



U M B R E L L A
ENVIRONMENTAL
PROTECTING YOUR BUSINESS

Site Condition Report

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CIWM

Affiliated Organisation 2025
Together, we stand for a world beyond waste

Site Address:

3R Technology UK Limited

Unit 21-22 Roman Way Longridge Road
Preston
PR2 5BB



Registered Office:

Unit 21-22 Roman Way Longridge Road
Preston
PR2 5BB

Application Reference:

EPR/TP3602SH/V001

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19/02/2026

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Terms and Definitions

Not all terms will be used in this document.

Term	Definition
Auditor	Person with the competence to conduct an audit.
Continual improvement	Recurring process of enhancing the environmental management system in order to achieve improvements in overall environmental performance.
Corrective action	Action to eliminate the cause of a detected nonconformity.
Document	Information and its supporting media.
Environment	Surroundings in which site operates, including air, water, land, natural resources, flora, fauna, humans, and their interrelation.
Environmental aspect (EA)	Elements of sites activities or products or services that can interact with the environment.
Environmental impact	Any change to the environment, whether adverse or beneficial, wholly or partially resulting from sites environmental aspects.
Environmental management system (EMS)	Part of sites management system used to develop and implement its environmental policy and manage its environmental aspects.
Environmental objective	Overall environmental goal, consistent with the environmental policy.
Environmental performance	Measurable results of sites management of its environmental aspects.
Environmental policy	Overall intentions and directions of sites related to its environmental performance.
Environmental target	Detailed performance requirement applicable to site or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.
Interested party	Person or group concerned with or affected by the environmental performance of site.
Internal audit	Systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which the environmental management system audit criteria set by site are fulfilled.
Nonconformity	Non-fulfilment of a requirement.

Organisation	Site/Operator
EP	Environmental Permit.
NTS	Non-technical Summary.
ERA	Environmental Risk Assessment.
SCR	Site Condition Report.
EMS_OT	Environmental Management System and Operating Techniques. Compliant with Permit Condition 1.1.1.
FPP	Fire Prevention Plan.
NVMP	Noise and Vibration Management Plan.
OMP	Odour Management Plan.
Appropriate Measures	Appropriate measures are the standards that operators should meet to comply with their environmental permit requirements.
Site	Location of waste activities.
EA	Environment Agency
HSE	Health and Safety Executive
TCM	Technically Competent Manager

1 SITE DETAILS							
Name of the applicant	3R Technology UK Limited						
Activity address	Unit 21-22 Roman Way Longridge Road Preston PR2 5BB						
National grid reference	SD 58158 32772						
Document reference and dates for Site Condition Report at permit application and surrender	See Error! Reference source not found.						
Document references for site plans (including location and boundaries)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">027.1_09_001</td> <td style="padding: 2px;">Permit Boundary Plan (0</td> </tr> <tr> <td style="padding: 2px;">Drawing Number 2</td> <td style="padding: 2px;">Site Layout Plan ()</td> </tr> <tr> <td style="padding: 2px;">027.1_09_006</td> <td style="padding: 2px;">2 km Sensitive Receptors (</td> </tr> </table>	027.1_09_001	Permit Boundary Plan (0	Drawing Number 2	Site Layout Plan ()	027.1_09_006	2 km Sensitive Receptors (
027.1_09_001	Permit Boundary Plan (0						
Drawing Number 2	Site Layout Plan ()						
027.1_09_006	2 km Sensitive Receptors (

2 CONDITION OF THE LAND AT PERMIT ISSUE

Environmental setting including:

- geology
- hydrogeology
- surface waters

Geology

Superficial and Drift Geology	Superficial Layer - Secondary A Aquifer
Bedrock and Solid Geology	Bedrock Geology - Principal Aquifer

Hydrogeology

The bedrock underlying the site is classified as a Principal aquifer, defined as "These are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer

Hydrology

There are drains which lie to the south west of the site which eventually drain to the river ribble.

SURFACE WATER			
-	Pond off Longridge Road	215 m	WSW
-	Multiple Ponds within Arable Land east of Longridge Road	462 m	ENE
-	Multiple Ponds within Arable Land west of Longridge Road	665 m	NNW
-	River Ribble	743 m	SSE
-	Tun Brook	759 m	SE
-	Multiple Attenuation Ponds east of M6	1495 m	S
-	Savick Brook	1670 m	NW
-	Bezza Brook	1813 m	SSE

Pollution history including:

<p>pollution incidents that may have affected land historical land-uses and associated contaminants any visual/olfactory evidence of existing contamination evidence of damage to pollution prevention measures</p>	
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	
<p>Baseline soil and groundwater reference data</p>	
<p>Supporting information</p>	<ul style="list-style-type: none"> • Source information identifying environmental setting and pollution incidents • Historical Ordnance Survey plans • Site reconnaissance • Historical investigation / assessment / remediation / verification reports • Baseline soil and groundwater reference data

3 PERMITTED ACTIVITIES

Permitted activities

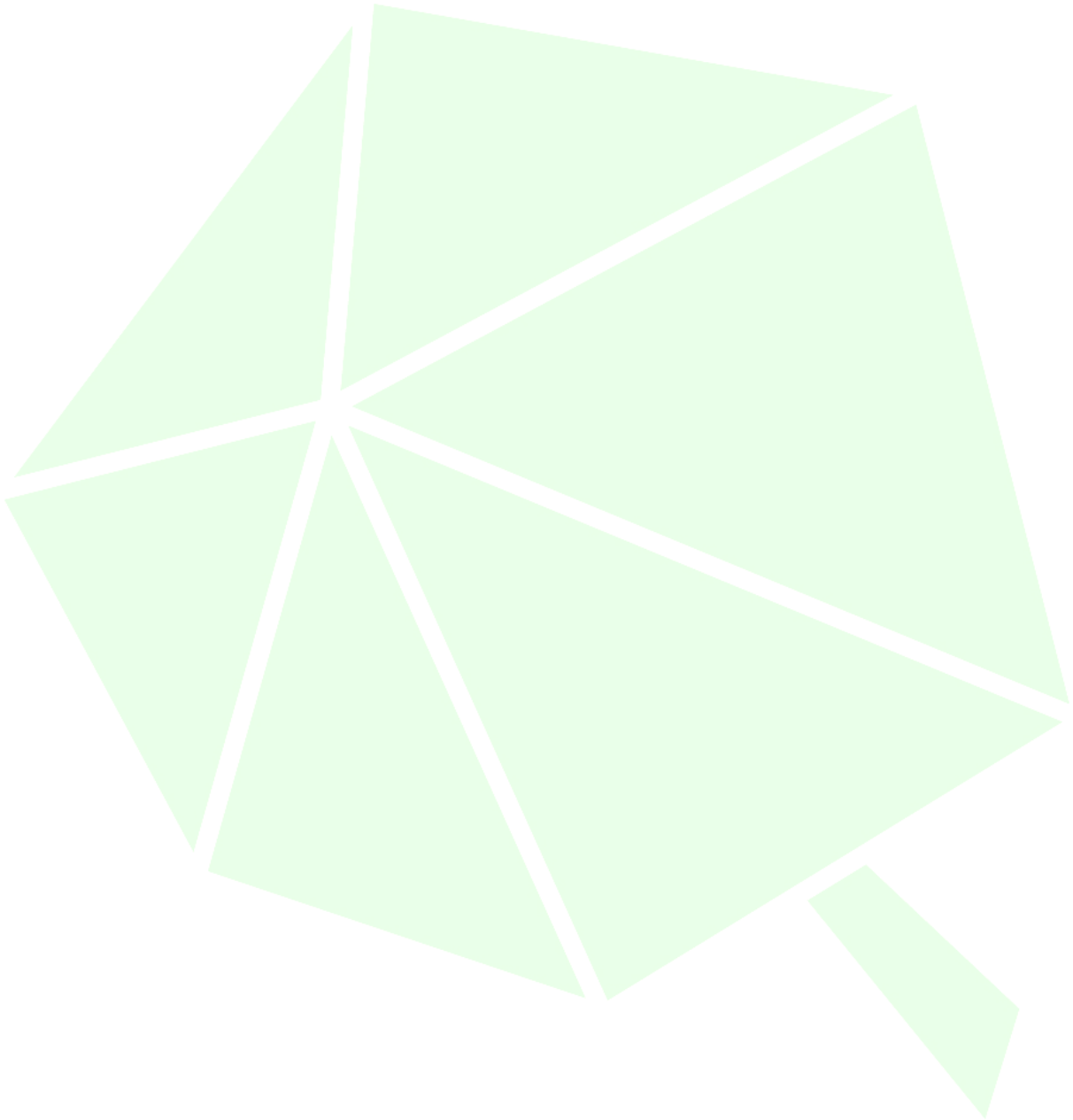
Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.3A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	D9:Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12	<p>From receipt of hazardous waste into the treatment process to the transfer of recovered component polymers.</p> <p>Physical treatment including manual and mechanical sorting and separation, shredding, screening, washing and granulating of hazardous waste for disposal.</p> <p>Treatment of WEEE plastics shall be carried out within a building.</p> <p>Waste shall be stored and treated within a building on an impermeable surface with</p>

				sealed drainage system.
				Waste types as specified in Schedule 2, table 2.2
	AR2	S5.6 A(1)(a) The temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in sections 5.1, 5.2 and 5.3.	Storage of hazardous waste prior to treatment or disposal. D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste to introduction into the treatment process and the storage for disposal off site. Waste shall be stored and treated within a building on an impermeable surface with sealed drainage system. Waste types as specified in Schedule 2, table 2.2
	Directly Associated Activity			
AR3	Process water filtration	Filtering of particulates and solids from recirculating water from wash and float/sink tanks via vibrating screens.	From the filtration of process waters to the transfer of filter cake off site. Process waters for recirculation into the process or for disposal offsite.	
Table S1.1 activities				

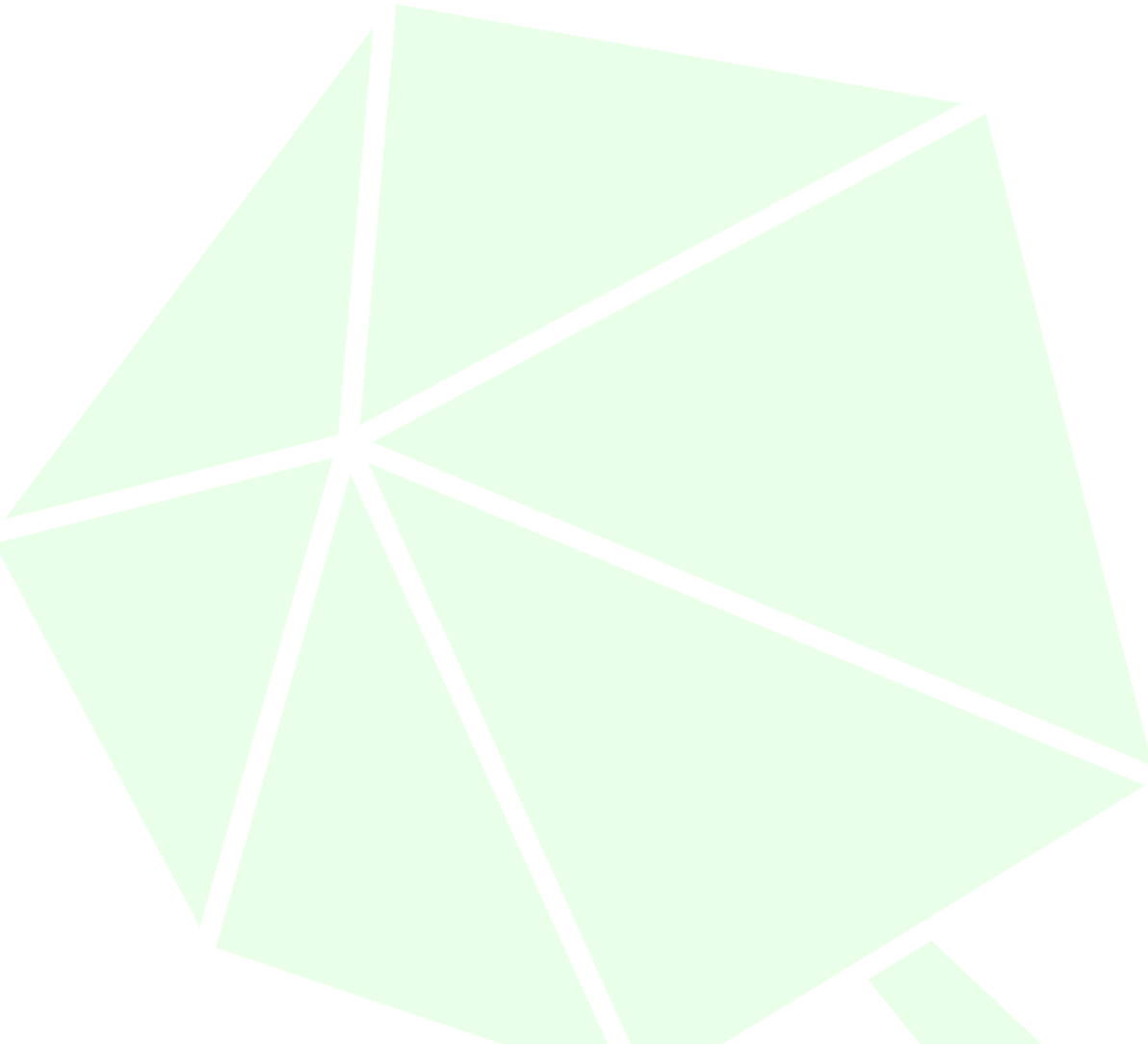
	Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
	Activity reference	Description of activities for waste operations		Limits of activities
	AR4	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)		Storage of waste prior to submission to treatment operations on site. Waste shall be stored and treated within a building on an impermeable surface with sealed drainage system. Waste types as specified in Table 2.2
AR5	R3: Recycling/reclamation of organic substances which are not used as solvents		Physical treatment including manual and mechanical sorting and separation, shredding, screening, washing and granulating of waste for recovery. Waste shall be stored and treated on an impermeable surface with sealed drainage system. Waste types as specified in Table 2.2	
Non-permitted activities undertaken	N/A			
Document references for:	<ul style="list-style-type: none"> • 027.1_05_003 ERA D1 • Storage ID drawing 			

<ul style="list-style-type: none">• plan showing activity layout; and• environmental risk assessment.	
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4 CHANGES TO THE ACTIVITY	
Have there been any changes to the activity boundary?	<ul style="list-style-type: none"> Additional waste codes
Have there been any changes to the permitted activities?	<ul style="list-style-type: none"> Processing new waste codes through same equipment Transfer of batteriees
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	No
Checklist supporting information	<ul style="list-style-type: none"> Plan showing any changes to the boundary (where relevant) Description of the changes to the permitted activities (where relevant) List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5 MEASURES TAKEN TO PROTECT LAND

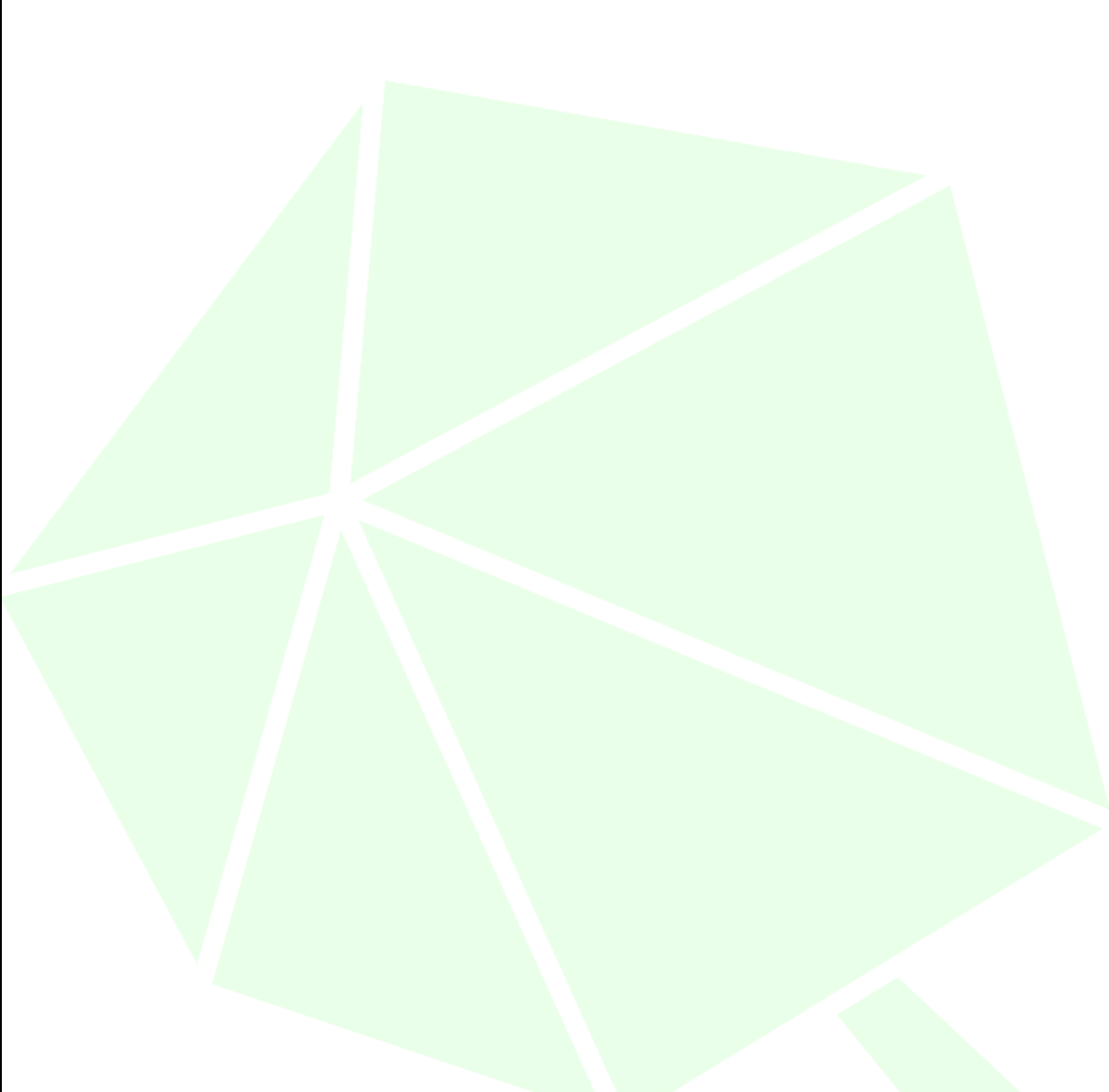


Checklist supporting information

of

- Inspection records and summary of findings of inspections for all pollution prevention measures
- Records of maintenance, repair and replacement of pollution prevention measures

6 POLLUTION INCIDENTS THAT MAY HAVE HAD AN IMPACT ON LAND, AND THEIR REMEDIATION

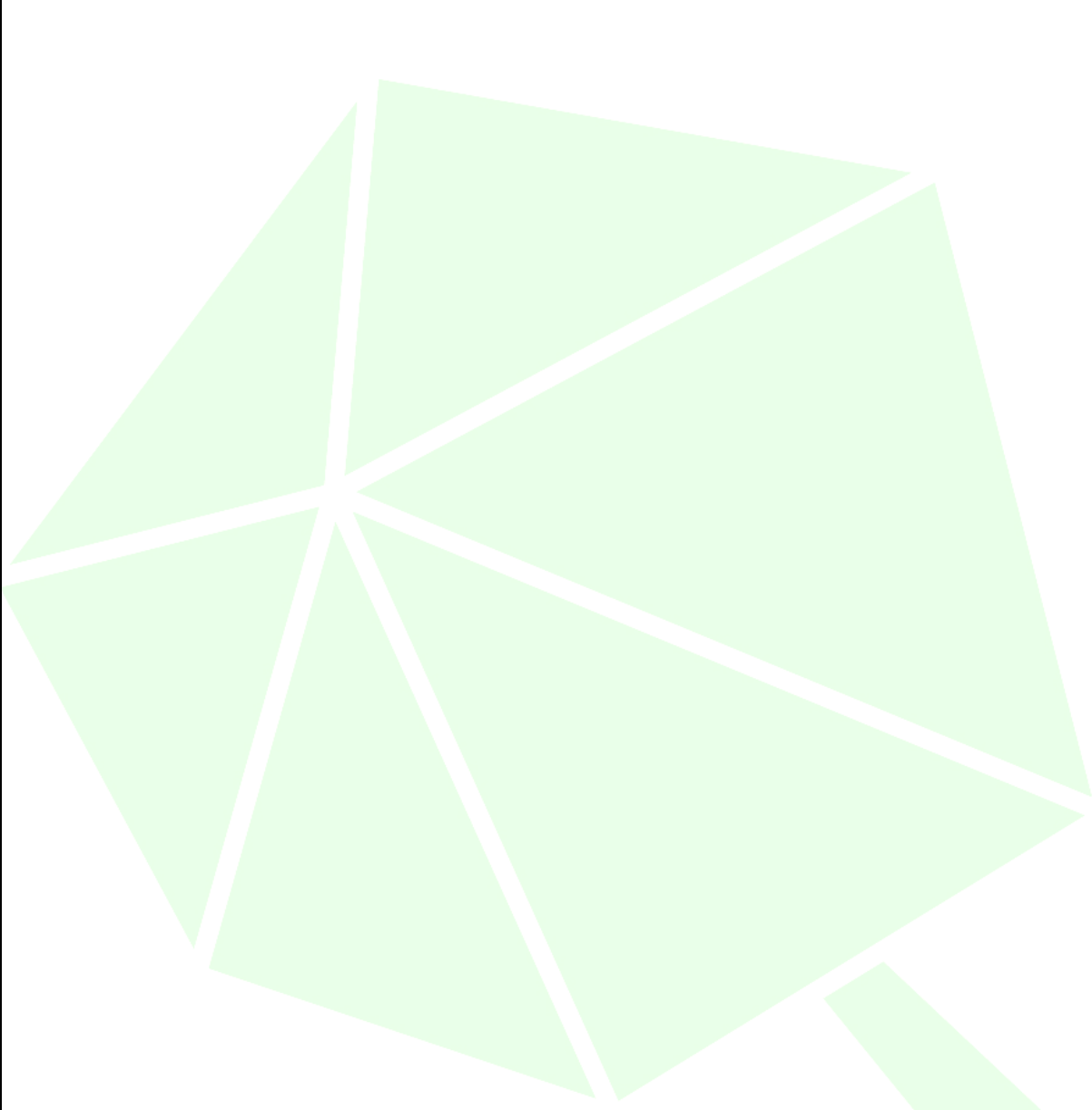


**Checklist
supporting
information**

of

- Records of pollution incidents that may have impacted on land
- Records of their investigation and remediation

7 SOIL GAS AND WATER QUALITY MONITORING (WHERE UNDERTAKEN)

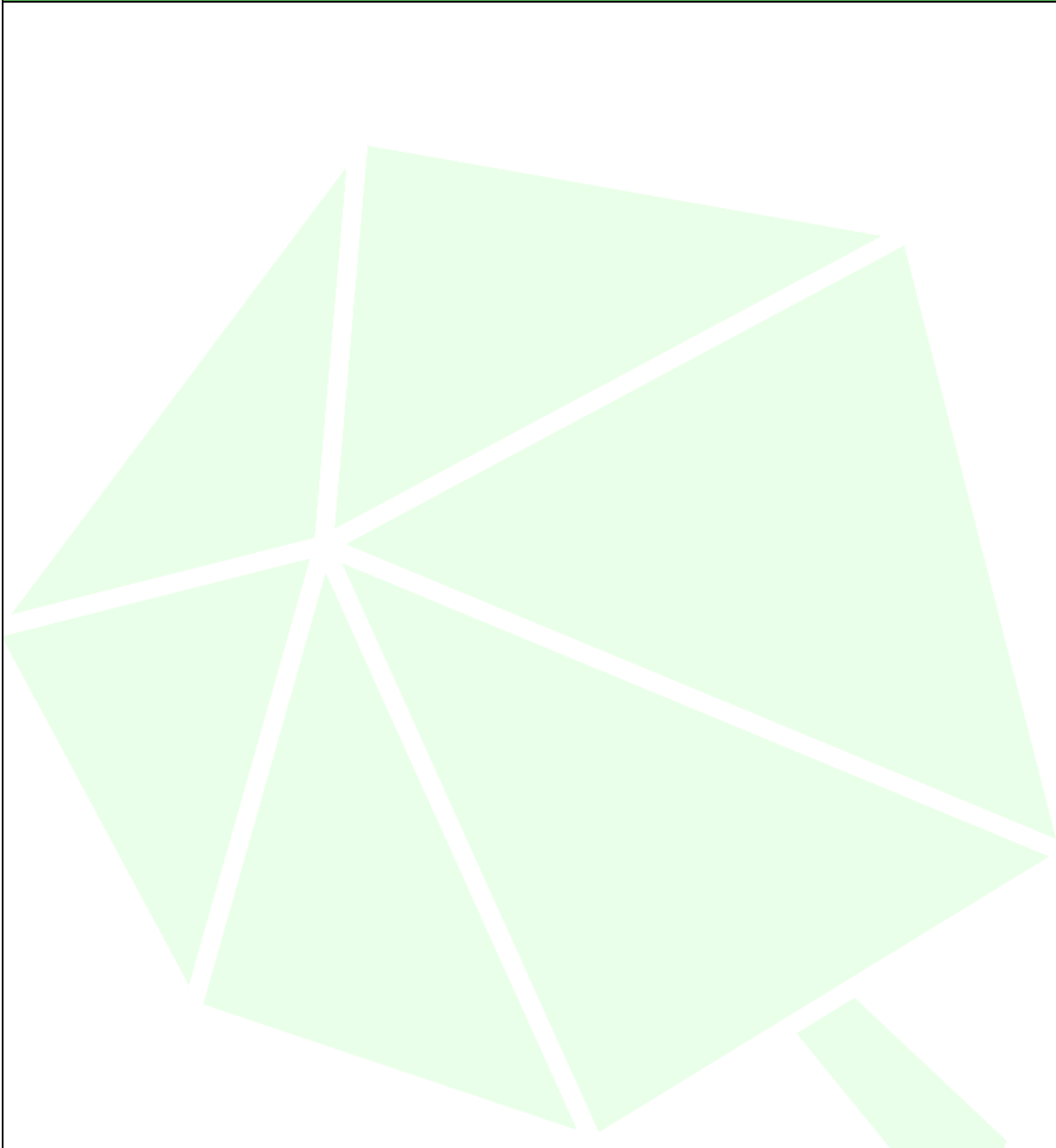


Checklist supporting information

of

**Description of soil gas and/or water monitoring undertaken
Monitoring results (including graphs)**

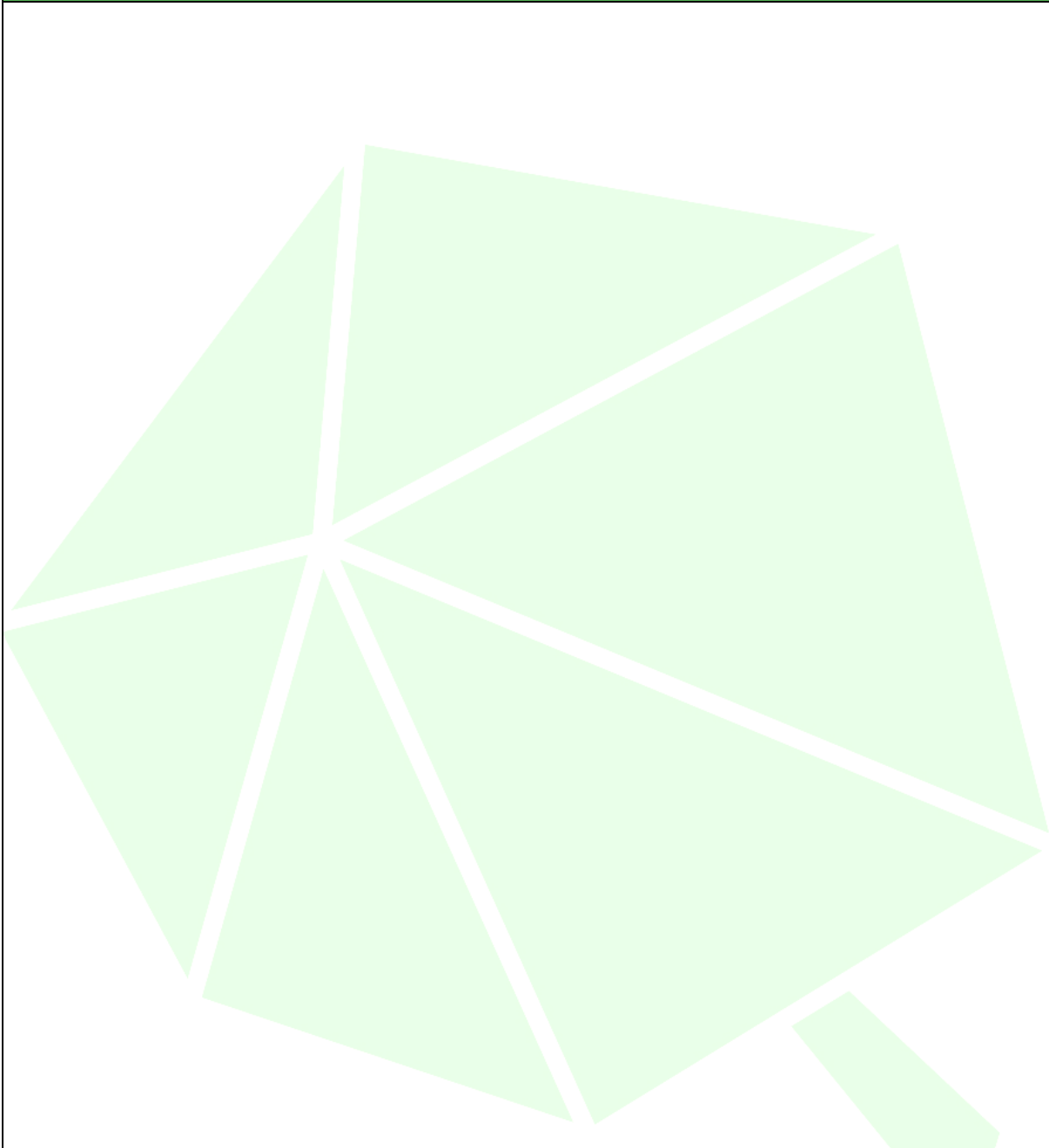
8 DECOMMISSIONING AND REMOVAL OF POLLUTION RISK



Checklist of supporting information

- Site closure plan
- List of potential sources of pollution risk
- Investigation and remediation reports (where relevant)

9 REFERENCE DATA AND REMEDIATION (WHERE RELEVANT)

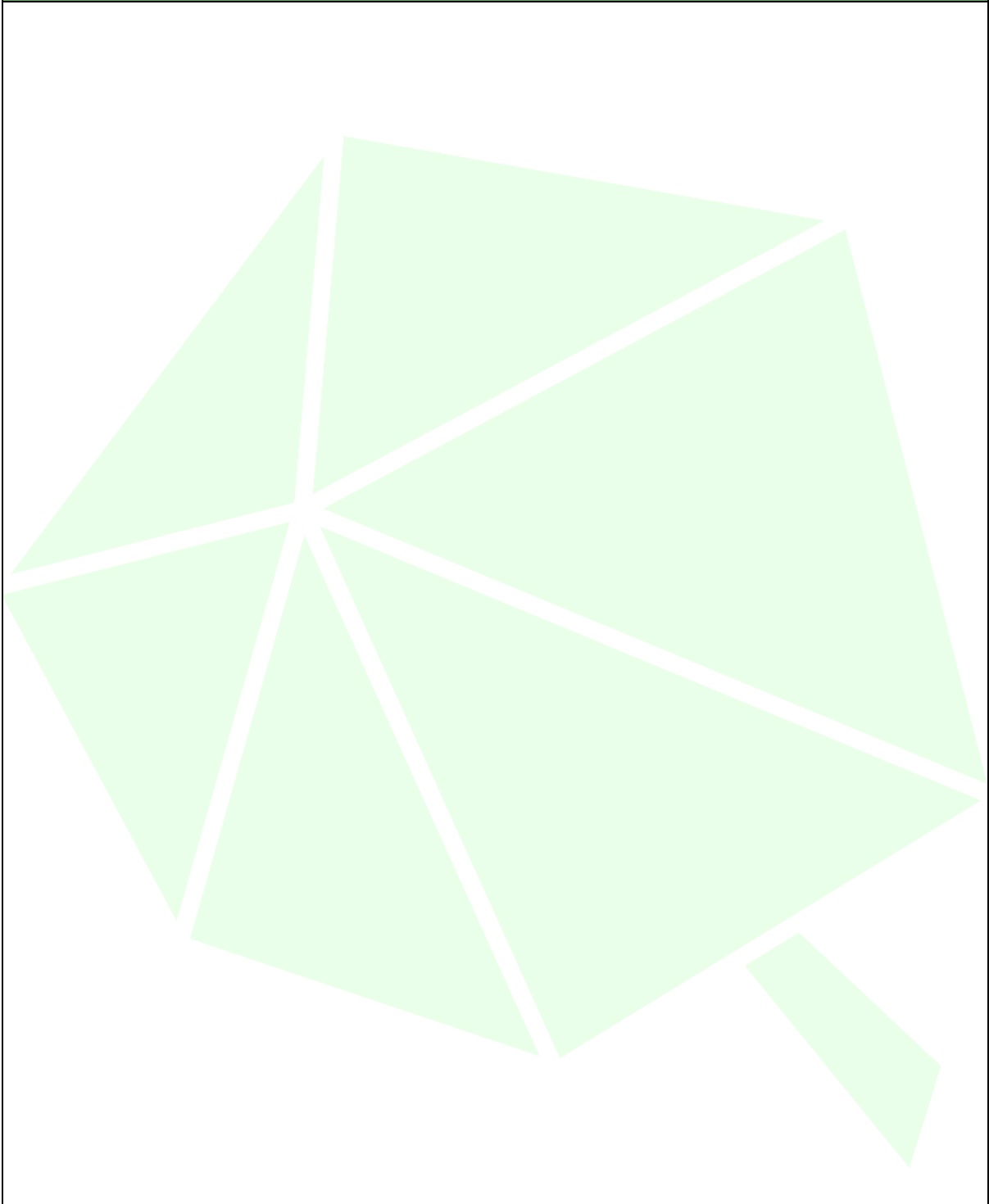


**Checklist
supporting
information**

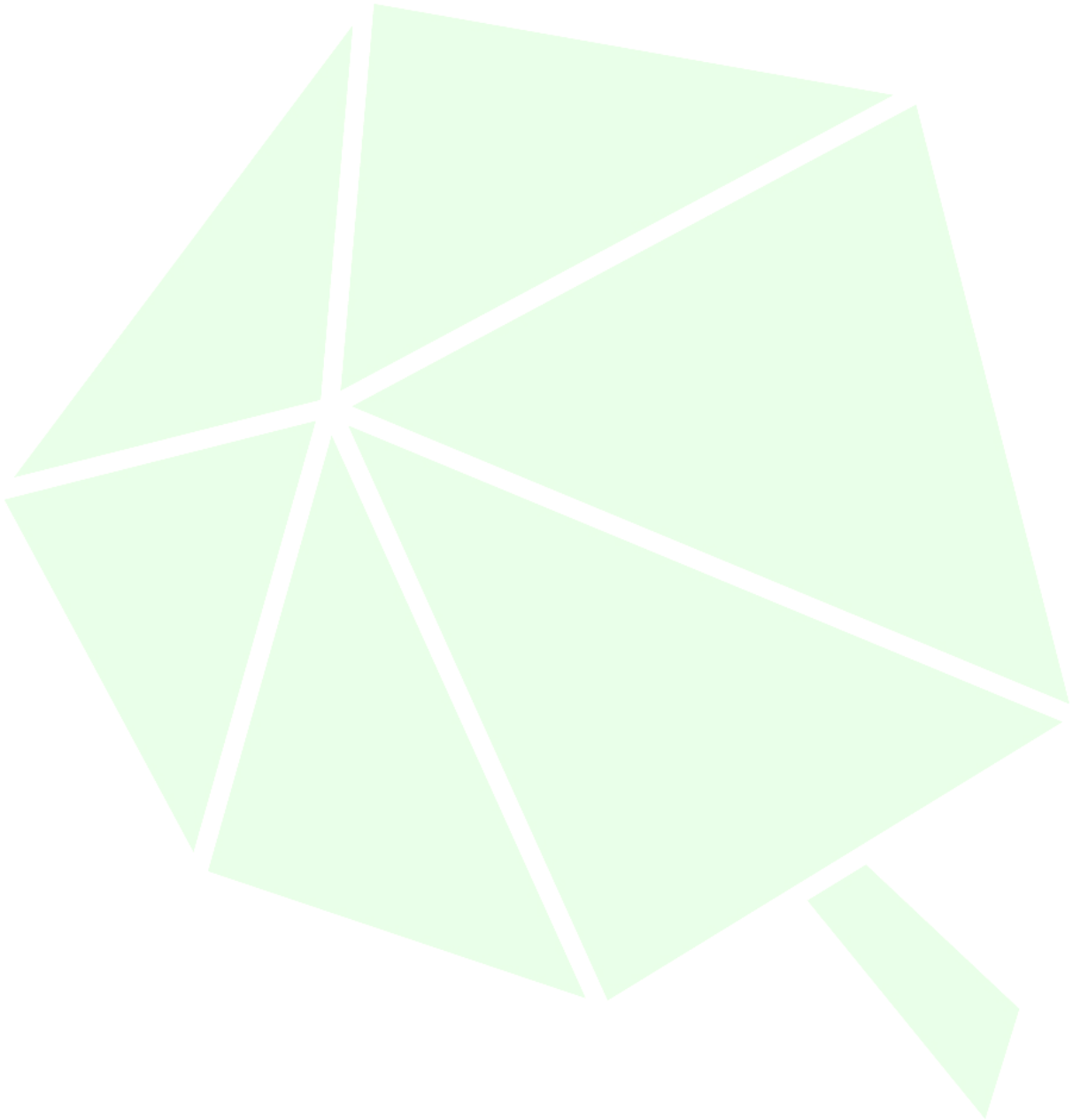
of

- Land and/or groundwater data collected at application (if collected)
- Land and/or groundwater data collected at surrender (where needed)
- Assessment of satisfactory state
- Remediation and verification reports (where undertaken)

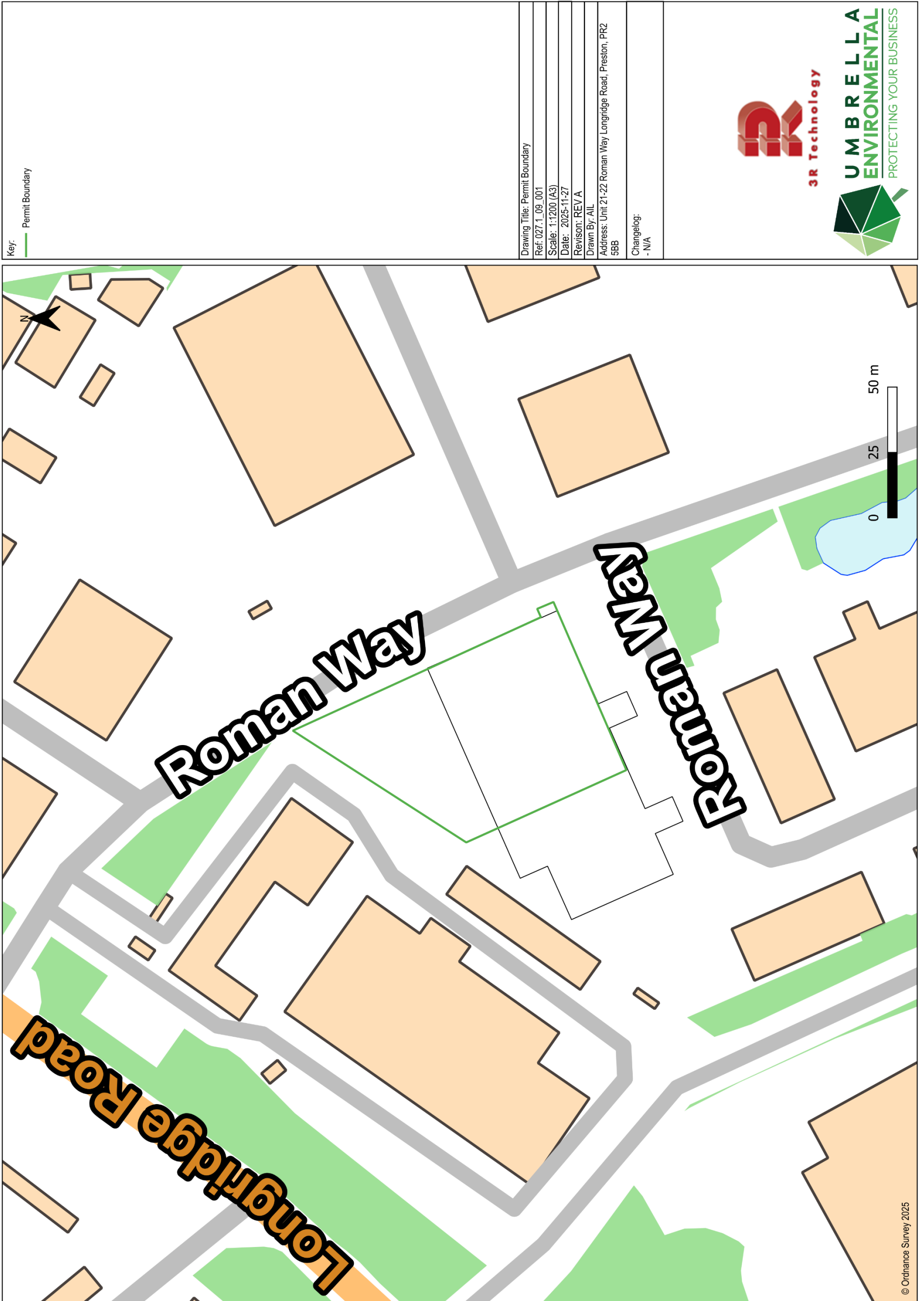
10 STATEMENT OF SITE CONDITION



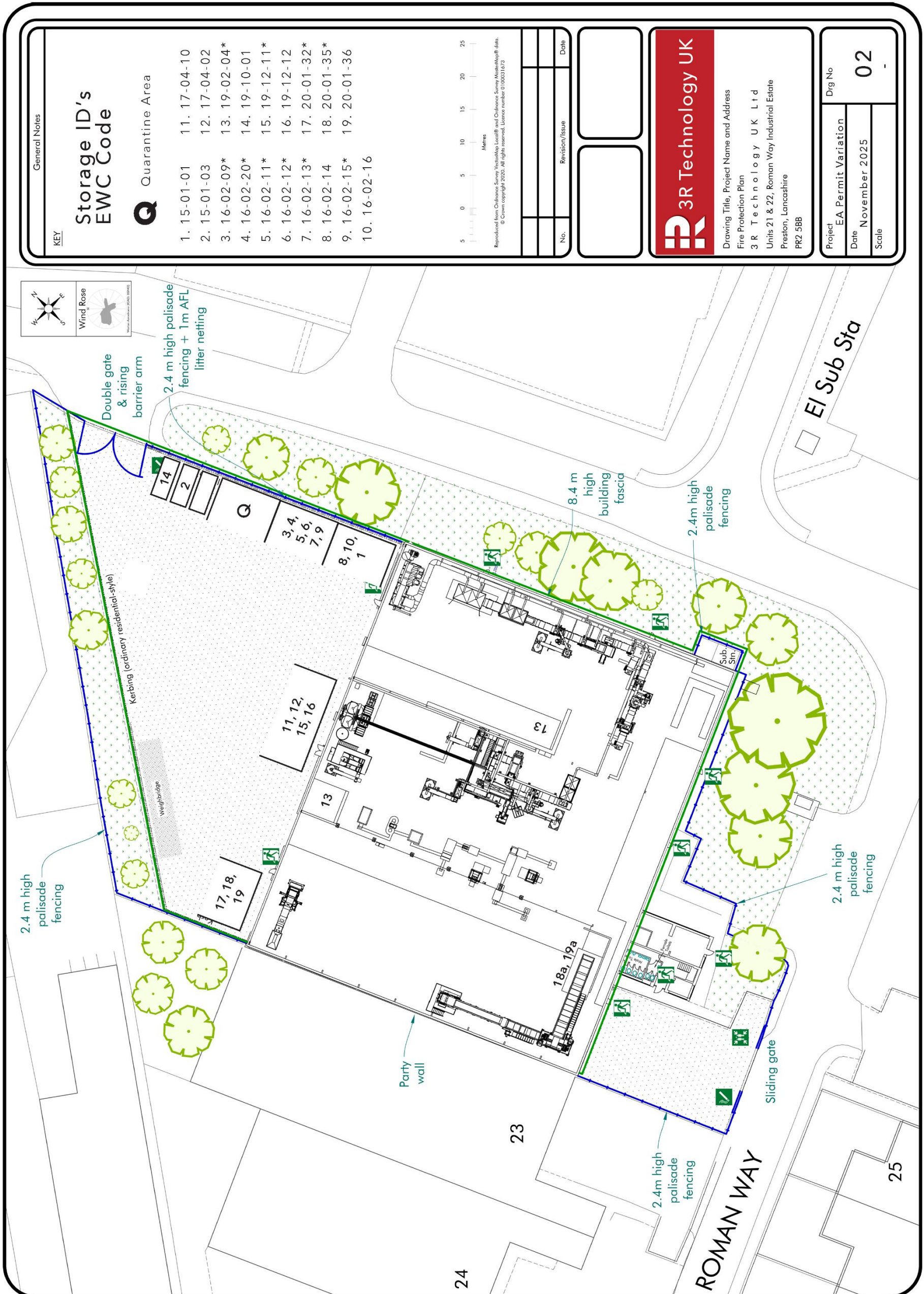
11 DRAWING



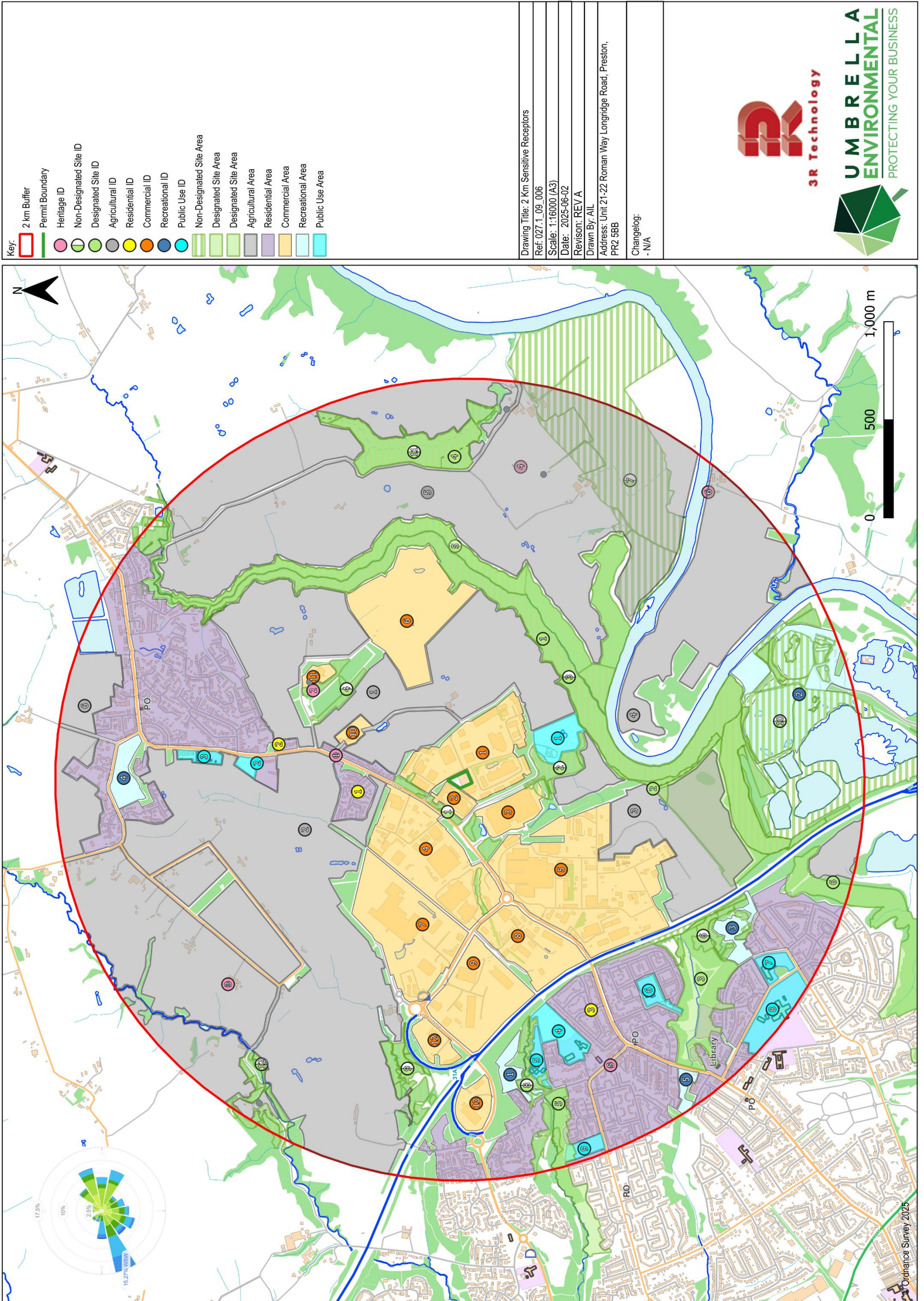
Drawing 1 Permit Boundary



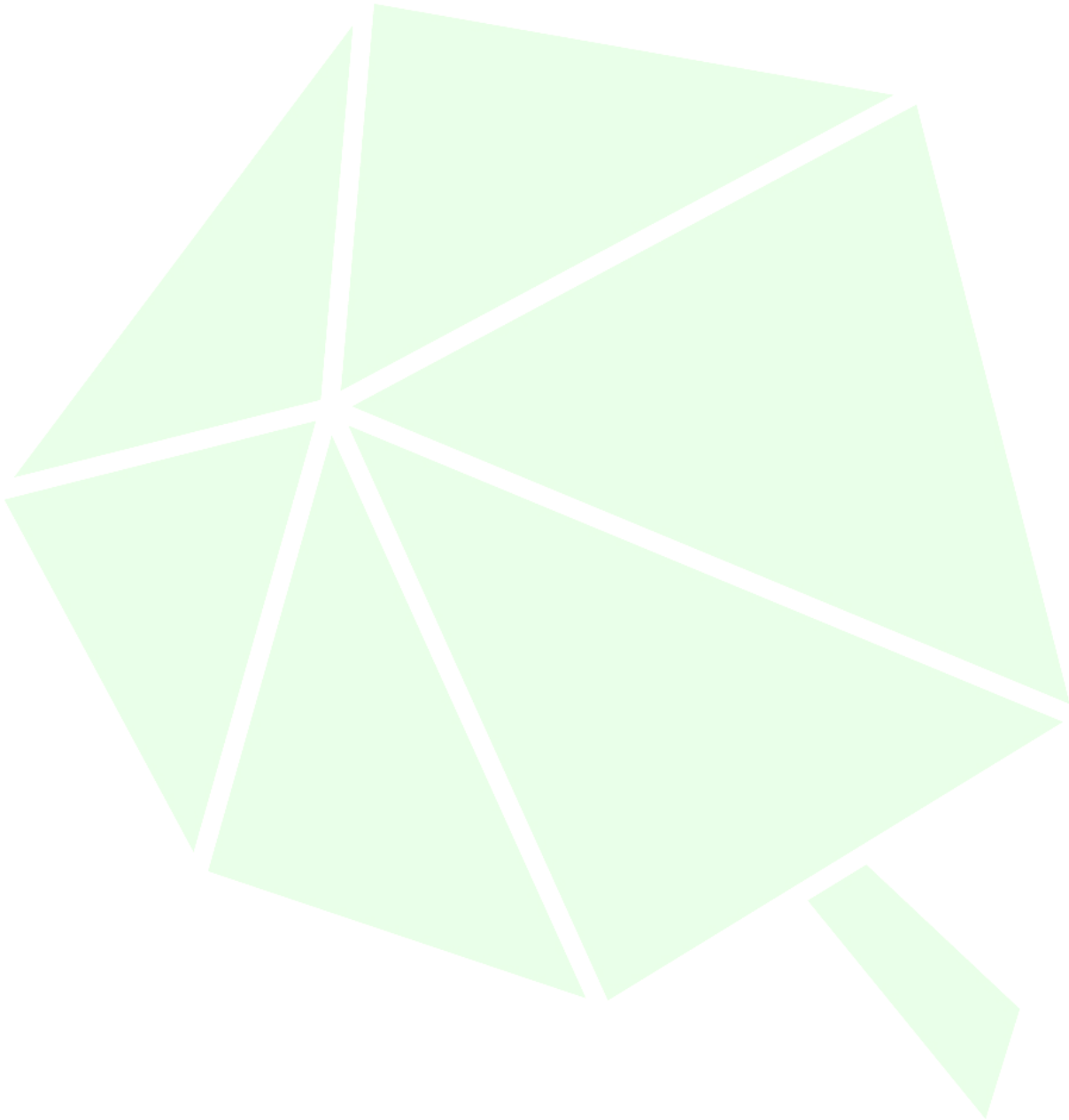
Drawing 2 Site Plan



Drawing 3 Sensitive Receptors



12 APPENDICES



Site Condition Report

Appendix 1 SCR at time of application

SITE CONDITION REPORT TEMPLATE

For full details, see H5 *SCR guide for applicants* v2.0 4 August 2008

COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION

DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7

AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.

V2.0 4 August 2008

Site Condition Report

1.0 SITE DETAILS	
Name of the applicant	3R Technology UK Limited
Activity address	Unit 21-22 Roman Way, Longridge Road, Preston, PR2 5BB
National grid reference	SD 58148 32763

Document reference and dates for Site Condition Report at permit application and surrender	Sub Surface: Phase 1 Desk Study with Walkover Survey – Report No. 6978 June 2020 (Appendix 12 of application). Phase 2 Contaminated Land Report – Report No.6978A July 2020 (Appendix 13 of application)
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Document references for site plans (including location and boundaries)	Drawing No:	Drawing Name:	Application Appendix No:
	01	Site Location Plan	3
	02	Environmental Permit Boundary Plan	4
	03	Plant Design	5
	04	Fire Protection & Hydrant Locations	6
	05	Site Infrastructure Plan	7
	06	Material Storage Plan	8
	07	Site Drainage Plan	9
	08	Receptor Plan	10

Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including: <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	See Environmental Risk Assessment (Appendix 16 of application)
Pollution history including: <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	See <ul style="list-style-type: none"> • Phase 1 Desk Study with Walkover Survey – Report No. 6978 June 2020 (Appendix 12 of application). • Phase 2 Contaminated Land Report – Report No.6978A July 2020 (Appendix 13 of application) • Environmental Risk Assessment (Appendix 16 of application)

V2.0 4 August 2008

Site Condition Report

Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	See <ul style="list-style-type: none"> Phase 1 Desk Study with Walkover Survey – Report No. 6978 June 2020 (Appendix 12 of application). Phase 2 Contaminated Land Report – Report No.6978A July 2020 (Appendix 13 of application) Environmental Risk Assessment (Appendix 16 of application)
Baseline soil and groundwater reference data	See <ul style="list-style-type: none"> Phase 1 Desk Study with Walkover Survey – Report No. 6978 June 2020 (Appendix 12 of application). Phase 2 Contaminated Land Report – Report No.6978A July 2020 (Appendix 13 of application)
Supporting information	<ul style="list-style-type: none"> Source information identifying environmental setting and pollution incidents Historical Ordnance Survey plans Site reconnaissance Historical investigation / assessment / remediation / verification reports Baseline soil and groundwater reference data

3.0 Permitted activities		
Permitted activities	Hazardous and non-hazardous WEEE sortation to separate POPs and non-POPs plastic.	
Non-permitted activities undertaken	None	
Document references for: <ul style="list-style-type: none"> plan showing activity layout; and environmental risk assessment. 	Document Name	Application Appendix No.
	Site infrastructure Plan (Drawing No.05)	7
	Material Storage Plan (Drawing No.06)	8
	Environmental Risk Assessment	16

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

V2.0 4 August 2008

4.0 Changes to the activity	
Have there been any changes to the activity boundary?	If yes, provide a plan showing the changes to the activity boundary.
Have there been any changes to the permitted activities?	If yes, provide a description of the changes to the permitted activities
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	If yes, list of them
Checklist of supporting information	<ul style="list-style-type: none"> • Plan showing any changes to the boundary (where relevant) • Description of the changes to the permitted activities (where relevant) • List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5.0 Measures taken to protect land	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
Checklist of supporting information	<ul style="list-style-type: none"> • Inspection records and summary of findings of inspections for all pollution prevention measures • Records of maintenance, repair and replacement of pollution prevention measures

6.0 Pollution incidents that may have had an impact on land, and their remediation	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.	
Checklist of supporting information	<ul style="list-style-type: none"> • Records of pollution incidents that may have impacted on land • Records of their investigation and remediation

7.0 Soil gas and water quality monitoring (where undertaken)	
<p>Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.</p>	
Checklist of supporting information	<ul style="list-style-type: none">• Description of soil gas and/or water monitoring undertaken• Monitoring results (including graphs)

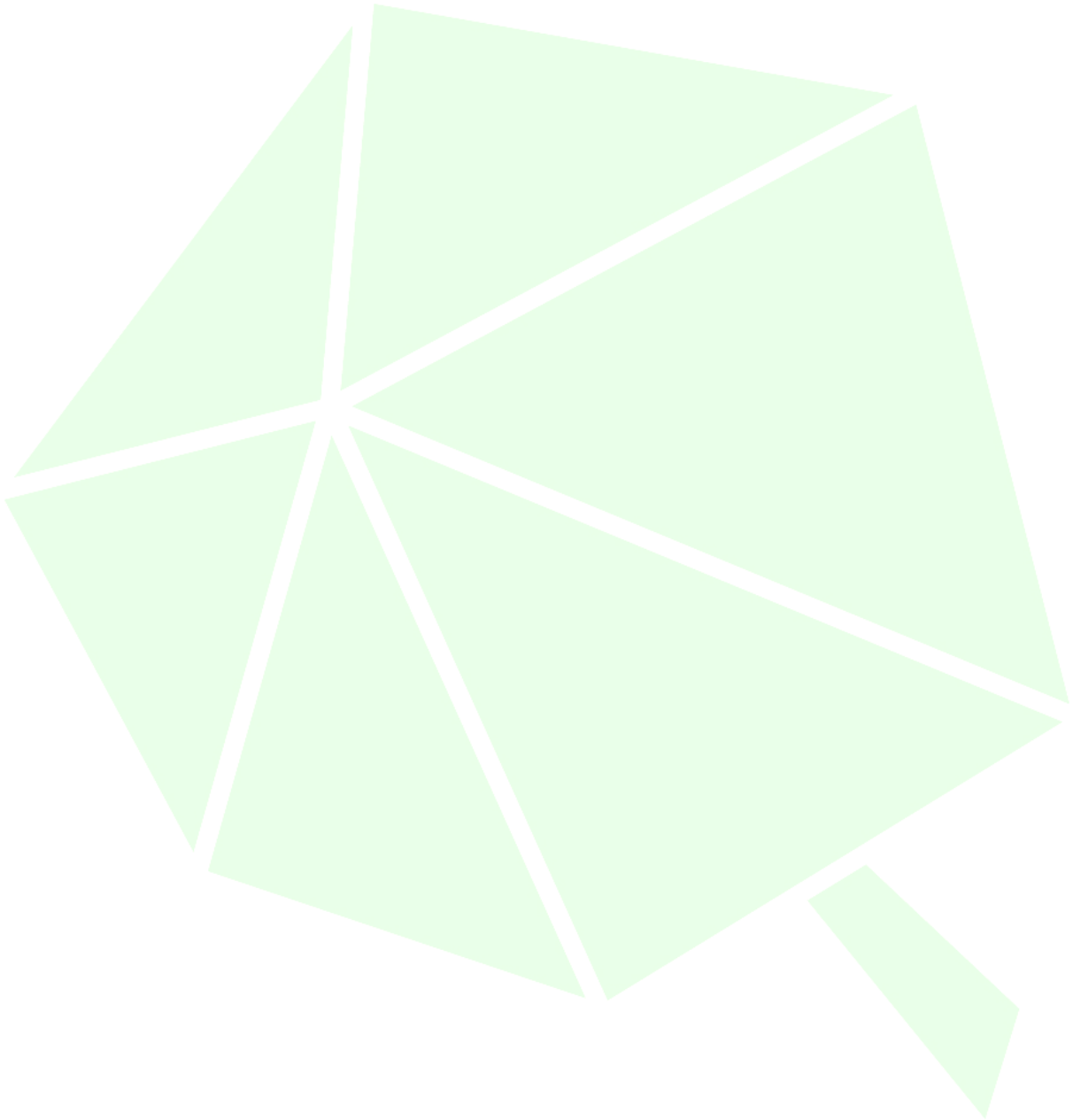
8.0 Decommissioning and removal of pollution risk	
Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.	
Checklist of supporting information	<ul style="list-style-type: none"> • Site closure plan • List of potential sources of pollution risk • Investigation and remediation reports (where relevant)

9.0 Reference data and remediation (where relevant)	
Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.	
If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.	
Checklist of supporting information	<ul style="list-style-type: none"> • Land and/or groundwater data collected at application (if collected) • Land and/or groundwater data collected at surrender (where needed) • Assessment of satisfactory state • Remediation and verification reports (where undertaken)

10.0 Statement of site condition	
Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:	
<ul style="list-style-type: none"> • the permitted activities have stopped • decommissioning is complete, and the pollution risk has been removed • the land is in a satisfactory condition. 	

Site Condition Report

Appendix 2 Phase 1 Baseline Report (Site Condition)





INVESTIGATE



REMEDiate



REGENERATE



**DESK STUDY WITH
WALKOVER SURVEY**

FOR
21 & 22 ROMAN WAY
INDUSTRIAL ESTATE,
PRESTON,
LANCASHIRE,
PR2 5 BB,

PREPARED FOR
3R TECHNOLOGY LIMITED

REPORT NO. 6978
JUNE 2020

SUB SURFACE NORTH WEST LIMITED
3 Peel Street
Preston
Lancashire
PR2 2QS

Tel: (01772) 561135 Fax: (01772) 204907
Email: preston@subsurface.co.uk
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Site Condition Report

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EXECUTIVE SUMMARY

1. INTRODUCTION

- 1.1 Site Location and Description
- 1.2 Proposed Development and Purpose of the Desk Study
- 1.3 Walkover Survey

2. DESK STUDY

- 2.1 Historical Appraisal
- 2.2 Geological Appraisal
- 2.3 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal
- 2.4 Environmental Appraisal
- 2.5 Conceptual Ground Model
- 2.6 General

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- Preliminary Risk Rating Guidance
- Photographs
- Enviro+Geo Insight Report
- Small Scale Survey Plans
- Large Scale Survey Plans
- Figures

Site Condition Report

EXECUTIVE SUMMARY

This executive summary is a brief summary only and should be read in conjunction with the full report.

Section	Subject	Summary
Site Details	Site Address	21 & 22 Roman Way Ind. Estate, Preston, Lancashire, PR2 5BB
	Grid Reference	358144E, 432788N
	Current Land Use	Warehouse. Part carpet storage, part plastic waste handling.
	Proposed Development	Proposed to install a plastic recycling plant in the existing building.
Site History	On Site	Fields until current warehouse built circa 1982. Pond in south east corner infilled around 1960.
	Beyond Site Boundary	Mainly fields until current industrial estate built in phases between 1961 and 2003
Geological and Mining Appraisal	Made Ground	Some likely to be present, depth unknown.
	Superficial Geology	Devensian Till comprising gravelly sandy silty clay of low permeability.
	Bedrock Geology	High permeability sandstone of the Sherwood Sandstone Group.
	Radon	No radon protection measures are required.
	Mining	No risks from coal or non-coal mining identified.
	Subsidence Hazards	No subsidence risks identified.
Environmental Appraisal	Landfill Sites	No active or recently closed landfill sites within 250m of the site boundary. However, there are records of a landfill site 30m north east from 1992 to 2001.
	Hydrogeology	Superficial deposits designated as a Secondary Undifferentiated Aquifer, bedrock designated as a Principal aquifer. Nearest water abstraction is 1.4km to south east. Site is in Type 3 SPZ.
	Hydrology	The nearest watercourse being a small brook some 149m to the north west.
	Flood Risk	The site is in a Flood Zone 1 with a low risk of flooding from rivers and sea. There is a 1 in 30 year, 0.1m-0.3m risk of surface water flooding on the site. Groundwater flood risk assessed as moderate.
	Industrial Land Uses	Within 250m of the site includes electricity sub stations, warehouses and depots dealing in various industrial products, food stuffs and construction services, transport, storage and delivery, engineering services, and a gas governor.
	Other Relevant Details	
Recommendations	Intrusive investigation required to establish baseline concentrations of potential contaminants in support of the Site Condition Report (SCR).	
Other Considerations (for Warranty Providers, Building Control, Structural Engineers, Developers, etc.)	It should be noted that the above recommendations are to support the Site Condition Report only. If this Phase I walkover survey and desk study are to be used in support of a future planning application for development then additional investigation may be required, in particular with regard to the potential risk from ground gases.	

6978 Roman Way Ind. Estate, Preston

Sub Surface North West Limited
3 Peel Street, Preston, Lancashire, PR2 2QS
Tel: 01772 561135 Fax: 01772 204907 Email: preston@subsurface.co.uk

**DESK STUDY WITH WALKOVER SURVEY FOR UNITS 21 & 22 ROMAN WAY
INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB**

CLIENT: 3R TECHNOLOGY UK LIMITED

ENGINEER: 360 ENVIRONMENTAL LIMITED

1. INTRODUCTION

This report has been prepared in accordance with an email, dated 15th May 2020 from the Client.

The brief was set out in our estimate, ref. E4120 dated 13th May 2020, and comprises a walkover survey and a desk study report including a historical, geological, mining and environmental appraisal together with a conceptual ground model.

1.1 Site Location and Description

The site is located on the Roman Way Industrial Estate to the North East of Preston, Lancashire as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 358144, 432788.

As shown on Figure 2, the irregular shaped site measures some 62m by 108m and is bounded to the East by Roman Way and to the North, West and South by industrial buildings.

1.2 Purpose of the Desk Study

This desk study has been prepared in support of a Site Condition Report (SCR) for the site and to facilitate the design of a baseline contamination survey, prior to installation of a plastic recycling plant on the site as depicted on Figure 3.

The purpose of the desk study is to obtain information regarding the sites historical, geological and environmental setting in order to produce a conceptual ground model, to assess the ground conditions, to undertake a preliminary assessment of contamination sources, pathways and receptors relating to potential hazards that exist or will potentially exist on the site and to assess the need for ground investigation.

1.3 Walkover Survey

The walkover survey was undertaken on 22nd May 2020. Surface features observed were recorded on a plan of the site together with the positions and directions of photographs taken. The resulting Walkover Survey Plan and site photographs are appended.

At the time of the walkover survey the site was occupied by a large portal framed warehouse and associated hardstanding. Concrete hardstanding was present to the north of the building and adjacent to the southern corner (outside the red line boundary).

6978 21 & 22 Roman Way Industrial Estate, Preston
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A Cadent gas box was present in the grassed area to the south east of the site. Inside the building, rolls of carpet were stored on a rack system in the western part, whilst in the east and central areas bundles of compressed plastic and pellets were stored, and in the north eastern corner there was a static machine that appeared to be a press for compressing plastic.

There was a roller door vehicular access into the main building in the north and a van was present within the western part of the building at the time of the survey. The northern external hardstanding was used for car parking and the storage of plastic bundles in the east of this area.

In the central southern area within the building there was a segregated office.

No olfactory contamination was noted during the walkover survey, although there was some discoloration of the concrete flooring in the north eastern part of the building.

2. DESK STUDY

2.1 Historical Appraisal

The past history of the site has been interpreted from the study of old Ordnance Survey plans supplied by Groundsure, as follows:

TABLE 1 SMALL SCALE SURVEYS

Date	Scale
1846-1849	1:10,560
1892	1:10,560
1892	1:10,560
1910	1:10,560
1929-1932	1:10,560
1938	1:10,560
1951	1:10,560
1965	1:10,560
1978	1:10,000
1992	1:10,000
2001	1:10,000
2010	1:10,000
2020	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Scale
1892	1:2,500
1912	1:2,500
1932	1:2,500
1938-1939	1:2,500
1958-1960	1:2,500
1961	1:2,500
1961	1:2,500
1979-1981	1:2,500
1980-1982	1:2,500
1985-1989	1:2,500
1993	1:2,500
1993-1995	1:2,500
1993-1995	1:2,500
2003	1:1,250

Copies of the above plans are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1849	The site is undeveloped and forms part of a field. A small pond is depicted at the southern end of the site and a small copse straddles the east/south east corner. A track is shown crossing the site from north to south.	Surrounding area comprises mainly fields. Several ponds are depicted within 250m, the nearest being 100m to the south, and a brook is depicted some 22m to the north, shown on later surveys to flow from east to west. A farm is depicted 110m to the north west.
1892	The track is no longer shown crossing the site.	No significant change.
1910-1912	No change.	The site of Watling Street ancient Roman Road is indicated roughly 100m to the South.
1929-1951	A new field boundary is shown crossing the site from west to east. By 1939 an enclosure is also shown around the pond in the south.	The Red Scar industrial works is shown under construction some 490m to the South West.
1960	The pond previously shown in the southern part of the site appears to have been infilled.	The farm previously shown to the north west is no longer present. A depot is now shown some 232m to the north, a school is depicted some 380m to the north and houses are now depicted fronting onto Longridge Road some 264m to the north.
1961 - 1965	No change.	The 1961 large scale mapping indicates that the current Roman Way Industrial Estate has been partially constructed (the estate is not depicted on the small scale mapping until the time of the 1991 survey. The existing buildings are depicted to the north of the site and Roman Way is present adjacent to the east. The building to the north west is identified as a Skill centre.
1978 - 1981	No change.	Depots and unspecified industrial buildings are now depicted 150m to the north west on the opposite side of Longridge Road.
1982-1993	The site has now been developed with the existing warehouse, car park and hardstanding.	The Roman Way Industrial Estate has been expanded and the existing buildings are now depicted to the south and north east. On the 1985 survey electricity substations area depicted 80m to the south west and 210m to the south.
1995	No change.	One of the industrial units 180m to the south east has been extended.
2001-Present.	No change.	There has been further expansion of the industrial estate and by 2003 the current buildings to the east are shown, including an electricity sub-station some 35m to the east. The ponds previously depicted to the east are no longer shown.

The historical survey indicates that the site comprised part of a field until it was developed with the current warehouse building. However, given the phased building of the surrounding industrial estate it is likely that the ground on site will have been disturbed during construction of the buildings to the north and west. If made ground is present there may be some chemical contamination present derived from building materials and processes including heavy metals, polycyclic aromatic hydrocarbons and total petroleum hydrocarbons and asbestos.

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There could also be some contamination present derived from past industrial activities on and adjacent to the site, although on the historical maps the specific uses of the buildings in close proximity to the site are not indicated.

There are a number of infilled ponds within the local area of the site including one within the south east corner of the site, infilled around 1960 which could present a low risk of ground gas ingress into the building on site.

2.2 Geological Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 14 to 17).

2.2.1 Artificial Ground (Made Ground)

Made Ground, described as Landscaped Ground (Undivided), is indicated to be present within the site, the depth of which is unknown.

2.2.2 Superficial Geology (Drift Deposits)

Drift deposits, described as Devensian Till comprising gravelly sandy silty clay of low permeability are indicated to be present within the site, the depth of which is unknown.

2.2.3 Bedrock Geology

Within the site the bedrock underlying the site is indicated to be high permeability sandstone of the Sherwood Sandstone Group.

2.2.4 Potential Hazards in Natural Ground

The risk from shrinking/ swelling clays, running sands, collapsible deposits, and landslides is very low, whilst the risk from compressible deposits/ strata, and dissolution of soluble rocks is negligible.

2.3 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 18 to 21).

2.3.1 Mining and Ground Workings

There are twelve records of historical surface ground workings within 250m of the site which appear to relate to two ponds, the nearest being 92m to the south east.

There are no records of historical underground workings within 1km of the site.

The British Geological Survey maintain records of mining of minerals other than coal and indicates that there is no potential for non-coal mining within 1km of the site.

The Coal Authority, and others, indicate that there is no potential for coal mining within 1km of the site.

According to the report the site is not in an area affected by significant non-coal mining, mining cavities, brine extraction, gypsum extraction, tin mining or clay mining.

2.3.2 Radon

The British Geological Survey and Public Health England have estimated the percentage of dwellings exceeding the "Radon Action Level" of 200 Becquerels/ m³ for the UK based on geological assessments and long term measurements of radon in more than 479,000 households.

The site is unlikely to be affected by radon gas as < 1% of surrounding properties are above the Radon Action Level. No radon protection measures are required.

2.3.3 Soil Chemistry

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, chromium, lead and nickel in the topsoil on site.

2.3.4 Railway Infrastructure

There are no active or inactive underground or overground railways and no railway tunnels within 250m of the site.

The site is not within 500m of Crossrail 1, Crossrail 2 or the High Speed 2 (HS2) rail project.

2.4 **Environmental Appraisal**

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 1 to 13).

2.4.1 Historical Industrial Land Use

Historical potentially contaminative industrial land uses are recorded by the Ordnance Survey within 250m of the site include unspecified depots and a pipeline. There are also three records of tanks within 250m of the site, the nearest being 241m to the west, and four electricity sub stations within 250m, the nearest being 80m to the south.

2.4.2 Landfill

According to the report there are no active or recently closed landfill sites within 250m of the site boundary.

2.4.3 Waste

Local Authority records and detailed Ordnance Surveys indicate five records of historical waste sites within 250 metres of the site, the nearest being a waste transfer station some 7m to the south west.

According to the Environment Agency there are five active or recently closed waste sites within 250m of the site, the nearest being a landfill site some 30m to the north east between 1992 and 2001.

The Environment Agency have sixteen records of activities involving the storage, treatment, use or disposal of wastes that are exempt from needing a permit (within specific limits and conditions) within 250m of the site boundary, the nearest relating to storage of waste on the site and storage of waste at a location some 70m to the north west.

2.4.4 Current Industrial Land Use

Current potentially contaminative industrial land uses recorded by the Ordnance Survey and Experian within 250m of the site include electricity sub stations, warehouses and depots dealing in various industrial products, food stuffs and construction services, transport, storage and delivery, engineering services, and a gas governor.

National Grid data indicates that there are currently no high voltage underground electricity transmission cables within 250m of the site boundary.

National Grid data indicates that there are currently no high pressure underground gas transmission pipelines within 250m of the site boundary.

2.4.5 Sites Determined as Contaminated Land

There are no sites determined as contaminated under Section 78R of the Environmental Protection Act (1990) within 250m of the site boundary.

2.4.6 Control of Major Accident Hazards (COMAH)

Records of Control of Major Accident Hazards (COMAH), including Notification of Installations Handling Hazardous Substances (NIHHS) and other historical data, indicate that there are no dangerous or hazardous sites within 250m of the site boundary.

2.4.7 Regulated Explosives Sites

Up to April 2015 there were no sites within 250m of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

2.4.8 Hazardous Substance Storage and Usage

There are no Local Authority records of consents granted for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the 2015 Planning (Hazardous Substances) Regulations within 250m of the site boundary.

2.4.9 Historical Licenced Industrial Activities (IPC)

There are no historical Integrated Pollution Control (IPC) records of substances released to the air, land and water according to the Environment Agency within 250m of the site boundary.

2.4.10 Licensed Industrial Activities (Part 1(A))

The Environment Agency indicate that there are no records of Part 1(A) installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for release to the environment within 250m of the site boundary.

2.4.11 Part A(2) and Part B Authorisations

Local Authority records indicate there are eight Part A(2) and Part B installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for the release of substances to the environment within 250m of the site boundary, the nearest relating to coating processes some 38m to the south west.

2.4.12 Radioactive Substance Authorisations

The Environment Agency indicate that there are no records of storage, use, accumulation and disposal of radioactive substances regulated under the 1993 Radioactive Substances Act within 250m of the site boundary.

2.4.13 Licensed Discharges to Controlled Waters

According to Environment Agency records there have been no discharges of treated or untreated effluent to controlled water under the 1991 Water Resources Act within 250m of the site boundary.

2.4.14 Pollutant Release to Surface Waters (Red List)

The Environment Agency records indicate that there have been no discharges of specified substances under the 1991 Environmental Protection (Prescribed Processes and Substances) Regulations within 250m of the site boundary.

2.4.15 Pollutant Release to Public Sewers

According to Environment Agency records there have been no discharges of special category effluents to public sewers within 250m of the site boundary.

2.4.16 List I and List II Dangerous Substances

The Environment Agency records indicate that there have been no discharges of substances on List I and List II of the European Directive E2006/11/EC respectively, regulated under the 2015 Environmental Damage (Prevention and Remediation) Regulations, within 250m of the site boundary.

2.4.17 Pollution Incidents

According to the Environment Agency there thirty two records of substantiated pollution incidents within 250m of the site boundary, the nearest being a release of atmospheric pollutants some 126m to the south in 2006, which reportedly had no impact on land or water, and a significant impact on air. In our opinion none of the pollution incidents listed are likely to have impacted on the site.

2.4.18 Pollution Inventory Substances

The Environment Agency indicate that there have no reports on annual emissions of certain regulated substances to air, controlled waters and land within 250m of the site boundary.

2.4.19 Pollution Inventory Waste Transfers

According to the Environment Agency there have been no reports on annual transfers and recovery/ disposal of controlled wastes within 250m of the site boundary.

2.4.20 Pollution Inventory Radioactive Waste

The Environment Agency indicate that there have been no reports on annual releases of radioactive substances within 250m of the site boundary.

2.4.21 Hydrogeology

The following designation of aquifers is in accordance with the Environment Agency's April 2010 Groundwater Protection Policy.

The superficial deposits beneath the site have been designated as a Secondary Undifferentiated Aquifer probably comprising interbedded high and low permeability layers.

The bedrock beneath the site has been designated as a Principal aquifer comprising strata of high intergranular and/ or fracture permeability, usually providing a high level of water storage and may support water supply and/ or river base flow on a strategic scale.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as "Low", an area able to provide protection from pollution.

British Geological Survey and Environment Agency data indicates that the site is not within a 1km grid where solution features are present that will enable rapid movement of a pollutant to groundwater.

Environment Agency data indicates that the site is not in an area where additional local information indicates that groundwater is vulnerable to pollution.

According to data provided by the Environment Agency there are ten records of groundwater abstraction licences within 2km of the site. The records appear to relate to three abstraction points, the nearest being some 1472m to the south.

There is one surface water abstraction licence within 2km of the site. The record relates to an abstraction from the River Ribble some 1442m to the south east.

There is on potable water abstraction licence within 2km of the site. The record relates to a groundwater abstraction some 1998m to the south.

The site is located within a Type 3 Source Protection Zone set up to protect a potable water abstraction point.

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2.4.22 Hydrology

The Ordnance Survey indicate that there are two watercourses (river, stream or canal) within 250m of the site boundary, the nearest watercourse being a small brook some 149m to the north west.

There are also two ponds within 250m of the site, the nearest being some 125m to the south.

The Water Framework Directive (WFD) indicates that the site is within the catchment of the Savick Brook which lies some 1.8km to the north west.

2.4.23 Flooding

The Risk of Flooding from Rivers and Sea (RoFRaS) database holds no records of flood risk data within 250m of the site and is considered to be a low risk.

In the period since records began in 1946, there are no records of historical floods within 250m of the site boundary.

There are no flood defences, areas benefitting from flood defences, or flood storage areas present within 250m of the site boundary.

The site boundary is not within 50m of a Flood Zone 2 or Flood Zone 3.

According to Ambient Risk Analytics surface water "FloodMap" there is a 1 in 30 year, 0.1m-0.3m risk of surface water flooding on the site and within 50m of the site boundary.

Groundwater flooding is caused when the water table rises in areas where this is usually at shallow depth. Ambient Risk Analytics indicate that there is a moderate risk of groundwater flooding on the site and within 50m of the site boundary.

2.4.24 Environmental Designations

Natural England indicate that there are environmental sensitive sites within 2k of the site including one Site of Special Scientific Interest (SSSI) 620m to the south east, five Local Nature Reserves (LNR) the nearest being 770m to the south, five designated Ancient Woodlands the nearest being 623m to the south east, three Marine Conservation Zones the nearest being 1394m to the south east, and three records of Green Belt Land the nearest being 621m to the south east.

In addition to the above the site is located within a SSSI Impact Risk Zone.

2.4.25 Visual and Cultural Designations

Historic England indicate that within 250m of the site boundary there are no World Heritage Sites, Areas of Outstanding Natural Beauty, National Parks, Listed Buildings, Conservation Areas, Scheduled Ancient Monuments or Registered Parks and Gardens.

2.4.26 Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site is Grade 3 'good to moderate'.

Natural England and Natural Resources Wales indicate that there is no open access land within 250m of the site boundary.

The Forestry Commission indicate that there are no tree felling licences within 250m of the site boundary.

Natural England indicate that there are no environmental stewardship schemes within 250m of the site boundary.

Natural England indicate that there are no countryside stewardship schemes within 250m of the site boundary.

2.4.27 Habitat Designations

Natural England indicate that there are six records of priority habitats, the nearest being deciduous woodland some 113m to the north west. There are no habitat networks, open mosaic habitats, or limestone pavement orders within 250m of the site boundary.

2.5 Conceptual Ground Model

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

2.5.1 Sources

Potential sources of contamination identified in the desk study are:

- General contaminants associated with made ground (if present) derived from past construction on and adjacent to the site including heavy metals, polycyclic aromatic hydrocarbons and total petroleum hydrocarbons and asbestos. Given the phased construction of the industrial estate it is likely that the area of the site would have been utilised for the storage of materials and/or equipment.
- Contamination derived from past industrial activities on and adjacent to the site. Whilst on the historical maps the specific uses of the buildings in close proximity to the site are not indicated, contamination could include heavy metals, polycyclic aromatic hydrocarbons, total petroleum hydrocarbons, volatile and semi-volatile organic compounds (VOCs and SVOCs), polycyclic aromatic hydrocarbons (PCBs), and asbestos.
- Migrating ground gases from the infilled ponds on and within 250m of the site.

2.5.2 Pathways

Potential pathways from source and receptor for the proposed development are:

- Direct skin contact with and/ or ingestion of contaminated soils and/ or water.
- Inhalation of dust, vapours and/ or gases.
- Dissolved contaminants via infiltrating surface water/ migrating groundwater.
- Dissolved ground gases via infiltrating surface water/ migrating groundwater.
- Volatile contaminants via permeable soils and rocks.
- Ground gases via permeable soils and rocks.

2.5.3 Receptors

Potential receptors for the proposed development are:

- Site operatives during demolition, earthworks and/ or construction.
- The workers who will be the end users of the development.
- Vegetation growing on the periphery of the hard standing.
- Controlled waters including the nearby brook, pond and underlying Primary and Undifferentiated Secondary Aquifers.

2.5.4 Conclusions

An appraisal of the sources, pathways and receptors has been considered and we have produced a conceptual ground model based upon the available information, as follows:

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating	
Contaminants in made ground derived from construction processes and materials during construction of existing warehouse on site and adjacent industrial properties.	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH) Asbestos	Ingestion of soil	Site Operatives	Low	
		Ingestion of dust	End Users		
		Dermal contact			
		Inhalation of dust			
		Inhalation of vapours			
		Uptake via contaminated groundwater	Vegetation	Low	
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Very Low	
		Direct contact	Structures and Services	Low	
Contaminants in derived from past and current industrial activities on and adjacent to the site.	As above plus: Volatile organic compounds (VOCs) Semi-volatile organic compounds (SVOCs) Polychlorinated biphenyls (PCBs)	Ingestion of soil	Site Operatives	Moderate	
		Ingestion of dust	End Users		
		Dermal contact			
		Inhalation of dust			
				Inhalation of vapours	
				Uptake via contaminated groundwater	Vegetation
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low	
		Direct contact	Structures and Services	Moderate	
Ground gas migration from the nearby infilled ponds	Methane Carbon Dioxide	Inhalation of gas	Site Operatives	Low	
		Ignition of gas	End Users		

The conceptual ground model indicates that chemical contamination may be present in the shallow soil and groundwater beneath the site. In order to support the site condition report we would therefore recommend some intrusive investigation is undertaken order to establish baseline concentrations of the compounds that may be present.

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The ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis for the compounds listed in Table 4. In addition, it would be prudent to test for contaminants that could be produced by the proposed new processes on site. For this site we would recommend testing for the following potentially harmful substances associated with plastics:

Phthalates
Polyvinyl chloride
Polyacrylonitriles (PAN)
Tributyl tin

If any of the above compounds are identified at significant concentrations, then we would also recommend additional testing for the following compounds:

Polyurethanes (PUR)
Polybrominated diphenyl ethers (PBDEs)
Bisphenol A (BPA)

It should be noted that the above recommendations are to support the Site Condition Report only. If this Phase I walkover survey and desk study are to be used in support of a future planning application for development then additional investigation may be required, in particular with regard to the potential risk from ground gases.

2.6 General

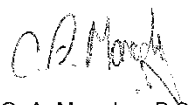
No consideration has been given to flora and fauna as this was outside our brief.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Miss Anna Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 6978
JUNE 2020



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Senior Geo-environmental Engineer
For and on behalf of
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C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
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PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table taken from CIRIA C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' has been used when developing the Conceptual Ground Model and the preliminary risk ratings. The method requires an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring to formulate a preliminary risk rating (Table A).







Table A DESCRIPTION OF RISK AND LIKELY ACTION REQUIRED

Preliminary Risk Rating	Action Required
Very High Risk	<p>Extensive Ground Investigation Required.</p> <p>There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.</p>
High Risk	<p>Extensive Ground Investigation Required.</p> <p>Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.</p>
Moderate	<p>Ground Investigation Required.</p> <p>It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long-term.</p>
Low Risk	<p>Nominal Ground Investigation Required.</p> <p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p>
Very Low Risk	<p>No Ground Investigation Required.*</p> <p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p>
Negligible Risk	<p>No Ground Investigation Required.*</p> <p>There is a very low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p>




* No further action is required unless unforeseen contaminated ground conditions are encountered.

PHOTOGRAPHS

Site Condition Report

SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2DS. Tel: 01772 561135 Fax: 01772 204507	Photographs	
	Site: 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Job Number: SE1554
Client: 3R TECHNOLOGY UK LIMITED	Sheet: 1/5	
Engineer: 360 ENVIRONMENTAL LIMITED	Survey Date: 22/05/20	
WALKOVER SURVEY PHOTOGRAPHS		
1		
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Site Condition Report

SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2DS. Tel: 01772 561135 Fax: 01772 204507	Photographs	
	Site: 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB Client: 3R TECHNOLOGY UK LIMITED Engineer: 360 ENVIRONMENTAL LIMITED	Job Number: SE1554 Sheet: 2/5 Survey Date: 22/05/20
WALKOVER SURVEY PHOTOGRAPHS		
7		8
9		10
11		12



Site Condition Report

 SUB SURFACE <small>SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS</small> <small>3 Peel Street, Preston, Lancashire, PR2 2DS. Tel: 01772 561135 Fax: 01772 204507</small>		Photographs
Site:	21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Job Number: SE1554
Client:	3R TECHNOLOGY UK LIMITED	Sheet: 3/5
Engineer:	360 ENVIRONMENTAL LIMITED	Survey Date: 22/05/20
WALKOVER SURVEY PHOTOGRAPHS		
<p>13</p> 	<p>14</p> 	
<p>15</p> 	<p>16</p> 	
<p>17</p> 	<p>18</p> 	

Site Condition Report

SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2DS. Tel: 01772 561135 Fax: 01772 204507	Photographs	
	Site: 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Job Number: SE1554
Client: 3R TECHNOLOGY UK LIMITED	Sheet: 4/5	
Engineer: 360 ENVIRONMENTAL LIMITED	Survey Date: 22/05/20	
WALKOVER SURVEY PHOTOGRAPHS		
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Site Condition Report

SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: 01772 561135 Fax: 01772 204507	Photographs	
	Site: 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB Client: 3R TECHNOLOGY UK LIMITED Engineer: 360 ENVIRONMENTAL LIMITED	Job Number: SE1554 Sheet: 5/5 Survey Date: 22/05/20
WALKOVER SURVEY PHOTOGRAPHS		
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27		
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29		

ENVIRO & GEO INSIGHT REPORT



Units 21 & 22 Roman Way, Preston, PR2 5BB

Order Details	Site Details
Date: 15/05/2020	Location: 358144 432787
Your ref: 4199	Area: 0.58 ha
Our Ref: CMAP5-CM-876518-4199-150520EDRGEO	Authority: Preston City Council
Client: CENTREMAP5	



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	1	1	4	13	-
15	1.2	Historical tanks	0	0	3	8	-
16	1.3	Historical energy features	0	0	4	4	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	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
18	2.1	Historical industrial land uses	1	1	6	19	-
20	2.2	Historical tanks	0	0	3	16	-
21	2.3	Historical energy features	0	0	16	8	-
22	2.4	Historical petrol stations	0	0	0	0	-
22	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
24	3.5	Historical waste sites	0	2	1	2	-
25	3.6	Licensed waste sites	0	1	4	17	-
32	3.7	Waste exemptions	3	0	13	32	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
37	4.1	Recent industrial land uses	0	1	32	-	-
40	4.2	Current or recent petrol stations	0	0	0	0	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
40	4.5	Sites determined as Contaminated Land	0	0	0	0	-



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40	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
41	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	1	6	-
42	4.12	Radioactive Substance Authorisations	0	0	0	0	-
43	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	List 1 Dangerous Substances	0	0	0	0	-
43	4.17	List 2 Dangerous Substances	0	0	0	0	-
44	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	9	23	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
48	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
49	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
50	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
51	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
52	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
52	5.5	Groundwater vulnerability- local information	None (within 0m)				
53	5.6	<u>Groundwater abstractions</u>	0	0	0	0	10
56	5.7	<u>Surface water abstractions</u>	0	0	0	0	1
57	5.8	<u>Potable abstractions</u>	0	0	0	0	1
57	5.9	<u>Source Protection Zones</u>	1	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
58	6.1	<u>Water Network (OS MasterMap)</u>	0	0	2	-	-



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59	6.2	<u>Surface water features</u>	0	0	3	-	-
59	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
59	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
60	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
61	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
61	7.2	Historical Flood Events	0	0	0	-	-
61	7.3	Flood Defences	0	0	0	-	-
61	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
62	7.5	Flood Storage Areas	0	0	0	-	-
63	7.6	Flood Zone 2	None (within 50m)				
63	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
64	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
66	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
67	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
68	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
68	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
68	10.4	Special Protection Areas (SPA)	0	0	0	0	0
68	10.5	National Nature Reserves (NNR)	0	0	0	0	0
69	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	5
69	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	5
70	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
70	10.10	<u>Marine Conservation Zones</u>	0	0	0	0	3
70	10.11	<u>Green Belt</u>	0	0	0	0	3
71	10.12	Proposed Ramsar sites	0	0	0	0	0



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71	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
73	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
74	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
76	11.1	World Heritage Sites	0	0	0	-	-
76	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
76	11.3	National Parks	0	0	0	-	-
76	11.4	Listed Buildings	0	0	0	-	-
77	11.5	Conservation Areas	0	0	0	-	-
77	11.6	Scheduled Ancient Monuments	0	0	0	-	-
77	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
78	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
79	12.2	Open Access Land	0	0	0	-	-
79	12.3	Tree Felling Licences	0	0	0	-	-
79	12.4	Environmental Stewardship Schemes	0	0	0	-	-
79	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
80	13.1	<u>Priority Habitat Inventory</u>	0	0	6	-	-
81	13.2	Habitat Networks	0	0	0	-	-
81	13.3	Open Mosaic Habitat	0	0	0	-	-
81	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
82	14.1	<u>10k Availability</u>	Identified (within 500m)				
83	14.2	<u>Artificial and made ground (10k)</u>	1	0	1	1	-
84	14.3	<u>Superficial geology (10k)</u>	1	0	0	1	-



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85	14.4	Landslip (10k)	0	0	0	0	-
86	14.5	<u>Bedrock geology (10k)</u>	1	0	0	0	-
87	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	0	1	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
88	15.1	<u>50k Availability</u>	Identified (within 500m)				
89	15.2	Artificial and made ground (50k)	0	0	0	0	-
89	15.3	Artificial ground permeability (50k)	0	0	-	-	-
90	15.4	<u>Superficial geology (50k)</u>	2	0	0	1	-
91	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
91	15.6	Landslip (50k)	0	0	0	0	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92	15.8	<u>Bedrock geology (50k)</u>	2	0	0	0	-
93	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
93	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
94	16.1	<u>BGS Boreholes</u>	4	9	78	-	-
Page	Section	Natural ground subsidence					
99	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
100	17.2	<u>Running sands</u>	Very low (within 50m)				
101	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
102	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
103	17.5	<u>Landslides</u>	Very low (within 50m)				
104	17.6	<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
106	18.1	Natural cavities	0	0	0	0	-
107	18.2	BritPits	0	0	0	0	-
107	18.3	<u>Surface ground workings</u>	0	0	12	-	-
108	18.4	Underground workings	0	0	0	0	0
108	18.5	Historical Mineral Planning Areas	0	0	0	0	-



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108	18.6	Non-coal mining	0	0	0	0	0
108	18.7	Mining cavities	0	0	0	0	0
108	18.8	JPB mining areas	None (within 0m)				
109	18.9	Coal mining	None (within 0m)				
109	18.10	Brine areas	None (within 0m)				
109	18.11	Gypsum areas	None (within 0m)				
109	18.12	Tin mining	None (within 0m)				
109	18.13	Clay mining	None (within 0m)				

Page	Section	Radon					
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110 **19.1** **Radon** Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
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111	20.1	BGS Estimated Background Soil Chemistry	2	0	-	-	-
111	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
111	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
------	---------	-------------------------------------	---------	-------	---------	----------	-----------

112	21.1	Underground railways (London)	0	0	0	-	-
112	21.2	Underground railways (Non-London)	0	0	0	-	-
112	21.3	Railway tunnels	0	0	0	-	-
112	21.4	Historical railway and tunnel features	0	0	0	-	-
112	21.5	Royal Mail tunnels	0	0	0	-	-
113	21.6	Historical railways	0	0	0	-	-
113	21.7	Railways	0	0	0	-	-
113	21.8	Crossrail 1	0	0	0	0	-
113	21.9	Crossrail 2	0	0	0	0	-
113	21.10	HS2	0	0	0	0	-



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Date: 15 May 2020



Recent aerial photograph



Capture Date: 03/04/2017

Site Area: 0.58ha



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Recent site history - 2015 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2020. All Rights Reserved.

Capture Date: 22/04/2015

Site Area: 0.58ha

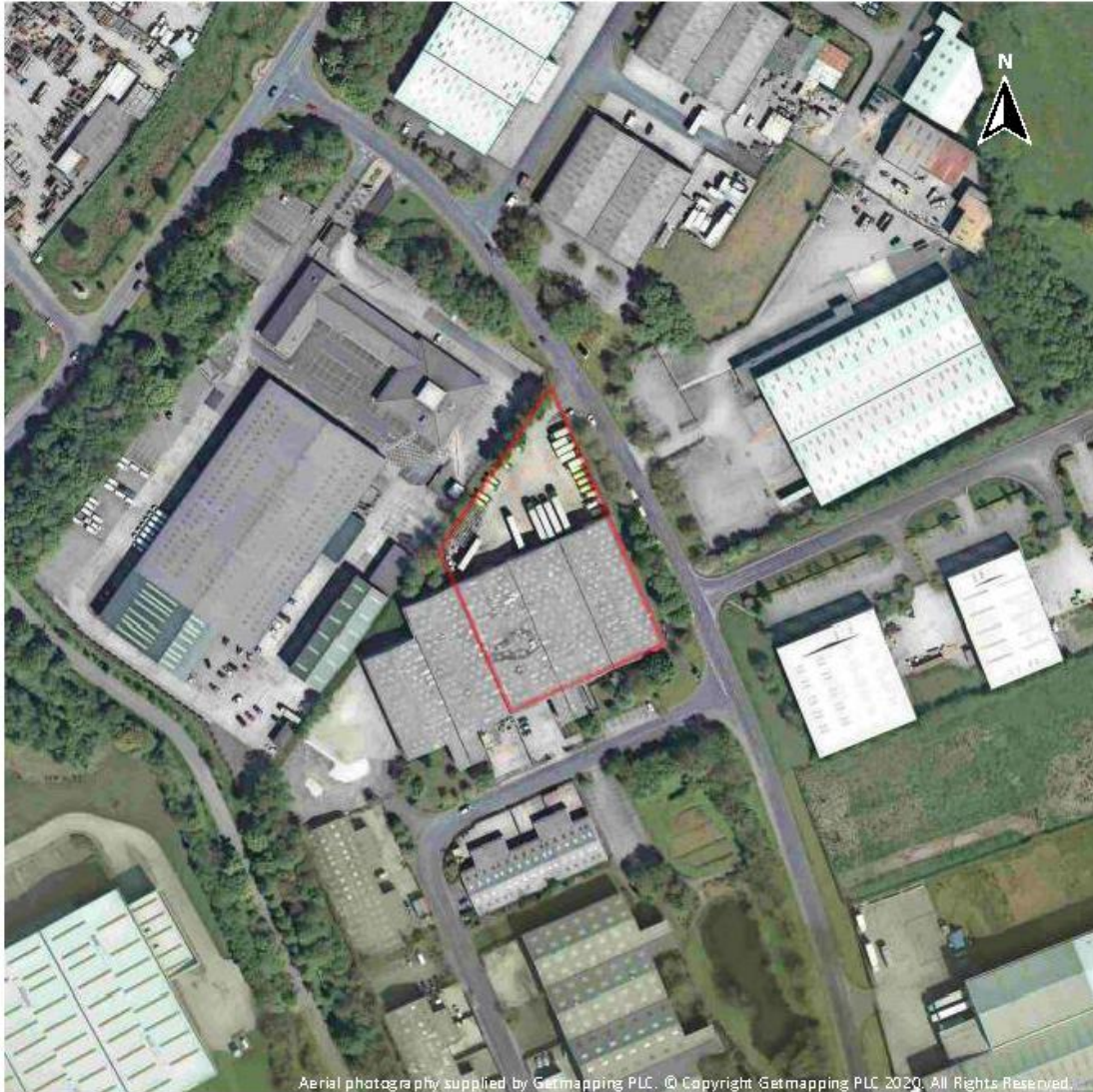


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Recent site history - 2013 aerial photograph



Capture Date: 25/05/2013

Site Area: 0.58ha



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Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 0.58ha



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Date: 15 May 2020



Recent site history - 2001 aerial photograph



Capture Date: 07/05/2001

Site Area: 0.58ha



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OS MasterMap site plan



Site Area: 0.58ha

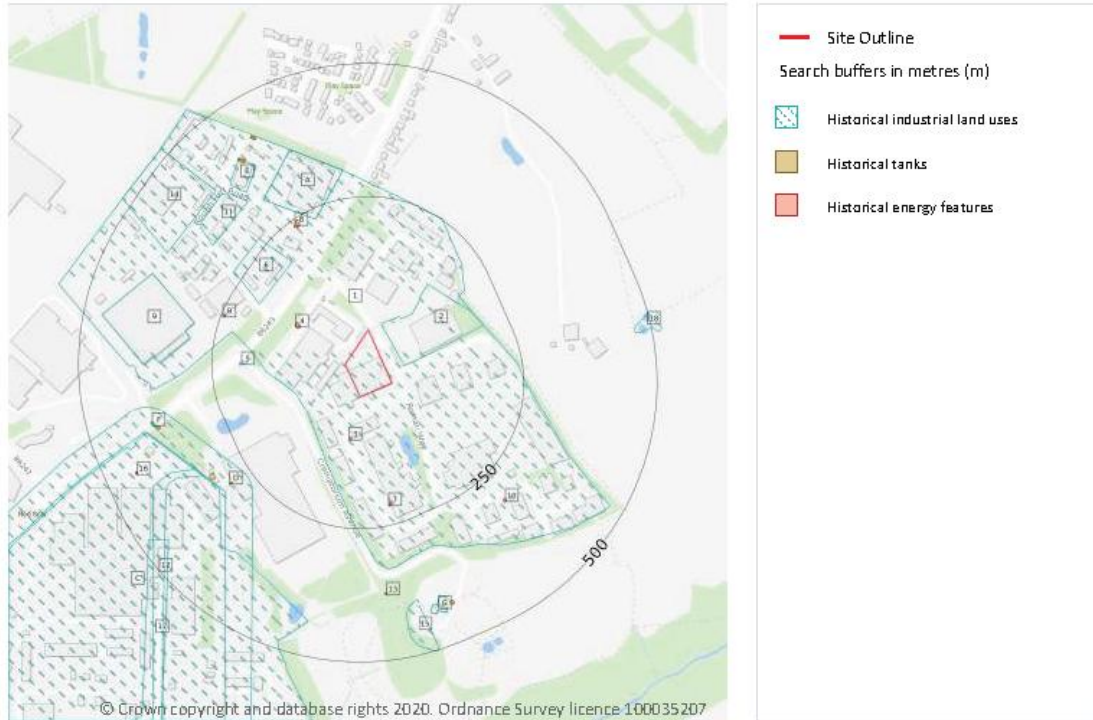


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1 Past land use



1.1 Historical industrial land uses

Records within 500m

19

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	Industrial Estate	1992	652288



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Site Condition Report



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Your ref: 4199
Grid ref: 358144 432787

ID	Location	Land use	Dates present	Group ID
2	26m NE	Unspecified Depots	1992	681749
5	184m W	Pipe	1846	655509
6	191m NW	Unspecified Depots	1978 - 1992	776123
A	230m NW	Unspecified Depot	1965	668750
A	230m NW	Unspecified Depots	1978 - 1992	749586
C	260m SW	Industrial Estate	1992	652290
9	294m W	Unspecified Depot	1978 - 1992	755624
C	310m SW	Unspecified Works	1965 - 1978	762865
C	316m SW	Unspecified Works	1951	720252
11	327m NW	Unspecified Depots	1978 - 1992	708274
12	329m SW	Railway Sidings	1965 - 1978	764036
E	345m NW	Unspecified Depots	1978 - 1992	780053
F	371m W	Pipe	1846	655506
14	386m NW	Unspecified Depots	1978 - 1992	776317
15	398m S	Sand Pit	1846	643734
G	406m S	Crematorium	1992	671540
17	450m SW	Railway Sidings	1951	791206
18	468m E	Marl Pits	1846	665914

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 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**



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ID	Location	Land use	Dates present	Group ID
B	241m W	Unspecified Tank	1973	89676
B	242m W	Unspecified Tank	1996	88663
B	244m W	Unspecified Tank	1985	94977
D	290m SW	Unspecified Tank	1996	82109
D	311m SW	Unspecified Tank	1996	82110
E	390m NW	Tanks	1979 - 1998	103464
E	391m NW	Tanks	1989	92458
E	415m NW	Unspecified Tank	1989	97138
E	415m NW	Unspecified Tank	1979 - 1998	99285
G	422m SE	Unspecified Tank	1961 - 1999	97952
G	422m SE	Unspecified Tank	1985	94619

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

8

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
3	80m S	Electricity Substation	1985 - 1999	57811
4	109m NW	Electricity Substation	1961 - 1999	56695
7	208m S	Electricity Substation	1985 - 1999	54930
8	233m NW	Electricity Substation	1979 - 1996	53960
10	306m SE	Electricity Substation	1985 - 1999	51477
F	367m W	Electricity Substation	1996	44880
13	373m S	Electricity Substation	1985	44879





ID	Location	Land use	Dates present	Group ID
16	439m SW	Electricity Substation	1985 - 1996	58191

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	0
----------------------------	----------

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

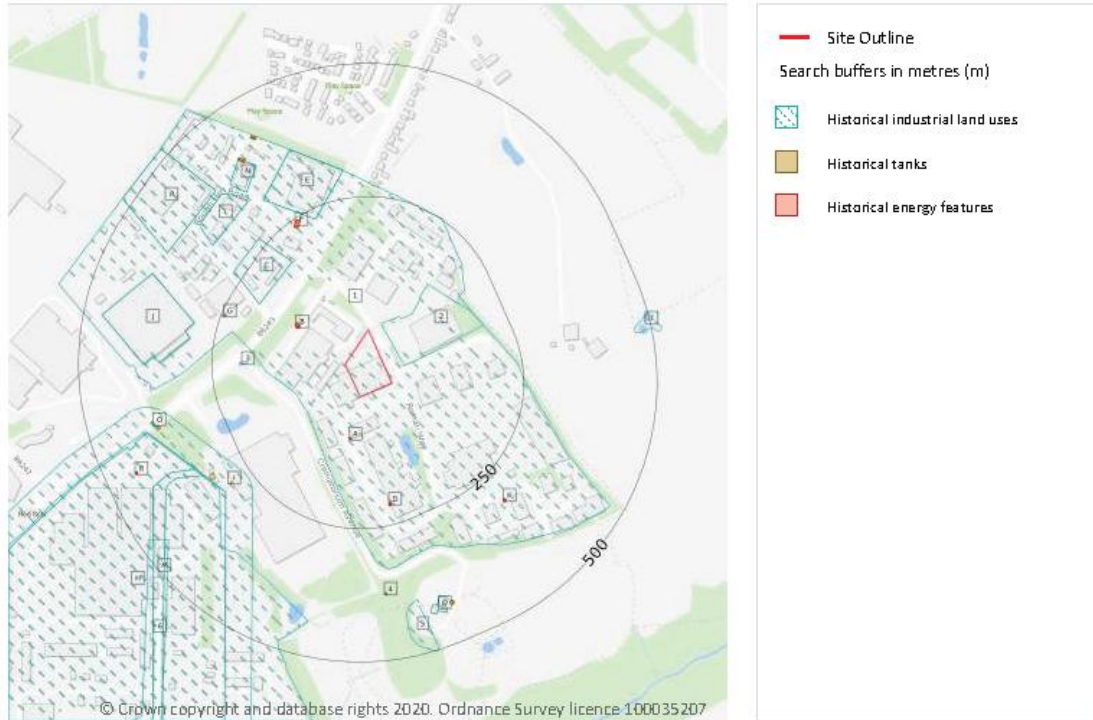
Records within 500m	0
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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

27

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 18

ID	Location	Land Use	Date	Group ID
1	On site	Industrial Estate	1992	652288
2	26m NE	Unspecified Depots	1992	681749
3	184m W	Pipe	1846	655509



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Your ref: 4199
Grid ref: 358144 432787

ID	Location	Land Use	Date	Group ID
C	191m NW	Unspecified Depots	1978	776123
C	191m NW	Unspecified Depots	1992	776123
E	230m NW	Unspecified Depot	1965	668750
E	230m NW	Unspecified Depots	1978	749586
E	230m NW	Unspecified Depots	1992	749586
H	260m SW	Industrial Estate	1992	652290
J	294m W	Unspecified Depot	1978	755624
J	294m W	Unspecified Depot	1992	755624
H	310m SW	Unspecified Works	1965	762865
H	310m SW	Unspecified Works	1978	762865
H	316m SW	Unspecified Works	1951	720252
L	327m NW	Unspecified Depots	1978	708274
L	327m NW	Unspecified Depots	1992	708274
M	329m SW	Railway Sidings	1965	764036
M	329m SW	Railway Sidings	1978	764036
N	345m NW	Unspecified Depots	1978	780053
N	345m NW	Unspecified Depots	1992	780053
O	371m W	Pipe	1846	655506
P	386m NW	Unspecified Depots	1978	776317
P	386m NW	Unspecified Depots	1992	776317
5	398m S	Sand Pit	1846	643734
Q	406m S	Crematorium	1992	671540
6	450m SW	Railway Sidings	1951	791206
7	468m E	Marl Pits	1846	665914

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2.2 Historical tanks

Records within 500m	19
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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 18**

ID	Location	Land Use	Date	Group ID
G	241m W	Unspecified Tank	1973	89676
G	242m W	Unspecified Tank	1996	88663
G	244m W	Unspecified Tank	1985	94977
I	290m SW	Unspecified Tank	1996	82109
I	311m SW	Unspecified Tank	1996	82110
N	390m NW	Tanks	1979	103464
N	391m NW	Tanks	1989	92458
N	392m NW	Tanks	1997	103464
N	392m NW	Tanks	1998	103464
N	415m NW	Unspecified Tank	1989	97138
N	415m NW	Unspecified Tank	1979	99285
N	417m NW	Unspecified Tank	1997	99285
N	417m NW	Unspecified Tank	1998	99285
Q	422m SE	Unspecified Tank	1995	97952
Q	422m SE	Unspecified Tank	1996	97952
Q	422m SE	Unspecified Tank	1999	97952
Q	422m SE	Unspecified Tank	1985	94619
Q	423m SE	Unspecified Tank	1961	97952
Q	423m SE	Unspecified Tank	1961	97952

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

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

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	80m S	Electricity Substation	1985	57811
A	81m S	Electricity Substation	1995	57811
A	81m S	Electricity Substation	1996	57811
A	81m S	Electricity Substation	1999	57811
B	109m NW	Electricity Substation	1995	56695
B	109m NW	Electricity Substation	1996	56695
B	109m NW	Electricity Substation	1999	56695
B	111m NW	Electricity Substation	1961	56695
B	111m NW	Electricity Substation	1961	56695
D	208m S	Electricity Substation	1985	54930
D	210m S	Electricity Substation	1995	54930
D	210m S	Electricity Substation	1996	54930
D	210m S	Electricity Substation	1999	54930
F	233m NW	Electricity Substation	1996	53960
F	233m NW	Electricity Substation	1993	53960
F	233m NW	Electricity Substation	1979	53960
K	306m SE	Electricity Substation	1985	51477
K	307m SE	Electricity Substation	1995	51477
K	307m SE	Electricity Substation	1996	51477
K	307m SE	Electricity Substation	1999	51477
O	367m W	Electricity Substation	1996	44880
4	373m S	Electricity Substation	1985	44879
R	439m SW	Electricity Substation	1996	58191



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ID	Location	Land Use	Date	Group ID
R	439m SW	Electricity Substation	1985	58191

This data is sourced from Ordnance Survey / Groundsure.

2.4 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. 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	0
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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'.

This data is sourced from Ordnance Survey / Groundsure.

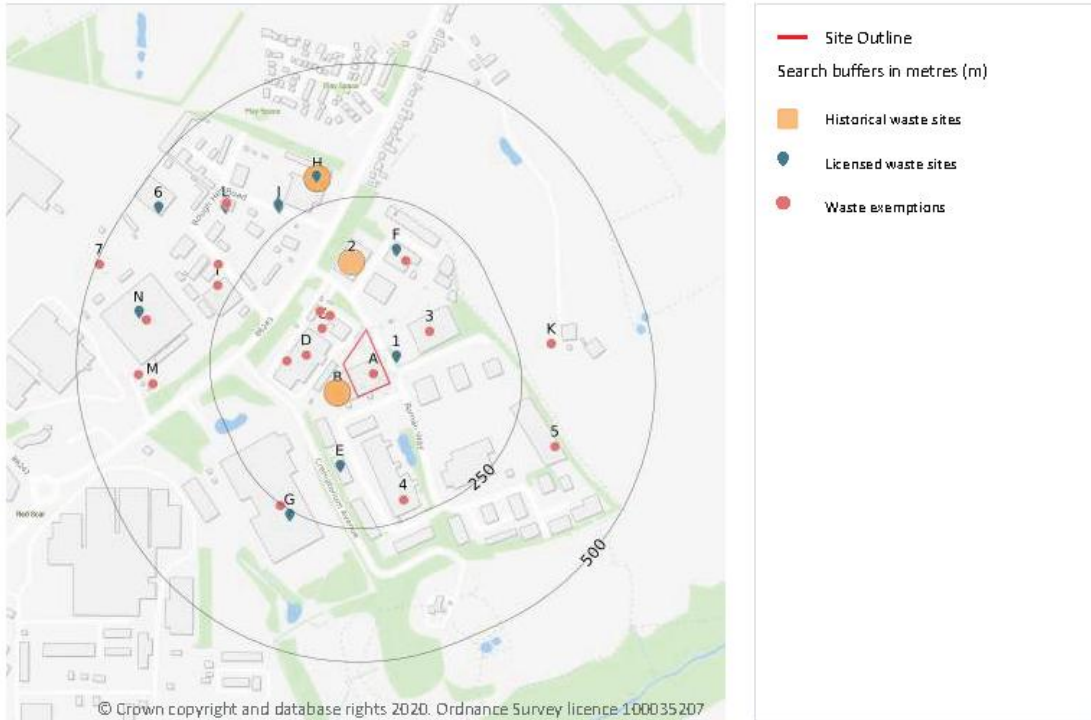


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3 Waste and landfill



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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	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
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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 23**

ID	Location	Address	Further Details	Date
B	7m SW	Site Address: Roman Way, Unit 34, Longridge Road, Ribblesdale, PRESTON, Lancashire, PR2 5BB	Type of Site: Waste transfer station Planning application reference: 06/2001/0969 Description: Scheme comprises waste transfer station for printing & photographic waste including silver recovery. There will be a site office. An application (ref: 06/2001/0969) for Detailed Planning permission was granted by Preston B.C. on 7th December 2001. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-
B	7m SW	Site Address: 72A, Roman Way, Longridge Road, Ribblesdale, PRESTON, Lancashire, PR2 5BB	Type of Site: Recycling Centre (Conversion) Planning application reference: 06/2008/0310 Description: Scheme comprises change of use of building to electrical recycling centre plastic extrusions manufacture. An application (ref: 06/2008/0310) for detailed planning permission was submitted to Preston B.C. Data source: Historic Planning Application Data Type: Point	-



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ID	Location	Address	Further Details	Date
2	105m N	Site Address: 1,Roman Way, Longridge Road, Ribbleson, PRESTON, Lancashire, PR2 5BB	Type of Site: Recycling Centre (Conversion) Planning application reference: 06/2008/0836 Description: Scheme comprises change of use from light industrial to recycling and re-use of waste electrical and electronic equipment. An application (ref: 06/2008/0836) for detailed planning permission was submitted to Preston B.C. Data source: Historic Planning Application Data Type: Point	01/08/2009
H	273m N	Site Address: Gaskell House, 45 - 49 Rough Hey Road, Preston, Lancashire, PR2 5AR	Type of Site: Material Recycling Facility Planning application reference: 06/2019/0104 Description: Scheme comprises construction of building for a material recycling facility. Data source: Historic Planning Application Data Type: Point	28/01/2019
H	273m N	Site Address: Gaskell House, 45-49 Rough Hey Road, Grimsargh, PRESTON, Lancashire, PR2 5AR	Type of Site: Storage & Recycling Centre (Extension) Planning application reference: 06/2006/0139 Description: Scheme comprises proposed extension to site for the handling, processing and storage of commingles/mixed recyclable materials. An application (ref: 06/2006/0139) for Detailed Planning permission was submitted to Preston B.C. on 6th February 2006. 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	22
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 23**



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
1	30m NE	Site Name: Tustin Developments Site Address: Tustin House. Red Scar Ind. Est, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5NE Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TUS001 EPR reference: EA/EPR/EP3791CC/S002 Operator: Tustin Developments Waste Management licence No: 54078 Annual Tonnage: 100000	Issue Date: 19/11/1992 Effective Date: - Modified:: - Surrendered Date: Nov 14 2001 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
E	137m S	Site Name: Unit 34 Roman Way Ind Est Site Address: Unit 34 Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ORI002 EPR reference: EA/EPR/AP3494SP/T001 Operator: Orion (U K) Environmental Services Ltd Waste Management licence No: 54340 Annual Tonnage: 4955	Issue Date: 20/02/2002 Effective Date: 29/07/2008 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
E	137m S	Site Name: Unit 34 Roman Way Ind Est Site Address: Unit 34 Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ORI002 EPR reference: EA/EPR/AP3494SP/T001 Operator: Orion (U K) Environmental Services Ltd Waste Management licence No: 54340 Annual Tonnage: 4955	Issue Date: 20/02/2002 Effective Date: 29/07/2008 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
F	159m N	Site Name: Cannon Hygiene Ltd Site Address: Unit 11, Longridge Road, Preston, Lancashire, PR Correspondence Address: -	Type of Site: Clinical Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OCS001 EPR reference: EA/EPR/CP3091CD/S002 Operator: Cannon Hygiene Waste Management licence No: 54039 Annual Tonnage: 399	Issue Date: 23/08/1990 Effective Date: - Modified:: 11/04/2001 Surrendered Date: 02/12/2002 Expiry Date: - Cancelled Date: - Status: Surrendered
F	159m N	Site Name: Cannon Hygiene Ltd Site Address: Unit 11, Longridge Road, Preston, Lancashire, PR Correspondence Address: -	Type of Site: Clinical Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OCS001 EPR reference: EA/EPR/CP3091CD/S002 Operator: Cannon Hygiene Ltd Waste Management licence No: 54039 Annual Tonnage: 399	Issue Date: 23/08/1990 Effective Date: - Modified:: 11/04/2001 Surrendered Date: Dec 2 2002 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
G	258m SW	Site Name: Unit 34, Roman Way Industrial Estate Site Address: Unit 34, ""Roman Way Ind Est, Longridge Road"" Preston, Lancashire, PR2 5BD Correspondence Address: Unit 34, Roman Way Industrial Estate, Longridge Road, Ribbleton, Preston, PR2 5BD	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN178 EPR reference: - Operator: Landcair Limited Waste Management licence No: 54340 Annual Tonnage: 4955	Issue Date: 20/02/2002 Effective Date: 20/03/2004 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
G	258m SW	Site Name: Landcair Ltd Site Address: Unit 34, Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: Unit 34, Roman Way Industrial Estate, Longridge Road, Ribbleton, Preston, PR2 5BD	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN178 EPR reference: - Operator: Landcair Ltd Waste Management licence No: 54340 Annual Tonnage: 4955	Issue Date: 20/02/2002 Effective Date: 20/03/2004 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
G	258m SW	<p>Site Name: Environmental Chemical Control Ltd Site Address: Unit 34, Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: Unit 34, Roman Way Industrial Estate, Longridge Road, Ribbleson, Preston, PR2 5BD</p>	<p>Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN178 EPR reference: - Operator: Environmental Chemical Control Ltd Waste Management licence No: 54340 Annual Tonnage: 4955</p>	<p>Issue Date: 20/02/2002 Effective Date: 20/03/2004 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred</p>
G	258m SW	<p>Site Name: Environmental Chemical Control Ltd Site Address: Unit 34, Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: Unit 34, Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD</p>	<p>Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECC003 EPR reference: - Operator: Environmental Chemical Control Waste Management licence No: 54340 Annual Tonnage: 0</p>	<p>Issue Date: 20/02/2002 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued</p>
G	258m SW	<p>Site Name: Landcair Ltd Site Address: Unit 34, Roman Way Ind Est, Longridge Road, Preston, Lancashire, PR2 5BD Correspondence Address: Unit 34, Roman Way Industrial Estate, Longridge Road, Ribbleson, Preston, PR2 5BD</p>	<p>Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN178 EPR reference: - Operator: Landcair Ltd Waste Management licence No: 54340 Annual Tonnage: 4955</p>	<p>Issue Date: 20/02/2002 Effective Date: 20/03/2004 Modified:: 16/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred</p>
J	282m NW	<p>Site Name: Valpak Recycling (North West) Limited Site Address: Gaskell House, 45-49, Rough Hey Road Ind Est, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -</p>	<p>Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS010 EPR reference: EA/EPR/BP3993ZV/V002 Operator: Valpak Recycling (North West) Limited Waste Management licence No: 54461 Annual Tonnage: 74999</p>	<p>Issue Date: 26/05/2006 Effective Date: - Modified:: 19/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p>



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
J	285m NW	Site Name: Gaskell House Site Address: Gaskell House, 45-49, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JWS036 EPR reference: EA/EPR/NB3930AF/V004 Operator: P G P Polymer Limited Waste Management licence No: 54461 Annual Tonnage: 74999	Issue Date: 26/05/2006 Effective Date: 05/03/2013 Modified:: 26/10/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
J	285m NW	Site Name: Gaskell House Site Address: Gaskell House, 45-49, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JWS036 EPR reference: EA/EPR/NB3930AF/V002 Operator: J W S Lancashire Limited Waste Management licence No: 54461 Annual Tonnage: 74999	Issue Date: 26/05/2006 Effective Date: 05/03/2013 Modified:: 10/06/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
J	285m NW	Site Name: K T Recycling Limited Site Address: Gaskell House, 45-49, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KTR001 EPR reference: EA/EPR/EB3606UB/T001 Operator: K T Recycling Limited Waste Management licence No: 54461 Annual Tonnage: 74999	Issue Date: 26/05/2006 Effective Date: 02/12/2016 Modified:: 26/10/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
H	301m N	Site Name: Gaskell House Site Address: Gaskell House, 45-49, Rough Hey Road Ind Est, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JWS036 EPR reference: EA/EPR/NB3930AF/T001 Operator: J W S Lancashire Limited Waste Management licence No: 54461 Annual Tonnage: 74999	Issue Date: 26/05/2006 Effective Date: 05/03/2013 Modified:: 19/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
L	350m NW	Site Name: Waste Recycling Group Ltd Site Address: 45-49, Rough Hey Road, Rough Hey Ind Est, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: 45-49, Rough Hey Road, Rough Hey Ind Est, Grimsargh, Preston, Lancashire, PR2 5AR	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS010 EPR reference: - Operator: Waste Management Group Waste Management licence No: 54461 Annual Tonnage: 0	Issue Date: 26/05/2006 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
L	350m NW	Site Name: Valpak Recycling (North West) Limited Site Address: Gaskell House, 45-49, Rough Hey Road, Rough Hey Ind Est, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS010 EPR reference: EA/EPR/BP3993ZV/A001 Operator: Valpak Recycling (North West) Limited Waste Management licence No: 54461 Annual Tonnage: 75000	Issue Date: 26/05/2006 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details		
L	352m NW	Site Name: Rowan Scrap Metal Site Address: Rowan House, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIE004 EPR reference: EA/EPR/PP3593ZJ/A001 Operator: Kiernan Construction Ltd Waste Management licence No: 54448 Annual Tonnage: 24999	Issue Date: 12/10/2005 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
L	352m NW	Site Name: World Of Rover Site Address: Unit 21, Rough Hey Road, Longridge, Bolton, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COR141 EPR reference: EA/EPR/DB3831RA/A001 Operator: S And L Corless Ltd Waste Management licence No: 103673 Annual Tonnage: 4999	Issue Date: 25/01/2012 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
N	395m W	Site Name: Recycling Lives Recycling Park Site Address: Recycling Lives Recycling Park, Longridge Road, Ribbleson, Preston, Lancashire, PR2 5BX Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC208 EPR reference: EA/EPR/EP3595SK/V004 Operator: Recycling Lives Limited Waste Management licence No: 101161 Annual Tonnage: 440000	Issue Date: 20/08/2010 Effective Date: - Modified:: 26/07/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
N	395m W	Site Name: Recycling Lives Recycling Park Site Address: Recycling Lives Recycling Park, Longridge Road, Ribbleson, Preston, Lancashire, PR2 5BX Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC208 EPR reference: EA/EPR/EP3595SK/V004 Operator: Recycling Lives Limited Waste Management licence No: 101161 Annual Tonnage: 440000	Issue Date: 20/08/2010 Effective Date: - Modified:: 26/07/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



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ID	Location	Details		
6	451m NW	Site Name: Rowan Scrap Metals Site Address: Rowan Scrap Metals, Rough Hey Ind Est, Ribbleton, Preston, Lancashire, PR2 5AR Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROW033 EPR reference: EA/EPR/AB3805HH/A001 Operator: Rowan Scrap Metals Limited Waste Management licence No: 400878 Annual Tonnage: 74999	Issue Date: 05/11/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	48
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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 23**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	UNIT 21-22, ROMAN WAY, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BB	WEX131366	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	UNIT 21-22, ROMAN WAY, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BB	WEX131366	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	UNIT 21-22, ROMAN WAY, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BB	WEX171044	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	70m NW	ASTRA BUSINESS CENTRE, UNIT 10, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX112512	Storing waste exemption	Not on a farm	Storage of waste in a secure place



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
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ID	Location	Site	Reference	Category	Sub-Category	Description
C	70m NW	ASTRA BUSINESS CENTRE, UNIT 10, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX112512	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	70m NW	ASTRA BUSINESS CENTRE, UNIT 10, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX114618	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	70m NW	ASTRA BUSINESS CENTRE, UNIT 10, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX114618	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	72m W	ASTRA BUSINESS CENTRE, UNIT 6, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX145252	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
D	72m W	ASTRA BUSINESS CENTRE, UNIT 6, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5AP	WEX145252	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	72m NW	Unit 10 Astra Business Centre Longridge Road PRESTON PR2 5AP	EPR/TE5546EH /A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	92m NW	Unit 10 Astra Business Centre Longridge Road PRESTON PR2 5AP	EPR/WE5750Z L/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	92m NW	Unit 10 Astra Business Centre Longridge Road PRESTON PR2 5AP	EPR/EE5541TP /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
D	106m W	unit 6 Astra business Centre Grimsargh Lancashire PR25AP	EPR/KF0605ZE /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste to manufacture finished goods
3	109m NE	Unit 81, Roman Way Industrial Estate, Preston Lancashire, PR2 5BB	WEX100449	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	149m NE	UNIT 14, ROMAN WAY, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BB	WEX123206	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
4	214m SE	Red Scar Industrial Estate Unit A42 Longridge Road PRESTON PR2 5NB	EPR/EE5759ZL /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place



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Your ref: 4199
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ID	Location	Site	Reference	Category	Sub-Category	Description
G	254m SW	170, LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BP	WEX215248	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	278m NW	-	WEX200980	Treating waste exemption	Not on a farm	Recovery of scrap metal
I	299m NW	Pakawaste Ltd, Unit 2 Rough Hey Road, Grimsargh, Preston, PR2 5AR	WEX143634	Disposing of waste exemption	Not on a farm	Depositing samples of waste for the purposes of testing or analysing them
I	299m NW	2 Rough Hey Road Preston Lancashire PR2 5AR	EPR/JF0807CQ /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Depositing samples of waste for the purposes of testing or analysing them
K	313m E	ROMAN ROAD FARM, LONGRIDGE ROAD, GRIMSARGH, PRESTON, PR2 5SB	WEX192523	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
K	313m E	ROMAN ROAD FARM, LONGRIDGE ROAD, GRIMSARGH, PRESTON, PR2 5SB	WEX192523	Storing waste exemption	On a Farm	Storage of waste in a secure place
K	313m E	ROMAN ROAD FARM, LONGRIDGE ROAD, GRIMSARGH, PRESTON, PR2 5SB	WEX029703	Storing waste exemption	On a farm	Storage of waste in a secure place
K	313m E	ROMAN ROAD FARM, LONGRIDGE ROAD, GRIMSARGH, PRESTON, PR2 5SB	WEX029703	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



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Site Condition Report



Units 21 & 22 Roman Way, Preston,
PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Site	Reference	Category	Sub-Category	Description
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
K	314m E	Roman Road Farm Longridge Road PRESTON PR2 5SB	EPR/TH0874E V/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
5	335m E	Roman Way Unit 81 Longridge Road PRESTON PR2 5BB	EPR/NF0438JG /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
L	352m NW	Gaskell House, 45-49, Rough Hey, Grimsargh, Preston, PR2 5AR	WEX121514	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	354m NW	39-41 Egerton House Egerton House Rough Hey Road Preston Lancashire PR2 5AR	EPR/YH0819R N/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
L	354m NW	39-41 Egerton House Egerton House Rough Hey Road Preston Lancashire PR2 5AR	EPR/YH0819R N/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
M	360m W	Recycling Lives Centre Longridge Road PRESTON PR2 5BX	EPR/SF0132M Y/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Recovery of scrap metal
M	360m W	Recycling Lives Centre Longridge Road PRESTON PR2 5BX	EPR/UF0432M U/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Recovery of scrap metal
M	360m W	Recycling Lives Centre Longridge Road PRESTON PR2 5BX	EPR/XF0032M P/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Recovery of scrap metal
N	379m W	1A, ESSEX STREET, PRESTON, PR1 1QE	WEX099805	Storing waste exemption	Not on a farm	Storage of waste in secure containers



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Units 21 & 22 Roman Way, Preston,
PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Site	Reference	Category	Sub-Category	Description
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX174981	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX181549	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX202256	Treating waste exemption	Not on a farm	Recovery of scrap metal
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX143292	Using waste exemption	Not on a farm	Use of waste in construction
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX050070	Treating waste exemption	Not on a farm	Recovery of scrap metal
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX053727	Treating waste exemption	Not on a farm	Recovery of scrap metal
N	379m W	LONGRIDGE ROAD, RIBBLETON, PRESTON, PR2 5BX	WEX058333	Treating waste exemption	Not on a farm	Recovery of scrap metal
M	385m W	Recycling Lives Centre Longridge Road PRESTON PR2 5BX	EPR/DF0537YC /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
7	494m W	Recycling Lives Centre Longridge Road PRESTON PR2 5BX	EPR/TF0702CY /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction

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

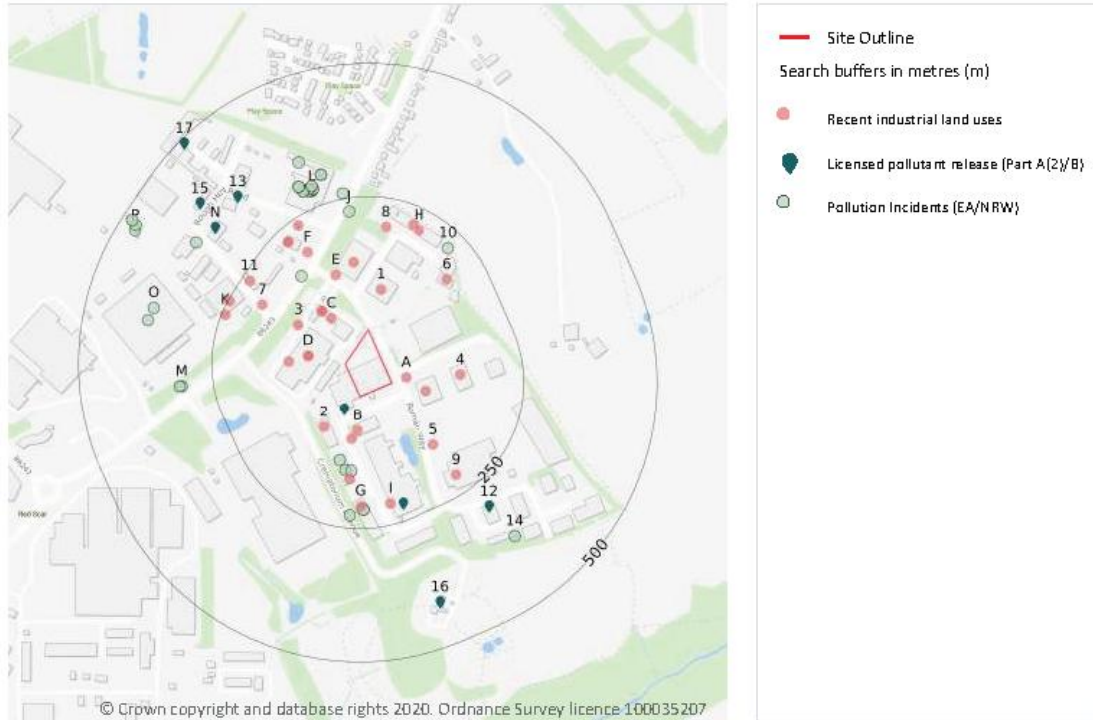


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4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

33

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 37

ID	Location	Company	Address	Activity	Category
A	29m E	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
B	65m S	Alston Pre Applied Ltd	27, Roman Way Industrial Estate, Ribbleton, Preston, Lancashire, PR2 5BD	General Construction Supplies	Industrial Products
A	69m E	Mobiletron	80, Roman Way Industrial Estate, Ribbleton, Preston, Lancashire, PR2 5BE	Vehicle Components	Industrial Products



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Site Condition Report



Units 21 & 22 Roman Way, Preston,
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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Company	Address	Activity	Category
C	69m NW	Elstat Ltd	Unit E Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Electrical Components	Industrial Products
D	72m W	Alusid Ltd	Unit 6 Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Bricks, Tiles, Clay and Ceramic Products	Industrial Products
D	72m W	Astra Door Controls Ltd	Unit 4 Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Special Purpose Machinery and Equipment	Industrial Products
1	80m N	Bowland Foods	Unit 16 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Fish, Meat and Poultry Products	Foodstuffs
B	82m S	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
2	89m SW	Flaverco	Unit 29, Roman Way Industrial Estate, Ribbleton, Preston, Lancashire, PR2 5BD	Milling, Refining and Food Additives	Foodstuffs
C	91m NW	Seward Precision Laser Ltd	Unit 9 Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Cutting, Drilling and Welding Services	Construction Services
C	91m NW	Designer Contracts	Unit 2 Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Construction Completion Services	Construction Services
D	106m W	Pyroglass	Unit 5 Astra Business Centre, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5AP	Seals, Tapes, Taps and Valves	Industrial Products
3	114m NW	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
E	120m NW	Gas Governor	Lancashire, PR2	Gas Features	Infrastructure and Facilities
E	130m N	Watson	Unit 1 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Office and Shop Equipment	Industrial Products
4	132m E	Stockport Fire Protection	Unit 81 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Special Purpose Machinery and Equipment	Industrial Products
5	142m SE	Roman Way Industrial Estate	Lancashire, PR2	Business Parks and Industrial Estates	Industrial Features
B	158m S	Rovert Electrical Ltd	Unit 36 Roman Way Industrial Estate, Ribbleton, Preston, Lancashire, PR2 5BE	Electrical Production and Manipulation Equipment	Industrial Products
6	177m NE	F & M Powder Coating Specialists Ltd	Unit 12 Roman Way Industrial Estate, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Industrial Coatings and Finishings	Industrial Products



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Units 21 & 22 Roman Way, Preston,
PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Company	Address	Activity	Category
F	185m NW	Pumping Station	Lancashire, PR2	Water Pumping Stations	Industrial Features
7	191m NW	Gas Governor	Lancashire, PR2	Gas Features	Infrastructure and Facilities
8	195m N	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
G	207m S	European Freeze Dry	45, Roman Way Industrial Estate, Ribbleton, Preston, Lancashire, PR2 5BD	Catering and Non Specific Food Products	Foodstuffs
H	210m NE	Punjab Meat Traders Ltd	Unit 8 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Fish, Meat and Poultry Products	Foodstuffs
I	211m S	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
9	214m SE	H M T Group	Unit 20 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Distribution and Haulage	Transport, Storage and Delivery
H	214m NE	Richards Hose Ltd	Unit 7 Roman Way, Longridge Road, Ribbleton, Preston, Lancashire, PR2 5BB	Special Purpose Machinery and Equipment	Industrial Products
F	222m NW	Sixt	1-4 Elker Court 16-20, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR	Vehicle Hire and Rental	Hire Services
F	222m NW	Signs Express Ltd	1-4 Elker Court 16-20, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR	Signs	Industrial Products
F	236m NW	Electricity Sub Station	Lancashire, PR2	Electrical Features	Infrastructure and Facilities
11	236m NW	Enigma	Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR	Construction and Tool Hire	Hire Services
K	243m W	Tank	Lancashire, PR2	Tanks (Generic)	Industrial Features
K	247m NW	P T S	Britannia House, Rough Hey Road, Grimsargh, Preston, Lancashire, PR2 5AR	Industrial Engineers	Engineering Services

This data is sourced from Ordnance Survey.



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4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

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

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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
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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
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Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0
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Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

4.10 Licensed industrial activities (Part A(1))

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

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

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

Records within 500m	8
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 37**



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PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Address	Details	
B	38m SW	Unit Press Ltd, Roman Way Ind Est, PR3 5LB	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	219m S	Sabre Triad, Unit 42, Roman Way Industrial Estate, Longridge Road, Preston, Lancashire, PR2 5BB	Process: Printing Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	298m SE	L & I Eaton (Preston), 72a Roman Way, Preston, PR2 5BE	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
N	345m NW	Aggregate Industries, Rough Hey Road, Ribbleton, Preston, Lancashire, PR2 5AR	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	349m NW	Tilcon Ltd, Rough Hey Rd, Preston, Lancashire, PR2 5AR	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
15	394m NW	Economics Northwest Ltd, 5b & 6b Rough Hey Road, Preston, Lancashire, PR2 5AR	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
16	416m S	Preston Crematorium, Longridge Road, Ribbleton, Preston, Lancashire, PR2 6QL	Process: Crematoria Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
17	491m NW	Aj Ball Rough, Hey Rd, Grimsargh, Preston, PR2 5AR	Process: Use of Bulk Cement 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.



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4.13 Licensed Discharges to controlled waters

Records within 500m	0
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Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 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
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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
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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
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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
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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	32
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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 37**

ID	Location	Details	
B	126m S	Incident Date: 17/05/2006 Incident Identification: 400030 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
B	142m S	Incident Date: 12/10/2005 Incident Identification: 353051 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
B	142m S	Incident Date: 08/11/2003 Incident Identification: 200541 Pollutant: Specific Waste Materials Pollutant Description: Inorganic Chemical Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	160m NW	Incident Date: 11/04/2003 Incident Identification: 150313 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	213m S	Incident Date: 21/04/2006 Incident Identification: 392472 Pollutant: Inorganic Chemicals/Products Pollutant Description: Alkalis	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
G	213m S	Incident Date: 21/04/2006 Incident Identification: 392472 Pollutant: Organic Chemicals/Products Pollutant Description: Solvents	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
10	215m NE	Incident Date: 20/09/2001 Incident Identification: 31813 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	224m N	Incident Date: 24/02/2009 Incident Identification: 656477 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)



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PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details	
G	225m S	Incident Date: 29/07/2002 Incident Identification: 95140 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	260m N	Incident Date: 25/03/2003 Incident Identification: 145676 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	280m N	Incident Date: 02/05/2019 Incident Identification: 1699371 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	282m N	Incident Date: 03/04/2018 Incident Identification: 1602318 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
L	283m NW	Incident Date: 10/04/2003 Incident Identification: 149907 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	283m N	Incident Date: 02/06/2019 Incident Identification: 1706781 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
L	286m NW	Incident Date: 01/07/2019 Incident Identification: 1714760 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	287m NW	Incident Date: 01/06/2018 Incident Identification: 1618588 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	287m NW	Incident Date: 01/06/2018 Incident Identification: 1618588 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Details	
L	289m N	Incident Date: 03/12/2013 Incident Identification: 1180545 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	298m NW	Incident Date: 20/07/2018 Incident Identification: 1635159 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	298m NW	Incident Date: 20/07/2018 Incident Identification: 1635159 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
L	303m N	Incident Date: 01/08/2018 Incident Identification: 1639350 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
L	303m N	Incident Date: 01/08/2018 Incident Identification: 1639350 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
M	309m W	Incident Date: 20/03/2003 Incident Identification: 144430 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)
M	313m W	Incident Date: 04/04/2007 Incident Identification: 482607 Pollutant: Organic Chemicals/Products Pollutant Description: Alcohols/Aldehydes	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	340m NW	Incident Date: 21/08/2006 Incident Identification: 429022 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
N	359m NW	Incident Date: 08/07/2014 Incident Identification: 1253813 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
14	371m SE	Incident Date: 14/05/2003 Incident Identification: 158191 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



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ID	Location	Details	
O	374m W	Incident Date: 09/04/2015 Incident Identification: 1327348 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
O	379m W	Incident Date: 27/01/2019 Incident Identification: 1676400 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
P	466m NW	Incident Date: 21/09/2015 Incident Identification: 1374662 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
P	471m NW	Incident Date: 20/09/2016 Incident Identification: 1472707 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
P	481m NW	Incident Date: 23/10/2015 Incident Identification: 1382991 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)

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.





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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.

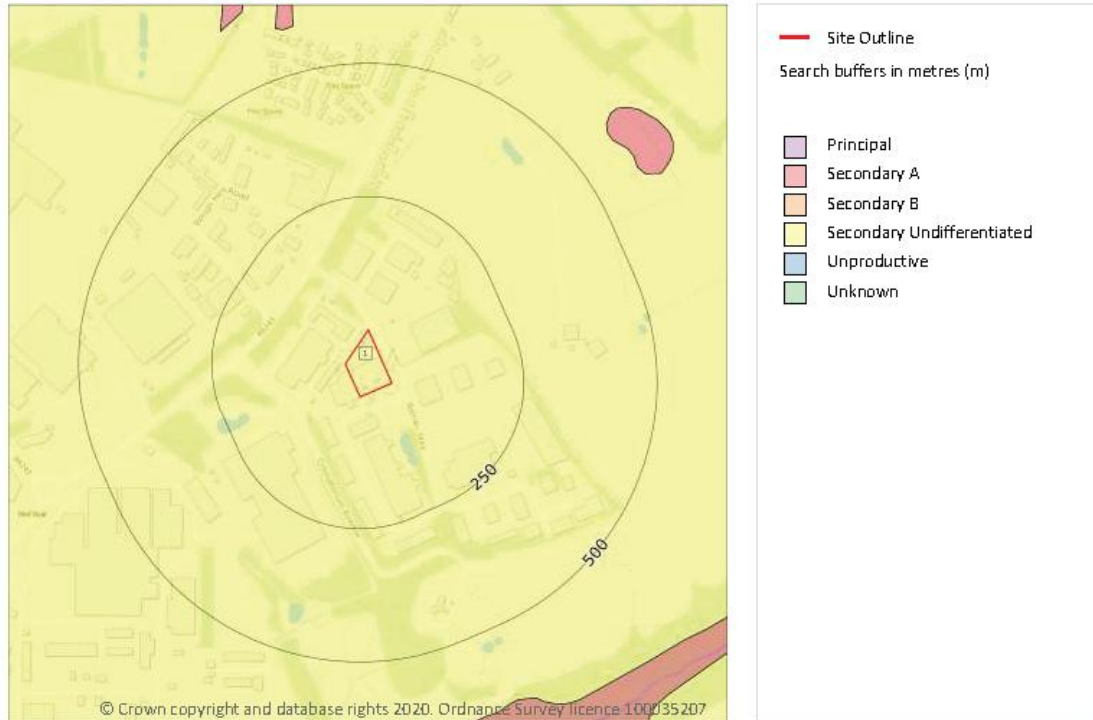


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5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 49](#)

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

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

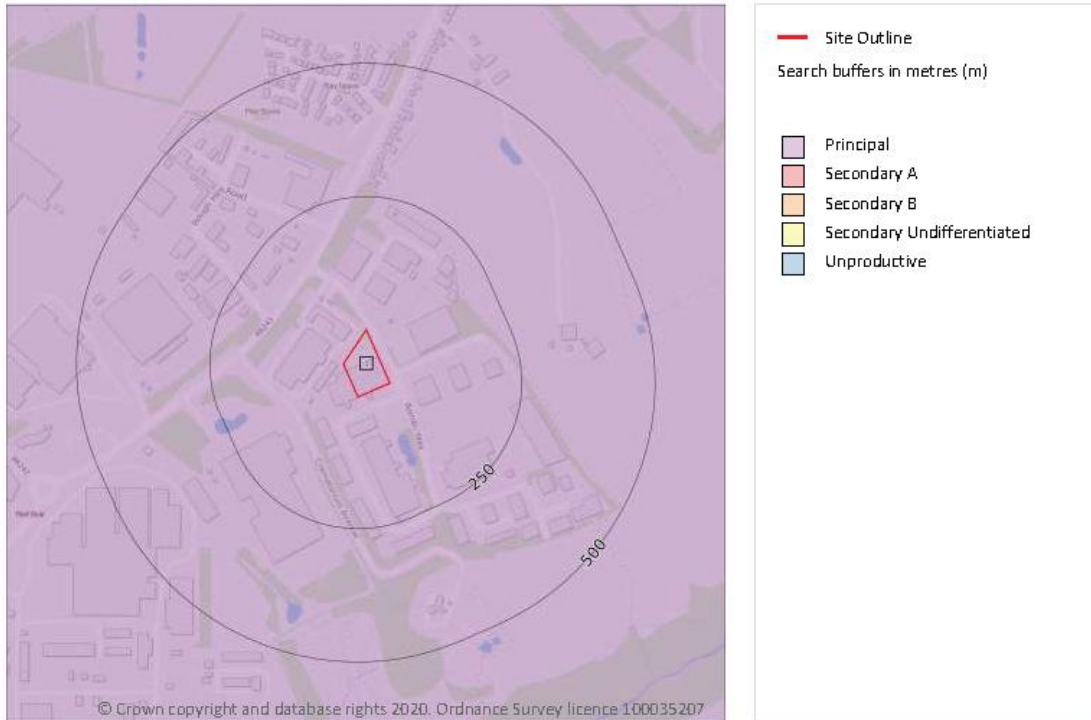


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Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 50](#)

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

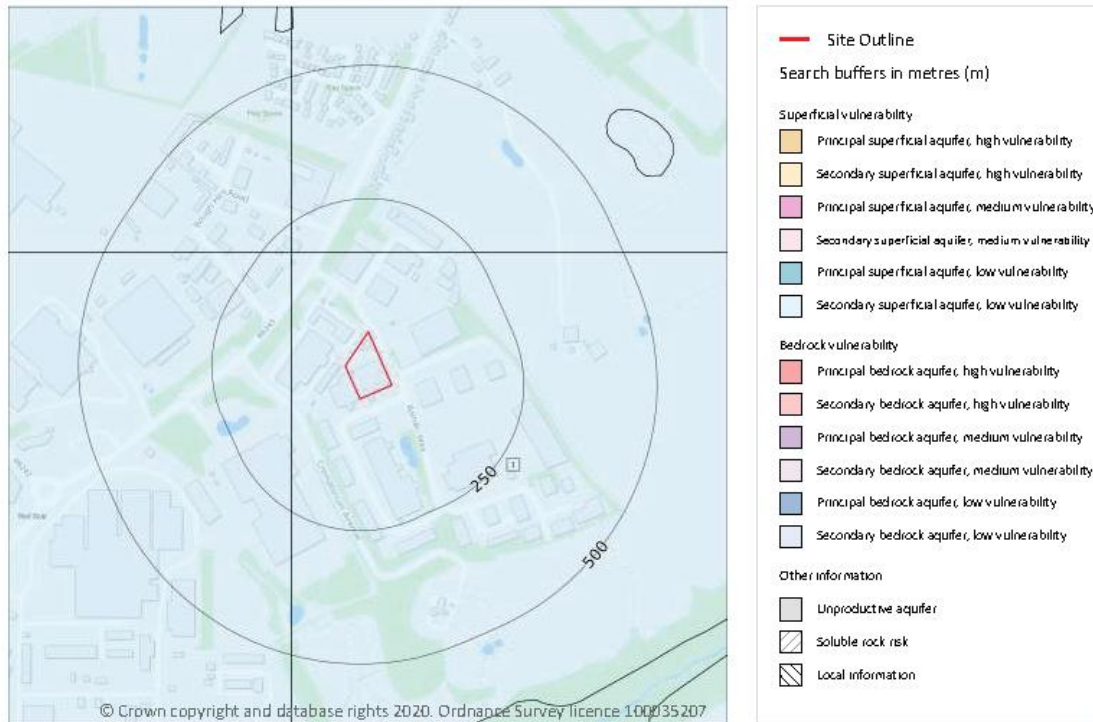


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Groundwater vulnerability



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 51**





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

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.

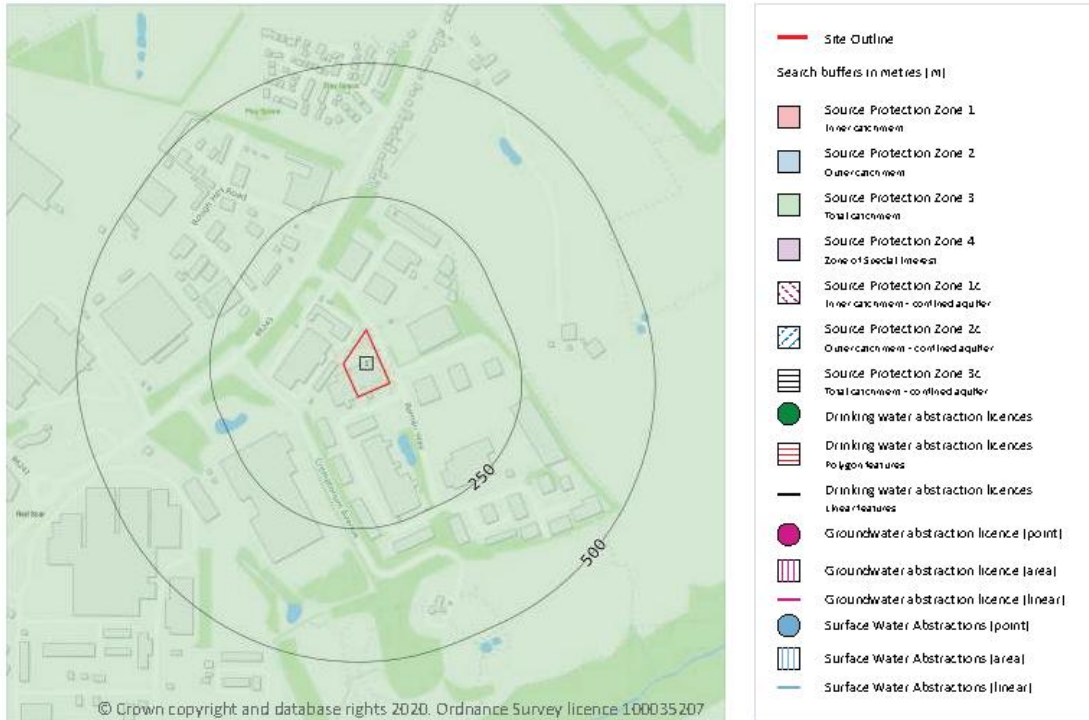


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Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

10

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 53



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Grid ref: 358144 432787

ID	Location	Details	
-	1472m S	Status: Historical Licence No: 2671339010 Details: Mineral Washing Direct Source: Ground Water - North West Region Point: "PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY" Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 358500 Northing: 431300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 102 Version Start Date: 01/09/2000 Version End Date: -
-	1472m S	Status: Historical Licence No: 2671339010 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY" Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 358500 Northing: 431300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 102 Version Start Date: 01/09/2000 Version End Date: -
-	1472m S	Status: Historical Licence No: 2671339010 Details: Dust suppression Direct Source: Ground Water - North West Region Point: "PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY" Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 358500 Northing: 431300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 102 Version Start Date: 01/09/2000 Version End Date: -
-	1472m S	Status: Historical Licence No: 2671339010 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY Data Type: Point Name: Lancashire Wildlife Trust Easting: 358500 Northing: 431300	Annual Volume (m ³): 1,685,000 Max Daily Volume (m ³): 6033 Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 103 Version Start Date: 26/11/2018 Version End Date: -



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ID	Location	Details	
-	1472m S	Status: Historical Licence No: 2671339010 Details: Mineral Washing Direct Source: Ground Water - North West Region Point: PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY Data Type: Point Name: Lancashire Wildlife Trust Easting: 358500 Northing: 431300	Annual Volume (m ³): 1,685,000 Max Daily Volume (m ³): 6033 Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 103 Version Start Date: 26/11/2018 Version End Date: -
-	1472m S	Status: Historical Licence No: 2671339010 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: PHASE 1 LAGOON AT HIGHER BROCKHOLES QUARRY, SAMLESBURY Data Type: Point Name: Lancashire Wildlife Trust Easting: 358500 Northing: 431300	Annual Volume (m ³): 1,685,000 Max Daily Volume (m ³): 6033 Original Application No: - Original Start Date: 30/12/1994 Expiry Date: - Issue No: 103 Version Start Date: 26/11/2018 Version End Date: -
-	1747m E	Status: Historical Licence No: 2671338030 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT ELSTON OLD HALL FARM , GRIMSARGH" Data Type: Point Name: ECCLESTON Easting: 359900 Northing: 432400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/02/1992 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1992 Version End Date: -
-	1747m E	Status: Historical Licence No: 2671338030 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT ELSTON OLD HALL FARM , GRIMSARGH Data Type: Point Name: ECCLESTON Easting: 359900 Northing: 432400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/02/1992 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1992 Version End Date: -



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ID	Location	Details	
-	1747m E	Status: Active Licence No: 2671338030 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT ELSTON OLD HALL FARM, GRIMSARGH Data Type: Point Name: ECCLESTON Easting: 359900 Northing: 432400	Annual Volume (m ³): 7,955.50 Max Daily Volume (m ³): 27.28 Original Application No: - Original Start Date: 24/02/1992 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1992 Version End Date: -
-	1998m S	Status: Historical Licence No: 2671339011 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND & PREMISES AT BROCKHOLES QUARRY, SALMESBURY, LANCASHIRE Data Type: Point Name: HANSON AGGREGATES (NORTH) LTD Easting: 358630 Northing: 430790	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 18/06/2004 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	1
-----------------------------	----------

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 53**

ID	Location	Details	
-	1442m SE	Status: Historical Licence No: 2671338032 Details: Transfer Between Sources (Pre Water Act 2003) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER RIBBLE AT SAMLESBURY Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 358700 Northing: 431400	Annual Volume (m ³): 240000 Max Daily Volume (m ³): 2571 Original Application No: - Original Start Date: 22/07/1997 Expiry Date: - Issue No: 102 Version Start Date: 05/11/2004 Version End Date: -

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



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5.8 Potable abstractions

Records within 2000m	1
-----------------------------	----------

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 53**

ID	Location	Details	
-	1998m S	Status: Historical Licence No: 2671339011 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND & PREMISES AT BROCKHOLES QUARRY, SALMESBURY, LANCASHIRE Data Type: Point Name: HANSON AGGREGATES (NORTH) LTD Easting: 358630 Northing: 430790	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 18/06/2004 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	1
----------------------------	----------

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 53**

ID	Location	Type	Description
1	On site	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

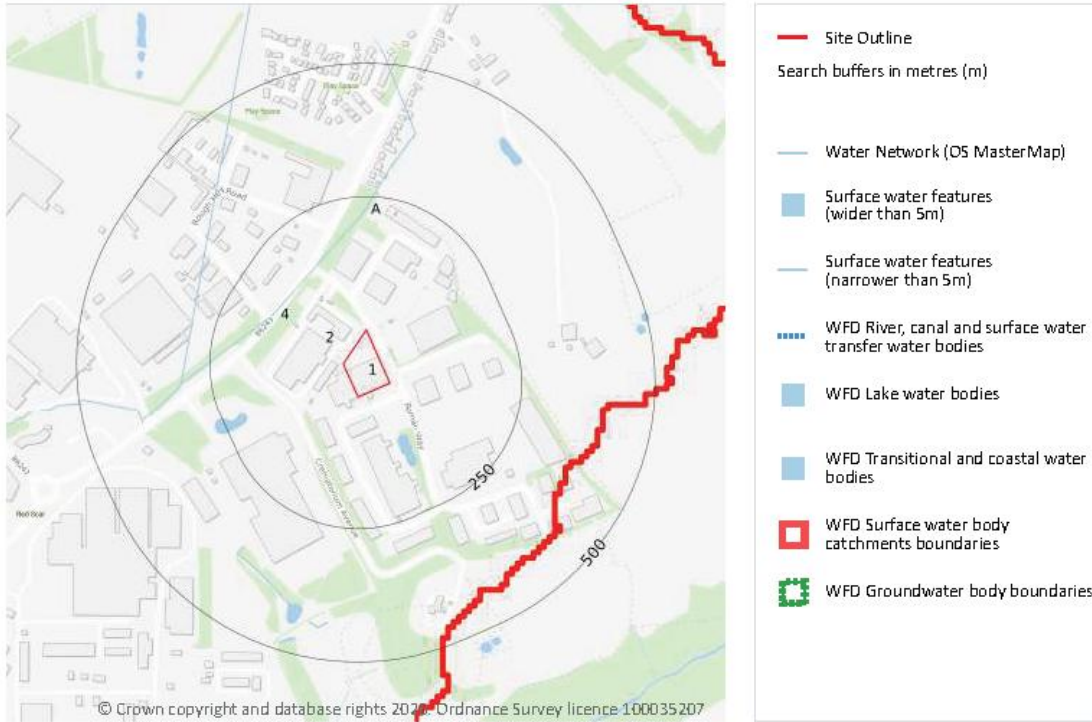
Records within 500m	0
----------------------------	----------

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.



6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

2

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

Features are displayed on the Hydrology map on [page 58](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
4	149m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



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ID	Location	Type of water feature	Ground level	Permanence	Name
A	216m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	3
----------------------------	----------

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

Features are displayed on the Hydrology map on **page 58**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Savick Brook	GB112071065470	Savick Brook and Fylde South Drains	Ribble

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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





water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1311m SW	River	Savick Brook	GB112071065470	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Fylde Permo-Triassic Sandstone Aquifers	GB41201G100500	Good	Good	Good	2015

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



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m 0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m 0

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

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

7.3 Flood Defences

Records within 250m 0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m 0

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

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





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7.5 Flood Storage Areas

Records within 250m

0

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

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



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River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
--------------------	---

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

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

7.7 Flood Zone 3

Records within 50m	0
--------------------	---

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site	1 in 30 year, 0.1m - 0.3m
Highest risk within 50m	1 in 30 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 64**

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



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

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.

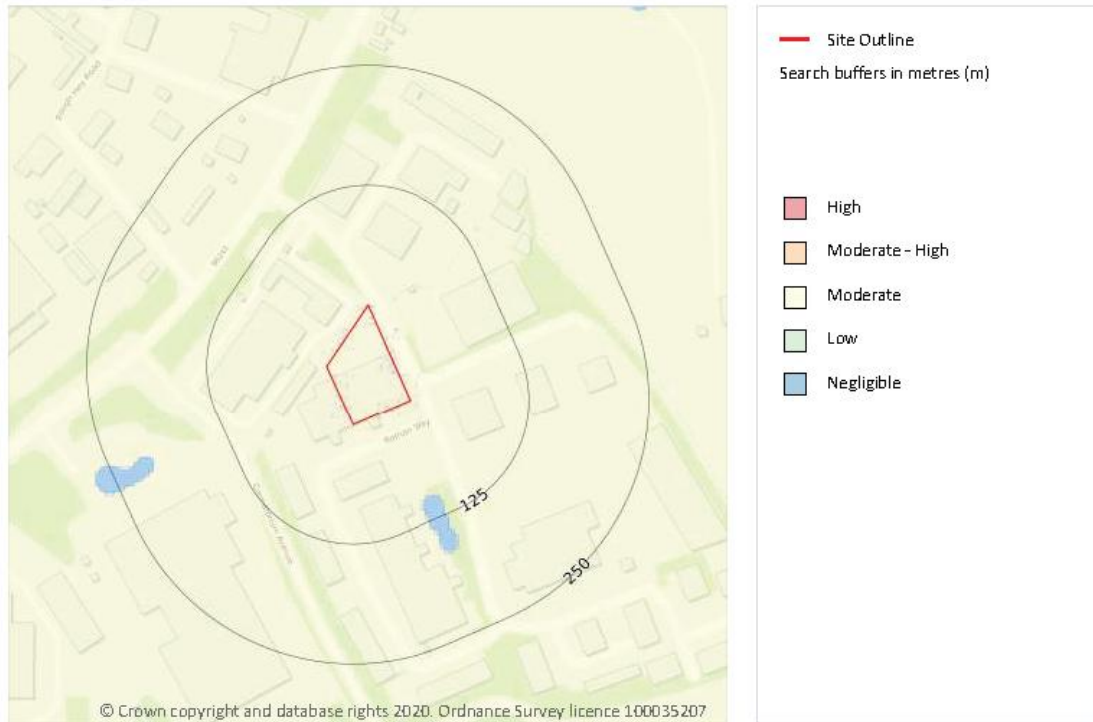


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9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site	Moderate
Highest risk within 50m	Moderate

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on page 66

This data is sourced from Ambient Risk Analytics.

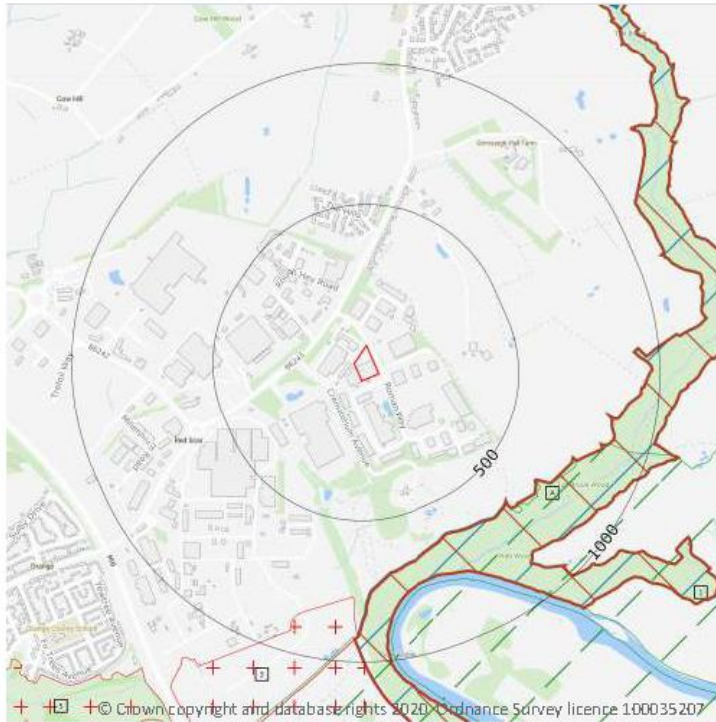


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10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Marine Conservation Zones
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on page 67

ID	Location	Name	Data source
A	620m SE	Red Scar and Tun Brook Woods	Natural England



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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

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



10.6 Local Nature Reserves (LNR)

Records within 2000m	5
-----------------------------	----------

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 67**

ID	Location	Name	Data source
3	770m S	Fishwick Bottoms	Natural England
4	922m S	Pope Land Open Space	Natural England
5	1284m SW	Grange Valley	Natural England
-	1609m W	Hills and Hollows	Natural England
-	1672m S	Fishwick Bottoms	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	5
-----------------------------	----------

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

Features are displayed on the Environmental designations map on **page 67**

ID	Location	Name	Woodland Type
A	623m SE	RED SCAR/TUN BROOKWOODS	Ancient & Semi-Natural Woodland
-	1541m E	BIG WOOD	Ancient Replanted Woodland
-	1552m E	BIG WOOD	Ancient & Semi-Natural Woodland
-	1683m S	BROCKHOLES WOOD	Ancient & Semi-Natural Woodland
-	1853m NW	FULWOOD PARK WOODS	Ancient & Semi-Natural Woodland

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





10.8 Biosphere Reserves

Records within 2000m	0
----------------------	---

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

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

10.9 Forest Parks

Records within 2000m	0
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These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	3
----------------------	---

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

Features are displayed on the Environmental designations map on **page 67**

ID	Location	Name	Status
-	1394m SE	Ribble Estuary	Designated
-	1740m SE	Ribble Estuary	Designated
-	1965m SE	Ribble Estuary	Designated

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

10.11 Green Belt

Records within 2000m	3
----------------------	---

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

Features are displayed on the Environmental designations map on **page 67**





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ID	Location	Name	Local Authority name
1	621m SE	Liverpool and Manchester	Preston
2	768m S	Liverpool and Manchester	South Ribble
-	1519m S	Liverpool and Manchester	Preston

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

10.12 Proposed Ramsar sites

Records within 2000m	0
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Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0
-----------------------------	----------

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0
-----------------------------	----------

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



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10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 73**



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ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Residential - Residential development of 100 units or more.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t).</p> <p>Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	4
-----------------------------	----------

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 73**

ID: 6
 Location: 620m SE
 SSSI name: Red Scar and Tun Brook Woods
 Unit name: Red Scar Wood
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Populations of nationally scarce butterfly species - Satyrium w-album, White-letter Hairstreak	Not Recorded	01/01/1900
Wet woodland	Not Recorded	01/01/1900



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Site Condition Report



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ID: 7
Location: 661m SE
SSSI name: Red Scar and Tun Brook Woods
Unit name: Tun Brook Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Not Recorded	01/01/1900
Populations of nationally scarce butterfly species - Satyrium w-album, White-letter Hairstreak	Not Recorded	01/01/1900

ID: 9
Location: 868m SE
SSSI name: Red Scar and Tun Brook Woods
Unit name: Nab Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Not Recorded	01/01/1900
Populations of nationally scarce butterfly species - Satyrium w-album, White-letter Hairstreak	Not Recorded	01/01/1900

ID: -
Location: 1264m S
SSSI name: Red Scar and Tun Brook Woods
Unit name: Boilton Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	29/03/2016
Populations of nationally scarce butterfly species - Satyrium w-album, White-letter Hairstreak	Favourable	29/03/2016

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



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11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0
---------------------	---

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0
---------------------	---

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

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

11.3 National Parks

Records within 250m	0
---------------------	---

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

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

11.4 Listed Buildings

Records within 250m	0
---------------------	---

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

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

11.7 Registered Parks and Gardens

Records within 250m

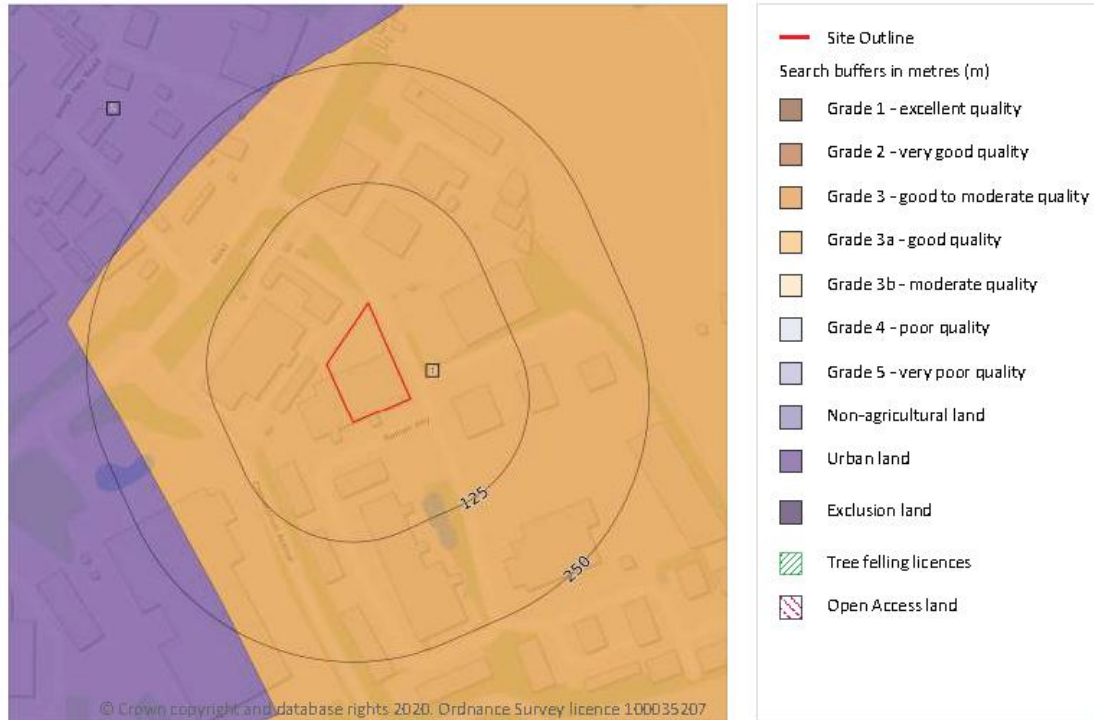
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 78**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	210m SW	Urban	-



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This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

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

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

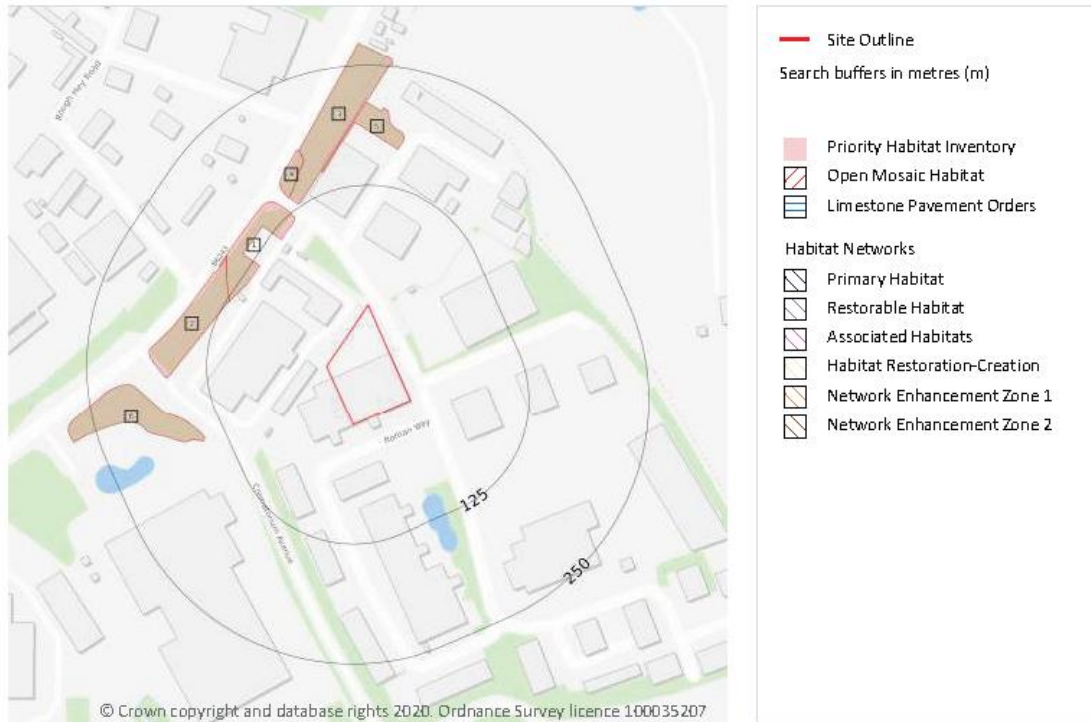
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

6

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

Features are displayed on the Habitat designations map on page 80

ID	Location	Main Habitat	Other habitats
1	113m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	122m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	128m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	139m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



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ID	Location	Main Habitat	Other habitats
5	146m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	147m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m **0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m **0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m **0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

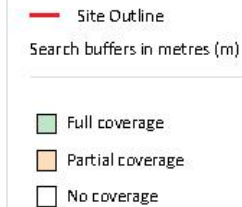


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14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 82](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD53SE

This data is sourced from the British Geological Survey.

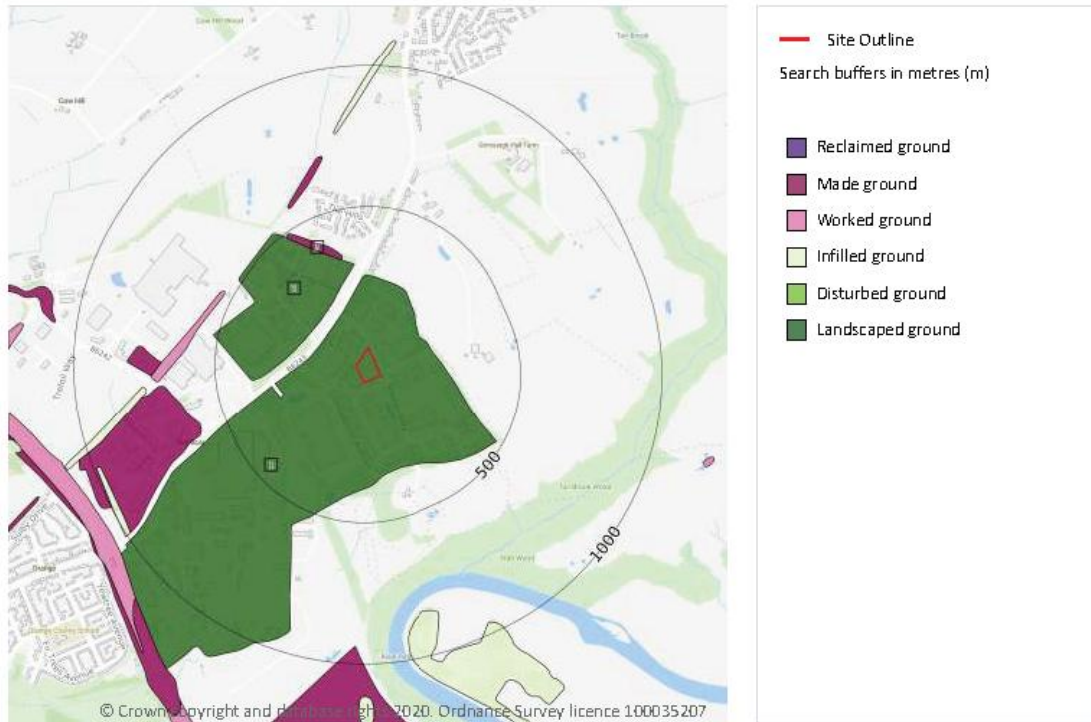


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Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m

3

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on page 83

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
2	194m NW	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
3	328m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

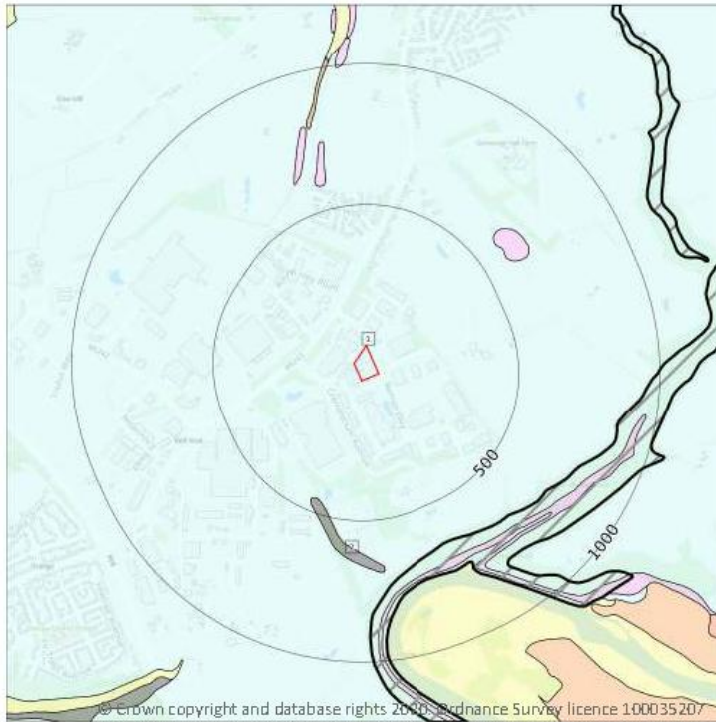


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Geology 1:10,000 scale - Superficial



- ▬ Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

2

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 84**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-CSVZ	Till, Devensian - Clay, Sandy, Gravelly, Silty (unlithified Deposits Coding Scheme)	Clay, Sandy, Gravelly, Silty
2	449m S	HEAD-CVZS	Head - Gravelly Silty Sandy Clay	Clay, Gravelly, Silty, Sandy

This data is sourced from the British Geological Survey.



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14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

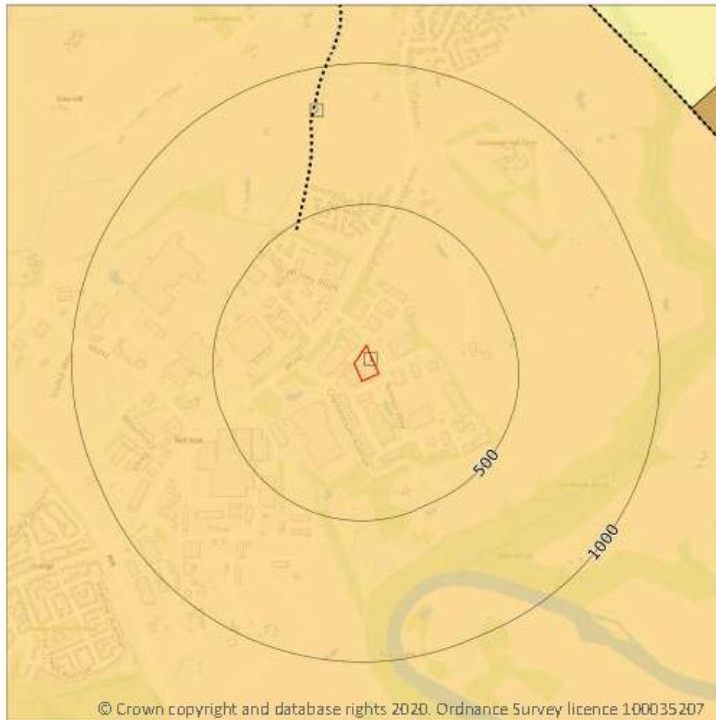


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Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

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14.5 Bedrock geology (10k)

Records within 500m

1

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 86

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.



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14.6 Bedrock faults and other linear features (10k)

Records within 500m

1

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

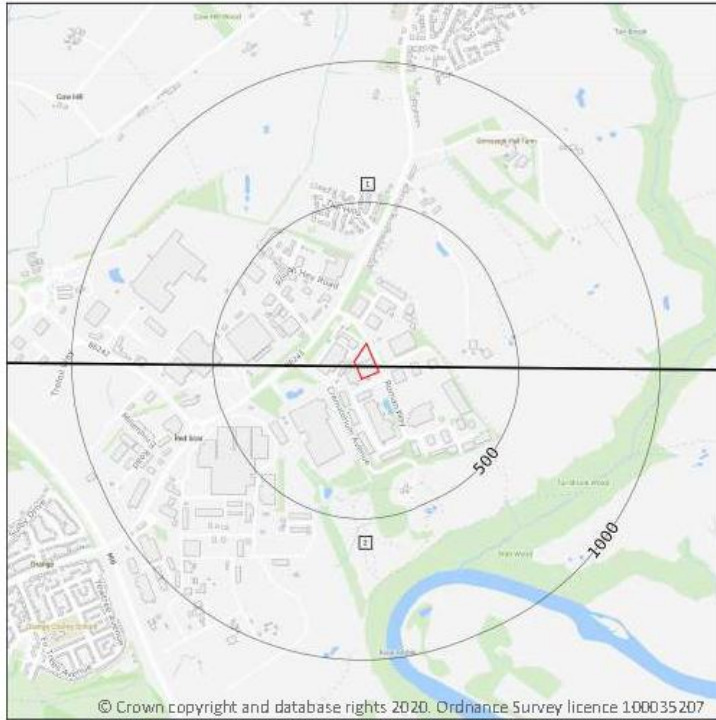
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 86**

ID	Location	Category	Description
2	479m NW	LANDFORM	Glacial meltwater channel, undifferentiated, centre line

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

15.1 50k Availability

Records within 500m

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 88

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW067_garstang_v4
2	On site	No coverage	Full	Full	Full	EW075_preston_v4

This data is sourced from the British Geological Survey.



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Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

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

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

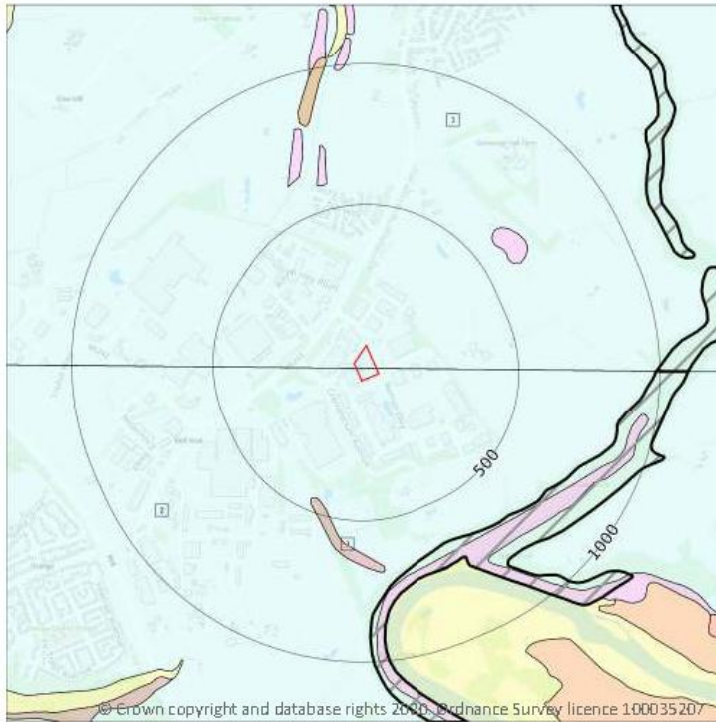
Records within 50m	0
--------------------	---

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- ▭ Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 90

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



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ID	Location	LEX Code	Description	Rock description
3	449m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

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

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

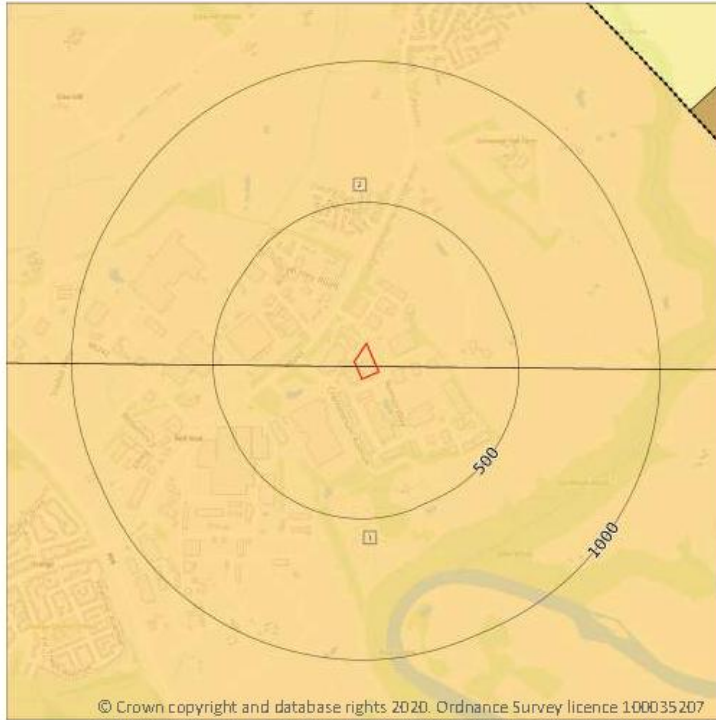
Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

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15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 92](#)

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-
2	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.



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15.9 Bedrock permeability (50k)

Records within 50m	1
--------------------	---

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

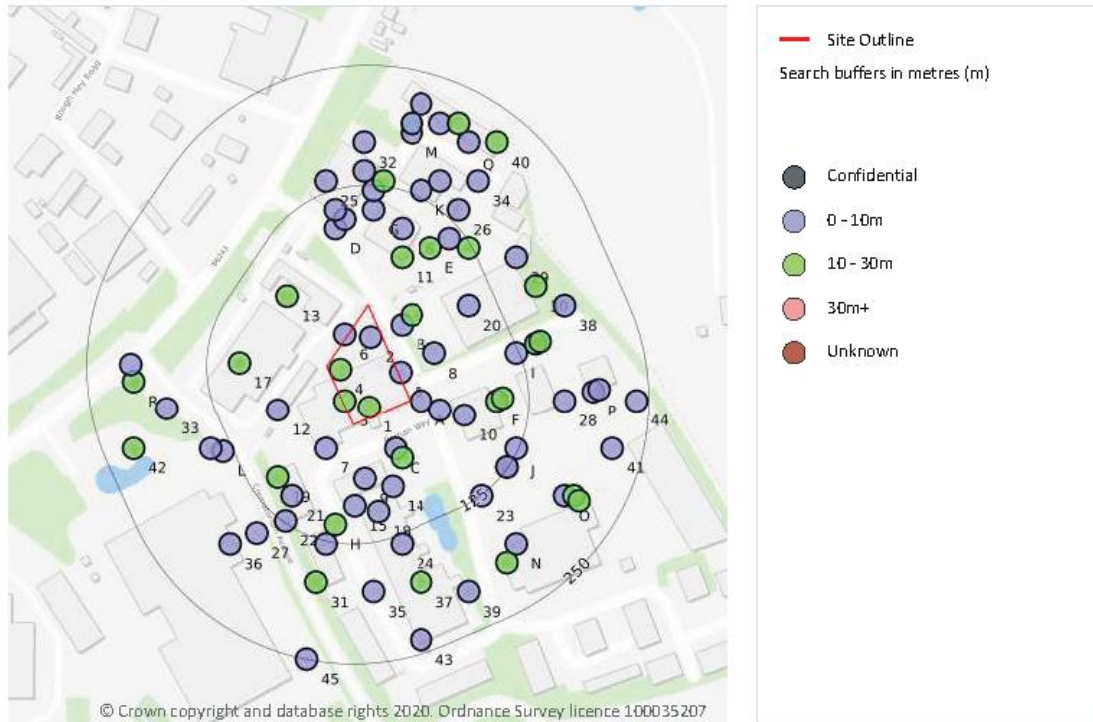
Records within 500m	0
---------------------	---

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

91

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on page 94

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	358145 432743	ROMAN WAY EMPLOY AREA C9	11.0	N	11684
2	On site	358147 432817	ROMAN WAY EMPLOY AREA C6	10.0	N	11681
3	On site	358120 432750	LONGRIDGE ROAD PRESTON 10	12.0	N	17685878



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Date: 15 May 2020



Site Condition Report



Units 21 & 22 Roman Way, Preston,
PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	358115 432783	ROMAN WAY EMPLOY AREA C7	11.0	N	11682
5	3m NE	358178 432780	ROMAN WAY EMPLOY AREA C8	10.0	N	11683
6	3m NW	358120 432820	LONGRIDGE ROAD PRESTON 7	6.0	N	17685876
A	12m E	358200 432750	LONGRIDGE ROAD PRESTON 14	6.0	N	17685882
B	25m NE	358180 432830	ROMAN WAY S.W. OUTFALL 4	5.0	N	17115775
A	34m E	358220 432740	ROMAN WAY S.W. OUTFALL 3	6.0	N	17115768
7	38m SW	358100 432700	ROMAN WAY EMPLOY AREA C10	10.0	N	11685
B	38m NE	358190 432840	LONGRIDGE ROAD PRESTON 11	12.0	N	17685879
C	40m SE	358173 432700	ROMAN WAY EMPLOY AREA C11	10.0	N	11686
8	44m NE	358214 432800	ROMAN WAY EMPLOY AREA B5	10.0	N	11680
C	52m SE	358180 432690	LONGRIDGE ROAD PRESTON 17	12.0	N	17685885
9	58m S	358141 432668	ROMAN WAY EMPLOY AREA C12	10.0	N	11687
10	60m E	358246 432735	ROMAN WAY EMPLOY AREA D14	10.0	N	11689
11	61m NE	358180 432900	LONGRIDGE ROAD - SITE A S11	11.0	N	17115259
12	65m SW	358050 432740	LONGRIDGE ROAD PRESTON 6	6.0	N	17685875
13	75m NW	358060 432860	LONGRIDGE ROAD PRESTON 3	12.19	N	17685867
14	76m SE	358170 432660	ROMAN WAY S.W. OUTFALL 2	6.0	N	17115766
15	85m S	358130 432640	ROMAN WAY S.W. OUTFALL 1	6.0	N	17115743
D	87m NW	358110 432930	LONGRIDGE ROAD PRESTON 1	6.71	N	17685865
16	87m NE	358180 432930	LONGRIDGE ROAD - SITE A S10	10.0	N	17115257
E	89m NE	358210 432910	LONGRIDGE ROAD - SITE A S12	10.1	N	17115260
17	91m W	358010 432790	LONGRIDGE ROAD PRESTON 2	12.0	N	17685866
F	92m E	358280 432750	LONGRIDGE ROAD PRESTON 18	12.0	N	17685886
D	93m N	358120 432940	LONGRIDGE ROAD - SITE A CBR1	2.2	N	17115297
18	95m S	358155 432634	ROMAN WAY EMPLOY AREA F35	10.0	N	11710
19	96m SW	358050 432670	LONGRIDGE ROAD PRESTON 9	12.0	N	17685877
20	97m NE	358250 432850	ROMAN WAY EMPLOY AREA B2	10.0	N	11677
F	98m E	358286 432753	ROMAN WAY EMPLOYMENT AREA 18	12.0	N	17759673



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ID	Location	Grid reference	Name	Length	Confidential	Web link
21	98m SW	358065 432650	ROMAN WAY EMPLOY AREA C13	10.0	N	11688
G	100m N	358150 432950	LONGRIDGE ROAD - SITE A S9	10.0	N	17115256
D	105m N	358110 432950	LONGRIDGE ROAD - SITE A S1	10.0	N	17115246
H	106m S	358110 432620	LONGRIDGE ROAD PRESTON 13	12.0	N	17685881
E	111m NE	358230 432920	LONGRIDGE ROAD - SITE A CBR3	2.0	N	17115302
G	120m N	358150 432970	LONGRIDGE ROAD - SITE A CBR2	2.1	N	17115299
E	121m NE	358250 432910	LONGRIDGE ROAD PRESTON 12	12.0	N	17685880
I	122m NE	358300 432800	ROMAN WAY EMPLOY AREA B4	10.0	N	11679
J	123m SE	358300 432700	ROMAN WAY EMPLOY AREA D18	10.0	N	11693
22	123m SW	358058 432624	LONGRIDGE ROAD SW SEWER S14	6.2	N	11675
J	124m SE	358290 432680	ROMAN WAY EMPLOYMENT AREA 20	6.0	N	17759933
J	124m SE	358290 432680	LONGRIDGE ROAD PRESTON 20	6.0	N	17685888
23	126m SE	358264 432650	ROMAN WAY EMPLOY AREA D19	10.0	N	11694
H	128m S	358100 432600	ROMAN WAY EMPLOY AREA F36	10.0	N	11711
G	131m N	358160 432980	LONGRIDGE ROAD PRESTON 4	12.0	N	17685868
K	132m NE	358200 432970	LONGRIDGE ROAD - SITE A S6	10.0	N	17115253
24	135m S	358180 432600	ROMAN WAY EMPLOY AREA F37	10.0	N	11712
L	135m SW	357993 432697	LONGRIDGE ROAD SW SEWER S12	6.0	N	11673
25	137m N	358100 432980	LONGRIDGE ROAD - SITE A S2	10.0	N	17115247
26	138m NE	358240 432950	LONGRIDGE ROAD - SITE A S8	10.0	N	17115255
G	140m N	358140 432990	LONGRIDGE ROAD - SITE A S3	10.0	N	17115248
I	145m NE	358320 432810	LONGRIDGE ROAD PRESTON 19	12.0	N	17685887
L	146m SW	357980 432700	LONGRIDGE ROAD 6(1) SOUTH EAST 48	10.0	N	17115379
I	150m NE	358325 432812	ROMAN WAY EMPLOYMENT AREA 19	12.0	N	17759932
K	150m NE	358220 432980	LONGRIDGE ROAD - SITE A S7	10.0	N	17115254
27	152m SW	358028 432611	LONGRIDGE ROAD SW SEWER S13	6.0	N	11674
28	162m E	358350 432750	ROMAN WAY EMPLOY AREA D15	10.0	N	11690
29	163m NE	358300 432900	ROMAN WAY EMPLOY AREA B1	10.0	N	11676



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Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
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ID	Location	Grid reference	Name	Length	Confidential	Web link
30	169m NE	358320 432870	LONGRIDGE ROAD PRESTON 15	12.0	N	17685883
31	169m S	358090 432560	LONGRIDGE ROAD PRESTON 16	12.0	N	17685884
32	170m N	358140 433020	LONGRIDGE ROAD - SITE A S4	10.0	N	17115250
33	173m W	357934 432742	LONGRIDGE ROAD SW SEWER S11	6.0	N	11672
34	174m NE	358260 432980	LONGRIDGE ROAD - SITE A CBR5	2.0	N	17115305
35	176m S	358150 432550	ROMAN WAY EMPLOY AREA F38	10.0	N	11713
36	179m SW	358000 432600	LONGRIDGE ROAD 6(1) SOUTH EAST 49	10.0	N	17115381
37	180m SE	358200 432560	LONGRIDGE ROAD PRESTON 22	12.0	N	17685890
M	185m N	358190 433030	LONGRIDGE ROAD - SITE A CBR4	2.0	N	17115304
N	188m SE	358300 432600	ROMAN WAY EMPLOY AREA D23	10.0	N	11698
38	188m NE	358350 432850	ROMAN WAY EMPLOY AREA B3	10.0	N	11678
O	191m SE	358350 432650	ROMAN WAY EMPLOY AREA D20	10.0	N	11695
P	192m E	358380 432760	LONGRIDGE ROAD PRESTON 21	6.05	N	17685889
M	195m N	358190 433040	LONGRIDGE ROAD PRESTON 5	12.0	N	17685869
M	195m N	358190 433040	LONGRIDGE ROAD - SITE A S5	10.0	N	17115251
P	198m E	358386 432762	ROMAN WAY EMPLOYMENT AREA 21	6.05	N	17759934
N	199m SE	358290 432580	LONGRIDGE ROAD PRESTON 24	12.0	N	17685891
O	199m SE	358360 432650	LONGRIDGE ROAD PRESTON 25	12.0	N	17685892
Q	200m NE	358250 433020	LONGRIDGE ROAD - SITE A N16	9.2	N	17115277
R	202m W	357900 432770	LONGRIDGE ROAD 6(1) SOUTH EAST 45	10.5	N	17115322
R	204m W	357897 432788	LONGRIDGE ROAD SW SEWER S10	6.0	N	11671
Q	204m N	358220 433040	LONGRIDGE ROAD - SITE A N14	10.0	N	17115265
O	206m SE	358365 432645	ROMAN WAY EMPLOYMENT AREA 25	12.0	N	17759935
39	209m SE	358250 432550	ROMAN WAY EMPLOY AREA F39	10.0	N	11714
Q	212m NE	358240 433040	LONGRIDGE ROAD - SITE A N15	10.5	N	17115274
M	217m N	358200 433060	LONGRIDGE ROAD - SITE A N13	10.0	N	17115261
40	217m NE	358280 433020	LONGRIDGE ROAD - SITE A N17	11.0	N	17115294
41	218m E	358400 432700	ROMAN WAY EMPLOY AREA D17	10.0	N	11692



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ID	Location	Grid reference	Name	Length	Confidential	Web link
42	219m SW	357900 432700	LONGRIDGE ROAD 6(1) SOUTH EAST 47	11.0	N	17115330
43	236m S	358200 432500	ROMAN WAY EMPLOY AREA F40	10.0	N	11715
44	237m E	358425 432750	ROMAN WAY EMPLOY AREA D16	10.0	N	11691
45	250m S	358080 432480	LONGRIDGE ROAD 6(1) SOUTH EAST 54	10.0	N	17115396

This data is sourced from the British Geological Survey.

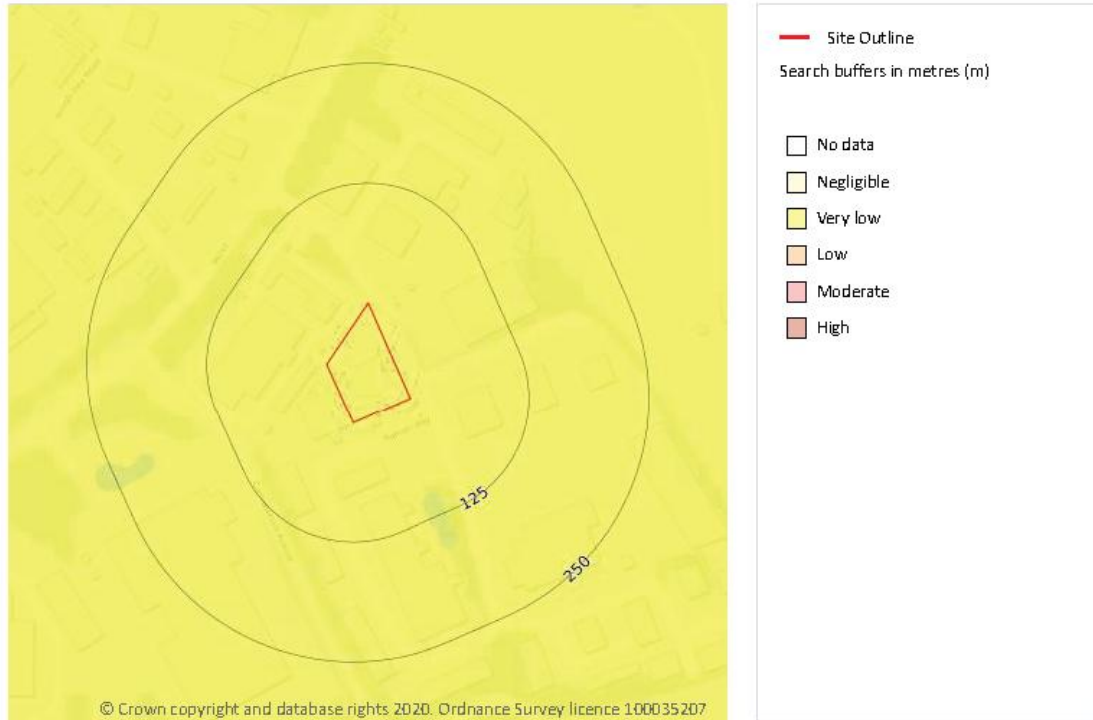


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17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 99

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

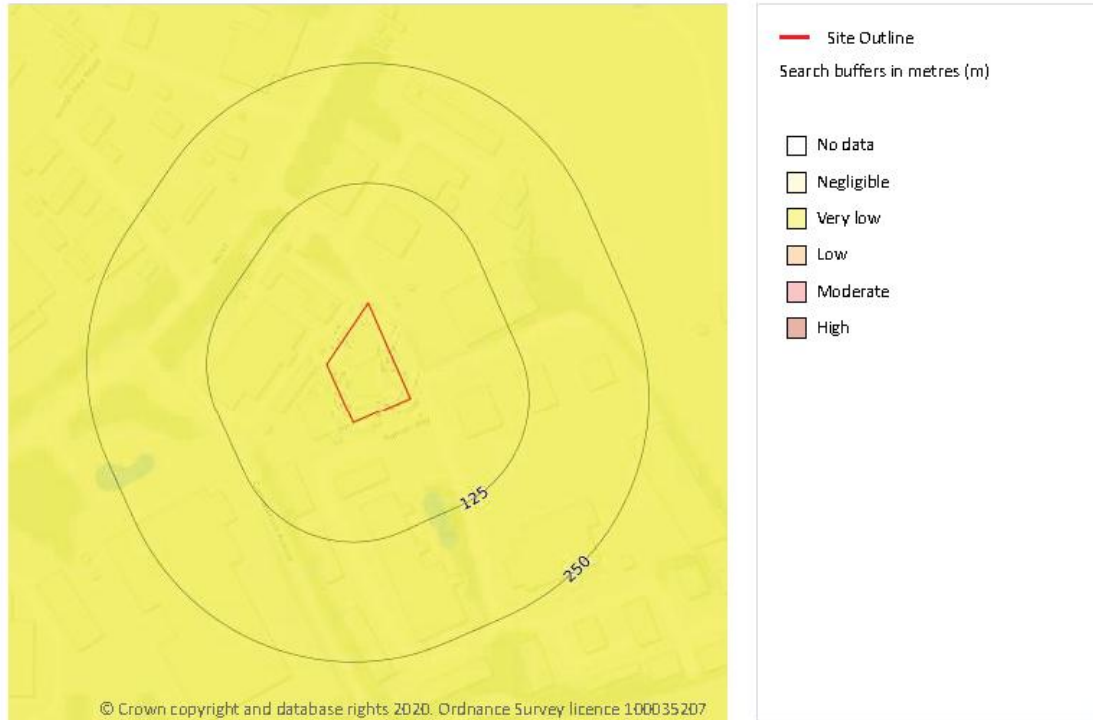


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Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on page 100

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

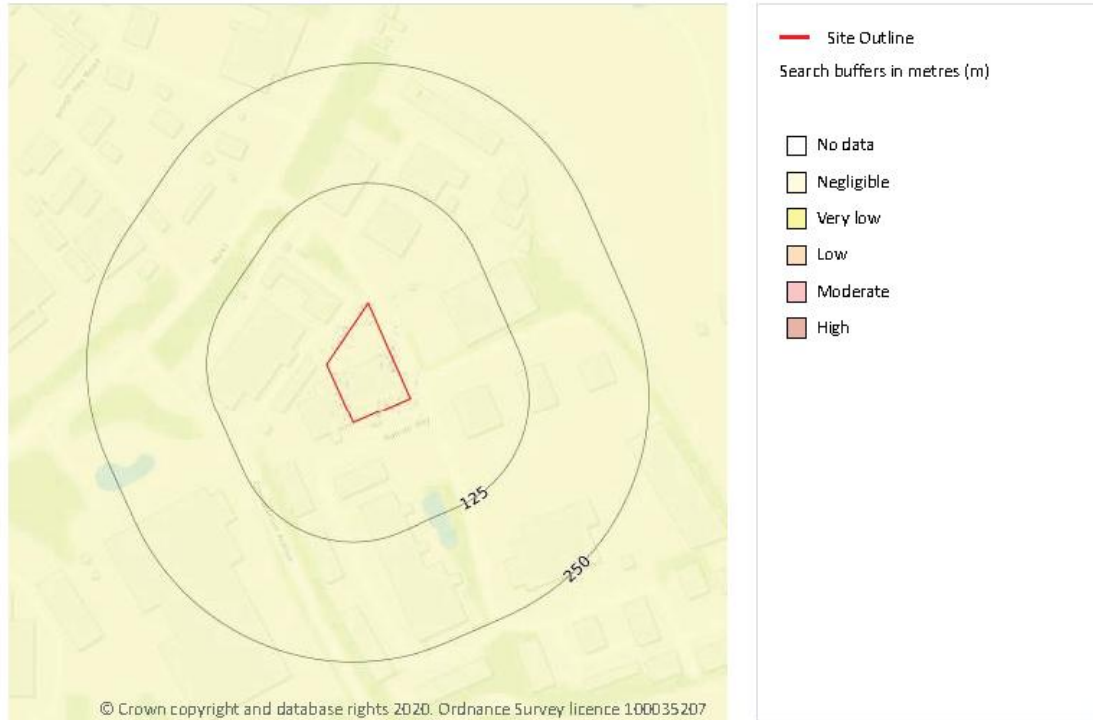


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Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 101

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

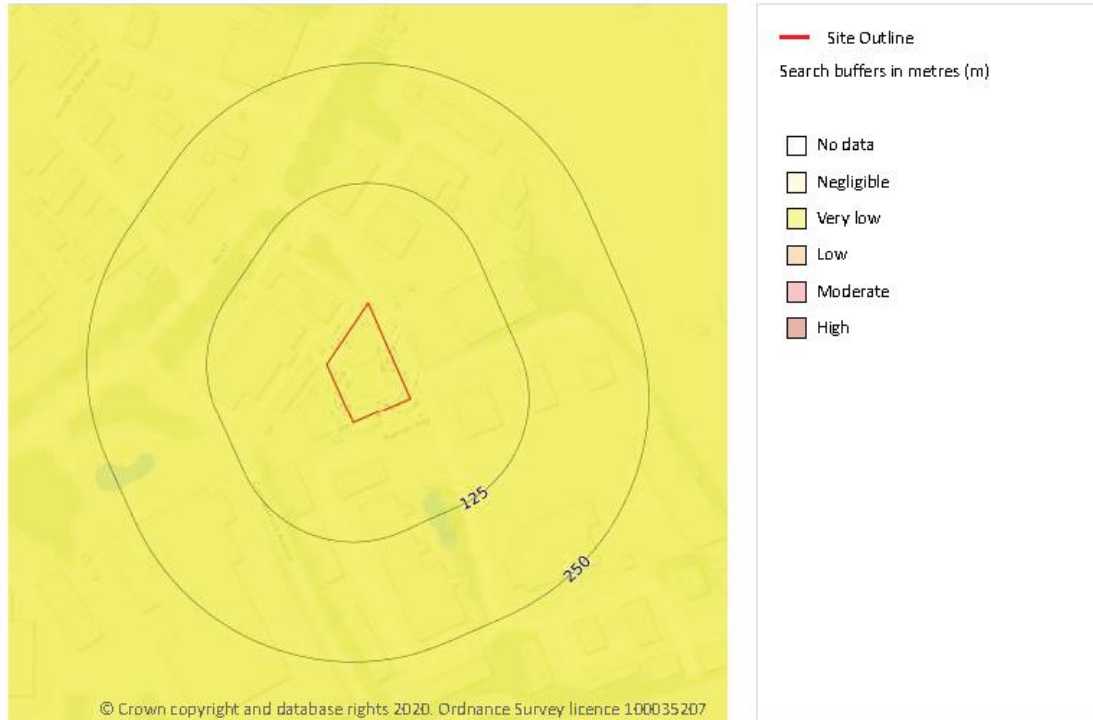


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Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 102

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

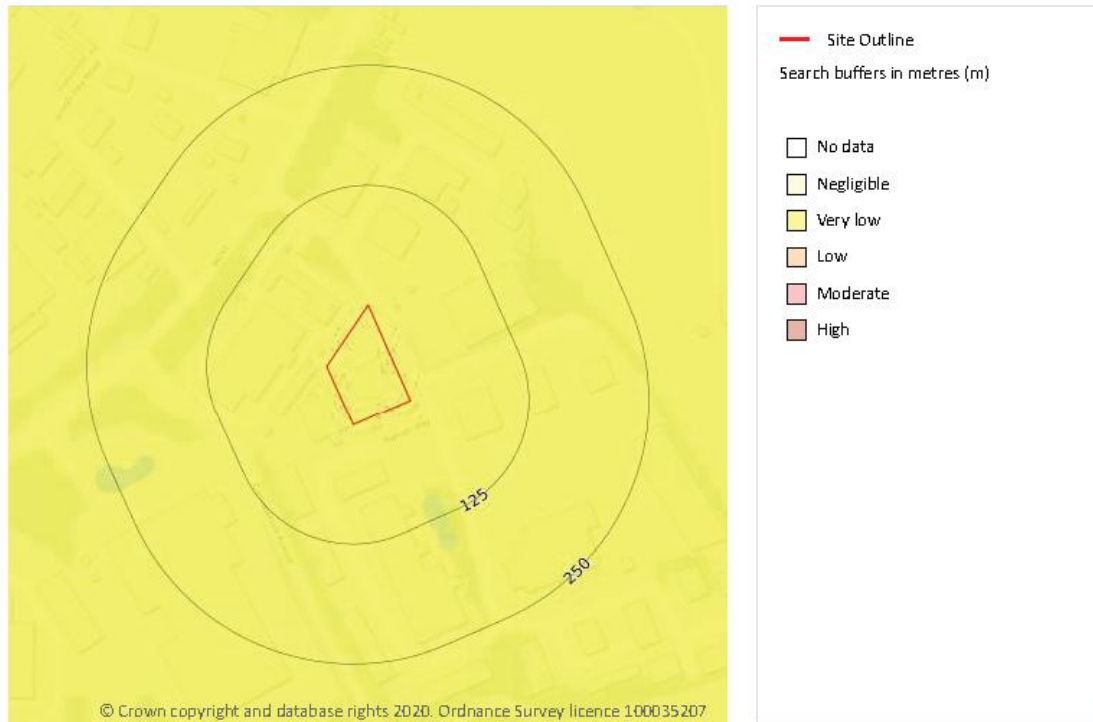


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Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on page 103

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

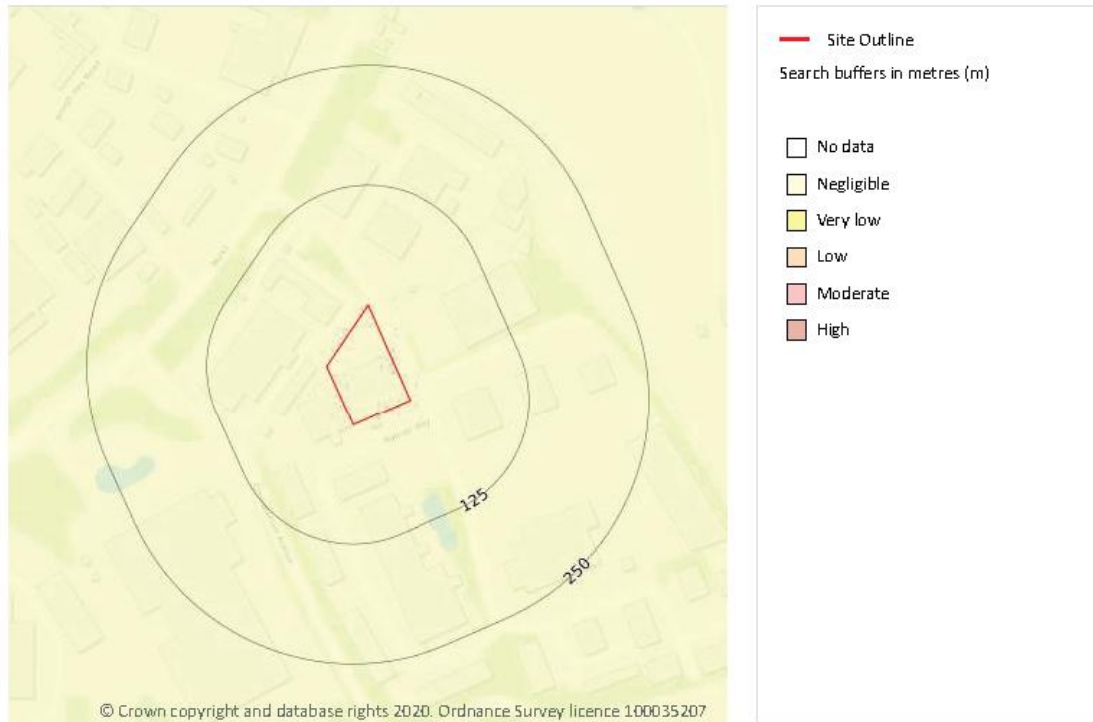


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Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 104

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



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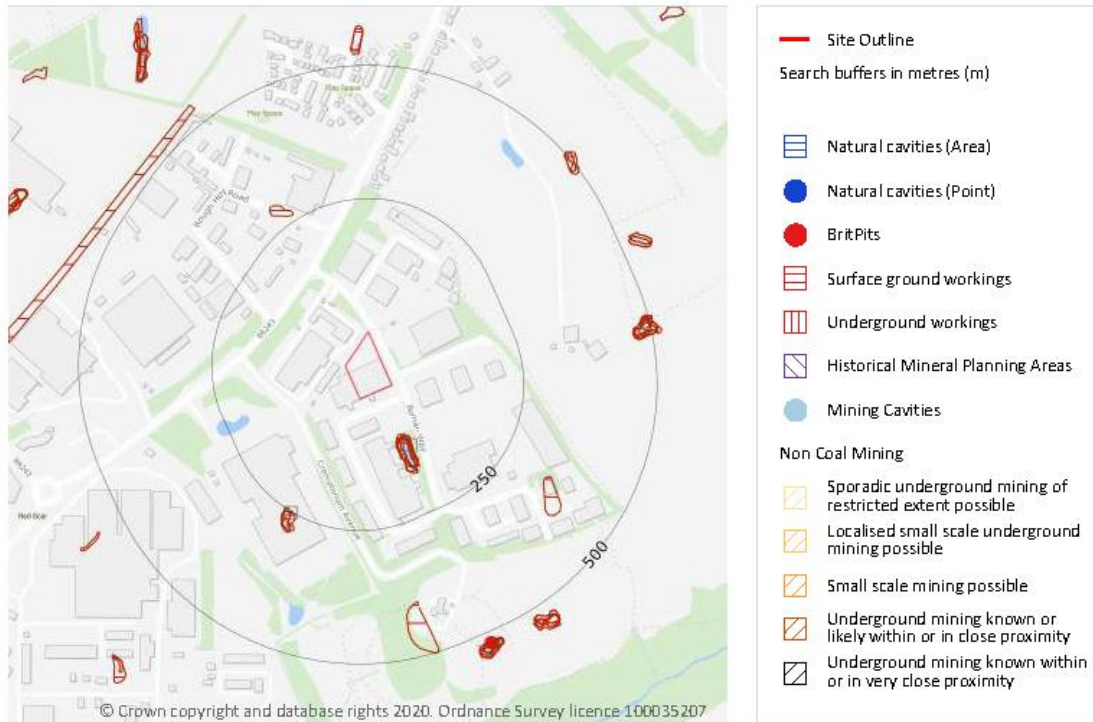


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18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Peter Brett Associates (PBA).



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18.2 BritPits

Records within 500m	0
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BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	12
---------------------	----

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Land Use	Year of mapping	Mapping scale
A	92m SE	Pond	1951	1:10560
A	97m SE	Pond	1965	1:10560
A	97m SE	Pond	1978	1:10000
A	97m SE	Pond	1992	1:10000
A	99m SE	Pond	1938	1:10560
A	99m SE	Pond	1929	1:10560
A	99m SE	Pond	1910	1:10560
A	99m SE	Pond	1892	1:10560
A	102m SE	Pond	1892	1:10560
A	105m SE	Ponds	1846	1:10560
B	247m SW	Ponds	1892	1:10560
B	249m SW	Pond	1846	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.





18.9 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

Records on site

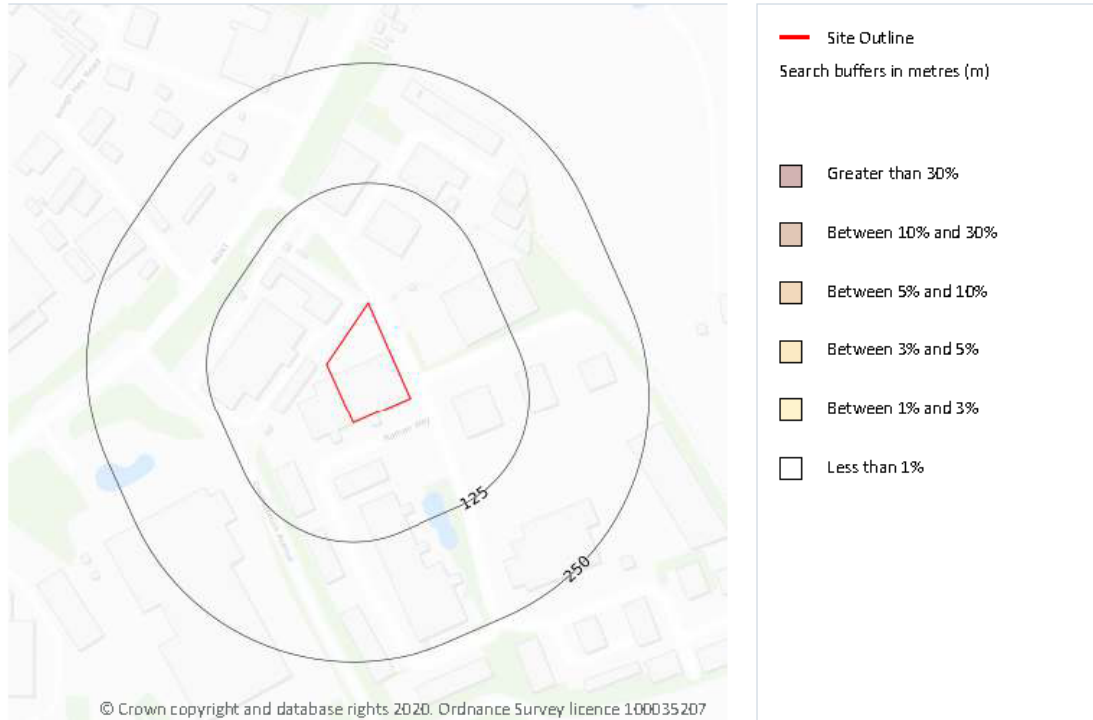
0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on page 110

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



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20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m 0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m 0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m 0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m 0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m 0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.





This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.





Units 21 & 22 Roman Way, Preston,
PR2 5BB

Ref: CMAPS-CM-876518-4199-150520EDRGEO
Your ref: 4199
Grid ref: 358144 432787

Data providers

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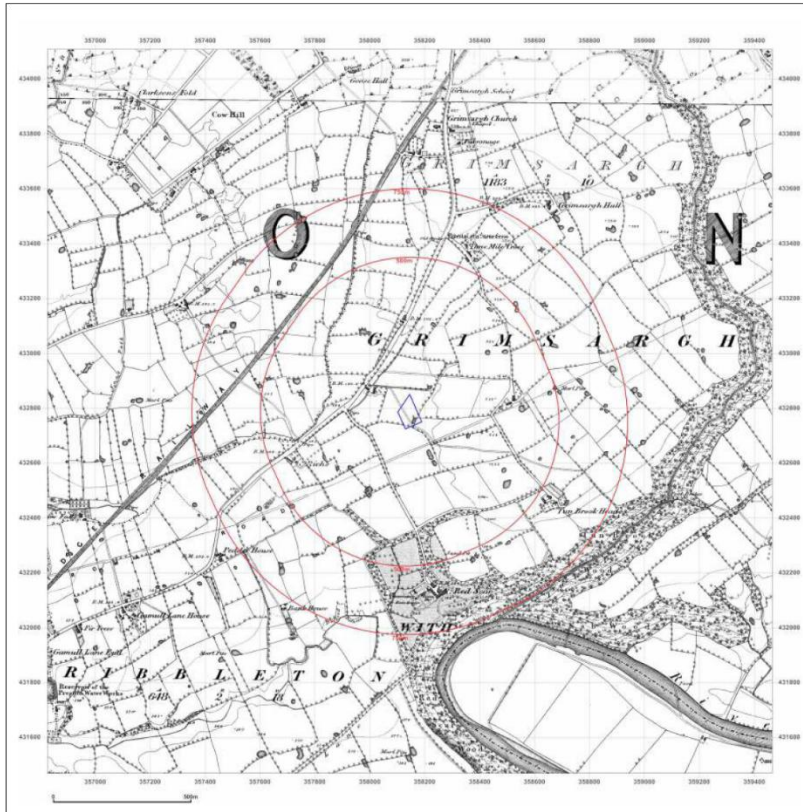
Contact us with any questions at:
info@groundsure.com
08444 159 000


Date: 15 May 2020



SMALL SCALE SURVEY PLANS

Site Condition Report





Site Details:
 Units 21 & 22 Roman Way,
 Preston, PR2 5BB


Client Ref: 4199
Report Ref: CMAPS-CM-876519-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: County Series


Map date: 1846-1849

Scale: 1:10,560


Printed at: 1:10,560




Surveyed 1844
 Revised N/A
 Edition 1846
 Copyright N/A
 Levelled N/A



Surveyed 1847
 Revised N/A
 Edition 1849
 Copyright N/A
 Levelled N/A

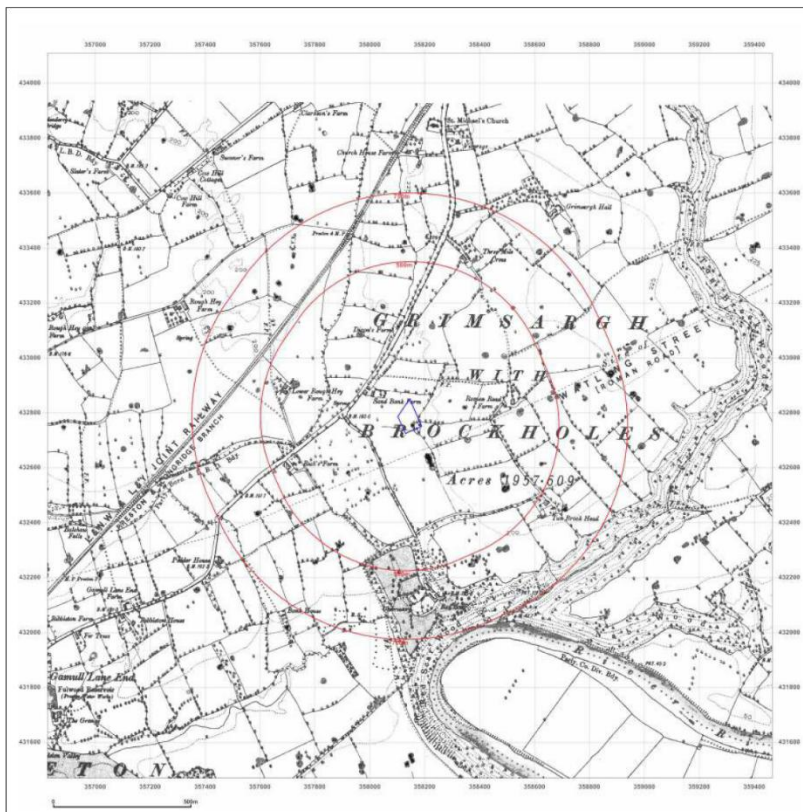
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Site Details:
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 Preston, PR2 5BB


Client Ref: 4199
Report Ref: CMAPS-CM-876519-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: County Series


Map date: 1892


Scale: 1:10,560


Printed at: 1:10,560



Surveyed 1892
 Revised 1892
 Edition N/A
 Copyright N/A
 Levelled N/A



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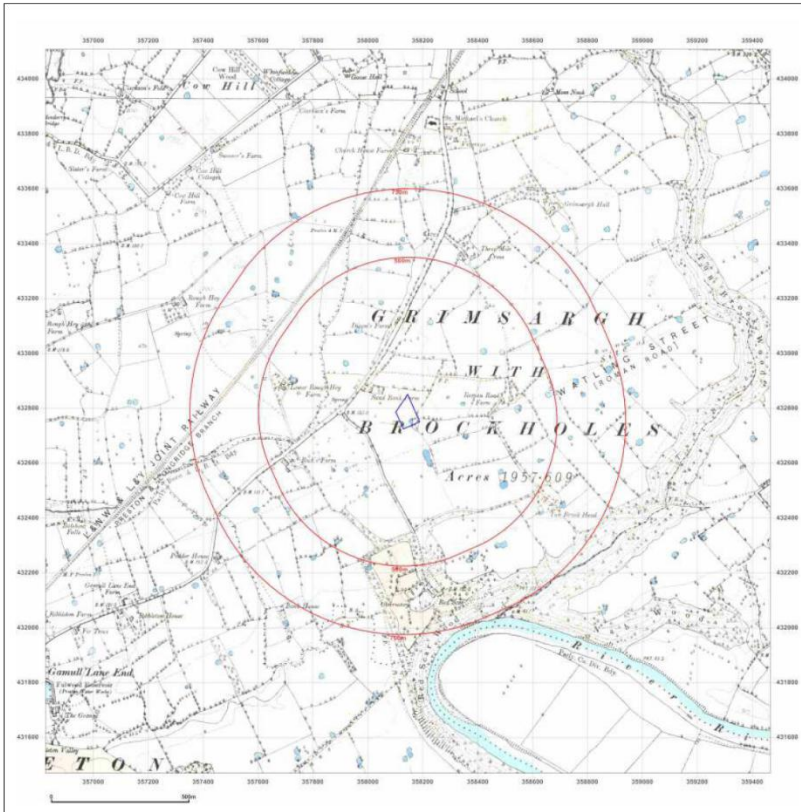
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Site Condition Report






Site Details:
Units 21 & 22 Roman Way,
Preston, PR2 5BB


Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HS
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1892
Scale: 1:10,560
Printed at: 1:10,560




Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



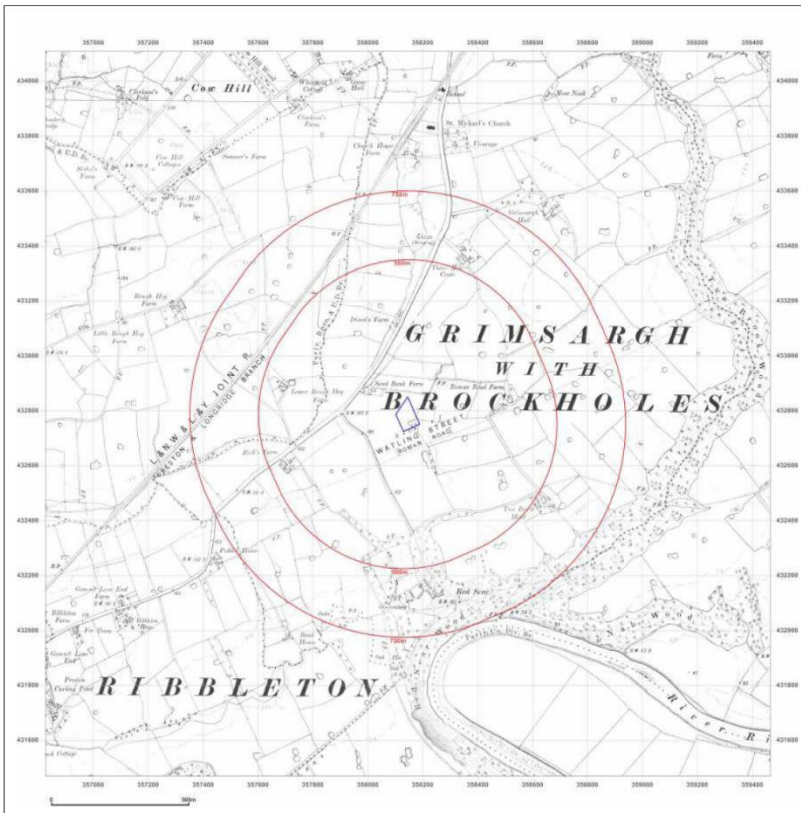
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HS
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1910
Scale: 1:10,560
Printed at: 1:10,560




Surveyed 1844
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A



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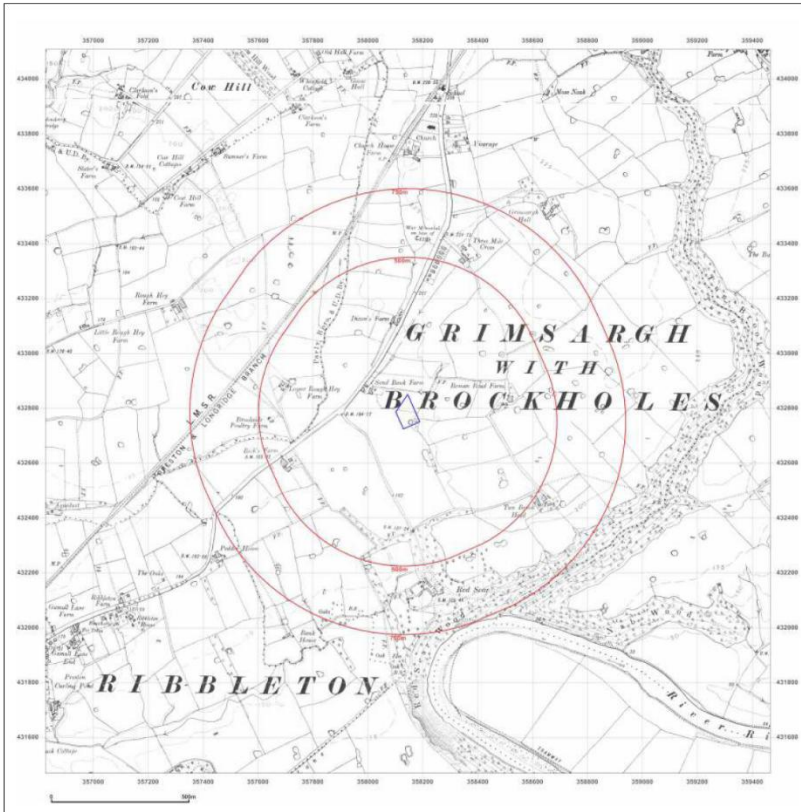



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Site Condition Report





Site Details:
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Client Ref: 4199
Report Ref: CMAPS-CM-876519-4199-150520-HIS
Grid Ref: 358144, 432788

Map Name: County Series

Map date: 1928-1932

Scale: 1:10,560


Printed at: 1:10,560



Surveyed 1844
 Revised 1932
 Edition N/A
 Copyright N/A
 Levelled N/A

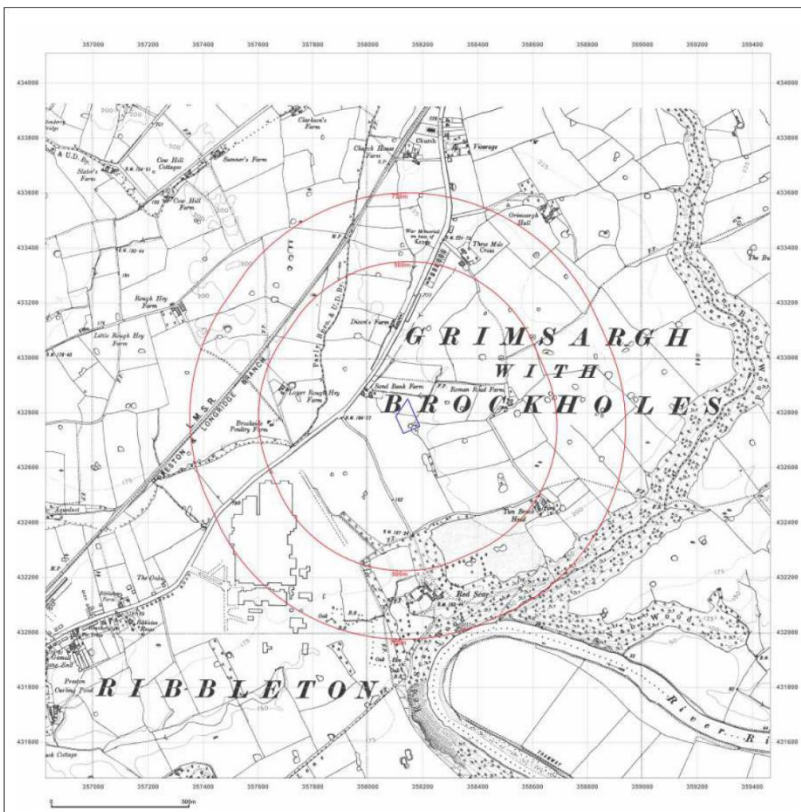
Surveyed 1844
 Revised 1929
 Edition N/A
 Copyright N/A
 Levelled N/A


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Client Ref: 4199
Report Ref: CMAPS-CM-876519-4199-150520-HIS
Grid Ref: 358144, 432788

Map Name: County Series

Map date: 1938

Scale: 1:10,560


Printed at: 1:10,560



Surveyed 1844
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1844
 Revised 1929
 Edition N/A
 Copyright N/A
 Levelled N/A

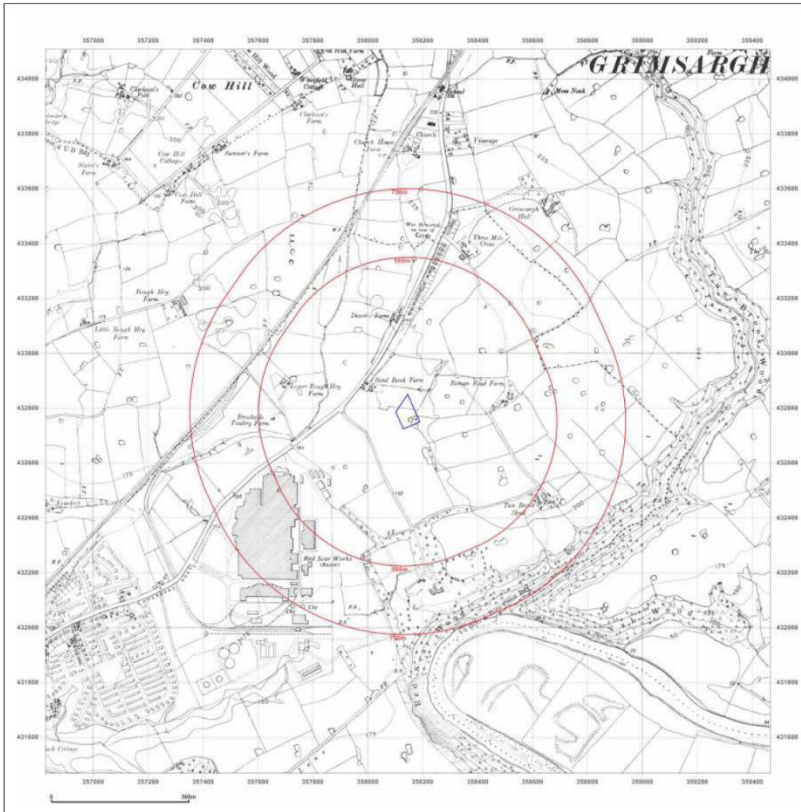
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788


Map Name: Provisional
Map date: 1951
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1951
 Revised 1951
 Edition N/A
 Copyright N/A
 Levelled N/A



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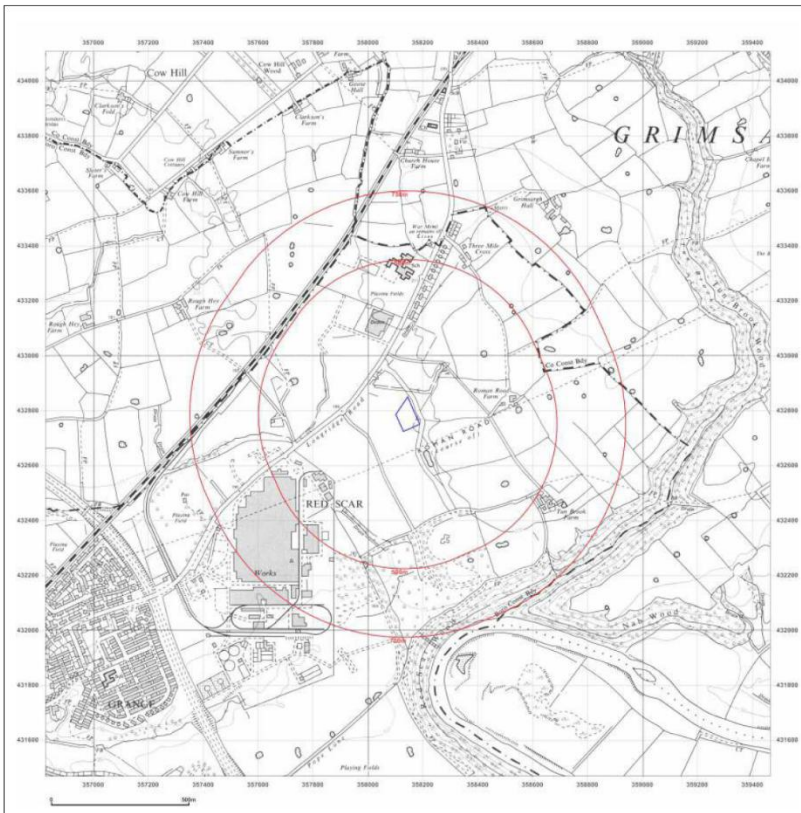



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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788


Map Name: Provisional
Map date: 1965
Scale: 1:10,560
Printed at: 1:10,560



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



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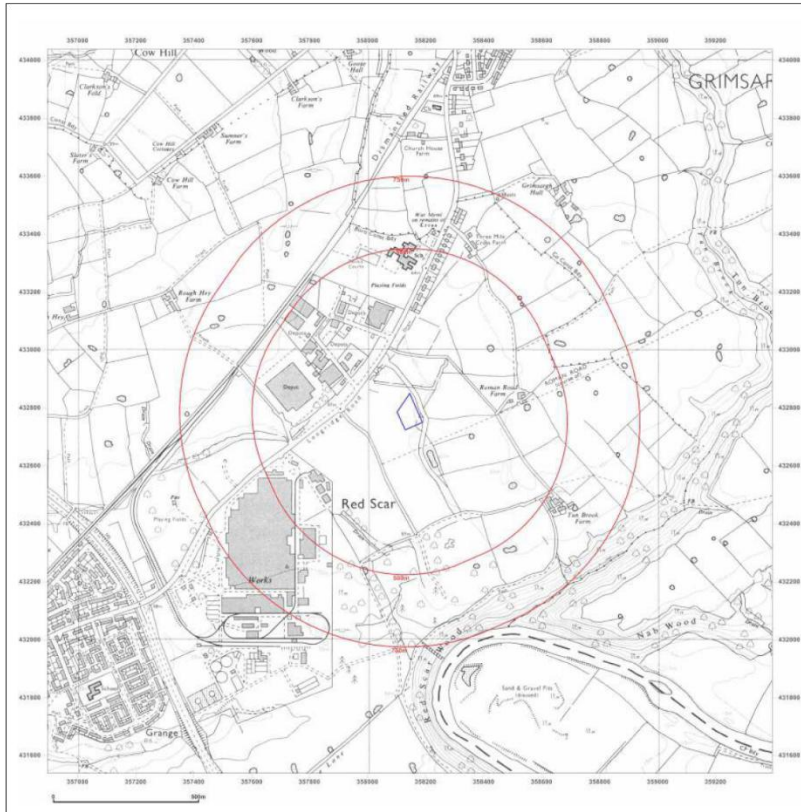
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788


Map Name: National Grid
Map date: 1978
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1974
 Revised 1978
 Edition N/A
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 Licensed N/A



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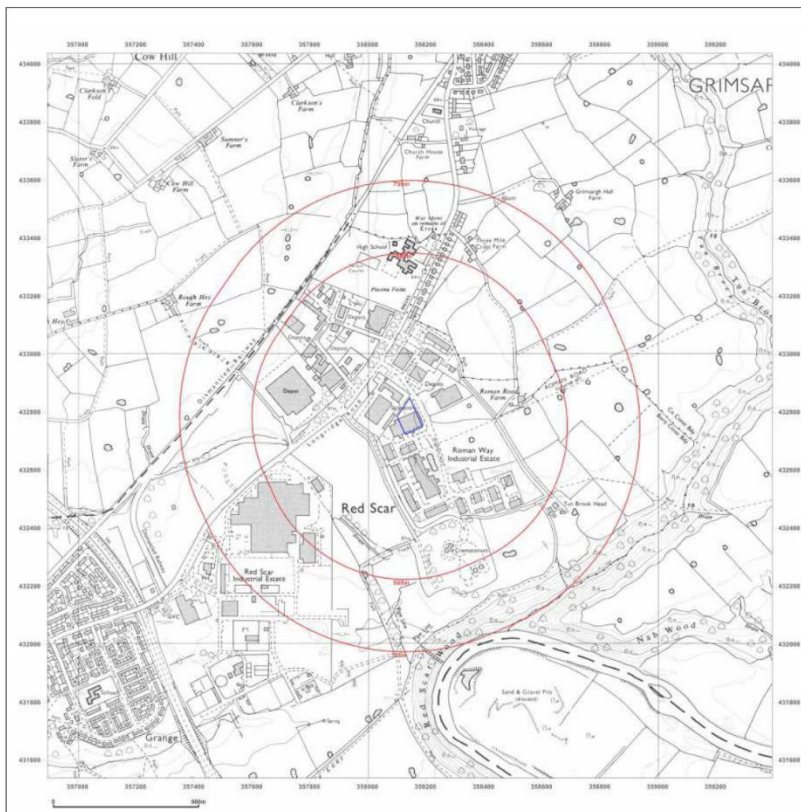



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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788


Map Name: National Grid
Map date: 1992
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1990
 Revised 1992
 Edition N/A
 Copyright N/A
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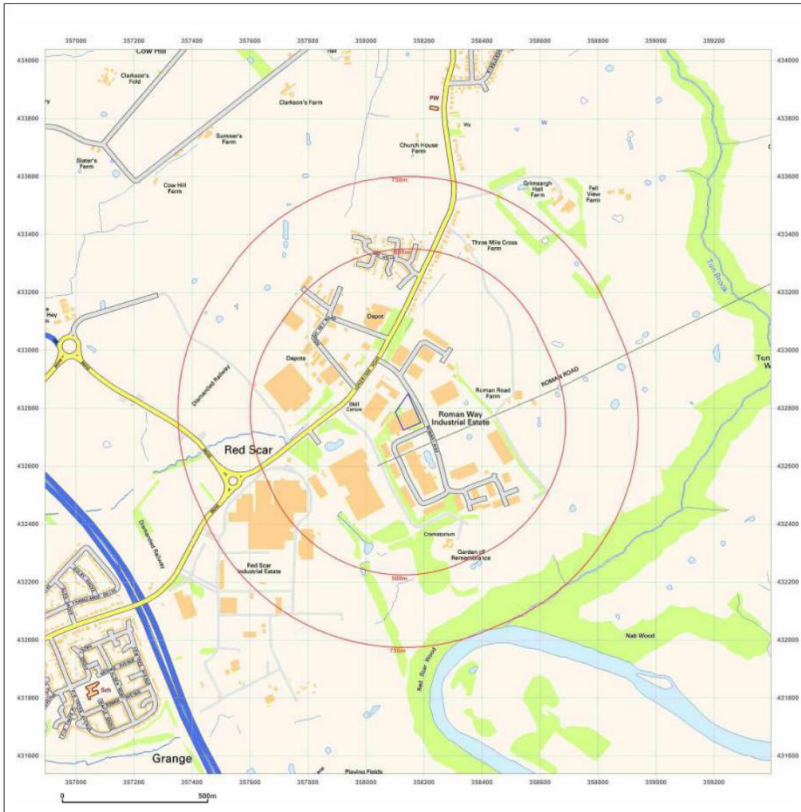
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520-HIS
Grid Ref: 358144, 432788

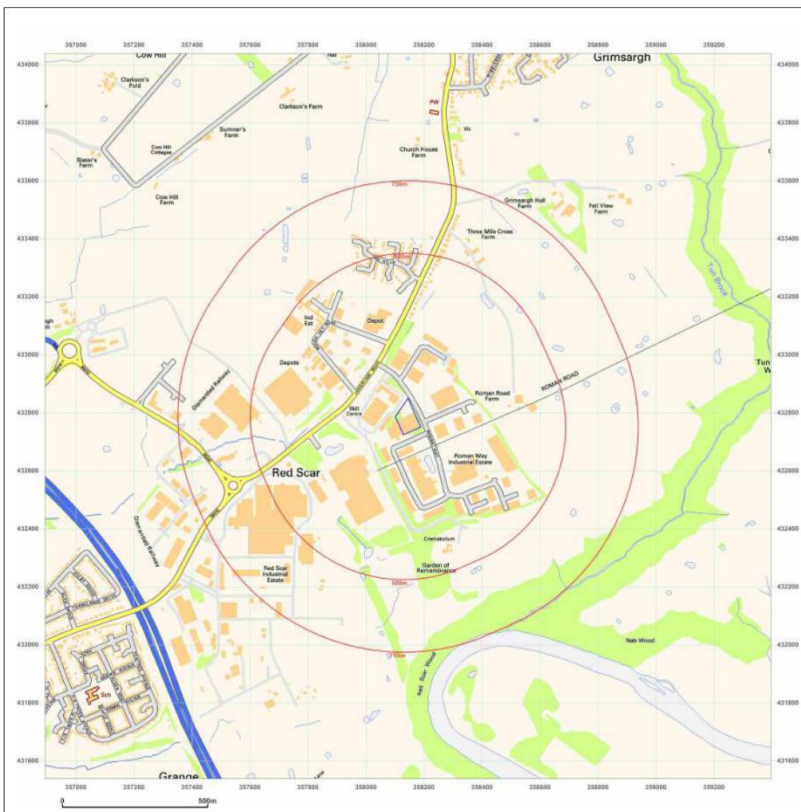
Map Name: National Grid
Map date: 2001
Scale: 1:10,000
Printed at: 1:10,000






2001

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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520-HIS
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 2010
Scale: 1:10,000
Printed at: 1:10,000

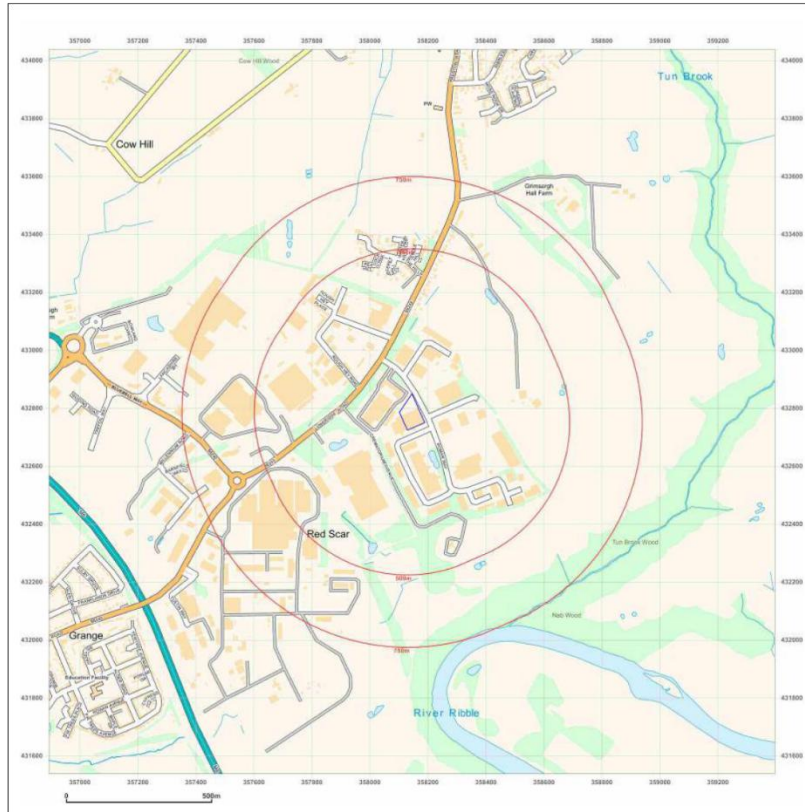




2010

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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 2020
Scale: 1:10,000
Printed at: 1:10,000

2020

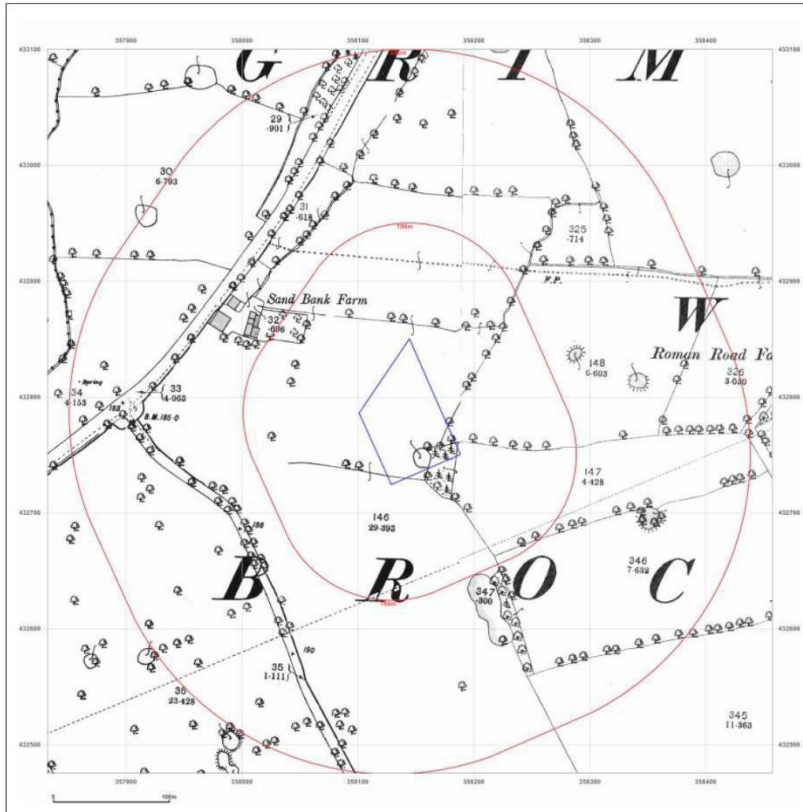
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LARGE SCALE SURVEY PLANS

Site Condition Report






Site Details:
Units 21 & 22 Roman Way,
Preston, PR2 5BB

Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1892
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

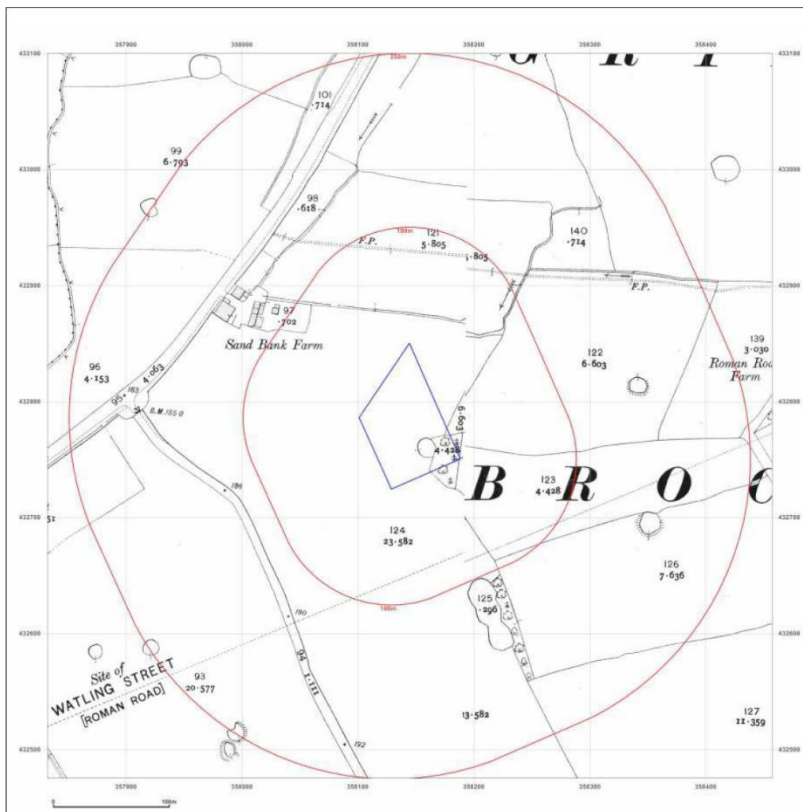
Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A


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Site Details:
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1912
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

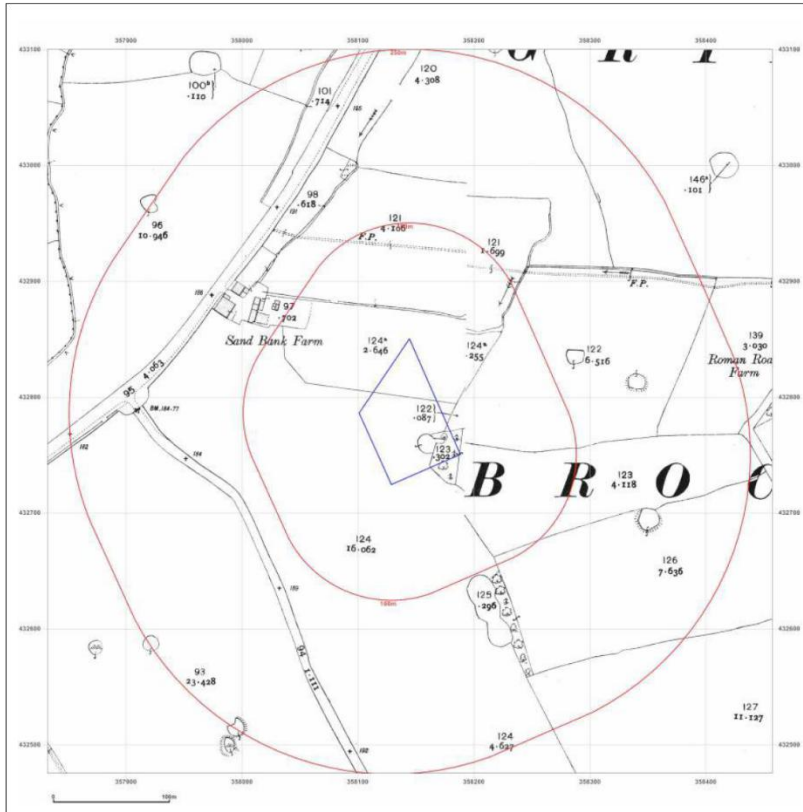
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Site Details:
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 Preston, PR2 5BB

Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1932
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1932
 Revised 1932
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1932
 Revised 1932
 Edition N/A
 Copyright N/A
 Levelled N/A

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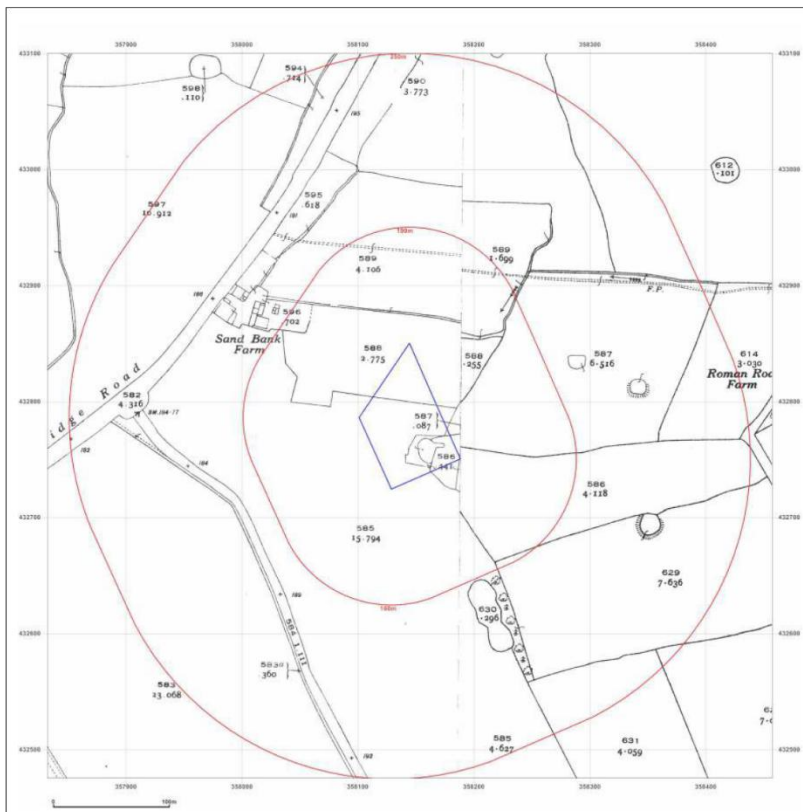
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Site Details:
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788

Map Name: County Series
Map date: 1938-1939
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1938
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

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

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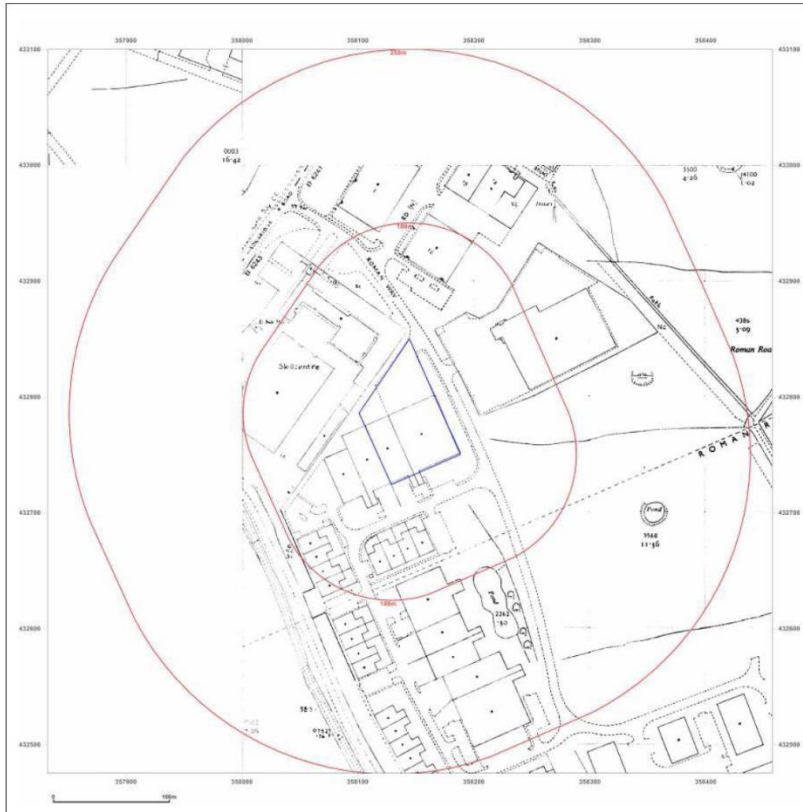
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Site Details:
 Units 21 & 22 Roman Way,
 Preston, PR2 5BB


Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1961
Scale: 1:2,500
Printed at: 1:2,500




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

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1961
 Levelled 1961



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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788


Map Name: National Grid
Map date: 1978-1981
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1978
 Revised 1979
 Edition N/A
 Copyright 1980
 Levelled 1961


Surveyed 1979
 Revised 1979
 Edition N/A
 Copyright 1980
 Levelled 1961

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1980
 Levelled N/A



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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1980-1992
Scale: 1:2,500
Printed at: 1:2,500




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

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



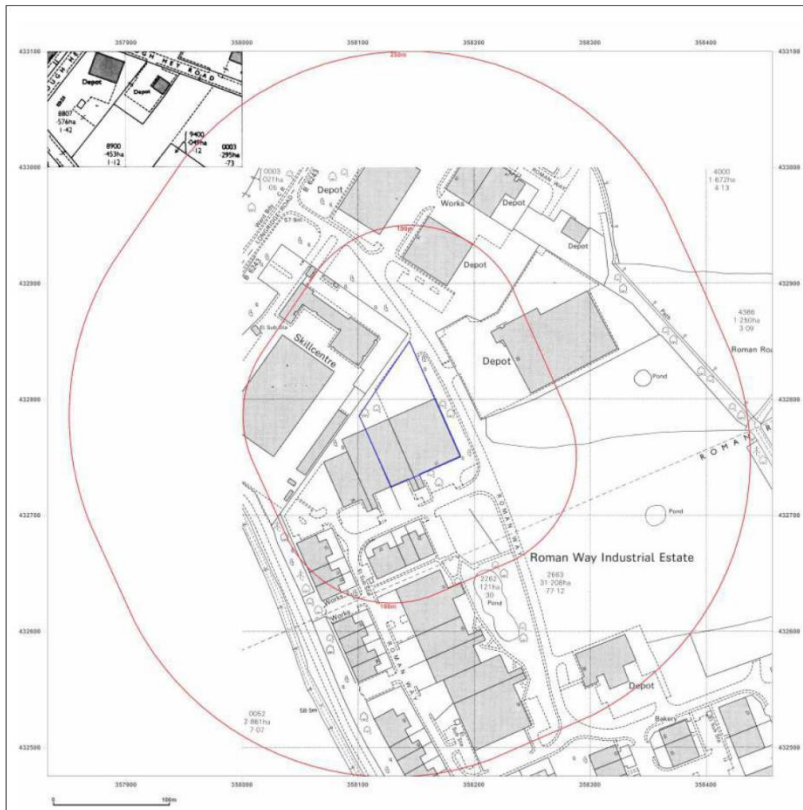
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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1985-1999
Scale: 1:2,500
Printed at: 1:2,500




Surveyed 1961
 Revised 1989
 Edition N/A
 Copyright 1989
 Levelled 1961

Surveyed 1960
 Revised 1985
 Edition N/A
 Copyright 1986
 Levelled 1961



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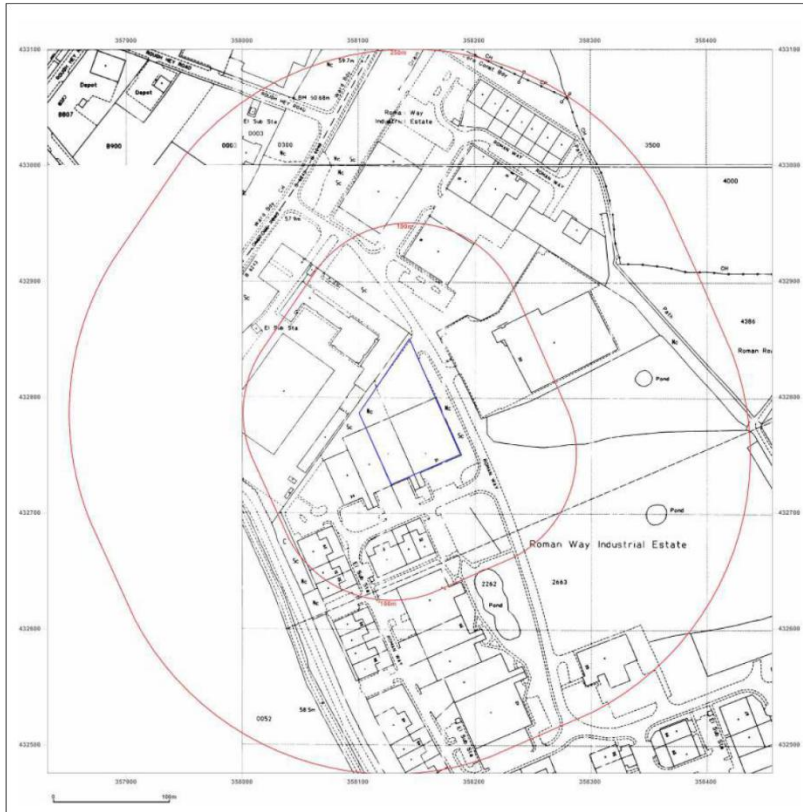



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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500



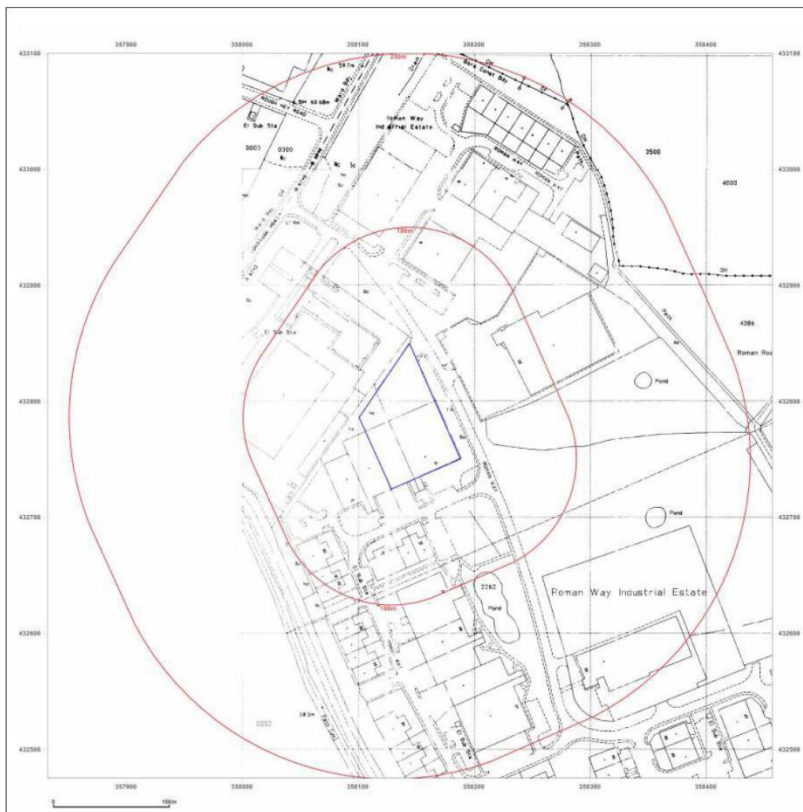
Surveyed 1993
 Revised N/A
 Edition N/A
 Copyright 1993
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Surveyed 1993
 Revised N/A
 Edition N/A
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 Levelled N/A

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Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520/H/S
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1993-1995
Scale: 1:2,500
Printed at: 1:2,500



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

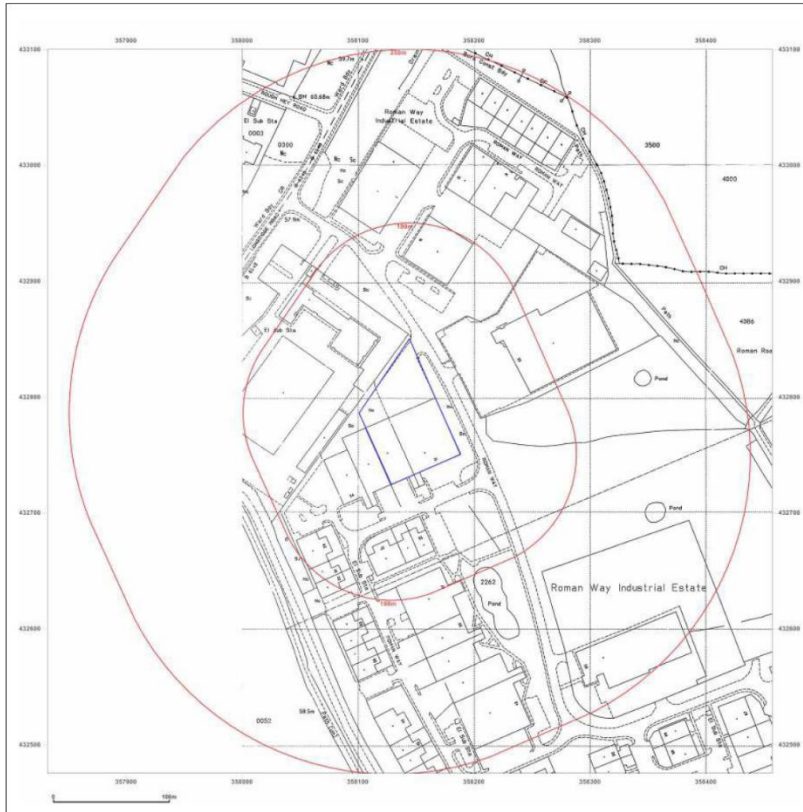
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Site Condition Report






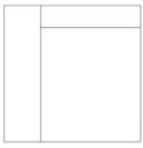
Site Details:
 Units 21 & 22 Roman Way,
 Preston, PR2 5BB

Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788

Map Name: National Grid
Map date: 1993-1995
Scale: 1:2,500
Printed at: 1:2,500




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



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


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 **Centre Maps Live**
 www.centremapslive.com
 groundsure@centremaps.com

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 Production date: 15 May 2020

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







Site Details:
 Units 21 & 22 Roman Way,
 Preston, PR2 5BB

Client Ref: 4199
Report Ref: CMAPS-CM-876518-4199-150520HIS
Grid Ref: 358144, 432788


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



2003



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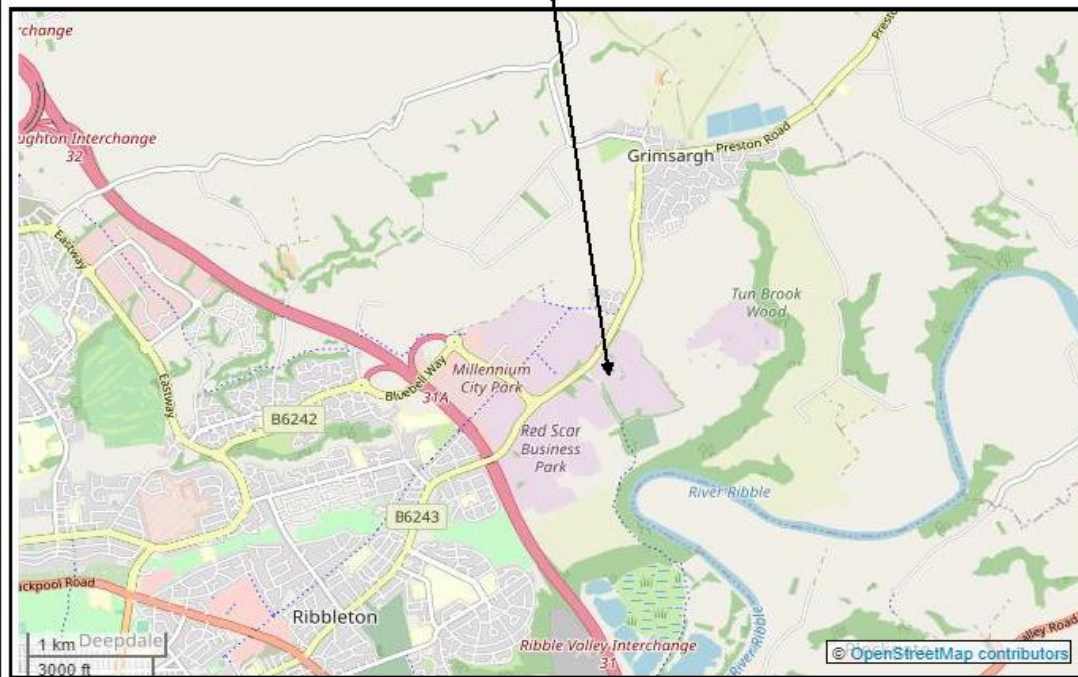
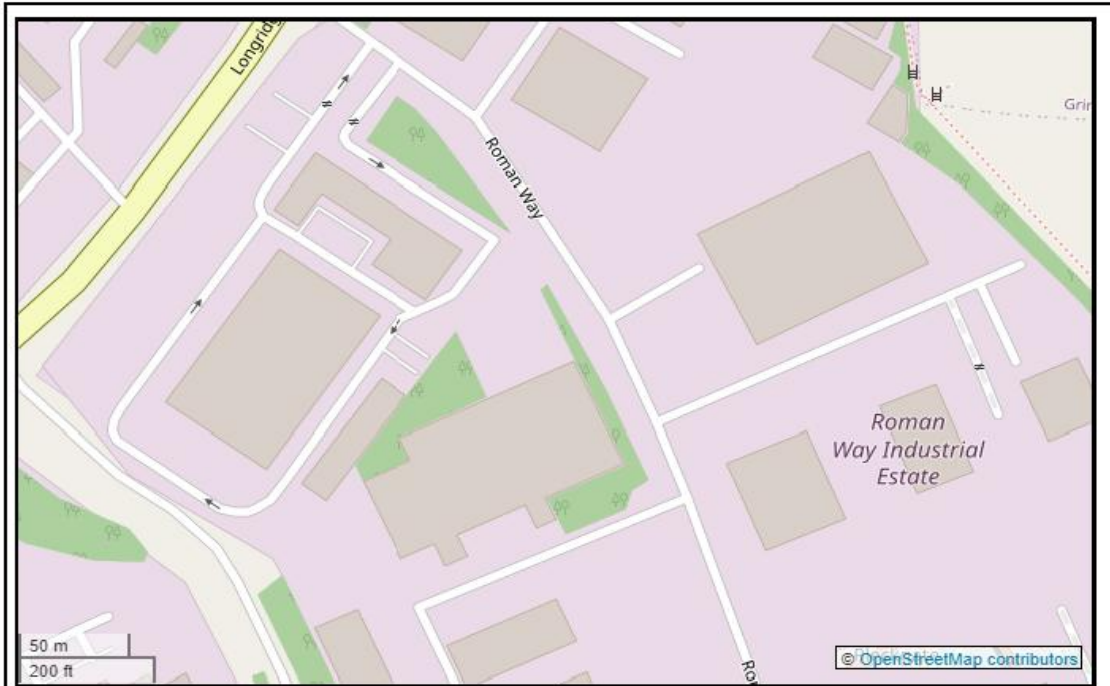
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 Production date: 15 May 2020

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

FIGURES

Site Condition Report

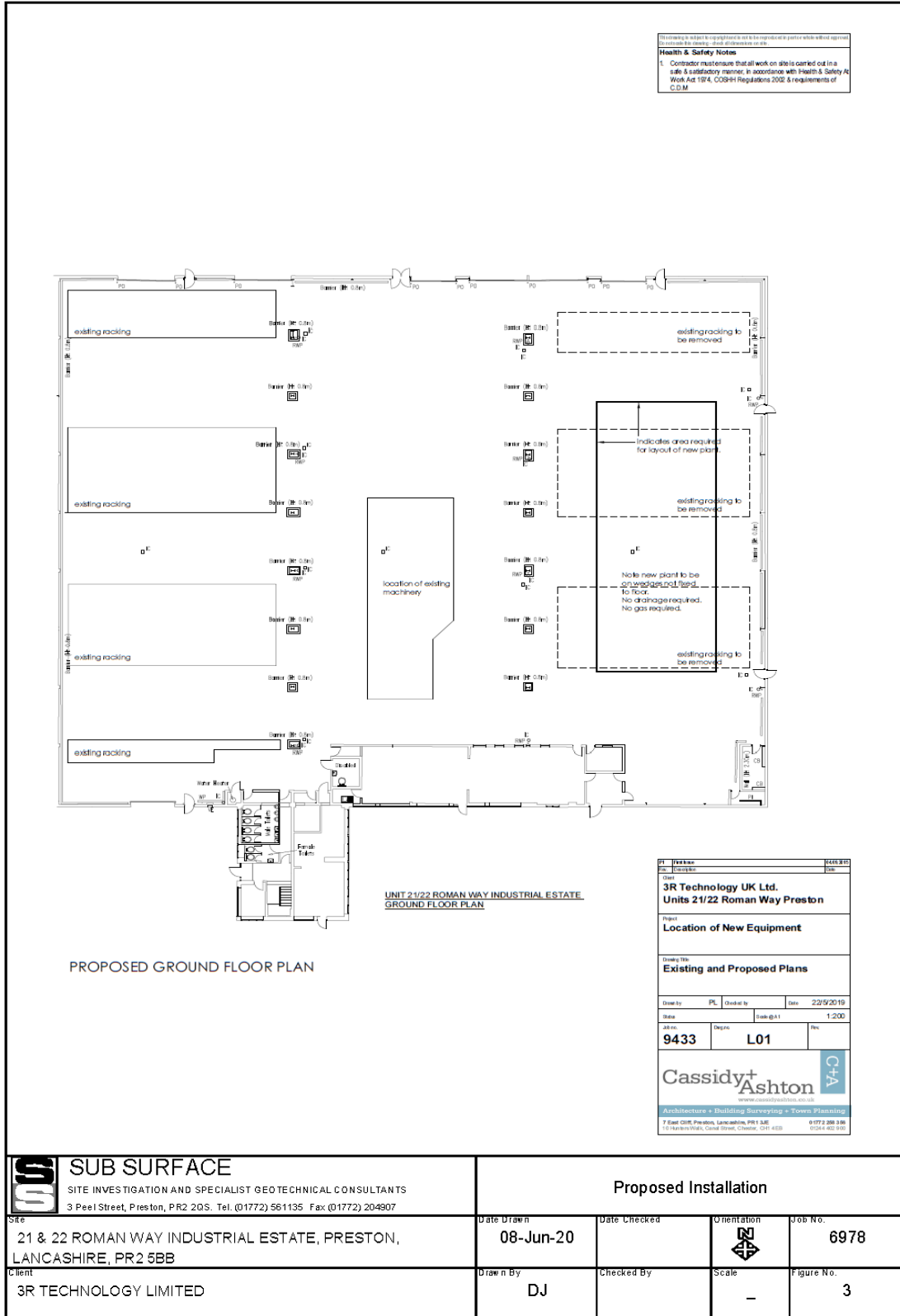


 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Site Location			
	Date Drawn 08/06/2020	Date Checked	Orientation 	Job No. 6978
SITE 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Drawn By DJ	Checked By	Scale As Shown	Figure No. 1
CLIENT 3R TECHNOLOGY LIMITED				

Site Condition Report

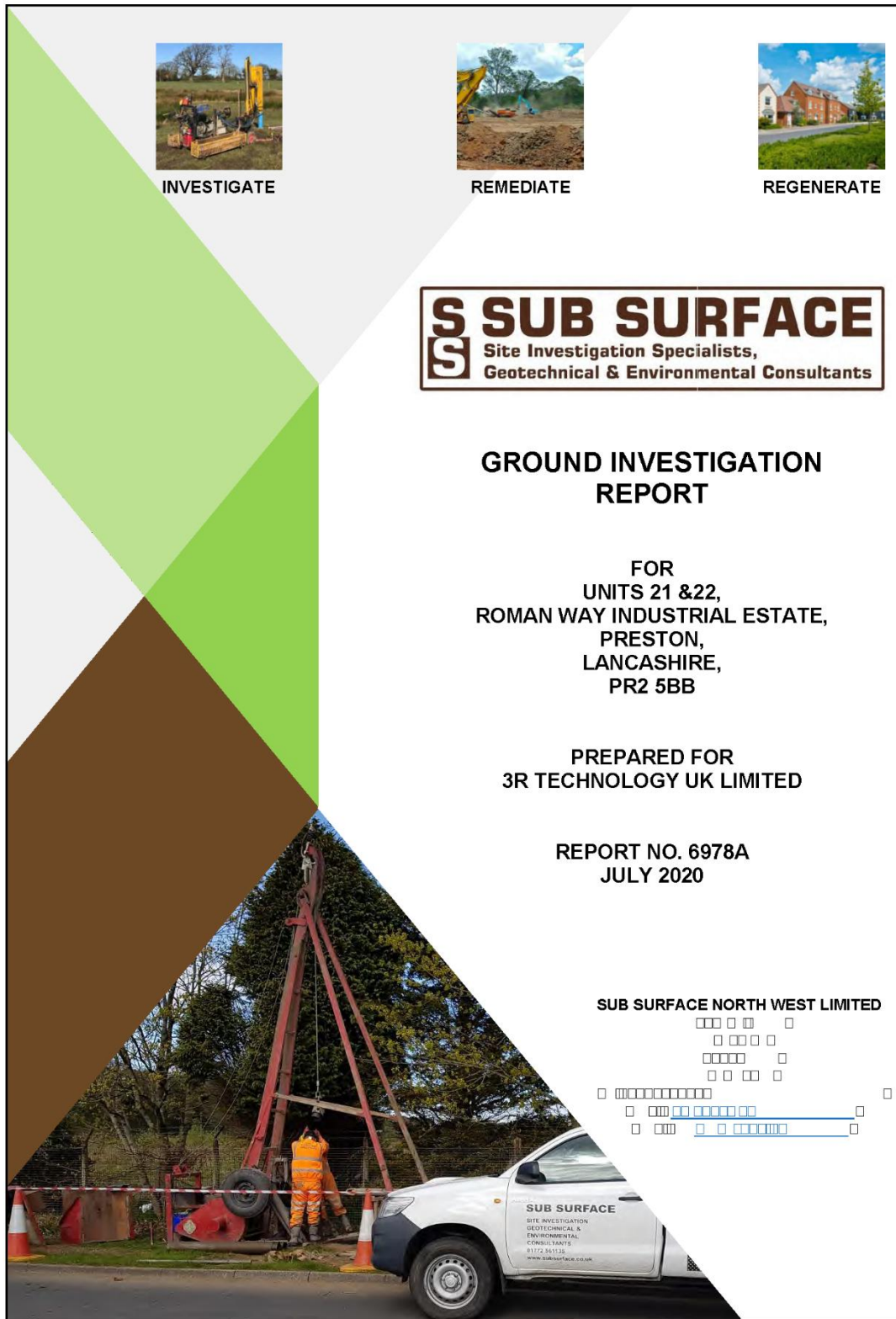



Site Condition Report





Site Condition Report

Appendix 3 Phase 2 Contaminated Land Report (Site Condition)




INVESTIGATE


REMEDiate


REGENERATE

S SUB SURFACE
Site Investigation Specialists,
Geotechnical & Environmental Consultants

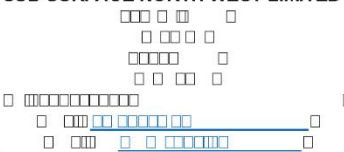
**GROUND INVESTIGATION
REPORT**

FOR
UNITS 21 & 22,
ROMAN WAY INDUSTRIAL ESTATE,
PRESTON,
LANCASHIRE,
PR2 5BB

PREPARED FOR
3R TECHNOLOGY UK LIMITED

REPORT NO. 6978A
JULY 2020


SUB SURFACE NORTH WEST LIMITED



SUB SURFACE
SITE INVESTIGATION
GEOCHEMICAL &
ENVIRONMENTAL
CONSULTANTS
01772 541515
www.subsurface.co.uk

INSITU TEST RESULTS

Site Condition Report

 SUB SURFACE <small>SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907</small>						Standard Penetration Test Results						
Site : UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON Client : 3R TECHNOLOGY LIMITED Engineer:						Job Number 6978A		Sheet 1 / 1				
Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
M3	1.00	1.15	1.45	SPT	2	2	2	2	2	2	N=8	
M3	2.00	2.15	2.45	SPT	1	1	2	2	2	2	N=8	
M3	3.00	3.15	3.45	SPT	2	1	2	2	3	3	N=10	
M3	4.00	4.15	4.45	SPT	2	2	2	3	3	4	N=12	
M5	1.00	1.15	1.45	SPT	1	2	1	2	1	2	N=6	
M5	2.00	2.15	2.45	SPT	2	1	1	1	2	1	N=5	
M5	3.00	3.15	3.45	SPT	1	1	1	2	2	3	N=8	
M5	4.00	4.15	4.45	SPT	3	2	3	4	5	5	N=17	

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CONTAMINATION ANALYSIS RESULTS



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

Final Report

Report No.: □□□□

Initial Date of Issue: □□□□

Client □□□□□

Client Address: □□□□□
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Contact(s): □□□ □□□

Project □□□□□□□□ □□□ □□ □□
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Quotation No.:

Date Received: □□□□□□

Order No.:

Date Instructed: □□□□□□

No. of Samples: □

Turnaround (Wkdays): □

Results Due: □□□□□

Date Approved: □□□□□

Approved By:

Details: □ □□□ □□□□□□□□ □□□□

Site Condition Report

Report Information

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Sample Deviation Codes

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Sample Retention and Disposal

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Chemtest

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

Final Report

Report No.: □□□□

Initial Date of Issue: □□□□

Client □□□□□

Client Address: □□□□□
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Contact(s): □□□ □□□

Project □□□□□□□□ □□□ □□ □□
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Quotation No.:

Date Received: □□□□□□

Order No.:

Date Instructed: □□□□□□

No. of Samples: □

Turnaround (Wkdays): □

Results Due: □□□□□

Date Approved: □□□□□

Approved By:

Details: □ □□□ □□□□□□□□ □□□

Site Condition Report

Report Information

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Sample Deviation Codes

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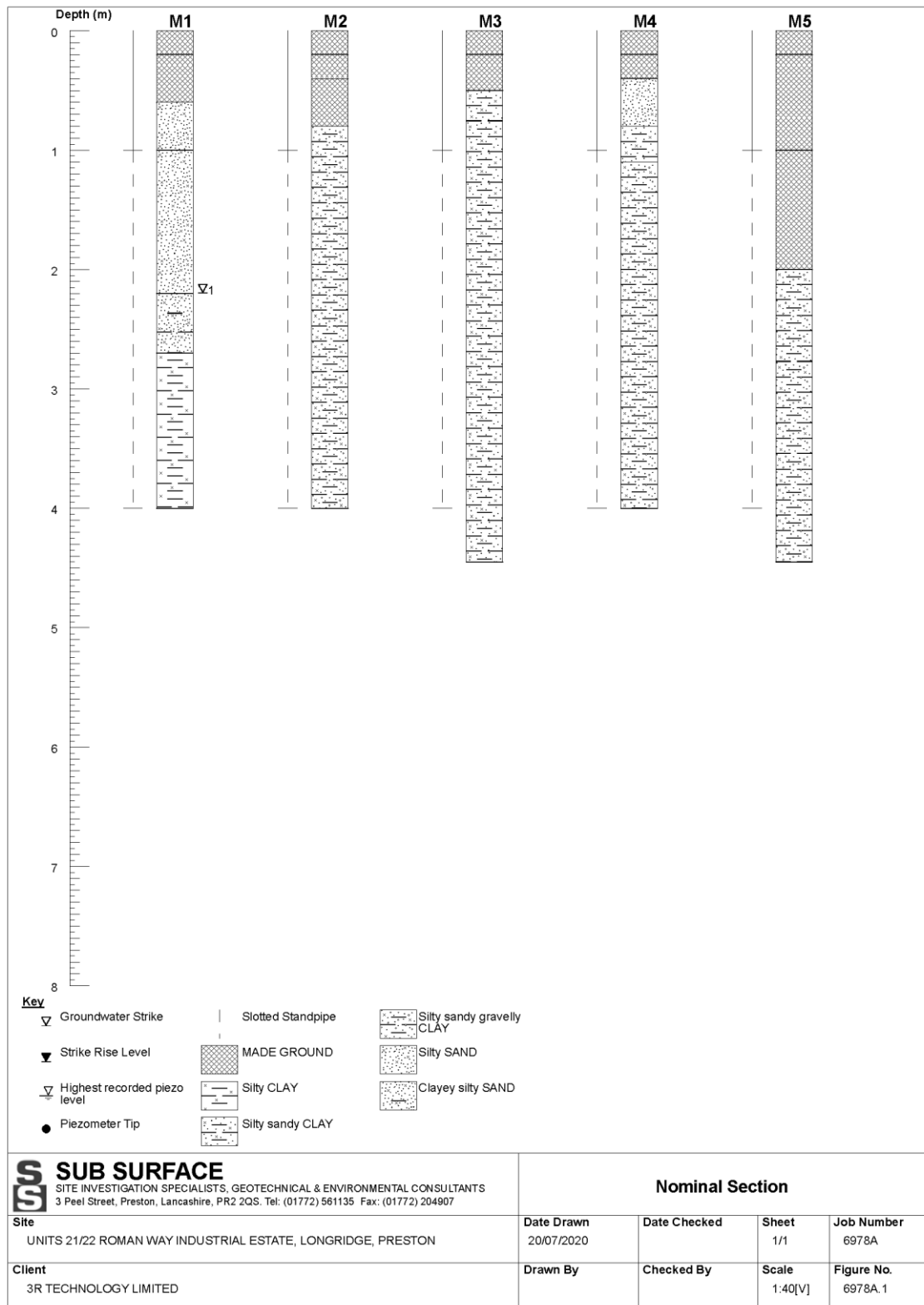
Sample Retention and Disposal

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Site Condition Report



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MINI BOREHOLE RECORD SHEETS

Site Condition Report

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON			Borehole Number M1		
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD)		Client 3R TECHNOLOGY LIMITED		Job Number 6978A			
		Location AS PLAN		Dates 11/06/2020		Engineer		Sheet 1/1			
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.20-0.60	B					(0.20)	MADE GROUND: concrete surfacing (drillers description).				
						0.20	MADE GROUND: light brown slightly clayey slightly sandy fine to coarse gravel sized fragments of stone.				
0.60-1.00	B					(0.40)					
						0.60	Brown slightly silty fine to coarse SAND with occasional pockets of silty clay.				
1.00-2.00	C			1.00m to 2.00m - 100% recovery		1.00	Light brown slightly silty fine to medium SAND.				
						(1.20)					
2.00-3.00	C			2.00m to 3.00m - 100% recovery Wet(1) at 2.20m.		2.20	Brown slightly clayey slightly silty fine to medium SAND with occasional pockets of silty clay.				
						(0.50)					
						2.70	Soft brown silty CLAY.				
3.00-4.00	C			HV@2.80m, c=32kPa 3.00m to 4.00m - recovered as bulk		(1.30)					
						4.00	Complete at 4.00m				
Remarks Hand dug inspection pit from GL to 1.00m to check for services. C = Plastic lined core sample Core diameter : 84mm to 2.00m and 74mm to 3.00m HV = Hand Shear Vane test On completion backfilled with arisings and installed a 50mm dia slotted standpipe with a gas valve and a gravel surroud to 4.00m, a Bentorie seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25		Logged By TDC/SJ	
								Figure No. 6978A.M1			


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Site Condition Report

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON			Borehole Number M2	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD)		Client 3R TECHNOLOGY LIMITED			Job Number 6978A		
		Location AS PLAN		Dates 11/06/2020		Engineer			Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.20-0.40	B					(0.20)	MADE GROUND: concrete surfacing (drillers description).				
0.40-0.80	B					0.20 (0.20) 0.40	MADE GROUND: cream slightly silty slightly sandy fine to coarse gravel sized fragments of stone and concrete with low cobble sized fragments of concrete.				
0.80-1.00	B					(0.40)	MADE GROUND: dark brown slightly silty slightly sandy fine to coarse gravel sized fragments of stone, concrete and brick with low cobble sized fragments of stone and concrete.				
1.00-2.00	C			1.00m to 2.00m - 100% recovery HV@1.30m, c=78kPa HV@1.70m, c=84kPa		0.80	Firm high strength becoming medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel is subrounded fine to coarse sandstone, siltstone and quartz.				
2.00-3.00	C			2.00m to 3.00m - 80% recovery HV@2.40m, c=78kPa HV@2.70m, c=56kPa		(3.20) below 2.00m : no gravel				
3.00-4.00	C			3.00m to 4.00m - 100% recovery HV@3.40m, c=66kPa HV@3.80m, c=68kPa 11/06/2020:DRY		4.00 below 2.70m : medium strength				
										Complete at 4.00m	
Remarks Hand dug inspection pit from GL to 1.00m to check for services. C = Plastic lined core sample Core diameter : 84mm to 2.00m, 74mm to 3.00m and 64mm to 4.00m HV = Hand Shear Vane test On completion backfilled with arisings and installed a 50mm dia slotted standpipe with a gas valve and a gravel surroud to 4.00m, a Bentornie seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25		Logged By TDC/SJ	
								Figure No. 6978A.M2			


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Site Condition Report

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON			Borehole Number M3	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD)		Client 3R TECHNOLOGY LIMITED		Job Number 6978A		
		Location AS PLAN		Dates 11/06/2020		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.20-0.50	B					(0.20)	MADE GROUND: concrete surfacing (drillers description).			
0.50-1.00	B					0.20 (0.30) 0.50	MADE GROUND: cream and grey slightly silty slightly sandy fine to coarse gravel sized fragments of stone with low cobble sized fragments of stone. Firm low strength becoming medium strength brown slightly sandy silty CLAY.			
1.00-1.45 1.00-2.00 1.00-1.45	D C SPT N=8			1.00m to 2.00m - 80% recovery 2,2/2,2,2,2 HV@1.60m, c=62kPa		 at 1.60m : medium strength			
2.00-2.45 2.00-3.00 2.00-2.45	D C SPT N=8			2.00m to 3.00m - 100% recovery 1,1/2,2,2,2 HV@2.60m, c=48kPa HV@2.80m, c=56kPa		(3.95) below 2.60m : firm medium strength			
3.00-3.45 3.00-4.00 3.00-3.45	D C SPT N=10			3.00m to 4.00m - 90% recovery 2,1/2,2,3,3 HV@3.70m, c=50kPa		 at 4.15m : medium strength			
4.00-4.45 4.00-4.45	SPT N=12 D			2,2/2,3,3,4 11/06/2020: DRY		4.45	Complete at 4.45m			
Remarks Hand dug inspection pit from GL to 1.00m to check for services. C = Plastic lined core sample Core diameter : 84mm to 2.00m, 74mm to 3.00m and 64mm to 4.00m HV = Hand Shear Vane test On completion backfilled with arisings and installed a 50mm dia slotted standpipe with a gas valve and a gravel surroud to 4.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25	Logged By TDC/SJ	
								Figure No. 6978A.M3		


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Site Condition Report

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON			Borehole Number M4	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD)		Client 3R TECHNOLOGY LIMITED		Job Number 6978A			
		Location AS PLAN		Dates 11/06/2020		Engineer		Sheet 1/1			
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.20-0.40	B					(0.20)	MADE GROUND: concrete surfacing (drillers description).				
0.40-0.80	B					0.20 (0.20) 0.40	MADE GROUND: cream slightly silty sandy fine to coarse gravel sized fragments of stone with low cobble sized fragments of stone.				
0.80-1.00	B					(0.40) 0.80	Brown slightly silty fine to medium SAND with many pockets of silty clay.				
1.00-2.00	C			1.00m to 2.00m - 90% recovery		(0.30) 1.10	Firm brown slightly sandy silty CLAY.				
2.00-3.00	C			HV@1.40m, c=120+kPa HV@1.70m, c=120+kPa 2.00m to 3.00m - 100% recovery		(2.90)	Firm medium to high strength brown slightly gravelly slightly sandy silty CLAY. Gravel is subrounded fine to coarse sandstone, siltstone and quartz.				
3.00-4.00	C			HV@2.30m, c=62kPa HV@2.70m, c=72kPa 3.00m to 4.00m - 100% recovery		4.00 below 2.00m : gravel				
				HV@3.30m, c=62kPa HV@3.70m, c=78kPa 11/06/2020:DRY			Complete at 4.00m				
Remarks Hand dug inspection pit from GL to 1.00m to check for services. C = Plastic lined core sample Core diameter : 84mm to 2.00m, 74mm to 3.00m and 54mm to 4.00m HV = Hand Shear Vane test On completion backfilled with arisings and installed a 50mm dia slotted standpipe with a gas valve and a gravel surroud to 4.00m, a Bentornie seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25		Logged By TDC/SJ	
								Figure No. 6978A.M4			

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Site Condition Report

 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON			Borehole Number M5	
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD)		Client 3R TECHNOLOGY LIMITED		Job Number 6978A		
		Location AS PLAN			Dates 11/06/2020		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.20-1.00	B					(0.20)	MADE GROUND: concrete surfacing.				
						0.20	MADE GROUND: cream slightly silty sandy fine to coarse gravel sized fragments of stone.				
						(0.80)					
1.00-1.45	D			1.00m to 2.00m - recovered as bulk 1,2/1,2,1,2		1.00	MADE GROUND: brown slightly silty slightly sandy subrounded to subangular fine to coarse gravel sized fragments of stone (sandstone) with high cobble sized fragments of stone.				
1.00-2.00	C					(1.00)					
1.00-1.45	SPT N=6										
2.00-2.45	D			2.00m to 3.00m - 100% recovery 2,1/1,2,2,1		2.00	Soft low strength becoming firm medium strength brown slightly gravelly slightly sandy silty CLAY with occasional sand bands. Gravel is subrounded fine to coarse sandstone, siltstone and quartz.				
2.00-3.00	C										
2.00-2.45	SPT N=5										
				HV@2.70m, c=60kPa		 below 2.70m : firm medium strength locally low strength				
3.00	C			3.00m to 4.00m - 80% recovery 1,1/1,2,2,3		(2.45)					
3.00-3.45	D										
3.00-3.45	SPT N=8										
4.00-4.45	SPT N=17			HV@3.80m, c=58kPa							
4.00-4.45	D			3,2/3,4,5,5							
				11/06/2020:DRY		4.45	Complete at 4.45m				


Remarks
 Hand dug inspection pit from GL to 1.00m to check for services.
 C = Plastic lined core sample
 Core diameter : 84mm to 3.00m and 74mm to 4.00m
 HV = Hand Shear Vane test
 On completion backfilled with arisings and installed a 50mm dia slotted standpipe with a gas valve and a gravel surroud to 4.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.

Scale (approx) 1:25
 Logged By TDC/SJ
 Figure No. 6978A.M5

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HAND DUG TRIAL PIT RECORD SHEETS

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Excavation Method		Dimensions		Ground Level (mOD)		Client		Job Number			
HAND DUG		0.30m x 0.30m				3R TECHNOLOGY LIMITED		6978A			
		Location		Dates		Engineer		Sheet			
		AS PLAN		11/06/2020				1/1			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (Thickness) (m)	Description	Legend	Water			
						MADE GROUND: concrete.					
0.30-0.60	D				(0.22)						
0.30-0.60	DA V				0.22	MADE GROUND: light brown and light grey slightly silty sandy fine to coarse gravel sized fragments of stone and brick.					
					(0.31)						
0.60-0.70	D				0.53	MADE GROUND: dark grey slightly gravelly slightly sandy silty clay with occasional sand pockets. Gravel sized fragments are fine to medium stone (reworked).					
0.60-0.70	DA V				(0.22)						
					0.75	Firm brown and grey mottled slightly gravelly slightly sandy silty CLAY with occasional bands and pockets of sand. Gravel comprises subrounded to subangular fine to medium sandstone and quartz.					
0.80-0.90	D				0.75						
0.80-0.90	DA V				(0.25)						
			11/06/2020:DRY		1.00	Complete at 1.00m					
Plan						Remarks					
.						Pit sides remained vertical and stable.					
.						No groundwater encountered.					
.						A = Amber Glass Jar sample					
.						V = Vial sample					
.						On completion backfilled with arisings.					
.						Scale (approx)		Logged By		Figure No.	
.						1:10		TM/SJ		6978A,HD1	












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Excavation Method		Dimensions		Ground Level (mOD)		Client		Job Number	
HAND DUG		0.30m x 0.30m				3R TECHNOLOGY LIMITED		6978A	
		Location		Dates		Engineer		Sheet	
		AS PLAN		11/06/2020				1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (Thickness) (m)	Description	Legend	Water	
0.30-0.40	D				(0.20)	MADE GROUND: concrete.			
0.30-0.40	DA V				0.20	MADE GROUND: cream slightly silty sandy fine to coarse gravel sized fragments of stone with low cobble sized fragments of stone.			
0.70-0.80	D				(0.40)	Firm brown and occasional grey mottled slightly gravelly slightly sandy silty CLAY with some pockets of sand. Gravel is subrounded to subangular fine to medium sandstone, siltstone and quartz.			
0.70-0.80	DA V				(0.40)				
			11/06/2020:DRY		1.00	Complete at 1.00m			
Plan						Remarks			
.						Pit sides remained vertical and stable. No groundwater encountered. A = Amber Glass Jar sample V = Vial sample On completion backfilled with arisings.			
.						Scale (approx)		Logged By	
.						1:10		TM/SJ	
.								Figure No.	
.								6978A,HD2	


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Excavation Method		Dimensions		Ground Level (mOD)		Client		Job Number			
HAND DUG		0.30m x 0.30m				3R TECHNOLOGY LIMITED		6978A			
		Location		Dates		Engineer		Sheet			
		AS PLAN		12/06/2020				1/1			
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water			
0.15-0.25	D				(0.15)	MADE GROUND: concrete.					
0.15-0.25	DA V				0.15	MADE GROUND: light brown gravelly slightly silty fine sand with low cobble sized fragments of stone. Gravel sized fragments are fine to coarse stone.					
0.30-0.40	D				(0.10)	MADE GROUND: light grey slightly silty sandy fine to coarse gravel sized fragments of stone.					
0.30-0.40	DA V				0.25 at 0.40m : fabric membrane					
0.50-0.60	B				(0.15)	Brown slightly gravelly slightly silty fine to medium SAND with occasional pockets of clay. Gravel is subrounded to subangular fine to medium sandstone and quartz.					
0.50-0.60	D				0.40						
0.50-0.60	DA V				(0.20)	Firm brown and occasional grey mottled slightly gravelly slightly sandy silty CLAY with occasional dark grey organic patches. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.					
0.70-0.80	D				0.60						
			12/06/2020:		(0.40)						
					1.00	Complete at 1.00m					
Plan						Remarks					
.						Pit sides remained vertical and stable.					
.						No groundwater encountered.					
.						A = Amber Glass Jar sample					
.						V = Vial sample					
.						On completion backfilled with arisings.					
.						Scale (approx)		Logged By		Figure No.	
.						1:10		TM/SJ		6978A,HD4	




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Excavation Method HAND DUG		Dimensions 0.30m x 0.30m		Ground Level (mOD)	Client 3R TECHNOLOGY LIMITED		Job Number 8978A		
		Location AS PLAN		Dates 12/06/2020	Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.30-0.40	D				0.20	MADE GROUND: concrete.			
0.30-0.40	DA V				0.20	MADE GROUND: light grey slightly silty sandy fine to coarse gravel sized fragments of stone with low cobble sized fragments of stone.			
					0.70	... from 0.55m : with medium cobble content			
					0.80	... below 0.90m : pit sides collapsing - unable to progress further			
			12/06/2020:			Complete at 0.90m			
Plan					Remarks Pit sides collapsing from 0.20m. No groundwater encountered. A = Amber Glass Jar sample V = Vial sample On completion backfilled with arisings.				
					Scale (approx) 1:10	Logged By TM/SJ	Figure No. 6978A,HD5		

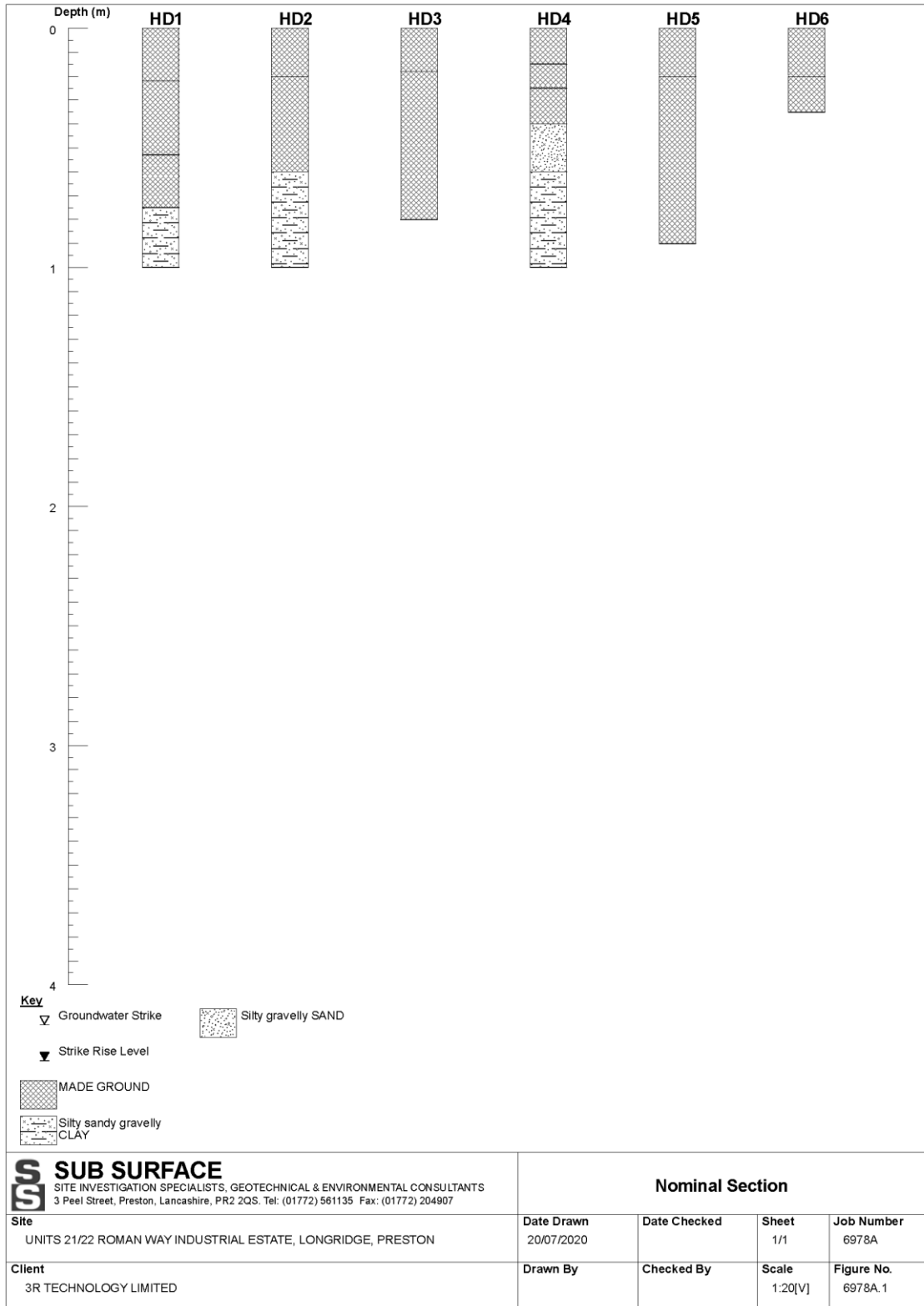
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Excavation Method HAND DUG		Dimensions 0.30m x 0.30m		Ground Level (mOD)	Client 3R TECHNOLOGY LIMITED		Job Number 8978A		
		Location AS PLAN		Dates 12/06/2020	Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (Thickness)	Description	Legend	Water	
0.30-0.40	D				(0.20)	MADE GROUND: concrete.			
0.30-0.40	DA V		12/06/2020:		0.20 (0.15)	MADE GROUND: light greyish brown slightly silty sandy fine to coarse gravel sized fragments of stone with low cobble sized fragments of stone. at 0.30m: medium cobble sized fragments pit sides collapsing unable to progress beyond 0.35m			
					0.35	Complete at 0.35m			
Plan .					Remarks Pit sides collapsing from 0.20m. No groundwater encountered. A = Amber Glass Jar sample V = Vial sample On completion backfilled with arisings.				
					Scale (approx) 1:10	Logged By TM/SJ	Figure No. 6978A,HD6		

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Nominal Section



Site UNITS 21/22 ROMAN WAY INDUSTRIAL ESTATE, LONGRIDGE, PRESTON	Date Drawn 20/07/2020	Date Checked	Sheet 1/1	Job Number 6978A
Client 3R TECHNOLOGY LIMITED	Drawn By	Checked By	Scale 1:20[V]	Figure No. 6978A.1

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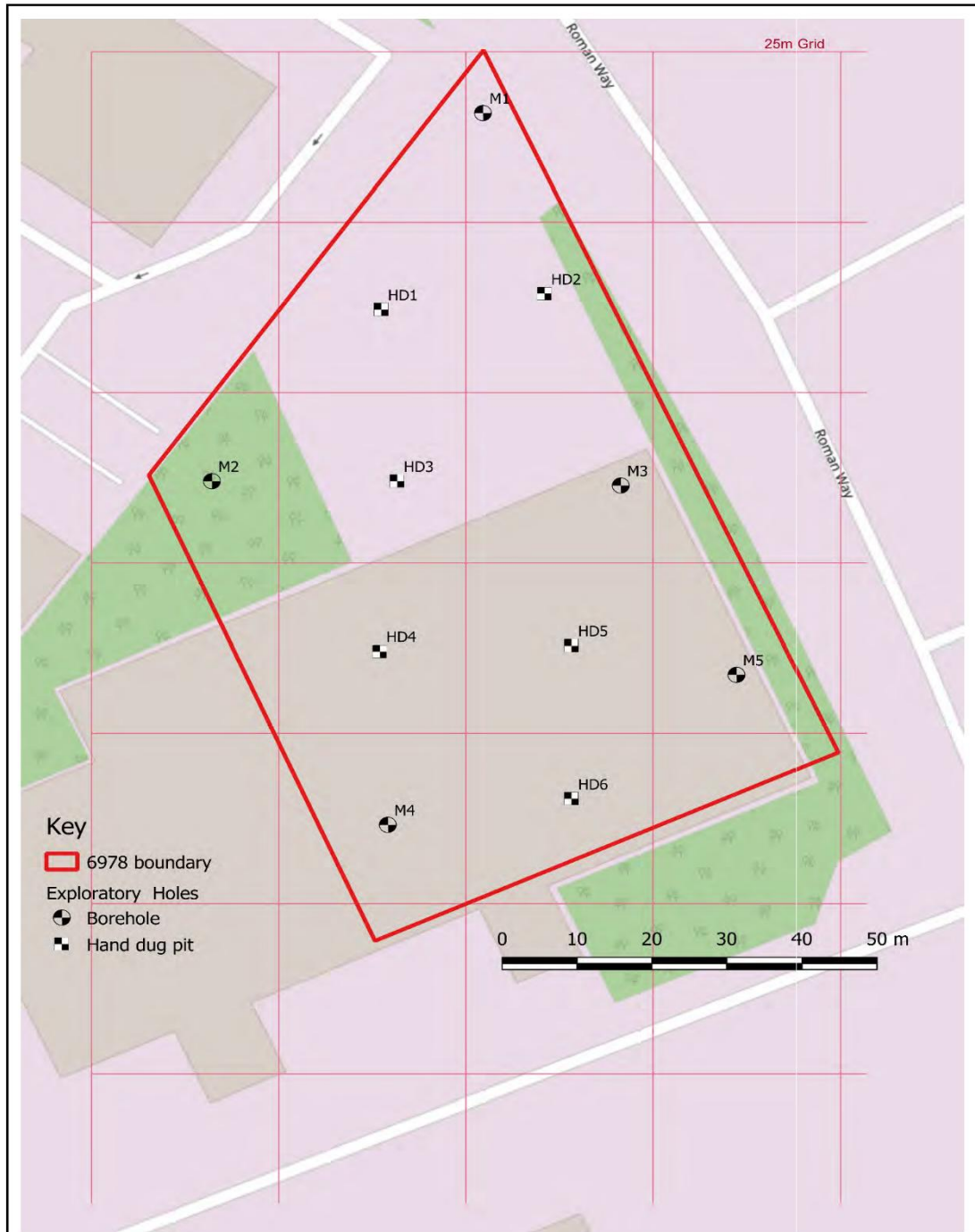
FIGURES



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 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Site Location			
	Site 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Date Drawn 08/06/2020	Date Checked	Orientation 
Client 3R TECHNOLOGY LIMITED	Drawn By DJ	Checked By	Scale As Shown	Page No. 1

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 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Locations of Exploratory Holes				
	Site 21 & 22 ROMAN WAY INDUSTRIAL ESTATE, PRESTON, LANCASHIRE, PR2 5BB	Date Drawn 08-Jun-20	Date Checked	Orientation 	Job No. 6978A
	Client 3R TECHNOLOGY LIMITED	Drawn By DJ	Checked By	Scale As Shown	Figure No. 2



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