

Coal Mining Risk Assessment

This assessment has been written in accordance with guidance contained in The Coal Authority document: *Risk based approach to development management, Guidance for developers, Version 4, 2017*.

The assessment aims to:

- Provide a desk-based report of information on the coal mining issues which are relevant to the application site;
- Use the available information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact or issues;
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development;
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

Site Location and Description:

The site is located approximately 500m west of Littleborough Town within the Metropolitan Borough of Rochdale with a National Grid reference number 393611E 417131N. The Site is accessed via Calderbrook Road. The proposed development includes the demolition of a building on site and potential new build development in the southwestern corner of the Site. The red line boundary of the site is detailed on drawing GM11360-007 Rev P01 (Appendix A).

Sources of information:

- ***Coal Authority Consultants Mining Report reference 51002305070001 dated 21 August 2020 (Appendices B1 & B2). The Coal Authority Consultants Mining Report has been obtained for the wider land ownership by Rochdale MBC. The proposed redevelopment site is within the western area of the wider site as detailed on drawing GM11360-007 Rev P01 (Appendix A).***
- ***British Geological Survey (BGS) Onshore GeoIndex Borehole Records, checked on 25/08/20***
- ***BGS geological mapping: Geological Survey of England and Wales 1:50,000 geological map series, New Series. Sheet 76. Rochdale. Solid. 1/50000. 2008 (Excerpt at Appendix C)***
- ***BGS Onshore GeoIndex geological mapping: Artificial Ground, Superficial Deposits, Bedrock Geology and Linear Features***
- ***BGS Onshore GeoIndex Opencast Coal Prospecting Sites***
- ***Coal Authority Interactive Map Viewer***
- ***BGS Geological Memoirs***
- ***Groundsure Enviro + Geo Insight Report reference GS-6987705 dated 21/08/20, including historical Ordnance Survey topographical mapping (Appendices D1 to D3)***

Identification, Assessment and Mitigation of Site-Specific Coal Mining Risk				
Issue	Site Affected (Yes/No; if Yes provide summarised reasons)	Hazard	Consequences	Recommended Mitigation Measures
1. Is the proposed development within the zone of likely physical influence of past deep underground mining?	No	N/A	N/A	N/A
2. Is the proposed development within the zone of likely physical influence of underground coal workings at shallow depth (depths of less than 30m)?	No	N/A	N/A	N/A
3. Are there any spine roadways at shallow depth either within, or within 10 metres of the site boundary?	No	N/A	N/A	N/A
4. Are there any recorded coal mine entries either within, or within 100m of the site boundary?	No	N/A	N/A	N/A
5. Is there a possibility of unrecorded shallow mine workings and/or mine entries?	Unrecorded Shallow Mine Workings: Yes The Coal Authority indicates the site to be in a Development High Risk Area and in a location where there are probable shallow unrecorded workings within the developable site boundary. The Coal Authority 'Summary of findings' drawing indicates several	- Ground subsidence. - Ground instability, loss of ground, generation of crown holes. - Catastrophic collapse of mine entry leading to ground instability or voids at the ground surface.	Unrecorded Shallow Mine Workings: Ground subsidence related to collapse or settlement processes associated with shallow underground coal workings may result in: Ground instability and damage to existing and new structures and infrastructure.	Unrecorded Shallow Mine Workings: 1. Based on the geological mapping and information from the Coal Authority, carry out a suitably designed rotary borehole investigation to confirm the geological and mining setting beneath the site. On completion interpret the data and review the risk assessment.

	conjectured outcrops trending approx. northwest-through the site, the approximate depth to the coal seams is currently unknown. The BGS 1:50,000 map, Sheet 76, Rochdale displays the site to be underlain by sandstone (Rough Rock Formation) with a fault trending northwest-southeast through the middle of the site. Six Inch Coal Seam is displayed adjacent to the southern boundary of the site. As the seam is dipping south-west, away from the site, it is not considered to be of significance to the developable area on site. Based on the available borehole data held by the BGS the superficial deposits on site are conjectured to comprise glacial till and alluvial fan deposits proven to a depth of between 3.0m and 5.0m bgl; however, the base was not encountered. Depth to rockhead within the immediate vicinity of the site is currently unknown.	- Settlement of the ground surface above/adjacent to the mine entry. - Potential mine gas and mine water migration pathways and emissions at surface.	- Harm to human health, injury or death of site users or construction workers. - Potential for mine gas migration to surface, where it may represent a hazard to development.	2. If following the results of the investigation above any conjectured zones of potential ground instability or mine entry risks are identified, prior to the development of the site a programme of relict mining hazard remediation may be required over parts of the site prior to its development. This is “normal” practice in many areas of former exposed coalfield and may include: detailed investigation and stabilisation of shallow workings by drilling and pressure grouting, pre-digging and inspection of foundation excavations in certain areas (to mitigate unrecorded mine entry risk), stabilisation of mine entries. All invasive works to be designed to ensure no risk to members of the public or the environment. If required, such works would be carried out in accordance with current Coal Authority requirements and the appropriate Permit and the current industry guidance contained in CIRIA C758D Abandoned Mine Workings Manual (2019).
	Unrecorded Mine Entries: Yes As above.			Unrecorded Mine Entries: Ground subsidence related to collapse or settlement processes associated with mine entries may result in: Ground instability and damage to existing and new structures and infrastructure.

			• Harm to human health, injury or death of site users or construction workers. • Potential for mine gas migration to surface, where it may represent a hazard to development.	
6. Are there any faults, fissures or break lines within the bedrock beneath the site?	Yes Two geological faults are recorded to subcrop beneath the superficial deposits across the site trending approximately northwest-southeast. Considering the absence of recorded deep underground coal mine workings beneath the site, and the fact that unrecorded mine workings (should any impact the site) will be shallow, the presence of geological faults is very unlikely to impact mining subsidence risk.	• Such features may contribute to surface subsidence as a consequence of underground coal mining. • Mine gas and mine water migration pathways.	The presence of geological faults, and potentially broken/fractured rock strata associated with them, represents a potential gas transmission pathway for mines gas movement from unrecorded mine workings, should there be any beneath the site.	Review the mine gas source of ground gas, following the proposed Mitigation Item 5 and consider, if necessary, in the land contamination risk assessment for the site.
7. Is the proposed development within the boundary of a surface mining/opencast site from which coal has been removed by surface mining/opencast methods?	No	N/A	N/A	N/A
8. Have the Coal Authority received any alleged subsidence claims or undertaken any remedial works under its Emergency Surface Hazard Call Out procedures either within or within 50m of the site?	No	N/A	N/A	N/A

9. Is there a record of mine gas emissions within 500m of the site?	No	N/A	N/A	N/A
10. Is the site within the likely zone of influence of any planned underground coal mining?	No	N/A	N/A	N/A

Assessment of Cumulative Impact of Coal Mining Issues:

In terms of the impact of coal mining legacy, overall the site represents a Low to Moderate Risk because of the conjectured position of the Coal Seams subcropping across and potentially being at shallow depth beneath parts of the site. The site is considered to be suitable for the proposed use, however the geological and mining settings should be confirmed by site investigation (rotary boreholes) prior to development and, following a revised risk assessment, mining remedial works such as drilling and pressure grouting **may** be required to ensure the future stability and safety of the proposed development. Such mining investigations and remedial measures are “normal” practice in many areas of former exposed coalfield and their potential requirement is not considered a reason to object to the planning application. The proposed development of the site is not considered to impact or restrict future coal mine working.

The potential presence of mine gas representing a source of ground gas should be considered in the land contamination risk assessment.

The potential for the conjectured geological faults to represent zones of variable rockhead and a source of potential differential settlement of foundations should be considered by the foundations engineer.

Prior to carrying out any works which may intersect, disturb or enter any coal seams, coal mine workings or mine entries (within the ownership of the Coal Authority), the written permission of the Coal Authority shall be obtained (<http://coal.decc.gov.uk/en/coal/cms/services/permits/permits.aspx>). The legal implications of acceptance of The Coal Authority permit conditions should be considered fully before accepting them.

N/A = Not Applicable

Risk Definitions

For ease of reference and understanding the identified risks have been assigned to one of the following categories:

Negligible risk - site likely to be suitable for the proposed use in its present condition. Mining risk unlikely to be present. Further assessment not considered necessary.

Low risk - site likely to be suitable for the proposed use in its present condition. Mining risk may be present but unlikely to have a significant impact on the proposed use. Further assessment may be beneficial in understanding the level of risk, however remedial action is unlikely to be required.

Moderate risk - site may not be suitable for the proposed use in its present condition. Mining risk probably present and may have a significant impact on the proposed use. Further assessment is required to confirm the risk and remedial action may be required.

High risk - site unlikely to be suitable for the proposed use in its present condition. Mining risk almost certainly present and likely to have a significant impact on the proposed use. Further assessment is required to confirm the risk and remedial action likely to be required.

Prepared By:

A handwritten signature in black ink, appearing to read "B Fairhurst".

BETHANY FAIRHURST

ENGINEERING GEOLOGIST

Reviewed By:

A handwritten signature in black ink, appearing to read "D Brownjohn".

DOUG BROWNJOHN

ASSOCIATE DIRECTOR

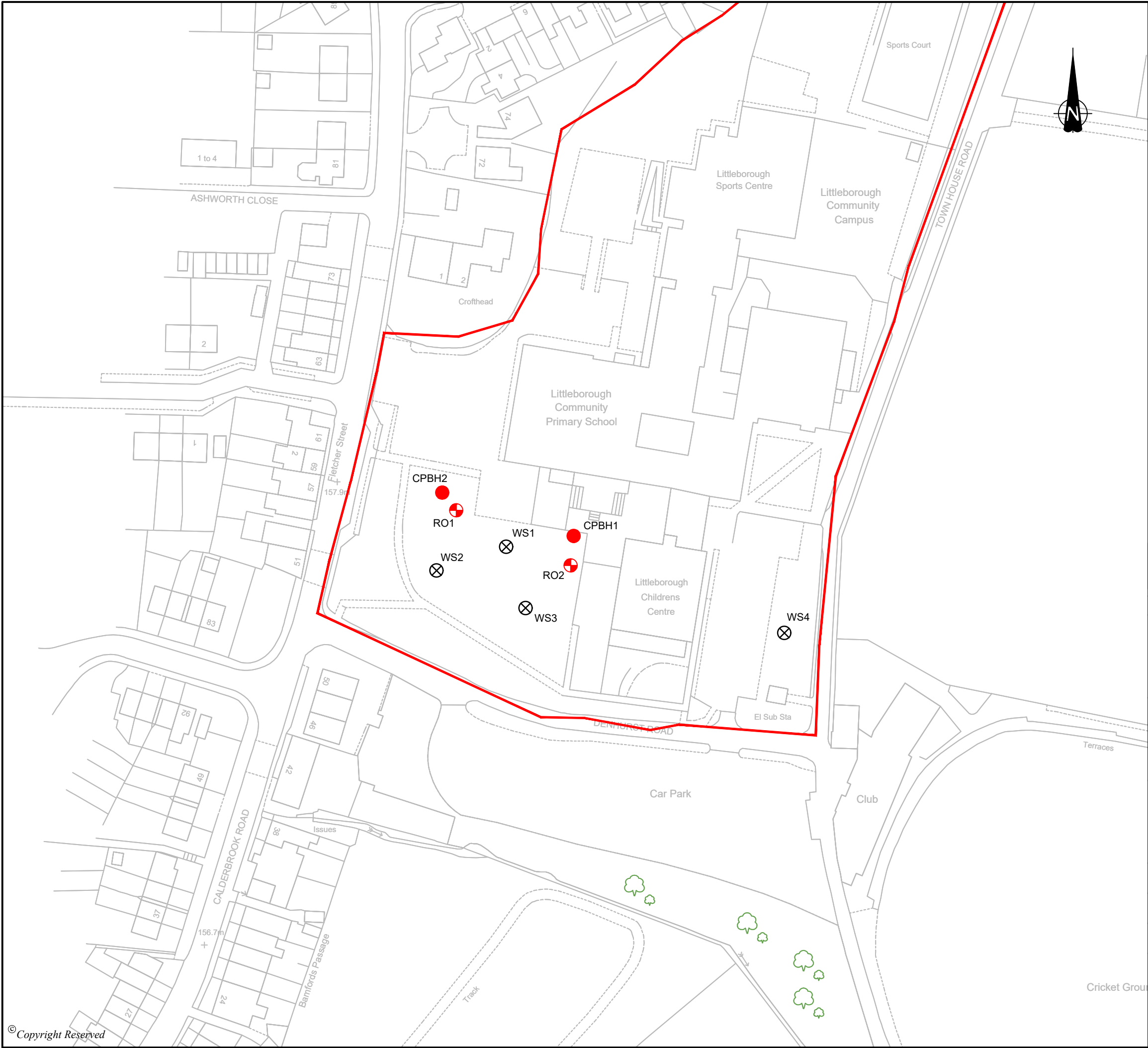
Approved By:

A handwritten signature in black ink, appearing to read "M Flanagan".

MARK FLANAGAN

TECHNICAL DIRECTOR

Appendix A



DO NOT SCALE FROM THIS DRAWING

REFERENCE

RED LINE BOUNDARY

CABLE PERCUSSIVE BOREHOLE

ROTARY BOREHOLE

WINDOW SAMPLE BOREHOLE

REVISION	DETAILS	DATE	DRN	CHKD	APPD
CLIENT					
TURNER & TOWNSEND					
PROJECT					
LITTLEBOROUGH PRIMARY SCHOOL					
DRAWING TITLE					
SITE INVESTIGATION PLAN					
DRG No.		GM11360-007		REV	
				P01	
DRG SIZE		SCALE		DATE	
A3		1:1000		19/01/21	
DRAWN BY		CHECKED BY		APPROVED BY	
CT					
BOLTON TEL 01204 227 227 WWW.WARDELL-ARMSTRONG.COM BIRMINGHAM CARDIFF CARLISLE EDINBURGH GLASGOW LEEDS LONDON MANCHESTER NEWCASTLE UPON TYNE STOKE ON TRENT					

wardell
armstrong

Cricket Ground

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N:\GM\GM11360 - LITTLEBOROUGH PRIMARY SCHOOL\03 - DESIGN\AUTOCAD\GM11360-007 REV P01 SITE INVESTIGATION PLAN.DWG

Appendix B



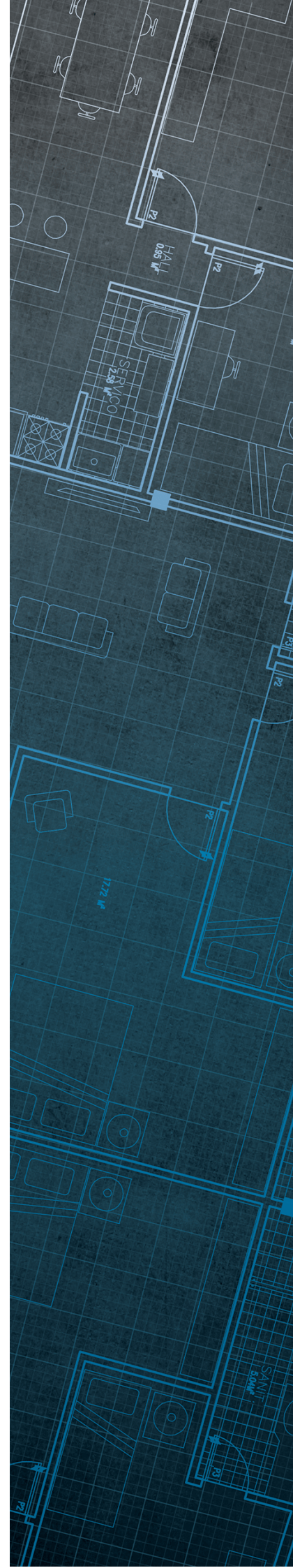
The Coal
Authority

Consultants Coal Mining Report

Littleborough Community Primary
School
Calderbrook Road
Littleborough
Rochdale
OL15 9HW

Date of enquiry:	21 August 2020
Date enquiry received:	21 August 2020
Issue date:	21 August 2020

Our reference:	51002305070001
Your reference:	GM2604



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

Bethany Fairhurst

Enquiry address

Littleborough Community Primary School
Calderbrook Road
Littleborough
Rochdale
OL15 9HW

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

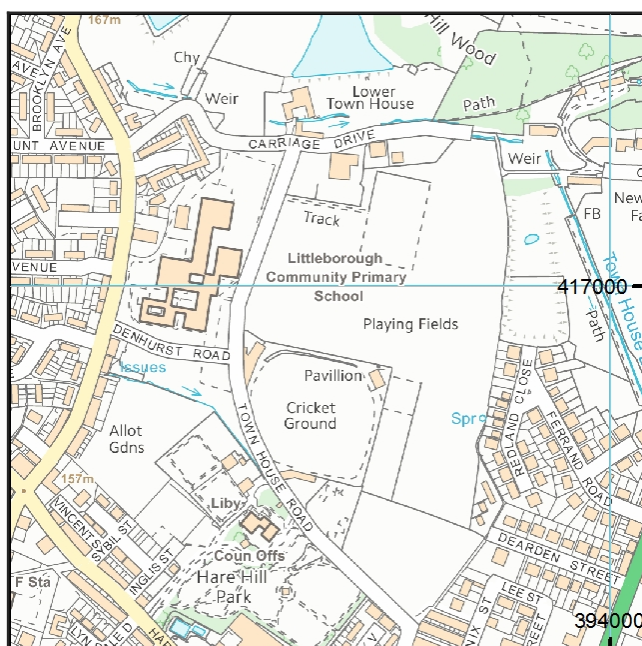
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

5541	16820	NW1230
------	-------	--------

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
INCH	Coal	Yes	Within	N/A	97
LOWER FOOT	Coal	Yes	Within	N/A	96
LOWER MOUNTAIN	Coal	Yes	Within	N/A	97
LOWER MOUNTAIN	Coal	Yes	Within	N/A	137
SIX INCH	Coal	Yes	Within	N/A	121
SIX INCH	Coal	Yes	Within	N/A	134
UPPER FOOT	Coal	Yes	Within	N/A	98
UPPER FOOT	Coal	Yes	Within	N/A	139
UPPER MOUNTAIN	Coal	Yes	Within	N/A	93

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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VAT receipt

Issued by	The Coal Authority 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG
Tax point date	21 August 2020
Issued to	BETHANY FAIRHURST 41-50 FUTURA PARK, ASPINALL WAY HORWICH BOLTON BL6 6SU
Property search for	LITTLEBOROUGH COMMUNITY PRIMARY SCHOOL CALDERBROOK ROAD LITTLEBOROUGH ROCHDALE OL15 9HW
Reference number	51002305070001
Date of issue	21 August 2020
Cost	£112.13
VAT @ 20%	£22.43
Total received	£134.56
VAT registration	598 5850 68

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

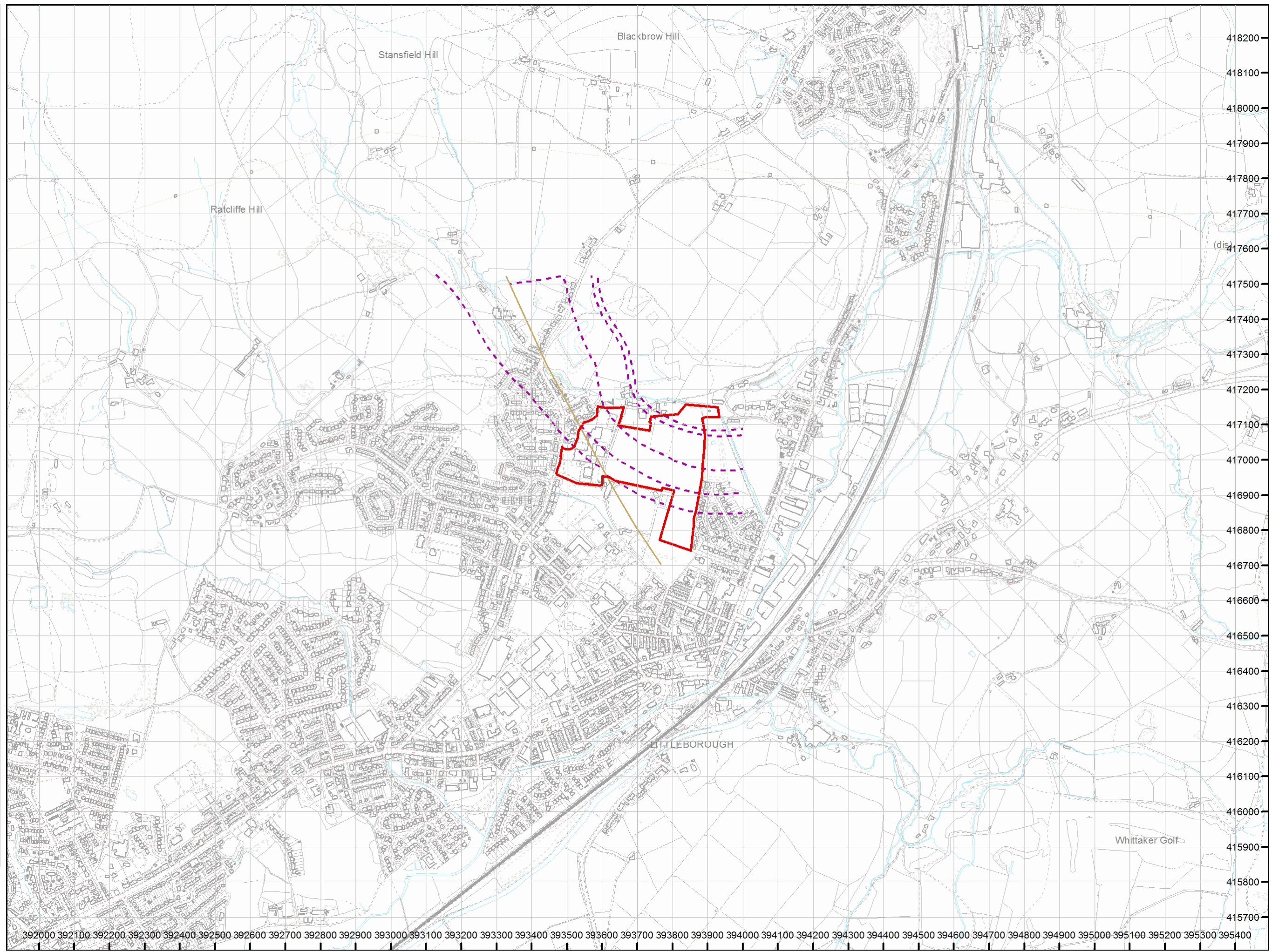
Key

Approximate position of the enquiry boundary shown 

Outcrop (Conjectured) 

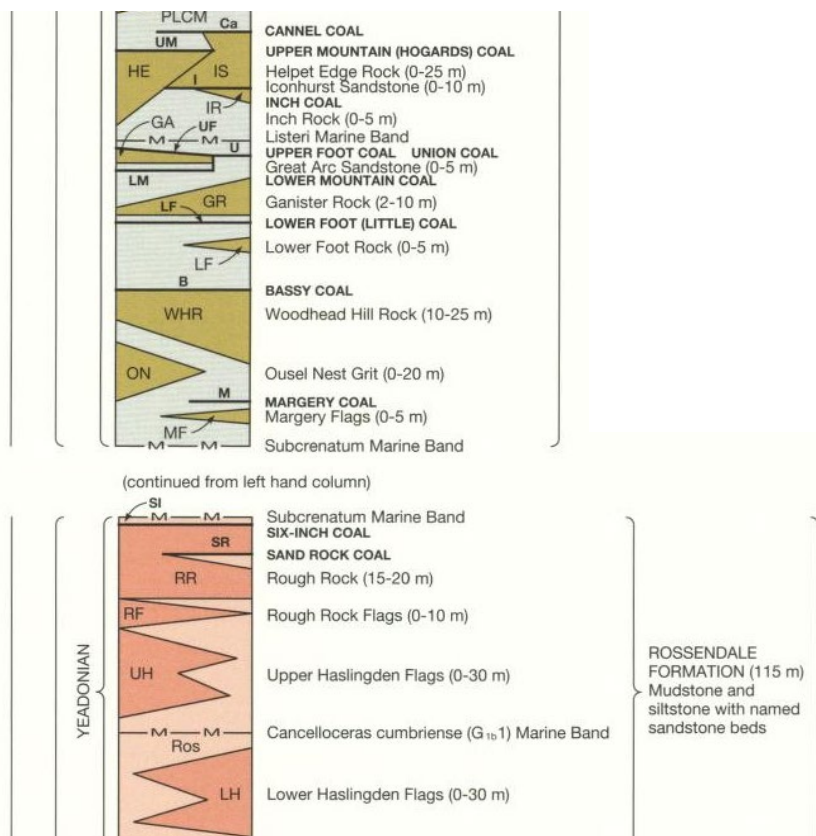
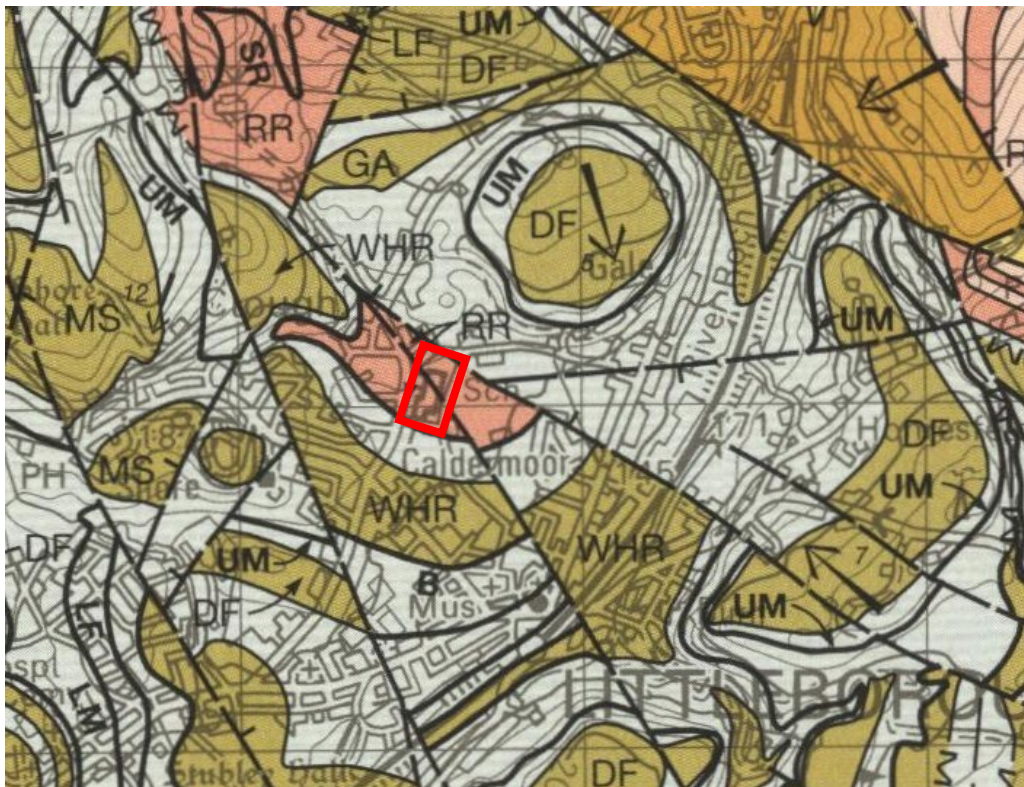
Geological faults 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



Appendix C

Geological Survey of England and Wales 1:50,000 geological map series. Sheet 76. Rochdale. Solid. 1/50000. 2008.



Appendix D

LITTLEBOROUGH COMMUNITY PRIMARY SCHOOL, CALDERBROOK ROAD, LITTLEBOROUGH, OL15 9HW

Order Details

Date: 21/08/2020
Your ref: GM2603
Our Ref: GS-6987705
Client: Wardell Armstrong LLP

Site Details

Location: 393611 417131
Area: 8.96 ha
Authority: [Rochdale Metropolitan Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

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	10	7	37	148	-
22	1.2	Historical tanks	1	1	6	37	-
24	1.3	Historical energy features	0	1	2	16	-
25	1.4	Historical petrol stations	0	0	0	0	-
25	1.5	Historical garages	0	0	4	6	-
26	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
27	2.1	Historical industrial land uses	14	9	53	189	-
37	2.2	Historical tanks	3	1	9	64	-
40	2.3	Historical energy features	0	1	7	27	-
42	2.4	Historical petrol stations	0	0	0	0	-
42	2.5	Historical garages	0	0	7	13	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
44	3.1	Active or recent landfill	0	0	0	0	-
44	3.2	Historical landfill (BGS records)	0	0	0	1	-
45	3.3	Historical landfill (LA/mapping records)	0	0	0	1	-
45	3.4	Historical landfill (EA/NRW records)	1	0	1	3	-
46	3.5	Historical waste sites	0	0	0	1	-
47	3.6	Licensed waste sites	0	0	0	0	-
47	3.7	Waste exemptions	1	0	0	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
48	4.1	Recent industrial land uses	1	2	17	-	-
50	4.2	Current or recent petrol stations	0	0	1	0	-
50	4.3	Electricity cables	0	0	0	0	-
50	4.4	Gas pipelines	0	0	0	0	-
51	4.5	Sites determined as Contaminated Land	0	0	0	0	-



51	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
51	4.7	Regulated explosive sites	0	0	0	0	-
51	4.8	Hazardous substance storage/usage	0	0	0	0	-
51	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
52	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
52	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	0	-
52	4.12	Radioactive Substance Authorisations	0	0	0	0	-
52	4.13	<u>Licensed Discharges to controlled waters</u>	0	1	0	1	-
53	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
54	4.17	List 2 Dangerous Substances	0	0	0	0	-
54	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	5	-
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	<u>Superficial aquifer</u>	Identified (within 500m)				
58	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
59	5.3	<u>Groundwater vulnerability</u>	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	<u>Groundwater abstractions</u>	0	0	2	0	12
66	5.7	<u>Surface water abstractions</u>	0	1	1	4	57
82	5.8	<u>Potable abstractions</u>	0	0	0	0	8
84	5.9	Source Protection Zones	0	0	0	0	-
84	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
85	6.1	<u>Water Network (OS MasterMap)</u>	2	11	9	-	-



87	6.2	<u>Surface water features</u>	0	2	4	-	-
88	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
88	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
88	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
90	7.1	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	High (within 50m)				
91	7.2	<u>Historical Flood Events</u>	3	0	13	-	-
92	7.3	<u>Flood Defences</u>	0	5	11	-	-
93	7.4	<u>Areas Benefiting from Flood Defences</u>	0	0	1	-	-
93	7.5	Flood Storage Areas	0	0	0	-	-
94	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
95	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
96	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
98	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
99	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	4
100	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
100	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	3
101	10.4	<u>Special Protection Areas (SPA)</u>	0	0	0	0	2
102	10.5	National Nature Reserves (NNR)	0	0	0	0	0
102	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
102	10.7	<u>Designated Ancient Woodland</u>	0	1	1	0	2
103	10.8	Biosphere Reserves	0	0	0	0	0
103	10.9	Forest Parks	0	0	0	0	0
103	10.10	Marine Conservation Zones	0	0	0	0	0
103	10.11	<u>Green Belt</u>	1	0	0	0	0
104	10.12	Proposed Ramsar sites	0	0	0	0	0



104	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
104	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
104	10.15	Nitrate Sensitive Areas	0	0	0	0	0
105	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
106	10.17	<u>SSSI Impact Risk Zones</u>	4	-	-	-	-
109	10.18	<u>SSSI Units</u>	0	0	0	0	4
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
111	11.1	World Heritage Sites	0	0	0	-	-
112	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
112	11.3	National Parks	0	0	0	-	-
112	11.4	<u>Listed Buildings</u>	0	2	3	-	-
113	11.5	<u>Conservation Areas</u>	1	0	1	-	-
113	11.6	Scheduled Ancient Monuments	0	0	0	-	-
113	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
114	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
115	12.2	Open Access Land	0	0	0	-	-
115	12.3	Tree Felling Licences	0	0	0	-	-
115	12.4	Environmental Stewardship Schemes	0	0	0	-	-
115	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
116	13.1	<u>Priority Habitat Inventory</u>	1	5	25	-	-
118	13.2	<u>Habitat Networks</u>	0	0	2	-	-
118	13.3	Open Mosaic Habitat	0	0	0	-	-
118	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
119	14.1	<u>10k Availability</u>	Identified (within 500m)				
120	14.2	<u>Artificial and made ground (10k)</u>	1	0	5	9	-
122	14.3	<u>Superficial geology (10k)</u>	4	2	1	5	-

<u>123</u>	<u>14.4</u>	<u>Landslip (10k)</u>	0	0	1	2	-
<u>124</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	8	2	2	10	-
<u>126</u>	<u>14.6</u>	<u>Bedrock faults and other linear features (10k)</u>	5	1	2	10	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>127</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
128	15.2	Artificial and made ground (50k)	0	0	0	0	-
128	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>129</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	4	1	1	5	-
<u>130</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
130	15.6	Landslip (50k)	0	0	0	0	-
131	15.7	Landslip permeability (50k)	None (within 50m)				
<u>132</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	6	2	2	8	-
<u>133</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>134</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	5	1	3	9	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>135</u>	<u>16.1</u>	<u>BGS Boreholes</u>	1	5	13	-	-
Page	Section	Natural ground subsidence					
<u>137</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Low (within 50m)				
<u>139</u>	<u>17.2</u>	<u>Running sands</u>	Very low (within 50m)				
<u>140</u>	<u>17.3</u>	<u>Compressible deposits</u>	Negligible (within 50m)				
<u>141</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>142</u>	<u>17.5</u>	<u>Landslides</u>	Moderate (within 50m)				
<u>144</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
146	18.1	Natural cavities	0	0	0	0	-
<u>147</u>	<u>18.2</u>	<u>BritPits</u>	0	0	0	2	-
<u>147</u>	<u>18.3</u>	<u>Surface ground workings</u>	8	4	63	-	-
<u>150</u>	<u>18.4</u>	<u>Underground workings</u>	0	0	0	0	44
152	18.5	Historical Mineral Planning Areas	0	0	0	0	-



152	18.6	<u>Non-coal mining</u>	1	0	0	0	0
153	18.7	Mining cavities	0	0	0	0	0
153	18.8	JPB mining areas	None (within 0m)				
153	18.9	<u>Coal mining</u>	Identified (within 0m)				
153	18.10	Brine areas	None (within 0m)				
154	18.11	Gypsum areas	None (within 0m)				
154	18.12	Tin mining	None (within 0m)				
154	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
155	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
156	20.1	<u>BGS Estimated Background Soil Chemistry</u>	19	2	-	-	-
157	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
157	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
158	21.1	Underground railways (London)	0	0	0	-	-
158	21.2	Underground railways (Non-London)	0	0	0	-	-
158	21.3	Railway tunnels	0	0	0	-	-
158	21.4	Historical railway and tunnel features	0	0	0	-	-
158	21.5	Royal Mail tunnels	0	0	0	-	-
159	21.6	Historical railways	0	0	0	-	-
159	21.7	Railways	0	0	0	-	-
159	21.8	Crossrail 1	0	0	0	0	-
159	21.9	Crossrail 2	0	0	0	0	-
159	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 8.96ha



Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 8.96ha



Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 8.96ha



Recent site history - 2001 aerial photograph



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Capture Date: 12/05/2001

Site Area: 8.96ha



Recent site history - 2000 aerial photograph

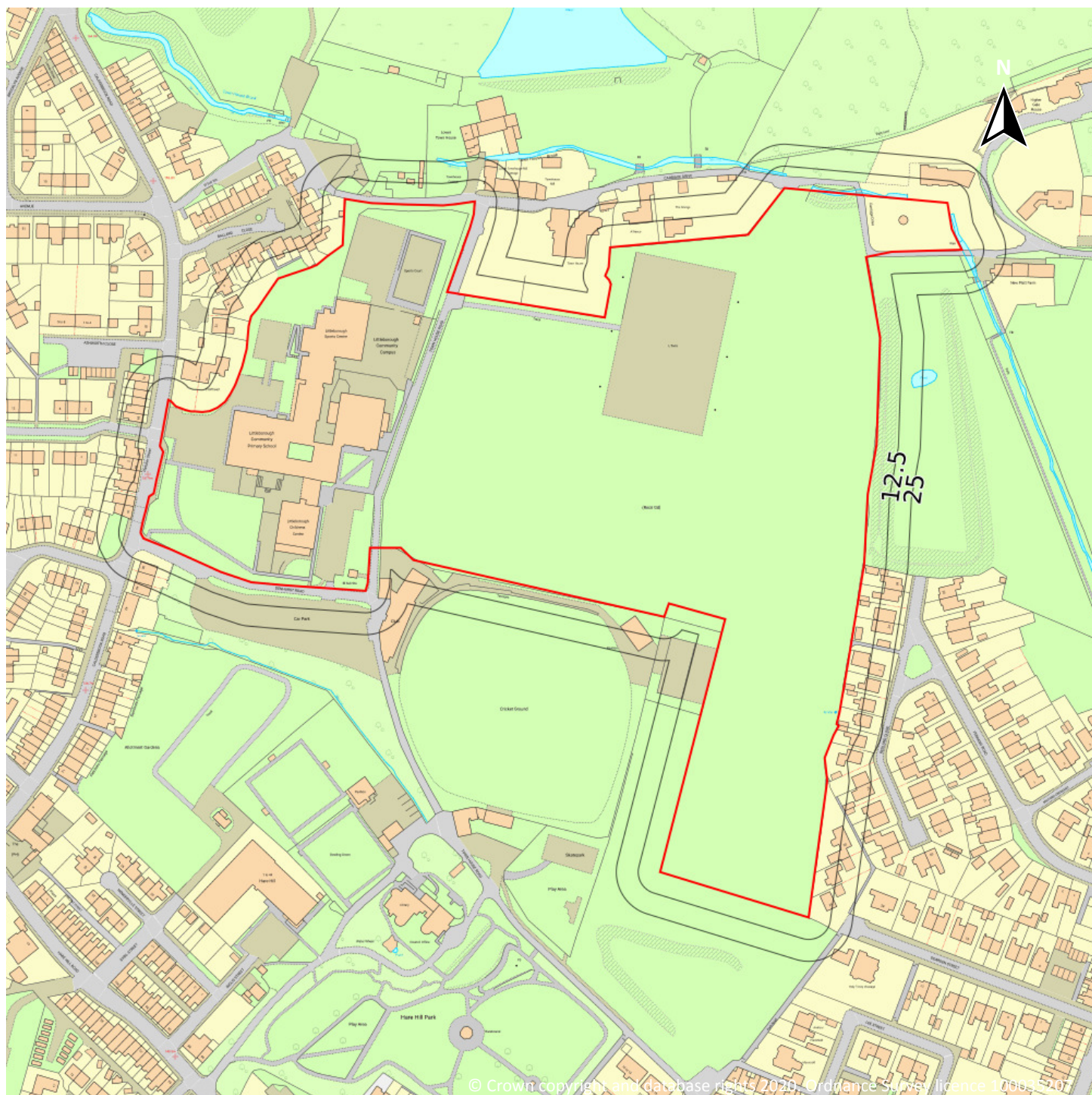


Capture Date: 19/06/2000

Site Area: 8.96ha



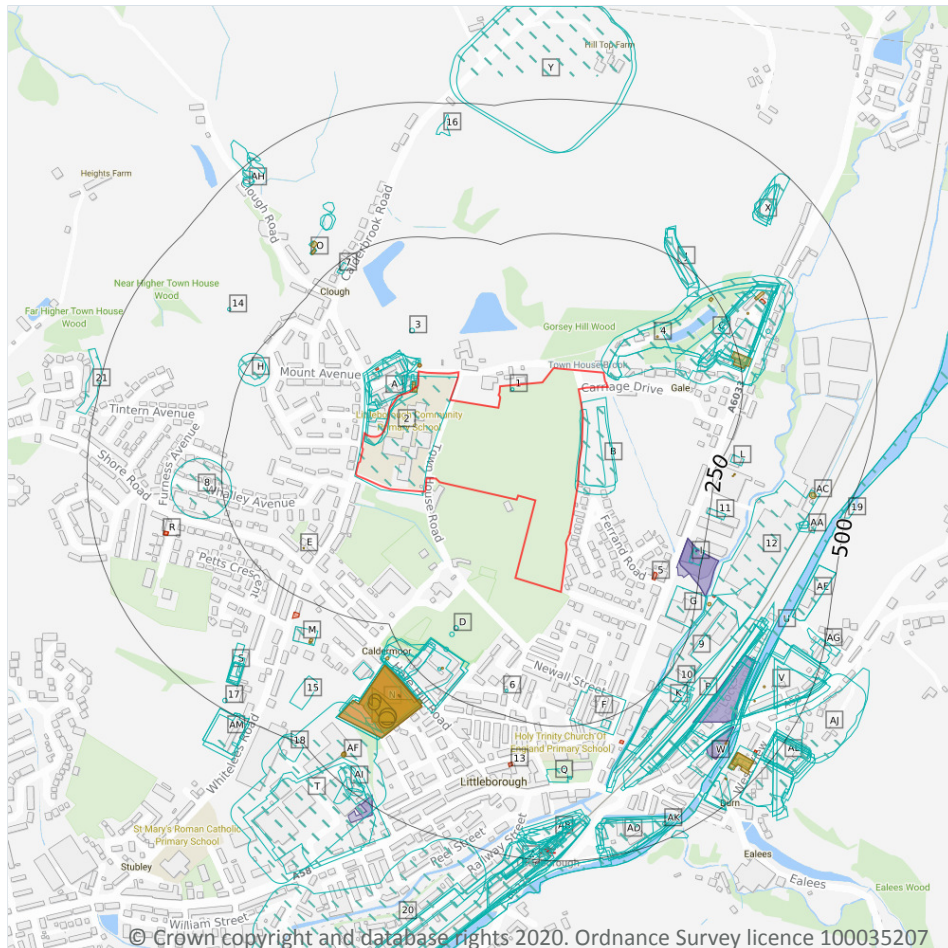
OS MasterMap site plan



Site Area: 8.96ha



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

202

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
1	On site	Unspecified Tank	1938	674577



ID	Location	Land use	Dates present	Group ID
2	On site	Cotton Mill	1851	725953
A	On site	Unspecified Mill	1938	711170
A	On site	Unspecified Mill	1928	717089
A	On site	Unspecified Mill	1949	725683
A	On site	Unspecified Mill	1890	764656
A	On site	Unspecified Tanks	1928 - 1938	771722
A	On site	Cotton Mill	1908	790004
B	On site	Unspecified Heap	1928	735210
B	On site	Unspecified Heap	1949 - 1989	774123
C	2m NE	Print Works	1938	701896
A	3m NW	Unspecified Tanks	1949	791106
A	3m NW	Unspecified Works	1968 - 1989	713551
C	7m E	Print Works	1949	725956
C	7m E	Unspecified Commercial/Industrial	1968	726402
A	15m NW	Gasometer	1851	655105
A	16m N	Gasometer	1890	655103
3	73m N	Chimney	1968 - 1989	727893
C	128m E	Unspecified Commercial/Industrial	1908	790429
C	130m NE	Unspecified Works	1890 - 1892	751776
D	140m SW	Unspecified Tank	1968	674578
D	154m SW	Unspecified Tank	1908	674579
C	168m E	Print Works	1928	720302
C	171m E	Print Works	1911	694337
D	181m SW	Unspecified Tank	1938	674580
D	181m SW	Unspecified Mills	1928 - 1949	696731
D	182m SW	Unspecified Mill	1968	657123
D	182m SW	Unspecified Commercial/Industrial	1976 - 1989	713683
C	182m E	Print Works	1911	726840

ID	Location	Land use	Dates present	Group ID
F	184m S	Unspecified Mill	1890 - 1892	735574
D	194m SW	Woollen Mill	1851	671025
D	194m SW	Unspecified Mills	1908	783870
D	198m SW	Unspecified Mills	1890	709441
G	200m E	Unspecified Works	1976	776360
6	203m S	Pump	1851	675548
H	206m NW	Unspecified Heap	1928 - 1938	697254
C	207m E	Unspecified Mill	1976 - 1989	719397
J	211m NE	Cuttings	1911	710078
H	217m NW	Unspecified Heap	1949 - 1989	751112
D	217m SW	Unspecified Tank	1908	674581
J	220m NE	Cuttings	1908	716503
J	220m NE	Cuttings	1928 - 1949	723690
I	227m E	Garage	1976	693859
C	228m E	Print Works	1851	749248
J	228m NE	Cuttings	1911	731233
7	230m NW	Unspecified Tank	1938	674571
C	232m E	Unspecified Tanks	1928 - 1938	774654
8	233m W	Unspecified Hole	1890	658680
9	234m SE	Unspecified Works	1968	750493
C	239m E	Unspecified Tanks	1949	781865
10	243m SE	Unspecified Works	1976 - 1989	696541
11	245m E	Engineering Works	1976	659515
K	248m SE	Unspecified Mills	1938 - 1949	744018
F	249m S	Police Station	1968	680436
C	252m E	Unspecified Commercial/Industrial	1851	643244
K	252m SE	Sawmills	1911	765410
K	254m SE	Unspecified Mills	1928	769614



ID	Location	Land use	Dates present	Group ID
L	264m SE	Engineering Works	1976	659514
D	274m SW	Gasometer	1851	655106
12	278m E	Unspecified Works	1989	732665
N	284m SW	Unspecified Commercial/Industrial	1949	775490
N	285m SW	Unspecified Works	1968	726782
D	285m SW	Unspecified Tank	1908 - 1928	701170
N	288m SW	Gas Works	1890 - 1908	767708
N	291m SW	Unspecified Commercial/Industrial	1938	697286
O	293m NW	Unspecified Tank	1928 - 1938	762206
M	294m SW	Fire Station	1968 - 1989	722386
N	298m SW	Unspecified Commercial/Industrial	1928	700099
P	300m SE	Railway Sidings	1911	755652
O	307m NW	Unspecified Tank	1949	674570
O	311m NW	Unspecified Pit	1938	732704
C	311m E	Gasometer	1851	655104
O	314m NW	Unspecified Pit	1908	720292
D	316m SW	Telephone Exchange	1968 - 1989	772007
P	326m SE	Railway Sidings	1908	736181
P	326m SE	Railway Sidings	1928	773078
Q	328m S	Grave Yard	1851	668094
P	331m SE	Railway Sidings	1968	735251
P	331m SE	Railway Sidings	1938	699596
P	332m SE	Railway Sidings	1949	781185
N	332m SW	Unspecified Tank	1949 - 1968	694512
N	334m SW	Unspecified Tank	1949 - 1968	759203
O	335m NW	Unspecified Pit	1968 - 1989	781120
14	338m NW	Sandstone Quarry	1851	687475
N	341m SW	Gasometer	1890 - 1908	700725



ID	Location	Land use	Dates present	Group ID
N	341m SW	Unspecified Tank	1938	750742
N	342m SW	Gasometer	1890	655102
N	343m SW	Unspecified Tank	1938	720232
P	343m SE	Unspecified Mill	1911	727584
Q	344m S	Unspecified Tank	1851	674582
P	344m SE	Unspecified Mill	1890	770795
P	347m SE	Unspecified Mill	1938 - 1949	705687
P	347m SE	Unspecified Commercial/Industrial	1928	694546
P	347m SE	Unspecified Commercial/Industrial	1908	700679
N	348m SW	Unspecified Tank	1928	764525
N	349m SW	Unspecified Tank	1908 - 1928	743668
P	355m SE	Unspecified Mill	1892	702432
N	374m SW	Unspecified Ground Workings	1968	647817
15	377m S	Unspecified Pit	1968	690612
S	378m SW	Mineral Water Manufactory	1908	652967
T	381m SW	Unspecified Works	1989	765720
U	387m SE	Disused Canal	1989	752921
U	387m SE	Disused Canal	1976	754144
V	394m SE	Dock Yard	1851	648876
V	396m SE	Iron Foundry	1909 - 1911	697139
V	398m SE	Iron Foundry	1949	729191
W	398m SE	Unspecified Mill	1890 - 1892	785145
S	398m SW	Laundry	1949	790076
X	399m NE	Unspecified Pit	1928	763035
X	399m NE	Unspecified Old Quarry	1908	696358
Y	400m N	Colliery	1891	713761
Y	401m N	Colliery	1892	771053
V	404m SE	Unspecified Depot	1976	668790

ID	Location	Land use	Dates present	Group ID
V	404m SE	Unspecified Commercial/Industrial	1968	735627
Z	406m S	Railway Sidings	1938	722406
X	407m NE	Unspecified Pit	1938	701756
X	408m NE	Unspecified Old Quarry	1911	726157
S	408m SW	Laundry	1938	731509
AA	412m E	Unspecified Ground Workings	1891	774273
S	412m SW	Laundry	1928	737488
AB	412m S	Unspecified Ground Workings	1851 - 1968	734545
S	412m SW	Unspecified Foundry	1890	655324
X	413m NE	Unspecified Pit	1949 - 1989	734315
V	415m E	Iron Foundry	1930	746705
AB	416m S	Unspecified Pit	1890	716500
AA	418m E	Unspecified Ground Workings	1930	730831
AA	418m E	Unspecified Ground Workings	1909	735247
AB	418m S	Railway Sidings	1911	708705
AB	423m S	Unspecified Pit	1928	711547
AB	423m S	Unspecified Pit	1908	786786
AB	424m S	Unspecified Heap	1938	650667
V	425m E	Unspecified Commercial/Industrial	1891	773374
Z	426m S	Railway Sidings	1928	721033
AC	427m SE	Unspecified Tank	1989	674602
AD	427m S	Unspecified Mill	1911	784797
Z	429m S	Railway Sidings	1908	722984
AD	429m S	Unspecified Mill	1911 - 1928	742153
AD	432m S	Unspecified Mill	1890 - 1892	762833
Z	432m S	Railway Sidings	1949 - 1968	696002
AE	432m E	Engineering Works	1976	659516
AE	432m E	Corporation Yard	1968	681771



ID	Location	Land use	Dates present	Group ID
AD	436m S	Unspecified Mill	1908	763073
AD	437m S	Unspecified Works	1968	678941
W	438m SE	Unspecified Tanks	1949	785537
AB	439m S	Railway Station	1908 - 1949	755520
16	440m N	Refuse Heap	1931	677794
AB	440m S	Railway Station	1911	728686
W	443m SE	Unspecified Tanks	1938	786548
W	444m SE	Unspecified Tanks	1928	727066
AB	445m S	Railway Station	1989	774921
W	448m SE	Refuse Heap	1938 - 1949	723917
AB	448m S	Railway Station	1968 - 1976	735818
W	453m SE	Refuse Heap	1928	714610
AB	454m S	Railway Station	1890	762237
T	455m SW	Unspecified Commercial/Industrial	1949	763690
AB	457m S	Railway Station	1892	739349
AG	463m E	Unspecified Ground Workings	1891	647858
T	463m SW	Unspecified Mill	1928 - 1938	736424
AB	463m S	Railway Building	1911	769970
AH	465m NW	Unspecified Heap	1928	745707
AH	467m NW	Unspecified Ground Workings	1931	647834
AI	467m SW	Refuse Heap	1949	723113
AH	468m NW	Unspecified Heap	1938	770819
AJ	468m SE	Fire Brick and Pipe Works	1891	789547
AK	468m SE	Unspecified Tank	1892	674607
Z	469m S	Railway Sidings	1890	780778
AB	469m S	Railway Building	1938	754887
AI	470m SW	Refuse Heap	1928	700723
AB	470m S	Railway Station	1851	763598



ID	Location	Land use	Dates present	Group ID
AL	474m SE	Woollen Mills	1911	722381
AG	475m E	Refuse Heap	1930 - 1949	734392
AL	476m SE	Unspecified Mill	1930	696332
AL	476m SE	Unspecified Mill	1909	750042
AL	476m SE	Unspecified Mill	1949	694120
AH	477m NW	Unspecified Heap	1949	715901
AB	477m S	Railway Sidings	1892	711996
AL	479m SE	Unspecified Works	1976 - 1989	701023
AL	479m SE	Unspecified Mill	1968	765115
AB	480m S	Railway Buildings	1938	681638
17	480m SW	Coal Pit	1851	654243
AI	482m SW	Unspecified Heap	1968	650666
AL	483m SE	Bleaching, Dyeing and Chemical Mills	1911	692593
AL	483m SE	Bleaching and Dyeing Mills	1911	652076
AJ	484m SE	Fire Brick and Pipe Works	1892	727413
AL	485m SE	Woollen Mill	1892	704813
AL	488m SE	Woollen Mill	1891	787489
AI	488m SW	Refuse Heap	1938	782494
18	489m S	Unspecified Pit	1968 - 1976	724748
19	490m E	Wharf	1851	679443
AH	491m NW	Refuse Heap	1909	705909
AH	492m NW	Refuse Heap	1968	718126
AB	492m S	Railway Building	1949	670163
AK	492m SE	Unspecified Pit	1938	690613
AM	494m SW	Unspecified Commercial/Industrial	1968	643242
AM	494m SW	Unspecified Mill	1949	731068
AB	494m S	Railway Building	1949 - 1968	764995
20	495m S	Unspecified Works	1968	779166



ID	Location	Land use	Dates present	Group ID
AB	496m S	Railway Buildings	1911	681639
AM	497m SW	Unspecified Mill	1938	754877
AB	497m S	Railway Building	1911	712606
AB	498m S	Railway Building	1911	716019
21	498m W	Refuse Heap	1968 - 1976	774346

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

45

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Tanks	1910 - 1937	88970
A	8m N	Gasometer	1891	78071
4	118m NE	Unspecified Tank	1989	83996
E	166m SW	Unspecified Tank	1978	88858
E	166m SW	Unspecified Tank	1970	98430
D	214m SW	Unspecified Tank	1910	83997
C	236m E	Tanks	1910 - 1937	99015
C	238m NE	Unspecified Tank	1989 - 1995	104243
G	273m E	Unspecified Tank	1983 - 1993	92214
D	278m SW	Unspecified Tank	1891 - 1930	102252
L	284m SE	Unspecified Tank	1983	93955
L	285m SE	Unspecified Tank	1983	93209
L	285m SE	Unspecified Tank	1975	97526



ID	Location	Land use	Dates present	Group ID
L	285m SE	Unspecified Tank	1975	100294
N	286m SW	Gas Works	1891	95506
N	287m SW	Gas Works	1965	95822
N	288m SW	Gas Works	1910	100454
C	288m E	Unspecified Tank	1891	83995
O	293m NW	Unspecified Tank	1910 - 1937	103922
O	301m NW	Unspecified Tank	1960 - 1962	101648
N	306m SW	Tanks	1910 - 1937	89991
M	312m SW	Unspecified Tank	1959 - 1970	91409
C	313m NE	Unspecified Tank	1910 - 1937	99351
M	318m SW	Unspecified Tank	1978	94302
N	333m SW	Tanks	1959	87603
N	335m SW	Unspecified Tank	1960	88852
N	335m SW	Gasometer	1965	89976
N	335m SW	Gasometer	1965	97448
N	335m SW	Unspecified Tank	1960	103887
N	341m SW	Unspecified Tank	1930 - 1937	96881
N	341m SW	Gasometer	1891 - 1910	99748
N	341m SW	Unspecified Tank	1930 - 1937	98765
N	341m SW	Gasometer	1891 - 1910	99858
N	344m SW	Unspecified Tank	1960 - 1970	89023
N	351m SW	Unspecified Tank	1960	96868
N	351m SW	Unspecified Tank	1985	94240
V	412m SE	Unspecified Tank	1962	83998
W	414m SE	Unspecified Tank	1930 - 1937	91900
V	415m SE	Unspecified Tank	1930 - 1937	93388
AC	424m SE	Unspecified Tank	1989 - 1993	97964
W	443m SE	Filter Tanks	1930 - 1937	101673



ID	Location	Land use	Dates present	Group ID
W	444m SE	Filter Tanks	1910	95588
AF	452m SW	Unspecified Tank	1996 - 1999	102969
AF	454m SW	Unspecified Tank	1988	95131
W	461m SE	Unspecified Tank	1977 - 1988	91679

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

19

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

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

ID	Location	Land use	Dates present	Group ID
A	8m N	Gasometer	1891	46123
A	62m NW	Electricity Substation	1988	58638
5	164m E	Electricity Substation	1975 - 1993	49467
M	278m SW	Electricity Substation	1970 - 1989	49777
G	280m E	Electricity Substation	1989 - 1993	51930
N	286m SW	Gas Works	1891	52656
N	287m SW	Gas Works	1965	48366
N	288m SW	Gas Works	1910	52085
F	297m S	Electricity Substation	1988 - 1993	54313
C	319m NE	Electricity Substation	1989 - 1995	51307
13	329m S	Electricity Substation	1988 - 1993	52975
N	335m SW	Gasometer	1965	57809
N	335m SW	Gasometer	1965	53653
N	341m SW	Gasometer	1891 - 1910	50604



ID	Location	Land use	Dates present	Group ID
N	341m SW	Gasometer	1891 - 1910	57996
R	365m W	Electricity Substation	1989	56531
R	365m W	Electricity Substation	1970 - 1978	57874
W	465m SE	Electricity Substation	1977	50129
W	466m SE	Electricity Substation	1988	56882

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

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

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

ID	Location	Land use	Dates present	Group ID
I	207m E	Garage	1975	16356
I	209m E	Garage	1983 - 1989	19796
I	210m E	Garage	1960 - 1962	17285
I	210m E	Garage	1993	15320
P	343m SE	Vehicle Dismantling Yard	1983 - 1989	17635
P	343m SE	Vehicle Dismantling Yard	1975 - 1993	19549

ID	Location	Land use	Dates present	Group ID
W	396m SE	Garage	1961 - 1988	18593
W	396m SE	Garage	1962	15512
AI	483m SW	Garage	1988	15557
AI	485m SW	Garage	1996 - 1999	19679

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

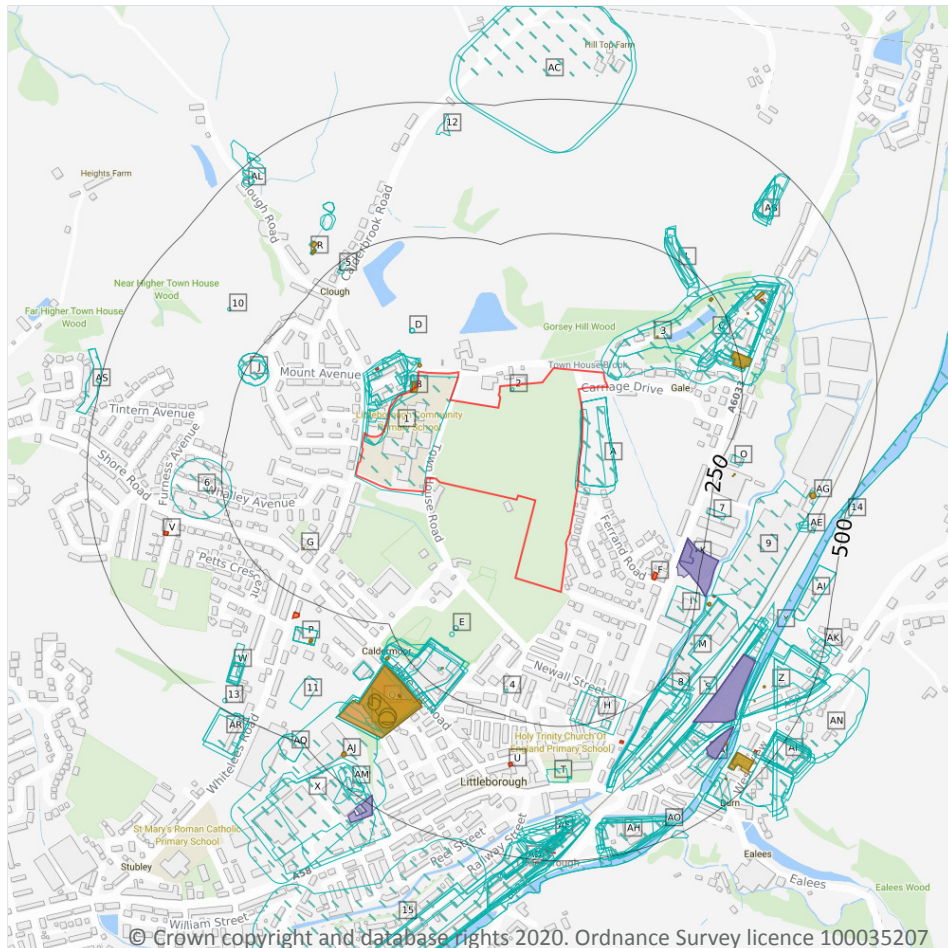
0

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

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



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

265

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 27**

ID	Location	Land Use	Date	Group ID
1	On site	Cotton Mill	1851	725953
2	On site	Unspecified Tank	1938	674577
A	On site	Unspecified Heap	1928	735210



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Heap	1989	774123
A	On site	Unspecified Heap	1976	774123
A	On site	Unspecified Heap	1949	774123
A	On site	Unspecified Heap	1968	774123
B	On site	Unspecified Tanks	1928	771722
B	On site	Unspecified Mill	1928	717089
B	On site	Cotton Mill	1908	790004
B	On site	Unspecified Mill	1949	725683
B	On site	Unspecified Mill	1938	711170
B	On site	Unspecified Tanks	1938	771722
B	On site	Unspecified Mill	1890	764656
C	2m NE	Print Works	1938	701896
B	3m NW	Unspecified Tanks	1949	791106
B	3m NW	Unspecified Works	1989	713551
B	3m NW	Unspecified Works	1976	713551
B	3m NW	Unspecified Works	1968	713551
C	7m E	Print Works	1949	725956
C	7m E	Unspecified Commercial/Industrial	1968	726402
B	15m NW	Gasometer	1851	655105
B	16m N	Gasometer	1890	655103
D	73m N	Chimney	1989	727893
D	73m N	Chimney	1976	727893
D	73m N	Chimney	1968	727893
C	128m E	Unspecified Commercial/Industrial	1908	790429
C	130m NE	Unspecified Works	1890	751776
E	140m SW	Unspecified Tank	1968	674578
E	154m SW	Unspecified Tank	1908	674579
C	168m E	Print Works	1928	720302



ID	Location	Land Use	Date	Group ID
C	171m E	Print Works	1911	694337
E	181m SW	Unspecified Tank	1938	674580
E	181m SW	Unspecified Mills	1949	696731
E	182m SW	Unspecified Commercial/Industrial	1989	713683
E	182m SW	Unspecified Commercial/Industrial	1976	713683
E	182m SW	Unspecified Mill	1968	657123
C	182m E	Print Works	1911	726840
H	184m S	Unspecified Mill	1892	735574
H	188m S	Unspecified Mill	1890	735574
E	191m SW	Unspecified Mills	1938	696731
E	194m SW	Woollen Mill	1851	671025
E	194m SW	Unspecified Mills	1908	783870
E	195m SW	Unspecified Mills	1928	696731
E	198m SW	Unspecified Mills	1890	709441
I	200m E	Unspecified Works	1976	776360
4	203m S	Pump	1851	675548
J	206m NW	Unspecified Heap	1938	697254
C	207m E	Unspecified Mill	1989	719397
C	207m E	Unspecified Mill	1976	719397
J	208m NW	Unspecified Heap	1928	697254
L	211m NE	Cuttings	1911	710078
J	217m NW	Unspecified Heap	1989	751112
J	217m NW	Unspecified Heap	1976	751112
J	217m NW	Unspecified Heap	1949	751112
J	217m NW	Unspecified Heap	1968	751112
E	217m SW	Unspecified Tank	1908	674581
L	220m NE	Cuttings	1928	723690
L	220m NE	Cuttings	1908	716503

ID	Location	Land Use	Date	Group ID
L	226m NE	Cuttings	1938	723690
K	227m E	Garage	1976	693859
C	228m E	Print Works	1851	749248
L	228m NE	Cuttings	1911	731233
5	230m NW	Unspecified Tank	1938	674571
C	232m E	Unspecified Tanks	1928	774654
C	233m E	Unspecified Works	1892	751776
6	233m W	Unspecified Hole	1890	658680
M	234m SE	Unspecified Works	1968	750493
C	235m E	Unspecified Tanks	1938	774654
L	236m NE	Cuttings	1949	723690
C	239m E	Unspecified Tanks	1949	781865
M	243m SE	Unspecified Works	1989	696541
7	245m E	Engineering Works	1976	659515
8	246m SE	Unspecified Works	1976	696541
N	248m SE	Unspecified Mills	1949	744018
H	249m S	Police Station	1968	680436
C	252m E	Unspecified Commercial/Industrial	1851	643244
N	252m SE	Sawmills	1911	765410
N	253m SE	Sawmills	1911	765410
N	254m SE	Unspecified Mills	1928	769614
N	255m SE	Unspecified Mills	1938	744018
O	264m SE	Engineering Works	1976	659514
E	274m SW	Gasometer	1851	655106
9	278m E	Unspecified Works	1989	732665
Q	284m SW	Unspecified Commercial/Industrial	1949	775490
Q	285m SW	Unspecified Works	1968	726782
E	285m SW	Unspecified Tank	1928	701170



ID	Location	Land Use	Date	Group ID
E	285m SW	Unspecified Tank	1908	701170
Q	288m SW	Gas Works	1890	767708
Q	291m SW	Unspecified Commercial/Industrial	1938	697286
R	293m NW	Unspecified Tank	1938	762206
P	294m SW	Fire Station	1989	722386
P	294m SW	Fire Station	1976	722386
P	294m SW	Fire Station	1968	722386
R	294m NW	Unspecified Tank	1928	762206
Q	298m SW	Unspecified Commercial/Industrial	1928	700099
Q	298m SW	Gas Works	1908	767708
S	300m SE	Railway Sidings	1911	755652
R	307m NW	Unspecified Tank	1949	674570
R	311m NW	Unspecified Pit	1938	732704
C	311m E	Gasometer	1851	655104
R	314m NW	Unspecified Pit	1908	720292
E	316m SW	Telephone Exchange	1989	772007
E	316m SW	Telephone Exchange	1976	772007
E	316m SW	Telephone Exchange	1968	772007
S	326m SE	Railway Sidings	1928	773078
S	326m SE	Railway Sidings	1908	736181
T	328m S	Grave Yard	1851	668094
S	331m SE	Railway Sidings	1968	735251
S	331m SE	Railway Sidings	1938	699596
S	332m SE	Railway Sidings	1949	781185
Q	332m SW	Unspecified Tank	1949	694512
Q	332m SW	Unspecified Tank	1968	694512
Q	334m SW	Unspecified Tank	1949	759203
Q	334m SW	Unspecified Tank	1968	759203

ID	Location	Land Use	Date	Group ID
R	335m NW	Unspecified Pit	1989	781120
R	335m NW	Unspecified Pit	1976	781120
R	335m NW	Unspecified Pit	1968	781120
10	338m NW	Sandstone Quarry	1851	687475
Q	341m SW	Gasometer	1890	700725
Q	341m SW	Unspecified Tank	1938	750742
Q	342m SW	Gasometer	1890	655102
Q	343m SW	Unspecified Tank	1938	720232
S	343m SE	Unspecified Mill	1911	727584
T	344m S	Unspecified Tank	1851	674582
S	344m SE	Unspecified Mill	1890	770795
S	345m SE	Unspecified Mill	1911	727584
S	347m SE	Unspecified Mill	1949	705687
S	347m SE	Unspecified Mill	1938	705687
S	347m SE	Unspecified Commercial/Industrial	1928	694546
S	347m SE	Unspecified Commercial/Industrial	1908	700679
Q	348m SW	Gasometer	1908	700725
Q	348m SW	Unspecified Tank	1928	764525
Q	349m SW	Unspecified Tank	1928	743668
Q	349m SW	Unspecified Tank	1908	743668
S	355m SE	Unspecified Mill	1892	702432
Q	374m SW	Unspecified Ground Workings	1968	647817
11	377m S	Unspecified Pit	1968	690612
W	378m SW	Mineral Water Manufactory	1908	652967
X	381m SW	Unspecified Works	1989	765720
Y	387m SE	Disused Canal	1989	752921
Y	387m SE	Disused Canal	1976	754144
Z	394m SE	Dock Yard	1851	648876



ID	Location	Land Use	Date	Group ID
Z	396m SE	Iron Foundry	1911	697139
Z	398m SE	Iron Foundry	1949	729191
AA	398m SE	Unspecified Mill	1890	785145
W	398m SW	Laundry	1949	790076
AB	399m NE	Unspecified Pit	1928	763035
AB	399m NE	Unspecified Old Quarry	1908	696358
AC	400m N	Colliery	1891	713761
AC	401m N	Colliery	1892	771053
Z	404m SE	Unspecified Depot	1976	668790
Z	404m SE	Unspecified Commercial/Industrial	1968	735627
AD	406m S	Railway Sidings	1938	722406
AB	407m NE	Unspecified Pit	1938	701756
AA	408m SE	Unspecified Mill	1892	785145
AB	408m NE	Unspecified Old Quarry	1911	726157
W	408m SW	Laundry	1938	731509
AB	410m NE	Unspecified Old Quarry	1911	726157
AE	412m E	Unspecified Ground Workings	1891	774273
W	412m SW	Laundry	1928	737488
AF	412m S	Unspecified Ground Workings	1851	734545
W	412m SW	Unspecified Foundry	1890	655324
AB	413m NE	Unspecified Pit	1989	734315
AB	413m NE	Unspecified Pit	1976	734315
AB	413m NE	Unspecified Pit	1949	734315
AB	413m NE	Unspecified Pit	1968	734315
Z	415m E	Iron Foundry	1930	746705
Z	415m E	Iron Foundry	1909	697139
AF	416m S	Unspecified Pit	1890	716500
AF	417m S	Unspecified Ground Workings	1968	734545

ID	Location	Land Use	Date	Group ID
AE	418m E	Unspecified Ground Workings	1930	730831
AE	418m E	Unspecified Ground Workings	1909	735247
AF	418m S	Railway Sidings	1911	708705
AF	422m S	Railway Sidings	1911	708705
AF	423m S	Unspecified Pit	1928	711547
AF	423m S	Unspecified Pit	1908	786786
AF	424m S	Unspecified Heap	1938	650667
Z	425m E	Unspecified Commercial/Industrial	1891	773374
AD	426m S	Railway Sidings	1928	721033
AG	427m SE	Unspecified Tank	1989	674602
AH	427m S	Unspecified Mill	1911	784797
AD	429m S	Railway Sidings	1908	722984
AH	429m S	Unspecified Mill	1911	742153
AH	432m S	Unspecified Mill	1890	762833
AD	432m S	Railway Sidings	1949	696002
AD	432m S	Railway Sidings	1968	696002
AI	432m E	Engineering Works	1976	659516
AI	432m E	Corporation Yard	1968	681771
AH	434m S	Unspecified Mill	1928	742153
AH	435m S	Unspecified Mill	1892	762833
AH	436m S	Unspecified Mill	1908	763073
AH	437m S	Unspecified Works	1968	678941
AA	438m SE	Unspecified Tanks	1949	785537
AF	439m S	Railway Station	1949	755520
AF	439m S	Railway Station	1911	755520
12	440m N	Refuse Heap	1931	677794
AF	440m S	Railway Station	1911	728686
AA	443m SE	Unspecified Tanks	1938	786548



ID	Location	Land Use	Date	Group ID
AA	444m SE	Unspecified Tanks	1928	727066
AF	445m S	Railway Station	1989	774921
AF	447m S	Railway Station	1938	755520
AA	448m SE	Refuse Heap	1949	723917
AF	448m S	Railway Station	1976	735818
AF	448m S	Railway Station	1968	735818
AF	451m S	Railway Station	1928	755520
AF	451m S	Railway Station	1908	755520
AA	453m SE	Refuse Heap	1938	723917
AA	453m SE	Refuse Heap	1928	714610
AF	454m S	Railway Station	1890	762237
X	455m SW	Unspecified Commercial/Industrial	1949	763690
AF	457m S	Railway Station	1892	739349
AK	463m E	Unspecified Ground Workings	1891	647858
X	463m SW	Unspecified Mill	1938	736424
AF	463m S	Railway Building	1911	769970
AL	465m NW	Unspecified Heap	1928	745707
AL	467m NW	Unspecified Ground Workings	1931	647834
AM	467m SW	Refuse Heap	1949	723113
AL	468m NW	Unspecified Heap	1938	770819
AN	468m SE	Fire Brick and Pipe Works	1891	789547
AO	468m SE	Unspecified Tank	1892	674607
AD	469m S	Railway Sidings	1890	780778
AF	469m S	Railway Building	1938	754887
AM	470m SW	Refuse Heap	1928	700723
AF	470m S	Railway Station	1851	763598
AP	474m SE	Woollen Mills	1911	722381
AP	474m SE	Woollen Mills	1911	722381



ID	Location	Land Use	Date	Group ID
AK	475m E	Refuse Heap	1949	734392
AP	476m SE	Unspecified Mill	1930	696332
AP	476m SE	Unspecified Mill	1909	750042
AP	476m SE	Unspecified Mill	1949	694120
AL	477m NW	Unspecified Heap	1949	715901
AF	477m S	Railway Sidings	1892	711996
AP	479m SE	Unspecified Works	1989	701023
AP	479m SE	Unspecified Works	1976	701023
AP	479m SE	Unspecified Mill	1968	765115
AF	480m S	Railway Buildings	1938	681638
13	480m SW	Coal Pit	1851	654243
AK	480m E	Refuse Heap	1930	734392
AM	482m SW	Unspecified Heap	1968	650666
AP	483m SE	Bleaching, Dyeing and Chemical Mills	1911	692593
AP	483m SE	Bleaching and Dyeing Mills	1911	652076
AN	484m SE	Fire Brick and Pipe Works	1892	727413
AP	485m SE	Woollen Mill	1892	704813
AP	488m SE	Woollen Mill	1891	787489
AM	488m SW	Refuse Heap	1938	782494
AQ	489m S	Unspecified Pit	1976	724748
AQ	489m S	Unspecified Pit	1968	724748
14	490m E	Wharf	1851	679443
X	490m SW	Unspecified Mill	1928	736424
AL	491m NW	Refuse Heap	1909	705909
AL	492m NW	Refuse Heap	1968	718126
AF	492m S	Railway Building	1949	670163
AO	492m SE	Unspecified Pit	1938	690613
AR	494m SW	Unspecified Mill	1949	731068



ID	Location	Land Use	Date	Group ID
AR	494m SW	Unspecified Commercial/Industrial	1968	643242
AF	494m S	Railway Building	1949	764995
15	495m S	Unspecified Works	1968	779166
AF	496m S	Railway Buildings	1911	681639
AR	497m SW	Unspecified Mill	1938	754877
AF	497m S	Railway Building	1911	712606
AF	498m S	Railway Building	1911	716019
AF	498m S	Railway Building	1968	764995
AS	498m W	Refuse Heap	1976	774346
AS	498m W	Refuse Heap	1968	774346

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

77

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 27**

ID	Location	Land Use	Date	Group ID
B	On site	Tanks	1910	88970
B	On site	Tanks	1930	88970
B	On site	Tanks	1937	88970
B	8m N	Gasometer	1891	78071
3	118m NE	Unspecified Tank	1989	83996
G	166m SW	Unspecified Tank	1978	88858
G	166m SW	Unspecified Tank	1970	98430
E	214m SW	Unspecified Tank	1910	83997
C	236m E	Tanks	1910	99015
C	236m E	Tanks	1930	99015



ID	Location	Land Use	Date	Group ID
C	236m E	Tanks	1937	99015
C	238m NE	Unspecified Tank	1995	104243
C	238m NE	Unspecified Tank	1989	104243
I	273m E	Unspecified Tank	1983	92214
I	273m E	Unspecified Tank	1989	92214
I	273m E	Unspecified Tank	1989	92214
I	274m E	Unspecified Tank	1993	92214
E	278m SW	Unspecified Tank	1891	102252
E	278m SW	Unspecified Tank	1910	102252
E	278m SW	Unspecified Tank	1930	102252
O	284m SE	Unspecified Tank	1983	93955
O	285m SE	Unspecified Tank	1983	93209
O	285m SE	Unspecified Tank	1975	97526
O	285m SE	Unspecified Tank	1975	100294
Q	286m SW	Gas Works	1891	95506
Q	287m SW	Gas Works	1965	95822
Q	288m SW	Gas Works	1910	100454
C	288m E	Unspecified Tank	1891	83995
R	293m NW	Unspecified Tank	1910	103922
R	293m NW	Unspecified Tank	1930	103922
R	293m NW	Unspecified Tank	1937	103922
R	301m NW	Unspecified Tank	1962	101648
R	301m NW	Unspecified Tank	1960	101648
Q	306m SW	Tanks	1910	89991
Q	306m SW	Tanks	1930	89991
Q	306m SW	Tanks	1937	89991
P	312m SW	Unspecified Tank	1959	91409
P	313m SW	Unspecified Tank	1970	91409

ID	Location	Land Use	Date	Group ID
P	313m SW	Unspecified Tank	1960	91409
C	313m NE	Unspecified Tank	1910	99351
C	313m NE	Unspecified Tank	1930	99351
C	313m NE	Unspecified Tank	1937	99351
P	318m SW	Unspecified Tank	1978	94302
Q	333m SW	Tanks	1959	87603
Q	335m SW	Unspecified Tank	1960	88852
Q	335m SW	Gasometer	1965	89976
Q	335m SW	Unspecified Tank	1960	103887
Q	335m SW	Gasometer	1965	97448
Q	341m SW	Gasometer	1891	99748
Q	341m SW	Gasometer	1910	99748
Q	341m SW	Unspecified Tank	1930	96881
Q	341m SW	Unspecified Tank	1937	96881
Q	341m SW	Gasometer	1891	99858
Q	341m SW	Gasometer	1910	99858
Q	341m SW	Unspecified Tank	1930	98765
Q	341m SW	Unspecified Tank	1937	98765
Q	344m SW	Unspecified Tank	1970	89023
Q	344m SW	Unspecified Tank	1960	89023
Q	351m SW	Unspecified Tank	1960	96868
Q	351m SW	Unspecified Tank	1985	94240
Z	412m SE	Unspecified Tank	1962	83998
AA	414m SE	Unspecified Tank	1930	91900
AA	414m SE	Unspecified Tank	1937	91900
Z	415m SE	Unspecified Tank	1930	93388
Z	415m SE	Unspecified Tank	1937	93388
AG	424m SE	Unspecified Tank	1993	97964



ID	Location	Land Use	Date	Group ID
AG	426m SE	Unspecified Tank	1989	97964
AG	426m SE	Unspecified Tank	1989	97964
AA	443m SE	Filter Tanks	1930	101673
AA	443m SE	Filter Tanks	1937	101673
AA	444m SE	Filter Tanks	1910	95588
AJ	452m SW	Unspecified Tank	1996	102969
AJ	452m SW	Unspecified Tank	1999	102969
AJ	454m SW	Unspecified Tank	1988	95131
AA	461m SE	Unspecified Tank	1977	91679
AA	462m SE	Unspecified Tank	1988	91679
AA	462m SE	Unspecified Tank	1988	91679

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

35

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 27**

ID	Location	Land Use	Date	Group ID
B	8m N	Gasometer	1891	46123
B	62m NW	Electricity Substation	1988	58638
B	62m NW	Electricity Substation	1988	58638
F	164m E	Electricity Substation	1975	49467
F	165m E	Electricity Substation	1993	49467
F	165m E	Electricity Substation	1983	49467
F	165m E	Electricity Substation	1989	49467
F	165m E	Electricity Substation	1989	49467
P	278m SW	Electricity Substation	1989	49777



ID	Location	Land Use	Date	Group ID
P	278m SW	Electricity Substation	1978	49777
P	279m SW	Electricity Substation	1970	49777
I	280m E	Electricity Substation	1993	51930
I	281m E	Electricity Substation	1989	51930
I	281m E	Electricity Substation	1989	51930
Q	286m SW	Gas Works	1891	52656
Q	287m SW	Gas Works	1965	48366
Q	288m SW	Gas Works	1910	52085
H	297m S	Electricity Substation	1993	54313
H	298m S	Electricity Substation	1988	54313
C	319m NE	Electricity Substation	1989	51307
C	320m NE	Electricity Substation	1995	51307
U	329m S	Electricity Substation	1993	52975
U	330m S	Electricity Substation	1988	52975
Q	335m SW	Gasometer	1965	57809
Q	335m SW	Gasometer	1965	53653
Q	341m SW	Gasometer	1891	50604
Q	341m SW	Gasometer	1910	50604
Q	341m SW	Gasometer	1891	57996
Q	341m SW	Gasometer	1910	57996
V	365m W	Electricity Substation	1989	56531
V	365m W	Electricity Substation	1978	57874
V	366m W	Electricity Substation	1970	57874
AA	465m SE	Electricity Substation	1977	50129
AA	466m SE	Electricity Substation	1988	56882
AA	466m SE	Electricity Substation	1988	56882

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

20

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 27**

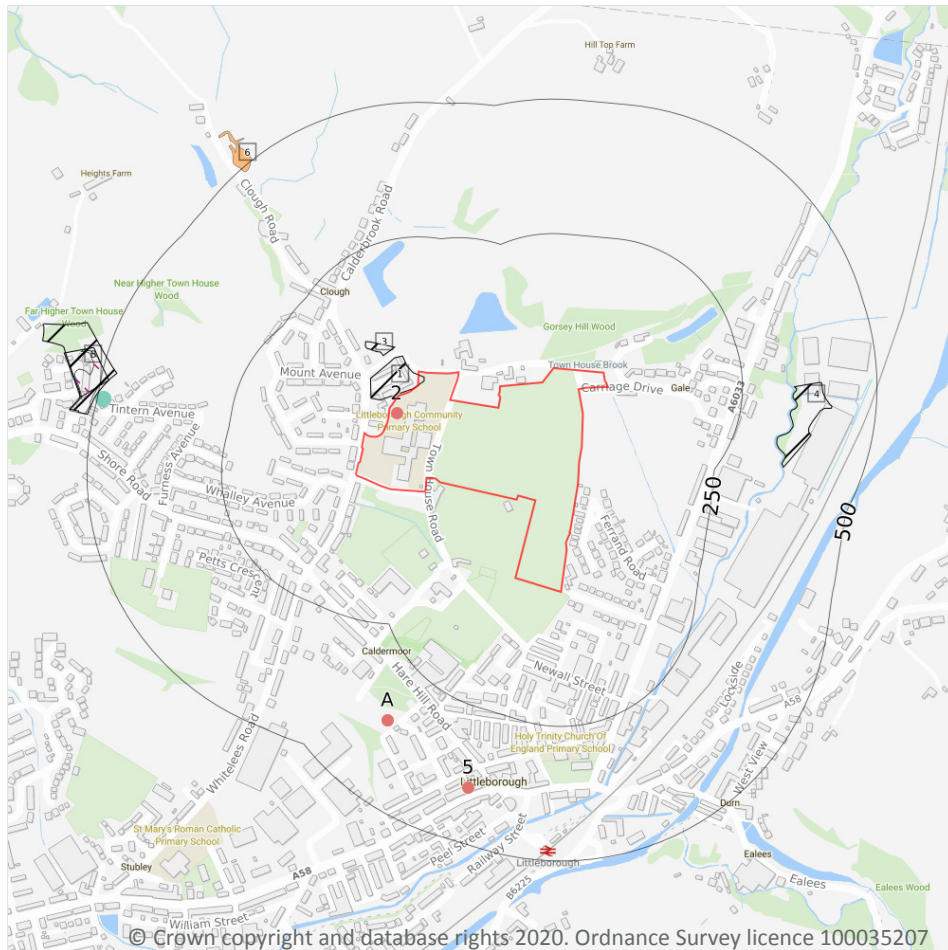
ID	Location	Land Use	Date	Group ID
K	207m E	Garage	1975	16356
K	209m E	Garage	1983	19796
K	209m E	Garage	1989	19796
K	209m E	Garage	1989	19796
K	210m E	Garage	1960	17285
K	210m E	Garage	1993	15320
K	210m E	Garage	1962	17285
S	343m SE	Vehicle Dismantling Yard	1983	17635
S	343m SE	Vehicle Dismantling Yard	1989	17635
S	343m SE	Vehicle Dismantling Yard	1989	17635
S	343m SE	Vehicle Dismantling Yard	1993	19549
S	344m SE	Vehicle Dismantling Yard	1975	19549
AA	396m SE	Garage	1988	18593
AA	396m SE	Garage	1988	18593
AA	396m SE	Garage	1962	15512
AA	397m SE	Garage	1961	18593

ID	Location	Land Use	Date	Group ID
AA	397m SE	Garage	1977	18593
AM	483m SW	Garage	1988	15557
AM	485m SW	Garage	1999	19679
AM	485m SW	Garage	1996	19679

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

1

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

Features are displayed on the Waste and landfill map on **page 44**



ID	Location	Address	BGS Number	Risk	Waste Type
B	489m W	Share Mill, Shane, Littleborough, Lancs	503	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	1
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 44**

ID	Location	Site address	Source	Data type
B	500m W	Refuse Tip	1962 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	5
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 44**

ID	Location	Details		
1	On site	Site Address: Calderbrook Industrial Works, Off Calderbrook Road, Littleborough, Greater Manchester Licence Holder Address: Calderbrook Road, Littleborough, Lancashire	Waste Licence: Yes Site Reference: GDO D019, RD/LIC/393/85, 3985 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13/08/1985 Licence Surrender: 27/11/1986	Operator: - Licence Holder: Mintonhope Limited First Recorded: - Last Recorded: -

ID	Location	Details		
3	63m NW	Site Address: Calderbrook Industrial Works, Off Calderbrook Road, Littleborough, Greater Manchester Licence Holder Address: Calderbrook Road, Littleborough, Lancashire	Waste Licence: Yes Site Reference: GDO D019, RD/LIC/393/85, 3985 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13/08/1985 Licence Surrender: 27/11/1986	Operator: - Licence Holder: Mintonhope Limited First Recorded: - Last Recorded: -
4	328m E	Site Address: PLYSU, Off Todmorden Road, Gale, Littleborough, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D103 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -
B	473m W	Site Address: Ashe Laboratories, Off Shore Road, Shore, Littleborough, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D093 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -
B	485m W	Site Address: Shore Mill, Shane, Littleborough, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Ashe Laboratories Licence Holder: - First Recorded: - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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 44**



ID	Location	Address	Further Details	Date
6	490m NW	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1992

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

3.6 Licensed waste sites

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

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

3.7 Waste exemptions

Records within 500m	4
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

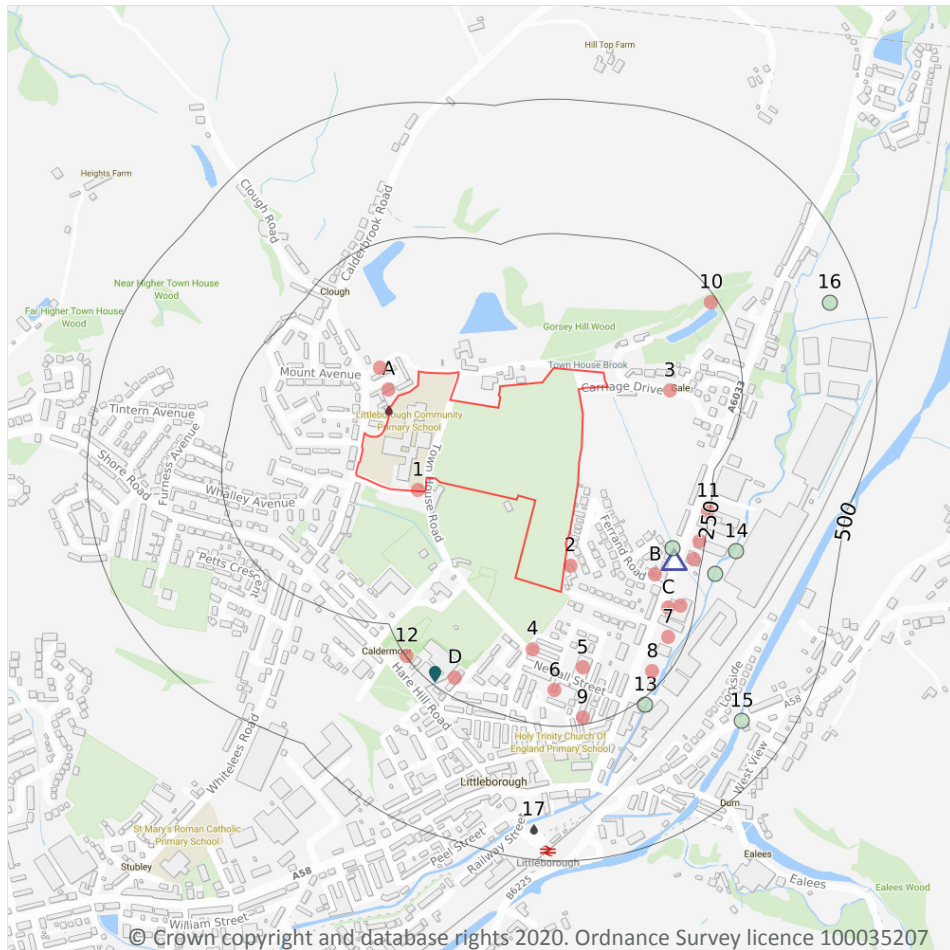
Features are displayed on the Waste and landfill map on **page 44**

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	Littleborough Community Primary & Nursery Calderbrook Road LITTLEBOROUGH Lancashire OL15 9HW	EPR/GH0219Q G/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	356m SW	Hares Hill Farm Hares Hill Road OL15 9AD	EPR/SE5283AY /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
A	356m SW	Hares Hill Farm Hares Hill Road OL15 9AD	EPR/SE5283AY /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
5	398m S	60, CHURCH STREET, LITTLEBOROUGH, OL15 8AU	WEX162347	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

20

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
2	10m E	A 2 B Mobile Servicing	30, Dearden Street, Littleborough, Greater Manchester, OL15 9DZ	Vehicle Repair, Testing and Servicing	Repair and Servicing



ID	Location	Company	Address	Activity	Category
A	22m NW	Cropper J P Audiology Services	8, Ballard Close, Littleborough, Greater Manchester, OL15 9HN	Disability and Mobility Equipment	Consumer Products
A	63m NW	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
3	115m E	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
4	117m S	North West Site Services	19, Central Avenue, Littleborough, Greater Manchester, OL15 9DU	Civil Engineers	Engineering Services
5	146m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
B	169m E	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
6	183m S	Rochdale House Clearance	7, Phoenix Street, Littleborough, Greater Manchester, OL15 9DR	Clearance and Salvage Dealers	Recycling Services
C	202m E	C R P	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	General Construction Supplies	Industrial Products
7	216m SE	Depot	Greater Manchester, OL15	Container and Storage	Transport, Storage and Delivery
D	216m SW	Moore Security Solutions Ltd	19, Sale Street, Littleborough, Greater Manchester, OL15 9BB	Electronic Equipment	Industrial Products
C	224m E	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
8	225m SE	Depot	Greater Manchester, OL15	Container and Storage	Transport, Storage and Delivery
B	235m E	Apollo Motorhome s	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Vehicle Repair, Testing and Servicing	Repair and Servicing
9	237m S	Abacus Weighing Services	7, Howarth Street, Littleborough, Greater Manchester, OL15 9DN	Measurement and Inspection Equipment	Industrial Products
10	239m NE	Tank	Greater Manchester, OL15	Tanks (Generic)	Industrial Features
B	241m E	Depot	Greater Manchester, OL15	Container and Storage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
11	247m E	Green Bros Land Rovers Ltd	Unit 1 Riverside Works, Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Secondhand Vehicles	Motoring
12	248m SW	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities

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 48**

ID	Location	Company	Address	LPG	Status
B	199m E	UK	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	No	Closed

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

1

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

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Address	Details	
D	233m SW	Proofings Coated Textiles Ltd, 64 Hare Hill Road, Littleborough, Lancashire, OL15 9HE	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

2

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

Features are displayed on the Current industrial land use map on **page 48**



ID	Location	Address	Details	
A	1m W	NEW PLATT FARM, CARRIAGE DRIVE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0172/1858 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 19/10/1972 Effective Date: 19/10/1972 Revocation Date: -
17	444m S	ACCESS RAMP & CAR PARK SWO, ADJACENT LITTLEBOROUGH CAR PARK, LITTLEBOROUGH	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991149 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/10/1991 Revocation Date: 23/10/1991

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

6

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

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Details	
B	192m E	Incident Date: 20/09/2002 Incident Identification: 109323 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	262m SE	Incident Date: 25/09/2003 Incident Identification: 192529 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	279m E	Incident Date: 26/11/2002 Incident Identification: 123182 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	310m E	Incident Date: 12/06/2004 Incident Identification: 243857 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	412m SE	Incident Date: 11/08/2002 Incident Identification: 99330 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
16	439m E	Incident Date: 13/06/2001 Incident Identification: 8934 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	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.