coarse concrete, sandstone and brick.
							End of Trial Pit at 3.30 m
		Type	Results				

Remarks: Groundwater seepage encountered at approximately 3.0 m begl during excavation. Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. TP6
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411638.00 E 418274.00 N **Level:** 211.30 m AOD	**Date** 23/03/2022
Equipment: JCB 3CX		**Dimensions:** - Depth: 3.00 m	**Scale** 1:25
Client: Muller Property Group			**Logged By** RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
				0.30	211.00		MADE GROUND: Light brown sandy gravel.
	0.80	D1		1.00	210 30		MADE GROUND: Brown and orange sandy gravelly clay with pockets of black sandy gravel. Gravel is subangular to angular fine to coarse sandstone, brick and coal.
	1.70	D2		2.00	209 30		Soft to firm orangish brown and brown silty sandy gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone. (SOFT BED FLAGS)
				3.00	208 30		Firm dark greyish brown silty very sandy very gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone. (SOFT BED FLAGS)
							End of Trial Pit at 3.00 m
		Type	Results				

1 2 3 4

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Trial Pit No. **TP7** Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411666.00 E 418278.00 N **Level:** 209.80 m AOD	**Date** 23/03/2022
Equipment: JCB 3CX		**Dimensions:** - Depth: 1.30 m	**Scale** 1:25
Client: Muller Property Group			**Logged By** RC

Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
	0.10	D1		0.20	209.60		MADE GROUND: Light brown silty gravelly sand. Gravel is subrounded to angular fine to coarse sandstone, quartzite and brick.
	1.20	D2		1.30	208 50		Light grey and orange clayey gravelly SAND with frequent pockets of sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal. (SOFT BED FLAGS)
				1.35	208.45		Light greyish brown SANDSTONE. (SOFT BED FLAGS) End of Trial Pit at 1.30 m
		Type	Results				

Remarks: Groundwater not encountered during excavation.
Backfilled with arisings on completion.

Stability: Pit sides stable.

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Borehole No. WS1
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411673.00 E 418268.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 209.80 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
		0.50	D1		0.60	209.20		MADE GROUND: Dark brown slightly clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone, brick and concrete.
					0.80	209.00		MADE GROUND: Firm dark brown sandy gravelly clay. Gravel is subrounded to angular fine to coarse quartzite, sandstone, brick and concrete.
		1.00	SPT	N=2 (1,1/1,0,0,1)				MADE GROUND: Loose brown slightly clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone, brick and concrete.
		1.50	D1					
		2.00	SPT	N=8 (2,2/2,2,2,2)	2.20	207.60		Soft to firm orangish brown and grey silty very sandy gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone and occasional coal. (SOFT BED FLAGS)
		2.80	D3		2.70	207.10		Soft to firm grey silty sandy very gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone. (SOFT BED FLAGS)
		3.00	SPT	50 (2,10/50 for 85mm)	3.00	206.80		End of Borehole at 3 00 m

Remarks: Groundwater not encountered during drilling.
Drilling refusal at 3.0 m begl - possible bedrock encountered.
Backfilled with arisings on completion.

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Borehole No. WS2
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411667.00 E 418295.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 210.00 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND: Light brownish grey sandy gravel.
		0.40	D1		0.40	209.60		
					0.45	209.55		MADE GROUND: Dark grey very clayey gravelly sand. Gravel is subrounded to angular fine to coarse quartzite, brick and coal.
					0.50	209.50		MADE GROUND: Orangish brown and brown very clayey slightly gravelly sand. Gravel is subangular to angular fine to coarse sandstone, coal and ceramic fragments.
					0.70	209.30		Firm orangish brown very sandy gravelly CLAY wi h occasional cobble. Gravel is subangular to angular fine to coarse sandstone.
		1.00	SPT	N=2 (2,1/1,1,0,0)				(SOFT BED FLAGS)
								Loose orangish brown and brown slightly clayey very gravelly SAND with occasional pocket of sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone.
								(SOFT BED FLAGS)
		1.90	D2					
		2.00	SPT	N=3 (2,0/0,0,1,2)				
					2.30	207.70		Soft orangish brown and brown very sandy gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone.
		2.50	D3					(SOFT BED FLAGS)
	▼				2.60	207.40		Orangish brown and brown slightly clayey very gravelly SAND. Gravel is subangular to angular fine to coarse sandstone.
								(SOFT BED FLAGS)
		3.00	SPT	N=10 (3,3/3,2,2,3)	3.00	207.00		Brown SANDSTONE recovered as slightly sandy gravel of sandstone.
								(SOFT BED FLAGS)
		4.00	SPT	N=4 (3,2/1,1,1,1)				
		4.45	SPT	50 (3,18/50 for 215mm)				
					4.90	205.10		End of Borehole at 4 90 m
			Type	Results				

Remarks: Groundwater encountered at approximately 2.8 m during drilling.
Soil-gas and groundwater monitoring point installed on completion.

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Borehole No. **WS3** Sheet 1 of 2

Project Name	**Project No.**	**Co-ords:**	**Hole Type**
Thomas Street, Lindley	22052	411646.00 E 418300.00 N	WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 210.60 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND: Light brown and light grey sandy gravel.
		0.35	D1		0.30	210.30		
					0.40	210.20		MADE GROUND: Dark grey very clayey sand with occasional gravel of sandstone and coal.
					0.50	210.10		MADE GROUND: Light brownish grey and sandy subangular to angular fine to coarse gravel of sandstone.
					0.55	210.05		MADE GROUND: Soft to firm brown and reddish brown sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal.
								MADE GROUND: Loose to medium dense light brownish grey and sandy subangular to angular fine to coarse gravel of sandstone.
		1.00	SPT	N=11 (2,4/2,3,4,2)				
		2.00	SPT	N=7 (5,3/2,2,1,2)				
					2.50	208.10		MADE GROUND: Soft to firm orangish brown, dark brown and dark grey sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal. No recovery below 3.0 m begl.
		2.80	D2					
		3.00	SPT	N=8 (2,2/2,2,2,2)				
		3.45	SPT	N=8 (2,1/2,2,2,2)				
		3.90	SPT	N=8 (2,2/2,2,2,2)				
		4.35	SPT	N=7 (1,2/1,2,2,2)				
		4.80	SPT	N=10 (2,2/2,2,3,3)				
			Type	Results				Continued next sheet

1 2 3 4

Remarks: Groundwater not encountered during drilling.
Backfilled with arisings on completion.

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Borehole No. **WS3** Sheet 2 of 2

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411646.00 E 418300.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 210.60 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.25	SPT	N=14 (3,3/3,4,4,4,3)				
		5.70	SPT	N=10 (3,3/2,2,3,3)				
					6.45	204.15		End of Borehole at 6.45 m
			Type	Results				

Remarks: Groundwater not encountered during drilling.
Backfilled with arisings on completion.

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Borehole No. WS4
Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411627.00 E 418280.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 211.30 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
					0.40	210.90		MADE GROUND: Dark brown clayey gravelly cobbly sand. Gravel and cobble is subangular to angular fine to coarse sandstone, brick and coal.
		0.50	D1					MADE GROUND: Firm dark greyish brown and dark brown silty very gravelly clay. Gravel is subangular to angular fine to coarse sandstone, brick and glass.
		1.00	SPT	N=11 (2,2/3,3,3,2)				
					1.50	209.80		MADE GROUND: Orangish brown and light grey very clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone.
					1.60	209.70		MADE GROUND: Soft to firm dark brown very sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal.
		1.90	D2					
		2.00	SPT	N=6 (2,2/1,1,2,2)				
		2.20	D3					
					2.80	208.50		Brown very clayey gravelly SAND. Gravel is subangular to angular fine to coarse sandstone.
		2.90	D4					
		3.00	SPT	50 (25 for 60mm/50 for 10mm)	3.00	208.30		(SOFT BED FLAGS)
								End of Borehole at 3.00 m

Type	Results

Remarks: Groundwater not encountered during drilling.
Drilling refusal at 3.0 m begl - possible bedrock encountered.
Soil-gas and groundwater monitoring point installed on completion.

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Borehole No. **WS5** Sheet 1 of 2

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411655.00 E 418283.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 210.80 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
					0.10	210.70		MADE GROUND: Dark brown very clayey gravelly sand. Gravel is subrounded to subangular fine to coarse quartzite and sandstone with red brick fragments.
					0.30	210.50		MADE GROUND: Grey cobble of sandstone.
					0.50	210.30		MADE GROUND: Dark brown clayey very gravelly sand with cobble of sandstone. Gravel is subrounded to subangular sandstone and brick.
		0.60	D1					MADE GROUND: Dark greyish brown silty very gravelly sand. Gravel is subrounded to subangular fine to coarse sandstone and red brick.
		1.00	SPT	N=12 (3,4/4,3,3,2)	1.00	209.80		MADE GROUND: Medium dense light orangish brown gravelly sand. Gravel is subrounded to subangular fine to coarse sandstone.
		1.50	D2		1.40	209.40		MADE GROUND: Soft dark grey and brown very sandy gravelly clay. Gravel is subangular to angular fine to coarse sandstone and coal.
		1.90	D3		1.80	209.00		Soft orangish brown and brown very sandy gravelly CLAY. Gravel is subrounded to subangular fine to coarse sandstone and coal.
		2.00	SPT	N=4 (2,1/1,1,1,1)				(SOFT BED FLAGS)
		3.00	SPT	N=6 (2,2/2,1,2,1)	3.00	207.80		Soft orangish brown and light grey very sandy CLAY with occasional sandstone gravel.
		3.50	D4					(SOFT BED FLAGS)
	▼	4.00	SPT	N=4 (1,1/1,1,1,1)	3.90	206.90		Soft dark brown very sandy very gravelly CLAY. Gravel is subrounded to angular fine to coarse sandstone and coal.
					4.20	206.60		(SOFT BED FLAGS)
								Soft dark grey very sandy very gravelly CLAY. Gravel is subrounded to angular fine to coarse sandstone and coal.
								(SOFT BED FLAGS)
		5.00	SPT	N=6 (1,1/1,1,2,2)	5.00	205.80		
			Type	Results				Continued next sheet

Remarks: Groundwater encountered at approximately 4.0 m during drilling.
Backfilled with arisings on completion.

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Borehole No. **WS5** Sheet 2 of 2

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411655.00 E 418283.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 210.80 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		6.00	SPT	N=6 (2,1/1,1,1,3)				Loose to medium dense brown and dark grey very clayey very gravelly SAND wi h pockets of clay. Gravel is subrounded to angular fine to coarse sandstone and coal. (SOFT BED FLAGS)
		6.45	SPT	N=14 (3,3/3,3,3,5)	6.45	204.35		End of Borehole at 6.45 m
			Type	Results				

Remarks: Groundwater encountered at approximately 4.0 m during drilling.
Backfilled with arisings on completion.

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Borehole No. **WS6** Sheet 1 of 1

Project Name Thomas Street, Lindley	**Project No.** 22052	**Co-ords:** 411648.00 E 418256.00 N	**Hole Type** WLS
Equipment: Dynamic Percussive Sampling Rig		**Level:** 211.30 m AOD	**Scale** 1:25
Client: Muller Property Group		**Dates:** 24-03-2022	**Logged By** RC

Well	Water Strikes	Samples & In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
					0.10	211.20		MADE GROUND: Dark brown slightly clayey gravelly sand. Gravel is subangular to angular fine to coarse sandstone.
		0.20	D1					MADE GROUND: Light brownish grey sandy gravel.
					0.50	210.80		Grey gravelly SAND. Gravel is subangular to angular fine to coarse sandstone.
					0.60	210.70		(SOFT BED FLAGS)
								Medium dense orangish brown and light grey gravelly SAND with cobble of sandstone. Gravel is subangular to angular fine to coarse sandstone.
		1.00	SPT	N=16 (2,2/3,5,4,4)				(SOFT BED FLAGS)
		1.30	D2					
		1.50	SPT	50 (6,14/50 for 210mm)	1.50	209.80		End of Borehole at 1 50 m
			Type	Results				

Remarks: Groundwater not encountered during drilling.
Drilling refusal at 1.5 m begl - possible bedrock encountered.
Backfilled with arisings on completion.

EXPLORATORY HOLE RECORD

Date: 23 March 2022	**Site: Thomas Street, Lindley, Huddersfield**
Trial Pit No. TP1	**Depth: 3.4 m begl**
Co-ords: 411642, 418258	**Equipment: JCB 3CX**

View of exposed strata and buried walls in TP1 looking north-east.

Strata Log:

G.L to 0.40 m; MADE GROUND: Light yellowish brown sandy gravel.
0.40 to 2.4 m; MADE GROUND: Greyish brown sandy cobble and boulder of sandstone and brick.
2.4 to 3.4 m; Soft brown and grey sandy gravelly CLAY. Gravel is subangular to angular fine to coarse sandstone and coal.

Groundwater not encountered during excavation.

EXPLORATORY HOLE RECORD

Date: 23 March 2022	**Site: Thomas Street, Lindley, Huddersfield**
Trial Pit No. TP5	**Depth: 3.3 m begl**
Co-ords: 411661, 418270	**Equipment: JCB 3CX**

View of exposed strata and buried walls in TP5 looking west.

Strata Log:

G.L to 0.20 m; MADE GROUND: Dark brown clayey gravelly sand. Gravel is sandstone, brick and coal.
0.20 to 0.50 m; MADE GROUND: Light grey sandy gravel.
0.50 to 2.2 m; MADE GROUND: Greyish brown clayey very sandy gravel and cobble of sandstone with brick, coal, concrete, plastic and metal.
2.2 to 3.3 m; MADE GROUND: Soft dark grey very sandy very gravelly clay. Gravel is concrete, sandstone and brick.

Groundwater seepage at approximately 3.0 m begl.

EXPLORATORY HOLE RECORD

Date: 23 March 2022	**Site: Thomas Street, Lindley, Huddersfield**
Trial Pit No. TP5	**Depth: 3.3 m begl**
Co-ords: 411661, 418270	**Equipment: JCB 3CX**

View of exposed strata and buried walls in TP5 looking east.

Strata Log:

G.L to 0.20 m; MADE GROUND: Dark brown clayey gravelly sand. Gravel is sandstone, brick and coal.
0.20 to 0.50 m; MADE GROUND: Light grey sandy gravel.
0.50 to 2.2 m; MADE GROUND: Greyish brown clayey very sandy gravel and cobble of sandstone with brick, coal, concrete, plastic and metal.
2.2 to 3.3 m; MADE GROUND: Soft dark grey very sandy very gravelly clay. Gravel is concrete, sandstone and brick.

Groundwater seepage at approximately 3.0 m begl.

EXPLORATORY HOLE RECORD

Date: 23 March 2022	**Site: Thomas Street, Lindley, Huddersfield**
Trial Pit No. TP7	**Depth: 1.3 m begl**
Co-ords: 411666, 418278	**Equipment: JCB 3CX**

View of exposed strata and buried walls in TP5 looking west.

Strata Log:

G.L to 0.20 m; MADE GROUND: Light brown silty gravelly sand and red brick.
0.20 to 1.30 m; Light grey and orange clayey gravelly SAND. Gravel is subangular to angular fine to coarse sandstone and coal.

Groundwater not encountered during excavation.

EXPLORATORY HOLE RECORD

Date: 23 March 2022	**Site: Thomas Street, Lindley, Huddersfield**
Trial Pit No. TP7	**Depth: 1.3 m begl**
Co-ords: 411666, 418278	**Equipment: JCB 3CX**

View of exposed strata and buried walls in TP7 looking east.

Strata Log:

G.L to 0.20 m; MADE GROUND: Light brown silty gravelly sand.
0.20 to 1.30 m; MADE GROUND: Brown sandstone brick wall.

Groundwater not encountered during excavation.

APPENDIX E
SOIL-GAS AND GROUNDWATER MONITORING RESULTS

Soil-Gas and Groundwater Monitoring Results

Monitoring Visit No.	1	Date	30/03/22	Barometric Pressure (mb) -	983
Weather Conditions:		Raining		Equipment Used -	
Surface Ground Conditions:		Wet		GA5000 Gas Analyser and Solinst Dip Meter	
Ambient Concentration (% Volume):	Bal:	78.8	CH_4: 0.0	CO_2: 0.1	O_2: 21.0

Monitoring Point		Gas Concentration											Gas Flow	
		Highest					Steady					(Lowest)	Gas Flow Rate	Relative Pressure
Ref:	GWL	CH_4		CO_2	CO	H_2S	CH_4		CO_2	CO	H_2S	O_2		
	(m) bgl	% lel	% v/v	(%)	ppm	ppm	% lel	% v/v	(%)	ppm	ppm	(%)	litre/hr	mb
WS2	2.89	-	0	0.2	0	0	-	0	0.2	0	0	21.0	0.0	-0.12
WS4	Dry	-	0	0.5	0	0	-	0	0.5	0	0	20.6	0.0	0.09

Monitoring Visit No.	2	Date	13/04/22	Barometric Pressure (mb) -	988/989
Weather Conditions:		Overcast		Equipment Used -	
Surface Ground Conditions:		Damp		GA5000 Gas Analyser and Solinst Dip Meter	
Ambient Concentration (% Volume):	Bal:	79.0	CH_4: 0.0	CO_2: 0.1	O_2: 20.9

Monitoring Point		Gas Concentration											Gas Flow	
		Highest					Steady					(Lowest)	Gas Flow Rate	Relative Pressure
Ref:	GWL	CH_4		CO_2	CO	H_2S	CH_4		CO_2	CO	H_2S	O_2		
	(m) bgl	% lel	% v/v	(%)	ppm	ppm	% lel	% v/v	(%)	ppm	ppm	(%)	litre/hr	mb
WS2	Dry	-	0	0.2	0	0	-	0	0.2	0	0	20.5	0.0	0.09
WS4	Dry	-	0	1.0	0	0	-	0	1.0	0	0	19.7	0.0	0.26

Monitoring Visit No.	3	Date	27/04/22	Barometric Pressure (mb) -	1003
Weather Conditions:		Clear		Equipment Used -	
Surface Ground Conditions:		Dry		GA5000 Gas Analyser and Solinst Dip Meter	
Ambient Concentration (% Volume):	Bal:	79.1	CH_4: 0.0	CO_2: 0.1	O_2: 20.8

Monitoring Point		Gas Concentration											Gas Flow	
		Highest					Steady					(Lowest)	Gas Flow Rate	Relative Pressure
Ref:	GWL	CH_4		CO_2	CO	H_2S	CH_4		CO_2	CO	H_2S	O_2		
	(m) bgl	% lel	% v/v	(%)	ppm	ppm	% lel	% v/v	(%)	ppm	ppm	(%)	litre/hr	mb
WS2	Dry	-	0	0.2	0	0	-	0	0.2	0	0	20.4	0.0	0.07
WS4	Dry	-	0	1.2	0	0	-	0	1.2	0	0	19.5	0.0	-0.05

Monitoring Visit No.	4	Date	12/05/22	Barometric Pressure (mb) -	990
Weather Conditions:		Clear		Equipment Used -	
Surface Ground Conditions:		Dry		GA5000 Gas Analyser and Solinst Dip Meter	
Ambient Concentration (% Volume):	Bal:		CH_4:	CO_2: 0.1	O_2: 20.6

Monitoring Point		Gas Concentration											Gas Flow	
		Highest					Steady					(Lowest)	Gas Flow Rate	Relative Pressure
Ref:	GWL	CH_4		CO_2	CO	H_2S	CH_4		CO_2	CO	H_2S	O_2		
	(m) bgl	% lel	% v/v	(%)	ppm	ppm	% lel	% v/v	(%)	ppm	ppm	(%)	litre/hr	mb
WS2	Dry	-	0	0.2	0	0	-	0	0.2	0	0	20.2	0.0	-0.02
WS4	Dry	-	0	1.4	0	0	-	0	1.4	0	0	19.1	0.0	-0.10

Equipment Used: Geotechnical Instruments (GI) and Solinst	Notes
GI - GA2000 Gas Concentration/Atmospheric Pressure GI - GA2000 Borehole Gas Flow Rate/Borehole Pressure Solinst combined dip meter and interface meter - Groundwater Level (GWL)	(m) bgl - metres below ground level

	Job Title:	Job No:
georisk MANAGEMENT	Thomas Street, Huddersfield	22052
	Client:	**Table Number:**
	Muller Property Group	1

APPENDIX E
CHEMICAL TEST RESULTS

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	22-11909-1		
Initial Date of Issue:	05-Apr-2022		
Client	Georisk Management Limited		
Client Address:	Varney House 91 Spon Lane West Bromwich B70 6AB		
Contact(s):	Alex Bichard Mark Gill Rowena Cameron		
Project	22052 Thomas Street, Lindley		
Quotation No.:		**Date Received:**	30-Mar-2022
Order No.:	22052	**Date Instructed:**	30-Mar-2022
No. of Samples:	10		
Turnaround (Wkdays):	5	**Results Due:**	05-Apr-2022
Date Approved:	05-Apr-2022		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: 22052 Thomas Street, Lindley

Client: Georisk Management Limited		**Chemtest Job No.:**			22-11909	22-11909	22-11909	22-11909	22-11909	22-11909	22-11909	22-11909
Quotation No.:		**Chemtest Sample ID.:**			1401388	1401389	1401390	1401391	1401392	1401393	1401394	1401395
		Sample Location:			WS1	WS2	WS3	WS4	WS6	TP7	TP7	WS2
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.5	0.4	0.35	0.5	0.2	0.1	1.2	1.9
		Date Sampled:			24-Mar-2022	24-Mar-2022	24-Mar-2022	24-Mar-2022	24-Mar-2022	24-Mar-2022	24-Mar-2022	24-Mar-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	F bres/Clumps	-	-	-	-	-		
Asbestos Identification	U	2192		N/A	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		
Asbestos by Gravimetry	U	2192	%	0.001	0.002							
Total Asbestos	U	2192	%	0.001	0.002							
Moisture	N	2030	%	0.020	14	10	14	10	3.8	8.3	10	12
Stones and Removed Materials	N	2030	%	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		
pH	U	2010		4.0	9.0	9.2	9.1	9.1	9.2	8.7	8.6	8.9
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.50	< 0.40	0.87	< 0.40	0.88		
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	0.038	0.051	0.019	0.090	< 0.010	1.6	0.13	0.049
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
Arsenic	U	2450	mg/kg	1.0	6.3	12	7.1	25	21	22		
Cadmium	U	2450	mg/kg	0.10	0.19	0.77	0.46	0.40	2.2	0.94		
Chromium	U	2450	mg/kg	1.0	9.9	21	13	49	4.0	76		
Copper	U	2450	mg/kg	0.50	14	35	24	77	27	21		
Mercury	U	2450	mg/kg	0.10	0.10	0.15	< 0.10	0.35	0.13	1.0		
Nickel	U	2450	mg/kg	0.50	9.4	19	14	42	6.0	16		
Lead	U	2450	mg/kg	0.50	98	75	160	360	250	170		
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		
Zinc	U	2450	mg/kg	0.50	68	120	100	180	210	120		
Naphthalene	U	2700	mg/kg	0.10	0.83	< 0.10	< 0.10	4.7	0.56	< 0.10		
Acenaphthylene	U	2700	mg/kg	0.10	0.16	< 0.10	< 0.10	0.41	0.23	< 0.10		
Acenaphthene	U	2700	mg/kg	0.10	0.22	< 0.10	< 0.10	1.8	0.10	< 0.10		
Fluorene	U	2700	mg/kg	0.10	0.21	< 0.10	< 0.10	1.6	0.15	< 0.10		
Phenanthrene	U	2700	mg/kg	0.10	1.6	< 0.10	1.8	9.4	1.5	2.1		
Anthracene	U	2700	mg/kg	0.10	0.34	< 0.10	0.33	1.9	0.46	0.57		
Fluoranthene	U	2700	mg/kg	0.10	2.5	0.24	1.3	11	1.7	2.6		
Pyrene	U	2700	mg/kg	0.10	2.6	0.34	1.7	11	1.6	2.6		
Benzo[a]anthracene	U	2700	mg/kg	0.10	1.1	< 0.10	0.68	5.1	0.91	0.97		
Chrysene	U	2700	mg/kg	0.10	1.8	< 0.10	1.3	7.2	1.5	2.2		
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	1.5	< 0.10	0.76	5.6	0.79	1.1		
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	0.97	< 0.10	0.51	2.8	0.63	0.86		
Benzo[a]pyrene	U	2700	mg/kg	0.10	1.3	< 0.10	0.57	5.0	0.76	0.93		
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	0.77	< 0.10	< 0.10	2.6	0.45	< 0.10		
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	0.37	< 0.10	< 0.10	1.1	0.37	< 0.10		
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	0.72	< 0.10	< 0.10	2.4	0.79	< 0.10		
Total Of 16 PAH's	U	2700	mg/kg	2.0	17	< 2.0	8.8	74	13	14		
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		

Results - Soil

Project: 22052 Thomas Street, Lindley

Client: Georisk Management Limited			**Chemtest Job No.:**		22-11909	22-11909
Quotation No.:			**Chemtest Sample ID.:**		1401396	1401397
			Sample Location:		WS4	WS6
			Sample Type:		SOIL	SOIL
			Top Depth (m):		2.2	1.3
			Date Sampled:		24-Mar-2022	24-Mar-2022
			Asbestos Lab:			
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A		
Asbestos Identification	U	2192		N/A		
Asbestos by Gravimetry	U	2192	%	0.001		
Total Asbestos	U	2192	%	0.001		
Moisture	N	2030	%	0.020	16	7.5
Stones and Removed Materials	N	2030	%	0.020		
pH	U	2010		4.0	8.9	9.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40		
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	0.057	0.017
Cyanide (Total)	U	2300	mg/kg	0.50		
Arsenic	U	2450	mg/kg	1.0		
Cadmium	U	2450	mg/kg	0.10		
Chromium	U	2450	mg/kg	1.0		
Copper	U	2450	mg/kg	0.50		
Mercury	U	2450	mg/kg	0.10		
Nickel	U	2450	mg/kg	0.50		
Lead	U	2450	mg/kg	0.50		
Selenium	U	2450	mg/kg	0.20		
Zinc	U	2450	mg/kg	0.50		
Naphthalene	U	2700	mg/kg	0.10		
Acenaphthylene	U	2700	mg/kg	0.10		
Acenaphthene	U	2700	mg/kg	0.10		
Fluorene	U	2700	mg/kg	0.10		
Phenanthrene	U	2700	mg/kg	0.10		
Anthracene	U	2700	mg/kg	0.10		
Fluoranthene	U	2700	mg/kg	0.10		
Pyrene	U	2700	mg/kg	0.10		
Benzo[a]anthracene	U	2700	mg/kg	0.10		
Chrysene	U	2700	mg/kg	0.10		
Benzo[b]fluoranthene	U	2700	mg/kg	0.10		
Benzo[k]fluoranthene	U	2700	mg/kg	0.10		
Benzo[a]pyrene	U	2700	mg/kg	0.10		
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10		
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10		
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10		
Total Of 16 PAH's	U	2700	mg/kg	2.0		
Total Phenols	U	2920	mg/kg	0.10		

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Al kaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

APPENDIX F
GEOTECHNICAL TEST RESULTS

SOCOTEC UK Limited
SOCOTEC Central
Leofric Business Park
Progress Close
Coventry
West Midlands
CV3 2TF
Telephone: +44 (0) 2475 310700

SOCOTEC

UKAS TESTING
0001

TEST REPORT

Moisture Content, Liquid and Plastic Limits and Plasticity Indices

Report No:	**51068692/22/01**	**Report Date:**	**12/04/2022**
Client:	Georisk Management	Our Contract Ref:	DAM0086110
Address:	Varney House	Tested By:	SOCOTEC Central
	91 Spon Lane	Client Reference:	Sample 1 to Sample 7
	West Bromwich	Date Sampled:	24/03/2022
	GB	Date Received:	04/04/2022
	B70 6AB	Date Tested:	06/04/2022
Contact:	Not Advised		
Site:	**22052 - Thomas Street, Lindley**	Type of Sample:	Bulk
		Sampling Certificate:	Not Received
Preparation Method:	BS1377-1:1990 7.4.3 & BS1377-2:1990 4.2.3	Sampled By:	Client

Results:

Sample Reference	Location	Depth (m)	Description	AS Received Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
45402882	TP3	1.50m	Brown Silty CLAY with Organic Material	28	45	24	21	100
45402883	TP4	1.60m	Brown/Orange Sandy Silty CLAY with Organic Material	21	40	23	17	54
45402884	TP6	1.70m	Brown/Grey Silty CLAY with Organic Material	37	56	44	12	100
45402885	WS1	2.70m	Brown/Grey Silty CLAY with Organic Material	27	34	22	12	72
45402886	WS3	2.80m	Brown Silty CLAY with Organic Material	24	35	21	14	48
45402887	WS4	1.90m	Brown/Orange Silty CLAY with Organic Material	17	39	23	16	73
45402888	WS5	1.90m	Brown Silty Sandy CLAY	14	33	20	13	55

As Received
***Washed over 425µm BS Test Sieve**
****Actual % passing 425µm BS Test Sieve from separate grading analysis**

Certified that the Liquid and Plastic Limits and Plasticity Indices were determined in accordance with BS 1377-2:1990: Clauses 4.4, 5 0 and 5.4 respectively

Ce fied that the Moisture Content was determined in accordance with BS 1377-2:1990 3.2

[ ] Maria Chandler - Laboratory Manager
[✓] Darren Berrill - General Manager

Form S1 v9 7/06

APPENDIX G
ENVIROCHECK SUPPORTING INFORMATION

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
292118796_1_1

Customer Reference:
22052

National Grid Reference:
411650, 418280

Slice:
A

Site Area (Ha):
0.25

Search Buffer (m):
1000

Site Details:

Thomas Street
Lindley
HUDDERSFIELD
HD3 3JJ

Client Details:

Mr M Gill
Georisk Management Limited
Varney House
91 Spon Lane
West Bromwich
B70 6AB

Envirocheck®
LANDMARK INFORMATION GROUP®

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				10
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 4				1
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4				7
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5			Yes	
Pollution Incidents to Controlled Waters	pg 5			1	10
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 7				6
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 8			1	7
Water Abstractions	pg 9			4	3 (*15)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 15			1	
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15			10	34

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 21			2	
Historical Landfill Sites	pg 21		1	2	3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 22				1
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 22		1	5	5
Potentially Infilled Land (Water)	pg 23		1		12
Registered Landfill Sites	pg 24			2	3
Registered Waste Transfer Sites	pg 26		1		
Registered Waste Treatment or Disposal Sites	pg 26				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 27	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 27	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 31		1	4	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 33	Yes	n/a	n/a	n/a
Mining Instability	pg 33	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 33	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 33		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 33	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 33		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 35		5	5	55
Fuel Station Entries	pg 40				3
Points of Interest - Commercial Services	pg 41				17
Points of Interest - Education and Health	pg 42				7
Points of Interest - Manufacturing and Production	pg 43		5	4	13
Points of Interest - Public Infrastructure	pg 44		3		8
Points of Interest - Recreational and Environmental	pg 45		2	2	8
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 47				1
Areas of Unadopted Green Belt	pg 47				1
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	411647 418278
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	155	1	411600 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	172	1	411550 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	199	1	411450 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	218	1	411550 418500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	230	1	411450 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	242	1	411650 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	242	1	411400 418400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	243	1	411647 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	245	1	411700 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	250	1	411600 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	266	1	411550 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	267	1	411450 418500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	268	1	411400 418450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	338	1	411900 418550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	342	1	411650 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	353	1	411750 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	376	1	411900 418600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	392	1	411650 418700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	445	1	412000 418600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	446	1	411950 418650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	480	1	412000 418650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	486	1	411950 418700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	492	1	411647 418800
1	**Discharge Consents** Operator: John Gladstone And Company Ltd Property Type: Not Given Location: Wellington Mills, HUDDERSFIELD, West Yorkshire Authority: Environment Agency, North East Region Catchment Area: Aire And Calder Navigation Reference: WR62 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Cooling Water Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8NE (S)	597	2	411650 417650
2	**Discharge Consents** Operator: David Broster Property Type: Mixed Farming Location: Scarr View Farm, Lindley Moor, HUDDERSFIELD, West Yorkshire, KD3 3SZ Authority: Environment Agency, North East Region Catchment Area: Aire And Calder Navigation Reference: 2008 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Hollins Hey Clough To Calder **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	622	2	411050 418550
3	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Burn Road Cso Burn Road, Birchencliffe, Huddersfield, West Yorkshire, Hd3 3dt Authority: Environment Agency, North East Region Catchment Area: Calder Reference: 1896 Permit Version: 3 Effective Date: 20th November 2017 Issued Date: 20th November 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Grimescar Dike **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	688	2	412030 418890
3	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Burn Road Cso Burn Road, Birchencliffe, Huddersfield, West Yorkshire, Hd3 3dt Authority: Environment Agency, North East Region Catchment Area: Calder Reference: 1896 Permit Version: 2 Effective Date: 10th September 2012 Issued Date: 10th September 2012 Revocation Date: 19th November 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Grimescar Dike **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	688	2	412030 418890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Burn Road Cso Burn Road, Birchencliffe, Huddersfield, West Yorkshire, Hd3 3dt Authority: Environment Agency, North East Region Catchment Area: Calder Reference: 1896 Permit Version: 1 Effective Date: 1st May 1965 Issued Date: 1st May 1965 Revocation Date: 9th September 2012 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Grimescar Dike **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	688	2	412030 418890
4	**Discharge Consents** Operator: Harron Homes Limited Property Type: GROUNDWATER REMEDIATION SITES/CIVIL ENGINEERING Location: Site 2 Oaklands Heath, Burn Road, Birchencliffe, Huddersfield, Hd3 3bt Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: Eprhb3496ns Permit Version: 1 Effective Date: 9th March 2018 Issued Date: 9th March 2018 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Grimescar Dike **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	822	2	412267 418866
5	**Discharge Consents** Operator: Taylor Wimpey Uk Limited Property Type: CONSTRUCTION OF BUILDINGS Location: Crosland Road Phase 2, Lindley Moor, Huddersfield, West Yorkshire, Hd3 3su Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: Eprnb3097az Permit Version: 1 Effective Date: 21st June 2019 Issued Date: 21st June 2019 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Grimescar Dike **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	911	2	410778 418648
5	**Discharge Consents** Operator: Harron Homes Limited Property Type: CONSTRUCTION OF BUILDINGS Location: Farriers Croft Crosland Road, Lindley Moor, Huddersfield, West Yorkshire, Hd3 3su Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: Eprdb3997nh Permit Version: 1 Effective Date: 27th June 2016 Issued Date: 27th June 2016 Revocation Date: 19th June 2020 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Sw Drain To Grimescar Dike **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	911	2	410778 418648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Harron Homes Limited Property Type: GROUNDWATER REMEDIATION SITES/CIVIL ENGINEERING Location: Site 1 Oaklands Heath, Burn Road, Birchencliffe, Huddersfield, Hd3 3bt Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: Eprhb3496rx Permit Version: 1 Effective Date: 9th March 2018 Issued Date: 9th March 2018 Revocation Date: 19th June 2020 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib Of Grimescar Dik **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19NW (N)	930	2	411997 419176
7	**Discharge Consents** Operator: Motorway Maintenance Depot Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North East Region Catchment Area: Not Given Reference: 44290002 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 10th January 1985 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	930	2	411400 419200
8	**Integrated Pollution Controls** Name: Joseph Sykes Brothers Ltd Location: Acre Street, HUDDERSFIELD, HD3 3EB Authority: Environment Agency, North East Region Permit Reference: AI2392 Dated: 17th March 1993 Process Type: Application since found to be exempt from IPC Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry **Status: Application since found to be exempt from IPC** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	694	2	412047 417676
9	**Local Authority Pollution Prevention and Controls** Name: Monza Service Station Location: Halifax Road, Birchencliffe , Huddersfield, HD3 Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Epa W 129 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Not Supplied** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	551	3	412152 418565
10	**Local Authority Pollution Prevention and Controls** Name: Paul Wood T/A Plover Garage Location: Plover Road, Lindley, HUDDERSFIELD, West Yorkshire, HD3 3HS Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Ppc W 121 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Not Supplied** Positional Accuracy: Automatically positioned to the address	A8NE (S)	566	3	411692 417685
11	**Local Authority Pollution Prevention and Controls** Name: Birchencliffe Service Station Location: Halifax Road, HUDDERSFIELD, West Yorkshire, HD3 3BX Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC W 119 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A18SE (N)	592	3	411866 418864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Local Authority Pollution Prevention and Controls** Name: Decorative Panels Components Ltd Location: Crosland Road, Oakes, Huddersfield , Hd3 3pa Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Ppc W 10 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	596	3	411403 417696
13	**Local Authority Pollution Prevention and Controls** Name: Salendine Auto Services Location: New Hey Road, Oakes, Huddersfield, HD3 4BU Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC W 191 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	666	3	411535 417588
14	**Local Authority Pollution Prevention and Controls** Name: Joseph Sykes Brothers Ltd Location: Acre Street, LINDLEY, HUDDERSFIELD, West Yorkshire, HD3 3EB Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Epa W 36 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/2 Hot dip galvanising processes **Status: Not Supplied** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	694	3	412047 417676
15	**Local Authority Pollution Prevention and Controls** Name: Reinwood Service Station Location: New Hey Road, Huddersfield , Hd3 4bu Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC W 142 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	744	3	411724 417509
	Nearest Surface Water Feature	A13NW (N)	251	-	411614 418554
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lindly, HUDDERSFIELD Authority: Environment Agency, North East Region Pollutant: Not Given Note: No Pollution Found; 11-20 Fish Killed Incident Date: 22nd August 1996 Incident Reference: SL960941 Catchment Area: Calder Tributaries Receiving Water: Pond/Lake Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A8NE (S)	354	2	411700 417900
17	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: Mouth/Huddersfld Colne Afl Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 21st July 1990 Incident Reference: 112992 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	596	2	412000 418800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: New Hey Road Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 5th March 1989 Incident Reference: 8667 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	777	2	411200 417600
19	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Water Distribution System Location: Mouth/Huddersfld Colne Afl Authority: Environment Agency, North East Region Pollutant: Process Water Note: Not Supplied Incident Date: 21st July 1990 Incident Reference: 112990 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	894	2	411600 419200
20	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Huddersfld/Source Colne Afu Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 13th August 1993 Incident Reference: 146821 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	903	2	411800 419200
21	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Mouth/Todmorden Calder Afl Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 22nd May 1990 Incident Reference: 110807 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	905	2	412100 419100
22	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: 4 Inglewood Avenue, HUDDERSFIELD, HD2 2DS Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: No Fish Killed Incident Date: 11th May 1996 Incident Reference: SL960530 Catchment Area: Calder Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	949	2	412600 418495
22	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: 4 Inglewood Avenue, HUDDERSFIELD, HD2 2DS Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: Pollution Found; No Fish Killed Incident Date: 11th May 1996 Incident Reference: SL960530 Catchment Area: Calder Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	950	2	412600 418500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Mouth/Source Cragg Brook Af Authority: Environment Agency, North East Region Pollutant: Mining Water Note: Not Supplied Incident Date: 28th February 1991 Incident Reference: 120051 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A23SW (N)	989	2	411600 419295
23	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Mouth/Huddersfld Colne Afl Authority: Environment Agency, North East Region Pollutant: Mining Water Note: Not Supplied Incident Date: 28th February 1991 Incident Reference: 120052 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A23SW (N)	994	2	411600 419300
24	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Mouth/Huddersfld Colne Afl Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 8th November 1993 Incident Reference: 148675 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A23SE (N)	993	2	411700 419300
25	**Registered Radioactive Substances** Name: Calderdale & Huddersfield Nhs Foundation Trust Location: Huddersfield Royal Infimary, Acre Street, Lindley, Huddersfield, Hd3 3ea Authority: Environment Agency, North East Region Permit Reference: Bw0690 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	697	2	412037 417667
26	**Registered Radioactive Substances** Name: Calderdale And Huddersfield Nhs Trust (Huddersfield Royal Infirmary) Location: Acre Street, HUDDERSFIELD, West Yorkshire, HD3 3EA Authority: Environment Agency, North East Region Permit Reference: AQ9685 Dated: 12th September 1995 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Unknown	A9NW (SE)	798	2	412206 417665
26	**Registered Radioactive Substances** Name: Calderdale And Huddersfield Nhs Trust (Huddersfield Royal Infirmary) Location: Acre Street, HUDDERSFIELD, West Yorkshire, HD3 3EA Authority: Environment Agency, North East Region Permit Reference: AC0109 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Unknown	A9NW (SE)	801	2	412211 417665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Registered Radioactive Substances** Name: Calderdale And Huddersfield Nhs Trust (Huddersfield Royal Infirmary) Location: Acre Street, HUDDERSFIELD, West Yorkshire, HD3 3EA Authority: Environment Agency, North East Region Permit Reference: AM3251 Dated: 18th March 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Unknown	A9NW (SE)	806	2	412206 417655
26	**Registered Radioactive Substances** Name: Calderdale And Huddersfield Nhs Trust (Huddersfield Royal Infirmary) Location: Acre Street, Huddersfield, West Yorkshire, HD3 3EA Authority: Environment Agency, North East Region Permit Reference: Bw5314 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	807	2	412236 417681
26	**Registered Radioactive Substances** Name: Calderdale & Huddersfield Nhs Foundation Trust Location: Huddersfield Royal Infimary, Acre Street, Lindley, Huddersfield, Hd3 3ea Authority: Environment Agency, North East Region Permit Reference: Bw0703 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	807	2	412236 417680
27	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 8th February 2018 Incident Reference: 1586591 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A12NE (NW)	452	2	411232 418530
28	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 22nd November 2013 Incident Reference: 1178050 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A18SW (NW)	564	2	411401 418813
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 22nd December 2015 Incident Reference: 1396165 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A12NW (W)	879	2	410781 418567
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 20th November 2015 Incident Reference: 1389399 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A12NW (W)	893	2	410759 418543
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 30th November 2015 Incident Reference: 1391148 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A12NW (W)	904	2	410762 418588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 14th December 2015 Incident Reference: 1394444 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A17SW (NW)	912	2	410791 418680
31	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 1st November 2006 Incident Reference: 447600 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Backwash Effluent	A19NW (NE)	937	2	412297 418999
32	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 11th September 2007 Incident Reference: 530479 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids Pollutant: Crude Sewage Pollutant: Specific Waste MaterialsInorganic Chemical Wastes	A19NW (NE)	938	2	412217 419065
33	**Water Abstractions** Operator: Calderdale & Huddersfield Nhs Trust Licence Number: 2/27/11/058 Permit Version: 101 Location: Spring - Lindley Authority: Environment Agency, North East Region Abstraction: Metal: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Acre Mills, Lindley, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	417	2	411400 417900
33	**Water Abstractions** Operator: Calderdale & Huddersfield Nhs Trust Licence Number: 2/27/11/058 Permit Version: 101 Location: Spring - Lindley Authority: Environment Agency, North East Region Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Acre Mills, Lindley, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	417	2	411400 417900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Water Abstractions** Operator: Joseph Sykes Brothers Licence Number: 2/27/11/058 Permit Version: 100 Location: Spring - Lindley Authority: Environment Agency, North East Region Abstraction: Metal: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 65 Yearly Rate (m3): 24094 Details: Acre Mills, Lindley, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	417	2	411400 417900
33	**Water Abstractions** Operator: Joseph Sykes Brothers Licence Number: 2/27/11/058 Permit Version: 100 Location: Spring - Lindley Authority: Environment Agency, North East Region Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Acre Mills, Lindley, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	417	2	411400 417900
34	**Water Abstractions** Operator: John Gladstone & Company Limited Licence Number: 2/27/10/120 Permit Version: 100 Location: Borehole Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 60 Yearly Rate (m3): 15000 Details: Wellington Mills, Lindley, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st January 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SW (S)	648	2	411600 417600
35	**Water Abstractions** Operator: B Crosland & Sons Ltd Licence Number: 2/27/11/001 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 59 Yearly Rate (m3): 11360 Details: Coal Measures Licence Lapsed Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	794	2	411900 417500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Water Abstractions** Operator: T E Newsholme Ltd Licence Number: 2/27/11/186 Permit Version: 1 Location: Borehole - Millstone Grit- Oakes Authority: Environment Agency, North East Region Abstraction: Food And Drink: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Area Of Land At New Hay Road, Oakes, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	883	2	411940 417420
	Water Abstractions Operator: Mr J Bairstow Licence Number: 2/27/12/191 Permit Version: 100 Location: Spring - Holywell Green Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3 Yearly Rate (m3): 1032 Details: Cop Riding Farm, Holywell Green Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (NW)	1484	2	410250 418870
	Water Abstractions Operator: Joseph Hoyle & Son Ltd Licence Number: 2/27/11/118 Permit Version: Not Supplied Location: Prospect Mills, Longwood, HUDDERSFIELD Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2728 Yearly Rate (m3): 681900 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1669	2	410800 416800
	Water Abstractions Operator: Hadenfayre Ltd Licence Number: 2/27/11/061 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 909 Yearly Rate (m3): 227271 Details: Licence Lapsed Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1824	2	410300 417000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Parkwood Mills Co Ltd Licence Number: 2/27/11/115 Permit Version: 101 Location: Clay Wood Brook/Oakscar Reservoir Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Parkwood Mills, Longwood, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1SE (SW)	1825	2	410400 416900
	Water Abstractions Operator: Parkwood Mills Co Ltd Licence Number: 2/27/11/115 Permit Version: 100 Location: Clay Wood Brook/Oakscar Reservoir Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1364 Yearly Rate (m3): 340950 Details: Parkwood Mills, Longwood, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1SE (SW)	1825	2	410400 416900
	Water Abstractions Operator: Wooltex Uk Ltd Licence Number: Ne/027/0011/018 Permit Version: 3 Location: Borehole - Coal Measures - Woodland Mill Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th July 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1833	2	411097 416494
	Water Abstractions Operator: Wooltex Uk Ltd Licence Number: Ne/027/0011/018 Permit Version: 2 Location: Borehole - Coal Measures - Woodland Mill Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1833	2	411097 416494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Wooltex Uk Ltd Licence Number: Ne/027/0011/018 Permit Version: 1 Location: Borehole - Coal Measures - Woodland Mill Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 24th October 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1833	2	411097 416494
	Water Abstractions Operator: Parkwood Mills Co Ltd Licence Number: 2/27/11/123 Permit Version: 102 Location: Clay Wood Brook-Parkwood Road-Longwood Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Parkwood Mills, Longwood, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SE (SW)	1865	2	410330 416910
	Water Abstractions Operator: The Trustees Of Rishworth School Licence Number: 2/27/12/056 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Unclassified (Other) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 377 Yearly Rate (m3): 1327 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1879	2	413500 417800
	Water Abstractions Operator: Eddie & Bessie E Firth & Jacqueline M & John G Walker Licence Number: 2/27/11/169 Permit Version: 100 Location: Tributary Of Longwood Brook Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 350 Yearly Rate (m3): 20000 Details: Cliffe End Mills, Dale Street, Longwood, Huddersfield Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 20th April 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1961	2	411400 416300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Eddie & Bessie E Firth & Jacqueline M & John G Walker Licence Number: 2/27/11/169 Permit Version: 100 Location: Tributary Of Longwood Brook Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cliffe End Mills, Dale Street, Longwood, Huddersfield Authorised Start: 01 October Authorised End: 31 March Permit Start Date: 20th April 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1961	2	411400 416300
	Water Abstractions Operator: Huddersfield Golf Club Ltd Licence Number: 2/27/11/159 Permit Version: 102 Location: Borehole-Coal Measures-Huddersfield Golf Club Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Huddersfield Golf Club, Fixby Hall, Lightridge Road, Huddersfield Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 17th January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1974	2	413260 419470
	Water Abstractions Operator: Huddersfield Golf Club Ltd Licence Number: 2/27/11/159 Permit Version: 101 Location: Borehole-Coal Measures-Huddersfield Golf Club Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Huddersfield Golf Club, Fixby Hall, Lightridge Road, Huddersfield Authorised Start: 01 April Authorised End: 30 November Permit Start Date: 20th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1974	2	413260 419470
	Water Abstractions Operator: Huddersfield Golf Club Ltd Licence Number: 2/27/11/159 Permit Version: 101 Location: Borehole-Coal Measures-Huddersfield Golf Club Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Huddersfield Golf Club, Fixby Hall, Lightridge Road, Huddersfield Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 20th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1974	2	413260 419470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (W)	0	4	411647 418278
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (W)	0	4	411647 418278
	Superficial Aquifer Designations No Data Available				
37	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A18SE (N)	372	2	411706 418677
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	251	5	411614 418554
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 309.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NW (N)	252	5	411565 418541
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A13NE (N)	267	5	411656 418575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	354	5	411305 418460
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	427	5	411906 418659
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	437	5	411936 418649
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	438	5	411934 418652
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	444	5	411939 418656
46	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	450	5	411950 418655
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	454	5	411934 418673
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 269.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	538	5	411202 418635
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 193.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	539	5	411560 418837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	541	5	411196 418633
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SW (N)	543	5	411475 418818
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	550	5	411183 418630
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	552	5	411180 418629
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	560	5	411690 418867
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	560	5	411169 418629
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	565	5	411698 418872
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A17SE (NW)	578	5	411138 418617
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	579	5	411720 418884

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	585	5	411126 418610
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	587	5	411122 418608
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	596	5	411107 418601
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	600	5	411102 418599
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 257.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	605	5	412115 418712
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	613	5	411085 418597
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.7 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	627	5	411070 418598
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	630	5	411824 418917
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: Underground Permanent: False Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	667	5	411025 418601

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (N)	669	5	411889 418937
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 464.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18SE (NE)	672	5	411919 418929
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	844	5	412312 418849
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 205.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NW (N)	853	5	411424 419127
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NW (N)	854	5	411443 419133
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 627.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	869	5	412368 418818
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	872	5	412353 418843
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 872.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19NW (NE)	874	5	412111 419058
76	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 18.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A18NE (N)	888	5	411978 419138

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	904	5	412334 418914
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	910	5	412326 418932
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 2	A19SE (NE)	910	5	412327 418931
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	913	5	412327 418936
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SE (NE)	913	5	412326 418937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	**BGS Recorded Landfill Sites** Site Name: Birchencliffe Tip Location: HUDDERSFIELD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: No threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A13NE (NE)	309	-	411915 418489
83	**BGS Recorded Landfill Sites** Site Name: Birchencliffe Hill Rd Location: HUDDERSFIELD, West Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Potential threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A18SE (N)	310	-	411660 418618
84	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Huddersfield, West Yorkshire Name: Birchencliffe Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD30202 First Input Date: 31st December 1961 Last Input Date: 31st December 1974 Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1035 Other Ref: Not Supplied	A13NW (NW)	179	2	411548 418457
85	**Historical Landfill Sites** Licence Holder: Hopkinsons Limited Location: Huddersfield, West Yorkshire Name: Hopkinsons Tip Operator Location: Britannia Works, Birkby, Huddersfield Boundary Accuracy: As Supplied Provider Reference: EAHLD30229 First Input Date: 31st December 1942 Last Input Date: 27th April 1979 Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0769 BGS Ref: 1462 Other Ref: 4700/WDL0086	A13NE (NE)	311	2	411916 418490
86	**Historical Landfill Sites** Licence Holder: Kirklees Metropolitan Borough Council Location: Halifax Road, Birchencliffe, Huddersfield Name: Hopkinsons Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04217 First Input Date: 31st December 1985 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0794 BGS Ref: Not Supplied Other Ref: 4700/0514, WD/L514	A13NE (NE)	339	2	411898 418553

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Historical Landfill Sites** Licence Holder: M Bevilacqua Limited Location: Birchencliffe, Huddersfield Name: Halifax Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04214 First Input Date: 31st December 1981 Last Input Date: 31st December 1988 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0787 BGS Ref: Not Supplied Other Ref: 4700/0293	A18SE (N)	510	2	411808 418797
88	**Historical Landfill Sites** Licence Holder: Brian Bray Builders Limited Location: Halifax Road, Birchencliffe, Huddersfield Name: Prince Royd Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04174 First Input Date: 31st December 1983 Last Input Date: 31st December 1993 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0810 BGS Ref: Not Supplied Other Ref: 4700/0366	A18SE (NE)	511	2	411984 418705
89	**Historical Landfill Sites** Licence Holder: M B OToole Location: Edgerton Name: Buckden Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04173 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 4700/0681, 4700/0185	A14SE (SE)	833	2	412447 417941
90	**Licensed Waste Management Facilities (Locations)** Licence Number: 61031 Location: Acre Mills, Acre Street, Lindley, Huddersfield, West Yorkshire, HD3 3EB Operator Name: Joseph Sykes Brothers Limited Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: In-house Storage Facilities **Licence Status: Surrendered** Issued: 21st December 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 4th June 2004 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (S)	613	2	411836 417669
	Local Authority Landfill Coverage Name: Kirklees Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	411647 418278
	Local Authority Landfill Coverage Name: Calderdale Metropolitan Borough Council - Has supplied landfill data		989	7	411465 419277
91	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A13NW (W)	49	-	411567 418290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A13NE (NE)	330	-	411915 418523
93	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A18SE (N)	342	-	411698 418648
94	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A12SE (W)	349	-	411269 418255
95	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A12NE (NW)	450	-	411298 418609
96	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A12NE (NW)	499	-	411214 418586
97	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A19NW (NE)	799	-	412010 419028
98	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A19NW (NE)	865	-	412042 419086
99	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A18NE (N)	871	-	411827 419163
100	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A18NE (N)	878	-	411793 419176
101	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A23SE (N)	989	-	411712 419296
102	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (N)	249	-	411583 418544
103	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8NE (S)	503	-	411781 417768
104	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (S)	562	-	411495 417702
105	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	636	-	411200 418773
106	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SW (S)	671	-	411546 417582
107	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1948	A8NE (S)	683	-	411885 417613
108	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SW (S)	684	-	411467 417583
109	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1854	A8SE (S)	717	-	411703 417534

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1948	A8SE (S)	793	-	411824 417478
111	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1854	A8SW (S)	801	-	411392 417483
112	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1854	A8SW (S)	856	-	411464 417408
113	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NE (E)	922	-	412590 418411
114	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SE (S)	924	-	411790 417337
115	**Registered Landfill Sites** Licence Holder: Kirkless M.D.C. Licence Reference: 514 Site Location: Hopkinsons Tip, Halifax Road, Birchencliffe, Huddersfield, West Yorkshire Licence Easting: 412000 Licence Northing: 418600 Operator Location: PO Box 95, Civic Centre, HUDDERSFIELD, West Yorkshire, HD1 2NA Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1985 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials $ Prohibited Waste: Liable To Cause Enviromental Hazards Poisonous, Noxious, Polluting Wastes	A14NW (NE)	445	2	412000 418600
115	**Registered Landfill Sites** Licence Holder: Hopkinsons Ltd Licence Reference: 86 Site Location: Prince Royd., Halifax Road, Birchencliffe, Huddersfield, West Yorkshire Licence Easting: 412000 Licence Northing: 418600 Operator Location: Britannia Works, Birkby, HUDDERSFIELD, West Yorkshire, HD2 2UR Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 20th December 1978 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert,Incomb.Non-Putresc. Com./Ind.Was Prohibited Waste: Notifiable Wastes	A14NW (NE)	445	2	412000 418600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	**Registered Landfill Sites** Licence Holder: M Bevilacqua Ltd Licence Reference: 293 Site Location: Halifax Road, Birchencliffe, Huddersfield, West Yorkshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 3rd December 1981 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials $ Prohibited Waste: Poisonous, Noxious, Polluting Wastes	A18SE (N)	521	2	411815 418806
117	**Registered Landfill Sites** Licence Holder: Brian Bray (Builders) Ltd Licence Reference: 366 Site Location: Prince Royd, Halifax Road, Birchencliffe, Huddersfield, West Yorkshire Licence Easting: 412100 Licence Northing: 418700 Operator Location: 2 Westward Croft, Birchencliffe, Huddersfield, West Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Excavation Waste Max.Waste Permitted By Licence Prohibited Waste: Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes	A19SW (NE)	586	2	412100 418700
118	**Registered Landfill Sites** Licence Holder: B O' Toole Licence Reference: 681 Site Location: Buckden Road, Edgerton, Huddersfield, West Yorkshire Licence Easting: 412490 Licence Northing: 417940 Operator Location: 4 St Peters Street, Huddersfield, West Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1988 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavation Waste Solid, Inert Constr'N/Demol. Waste Prohibited Waste: Liable To Cause Environmental Hazards Poisonous, Noxious, Polluting Wastes Putrescible Waste	A14SE (E)	874	2	412490 417940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**Registered Waste Transfer Sites** Licence Holder: Yorkshire Electricity Licence Reference: 1132 Site Location: Brian Street, Lindley, Huddersfield, West Yorkshire Operator Location: Po Box 89, Parry Lane, Bradford, West Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1996 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Cable Jointing Compound Ferrous Metal Scrap Max.Storage In Licence Max.Waste Permitted By Licence Plant Mat'L (Tree/Grass Guttings) Scrap Cable Storage Radiators Uncontam. Earth/Excav'N Waste Waste Oil Prohibited Waste: Liable To Cause Environmental Hazards Poisonous, Noxious And Polluting N.O.S Waste N.O.S.	A13SW (W)	171	2	411450 418250
120	**Registered Waste Treatment or Disposal Sites** Licence Holder: Joseph Sykes Brothers Ltd Licence Reference: 1099 Site Location: Acre Mills, Acre Street, Lindley, Huddersfield, West Yorkshire Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Storage Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Licence Status: Operational as far as is knownOperational Dated: 1st December 1995 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Copper Sulphate Max.Storage In Licence Max.Waste Permitted By Licence Spent Chromic Acid Spent Hydrochloric Acid Trichloroethylene Prohibited Waste: Waste N.O.S.	A8NE (SE)	606	2	411900 417700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NW (W)	0	1	411647 418278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	0	1	411647 418278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	116	1	411500 418278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	126	1	411523 418181
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	136	1	411500 418211
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (N)	170	1	411603 418468
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (NW)	190	1	411500 418442

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	247	1	411647 418000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	260	1	411551 418000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	280	1	411500 418000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	325	1	411565 418617
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	330	1	412000 418344
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	337	1	411500 417937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	365	1	411728 418667
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NE (W)	517	1	411136 418482
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NE (NW)	517	1	411143 418500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	678	1	411000 418000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (SW)	683	1	411330 417634
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	703	1	411310 418924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	719	1	411764 419019
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	781	1	411672 419089
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SW (S)	821	1	411500 417436
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17SE (NW)	827	1	411000 418843
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	840	1	411000 417693
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	861	1	411006 418898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	863	1	412500 418000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	864	1	411000 418896
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	869	1	411260 417460
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	941	1	411000 417549
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	1000	1	411015 419090
121	**BGS Recorded Mineral Sites** Site Name: Lindley Location: Lindley, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 91255 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Soft Bed Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (W)	43	1	411573 418292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**BGS Recorded Mineral Sites** Site Name: Birchencliffe Brick Works Location: Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13866 Type: Opencast **Status: Ceased** Operator: Huddersfield Brick & Tile & Stone Co. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (N)	409	1	411705 418715
123	**BGS Recorded Mineral Sites** Site Name: Weather Hill Quarries Location: Weather Hill, Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 190899 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Soft Bed Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	439	1	411300 418596
123	**BGS Recorded Mineral Sites** Site Name: Weather Hill Quarries Location: Weather Hill, Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 91229 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Soft Bed Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	1	411302 418618
124	**BGS Recorded Mineral Sites** Site Name: Birchencliffe Brick & Tile Works Location: Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13867 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	452	1	412001 418609
125	**BGS Recorded Mineral Sites** Site Name: Weather Hill Quarries Location: Weather Hill, Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 91228 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Soft Bed Flags Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	504	1	411207 418585
126	**BGS Recorded Mineral Sites** Site Name: Burn Location: Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 91230 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Stanningley Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	845	1	411983 419090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	**BGS Recorded Mineral Sites** Site Name: Burn Colliery Location: Birchencliffe, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 91231 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hard Bed Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	876	1	412064 419087
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (W)	0	8	411647 418278
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (W)	0	-	411647 418278
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	112	1	411504 418287
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	170	1	411603 418468
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	174	1	411619 418476
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	192	1	411449 418184
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	201	1	411650 418508
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	112	1	411504 418287
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	170	1	411603 418468

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	126	1	411523 418181
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	170	1	411603 418468
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	411647 418278

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	**Contemporary Trade Directory Entries** Name: Sugarcraft Creations Location: 28, Lidget Street, Huddersfield, West Yorkshire, HD3 3JP Classification: Sugar Refiners & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	79	-	411750 418302
129	**Contemporary Trade Directory Entries** Name: Mgl Textile Consultants Ltd Location: 38, West Street, Huddersfield, HD3 3JT Classification: Carpets & Rugs - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	150	-	411597 418443
130	**Contemporary Trade Directory Entries** Name: U Energy Location: 31 East Street, Huddersfield, West Yorkshire, HD3 3ND Classification: Electricity Generating & Distributing Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (N)	188	-	411731 418483
130	**Contemporary Trade Directory Entries** Name: G R Booth Ltd Location: Brunswick Works, East Street, Huddersfield, HD3 3NB Classification: Tool Design, Manufacturers & Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	189	-	411731 418484
131	**Contemporary Trade Directory Entries** Name: Paul Lucker Location: East Street Mill, East Street, Huddersfield, HD3 3ND Classification: Stained Glass Designers & Producers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	230	-	411799 418494
132	**Contemporary Trade Directory Entries** Name: C M Lau Location: 22, Brecon Avenue, Huddersfield, HD3 3QF Classification: Electrical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	352	-	411343 418045
133	**Contemporary Trade Directory Entries** Name: Telecoms North Location: 23, Stanley Road, Lindley, Huddersfield, HD3 3LU Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	404	-	412073 418175
134	**Contemporary Trade Directory Entries** Name: Fosters Paint Spot Location: The Old Bakery, 90, Acre Street, Huddersfield, HD3 3EL Classification: Painting & Decorating Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	408	-	411945 417955
134	**Contemporary Trade Directory Entries** Name: The Craft Work Shop Location: 72, Acre Street, Huddersfield, HD3 3EL Classification: Work Shops **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	424	-	411959 417946
135	**Contemporary Trade Directory Entries** Name: Sloan Refrigeration Ltd Location: 67, Briarlyn Road, Huddersfield, West Yorkshire, HD3 3NW Classification: Refrigeration Equipment - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	458	-	411491 418733
136	**Contemporary Trade Directory Entries** Name: Bekaert Carding Location: Plover Road, Lindley, Huddersfield, HD3 3HT Classification: Wire Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	531	-	411773 417736
136	**Contemporary Trade Directory Entries** Name: Airotech Holdings Location: Plover Road, Lindley, Huddersfield, West Yorkshire, HD3 3HT Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	531	-	411773 417736

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	**Contemporary Trade Directory Entries** Name: Bella Cars Location: Halifax Road, HUDDERSFIELD, HD3 3BS Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	531	-	412049 418674
138	**Contemporary Trade Directory Entries** Name: Oscar Pet Foods Location: 110, Halifax Road, Huddersfield, West Yorkshire, HD3 3BS Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	537	-	411963 418754
139	**Contemporary Trade Directory Entries** Name: Country Park Foods Ltd Location: New Hey Road, HUDDERSFIELD, HD3 4BZ Classification: Meat Product Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	538	-	411475 417732
139	**Contemporary Trade Directory Entries** Name: The Pink Link Location: Crosland Road, Oakes, Huddersfield, HD3 3PA Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (S)	538	-	411475 417732
139	**Contemporary Trade Directory Entries** Name: Pennine Food Ingredients Ltd Location: Pennine Foods Ingredients Ltd, Crosland Road, Huddersfield, HD3 3PA Classification: Packaging Materials Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	561	-	411427 417724
140	**Contemporary Trade Directory Entries** Name: Airotech Holdings Ltd Location: 70 Plover Rd, Huddersfield, West Yorkshire, HD3 3HR Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8NE (S)	546	-	411690 417704
140	**Contemporary Trade Directory Entries** Name: H D M Brewing Co Location: Plover Road, Lindley, Huddersfield, HD3 3HS Classification: Brewers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	566	-	411692 417685
140	**Contemporary Trade Directory Entries** Name: Plover Motor Engineers Location: Plover Road, Huddersfield, HD3 3HS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	566	-	411692 417685
140	**Contemporary Trade Directory Entries** Name: Ccs Constant Cleaning Services Location: 101, Plover Road, Huddersfield, HD3 3PJ Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	575	-	411681 417674
141	**Contemporary Trade Directory Entries** Name: P & A Motors Location: Prince Royd Service Station, Halifax Road, Huddersfield, HD3 3BS Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A19SW (NE)	551	-	412101 418644
142	**Contemporary Trade Directory Entries** Name: My Precious Photographs Location: 110, Crosland Road, Oakes, Huddersfield, HD3 3PL Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	583	-	411062 418107
143	**Contemporary Trade Directory Entries** Name: Bay Tree Cabinets Location: Equilibrium, Lindley, Huddersfield, West Yorkshire, HD3 3HL Classification: Cabinet Makers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	584	-	411592 417664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**Contemporary Trade Directory Entries** Name: L D Cleaning Services Location: 6, Equilibrium, Lindley, Huddersfield, HD3 3HL Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	609	-	411630 417638
144	**Contemporary Trade Directory Entries** Name: Shaws Petroleum Ltd Location: Birchencliffe Service Station, Halifax Road, Huddersfield, West Yorkshire, HD3 3BX Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	592	-	411866 418864
144	**Contemporary Trade Directory Entries** Name: Monza Service Station Location: Monza Petrol Station, Halifax Road, Huddersfield, HD3 3NQ Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	601	-	411852 418878
145	**Contemporary Trade Directory Entries** Name: Woollen Spinners Huddersfield Ltd Location: Wellington Mills, 70, Plover Road, Huddersfield, HD3 3HR Classification: Knitting Yarn Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	616	-	411535 417639
146	**Contemporary Trade Directory Entries** Name: Reinwood Service Station Location: New Hey Road, Huddersfield, HD3 4BU Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	679	-	411488 417584
146	**Contemporary Trade Directory Entries** Name: Salendine Auto Services Location: New Hey Road, Huddersfield, HD3 4BU Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	679	-	411488 417584
147	**Contemporary Trade Directory Entries** Name: Printer Cartridge & Mobile Phones Location: 18, Belton Grove, Huddersfield, HD3 3RF Classification: Recycling Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	683	-	411668 418991
148	**Contemporary Trade Directory Entries** Name: Indorama Trading Ltd Location: Wellington Mills, 64 Plover Road, Huddersfield, West Yorkshire, HD3 3HR Classification: Knitting Yarn Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8SW (S)	690	-	411615 417557
148	**Contemporary Trade Directory Entries** Name: Pme Recycling Location: Tower Offices, Wellington Mills, 64, Plover Road, Huddersfield, HD3 3HR Classification: Reclaiming - Waste Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	691	-	411615 417557
148	**Contemporary Trade Directory Entries** Name: Sanderson Precision Engineering Location: Wellington Works, Plover Road, Huddersfield, HD3 3HW Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	691	-	411615 417557
148	**Contemporary Trade Directory Entries** Name: Carrington O M C Location: Wellington Mills, 70, Plover Road, HUDDERSFIELD, HD3 3HR Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	691	-	411615 417557

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**Contemporary Trade Directory Entries** Name: Ath Fabrics Ltd Location: Wellington Mills, 70, Plover Road, Huddersfield, HD3 3HR Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	691	-	411615 417557
148	**Contemporary Trade Directory Entries** Name: Solar Opportunities Ltd Location: Aegis Solutions Ltd Office 18, Heritage Exchange Wellington Mills, Plover Road, Huddersfield, HD3 3HR Classification: Electricity Generating & Distributing Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	694	-	411623 417553
148	**Contemporary Trade Directory Entries** Name: British Bacon Supplies Location: Wellington Mills, 70, Plover Road, Huddersfield, HD3 3HR Classification: Bacon & Ham Curers & Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	694	-	411623 417553
148	**Contemporary Trade Directory Entries** Name: Euro Digital Systems Location: Cadaptor Solutions Ltd, Wellington Mills, Plover Road, Huddersfield, HD3 3HR Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	694	-	411623 417553
149	**Contemporary Trade Directory Entries** Name: Oakdale Instruments Location: 37, Talbot Avenue, Huddersfield, HD3 3BQ Classification: Filtration Systems & Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	696	-	412277 417908
150	**Contemporary Trade Directory Entries** Name: Scrubbers Location: 94, Goldington Avenue, Huddersfield, HD3 3QA Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (SW)	723	-	410958 417981
151	**Contemporary Trade Directory Entries** Name: Lauffenmuehle Uk Location: 133, New Hey Road, Huddersfield, HD3 4FL Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	729	-	411549 417523
152	**Contemporary Trade Directory Entries** Name: Nick Finelli Repairs Location: 15, Warton Avenue, Huddersfield, HD3 3ZW Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	731	-	411018 418712
153	**Contemporary Trade Directory Entries** Name: North Carpet Cleaning Co Location: 37, King Street, Lindley, Huddersfield, HD3 3EZ Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	740	-	412013 417604
154	**Contemporary Trade Directory Entries** Name: Scrubbers The Cleaning Company Location: 94, Huddersfield, West Yorkshire, HD3 3QA Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	758	-	410950 417914
155	**Contemporary Trade Directory Entries** Name: Spot On Location: A, 220, Halifax Road, Huddersfield, HD3 3QL Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	785	-	411711 419091

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	**Contemporary Trade Directory Entries** Name: Fullers & Co Location: 8, Ainley Close, Huddersfield, HD3 3RJ Classification: Sewing Machines - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	788	-	411233 418980
156	**Contemporary Trade Directory Entries** Name: Fullers & Co Location: 8, Ainley Close, Huddersfield, HD3 3RJ Classification: Sewing Machines - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	788	-	411233 418980
157	**Contemporary Trade Directory Entries** Name: Simply Pvc Location: 14, Inglewood Avenue, Huddersfield, HD2 2DS Classification: Fascias and Soffits **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	793	-	412446 418469
158	**Contemporary Trade Directory Entries** Name: Calderdale & Huddersfield Nhs Foundation Trust Location: Acre Street, Huddersfield, HD3 3EA Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	807	-	412236 417680
158	**Contemporary Trade Directory Entries** Name: Huddersfield Royal Infirmary Location: Acre Street, Huddersfield, HD3 3EA Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	807	-	412236 417681
159	**Contemporary Trade Directory Entries** Name: Oakwood Doors & Spray Finishes Ltd Location: Oakes Mills West, New Hey Road, Huddersfield, HD3 4DD Classification: Door Manufacturers - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	841	-	411842 417433
159	**Contemporary Trade Directory Entries** Name: Transform Office Interiors Location: Oakes Flooring and Blinds Unit 19, Oakes Mill West, New Hey Road, Huddersfield, HD3 4DD Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	841	-	411842 417433
159	**Contemporary Trade Directory Entries** Name: Heathcote Transport Location: Oakes Mill West, New Hey Road, Huddersfield, HD3 4BY Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	861	-	411832 417410
159	**Contemporary Trade Directory Entries** Name: Wilbest Engineering Location: Oakes Mill West, New Hey Road, Huddersfield, HD3 4BY Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	861	-	411832 417410
159	**Contemporary Trade Directory Entries** Name: S & O Fabrications Ltd Location: Oakes Mill West, New Hey Road, Huddersfield, HD3 4BY Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	861	-	411832 417410
159	**Contemporary Trade Directory Entries** Name: Crownfast Location: Oakes Mills West, New Hey Road, Huddersfield, West Yorkshire, HD3 4DD Classification: Bookbinding & Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	861	-	411832 417410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	**Contemporary Trade Directory Entries** Name: O M C International (Fine Fabrics) Ltd Location: Oakes Mill, New Hey Road, Huddersfield, HD3 4BY Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	859	-	411899 417432
161	**Contemporary Trade Directory Entries** Name: Howe I D Location: 86, Oakes Road South, HUDDERSFIELD, HD3 4XT Classification: Gas Appliances - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	874	-	411647 417373
162	**Contemporary Trade Directory Entries** Name: Marsden R & Co (Wool) Ltd Location: 18, Tanyard Road, Oakes, Huddersfield, HD3 4YW Classification: Waste Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	925	-	411498 417332
163	**Contemporary Trade Directory Entries** Name: Newsholme Food Group Location: New Hey Road, Huddersfield, HD3 4BZ Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	929	-	411958 417377
163	**Contemporary Trade Directory Entries** Name: Kepak Huddersfield Ltd Location: New Hey Road, Huddersfield, HD3 4BZ Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	929	-	411958 417377
164	**Contemporary Trade Directory Entries** Name: Rehman & Sons (Yorkshire) Ltd Location: White Gables, Moor Hill Road, Huddersfield, HD3 3SL Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	958	-	410671 418138
165	**Contemporary Trade Directory Entries** Name: P J Crompton Location: 6, Mountbatten Gardens, Oakes, Huddersfield, HD3 4EG Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	963	-	411863 417312
166	**Contemporary Trade Directory Entries** Name: Esso Location: New Hey Road, Huddersfield, HD3 4DD Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	983	-	412123 417387
167	**Fuel Station Entries** Name: Monza Filling Station Location: Halifax Road , Birchencliffe , Huddersfield, West Yorkshire, HD3 3NQ Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	552	-	412153 418565
168	**Fuel Station Entries** Name: Co-Op Halifax Road Location: Halifax Road , Birchencliffe , Huddersfield, West Yorkshire, HD3 3BX Brand: Co-Op Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A18SE (N)	592	-	411866 418864
169	**Fuel Station Entries** Name: Reinwood Service Station Location: New Hey Road , Marsh , Huddersfield, West Yorkshire, HD3 4BU Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	982	-	412123 417388

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	**Points of Interest - Commercial Services** Name: The Pink Link Location: Crosland Road, Oakes, Huddersfield, HD3 3PA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	539	9	411474 417731
171	**Points of Interest - Commercial Services** Name: Plover Garage Location: Plover Road, Huddersfield, HD3 3HS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	566	9	411692 417685
172	**Points of Interest - Commercial Services** Name: Co-Op Halifax Road Location: Birchencliffe Service Station, Halifax Road, Huddersfield, HD3 3BX Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18SE (N)	592	9	411866 418864
172	**Points of Interest - Commercial Services** Name: Car Wash Location: Birchencliffe Service Station, Halifax Road, Huddersfield, HD3 3BX Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18SE (N)	592	9	411866 418864
173	**Points of Interest - Commercial Services** Name: Mobile Valeting Services Location: 92 Low Hills Lane, Huddersfield, HD3 3PQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SW (W)	661	9	410963 418193
174	**Points of Interest - Commercial Services** Name: Salendine Auto Services Location: New Hey Road, Huddersfield, HD3 4BU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	666	9	411536 417588
174	**Points of Interest - Commercial Services** Name: Salendine Auto Services Location: New Hey Road, Huddersfield, HD3 4BU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	679	9	411488 417584
175	**Points of Interest - Commercial Services** Name: P M E Recycling Ltd Location: Tower Offices Wellington Mills 64, Plover Road, Huddersfield, HD3 3HR Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A8SW (S)	691	9	411615 417557
176	**Points of Interest - Commercial Services** Name: Oaskes Mill Location: Oaks Mill, New Hey Road, Huddersfield, HD3 4DD Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8SE (S)	841	9	411842 417433
176	**Points of Interest - Commercial Services** Name: K J P Fabrications Ltd Location: Unit 5 Oakes Mills, West New Hey Road, Huddersfield, HD3 4DD Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A8SE (S)	841	9	411842 417433
176	**Points of Interest - Commercial Services** Name: Kjp Fabrication Ltd Location: Oakes Mill West, New Hey Road, Huddersfield, HD3 4BY Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A8SE (S)	861	9	411832 417410
176	**Points of Interest - Commercial Services** Name: Heathcote Transport Location: Oakes Mill West, New Hey Road, Huddersfield, HD3 4BY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	861	9	411832 417410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**Points of Interest - Commercial Services** Name: P J Crompton Location: 6 Mountbatten Gardens, Oakes, Huddersfield, HD3 4EG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	963	9	411863 417312
177	**Points of Interest - Commercial Services** Name: P J Prompton Location: 6 Mountbatten Gardens, Oakes, Huddersfield, HD3 4EG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	963	9	411863 417312
177	**Points of Interest - Commercial Services** Name: P J Crompton Location: 6 Mountbatten Gardens, Oakes, Huddersfield, HD3 4EG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	963	9	411862 417312
178	**Points of Interest - Commercial Services** Name: Reinwood Service Station Location: New Hey Road, Marsh, Huddersfield, HD3 4BU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9SW (SE)	982	9	412123 417388
178	**Points of Interest - Commercial Services** Name: Car Wash Location: New Hey Road, Marsh, Huddersfield, West Yorkshire, HD3 4BU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9SW (SE)	982	9	412123 417388
179	**Points of Interest - Education and Health** Name: Huddersfield Royal Infirmary Location: Acre Mills, Acre Street, Huddersfield, HD3 3EB Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A8NE (SE)	603	9	411889 417698
179	**Points of Interest - Education and Health** Name: Acre Mills Location: Acre Mills, Acre Street, Huddersfield, HD3 3EB Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A8NE (S)	652	9	411862 417637
180	**Points of Interest - Education and Health** Name: Huddersfield Royal Infirmary Location: Acre Street, Huddersfield, HD3 3EA Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A9NW (SE)	753	9	412199 417720
180	**Points of Interest - Education and Health** Name: Huddersfield Royal Infirmary Location: Acre Street, Huddersfield, HD3 3EA Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A9NW (SE)	807	9	412236 417680
180	**Points of Interest - Education and Health** Name: Huddersfield Royal Infirmary Location: Acre Street, Huddersfield, HD3 3EA Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A9NW (SE)	807	9	412236 417681
180	**Points of Interest - Education and Health** Name: Dales Unit Location: Acre Street, Huddersfield, HD3 3EA Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A9NW (SE)	807	9	412236 417681
180	**Points of Interest - Education and Health** Name: Huddersfield Royal Infirmary Location: Acre Street, Huddersfield, HD3 3EA Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A9NW (SE)	807	9	412236 417681

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	45	9	411723 418257
181	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	45	9	411723 418257
182	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	51	9	411675 418357
183	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	183	9	411733 418477
183	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	183	9	411733 418477
184	**Points of Interest - Manufacturing and Production** Name: Tank Location: HD3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	453	9	411822 417834
185	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	459	9	411936 417884
185	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	460	9	411936 417883
186	**Points of Interest - Manufacturing and Production** Name: Tank Location: HD3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	471	9	411673 417778
186	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A8NW (S)	520	9	411617 417727
186	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	527	9	411624 417720
187	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	512	9	411511 417749

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	513	9	411507 417749
187	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	538	9	411451 417740
187	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	538	9	411451 417740
187	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	553	9	411513 417707
188	**Points of Interest - Manufacturing and Production** Name: Tank Location: HD3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	605	9	411991 417746
188	**Points of Interest - Manufacturing and Production** Name: Tank Location: HD3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	661	9	411983 417677
189	**Points of Interest - Manufacturing and Production** Name: Tanks Location: HD3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	628	9	411602 417620
189	**Points of Interest - Manufacturing and Production** Name: Outdoor Industrial Estate Location: HD3 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	687	9	411545 417565
189	**Points of Interest - Manufacturing and Production** Name: Heritage Exchange Location: Wellington Mills 70, Plover Road, Huddersfield, HD3 3HR Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A8SW (S)	694	9	411622 417553
190	**Points of Interest - Manufacturing and Production** Name: Works Location: HD3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	816	9	411455 417450
191	**Points of Interest - Public Infrastructure** Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	106	9	411764 418344
191	**Points of Interest - Public Infrastructure** Name: Burial Ground Location: HD3 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	106	9	411764 418344

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	**Points of Interest - Public Infrastructure** Name: Tip Location: HD3 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	221	9	411647 418528
193	**Points of Interest - Public Infrastructure** Name: Birchencliffe Service Station Location: Birchencliffe Service Station, Halifax Road, Huddersfield, HD3 3BX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18SE (N)	592	9	411866 418864
193	**Points of Interest - Public Infrastructure** Name: Birchencliffe Service Station Location: Birchencliffe Service Station, Halifax Road, Huddersfield, HD3 3BX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18SE (N)	592	9	411866 418864
193	**Points of Interest - Public Infrastructure** Name: Co-Op Halifax Road Location: Birchencliffe Service Station, Halifax Road, Huddersfield, HD3 3BX Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18SE (N)	592	9	411866 418864
194	**Points of Interest - Public Infrastructure** Name: Reinwood Service Station Location: New Hey Road, Huddersfield, HD3 4BU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8SW (S)	679	9	411488 417584
195	**Points of Interest - Public Infrastructure** Name: Oakes Section Police Station Location: New Hey Road, Huddersfield, HD3 4DD Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	934	9	412057 417410
195	**Points of Interest - Public Infrastructure** Name: Reinwood Service Station Location: New Hey Road, Huddersfield, HD3 4DD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	981	9	412123 417389
195	**Points of Interest - Public Infrastructure** Name: Reinwood Service Station Location: New Hey Road, Marsh, Huddersfield, West Yorkshire, HD3 4BU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	982	9	412123 417388
195	**Points of Interest - Public Infrastructure** Name: Esso Location: New Hey Road, Huddersfield, HD3 4DD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	983	9	412123 417387
196	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	212	9	411441 418153
197	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	240	9	411889 418148
198	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	301	9	411488 418564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	406	9	412053 418427
200	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	542	9	412210 418375
201	**Points of Interest - Recreational and Environmental** Name: Play Area Location: HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	685	9	411798 418979
202	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	810	9	410968 417781
202	**Points of Interest - Recreational and Environmental** Name: Playground Location: Deer Croft Avenue, HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	811	9	410968 417780
203	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	849	9	411320 419088
203	**Points of Interest - Recreational and Environmental** Name: Playground Location: Ainley Road, HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	850	9	411318 419088
204	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	877	9	411112 417540
204	**Points of Interest - Recreational and Environmental** Name: Playground Location: Greenfield Avenue, HD3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	877	9	411112 417540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	**Areas of Adopted Green Belt** Authority: Kirklees Metropolitan Borough Council Plan Name: Kirklees Unitary Development Plan **Status: Adopted** Plan Date: 1st March 1999	A19SW (NE)	832	11	412285 418862
206	**Areas of Unadopted Green Belt** Authority: Kirklees Metropolitan Borough Council Plan Name: Kirklees Local Plan **Status: Submission Draft** Plan Date: 25th April 2017	A19SW (NE)	832	11	412285 418862

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	June 2020	Annually
Calderdale Metropolitan Borough Council - Environmental Health	October 2017	Annual Rolling Update
Kirklees Metropolitan Borough Council - Planning Services	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	January 2022	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	
Integrated Pollution Controls		
Environment Agency - North East Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	January 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Kirklees Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
Calderdale Metropolitan Borough Council - Environmental Health	October 2014	Variable
Local Authority Pollution Prevention and Controls		
Kirklees Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Calderdale Metropolitan Borough Council - Environmental Health	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Kirklees Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
Calderdale Metropolitan Borough Council - Environmental Health	October 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	March 2013	
Registered Radioactive Substances		
Environment Agency - North East Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register		
Environment Agency - North East Region - Ridings Area	January 2022	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2022	Quarterly
Water Abstractions		
Environment Agency - North East Region	January 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Environment Agency - Head Office	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2022	Quarterly
Flood Defences Environment Agency - Head Office	February 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Environment Agency - Head Office	January 2022	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North East Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - Ridings Area	January 2022	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Ridings Area	January 2022	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2022	Quarterly
Local Authority Landfill Coverage		
Calderdale Metropolitan Borough Council - Environmental Health	February 2003	Not Applicable
Kirklees Metropolitan Borough Council - Planning Services	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Calderdale Metropolitan Borough Council - Environmental Health	October 2018	
Kirklees Metropolitan Borough Council - Planning Services	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - North East Region - Ridings Area	March 2006	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Ridings Area	April 2018	
Environment Agency - North East Region - Yorkshire Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Ridings Area	June 2015	
Environment Agency - North East Region - Yorkshire Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Kirklees Metropolitan Borough Council - Planning Services	August 2015	Variable
Calderdale Metropolitan Borough Council	February 2016	Variable
Planning Hazardous Substance Consents		
Kirklees Metropolitan Borough Council - Planning Services	August 2015	Variable
Calderdale Metropolitan Borough Council	February 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2021	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2022	Quarterly
Points of Interest - Education and Health PointX	March 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2022	Quarterly
Points of Interest - Public Infrastructure PointX	March 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt		
Calderdale Metropolitan Borough Council	October 2020	Quarterly
Kirklees Metropolitan Borough Council	October 2020	Quarterly
Areas of Unadopted Green Belt		
Calderdale Metropolitan Borough Council	October 2020	Quarterly
Kirklees Metropolitan Borough Council	October 2020	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2021	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	January 2021	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2021	Bi-Annually
Special Areas of Conservation		
Natural England	July 2020	Bi-Annually
Special Protection Areas		
Natural England	February 2021	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Kirklees Metropolitan Borough Council - Environmental Health Department** West Riding House, 9 Manchester Road, Huddersfield, West Yorkshire, HD1 3HH	Telephone: 01484 221000 Email: customer.relations@kirklees.gov.uk Website: www.kirklees.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Kirklees Metropolitan Borough Council - Planning Services** PO BOX B93, Civic Centre III, Off Market Street, Huddersfield, West Yorkshire, HD1 2JR	Telephone: 01484 221000 Fax: 01484 221613 Website: www.kirklees.gov.uk
7	**Calderdale Metropolitan Borough Council - Environmental Health** Northgate House, Northgate, Halifax, West Yorkshire, HX1 1UN	Telephone: 01422 357257 Fax: 01422 392238 Website: www.calderdale.gov.uk
8	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	**Kirklees Metropolitan Borough Council** Town Hall, Civic Centre, Huddersfield, West Yorkshire, HD1 2TA	Telephone: 01484 221000 Fax: 01484 442768 Website: www.kirklees.gov.uk
12	**Calderdale Metropolitan Borough Council** Crossley House, Crossley Street, Halifax, West Yorkshire, HX1 1TP	Telephone: 01422 357257 Fax: 01422 392238 Website: www.calderdale.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

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