JNP GROUP

CONSULTING ENGINEERS

Phase I Geo-environmental Report

Project: Haichs Building
Firth Street
Huddersfield
HD1 3DA

Client: Shound Properties Ltd

Reference: B25558-JNP-XX-XX-RP-G-1001 P01

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FOR AND ON BEHALF OF JNP GROUP

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Contents

EXECUTIVE SUMMARY

Site location	Haichs Building, Firth Street, Huddersfield, HD1 3DA	
Development scheme	Existing building is to be reconfigured internally including the addition of a studio flat within the existing basement. In addition, two extra storeys are proposed to be added to provide further accommodation.	
NGR	414633, 415937	
Current use	On-site: HMO residential property.	Off-site: Commercial, residential and road infrastructure.
Historical use And UXO	The site was undeveloped land until 1888 when a building was constructed across the majority of the site. The site appears to have remained the same since. A low UXO risk has been identified at the site.	
Geology	Alluvium. Soft Bed Flags Formation.	
Hydrogeology	Secondary A Aquifer. Not in a Source Protection Zone.	
Hydrology	The Huddersfield Narrow Canal is located 67m north-west of the site and the River Colne is located 121m south site.	
Conceptual Site Model	The risk to human health receptors from potential sources of contamination is considered to be low at this stage. The risk to groundwater receptors from potential sources of contamination is considered to be low at this stage. There is considered to be no risk to surface water receptors from potential sources of contamination at this stage. There is considered to be no risk ecological receptors from potential sources of contamination at this stage. The risk property and infrastructure from potential sources of contamination is considered to be low at this stage.	
Recommendations	Internal gas monitoring of the existing basement to determine if there is any ingress of toxic / explosive gases. Tanking of the basement to prevent the ingress of contaminated groundwater. Watching brief during any external ground investigations for any potentially contaminated ground. Should this be observed, JNP should be contacted to arrange appropriate contamination testing.	

1 INTRODUCTION

1.1 General

1.1.1 JNP Group was instructed by Shound Properties Ltd to undertake a desk study of:

Haichs Building,
Firth Street,
Huddersfield,
HD1 3DA

hereinafter referred to as 'the site'. This report is subject to the limitations presented in Appendix A:.

1.1.2 It is understood that the existing building is to be reconfigured internally including the addition of a studio flat within the existing basement. In addition, two extra storeys are proposed to be added to provide further accommodation. The proposed redevelopment layout is shown on external Drawing Reference 2854-(100)05 produced by Acumen Architects Ltd. (Appendix B).

1.1.3 All comments given are based on the understanding that the proposed redevelopment will be as detailed above.

1.2 Objectives

1.2.1 The scope of work comprised non-intrusive (desk-based) research only. This report contains details of the site, development of an initial conceptual model, and a preliminary risk assessment with regard to contaminated land issues. Whilst it may provide high level comments, the report is not intended to detail the geotechnical risks for the site.

1.3 Methodology

1.3.1 This report has been compiled in accordance with the on-line Land contamination: risk management (LCRM) guidance produced by the Environment Agency (June 2019). This can be found on the UK government website: https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks.

1.3.2 With regard to geotechnical aspects, reference is also made to the requirements of BS EN 1997, Eurocode 7, Geotechnical Design, and associated standards.

2 SITE DESCRIPTION

2.1.1 The site is located on the junction of Firth Street and Kings Bridge Road in Huddersfield, West Yorkshire approximately 900m south-east of the town centre (see Figure 1 Key Plan). The centre of the site is located at National Grid Reference 414633, 415937. The site covers an area of approximately 0.01 hectares.

2.1.2 The site comprises a two-storey stone built building which is currently used as residential HMO accommodation. The existing building fronts directly onto pathways north and east of the site running adjacent to Firth Street and Kings Bridge Road respectively.

2.1.3 The existing building footprint occupies the majority of the site however pedestrian access from Firth Street, via a series of steps, leads down to a small courtyard to the rear of the building.

2.1.4 The courtyard is surfaced with hard-standing and appears to primarily be used for bin storage. A small covered area is located in one corner.

2.1.5 The surrounding land uses are summarised in Table 2.1 below.

Table 2.1 Surrounding Land Use

Direction	Land Use
North	Firth Street, beyond which lies commercial / residential buildings.
East	Kings Bridge Road, beyond which lies commercial / residential buildings.
South	Commercial / residential buildings.
West	Commercial / residential buildings.

3 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

3.1 Geology

3.1.1 The geology of the site has been determined by reference to the 1:50,000 scale British Geological Survey (BGS) online Geoindex Tool (**http://mapapps2.bgs.ac.uk/geoindex/home.html**) as well as to the BGS 1:50,000 Series published geological map, Sheet 77 Huddersfield (Solid and Drift edition, dated 2003) accessed via the website (**http://www.bgs.ac.uk/data/maps/home.html**); these were both accessed on 12/10/2023.

3.1.2 No recorded artificial or made ground is indicated at the site, however, from the aerial imagery viewed hardstanding is present across most of the site. Given the developed nature of the site, made ground is anticipated to be present.

3.1.3 The superficial geology of the site to be is indicated to be Alluvium, which is described by the BGS as "*Normally soft to firm, consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present*".

3.1.4 The underlying "bedrock" geology is indicated to be strata of the Soft Bed Flags, a named sandstone unit within the Pennine Lower Coal Measures Formation, which is described by the BGS as *"fine grained, thinly bedded and cross bedded to flaggy sandstone interbedded with mudstone".* Nearby strata are shown to dip 4° to the east.

3.1.5 There are no faults denoted within 500m of the site.

3.1.6 The following Table 3.1 summarises the potential risks from a range of geological hazards at the site as identified in a site-specific Groundsure Report which has been obtained and is included in Appendix C:.

Table 3.1 Geological Hazards

Hazard	Risk
Shrinking or swelling clay	Very Low
Landslide ground	Very Low
Ground dissolution	Negligible
Compressible soils	Moderate
Collapsible soils	Negligible
Running sand	Low

3.1.7 Based upon the above, most these geological hazards are not considered to pose a constraint to the proposed development. However, risks relating to compressible soils are indicated to be moderate and warrant further investigation/consideration. As the existing building is to be refurbished JNP Group do not consider any further action is required with regards to compressible ground.

3.2 BGS Borehole Records

3.2.1 JNP Group has consulted online borehole records held by the BGS. The records of four boreholes exist within 250m of the site (references SE11NW446, SE11NW20, SE11NW802 and SE11NW30). Two of the boreholes provided detailed logs and generally recorded made ground to depths of between 1.98m and 2.43m bgl overlying sandy clay and sand and gravel

to a maximum depth of 5.79m bgl. Sandstone bedrock was encountered between 5.48m and 6.70m bgl. No details regarding groundwater was provided on the logs.

3.3 Radon

3.3.1 The Groundsure Report states that the Health Protection Agency identified that between 1-3% of homes above the action level and that no radon protection measures are necessary for the intended development at the site.

3.3.2 Reference to BRE211 'Radon: guidance on protective measures for new dwellings' indicates that if the site is within an area which has a risk level of 3% then no protection measures are required.

3.4 Background Soil Chemical Concentrations

3.4.1 From a review of the Groundsure Report and the UK Soil Observatory map viewer (http://mapapps2.bgs.ac.uk/ukso/home.html) the following range of background metallic soil concentrations are anticipated at the site:

- arsenic: 25 - 35mg/kg;
- barium: 320mg/kg;
- cadmium: < 1.8mg/kg;
- chromium: 60 - 90mg/kg;
- copper: 66mg/kg;
- lead: 100 - 200mg/kg;
- nickel: 15 - 33mg/kg and
- vanadium: 91mg/kg.

3.4.2 Therefore, naturally elevated concentrations of the foregoing elements are not anticipated at the site or within close proximity.

3.5 Mining, Mineral Extraction and Natural Cavities

- Eleven entries for historical surface ground workings are recorded to be present within 250m of the site. The majority relate to a canal recorded between 60-62m north-west of the site. A single entry relates to a colliery 149m south of the site and two entries relate to unspecified ground workings between 202-249m south-west of the site;
- A single entry for historical underground workings is recorded within 500m of the site. The entry is for a colliery recorded 249m south of the site;
- No current ground workings are recorded within 1km of the site;
- The site is within an area affect by coal mining however inspection of the Coal Authority interactive map shows the site does not lie within a high risk area and no further assessment is deemed necessary;
- There are no coal mining cavities located within 1km of the site;
- There are no natural cavities located within 500m of the site;
- No brine or gypsum extraction has occurred within 1km of the site;

- No tin or clay mining areas are located within 1km of the site.

3.6 Hydrogeology

3.6.1 The Aquifer Maps contained in the Groundsure Report indicates that the site is underlain by a Secondary-A Aquifer. The aquifer status refers to both the superficial Alluvium and Soft Bed Flags Formation recorded to underlie the site.

3.6.2 The Environment Agency define a Secondary-A Aquifer 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."

3.6.3 The Groundsure Report lists one licensed groundwater abstraction within 250m of the site. The abstraction is recorded 65m north-west of the site at SKA Textiles Ltd. The status of water abstraction is recorded as historical.

3.6.4 The site's proximity to groundwater Source Protection Zones (SPZs) was determined by reference to defra's Magic Map website (https://magic.defra.gov.uk/). These zones show the risk of contamination of major licensed groundwater abstractions from any activities that might cause pollution in the area, with the closer the activity, the greater the associated risk. The maps show four main zones (inner, outer, total catchment and special interest) to a groundwater source.

3.6.5 The site is not recorded to lie within or close to a SPZ.

3.6.6 According to the Groundsure Report, the site is at a low risk of groundwater flooding.

3.7 Hydrology

3.7.1 The nearest surface water feature is the Huddersfield Narrow Canal which flows in a north-easterly direction and is located 67m north-west of the site. The River Colne which flows in a north-easterly direction is located 121m south of the site.

3.7.2 River quality data from the publicly available River Basin Management Plans implemented by the Water Framework Directive (http://environment.data.gov.uk/catchment-planning/) indicates that this section of the River Colne recorded a chemical quality of Failed in 2019 and it is anticipated to be Good in 2063, ecological quality was reported to be Moderate in 2019 and is anticipated to be Good in 2027.

3.7.3 According to the Groundsure Report, the site lies in an area considered by the Environment Agency to be at risk of fluvial flooding. From the Groundsure Report, there is a risk of surface water flooding across the entire site.

3.7.4 The Groundsure Report lists three licensed surface water abstractions within 250m of the site. The nearest is recorded 59m north of the site at the Huddersfield Broad Canal. The status of the water abstraction is recorded as historical.

3.8 Pollution Incidents to Controlled Waters

3.8.1 Records held by the Environment Agency identified nine pollution incidents to controlled waters within 500m of the site as follows:

Table 3.2 Summary of Pollution Incidents to Controlled Waters

Distance and direction from site	Date	Receiving Water Body	Pollutant	Category
132m SE	June 2001	Colne catchment	Other pollutant	3 (Minor)
180m SW	November 2002	Colne catchment	Oils & Fuels - Diesel	2 (Significant)
217m SW	January 2002	Colne catchment	Oils & Fuels - Diesel	3 (Minor)
322m W	September 2021	Colne catchment	Inorganic chemicals	1 (Major)
328m SW	May 2020	Colne catchment	Paints & Varnishes	2 (Significant)
353 SW	December 2005	Colne catchment	Surfactants & Detergents	1 (Major)
456m SW	January 2023	Colne catchment	Chemical Odour	4 (No Impact)
473m W	May 2007	Colne catchment	Pollutant not identified	2 (Significant)
484m NE	August 2003	Colne catchment	Oils & fuels – Insulating & cable fuels	2 (Significant)

3.9 Discharge Consents

3.9.1 The Groundsure Report identifies twenty seven licensed discharge consents within 500m of the site. Entries recorded within 250m of the site are summarised as follows:

Table 3.3 Summary of Discharge Consents

Distance and direction from site	Date	Receiving Water Body	Discharge	Licence Status
137m SE	August 2007	River Colne	Sewer storm overflow	Assumed current
140m SE	June 2019	River Colne	Sewer storm overflow	Assumed current
151m SE	August 2007	River Colne	Sewer storm overflow	Assumed current
167m SE	January 1995	River Colne	Sewer storm overflow	Assumed current
193m S	January 1995	River Colne	Sewer storm overflow	Assumed current
195m SW	June 2007	River Colne	Sewer storm overflow	Assumed current
224m SW	January 1995	River Colne	Sewer storm overflow	Assumed current

4 SITE HISTORY

4.1 Historical Mapping

4.1.1 The history of the site and the surrounding area has been determined from a review of historical map extracts, obtained as part of the Groundsure report. Copies of these extracts are included in Appendix D:. The historical land uses on site and in close proximity to the site are summarised as follows in Table 4.1

Table 4.1 Site Historical Summary

Date	On-site Historical Land Use	Off-site Historical Land Use
1854	The site comprises undeveloped land.	The site is situated on the outskirts of the town of Huddersfield and several mills are shown within 500m south-west of the site. A canal is shown 80m north of the site and the River Colne is located 100m south of the site.
1888 - 1893	A building has been constructed across the majority of the site.	A timber yard is located immediately to the south and a smithy c. 50m south of the site respectively. A woollen mill is located immediately west of the site and several mills and works are shown within 100m north and south of the site.
1905 - 1907	No changes shown.	A colliery is shown 200m south-west of the site. The adjacent building to the west is no longer labelled as a mill.
1918	No changes shown.	The colliery is no longer shown.
1930-1938	No changes shown.	Two foundries have been constructed 20m east of the site.
1948	No changes shown.	No changes shown.
1955 - 1956	No changes shown.	The timber yard is no longer shown on the map.
1959 - 1962	The site is shown as numbered residential properties, although the layout remains the same	No changes shown.
1965 - 1969	No changes shown.	No changes shown.
1975 - 1978	No changes shown.	No changes shown.
1984 - 1994	No changes shown.	A works is shown immediately south of the site.
1993 - 1995	No changes shown.	No changes shown.
2001	No changes shown.	No changes shown.
2003	No changes shown.	No changes shown.
2010	No changes shown.	No changes shown.

4.2 Unexploded Ordnance Review

4.2.1 Whilst JNP Group are not experts on this, according to online mapping provided by Zetica (https://zeticauxo.com/downloads-and-resources/risk-maps/) the site lies with an area of low risk of unexploded ordnance (UXO).

4.3 Site Historical Summary

4.3.1 The site was undeveloped land until 1888 when a building was constructed across the majority of the site. The site appears to have remained the same since.

4.3.2 The area surrounding the site has been largely built-up since the earliest available map of 1854. Land-uses within 100m of the site have included a timber yard, mills, foundries and works.

5 INFORMATION HELD BY STATUTORY AUTHORITIES

5.1 Summary

5.1.1 This section details any relevant information held in the registers maintained by statutory bodies as identified in the Groundsure Report (Appendix C:).

Table 5.1 Statutory Information Summary

	On-Site	0-250m	250-500m	Details
Waste				
Historical Landfills	0	0	0	None recorded.
Historical Waste Sites	0	1	1	The nearest historical waste site is a scrap yard recorded 147m NE of the site.
Licensed Waste Sites	0	1	1	The nearest licensed waste site is metal recycling site located 164m NE of the site.
Environmental Permits, Incidents and Registers				
Part A(1) and IPPC Authorised Activities	0	0	0	None recorded.
Part A(2) and Part B Activities and Enforcements	0	1	1	The nearest is recorded 104m E of the site and is a historical permit for non-ferrous foundry processes.
COMAH & NIHHS Sites	0	0	0	None recorded.
Industrial and Contaminative Premises				
Historical Tanks	0	6	6	The nearest is recorded 76m NW and is an unspecified tank dated 1932.
Historical Energy Features	0	4	31	The nearest is an electricity substation located 154m W of the site.
Historical Garages	0	7	15	The nearest is recorded 88m NW of the site.
Fuel Stations	0	0	0	None recorded.

5.2 Environmentally Sensitive Areas

5.2.1 According to the Groundsure Report there are no sensitive land uses within 1km of the site.

6 UK CONTAMINATED LAND LEGISLATIVE FRAMEWORK

6.1 General

6.1.1 Given that the site is being assessed with the potential for future development, the most applicable appraisal relates to the requirements of the Planning Regime as described in the National Planning Policy Framework.

6.1.2 In order to proceed with an assessment of contamination issues it is essential that there is compliance with UK guidance as detailed in the on-line Land contamination: risk management (LCRM) guidance produced by the Environment Agency (June 2019). This can be found on the UK government website: https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks.

6.1.3 Part IIA of the Environmental Protection Act, 1990, which was enacted by Section 57 of the Environment Act 1995, and the associated Contaminated Land (England) Regulations 2000 (SI 2000/227), was introduced on 1 April 2000. It created a new statutory regime for the identification and remediation of land where contamination poses an unacceptable risk to human health and the environment. The guidance was subject to a review by DEFRA in 2012, and a revision was published.

6.1.4 Part IIA provides a statutory definition of contaminated land:

6.1.5 *"any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is a significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused".*

6.1.6 Controlled waters are considered to be all groundwaters, inland surface waters, and estuarine and coastal waters.

6.1.7 To determine whether land falls under the Part IIA definition of contaminated land, the site should be evaluated in the context of a risk-based framework. The assessment of contaminated land is typically a two-phase process, which is initially based on a qualitative assessment of the likelihood of complete pollution linkages, with a quantitative element that seeks to determine the degree and the significance of the harm. Land is only defined as 'Contaminated Land' if a "significant pollutant linkage" is present.

6.1.8 A pollutant linkage must comprise the following:

Source *- a contaminant at a concentration capable of causing adverse health or environmental effects.*

Receptor *- there must be a receptor (e.g. human, controlled waters, ecological, or property) present, which may be at risk of harm or impact from the source.*

Pathway *- there must be an exposure pathway through which the receptor comes into contact with the contamination source.*

6.1.9 Each of these elements can exist independently, but they create risk only when they are linked together, so that a particular contaminant affects a particular receptor, through a particular pathway.

6.1.10 The responsible authority then needs to consider whether the identified pollution linkage:

- is resulting in significant harm being caused to the receptor in the pollutant linkage;

- presents a significant possibility of significant harm being caused to that receptor;
- is resulting in the pollution of controlled waters, which constitute the receptor; or is likely to result in such pollution.

6.1.11 If a pollutant linkage is demonstrated, then the Part IIA legislation provides powers for remedial action to be enforced by the Local Authority in whose area the contaminated land is situated.

6.1.12 In addition, JNP Group has undertaken a preliminary risk assessment based on the probability of receptor exposure to the identified source and the consequences of such exposure.

6.1.13 Risk management, which can include site surfacing, formal management systems, legal requirements; is then considered to provide an overall residual risk. The categories of environmental risk used by JNP Group are given in the table that follows.

Table 6.1 Risk Matrix

Environmental Risks		
HIGH		Issues within this category likely to provide a significant cost or liability. Further detailed investigation may be required to clarify the risk.
MEDIUM		It is possible that issues within this category may provide a cost or liability. Further investigation may be required to clarify the risk.
LOW		It is unlikely that issues within this category will provide a significant cost or liability. Basic investigation may be required to clarify the risk.
NONE		No source – pathway – receptor linkage present.

7 CONCEPTUAL SITE MODEL AND PRELIMINARY RISK ASSESSMENT

7.1 General

7.1.1 This section uses information from all the data sources presented herein to provide a conceptual model and qualitative assessment of the potential risks posed to human health and environmental receptors from potential on-site and off-site sources of contamination. The assessment is presented as a 'source-pathway-receptor' model in accordance with Part IIA of the Environmental Protection Act 1990.

7.1.2 The conceptual site model has been developed assuming that the site will be redeveloped with residential flats. It is understood no garden or soft-landscaping areas are proposed.

7.2 Potential Sources of Contamination

7.2.1 Potential On-Site Sources of Contamination:

- The site remained undeveloped until approximately 1888 when the existing building appears to have been constructed on the site.
- Heavy metals, hydrocarbons, and soil gas associated with limited made ground materials may be present as a result of the previous phases of development.
- In accordance with C733 guidance, any structure built, refurbished or modified during the Twentieth Century has the potential to contain asbestos containing materials (ACM). In addition, any demolition material either stockpiled or used as backfill on site also has the potential to contain asbestos containing materials (intact or broken up).

7.2.2 Potential Off-Site Sources of Contamination:

- Several commercial and industrial land-uses have historically been located in proximity to the site which may have caused contaminants such as heavy metals, phenolic compounds and hydrocarbons to have migrated beneath the site.

7.3 Receptors

7.3.1 The existing building is to be reconfigured internally including the addition of a studio flat within the existing basement. In addition, two extra storeys are proposed to be added to provide further accommodation. The primary receptors, considered to be potentially at risk from any identified contamination are as follows:

Human Health

- Construction workers during the redevelopment phase;
- Residential end users.

Controlled Waters

- The Alluvium and Soft Bed Flags Formation underlying the site are classified as a Secondary-A Aquifer. The site is not located within a SPZ;
- The nearest controlled surface water is the Huddersfield Narrow Canal which is located 67m north-west of the site. The River Colne is located 121m south site. Given that the closest watercourse is a canal and considering the distance to the watercourses and urban nature if the intervening areas, they are not considered to be potential receptors.

Ecological

- The site is not located within an environmentally designated sensitive area;
- Given the site setting sensitive species are considered unlikely to be present at the site (subject to any ecological survey undertaken).

Property / Infrastructure

- Concrete vulnerability to aggressive ground conditions;
- Build-up of gases with potential for explosion;
- Water supply pipework.

7.4 Pathways

7.4.1 Potential contaminant migration pathways considered relevant to the site are:

Human Health

- Ingestion of contaminated soils and dust particles;
- Direct physical contact with near surface soils and contaminated dust particles;
- Inhalation of wind-blown contaminated dust;
- Inhalation of vapours and gases, migrating vertically into the atmosphere;
- Inhalation of vapours and gases, migrating vertically into buildings and confined spaces;
- Consumption of contaminated potable water.

Controlled Waters

- Leaching of contaminants in made ground / natural ground into groundwater.

Ecological

- Direct contact between ecological receptors and contaminated surface water;
- Direct contact between ecological receptors and contaminated soils;
- Ingestion of contaminated soils/surface waters by ecological receptors;
- Inhalation of vapours or wind-blown dust by ecological receptors.

Property

- Direct physical contact with near surface soils;
- Migration of vapours and gases into buildings and confined spaces.

7.5 Pollutant Linkages

7.5.1 A 'pollutant linkage' describes the relationship between a contaminant, a pathway and a receptor, a 'pollutant' being the contaminant in a pollutant linkage. A contaminant, pathway and receptor must all be present for a pollutant linkage to exist, which forms the basis for determination that a piece of land is Contaminated Land. Potential sources, pathways and

receptors have been assessed. The following Tables summarise the significant pollutant linkages potentially active at the site.

Table 7.1 Potential Source-Pathway-Receptor Linkages for Human Health Risk Assessment

Source	Pathway	Receptor
Contaminated soils and waters	Ingestion of soil	On-site female child: 0 - 6 yrs old
		On-site construction worker
	Ingestion of household dust	On-site female child: 0 - 6 yrs old
	Dermal contact	On-site female child: 0 - 6 yrs old
		On-site construction worker
	Dermal contact with household dust	On-site female child: 0 - 6 yrs old
	Inhalation of fugitive soil dust	On-site construction worker
		On-site female child: 0 - 6 yrs old
	Inhalation of fugitive household dust	On-site female child: 0 - 6 yrs old
	Inhalation of vapours in outdoor air	On-site female child: 0 - 6 yrs old
		On-site construction worker
	Inhalation of vapours in indoor air	On-site female child: 0 - 6 yrs old
	Consumption of contaminated potable water	On-site female child: 0 - 6 yrs old
Ground gas	Vertical and lateral migration	End users

Table 7.2 Potential Source Pathway Receptor Linkages for Controlled Waters Risk Assessment

Source	Pathway	Receptor
Contaminated soils	Leaching mechanisms	Groundwater stored in the Alluvium and Soft Bed Flags Formation

Table 7.3 Potential Source-Pathway-Receptor Linkages for Ecological Risk Assessment

Source	Pathway	Receptor
Contaminated soils and waters	Direct contact between ecological receptors and contaminated surface water;	Ecological receptors
	Direct contact between ecological receptors and contaminated soils;	
	Ingestion of contaminated soils/surface waters by ecological receptors;	
	Inhalation of vapours or wind-blown dust by ecological receptors.	
Ground gas	Inhalation of gases	

Table 7.4 Potential Source-Pathway-Receptor Linkages for Property Risk Assessment

Source	Pathway	Receptor
Contaminated soils	Contact with contaminated soils	Concrete
		Water supply pipe materials
Ground gas	Vertical and lateral migration and accumulation in voids	Residential properties

7.6 Preliminary Risk Assessment

7.6.1 From the information obtained from the desk study JNP Group has undertaken a preliminary risk assessment.

Table 7.5 Preliminary Risk Assessment

Risk Receptor	Risk		Justification
HUMAN HEALTH	LOW		Potential for heavy metal, phenolic compounds, hydrocarbons and asbestos contamination to be present due to the site age and surrounding historical land-uses. However no garden or soft-landscaped areas are included in the redevelopment proposals. Main risk are from short term exposure during any external / ground works during construction and from seepage of gas / contaminated water into the basement.
GROUNDWATER	LOW		On-site sources of contamination unlikely. The site is located on a Secondary A Aquifer and is not in a SPZ.
SURFACE WATER	NONE		The nearest surface water feature is located 67m north-west of the site and is a canal. Intervening area between this and the River Colne is urban making direct overland flow from the site to the watercourses unlikely.
ECOLOGY	NONE		Based on the assumption that there are no sensitive/ protected species on site (subject to any ecological survey undertaken).
PROPERTY & INFRASTRUCURE	LOW		Site remained undeveloped until the existing building was constructed. Potential for heavy metal, phenolic compounds and hydrocarbons contamination to be present due to the surrounding historical land-uses.

7.6.2 In line with BS ISO 18400-202:2018 based on the conceptual site model as above the site is considered to be probably uncontaminated.

8 CONCLUSIONS OF DESK STUDY

8.1 Conclusions

8.1.1 The desk-based research has identified that:

- The geological succession below the site comprises Alluvium overlying the Soft Bed Flags Formation.
- It is estimated that between 1-3% of homes above the action level for radon but no radon protection measures are necessary for the intended development at the site.
- The site is located within an area at risk of fluvial flooding and further assessment is required.

8.1.2 Based on information contained within the desk study, it is the opinion of JNP Group that the potential site conditions provide a LOW environmental risk. As the existing building is to be reconfigured internally including the addition of a studio flat within the existing basement, there are limited risks. These primarily relate short term exposure of construction workers during any external / ground works during construction and to residential end users and the building from seepage of gas / contaminated water into the basement and migration of contaminants into the water supply network. JNP consider limited further investigation is therefore required along with maintaining a watching brief during any external ground works.

8.2 Recommendations

8.2.1 Based on the conclusions from the desk study and the intended redevelopment of the site JNP Group recommend the following:

- Internal gas monitoring of the existing basement to determine if there is any ingress of toxic / explosive gases.
- Tanking of the basement to prevent the ingress of contaminated groundwater.
- Watching brief during any external ground investigations for any potentially contaminated ground. Should this be observed, JNP should be contacted to arrange appropriate contamination testing.

8.2.2 JNP Group recommend that the scope of the intrusive works is agreed with the Regulatory Authorities as they may have particular requirements that need to be taken into account.

9 REFERENCES

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FIGURES / DRAWINGS

Figure 1

Site Location Plan

Project:

Haichs Building, Huddersfield

B25558

APPENDIX A: LIMITATIONS

Introduction

This report is confidential and has been prepared solely for the benefit of the client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from JNP Group; a charge may be levied against such approval. JNP Group accepts no responsibility or liability for the consequences of this document being used for any purpose or project other than for which it was commissioned, and: this document to any third party with whom and agreement has not been executed.

Any comments given within this report are based on the understanding that the proposed works to be undertaken will be as described in the introduction and the information referred to and provided by others and will be assumed to be correct and will not have been checked by JNP Group and JNP Group will not accept any liability or responsibility for any inaccuracy in such information.

Any deviation from the recommendations or conclusions contained in this report should be referred to JNP Group in writing for comment and JNP Group reserve the right to reconsider their recommendations and conclusions contained within. JNP Group will not accept any liability or responsibility for any changes or deviations from the recommendations noted in this report without prior consultation and our full approval.

The details contained within this report reflect the site conditions prevailing at the time of investigation. JNP Group warrants the accuracy of this report up to and including that date. Additional information, improved practice or changes in legislation may necessitate this report having to be reviewed in whole or in part after that date. If necessary, this report should be referred back to JNP Group for re-assessment and, if necessary, re-appraisal.

This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report. Whilst this report and the opinion made herein are correct to the best of JNP Group' belief, JNP Group cannot guarantee the accuracy or completeness of any information provided by third parties.

The report represents the finding and opinions of experience geotechnical and geo-environmental engineers. JNP Group does not provide legal advice and the advice of lawyers may also be required.

It should be noted that the following were not included as part of the agreed scope of works with the client: detailed ecological surveys and assessment; groundwater monitoring and sampling; geotechnical requirements etc.

JNP Group has provided advice and made recommendations based on the findings of the work undertaken, however this is subject to the approval / acceptance by the relevant Regulatory Authorities.

Objectives

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the site. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, JNP Group reserves the right to review such information and, if warranted, to modify the opinions accordingly. It should be noted

that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Intrusive Investigations

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, and ground and groundwater conditions to allow a reasonable risk assessment to be made.

Where intrusive investigations have been undertaken, they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature sampling, no investigation technique is capable of identifying all conditions present in all areas. The number of sampling points and the methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered. The risk assessment and opinions provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

The objectives of the investigation have been linked to establishing the risks associated with potential human targets, building materials, the environment (including adjacent land), and to surface and ground water. The amount of exploratory work and chemical testing undertaken has necessarily been restricted by the short timescale available, and the locations of exploratory holes have been restricted to areas unoccupied by the building(s) on the site and by buried services.

Gas and groundwater levels may vary from those reported due to seasonal, or other effects.

Although preliminary comment has have been provided by JNP Group regarding UXO and Invasive Species, JNP Group not experts in these and as such specialist advice should be sought regarding the presence of UXO and invasive species at the site.

Gas Membranes

Where JNP Group are commissioned to undertake the inspection and validation of a gas membrane, we, at the time of inspection, will ensure that the membrane is laid in accordance with the relevant arrangements and sections. At that time we will ensure that the venting media is laid correctly in preparation of the membrane and we will ensure that any tears in the membrane or bad workmanship is reported and instructions given to be rectified. Thereafter it is the duty of the Principal Contractor to ensure that tears and defects are rectified.

Remediation and Verification Reports Limitations

The risk assessment and opinions provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

Where intrusive investigations have been undertaken, they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature sampling, no investigation technique is capable of identifying all conditions present in all areas. The number of sampling points and the methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered.

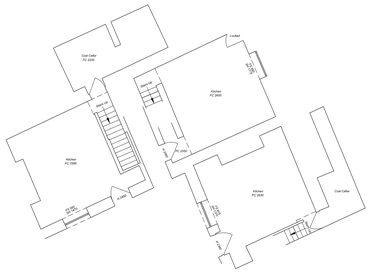
If costs have been included in relation to the site remediation these must be confirmed by a qualified quantity surveyor. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The

information reviewed from Third Party should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, JNP Group reserves the right to review such information and, if warranted, to modify the opinions accordingly.

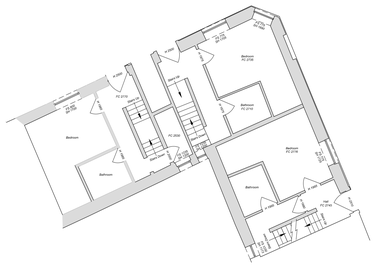
Whilst this report and the opinion made herein are correct to the best of JNP Group's belief, JNP Group cannot guarantee the accuracy or completeness of any information provided by third parties.

APPENDIX B: THIRD PARTY DRAWINGS

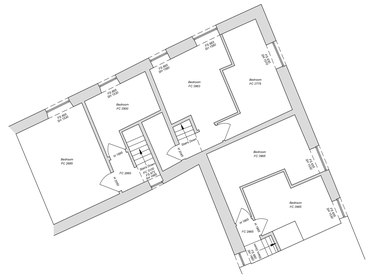
Ref. Description Rev. Date



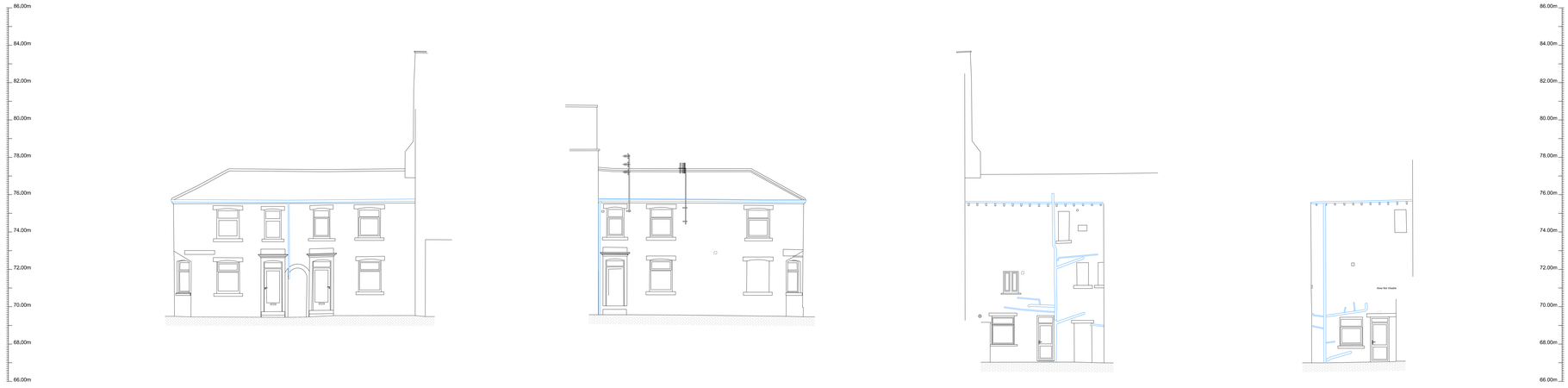
Basement



Ground Floor



First Floor



Notes:

1. Surveyed *July 2023*
2. Survey related to Ordnance Survey "OS Net" at control point V1, using realtime correction received via Leica Geosystems "Smart Net" service. Survey plotted to flat plane metric grid with no local scale factor applied, i.e. LSF 1.00.
3. Levels related to GPS Orthometric height, converted to MSL (Newlyn) by OSGB36.

N
W GRID E
S

Measured Building Survey

General

- Every effort is made to identify all visible above ground features. However, it should be borne in mind that at the time of survey, some surface features may have been obscured.
- Visible features in the vicinity of the site extents, as detailed on this survey, may not represent the legally conveyed ownership boundaries.

Legend

- *Building Walls*
- *External Breaks*
- *Doors*
- *Windows*
- *Ceiling Detail*
- *Internal Fittings*
- *Stairs*
- *Stairs Direction*

Digital File: ***MC_43.dwg***	*Original Size:* ***A0***

No.	*Description*	*Date*	*Signed*

Revisions

Surveyed:	BT	*Date:*	21.07.23	*Scale:*	1:100
Drawn:	BT	*Sheet:*	1 of 1	*Approved:*	

Title: ***Measured Building Survey***

Client: ***Nik Gill***

Site: ***Firth Street***

visiongeomatics

Digital Media Centre,
County Way,
Barnsley,
South Yorkshire,
S70 2JW
Web: www.visiongeomatics.com
Email: ben@visiongeomatics.com
Tel: 01226 720711 Mob: 07896662242

Drawing No.	***Rev.***
MC_48_MBS	

0 Proposed Ground Floor Plan
1 : 100

2 Proposed Second Floor Plan
1 : 100

3 Proposed Third Floor Plan
1 : 100

-1 Proposed Lower Ground Floor Plan
1 : 100

1 Proposed First Floor Plan
1 : 100

rev	description	drwn	auth	date

DO NOT SCALE OFF THIS DRAWING

ACUMEN
Designers & Architects
acumenarchitects.co.uk 01484 546 000
Headrow House, Old Leeds Road, Huddersfield, Huddersfield HD1 1SG

Client: MR N GILL

Project: HAICHS BUILDING

Project No	Drawing No	Rev
2854	(100)05	

Description: FLOOR PLANS AS PROPOSED

Scale	Date Drawn	Drawn By	Authorised By
1 : 100 @ A1	AUG 23	JA HB	JC

Purpose of Issue
Planning ○ Building Regs ○ Tender ○ Construction ○ Comment ⊗ Info ○

Only figured dimensions should be used.

Scaled dimensions should be checked with the Architect.

rev	description	drwn	auth	date

DO NOT SCALE OFF THIS DRAWING

ACUMEN
Designers & Architects
acumenarchitects.co.uk 01484 546 000
Headrow House, Old Leeds Road, Huddersfield, Huddersfield HD1 1SG

Client: MR N GILL

Project: HAICHS BUILDING

Project No	Drawing No	Rev
2854	(100)06	

Description: 3D VIEWS

Scale	Date Drawn	Drawn By	Authorised By
@ A2	AUG 23	JA HB	JC

Purpose of Issue
Planning ○ Building Regs ○ Tender ○ Construction ○ Comment ● Info ○

APPENDIX C: GROUNDSURE REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Haichs Building, Firth Street, Huddersfield , HD1 3DA

Order Details

Date: 11/10/2023

Your ref: B25558-G2181

Our Ref: GS-P93-BB9-QMN-35M

Site Details

Location: 414633 415937

Area: 0.01 ha

Authority: Kirklees Council ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	6	58	36	-
18 >	1.2 >	Historical tanks >	0	0	6	5	-
19 >	1.3 >	Historical energy features >	0	0	3	40	-
21	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	6	22	-
22	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
23 >	2.1 >	Historical industrial land uses >	0	13	78	53	-
29 >	2.2 >	Historical tanks >	0	0	6	6	-
29 >	2.3 >	Historical energy features >	0	0	4	89	-
33	2.4	Historical petrol stations	0	0	0	0	-
33 >	2.5 >	Historical garages >	0	0	11	33	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
36	3.1	Active or recent landfill	0	0	0	0	-
36	3.2	Historical landfill (BGS records)	0	0	0	0	-
37	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
37	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
37 >	3.5 >	Historical waste sites >	0	0	2	3	-
38 >	3.6 >	Licensed waste sites >	0	0	3	4	-
41 >	3.7 >	Waste exemptions >	0	0	6	13	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	4.1 >	Recent industrial land uses >	0	4	19	-	-
45 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
45	4.3	Electricity cables	0	0	0	0	-
45	4.4	Gas pipelines	0	0	0	0	-
46	4.5	Sites determined as Contaminated Land	0	0	0	0	-

46	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
46	4.7	Regulated explosive sites	0	0	0	0	-
46	4.8	Hazardous substance storage/usage	0	0	0	0	-
46	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
47	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
47 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	2	-
47 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	4	-
48 >	4.13 >	Licensed Discharges to controlled waters >	0	0	14	13	-
52	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53 >	4.15 >	Pollutant release to public sewer >	0	0	0	1	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
53 >	4.17 >	List 2 Dangerous Substances >	0	0	2	0	-
54 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	3	6	-
55	4.19	Pollution inventory substances	0	0	0	0	-
55	4.20	Pollution inventory waste transfers	0	0	0	0	-
55	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
58 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
60 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
61	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
61	5.5	Groundwater vulnerability- local information	None (within 0m)				
62 >	5.6 >	Groundwater abstractions >	0	0	3	0	23
68 >	5.7 >	Surface water abstractions >	0	0	3	6	7
72 >	5.8 >	Potable abstractions >	0	0	0	0	7
74	5.9	Source Protection Zones	0	0	0	0	-
74	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	6.1 >	Water Network (OS MasterMap) >	0	0	8	-	-

76 >	6.2 >	Surface water features >	0	0	6	-	-
76 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
77 >	6.4 >	WFD Surface water bodies >	0	0	2	-	-
77 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
80 >	7.2 >	Historical Flood Events >	0	0	2	-	-
80	7.3	Flood Defences	0	0	0	-	-
80	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
81	7.5	Flood Storage Areas	0	0	0	-	-
82 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
83	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
84 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
86 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
87	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
88	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
88	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
88	10.4	Special Protection Areas (SPA)	0	0	0	0	0
88	10.5	National Nature Reserves (NNR)	0	0	0	0	0
89 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
89 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	3
89	10.8	Biosphere Reserves	0	0	0	0	0
90	10.9	Forest Parks	0	0	0	0	0
90	10.10	Marine Conservation Zones	0	0	0	0	0
90 >	10.11 >	Green Belt >	0	0	0	0	1
90	10.12	Proposed Ramsar sites	0	0	0	0	0

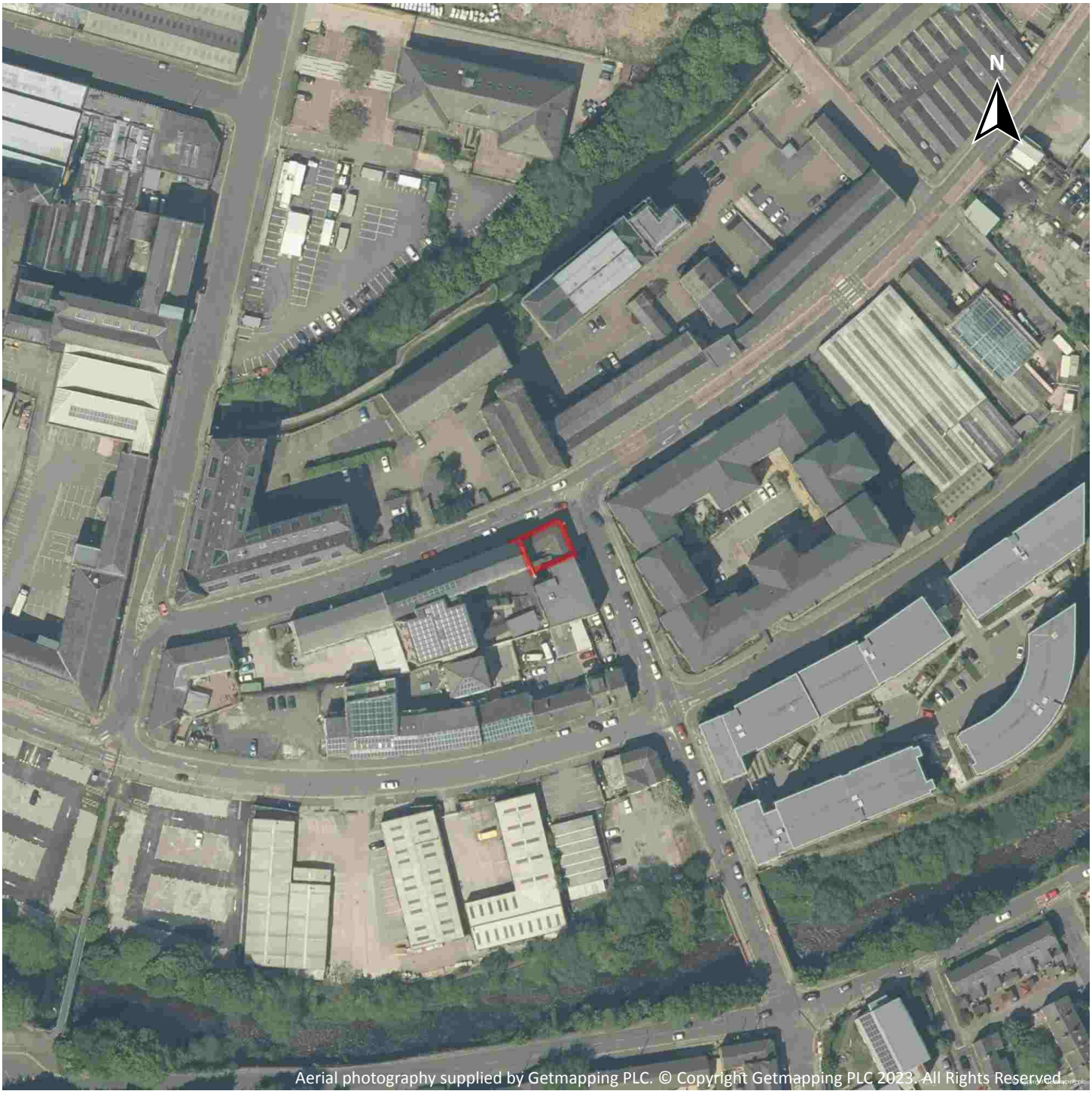
91	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
91	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
91	10.15	Nitrate Sensitive Areas	0	0	0	0	0
91	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
92 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
93	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
94	11.1	World Heritage Sites	0	0	0	-	-
95	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
95	11.3	National Parks	0	0	0	-	-
95 >	11.4 >	Listed Buildings >	0	0	7	-	-
96	11.5	Conservation Areas	0	0	0	-	-
96	11.6	Scheduled Ancient Monuments	0	0	0	-	-
96	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
98	12.2	Open Access Land	0	0	0	-	-
98	12.3	Tree Felling Licences	0	0	0	-	-
98	12.4	Environmental Stewardship Schemes	0	0	0	-	-
98	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations** >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	13.1 >	Priority Habitat Inventory >	0	0	5	-	-
100	13.2	Habitat Networks	0	0	0	-	-
100	13.3	Open Mosaic Habitat	0	0	0	-	-
100	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
101 >	14.1 >	10k Availability >	Identified (within 500m)				
102 >	14.2 >	Artificial and made ground (10k) >	0	0	1	2	-
103 >	14.3 >	Superficial geology (10k) >	1	1	0	3	-

104	14.4	Landslip (10k)	0	0	0	0	-
105 >	14.5 >	Bedrock geology (10k) >	1	1	1	4	-
106 >	14.6 >	Bedrock faults and other linear features (10k) >	0	1	1	9	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	15.1 >	50k Availability >	Identified (within 500m)				
108 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
109	15.3	Artificial ground permeability (50k)	0	0	-	-	-
110 >	15.4 >	Superficial geology (50k) >	1	1	0	2	-
111 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
111	15.6	Landslip (50k)	0	0	0	0	-
111	15.7	Landslip permeability (50k)	None (within 50m)				
112 >	15.8 >	Bedrock geology (50k) >	1	1	1	3	-
113 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
113 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	0	2	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	16.1 >	BGS Boreholes >	0	1	45	-	-
Page	Section	Natural ground subsidence >					
117 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
118 >	17.2 >	Running sands >	Low (within 50m)				
120 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
122 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
123 >	17.5 >	Landslides >	Very low (within 50m)				
124 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	18.1 >	BritPits >	0	0	0	1	-
127 >	18.2 >	Surface ground workings >	0	0	11	-	-
128 >	18.3 >	Underground workings >	0	0	1	0	16
128	18.4	Underground mining extents	0	0	0	0	-
129	18.5	Historical Mineral Planning Areas	0	0	0	0	-

129 >	18.6 >	Non-coal mining >	0	0	0	0	1
129	18.7	JPB mining areas	None (within 0m)				
129	18.8	The Coal Authority non-coal mining	0	0	0	0	-
130	18.9	Researched mining	0	0	0	0	-
130	18.10	Mining record office plans	0	0	0	0	-
130	18.11	BGS mine plans	0	0	0	0	-
130 >	18.12 >	Coal mining >	Identified (within 0m)				
131	18.13	Brine areas	None (within 0m)				
131	18.14	Gypsum areas	None (within 0m)				
131	18.15	Tin mining	None (within 0m)				
131	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
132	19.1	Natural cavities	0	0	0	0	-
132	19.2	Mining cavities	0	0	0	0	0
132	19.3	Reported recent incidents	0	0	0	0	-
132	19.4	Historical incidents	0	0	0	0	-
133	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
134 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
136 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	3	-	-	-
136	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
137	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
138	22.1	Underground railways (London)	0	0	0	-	-
138	22.2	Underground railways (Non-London)	0	0	0	-	-
139	22.3	Railway tunnels	0	0	0	-	-
139 >	22.4 >	Historical railway and tunnel features >	0	0	2	-	-
139	22.5	Royal Mail tunnels	0	0	0	-	-

139	22.6	Historical railways	0	0	0	-	-
140	22.7	Railways	0	0	0	-	-
140	22.8	Crossrail 1	0	0	0	0	-
140	22.9	Crossrail 2	0	0	0	0	-
140	22.10	HS2	0	0	0	0	-

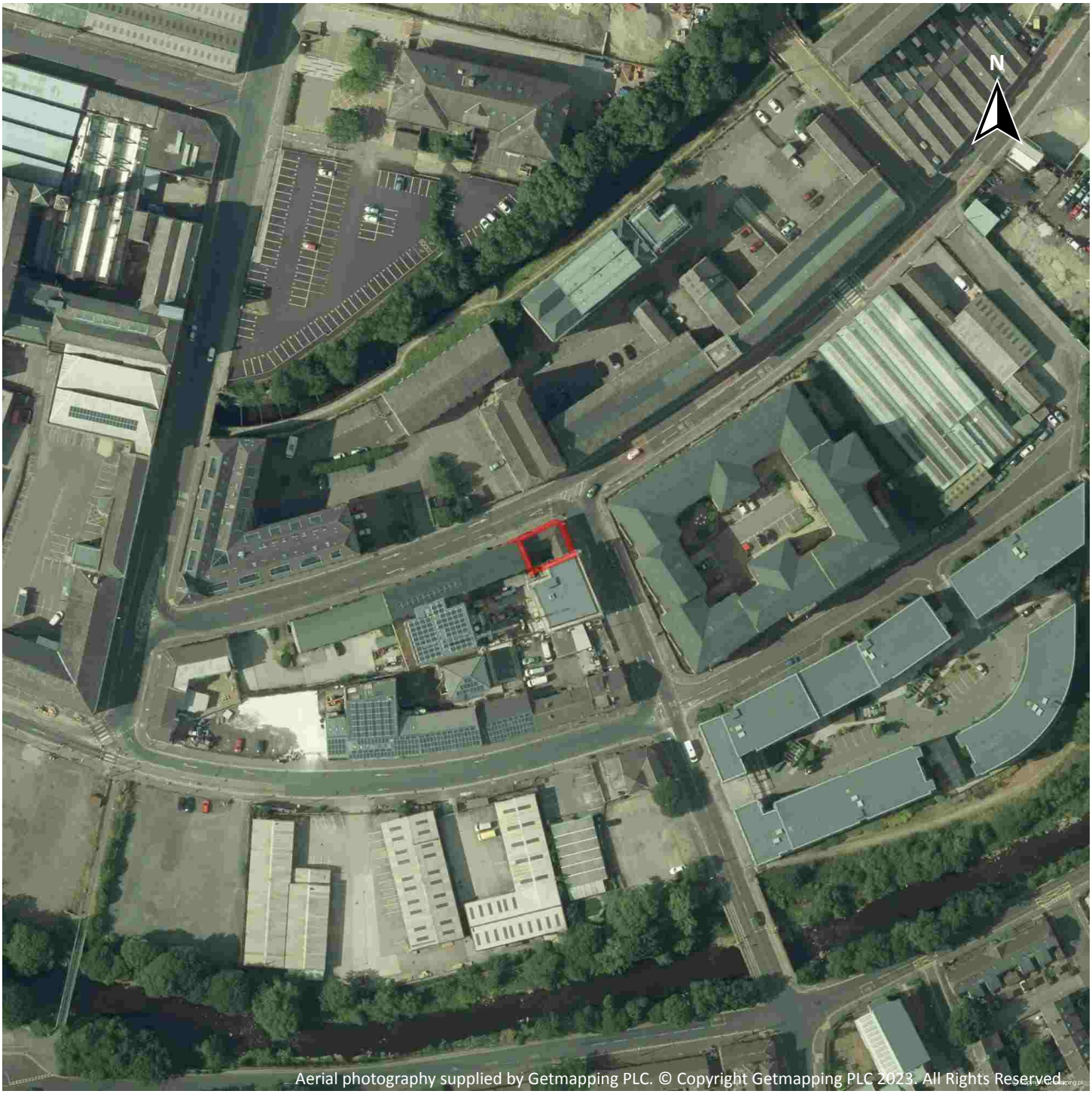
Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.01ha

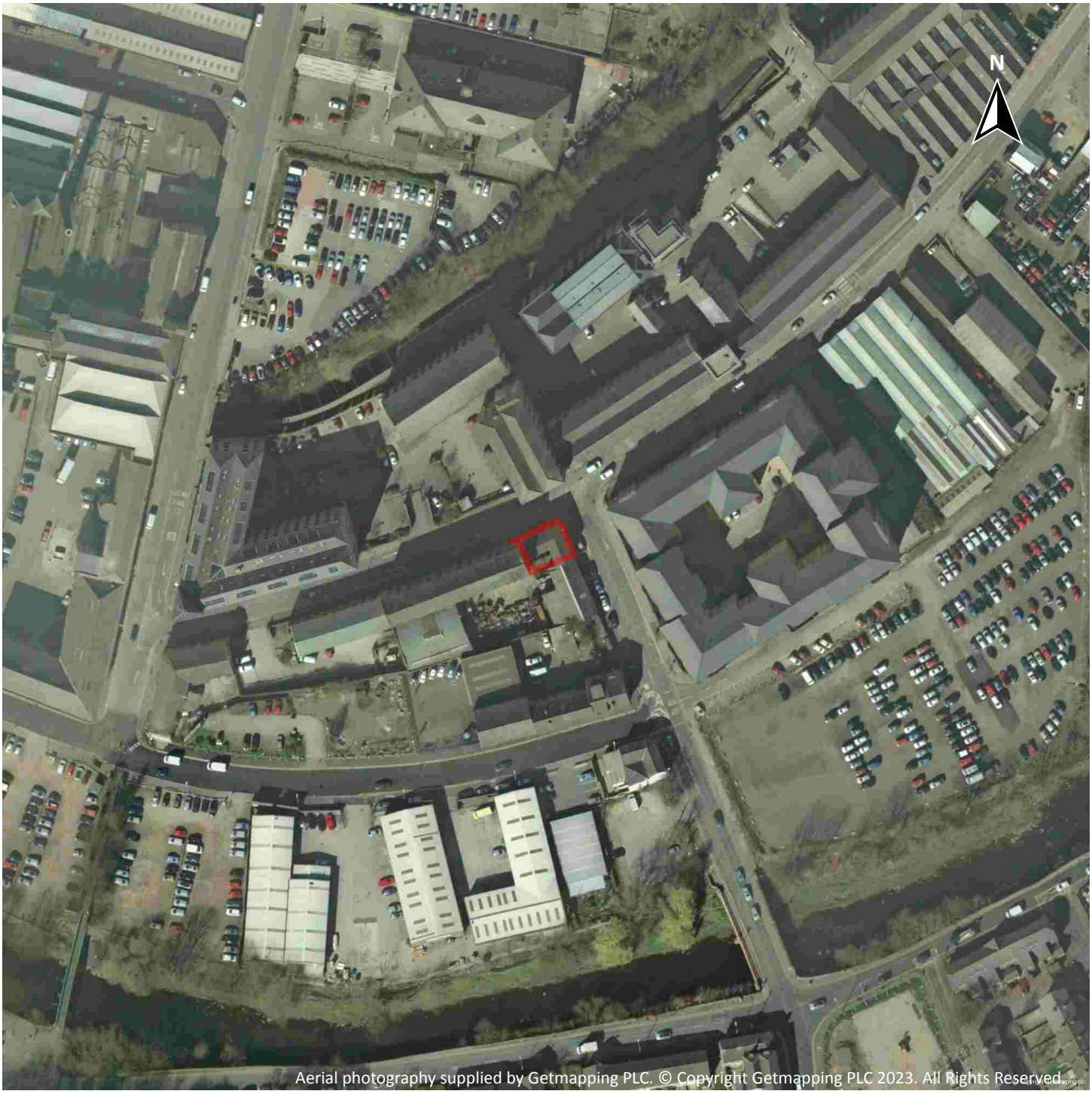
Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.01ha

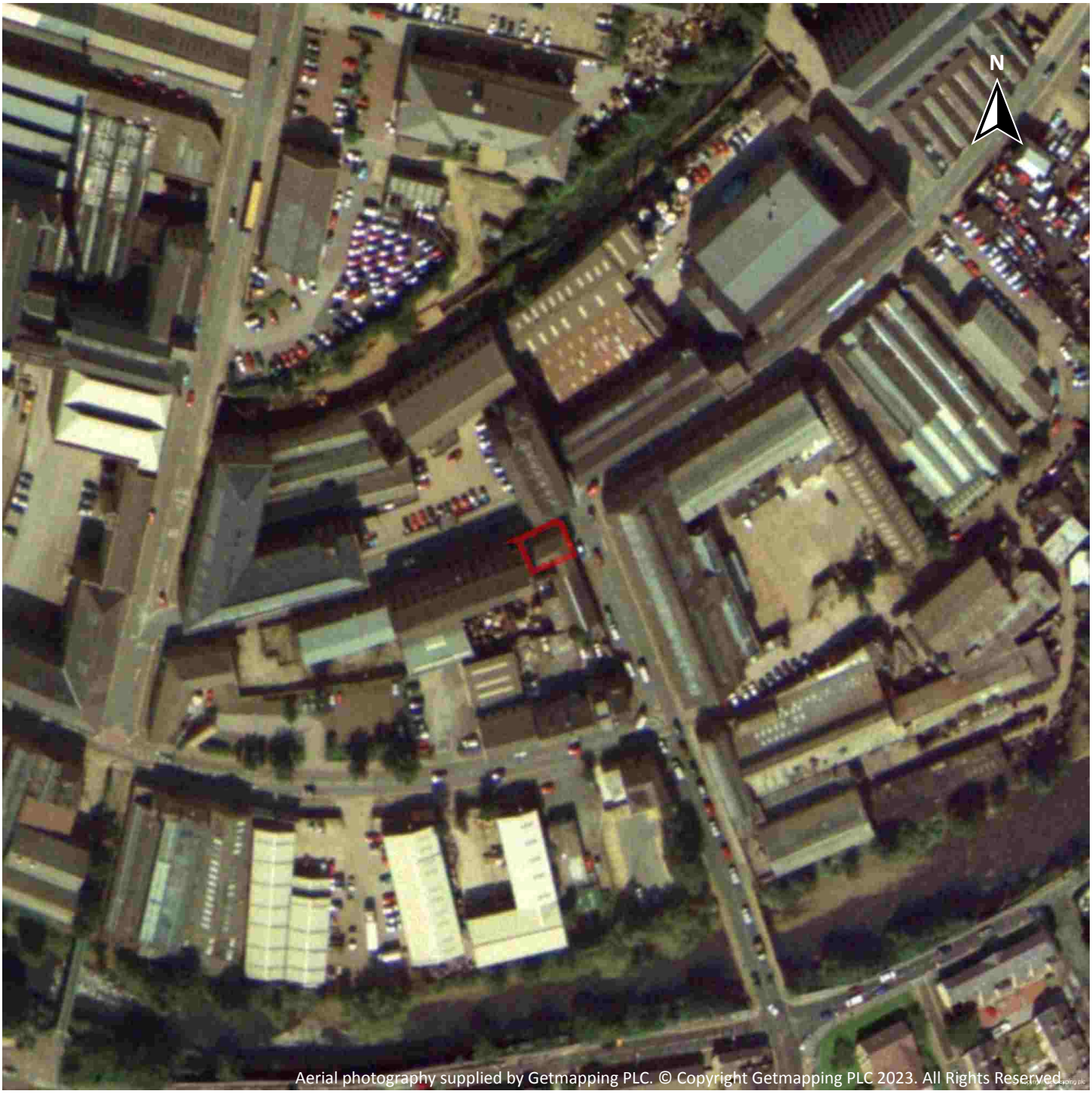
Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.01ha

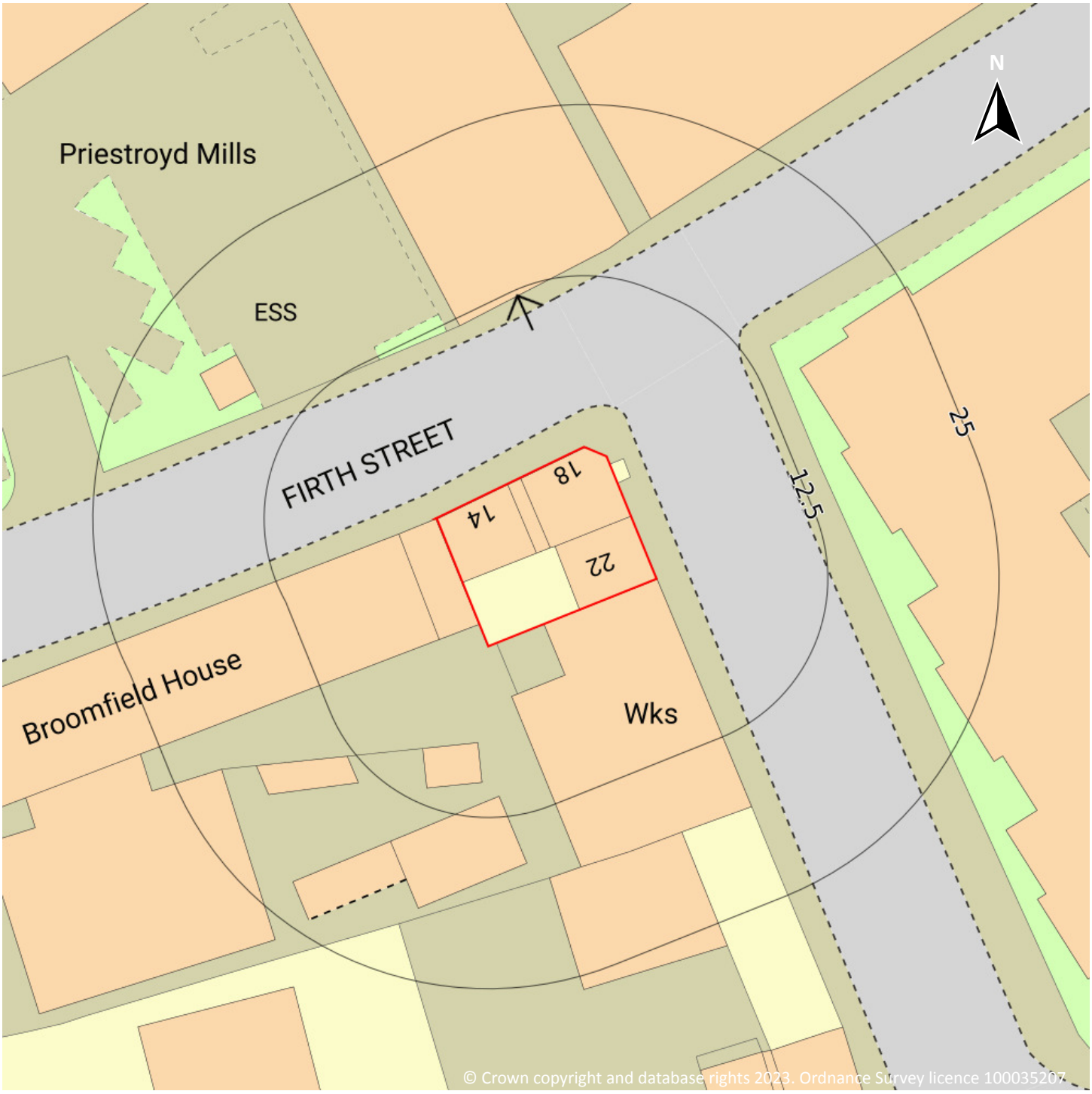
Recent site history - 2000 aerial photograph



Capture Date: 05/08/2000

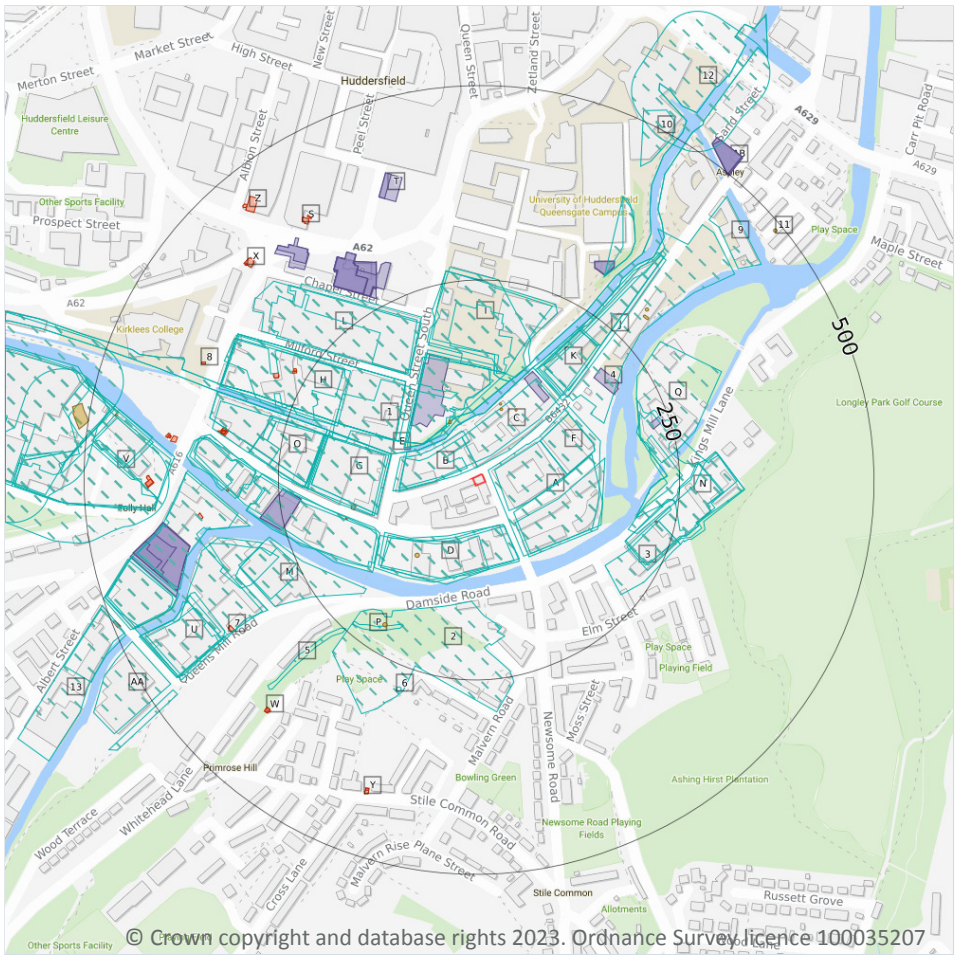
Site Area: 0.01ha

OS MasterMap site plan



Site Area: 0.01ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	100

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
A	9m NE	Unspecified Mills	1948	1471823

ID	Location	Land use	Dates present	Group ID
B	11m N	Unspecified Works	1966 - 1985	1494677
C	11m N	Unspecified Mills	1966 - 1985	1522101
B	15m NW	Iron Works	1938 - 1948	1500047
A	17m E	Unspecified Works	1966 - 1985	1534933
C	17m N	Iron Works	1956	1513178
A	54m SE	Unspecified Mills	1956	1548574
D	56m S	Unspecified Works	1956	1504109
D	57m S	Lead Works	1938 - 1948	1473403
D	60m S	Unspecified Works	1966 - 1975	1476084
E	62m NW	Disused Canal	1985	1487658
E	62m NW	Disused Canal	1975	1532635
D	65m S	Unspecified Works	1985	1535440
A	65m SE	Unspecified Works	1975 - 1985	1516282
C	67m NW	Unspecified Mills	1975	1493643
C	70m NW	Unspecified Mill	1938	1421223
C	73m NW	Unspecified Mills	1948	1525571
C	74m NW	Unspecified Mills	1956 - 1966	1505034
F	86m NE	Unspecified Commercial/Industrial	1975	1410486
F	86m NE	Unspecified Mills	1966	1473838
1	106m NW	Unspecified Mills	1985	1511980
G	109m W	Unspecified Commercial/Industrial	1975	1410485
G	109m W	Unspecified Mills	1956 - 1966	1543216
H	111m NW	Unspecified Commercial/Industrial	1966	1410484
H	111m NW	Unspecified Mills	1975	1459568
H	111m NW	Unspecified Mills	1956	1515686
G	112m W	Unspecified Mill	1938	1421224
G	115m W	Road Mills	1948	1411403
I	125m N	Iron Works	1956	1488230

ID	Location	Land use	Dates present	Group ID
I	131m N	Iron Works	1948	1475668
I	132m N	Iron Works	1938	1537735
I	134m N	Unspecified Works	1966 - 1985	1550031
G	138m SW	Unspecified Foundry	1948 - 1956	1476879
J	140m NE	Unspecified Mills	1889	1470731
G	141m SW	Unspecified Mills	1966 - 1975	1544013
G	142m SW	Unspecified Foundry	1938	1485871
K	143m NE	Unspecified Mill	1948	1421226
K	145m NE	Unspecified Mills	1938	1511092
J	149m NE	Unspecified Mills	1975 - 1985	1539164
2	149m S	Colliery	1905	1411913
J	155m NE	Unspecified Mills	1956	1502076
L	156m NW	Unspecified Works	1966 - 1985	1482223
L	158m NW	Iron Works	1938	1500907
L	160m NW	Iron Works	1948 - 1956	1480869
H	187m W	Unspecified Mill	1938	1421225
3	188m SE	Unspecified Works	1985	1438172
H	191m W	Unspecified Works	1985	1438171
M	194m SW	Unspecified Mills	1975 - 1985	1472230
N	194m E	Unspecified Mill	1889 - 1985	1532192
N	195m SE	Unspecified Mills	1948 - 1956	1541566
O	195m W	Unspecified Mills	1985	1483991
N	196m E	Unspecified Mills	1938	1517415
O	197m W	Unspecified Mills	1956	1465688
O	197m W	Unspecified Works	1966	1549801
O	197m W	Unspecified Mills	1938 - 1948	1515363
N	199m E	Unspecified Mills	1938	1518359
O	199m W	Unspecified Mills	1975	1494701

ID	Location	Land use	Dates present	Group ID
N	199m E	Unspecified Mills	1905	1491999
N	201m SE	Unspecified Mills	1966 - 1975	1526425
P	202m SW	Unspecified Ground Workings	1905	1412290
H	205m NW	Unspecified Mills	1948	1525645
Q	207m E	Unspecified Mill	1975 - 1985	1471989
J	223m NE	Unspecified Mills	1938 - 1948	1532475
5	249m SW	Unspecified Ground Workings	1905	1412289
M	252m SW	Unspecified Mill	1966	1537618
O	263m W	Unspecified Works	1975 - 1985	1461218
M	269m W	Unspecified Mill	1889	1488554
6	277m S	Unspecified Old Shaft	1938	1501958
O	279m W	Unspecified Mills	1938	1557252
O	279m W	Unspecified Mills	1956	1551384
M	282m W	Unspecified Works	1966 - 1975	1472087
O	293m W	Unspecified Mills	1905	1478451
J	300m NE	Unspecified Heap	1905	1498522
J	300m NE	Unspecified Heap	1948	1503957
O	302m W	Unspecified Mills	1948	1482263
O	305m W	Unspecified Works	1966 - 1985	1519058
U	373m SW	Unspecified Mill	1956 - 1966	1491563
U	378m SW	Unspecified Mill	1938	1499021
U	380m SW	Unspecified Mill	1975	1518459
V	385m W	Unspecified Mills	1985	1478927
U	387m SW	Unspecified Mill	1948	1550315
V	389m W	Unspecified Mills	1938	1554369
V	391m W	Unspecified Mills	1975	1551833
V	406m W	Unspecified Mills	1948 - 1975	1555608
O	406m W	Unspecified Mills	1956 - 1985	1492421

ID	Location	Land use	Dates present	Group ID
V	406m W	Unspecified Mills	1938	1506770
O	411m W	Unspecified Mill	1938	1421229
V	415m W	Unspecified Mills	1948 - 1956	1528180
O	415m W	Unspecified Mills	1948	1542876
9	423m NE	Unspecified Mills	1975 - 1985	1464357
10	446m NE	Unspecified Heap	1966 - 1975	1553008
V	465m W	Unspecified Works	1975	1532127
AA	468m SW	Unspecified Works	1966 - 1975	1486049
AA	468m SW	Rope Walk	1905	1409206
V	469m W	Unspecified Works	1956	1551853
V	469m W	Unspecified Works	1938	1540121
V	475m W	Unspecified Works	1948	1472819
O	489m SW	Unspecified Works	1966	1556418
12	489m NE	Unspecified Wharf	1956	1488489
13	490m SW	Unspecified Mills	1956	1468992

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**11**

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

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
C	76m NW	Unspecified Tank	1932	223258
C	86m N	Unspecified Tank	1993	223256
C	92m N	Unspecified Tank	1993	223254

ID	Location	Land use	Dates present	Group ID
C	93m NE	Unspecified Tank	1932	223257
D	114m SW	Unspecified Tank	1907	223260
P	211m SW	Unspecified Tank	1907	223263
J	290m NE	Tanks	1893	230367
J	298m NE	Unspecified Tank	1893	223255
V	464m W	Unspecified Tank	1932	223253
11	488m NE	Unspecified Tank	1907	223203
V	500m W	Tanks	1918 - 1932	234025

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**43**

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

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
G	154m W	Electricity Substation	1985	128984
G	169m W	Electricity Substation	1967	128985
N	224m E	Electricity Substation	1993 - 1995	135071
H	264m NW	Electricity Substation	1982	139827
H	265m NW	Electricity Substation	1970	146773
H	281m NW	Electricity Substation	1990 - 1996	135870
O	314m W	Electricity Substation	1967	128986
O	320m W	Electricity Substation	1985	133767
O	322m W	Electricity Substation	1994	134172
O	322m W	Electricity Substation	1995	134173

ID	Location	Land use	Dates present	Group ID
O	322m W	Electricity Substation	1990	134174
O	322m W	Electricity Substation	1988	134118
O	322m W	Electricity Substation	1967	134230
O	322m W	Electricity Substation	1995	132427
O	322m W	Electricity Substation	1993	132781
O	322m W	Electricity Substation	1996	132786
O	322m W	Electricity Substation	1970	134263
O	323m W	Electricity Substation	1982	132328
O	323m W	Electricity Substation	1990	132618
O	323m W	Electricity Substation	1990	133122
O	323m W	Electricity Substation	1990	133683
O	323m W	Electricity Substation	1990	134042
O	351m W	Electricity Substation	1985 - 1995	141450
7	361m SW	Electricity Substation	1985 - 1995	140807
8	374m NW	Electricity Substation	1970	128988
V	383m W	Electricity Substation	1994 - 1995	143726
S	390m NW	Electricity Substation	1970 - 1996	145061
W	391m SW	Electricity Substation	1967 - 1988	141324
V	391m W	Electricity Substations	1985	131572
W	391m SW	Electricity Substation	1994 - 1995	143157
V	392m W	Electricity Substation	1967 - 1988	144939
S	393m NW	Electricity Substation	1990	128975
X	393m NW	Electricity Substation	1982 - 1996	146659
X	400m NW	Electricity Substation	1970	139509
V	410m W	Electricity Substation	1985 - 1988	137427
V	411m W	Electricity Substation	1994	139868
Y	413m S	Electricity Substation	1967 - 1995	146056
Y	413m S	Electricity Substation	1985	141639

ID	Location	Land use	Dates present	Group ID
V	418m W	Electricity Substation	1995	128987
Z	443m NW	Electricity Substation	1993 - 1996	141953
Z	454m NW	Electricity Substation	1970 - 1990	145470
O	491m W	Electricity Substation	1985 - 1995	144312
O	492m W	Electricity Substation	1967 - 1988	134435

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	28

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

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
C	88m NW	Garage	1989 - 1993	46472
C	122m NE	Garage	1989 - 1993	46874
4	190m NE	Garage	1989 - 1993	44955
G	222m W	Garage	1958	42695
G	222m W	Garage	1959 - 1967	46595
Q	224m E	Garage	1989 - 1993	46005

ID	Location	Land use	Dates present	Group ID
R	262m NW	Garage	1993 - 1996	46292
R	268m NW	Garage	1962 - 1990	46986
R	269m NW	Garage	1970	43936
R	269m NW	Garage	1982	44183
R	276m NW	Garage	1960	41690
R	276m NW	Garage	1959	42124
J	301m NE	Garage	1960 - 1966	44559
J	301m NE	Garage	1959	42626
S	345m NW	Garage	1960	43209
S	350m NW	Garage	1959	42745
T	368m N	Garage	1960	42064
O	374m W	Garage	1985	42770
O	374m W	Garage	1994 - 1995	46340
O	374m W	Garage	1967	43691
T	376m N	Garage	1959	43659
O	391m W	Garage	1958	43104
O	414m W	Garage	1959 - 1988	46809
AB	498m NE	Garage	1993	43147
AB	498m NE	Garage	1989	42191
AB	499m NE	Garage	1960	41809
AB	499m NE	Garage	1966	41997
AB	499m NE	Garage	1959	42051

This data is sourced from Ordnance Survey / Groundsure.

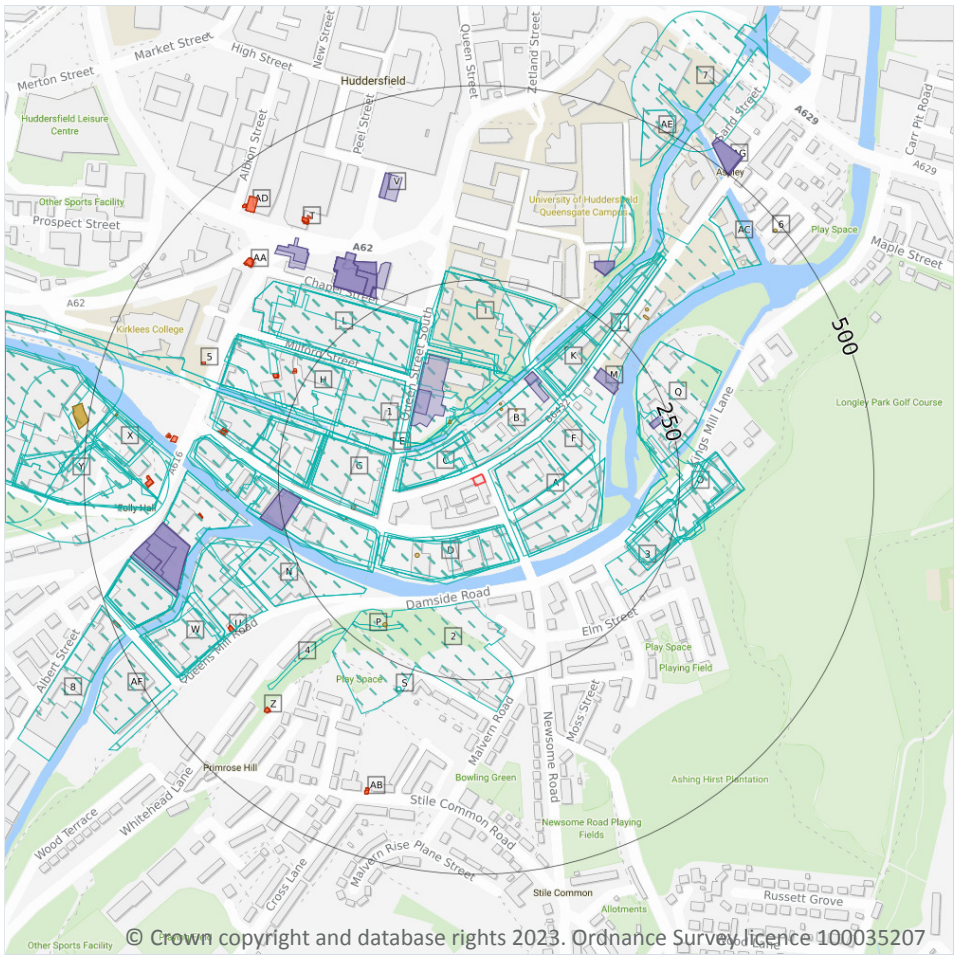
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	144

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

Features are displayed on the Past land use - un-grouped map on **page 23 >**

ID	Location	Land Use	Date	Group ID
A	9m NE	Unspecified Mills	1948	1471823
B	11m N	Unspecified Mills	1975	1522101
B	11m N	Unspecified Mills	1985	1522101

ID	Location	Land Use	Date	Group ID
B	11m N	Unspecified Mills	1966	1522101
C	11m N	Unspecified Works	1975	1494677
C	11m N	Unspecified Works	1985	1494677
C	11m N	Unspecified Works	1966	1494677
C	15m NW	Iron Works	1938	1500047
A	17m E	Unspecified Works	1975	1534933
A	17m E	Unspecified Works	1985	1534933
A	17m E	Unspecified Works	1966	1534933
B	17m N	Iron Works	1956	1513178
C	17m NW	Iron Works	1948	1500047
A	54m SE	Unspecified Mills	1956	1548574
D	56m S	Unspecified Works	1956	1504109
D	57m S	Lead Works	1948	1473403
D	58m S	Lead Works	1938	1473403
D	60m S	Unspecified Works	1975	1476084
D	60m S	Unspecified Works	1966	1476084
E	62m NW	Disused Canal	1975	1532635
E	62m NW	Disused Canal	1985	1487658
D	65m S	Unspecified Works	1985	1535440
A	65m SE	Unspecified Works	1975	1516282
A	65m SE	Unspecified Works	1985	1516282
B	67m NW	Unspecified Mills	1975	1493643
B	70m NW	Unspecified Mill	1938	1421223
B	73m NW	Unspecified Mills	1948	1525571
B	74m NW	Unspecified Mills	1956	1505034
B	74m NW	Unspecified Mills	1966	1505034
F	86m NE	Unspecified Commercial/Industrial	1975	1410486
F	86m NE	Unspecified Mills	1966	1473838

ID	Location	Land Use	Date	Group ID
1	106m NW	Unspecified Mills	1985	1511980
G	109m W	Unspecified Commercial/Industrial	1975	1410485
G	109m W	Unspecified Mills	1956	1543216
G	109m W	Unspecified Mills	1966	1543216
H	111m NW	Unspecified Mills	1975	1459568
H	111m NW	Unspecified Mills	1956	1515686
H	111m NW	Unspecified Commercial/Industrial	1966	1410484
G	112m W	Unspecified Mill	1938	1421224
G	115m W	Road Mills	1948	1411403
I	125m N	Iron Works	1956	1488230
I	131m N	Iron Works	1948	1475668
I	132m N	Iron Works	1938	1537735
I	134m N	Unspecified Works	1975	1550031
I	134m N	Unspecified Works	1985	1550031
I	134m N	Unspecified Works	1966	1550031
G	138m SW	Unspecified Foundry	1956	1476879
J	140m NE	Unspecified Mills	1889	1470731
G	141m SW	Unspecified Mills	1975	1544013
G	141m SW	Unspecified Mills	1966	1544013
G	142m SW	Unspecified Foundry	1938	1485871
K	143m NE	Unspecified Mill	1948	1421226
K	145m NE	Unspecified Mills	1938	1511092
J	149m NE	Unspecified Mills	1975	1539164
J	149m NE	Unspecified Mills	1985	1539164
2	149m S	Colliery	1905	1411913
G	150m SW	Unspecified Foundry	1948	1476879
J	155m NE	Unspecified Mills	1956	1502076
L	156m NW	Unspecified Works	1975	1482223

ID	Location	Land Use	Date	Group ID
L	156m NW	Unspecified Works	1985	1482223
L	156m NW	Unspecified Works	1966	1482223
L	158m NW	Iron Works	1938	1500907
L	160m NW	Iron Works	1948	1480869
L	161m NW	Iron Works	1956	1480869
H	187m W	Unspecified Mill	1938	1421225
3	188m SE	Unspecified Works	1985	1438172
H	191m W	Unspecified Works	1985	1438171
N	194m SW	Unspecified Mills	1975	1472230
N	194m SW	Unspecified Mills	1985	1472230
O	194m E	Unspecified Mill	1889	1532192
N	195m W	Unspecified Mills	1985	1483991
O	195m SE	Unspecified Mills	1948	1541566
O	196m E	Unspecified Mills	1938	1517415
N	197m W	Unspecified Mills	1956	1465688
N	197m W	Unspecified Works	1966	1549801
N	197m W	Unspecified Mills	1938	1515363
N	199m W	Unspecified Mills	1975	1494701
O	199m E	Unspecified Mills	1938	1518359
O	199m E	Unspecified Mills	1905	1491999
O	201m SE	Unspecified Mills	1975	1526425
O	201m SE	Unspecified Mills	1966	1526425
P	202m SW	Unspecified Ground Workings	1905	1412290
O	204m E	Unspecified Mills	1956	1541566
N	204m W	Unspecified Mills	1948	1515363
H	205m NW	Unspecified Mills	1948	1525645
Q	207m E	Unspecified Mill	1975	1471989
Q	207m E	Unspecified Mill	1985	1471989

ID	Location	Land Use	Date	Group ID
J	223m NE	Unspecified Mills	1948	1532475
J	225m NE	Unspecified Mills	1938	1532475
O	228m E	Unspecified Mill	1985	1532192
4	249m SW	Unspecified Ground Workings	1905	1412289
N	252m SW	Unspecified Mill	1966	1537618
N	263m W	Unspecified Works	1975	1461218
N	268m W	Unspecified Works	1985	1461218
N	269m W	Unspecified Mill	1889	1488554
S	277m S	Unspecified Old Shaft	1938	1501958
S	277m S	Unspecified Old Shaft	1938	1501958
N	279m W	Unspecified Mills	1938	1557252
N	279m W	Unspecified Mills	1956	1551384
N	282m W	Unspecified Works	1975	1472087
N	293m W	Unspecified Mills	1905	1478451
J	300m NE	Unspecified Heap	1948	1503957
J	300m NE	Unspecified Heap	1905	1498522
N	302m W	Unspecified Mills	1948	1482263
N	305m W	Unspecified Works	1975	1519058
N	305m W	Unspecified Works	1985	1519058
N	305m W	Unspecified Works	1966	1519058
N	310m W	Unspecified Works	1966	1472087
W	373m SW	Unspecified Mill	1956	1491563
W	373m SW	Unspecified Mill	1966	1491563
W	378m SW	Unspecified Mill	1938	1499021
W	380m SW	Unspecified Mill	1975	1518459
X	385m W	Unspecified Mills	1985	1478927
W	387m SW	Unspecified Mill	1948	1550315
X	389m W	Unspecified Mills	1938	1554369

ID	Location	Land Use	Date	Group ID
Y	391m W	Unspecified Mills	1975	1551833
Y	406m W	Unspecified Mills	1956	1555608
N	406m W	Unspecified Mills	1975	1492421
N	406m W	Unspecified Mills	1956	1492421
N	406m W	Unspecified Mills	1985	1492421
N	406m W	Unspecified Mills	1966	1492421
Y	406m W	Unspecified Mills	1938	1506770
Y	406m W	Unspecified Mills	1985	1478927
N	411m W	Unspecified Mill	1938	1421229
X	414m W	Unspecified Mills	1975	1555608
X	415m W	Unspecified Mills	1956	1528180
N	415m W	Unspecified Mills	1948	1542876
X	421m W	Unspecified Mills	1948	1528180
AC	423m NE	Unspecified Mills	1975	1464357
AC	423m NE	Unspecified Mills	1985	1464357
Y	439m W	Unspecified Mills	1966	1555608
Y	440m W	Unspecified Mills	1948	1555608
AE	446m NE	Unspecified Heap	1975	1553008
AE	446m NE	Unspecified Heap	1966	1553008
X	465m W	Unspecified Works	1975	1532127
AF	468m SW	Unspecified Works	1975	1486049
AF	468m SW	Unspecified Works	1966	1486049
AF	468m SW	Rope Walk	1905	1409206
X	469m W	Unspecified Works	1956	1551853
X	469m W	Unspecified Works	1938	1540121
X	475m W	Unspecified Works	1948	1472819
N	489m SW	Unspecified Works	1966	1556418
7	489m NE	Unspecified Wharf	1956	1488489

ID	Location	Land Use	Date	Group ID
8	490m SW	Unspecified Mills	1956	1468992

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	12

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

Features are displayed on the Past land use - un-grouped map on **page 23 >**

ID	Location	Land Use	Date	Group ID
B	76m NW	Unspecified Tank	1932	223258
B	86m N	Unspecified Tank	1993	223256
B	92m N	Unspecified Tank	1993	223254
B	93m NE	Unspecified Tank	1932	223257
D	114m SW	Unspecified Tank	1907	223260
P	211m SW	Unspecified Tank	1907	223263
J	290m NE	Tanks	1893	230367
J	298m NE	Unspecified Tank	1893	223255
X	464m W	Unspecified Tank	1932	223253
6	488m NE	Unspecified Tank	1907	223203
X	500m W	Tanks	1918	234025
X	500m W	Tanks	1932	234025

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	93

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

Features are displayed on the Past land use - un-grouped map on **page 23 >**

ID	Location	Land Use	Date	Group ID
G	154m W	Electricity Substation	1985	128984
G	169m W	Electricity Substation	1967	128985
O	224m E	Electricity Substation	1993	135071
O	224m E	Electricity Substation	1995	135071
H	264m NW	Electricity Substation	1982	139827
H	265m NW	Electricity Substation	1970	146773
H	281m NW	Electricity Substation	1993	135870
H	281m NW	Electricity Substation	1995	135870
H	281m NW	Electricity Substation	1996	135870
H	282m NW	Electricity Substation	1990	135870
H	283m NW	Electricity Substation	1990	135870
H	283m NW	Electricity Substation	1990	135870
H	283m NW	Electricity Substation	1990	135870
H	283m NW	Electricity Substation	1990	135870
N	314m W	Electricity Substation	1967	128986
N	320m W	Electricity Substation	1985	133767
N	322m W	Electricity Substation	1990	134174
N	322m W	Electricity Substation	1988	134118
N	322m W	Electricity Substation	1967	134230
N	322m W	Electricity Substation	1993	132781
N	322m W	Electricity Substation	1995	132427
N	322m W	Electricity Substation	1996	132786
N	322m W	Electricity Substation	1970	134263
N	323m W	Electricity Substation	1994	134172
N	323m W	Electricity Substation	1995	134173
N	323m W	Electricity Substation	1982	132328
N	323m W	Electricity Substation	1990	134042

ID	Location	Land Use	Date	Group ID
N	323m W	Electricity Substation	1990	133683
N	323m W	Electricity Substation	1990	132618
N	323m W	Electricity Substation	1990	133122
N	351m W	Electricity Substation	1985	141450
N	351m W	Electricity Substation	1988	141450
N	352m W	Electricity Substation	1994	141450
N	352m W	Electricity Substation	1995	141450
U	361m SW	Electricity Substation	1985	140807
U	361m SW	Electricity Substation	1988	140807
U	362m SW	Electricity Substation	1994	140807
U	362m SW	Electricity Substation	1995	140807
5	374m NW	Electricity Substation	1970	128988
X	383m W	Electricity Substation	1994	143726
X	383m W	Electricity Substation	1995	143726
T	390m NW	Electricity Substation	1993	145061
T	390m NW	Electricity Substation	1995	145061
T	390m NW	Electricity Substation	1996	145061
Z	391m SW	Electricity Substation	1988	141324
Z	391m SW	Electricity Substation	1967	141324
Z	391m SW	Electricity Substation	1985	141324
X	391m W	Electricity Substations	1985	131572
Z	391m SW	Electricity Substation	1994	143157
Z	391m SW	Electricity Substation	1995	143157
T	392m NW	Electricity Substation	1970	145061
T	392m NW	Electricity Substation	1982	145061
T	392m NW	Electricity Substation	1990	145061
T	392m NW	Electricity Substation	1990	145061
T	392m NW	Electricity Substation	1990	145061

ID	Location	Land Use	Date	Group ID
T	392m NW	Electricity Substation	1990	145061
X	392m W	Electricity Substation	1988	144939
X	392m W	Electricity Substation	1967	144939
T	393m NW	Electricity Substation	1990	128975
AA	393m NW	Electricity Substation	1993	146659
AA	393m NW	Electricity Substation	1995	146659
AA	393m NW	Electricity Substation	1996	146659
AA	394m NW	Electricity Substation	1990	146659
AA	395m NW	Electricity Substation	1982	146659
AA	395m NW	Electricity Substation	1990	146659
AA	395m NW	Electricity Substation	1990	146659
AA	395m NW	Electricity Substation	1990	146659
AA	395m NW	Electricity Substation	1990	146659
AA	400m NW	Electricity Substation	1970	139509
X	410m W	Electricity Substation	1985	137427
X	411m W	Electricity Substation	1988	137427
X	411m W	Electricity Substation	1994	139868
AB	413m S	Electricity Substation	1994	146056
AB	413m S	Electricity Substation	1995	146056
AB	413m S	Electricity Substation	1988	146056
AB	413m S	Electricity Substation	1967	146056
AB	413m S	Electricity Substation	1985	141639
X	418m W	Electricity Substation	1995	128987
AD	443m NW	Electricity Substation	1993	141953
AD	443m NW	Electricity Substation	1995	141953
AD	443m NW	Electricity Substation	1996	141953
AD	454m NW	Electricity Substation	1990	145470
AD	454m NW	Electricity Substation	1970	145470

ID	Location	Land Use	Date	Group ID
AD	455m NW	Electricity Substation	1982	145470
AD	455m NW	Electricity Substation	1990	145470
AD	455m NW	Electricity Substation	1990	145470
AD	455m NW	Electricity Substation	1990	145470
AD	455m NW	Electricity Substation	1990	145470
N	491m W	Electricity Substation	1985	144312
N	492m W	Electricity Substation	1988	134435
N	492m W	Electricity Substation	1967	134435
N	492m W	Electricity Substation	1994	144312
N	492m W	Electricity Substation	1995	144312

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	44

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

Features are displayed on the Past land use - un-grouped map on **page 23 >**

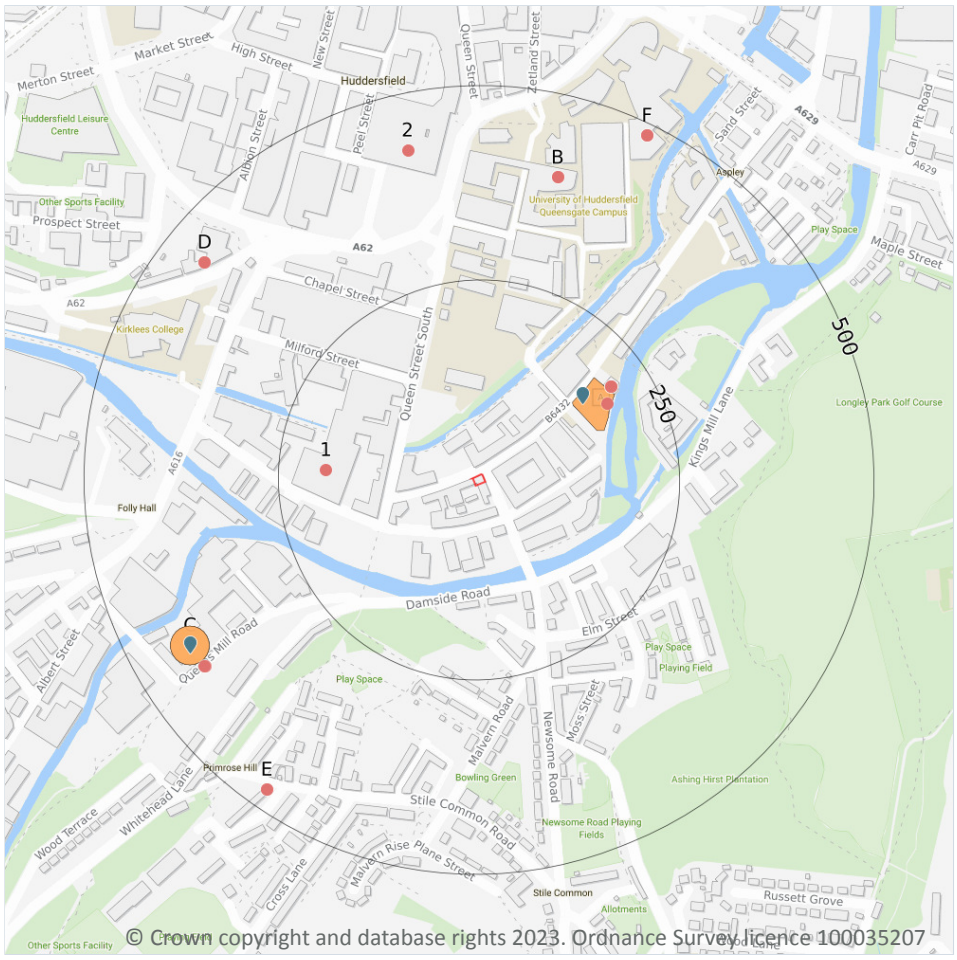
ID	Location	Land Use	Date	Group ID
B	88m NW	Garage	1993	46472
B	101m NW	Garage	1989	46472
B	122m NE	Garage	1993	46874

ID	Location	Land Use	Date	Group ID
B	131m NE	Garage	1989	46874
M	190m NE	Garage	1993	44955
M	190m NE	Garage	1989	44955
G	222m W	Garage	1958	42695
G	222m W	Garage	1967	46595
G	222m W	Garage	1959	46595
Q	224m E	Garage	1993	46005
Q	224m E	Garage	1989	46005
R	262m NW	Garage	1993	46292
R	262m NW	Garage	1995	46292
R	262m NW	Garage	1996	46292
R	268m NW	Garage	1966	46986
R	268m NW	Garage	1962	46986
R	269m NW	Garage	1990	46986
R	269m NW	Garage	1970	43936
R	269m NW	Garage	1982	44183
R	269m NW	Garage	1990	46986
R	269m NW	Garage	1990	46986
R	269m NW	Garage	1990	46986
R	269m NW	Garage	1990	46986
R	276m NW	Garage	1960	41690
R	276m NW	Garage	1959	42124
J	301m NE	Garage	1960	44559
J	301m NE	Garage	1966	44559
J	301m NE	Garage	1959	42626
T	345m NW	Garage	1960	43209
T	350m NW	Garage	1959	42745
V	368m N	Garage	1960	42064

ID	Location	Land Use	Date	Group ID
N	374m W	Garage	1985	42770
N	374m W	Garage	1994	46340
N	374m W	Garage	1995	46340
N	374m W	Garage	1967	43691
V	376m N	Garage	1959	43659
N	391m W	Garage	1958	43104
N	414m W	Garage	1988	46809
N	415m W	Garage	1959	46809
AG	498m NE	Garage	1993	43147
AG	498m NE	Garage	1989	42191
AG	499m NE	Garage	1960	41809
AG	499m NE	Garage	1966	41997
AG	499m NE	Garage	1959	42051

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical waste sites

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	5

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

Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Address	Further Details	Date
A	147m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1988
A	147m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993

ID	Location	Address	Further Details	Date
C	396m SW	Site Address: Scotland Yard, Queens Mill Road, Lockwood, HUDDERSFIELD, West Yorkshire, HD1 3PG	Type of Site: Waste Transfer station (Extension) Planning application reference: 96/62/91632/W0 Description: Scheme includes demolition work. Construction - Concrete block & steel cladding walls; Steel cladding roofing. An application (ref: 96/62/91632/W0) for Detailed Planning permission was submitted to Kirklees B.C. on 4th June 1996. Data source: Historic Planning Application Data Type: Point	-
C	396m SW	Site Address: CGM Construction, Queens Mill Road, Lockwood, HUDDERSFIELD, West Yorkshire, HD1 6AT	Type of Site: Waste Transfer Station Unit Planning application reference: 2003/60/95168/W0 Description: Scheme comprises of a replacement building to be used in connection with proposed waste transfer station. An application (ref: 2003/60/95168/W0) for Outline Planning permission was submitted to Kirklees B.C. on 6th January 2004. Data source: Historic Planning Application Data Type: Point	-
C	396m SW	Site Address: Queens Mill Road, Lockwood, HUDDERSFIELD, West Yorkshire, HD	Type of Site: Waste Transfer Station (C/u) Planning application reference: 95/62/90543/W0 Description: Change of use of builders yard into waste transfer station. An application (ref: 95/62/90543/W0) for Detailed Planning permission was submitted to Kirklees B.C. on 27th February 1995. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	7

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

Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Details		
A	164m NE	Site Name: Albert Haigh & Son Ltd Site Address: Land/premises At, Firth Street, Huddersfield, West Yorkshire, HD1 3BD Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ELL002 EPR reference: EA/EPR/ZP3594ZH/A001 Operator: Albert Haigh & Son Limited Waste Management licence No: 65065 Annual Tonnage: 4999	Issue Date: 29/06/2000 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	164m NE	Site Name: Albert Haigh & Son Ltd Site Address: Land/premises At, Firth Street, Huddersfield, West Yorkshire, HD1 3BD Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ELL002 EPR reference: EA/EPR/ZP3594ZH/A001 Operator: Ellis Barrie K Waste Management licence No: 65065 Annual Tonnage: 4999	Issue Date: 29/06/2000 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	164m NE	Site Name: Albert Haigh & Son Ltd Site Address: Albert Haigh & Son Limited, Albert Haigh & Son Ltd, Firth Street, Huddersfield, West Yorkshire, HD1 3BD Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654230 EPR reference: EA/EPR/ZP3594ZH Operator: Albert Haigh & Son Limited Waste Management licence No: 65065 Annual Tonnage: 4999	Issue Date: 29/06/2000 Effective Date: 29/06/2000 Modified: 29/06/2000 Surrendered Date: - Expiry Date: - Cancelled Date: 29/06/2000 Status: Issued

ID	Location	Details		
C	421m SW	Site Name: Scotland Yard Site Address: Scotland Yard, Queens Mill Road, Lockwood, Huddersfield, West Yorkshire, HD1 3PG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JSB009 EPR reference: EA/EPR/DB3534AB/T001 Operator: J S Bamforth & Co Ltd Waste Management licence No: 65045 Annual Tonnage: 100000	Issue Date: 25/01/1999 Effective Date: 05/01/2012 Modified: 04/02/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
C	421m SW	Site Name: Scotland Yard Site Address: Scotland Yard, Queens Mill Road, Lockwood, Huddersfield, West Yorkshire, HD1 3PG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000085 EPR reference: EA/EPR/FP3194ZX/V002 Operator: Huddersfield Skip Hire Services Ltd Waste Management licence No: 65045 Annual Tonnage: 100000	Issue Date: 25/01/1999 Effective Date: 29/01/2004 Modified: 04/02/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	421m SW	Site Name: Scotland Yard Site Address: Scotland Yard, Queens Mill Road, Lockwood, Huddersfield, West Yorkshire, HD1 3PG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HUN059 EPR reference: EA/EPR/AB3206TC/T001 Operator: Hunter Group Yorkshire Ltd Waste Management licence No: 65045 Annual Tonnage: 100000	Issue Date: 25/01/1999 Effective Date: 27/08/2013 Modified: 04/02/2005 Surrendered Date: - Expiry Date: 27/02/2017 Cancelled Date: - Status: Revoked

ID	Location	Details		
C	421m SW	Site Name: Scotland Yard Site Address: Hunter Group Yorkshire Limited, Scotland Yard, Queens Mill Road, Lockwood, Huddersfield, West Yorkshire, HD1 3PG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 648775 EPR reference: EA/EPR/AB3206TC Operator: Hunter Group Yorkshire Limited Waste Management licence No: 65045 Annual Tonnage: 100000	Issue Date: 25/01/1999 Effective Date: 25/01/1999 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 25/01/1999 Status: Revoked

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

3.7 Waste exemptions

Records within 500m **19**

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

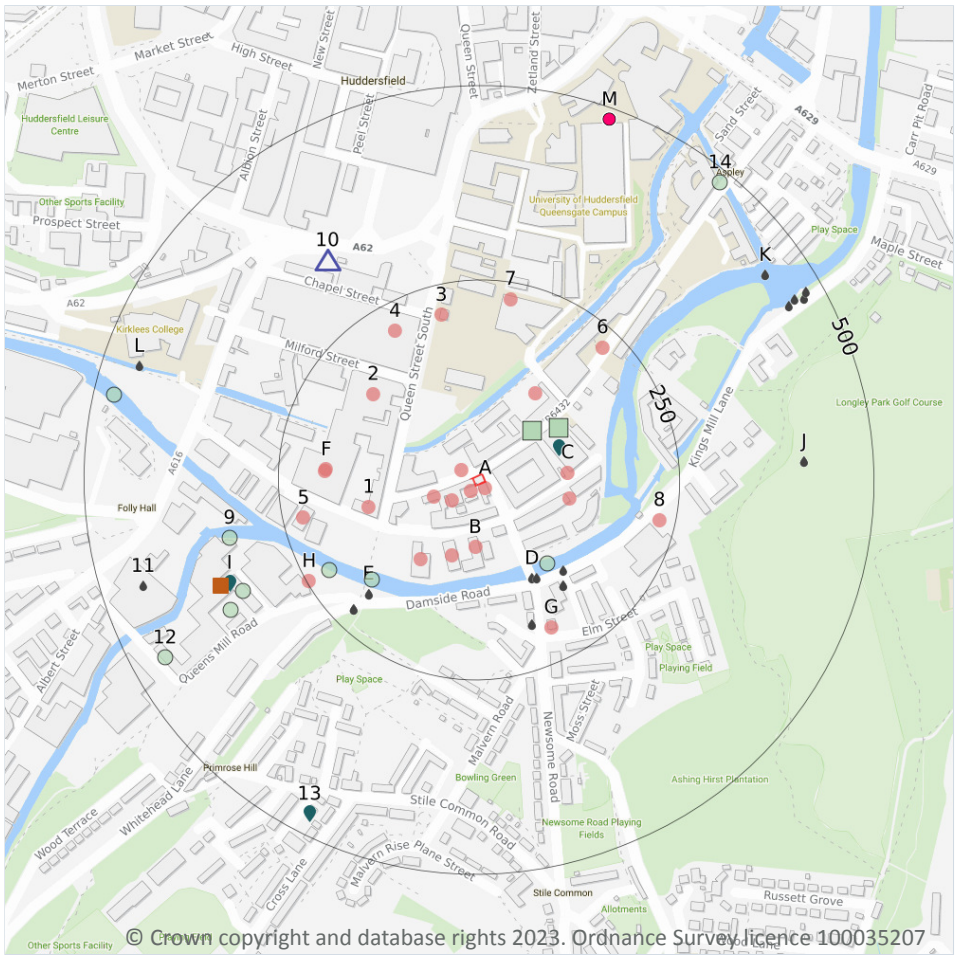
Features are displayed on the Waste and landfill map on **page 36 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	185m NE	FIRTH STREET HUDDERSFIELD HD1 3BD	EPR/VF0102SL/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
1	189m W	COLNE ROAD, HUDDERSFIELD, HD1 3ES	WEX246388	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	200m NE	FIRTH STREET, HUDDERSFIELD, HD1 3BD	WEX110887	Treating waste exemption	Not on a farm	Recovery of scrap metal
A	200m NE	FIRTH STREET, HUDDERSFIELD, HD1 3BD	WEX110887	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
A	200m NE	FIRTH STREET, HUDDERSFIELD, HD1 3BD	WEX252151	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
A	200m NE	FIRTH STREET, HUDDERSFIELD, HD1 3BD	WEX252151	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	394m N	University of Huddersfield NSTL, Commercial Street, Huddersfield, HD1 3DR	WEX134318	Using waste exemption	Not on a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
B	394m N	-	WEX276521	Using waste exemption	Not on a farm	Use of waste in construction
C	419m SW	Scotland Yard and land adjacent HUDDERSFIELD West Yorkshire HD1 3PG	EPR/NE5188ZB/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	419m SW	Scotland Yard and land adjacent HUDDERSFIELD West Yorkshire HD1 3PG	EPR/NE5188ZB/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	420m SW	Scotland Yard Queens Mill Road Huddersfield West Yorkshire HD1 3PG	EPR/RE5656RP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
2	427m N	Queensgate Market Arcade Market Office Princess Alexandra Walk HUDDERSFIELD HD1 2UJ	EPR/SF0232JD/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
D	443m NW	Change Grow Live, 20 Manchester Road, Huddersfield, HD1 3HJ, HD1 3HJ	WEX365709	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	443m NW	CHANGE GROW LIVE, 1st & 2nd Floor, 20 Manchester Road, Huddersfield, HD1 3HJ	WEX322926	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	475m SW	Aden Mount Care Home, Perseverance Street, Primrose Hill, Huddersfield, HD4 6AP	WEX226832	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	475m SW	-	WEX353061	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	485m NE	QUEENSGATE, HUDDERSFIELD, HD1 3DH	WEX045657	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	485m NE	QUEENSGATE, HUDDERSFIELD, HD1 3DH	WEX031534	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
F	485m NE	QUEENSGATE HUDDERSFIELD HD1 3DH	WEX012776	Treating waste exemption	Not on a farm	Screening and blending of waste

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	23

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Company	Address	Activity	Category
A	8m SE	Works	West Yorkshire, HD1	Unspecified Works Or Factories	Industrial Features
A	10m SW	Crane	West Yorkshire, HD1	Travelling Cranes and Gantries	Industrial Features
A	18m NW	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
A	36m SW	Albert Haighs & Son	The Courtyard Block A, Firth Street, Huddersfield, West Yorkshire, HD1 3FN	Scrap Metal Merchants	Recycling Services
A	55m W	Olympus Technologies Ltd	Olympus Technologies Melbourne Works 8, Firth Street, Huddersfield, West Yorkshire, HD1 3BA	Tools Including Machine Shops	Industrial Products
B	79m S	Iridex Engineering Co Ltd	Unit 1 Riverside Works, Colne Road, Huddersfield, West Yorkshire, HD1 3AY	General Construction Supplies	Industrial Products
B	94m S	Just Tyres	Fenwick House Riverbank Works, Colne Road, Huddersfield, West Yorkshire, HD1 3ER	Vehicle Parts and Accessories	Motoring
C	107m E	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
C	110m E	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
B	118m SW	Works	West Yorkshire, HD1	Unspecified Works Or Factories	Industrial Features
C	125m NE	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
1	139m W	Orange Box Ltd	Bates Mill, Queen Street South, Huddersfield, West Yorkshire, HD1 3AG	Office and Shop Equipment	Industrial Products
2	168m NW	Yorkshire Fur Fabrics	Fairfield Mills, Milford Street, Huddersfield, West Yorkshire, HD1 3DU	Textiles, Fabrics, Silk and Machinery	Industrial Products
F	189m W	Wood Auto Supplies Ltd	-, Colne Road, Huddersfield, West Yorkshire, HD1 3ES	Vehicle Parts and Accessories	Motoring
F	190m W	Works	West Yorkshire, HD1	Unspecified Works Or Factories	Industrial Features
G	206m SE	Electricity Sub Station	West Yorkshire, HD4	Electrical Features	Infrastructure and Facilities
3	211m N	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
4	214m NW	Thomas Broadbent & Sons Ltd	Queen Street South, -, Huddersfield, West Yorkshire, HD1 3EA	General Purpose Machinery	Industrial Products
5	224m W	Walker & Balmforth	-, Colne Road, Huddersfield, West Yorkshire, HD1 3ER	Vehicle Repair, Testing and Servicing	Repair and Servicing
6	225m NE	Chimney	West Yorkshire, HD1	Chimneys	Industrial Features

ID	Location	Company	Address	Activity	Category
7	229m N	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
8	229m E	Electricity Sub Station	West Yorkshire, HD1	Electrical Features	Infrastructure and Facilities
H	247m SW	Factory	West Yorkshire, HD1	Unspecified Works Or Factories	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Company	Address	LPG	Status
10	337m NW	OBSOLETE	Queensgate, Huddersfield, West Yorkshire, HD1 2RD	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	3

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Address	Details	
C	104m E	Barrie K Ellis, Firth St, Huddersfield, Firth Street, HD1 3RD	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	340m W	Daval Furniture Ltd, Queens Mill Rd, Huddersfield, HD1 3PG	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	473m SW	Save Service Station (Huddersfield), Stile Common Rd, Newsome, Huddersfield, HD4 6DD	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	4

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Address	Details	
M	485m N	Huddersfield Polytechnic, Queensgate, Huddersfield, HD1 3DH	Operator: Huddersfield Polytechnic Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC0885 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled
M	485m N	University Of Huddersfield, Queensgate, Huddersfield, West Yorkshire, HD1 3DH	Operator: University Of Huddersfield Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AC0923 Date of approval: 04/01/2000	Effective from: 04/01/2000 Last date of update: 01/01/2015 Status: Revoked/cancelled
M	485m N	University Of Huddersfield, Queensgate, Huddersfield, West Yorkshire, HD1 3DH	Operator: University Of Huddersfield Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BY8055 Date of approval: 20/12/2004	Effective from: 20/12/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
M	485m N	University Of Huddersfield, Queensgate, Huddersfield, West Yorkshire, HD1 3DH	Operator: University Of Huddersfield Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BY8055 Date of approval: 13/12/2005	Effective from: 13/12/2005 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

4.13 Licensed Discharges to controlled waters

Records within 500m **27**

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Address	Details	
D	137m SE	NEWSOME ROAD CSO, NEWSOME ROAD (OPP NO.16), HUDDERSFIELD, WEST YORKSHIRE, HD4 6NY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA9170 Permit Version: 1 Receiving Water: RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/08/2007 Effective Date: 22/08/2007 Revocation Date: 27/06/2019
D	140m SE	NEWSOME ROAD CSO, NEWSOME ROAD (OPP NO.16), HUDDERSFIELD, WEST YORKSHIRE, HD4 6NY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA9170 Permit Version: 2 Receiving Water: RIVER COLNE	Status: VARIED UNDER EPR 2010 Issue date: 28/06/2019 Effective Date: 28/06/2019 Revocation Date: -

ID	Location	Address	Details	
D	151m SE	BENT STREET CSO, BENT STREET, OPPOSITE NO.4 PERMAIN COURT, HUDDERSFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA9174 Permit Version: 1 Receiving Water: RIVER COLNE	Status: SURRENDERED UNDER EPR 2010 Issue date: 22/08/2007 Effective Date: 22/08/2007 Revocation Date: 19/10/2021
D	167m SE	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 3 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 25/01/1995 Effective Date: 25/01/1995 Revocation Date: 05/03/1995
D	167m SE	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 2 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 02/07/1993 Effective Date: 02/07/1993 Revocation Date: 24/01/1995
D	167m SE	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/05/1963 Effective Date: 27/05/1963 Revocation Date: 01/07/1993
G	193m S	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/05/1963 Effective Date: 27/05/1963 Revocation Date: 01/07/1993
G	193m S	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 3 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 25/01/1995 Effective Date: 25/01/1995 Revocation Date: 05/03/1995

ID	Location	Address	Details	
G	193m S	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 2 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 02/07/1993 Effective Date: 02/07/1993 Revocation Date: 24/01/1995
E	195m SW	WHITEHEAD LANE CSO, WHITEHEAD LANE/JCT DAMSIDE ROAD, NEWSOME, HUDDERSFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8680 Permit Version: 1 Receiving Water: RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 11/03/2005 Effective Date: 01/04/2005 Revocation Date: 30/03/2008
E	195m SW	WHITEHEAD LANE CSO, WHITEHEAD LANE/JCT DAMSIDE ROAD, NEWSOME, HUDDERSFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8680 Permit Version: 2 Receiving Water: RIVER COLNE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/06/2007 Effective Date: 31/03/2008 Revocation Date: -
E	224m SW	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/05/1963 Effective Date: 27/05/1963 Revocation Date: 01/07/1993
E	224m SW	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 3 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 25/01/1995 Effective Date: 25/01/1995 Revocation Date: 05/03/1995
E	224m SW	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 2 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 02/07/1993 Effective Date: 02/07/1993 Revocation Date: 24/01/1995
I	352m W	RASHCLIFFE MILLS, PRIMROSE HILL, HUDDERSFIELD, WEST YORKSHIRE, UK	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: E845 Permit Version: 2 Receiving Water: RIVER HOLME	Status: REVOKED UNDER EPR 2010 Issue date: 20/06/1996 Effective Date: 20/06/1996 Revocation Date: 30/11/2008

ID	Location	Address	Details	
J	410m E	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 3 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 25/01/1995 Effective Date: 25/01/1995 Revocation Date: 05/03/1995
J	410m E	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 2 Receiving Water: VARIES WITH OUTLET	Status: REVISED BY NOTICE, AT DIRECTION OF SEC. OF STATE - 37(2) Issue date: 02/07/1993 Effective Date: 02/07/1993 Revocation Date: 24/01/1995
J	410m E	YWS UNKNOWN SITES DEFAULT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/51 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/05/1963 Effective Date: 27/05/1963 Revocation Date: 01/07/1993
K	445m NE	KINGS MILL LANE NO 2 CSO, KINGS MILL LANE, ASPLEY, HUDDERSFIELD, WEST YORKSHIRE, HD1 3AN	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2325 Permit Version: 2 Receiving Water: RIVER COLNE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 28/02/2005 Effective Date: 31/03/2005 Revocation Date: 14/11/2017
K	445m NE	KINGS MILL LANE NO 2 CSO, KINGS MILL LANE, ASPLEY, HUDDERSFIELD, WEST YORKSHIRE, HD1 3AN	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2325 Permit Version: 1 Receiving Water: RIVER COLNE	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 09/01/1968 Effective Date: 09/01/1968 Revocation Date: 30/03/2005
11	446m W	RASHCLIFFE MILLS, PRIMROSE HILL, HUDDERSFIELD, WEST YORKSHIRE, UK	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: E845 Permit Version: 1 Receiving Water: RIVER HOLME	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 14/01/1983 Effective Date: 14/01/1983 Revocation Date: 19/06/1996
K	449m NE	COLNE ROAD CSO, COLNE ROAD (OPP MILLS), HUDDERSFIELD, WEST YORKSHIRE, HD1 3BD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8557 Permit Version: 1 Receiving Water: RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 31/03/2005 Revocation Date: 14/11/2017

ID	Location	Address	Details	
L	452m W	KIRKLEES COLLEGE, HUDDERSFIELD CENTRE, MANCHESTER ROAD, HUDDERSFIELD, WEST YORKSHIRE, HD1 3LD	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: EPRUP3425GL Permit Version: 1 Receiving Water: HUDDERSFIELD NARROW CANAL	Status: NEW ISSUED UNDER EPR 2010 Issue date: 30/07/2012 Effective Date: 30/07/2012 Revocation Date: -
K	459m NE	COLNE ROAD CSO, COLNE ROAD (OPP MILLS), HUDDERSFIELD, WEST YORKSHIRE, HD1 3BD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8557 Permit Version: 2 Receiving Water: RIVER COLNE	Status: VARIED UNDER EPR 2010 Issue date: 15/11/2017 Effective Date: 15/11/2017 Revocation Date: -
K	471m NE	LONGLEY PARK CSO, LONGLEY PARK GOLF COURSE, COLNE ROAD, ASPLEY, HUDDERSFIELD, WEST YORKSHIRE, HD1 3AW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8682 Permit Version: 2 Receiving Water: RIVER COLNE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/04/2007 Effective Date: 25/04/2007 Revocation Date: 30/03/2018
K	471m NE	LONGLEY PARK CSO, LONGLEY PARK GOLF COURSE, COLNE ROAD, ASPLEY, HUDDERSFIELD, WEST YORKSHIRE, HD1 3AW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8682 Permit Version: 1 Receiving Water: RIVER COLNE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 11/03/2005 Effective Date: 01/04/2005 Revocation Date: 24/04/2007
K	477m NE	LONGLEY PARK CSO, LONGLEY PARK GOLF COURSE, COLNE ROAD, ASPLEY, HUDDERSFIELD, WEST YORKSHIRE, HD1 3AW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8682 Permit Version: 3 Receiving Water: RIVER COLNE	Status: VARIED UNDER EPR 2010 Issue date: 26/02/2018 Effective Date: 31/03/2018 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Address	Details	
I	352m W	SERCK MARSTON, UNIT 11, QUEENS MILL ESTATE, HUDDERSFIELD, HUDDERSFIELD	Permission reference: AA5622 Local Authority: KIRKLEES METROPOLITAN BOROUGH COUNCIL First received date: 01/06/2001	Last received date: 01/01/2018 Status: RECEIVED

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	85m NE	Firth Street Finishers Huddersfield	Not Active	Unknown	Chromium
C	116m NE	John Beaumont Ltd Riverside Mills Firth Street Huddersfield	Not Active	None	Xylene

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	**9**

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Details	
D	132m SE	Incident Date: 25/06/2001 Incident Identification: 11291 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	180m SW	Incident Date: 24/11/2002 Incident Identification: 122711 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	217m SW	Incident Date: 09/01/2002 Incident Identification: 51362 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	322m W	Incident Date: 02/09/2021 Incident Identification: 1988177 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	328m SW	Incident Date: 01/05/2020 Incident Identification: 1802794 Pollutant: Organic Chemicals/Products Pollutant Description: Paints and Varnishes	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	353m SW	Incident Date: 11/12/2005 Incident Identification: 365413 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	456m SW	Incident Date: 10/01/2003 Incident Identification: 130340 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	473m W	Incident Date: 27/05/2007 Incident Identification: 498163 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
14	484m NE	Incident Date: 08/08/2003 Incident Identification: 180250 Pollutant: Oils and Fuel Pollutant Description: Insulating and Cable Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

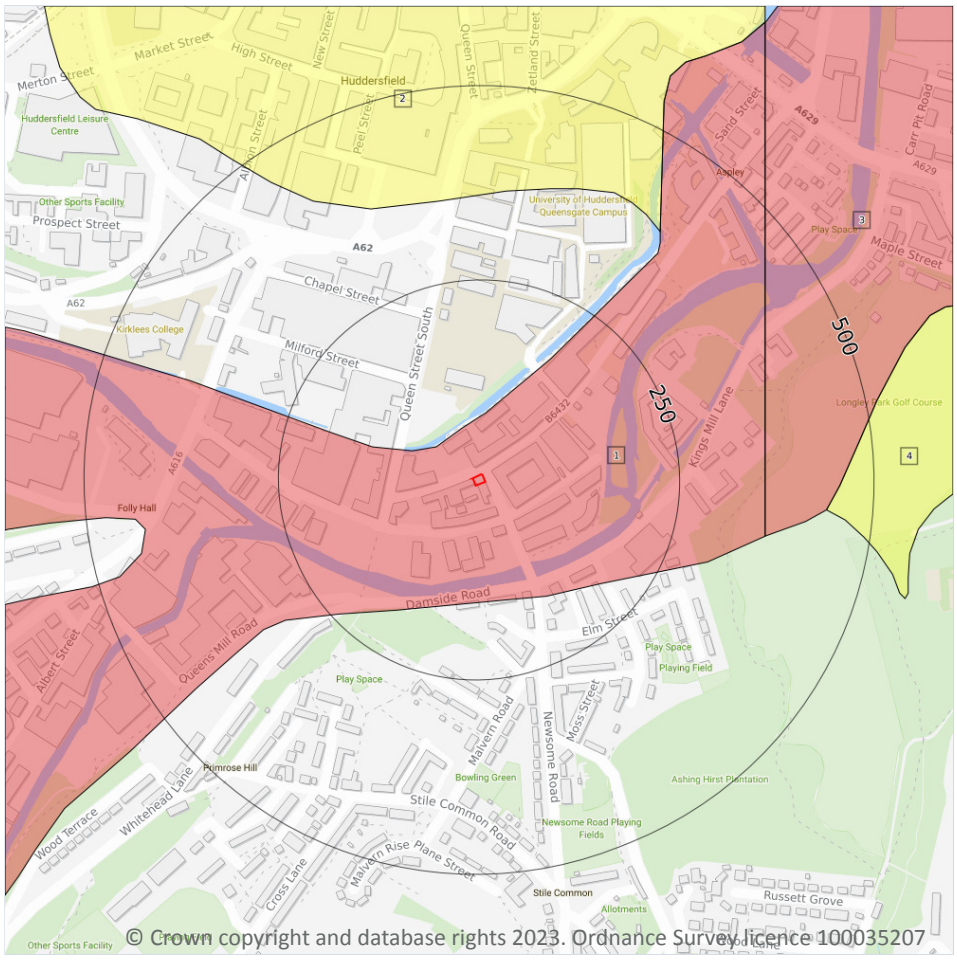
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

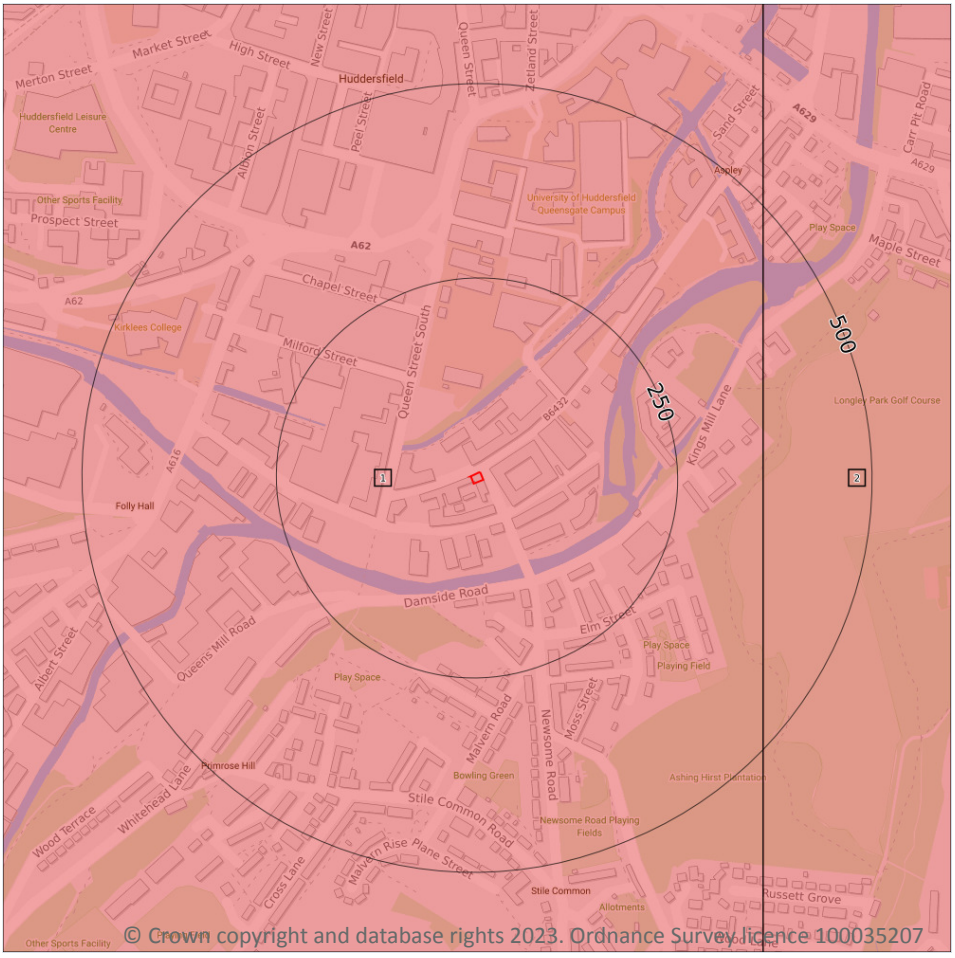
Features are displayed on the Hydrogeology map on **page 56 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	356m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	360m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	440m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m	2

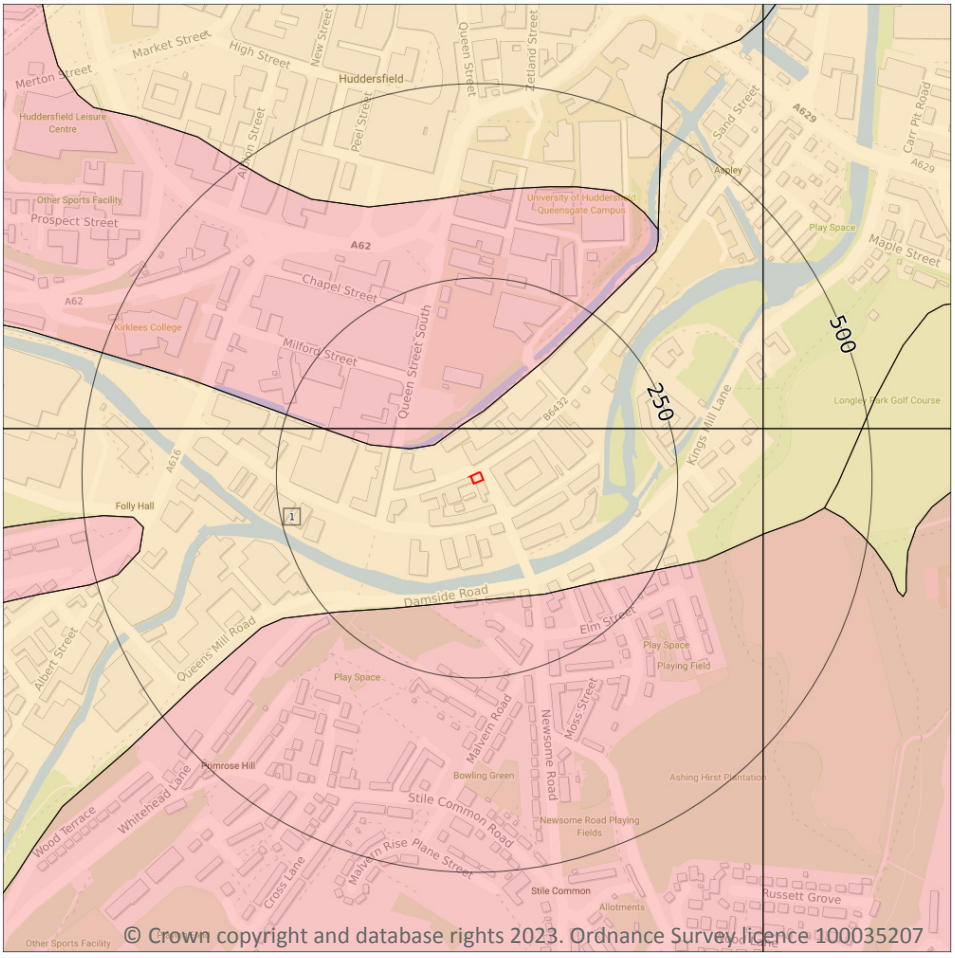
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 58 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	360m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 60 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

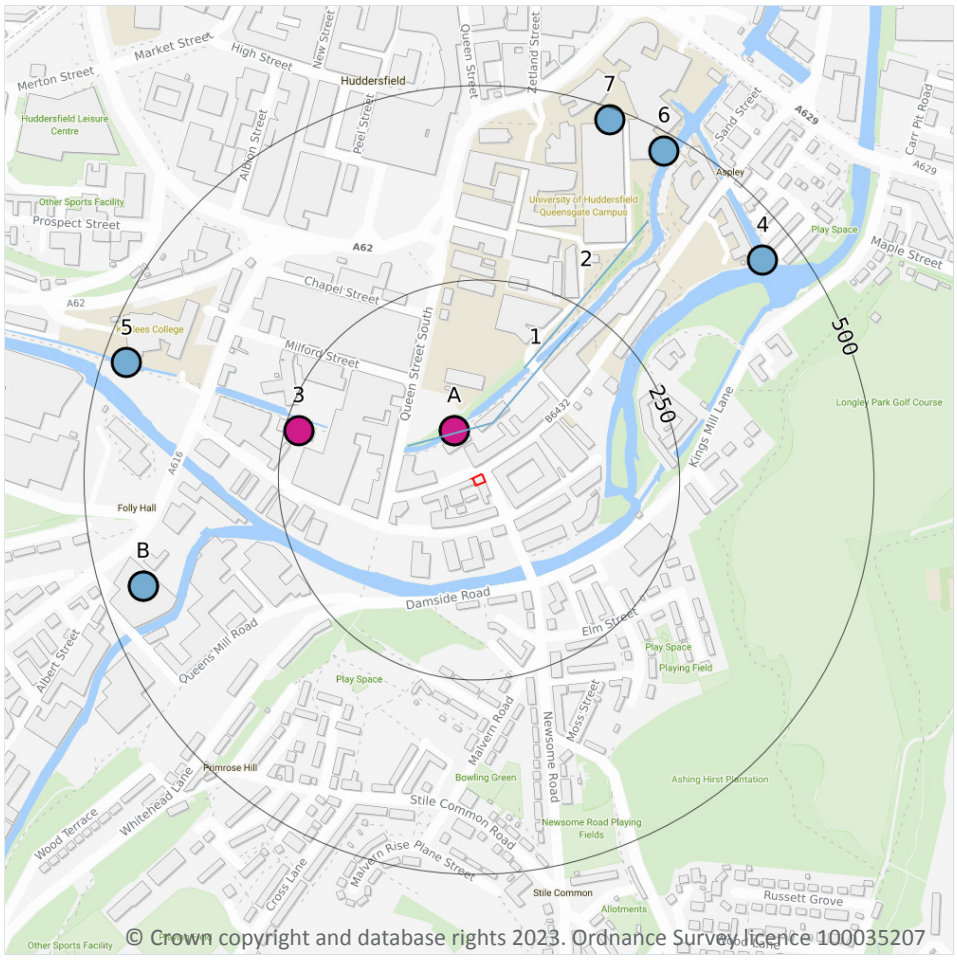
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	26

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 62 >**

ID	Location	Details	
A	65m NW	Status: Historical Licence No: 2/27/11/176 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: SKA TEXTILES LTD Easting: 414600 Northing: 416000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/08/1995 Expiry Date: - Issue No: 101 Version Start Date: 08/02/2001 Version End Date: -
A	65m NW	Status: Historical Licence No: 2/27/11/176 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: SKA TEXTILES LTD Easting: 414600 Northing: 416000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/08/1995 Expiry Date: - Issue No: 101 Version Start Date: 08/02/2001 Version End Date: -
3	232m W	Status: Historical Licence No: 2/27/11/176 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: SKA TEXTILES LTD Easting: 414400 Northing: 416000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/08/1995 Expiry Date: - Issue No: 101 Version Start Date: 08/02/2001 Version End Date: -
-	812m W	Status: Historical Licence No: 2/27/11/190 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: SKA TEXTILES LTD Easting: 413830 Northing: 416110	Annual Volume (m^3): 465000 Max Daily Volume (m^3): 1272 Original Application No: - Original Start Date: 04/02/2005 Expiry Date: 31/12/2010 Issue No: 2 Version Start Date: 18/04/2006 Version End Date: -
-	835m W	Status: Historical Licence No: NE/027/0011/006 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: SKA TEXTILES LTD Easting: 413794 Northing: 416036	Annual Volume (m^3): 200000 Max Daily Volume (m^3): 1272 Original Application No: - Original Start Date: 06/01/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 06/01/2011 Version End Date: -

ID	Location	Details	
-	1092m E	Status: Active Licence No: 2/27/11/018 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MOLDGREEN Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): 105854 Max Daily Volume (m^3): 390.96 Original Application No: 1567(1) Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1092m E	Status: Active Licence No: 2/27/11/031 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MOLDGREEN Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): 36754 Max Daily Volume (m^3): 136.38 Original Application No: 1567(2) Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1092m E	Status: Historical Licence No: 2/27/11/031 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1092m E	Status: Historical Licence No: 2/27/11/018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -

ID	Location	Details	
-	1092m E	Status: Historical Licence No: 2/27/11/031 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - MOLDGREEN Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): 36754 Max Daily Volume (m^3): 136.38 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1092m E	Status: Historical Licence No: 2/27/11/018 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - MOLDGREEN Data Type: Point Name: W T JOHNSON & SONS (HUDDERSFIELD) LTD Easting: 415700 Northing: 416200	Annual Volume (m^3): 105854 Max Daily Volume (m^3): 390.956 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1965 Version End Date: -
-	1094m N	Status: Active Licence No: 2/27/11/193/R01 Details: Heat Pump Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: Kirklees Council Easting: 414584 Northing: 417037	Annual Volume (m^3): 32000 Max Daily Volume (m^3): 357 Original Application No: NPS/WR/025885 Original Start Date: 17/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 02/10/2017 Version End Date: -
-	1097m N	Status: Historical Licence No: 2/27/11/193 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL Easting: 414580 Northing: 417040	Annual Volume (m^3): 2400 Max Daily Volume (m^3): 85 Original Application No: - Original Start Date: 18/05/2007 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1460m NE	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X4 - CARBONIFEROUS MILLSTONE GRIT Data Type: Poly4 Name: ZENECA FINE CHEMICAL MANUFACTURING ORGANISATION Easting: 416690 Northing: 418150	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -
-	1460m NE	Status: Historical Licence No: 2/27/11/060 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE 3 - MILLSTONE GRIT Data Type: Point Name: SYNGENTA LTD Easting: 415200 Northing: 417290	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 6000.84 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/10/2006 Version End Date: -
-	1460m NE	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 3 - MILLSTONE GRIT Data Type: Point Name: SYNGENTA LTD Easting: 415200 Northing: 417290	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 6000.84 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/10/2006 Version End Date: -
-	1554m N	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 4 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 415180 Northing: 417400	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 6000.84 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/10/2006 Version End Date: -

ID	Location	Details	
-	1554m N	Status: Historical Licence No: 2/27/11/060 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE 4 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 415180 Northing: 417400	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 6000.84 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/10/2006 Version End Date: -
-	1602m SW	Status: Historical Licence No: 2/27/10/008 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: BASS BREWERS (TADCASTER) Easting: 413400 Northing: 414900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 08/07/1970 Version End Date: -
-	1892m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414140 Northing: 417770	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -
-	1960m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414500 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -
-	1960m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414500 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -

ID	Location	Details	
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414210 Northing: 417870	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT Data Type: Point Name: BRITVIC SOFT DRINKS LTD Easting: 414210 Northing: 417870	Annual Volume (m^3): 360000 Max Daily Volume (m^3): 1200 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 01/11/2004 Version End Date: -
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT- HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414210 Northing: 417870	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -
-	1993m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414250 Northing: 417900	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**16**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 62 >**

ID	Location	Details	
A	59m N	Status: Historical Licence No: 2/27/11/175 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL Data Type: Line Name: BRITISH WATERWAYS BOARD Easting: 414650 Northing: 416010	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/09/1994 Expiry Date: - Issue No: 100 Version Start Date: 22/09/1994 Version End Date: -
1	68m N	Status: Historical Licence No: 2/27/11/175 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL Data Type: Line Name: BRITISH WATERWAYS BOARD Easting: 414650 Northing: 416010	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/09/1994 Expiry Date: - Issue No: 101 Version Start Date: 10/03/2003 Version End Date: -
2	147m N	Status: Historical Licence No: 2/27/11/175 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL Data Type: Line Name: Canal and River Trust Easting: 414690 Northing: 416080	Annual Volume (m^3): 1250000 Max Daily Volume (m^3): 3960 Original Application No: - Original Start Date: 22/09/1994 Expiry Date: - Issue No: 103 Version Start Date: 21/01/2008 Version End Date: -
B	446m W	Status: Historical Licence No: 2/27/10/009 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER HOLME Data Type: Point Name: TAYLOR & LODGE LTD Easting: 414200 Northing: 415800	Annual Volume (m^3): 54552 Max Daily Volume (m^3): 327.312 Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -

ID	Location	Details	
B	446m W	Status: Historical Licence No: 2/27/10/009 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER HOLME - HUDDERSFIELD Data Type: Point Name: TAYLOR & LODGE LTD Easting: 414200 Northing: 415800	Annual Volume (m^3): 54552 Max Daily Volume (m^3): 327.312 Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -
4	454m NE	Status: Active Licence No: NE/027/0011/023 Details: Supply To A Canal For Throughflow Direct Source: SURFACE WATER Point: RIVER COLNE AT ASPLEY, HUDDERSFIELD Data Type: Point Name: Canal and River Trust Easting: 414997 Northing: 416219	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/000948 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
5	469m W	Status: Active Licence No: NE/027/0011/011 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER Point: HUDDERSFIELD NARROW CANAL Data Type: Point Name: Canal and River Trust Easting: 414179 Northing: 416087	Annual Volume (m^3): 1684800 Max Daily Volume (m^3): 7560 Original Application No: NPS/WR/008366 Original Start Date: 24/04/2012 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 24/04/2012 Version End Date: -
6	477m NE	Status: Historical Licence No: 2/27/11/160 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: Canal and River Trust Easting: 414870 Northing: 416360	Annual Volume (m^3): 700000 Max Daily Volume (m^3): 3600 Original Application No: - Original Start Date: 01/03/1974 Expiry Date: - Issue No: 102 Version Start Date: 21/01/2008 Version End Date: -
7	485m N	Status: Historical Licence No: 2/27/11/160 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 414800 Northing: 416400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/03/1974 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1993 Version End Date: -

ID	Location	Details	
-	1664m N	Status: Historical Licence No: 2/27/11/182 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD BROAD CANAL Data Type: Point Name: BRITISH WATERWAYS Easting: 414800 Northing: 417600	Annual Volume (m^3): 170000 Max Daily Volume (m^3): 750 Original Application No: - Original Start Date: 10/07/1998 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 10/07/1998 Version End Date: -
-	1671m S	Status: Historical Licence No: 2/27/10/041 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: SPRING - NEWSOME Data Type: Point Name: HUDDERSFIELD ESTATE CO LTD Easting: 415000 Northing: 414300	Annual Volume (m^3): 2950 Max Daily Volume (m^3): 86.83 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/09/1984 Version End Date: -
-	1825m W	Status: Historical Licence No: 2/27/11/148 Details: General use relating to Secondary Category (Low Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 412800 Northing: 416000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/10/1979 Version End Date: -
-	1826m N	Status: Active Licence No: 2/27/11/158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD BROAD CANAL - HUDERSFIELD INCINERATOR Data Type: Point Name: Canal and River Trust Easting: 414830 Northing: 417760	Annual Volume (m^3): 273000 Max Daily Volume (m^3): 1090 Original Application No: 5182 Original Start Date: 27/10/1972 Expiry Date: - Issue No: 103 Version Start Date: 21/01/2008 Version End Date: -

ID	Location	Details	
-	1826m N	Status: Historical Licence No: 2/27/11/158 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HUDDERSFIELD BROAD CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 414830 Northing: 417760	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/10/1972 Expiry Date: - Issue No: 102 Version Start Date: 26/10/1999 Version End Date: -
-	1827m SW	Status: Historical Licence No: 2/27/10/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HEBBLE DYKE Data Type: Point Name: DUNSLEY ENGINEERS LTD Easting: 413800 Northing: 414300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/06/1988 Version End Date: -
-	1827m SW	Status: Historical Licence No: 2/27/10/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: HEBBLE DYKE Data Type: Point Name: DUNSLEY ENGINEERS LTD Easting: 413800 Northing: 414300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 29/06/1988 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**7**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 62 >**

ID	Location	Details	
-	1892m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414140 Northing: 417770	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -
-	1960m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414500 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -
-	1960m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414500 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: BENJAMIN SHAW & SONS LTD Easting: 414210 Northing: 417870	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1999 Version End Date: -
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT Data Type: Point Name: BRITVIC SOFT DRINKS LTD Easting: 414210 Northing: 417870	Annual Volume (m^3): 360000 Max Daily Volume (m^3): 1200 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 01/11/2004 Version End Date: -

ID	Location	Details	
-	1972m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT- HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414210 Northing: 417870	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -
-	1993m N	Status: Historical Licence No: 2/27/11/023 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-MILLSTONE GRIT-HUDDERSFIELD Data Type: Point Name: BRITVIC SOFT DRINKS PLC Easting: 414250 Northing: 417900	Annual Volume (m^3): 90920 Max Daily Volume (m^3): 636.4 Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2009 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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