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FORMER BRITISH LEGION CLUB, TOWNELEY ROAD, LONGRIDGE

Phase 1 - Contamination Risk Assessment

Prepared for:

Touchline Developments Ltd

Report Ref: BEK-20770-1

October 2020

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Project Quality Assurance Information Sheet

Site	Former British Legion Club, Towneley Road, Longridge
Report Title	Phase 1 - Contamination Risk Assessment
Report Status	Final
Report No	BEK-20770-1
Date	October 2020
Prepared For	**TOUCHLINE DEVELOPMENTS LTD** British Legion Towneley Road Longridge
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Phase 1 - Contamination Risk Assessment

PROJECT NO: 20770

REPORT REF: BEK-20770-1

DATE: October 2020

REVISION STATUS / HISTORY

Rev	Date	Issue / Comment	Prepared	Checked
A	20 Oct 2020	Slightly amended development layout plan	D Emmott	M Buckley

GENERAL REPORT LIMITATIONS

BEK Enviro Limited (BEK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and BEK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by BEK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

No part of this report may be copied or duplicated without the express permission of BEK and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Unless explicitly agreed otherwise, in writing, this report has been prepared under BEK's limited standard Terms and Conditions as included within our proposal to the Client.

The report needs to be considered in the light of the BEK proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

TABLE OF CONTENTS

1. INTRODUCTION

1.1 Appointment

1.1.1 BEK Enviro (BEK) has been commissioned by Touchline Developments Ltd to prepare a Preliminary Risk Assessment (PRA) for the proposed residential development at the Former British Legion Club located off Towneley Road, Longridge (hereafter referred to as 'the site'). The PRA will assess the potential contamination risks associated with redevelopment of the site for residential use.

1.1.2 The site location is presented in Figure 1.

1.2 Proposed Development

1.2.1 This report has been prepared to support a planning application for the demolition of the existing building and change of use to residential with the construction of an apartment block (13 apartments).

1.2.2 The proposed development layout is presented on PGB Architectural Services Drawing No 120 (entitled 'Proposed Apartments – Planning Ground Floor Plan), a copy of which is presented in Appendix E. There are to be no landscaped/gardens areas.

1.3 Objective & Scope of Work

1.3.1 This report provides the details of the works undertaken by BEK to assess the potential risks from contamination considering the change of use to residential.

1.3.2 To achieve the objective BEK will undertake the following:

- Carry out a site inspection and collect photographs
- Review the available relevant background information for the site, including:
  - Recent Ordnance Survey Maps
  - Site Specific GroundSure Reports
  - Site Specific Historical Maps
  - Available Google Earth Images
  - Available historic photographs
  - Coal Authority website
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development
- Establish areas of potential concern based on identified risks and/or potential risks
- Identify any actions required to assess or reduce the risks identified

1.4 Limitations

1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. BEK reserves the right to amend the conclusions and recommendations if further information becomes available.

1.4.2 However, it should be noted that much of the information has been derived from reports written by others and BEK takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.

1.4.3 This report does not include an assessment of the vegetation present at the site and specifically the identification of any invasive plant species.

2. SITE DESCRIPTION

2.1 Site Location

2.1.1 The site is located to the east of Towneley Road, Longridge. The National Grid Reference for the centre of the site is 360260 437402 and is approximately 500 m^2 (0.05 hectares) in size (see Figure 1).

Figure 1: Site Location Plan

2.2 Site Layout & Description

2.2.1 A site walkover/inspection was conducted by an engineer from BEK in October 2020. A selection of photographs showing the existing site layout is presented in Appendix D.

2.2.2 The site is occupied by a building that is in a por state of repair. The signage on the buildings states 'Longridge Sports & Social Club'. The building is predominantly of wood constriction with a cement tile roof. There are small brick extensions on the northern and southern sides of the building and another small breeze block extension to the south. The breeze block extension houses a kerosene oil tank

2.2.3 The western side of the building is adjacent to the pavement off Towneley Road. There is a small flagged alley way to the north of the building and grassed areas to the east and south. There is a concrete slab located to the south-east of the building; figure 2 indicates that there was a building located at this location previously.

Figure 2: Site Layout

2.3 Surrounding Land Use

2.3.1 The site is located in an area dominated by residential properties. A landscaped area marked as Bowling Green is located to the east of the site.

3. SITE HISTORY

3.1 The history of the site has been established using historical OS maps supplied by Groundsure. A selection of historical OS maps reviewed is presented in Appendix A.

1892 - 1912

3.2 The earliest available maps show the western half of the site to be vacant and the eastern half to be occupied by a wooded area associated with Towneley Arms Hotel (see Figure 3). The Hotel appears to be located some 60 m to the east and is part of buildings associated with a railway station. The railway line is located within a cutting that is some 50 m from the site at its closest point. There are numerous railway sudings located from 100 m to the north-east. The sidings link Cramps Oak Mill (Cotton) to the main railway line. There is a reservoir associated with the cotton mill some 120mm to the north of the site.

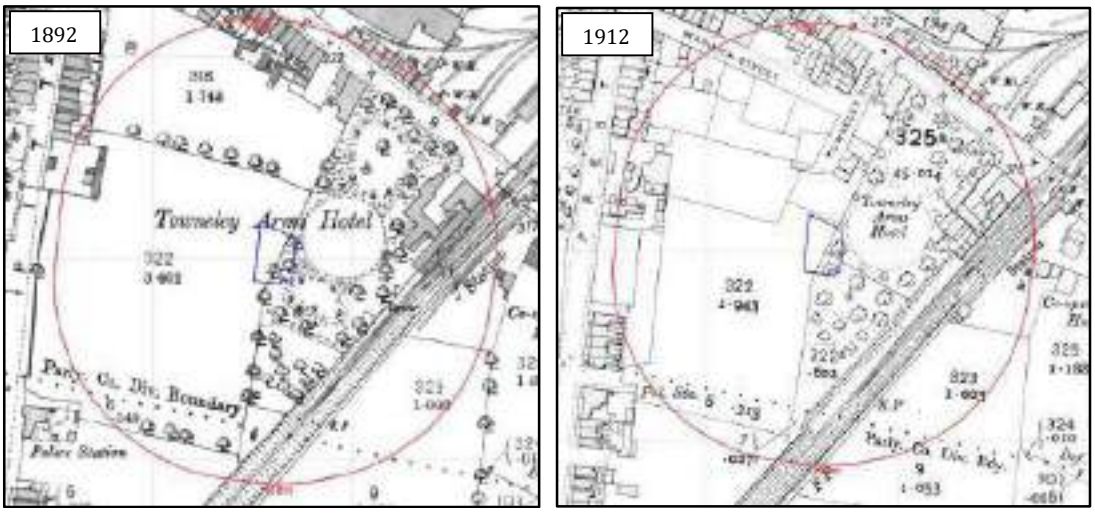


Figure 3 & 4: Extracts from 1892 and 1912 Historic Maps

1932

3.3 The 1932 map shows no significant change to the site or the surrounding area. Some unspecified buildings (one building marked as a 'Laundry') are located some 25 to the north of the site

1967

3.4 This maps shows the site to be occupied by a building marked as 'Club'. There is a Hall to the north and a Bowling Green to the east. Towneley Road marks the western site boundary with residential properties beyond. Park House (residential) is located some 25 m to the south. The hotel and several other buildings associated with the station adjacent to the railway are absent (a Public House remains). The cotton mill and associated reservoir are absent (reservoir infilled) and a building marked as 'Hatchery' has replaced the mill building (see Figure 5).

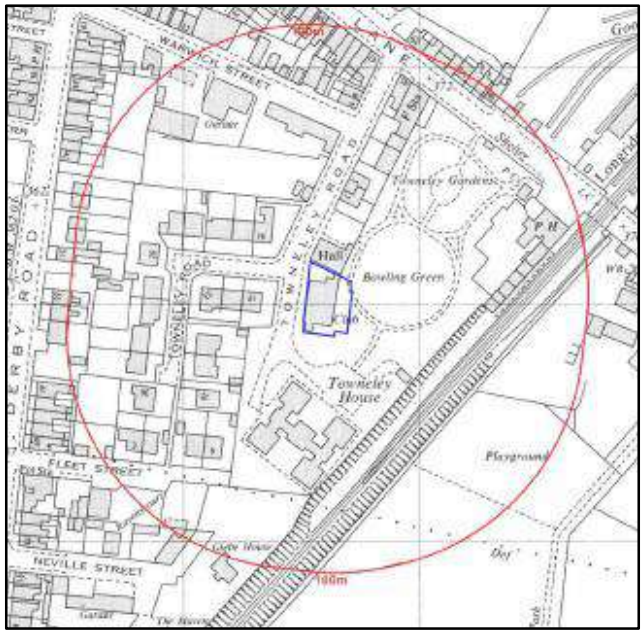


Figure 5: *Extract from 1967 Historic Map*

1974 - 1979

3.5 These maps show no change to the site. The railway lone to the east of the site is absent and a large building marked as Towneley House is located some 30 m to the south-east of the site on the route of the former railway line. The cutting that houses the former railway line is absent and this may have been infilled (see Figure 6)

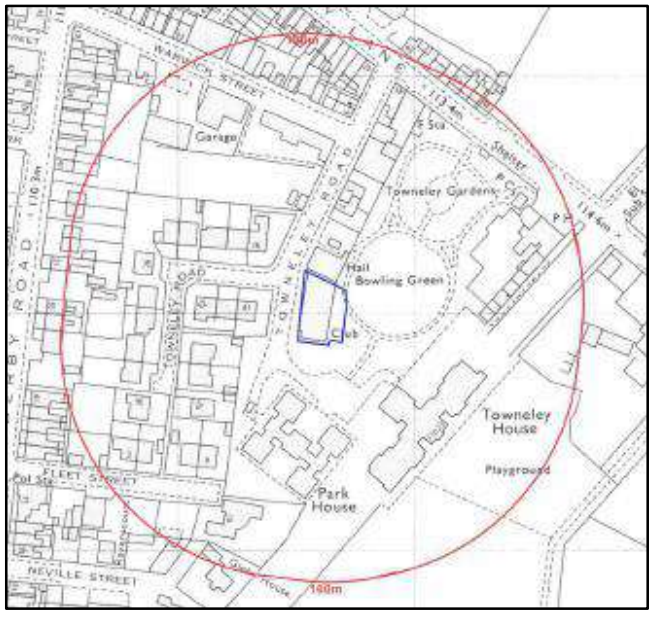


Figure 6*: Extract from 1974 Historic Map*

1981 – 2020

3.6 There are several historic maps available from 1981 to 2020 and they do not show any significant change from the 1974 map.

4. ENVIRONMENTAL SETTING

4.0.1 An Enviro+GeoInsight Report has been obtained from Groundsure and information provided in this report has been used within this section. A copy of the report is presented in Appendix B.

4.1 Geology

4.1.1 The site geology is illustrated in the Enviro+GeoInsight Report which has sourced data from several sources including British Geological Society (BGS), BRITPITS database and the Coal Authority. A copy of the Enviro+GeoInsight Report is presented in Appendix B.

4.1.2 There are no BGS exploratory locations within close proximity to the site.

4.1.3 Made Ground

4.1.4 According to the Enviro+GeoInsight Report there is no artificial ground (made ground) located within the site. However, as the site has been subject to development, some made ground is likely associated with levelling the site for development.

Superficial Geology

4.1.5 The Enviro+GeoInsight Report states that the superficial deposits underlying the site comprise Glacial Till (Boulder Clay).

Bedrock

4.1.6 The Enviro+GeoInsight Report states that the underlying solid geology comprises of 'Pendle Grit Member' which is dominated by sandstone.

Faults

4.1.7 There are no faults/linear features located within 200 m of the site.

4.2 Mining & Ground Stability

4.2.1 Information in the Enviro+GeoInsight Report indicates that the site is not located in an area that may have been affected by coal mining.

4.2.2 There are/were no mining activities located within 250 m of the site.

4.2.3 The Enviro+GeoInsight Report Report provides hazard ratings associated with ground subsidence at the site, as summarised below:

Shrink-Swell Clay:	Very Low
Landslides:	Very Low
Ground Dissolution of Soluble Rocks:	Negligible
Compressible Deposits:	Negligible
Collapsible Deposits:	Very Low
Running Sands:	Very Low

4.2.4 It can be seen from the above that the site is unlikely to be affected by natural ground instability.

4.3 Hydrogeology

4.3.1 The Enviro+GeoInsight Report indicates the underlying superficial strata is classified as a 'Secondary (Undifferentiated) Aquifer' which are 'assigned where it is not possible to attribute either category A or B to a rock type'.

4.3.2 The underlying bedrock is classified as 'Secondary A Aquifer' which is described as having permeable layers capable of supporting water supplies at a local rather than strategic stage, and in some cases forming an important source of base flow to rivers. Generally these aquifers were previously minor aquifers.

4.3.3 The Enviro+GeoInsight Report indicates the site is not located within a groundwater source protection zone and there are no groundwater abstractions located within 250 m of the site.

4.4 Hydrology

4.4.1 There are no surface water features on site and no significant surface water features located within 250 m o the site.

4.5 Contaminated Land & Landfill Activities

4.5.1 Information provided in the Enviro+GeoInsight Report indicates that there are no historic/current landfill sites or infilled land located within 250 m of the site.

4.5.2 However, historic OS maps indicate that landfilling has likely occured along the railway cutting to the east and south-east of the site. This is supported by Groundworkings Map presented in the Enviro+GeoInsight Report (see Figure 7). This maps shows worked ground along the route of the former railway cutting (dated

4.5.3 There are six Licensed pollutant release located within 250 m of the site, the closest of which is located some 110 m to the north-east associated with a dry cleaners (no enforcements issued). These incidents are not considered to have impacted on the site due to distance.

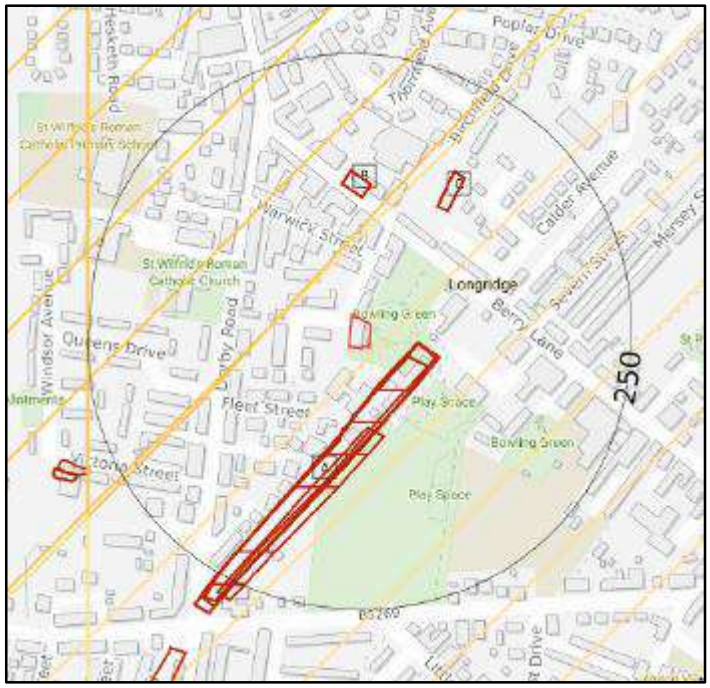


Figure 7: Locations of Published Groundworkings

4.5.4 There are no significant EA recorded pollution incidents located within 250 m of the site and the Enviro+GeoInsight Report has no recorded Part A(1), Part B or IPPC Authorised Activities within 250 m of the site.

4.6 Sensitive Land Use

4.6.1 The site is not affected by any of the ecological systems identified as a statutory receptor in the DETR Circular 01/2006.

4.6.2 The site is not located within a nitrate vulnerable zone.

4.7 Radon

4.7.1 Enviro+GeoInsight Reports that the site has a less than 1% of homes that are above the action trigger level and that 'no radon protective measures are necessary in the construction of new dwellings or extensions'.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

5.1.1 This section identifies the potential sources of contamination along with specific contaminants of concern, pathways and receptors that may be associated with the site based on its known history and the current condition and with respect to the re-development of the site for residential use (no plant uptake).

5.1.2 This information is used to develop a preliminary conceptual model which is a qualitative description of potential sources of environmental pollutants, the pathways by which they are transported and the receptors:

i) Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site

ii) Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways

iii) Potential receptors of contamination: these include future land users, ecological systems, water resources and property

5.1.3 If no potential sources of contamination are identified as part of the assessment, then there are no risks associated with contamination to potential receptors associated with the site.

5.2 Potential Contaminants of Concern

5.2.1 Based on the earliest available maps the site was vacant and undeveloped before construction of the club circa 1967. The club has occupied by the site since construction. There are no significant contaminants of concern associated with the historic use as a club with the exception of the kerosene tank located within a breeze block extension to the south. There could be leaks/spills associated with the tanks and the shallow ground at this location could be impacted by hydrocarbon contamination.

5.2.2 Given the site has been subject to development, there is likely to be made ground across the site, possibly imported to level the site to facilitate the development. The nature and extent of any made ground is currently unknown and it could contain contaminants of concern.

Contaminants Associated with General Made Ground	
Arsenic	Zinc
Cadmium	Sulphate
Chromium	Cyanide
Copper	Phenols
Lead	Speciated Polycyclic Aromatic Hydrocarbons
Mercury	Speciated Total Petroleum Hydrocarbons
Selenium	Volatile Organic Compounds
Nickel	Asbestos

Table 1: Potential Contaminants of Concern

5.2.3 It should be noted that the above list represents a broad range of potential contaminants of concern. Additional contaminants of concern may be present if ground conditions differ from those anticipated.

5.2.4 Based on the available background information the potential risks from ground gas are considered to be very low. However, in the unlikely event that site investigation/groundworks encounters significant thickness of made ground (>3 m) or if the natural strata has a high organic content, it may be necessary to re-assess the potential risks from ground gas.

5.3 Potential Pathways

5.3.1 The pathways through which contaminants may reach receptors are in part dependent by the nature and behaviour of the contaminant and the intended end use of the site.

5.3.2 The following potential pathways have been identified with respect to the existing site condition, the environmental setting and the re-development of the site to residential (apartment block); all of which are assessed in the conceptual model:

- Ingestion of contaminated soil (during groundworks only)
- Inhalation of contaminative dust including asbestos fibres (during groundworks only)
- Dermal contact (during groundworks only)
- Inhalation of ground gas and/or volatile organic compounds
- Dissolution or suspension (leaching) of contaminants from site soils leading to lateral migration within perched waters to off-site receptors. Potential significant pathways include more permeable layers within the made ground/natural strata, underground services and piles/foundations.
- Contamination affecting the integrity of service pipelines by direct contact

- Buildings affected by direct contact with elevated concentrations of sulphate and/or extreme pH

5.4 Receptors

5.4.1 Potential site specific receptors that may be affected by contamination at the site are listed below:

Future Site Users

5.4.2 Future occupants of the new building could be exposed to ground gas and/or organic vapours that could migrate into the property. Risk are associated with inhalation of ground gas and/or organic vapours.

Construction Workers

5.4.3 The primary risks to construction workers are associated with shallow excavations as asbestos could be present. Asbestos fibres (if present) can be released into the atmosphere during earthworks.

5.4.4 Standard personal protective equipment and site specific risk assessments and method statements should reduce risks associated with other contaminants of concern due to short exposure duration.

Off Site Receptors

5.4.5 Off site receptors include nearby home owners and employees. Human health could be at risk if asbestos fibres are released during the development.

Buildings & Services

5.4.6 Concrete used for the construction of buildings can be affected by high levels of sulphate and extreme pH.

5.4.7 The integrity of service pipes can be affected by concentrations of organic contamination.

Controlled Waters

5.4.8 There are no surface water features on site and no significant surface water features located within 250 m of the site. Surface water features are not considered a potential receptor.

5.4.9 The superficial strata (Boulder Clay) is classified by the EA as a 'Secondary (Undifferentiated) Aquifer'. This strata is relatively impermeable and any water trapped/held within the deposits are not considered to represent a sensitive receptor.

5.4.10 The underlying bedrock is classified as a Secondary A Aquifer and is unlikely to be impacted due to the presence of laterally continuous Boulder Clay which will inhibit vertical migration of contamination to the underlying bedrock.

5.4.11 The site is not located within a groundwater source protection zone and there are no groundwater abstractions within 250 m of the site.

5.4.12 Providing site investigation works can confirm the presence of laterally continuous Boulder Clay across the site, potential risks to controlled waters will be considered as negligible.

5.5 Preliminary Conceptual Model

5.5.1 The identified potential sources of contaminants, pathways and receptors have been assessed to establish plausible pollutant linkages. All potentially significant pollutant linkages are detailed in Table B, in Appendix C.

5.6 Potentially Significant Pollutant Linkages

5.6.1 A number of possible 'significant pollutant linkages' have been identified associated with the site.

5.6.2 Potential risks have been identified to end users due to possible indoor inhalation of ground gas (Link 1) and/or organic vapours (Link 2). If Boulder Clay can be proven at shallow depth then risks from ground gas may be able to be discounted. Organic vapours are associated with the leaks/spills from the kerosene tank/pipework.

5.6.3 Potential risks have been identified to construction workers during earthworks, principally associated with the possible presence of asbestos that could be released into the atmosphere during earthworks (Link 3). Standard personal protective equipment and site specific risk assessments and method statements should reduce risks associated with other contaminants of concern due to short exposure duration.

5.6.4 There is also the possibility of windblown particulates (particularly asbestos) being inhaled by people/animals both on site and off site.

5.6.5 Property (including services) could be affected by direct contact to high concentrations of contaminants (link 4).

5.6.6 Site investigation is required to identify site specific conditions and assess the risks associated with each identified plausible pollutant linkage.

6. RECOMMENDATIONS

6.1 Based on the findings of the Preliminary Risk Assessment herein, a number of potential risks associated with contamination have been identified with respect to the redevelopment of the site for residential use (without plant uptake).

6.2 Risks have been identified to human health and property (including services). Site investigation is required to determine shallow ground conditions and quantify the potential risks identified. We also recommend that site investigation works consider geotechnical requirements to provide recommendations for foundation design for the new build.

6.3 The site investigation will need to characterise the shallow ground conditions across the site. It is recommended that these works are carried out following demolition and site clearance to allow access to the site. The following works will be required:

Pre-Demolition Asbestos Survey

6.4 The building should be subject to a pre-demolition asbestos survey by a specialist contractor. Any asbestos identified should be removed and disposed of in accordance with the Duty of Care Regulations prior to demolition.

Site Investigation

6.5 The investigation should comprise the drilling of a series window sample boreholes to prove the nature and thickness of any made ground present and characterise the natural strata. In-situ strength tests (SPTs) will be carried out in each borehole. It may also be necessary to excavate a series of shallow hand excavated trial holes, particularly in the (former) area of the kerosene tank.

6.6 The site investigation should be supervised by an experienced engineer who will be responsible for recording ground conditions encountered.

6.7 Representative samples will be recovered for chemical and geotechnical testing (depending on ground conditions encountered). All samples for chemical testing will be collected in appropriate sampling vessels, stored in a precooled cool box and dispatched to the laboratory as soon as practicable.

Laboratory Testing

6.8 Following a review of the ground conditions encountered, a selection of samples will be tested for the contaminants of concern listed in Table 1 of this report. If visual or olfactory evidence of contamination is encountered during the site investigation then it may be necessary to undertake additional testing.

6.9 Depending on ground conditions encountered, selected bulk/core samples will also be tested for geotechnical properties

6.10 In addition, if soils are to be removed from site to facilitate the development works then it may be necessary to test soils for Waste Acceptance Criteria (WAC).

6.11 All testing will be carried out by a UKAS accredited laboratory to MCERTS standard (where applicable).

Assessment

6.12 The site investigation data and laboratory test results will be assessed as part of a quantitative risk assessment to amend the conceptual site model and identify any potential significant pollutant linkages. In addition, the information will be assessed as part of a geotechnical assessment to inform foundation design.

6.13 The assessment will be undertaken in accordance with current UK guidance and policy.

Reporting

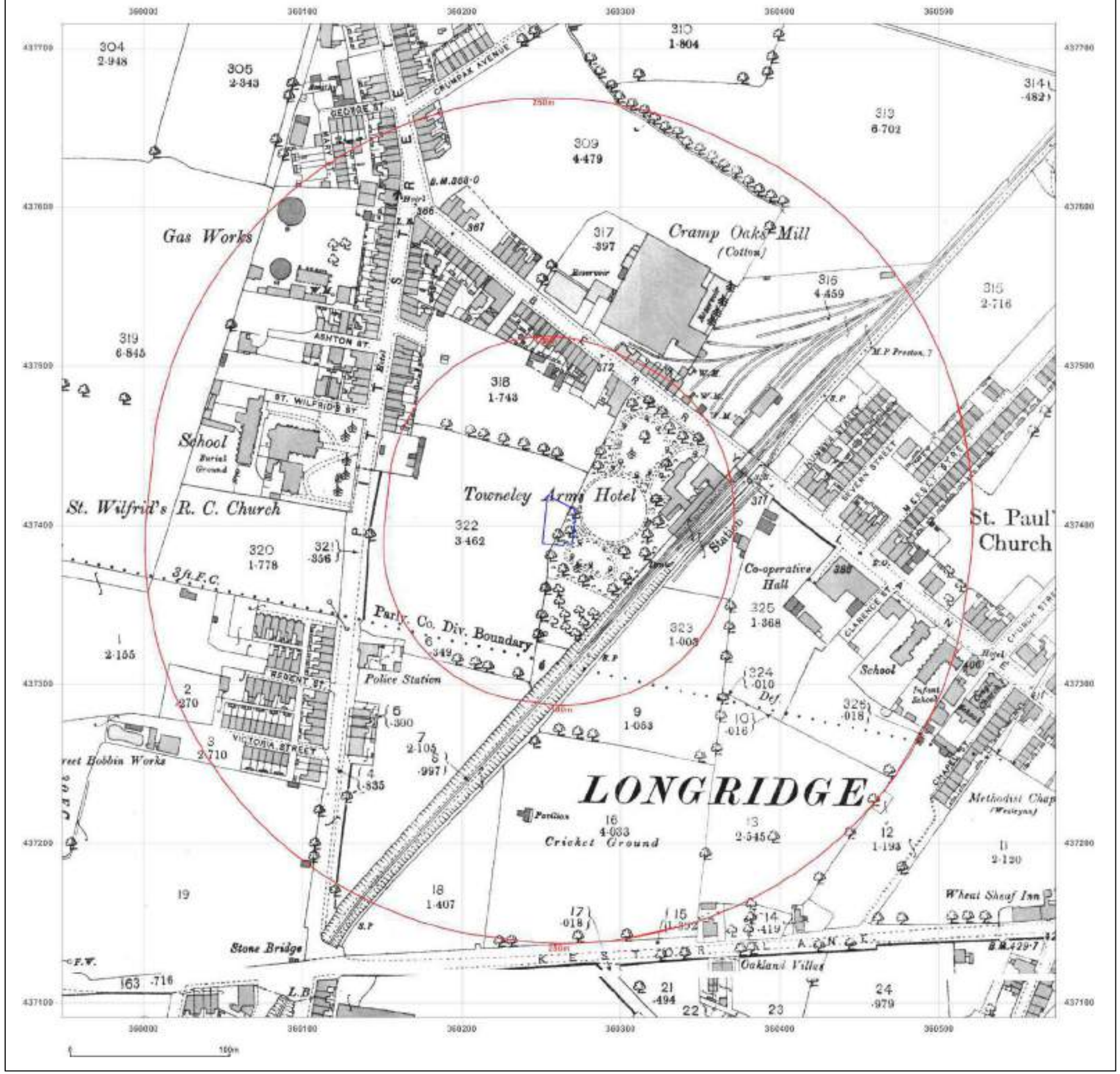
6.14 The site investigation works carried out will be detailed in a Site Investigation & Ground Assessment report along with the assessment and recommendations for any remediation works required.

Other Considerations

6.15 We would also recommend that consideration is given to the requirements of the water supply service provider and the completion of the UKWIR risk assessment for water pipe selection.

APPENDIX A

Historical OS Maps



CENTRE MAPS LIVE.

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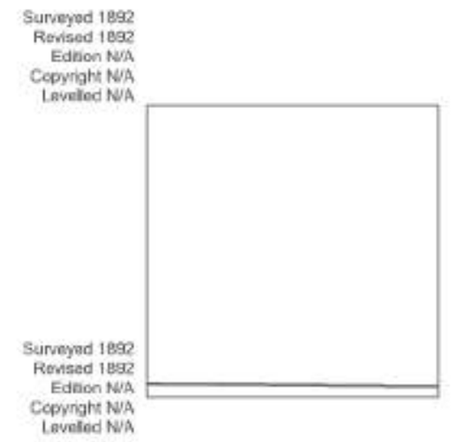

Groundsure

Produced by
Groundsure Insights
www.groundsure.com

Supplied by:
www.centremapslive.com
groundsure@centremaps.com

Production date: 30 September 2020

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

CENTRE MAPS LIVE.

Site Details:

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Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

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

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

Surveyed 1912
Revised 1912
Edition N/A
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Site Details:

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Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: County Series
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Surveyed 1932
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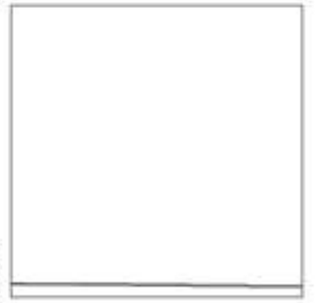

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CENTRE MAPS LIVE.

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Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1960-1961**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1930

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

Groundsure INSIGHTS

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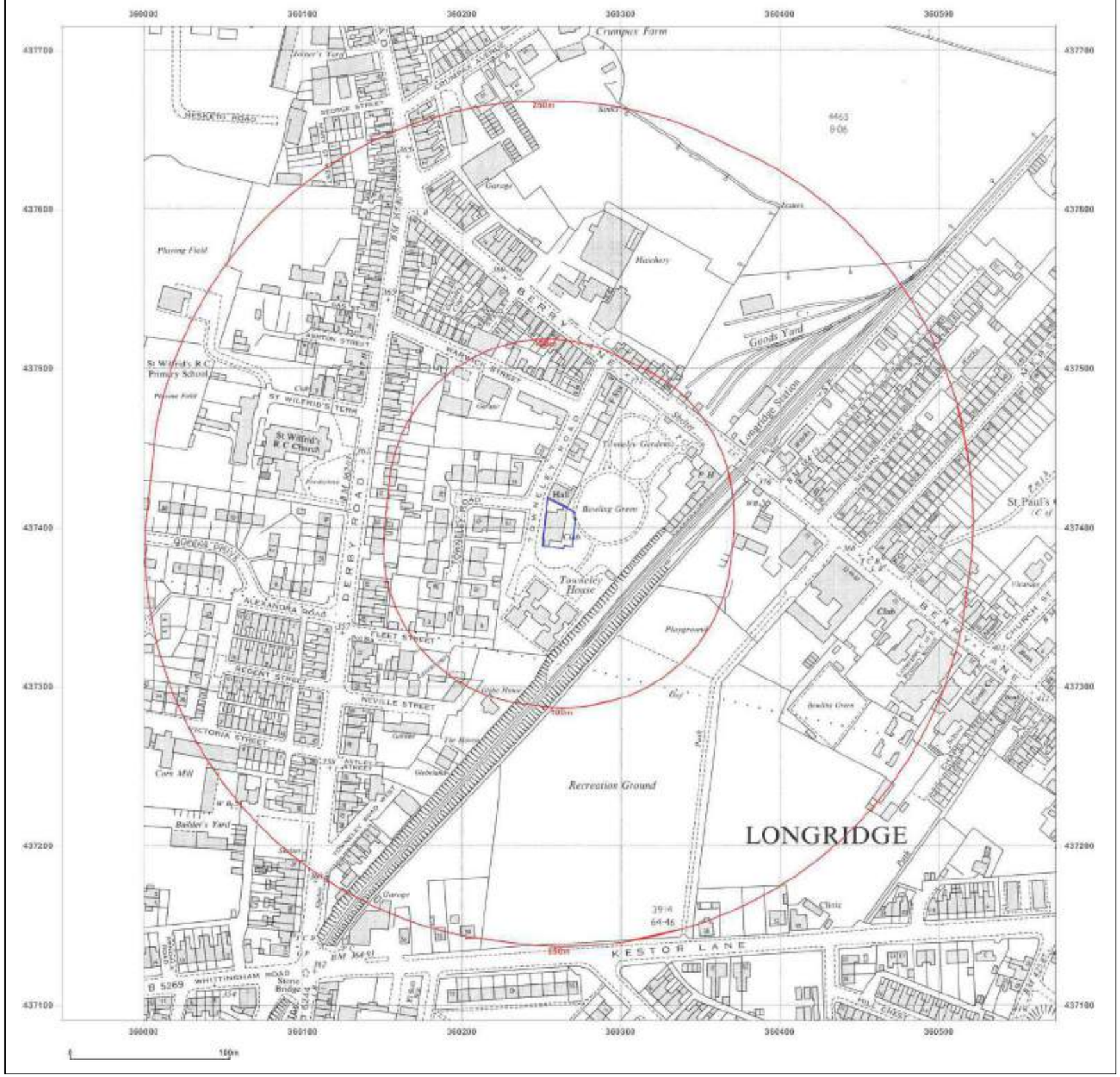
Supplied by:
www.centremapslive.com
groundsure@centremaps.com

Production date: 30 September 2020

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



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Site Details:

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Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1967**

Scale: 1:2,500

Printed at: 1:2,500

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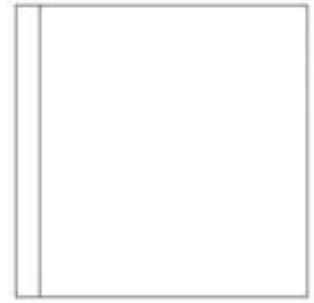

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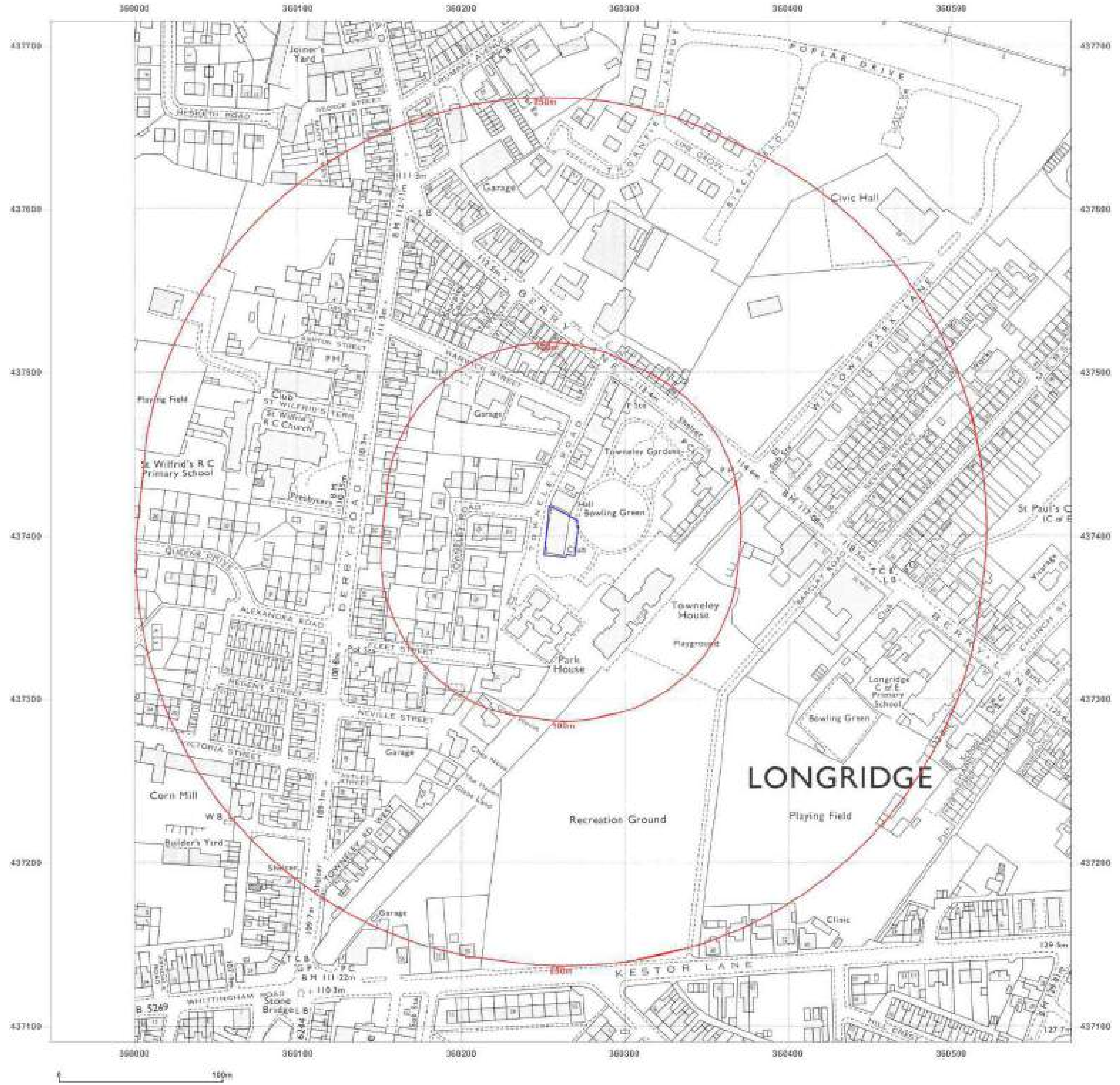
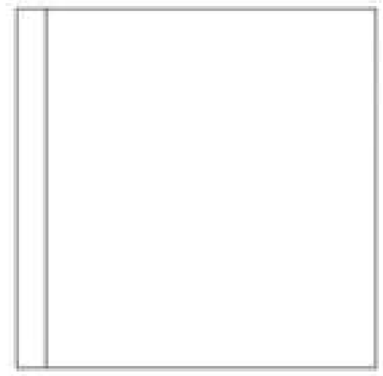
Production date: 30 September 2020

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





Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1974
Revised 1974
Edition N/A
Copyright 1975
Levelled 1961

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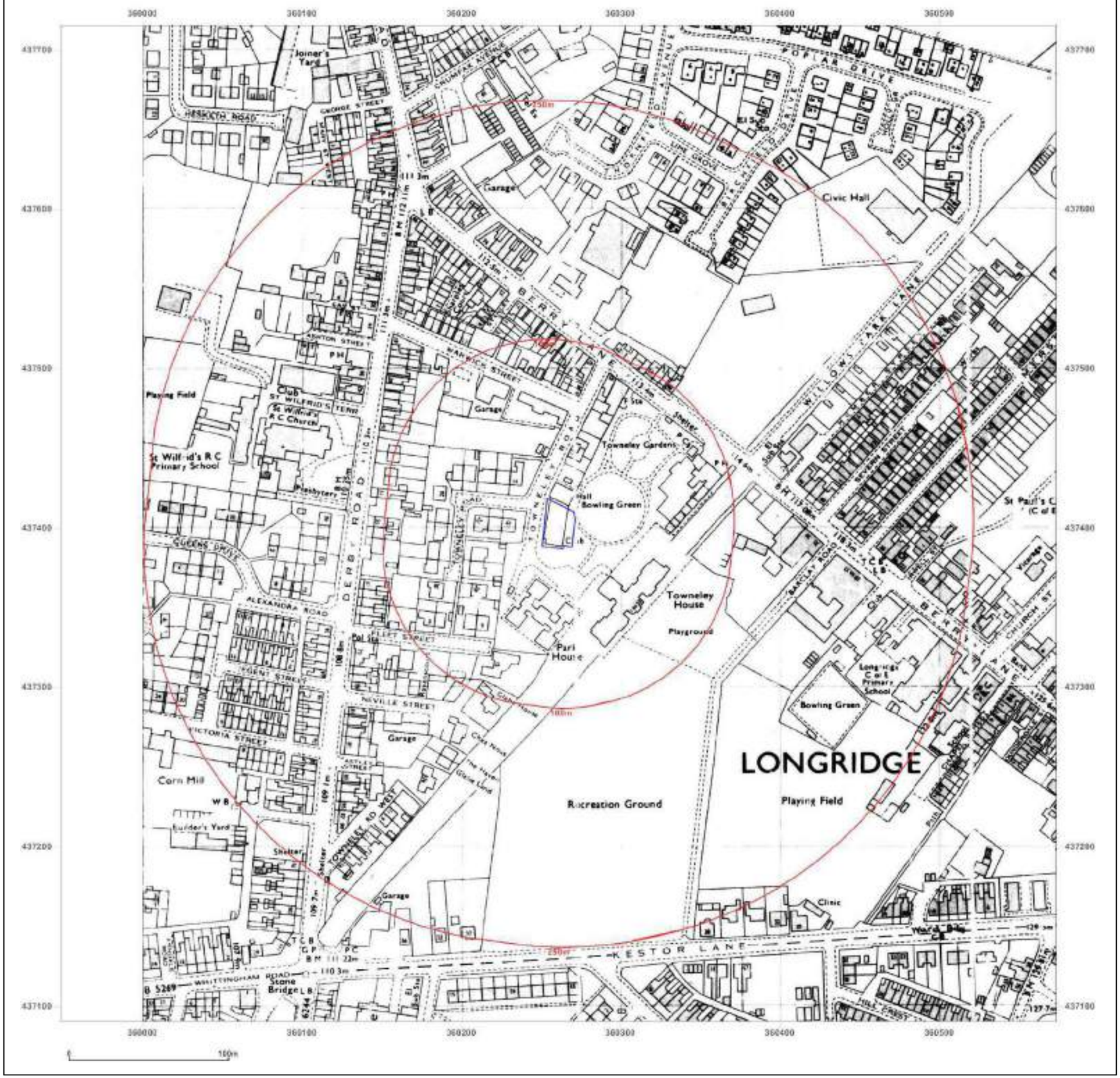

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1979**

Scale: 1:2,500

Printed at: 1:2,500

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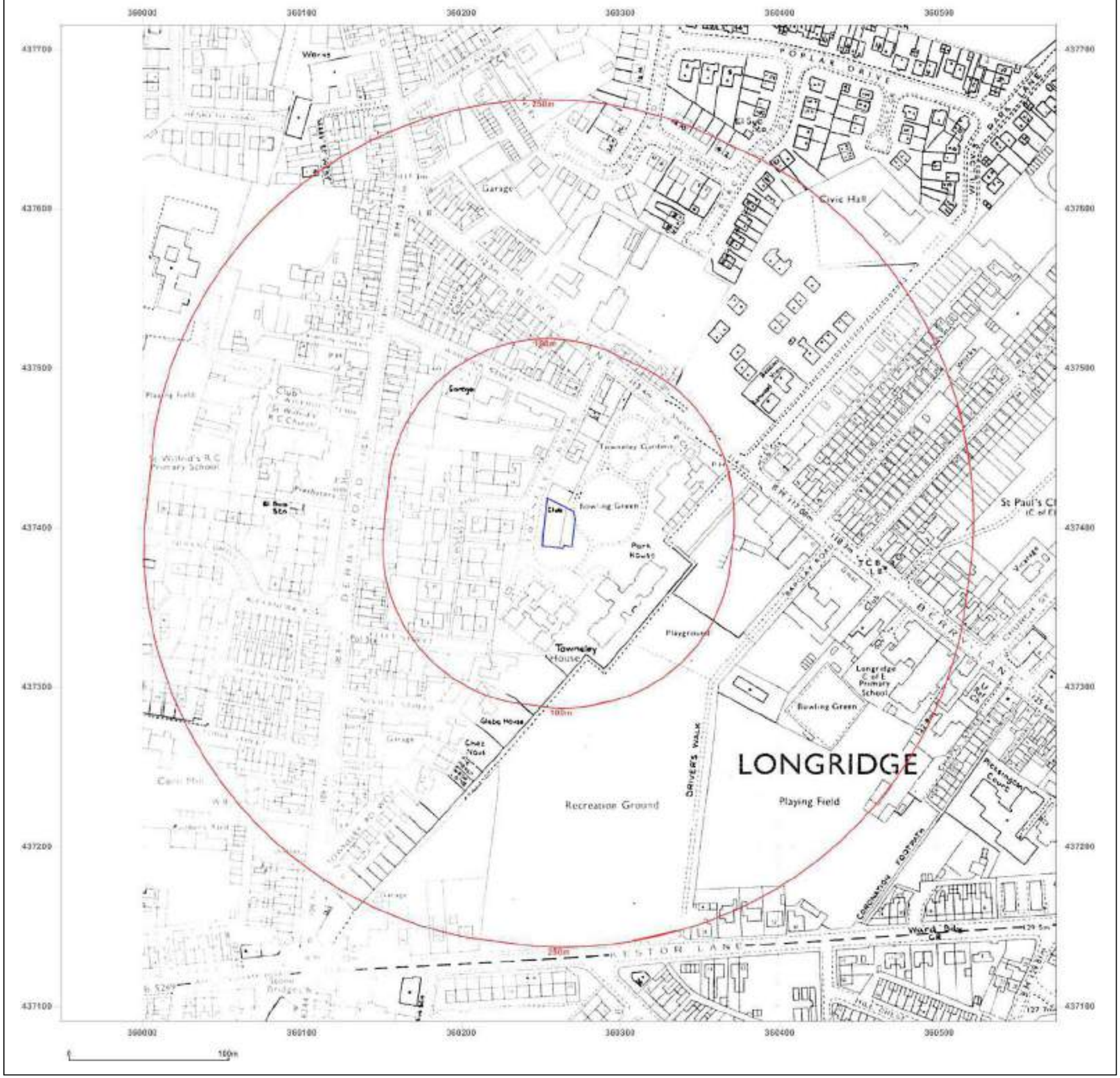

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1981**

Scale: 1:2,500

Printed at: 1:2,500

N
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Revised N/A
Edition N/A
Copyright 1981
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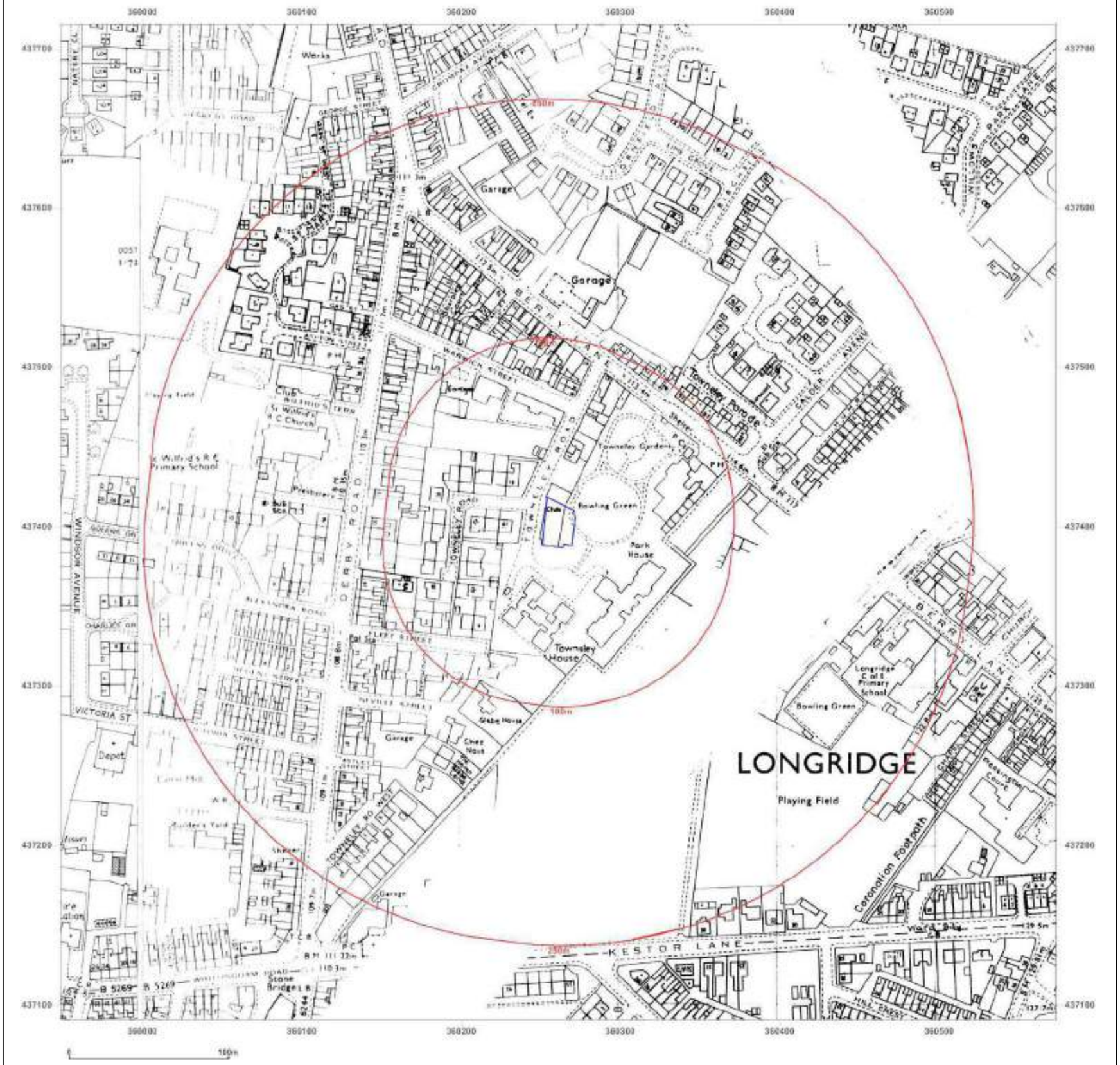

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1987-1988**

Scale: 1:2,500

Printed at: 1:2,500

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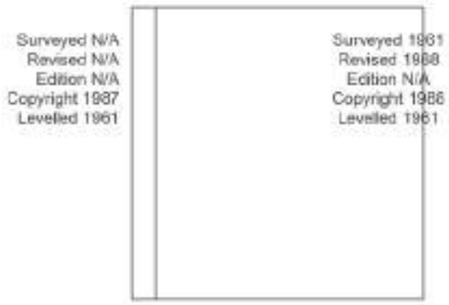

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Production date: 30 September 2020

Map legend available at:
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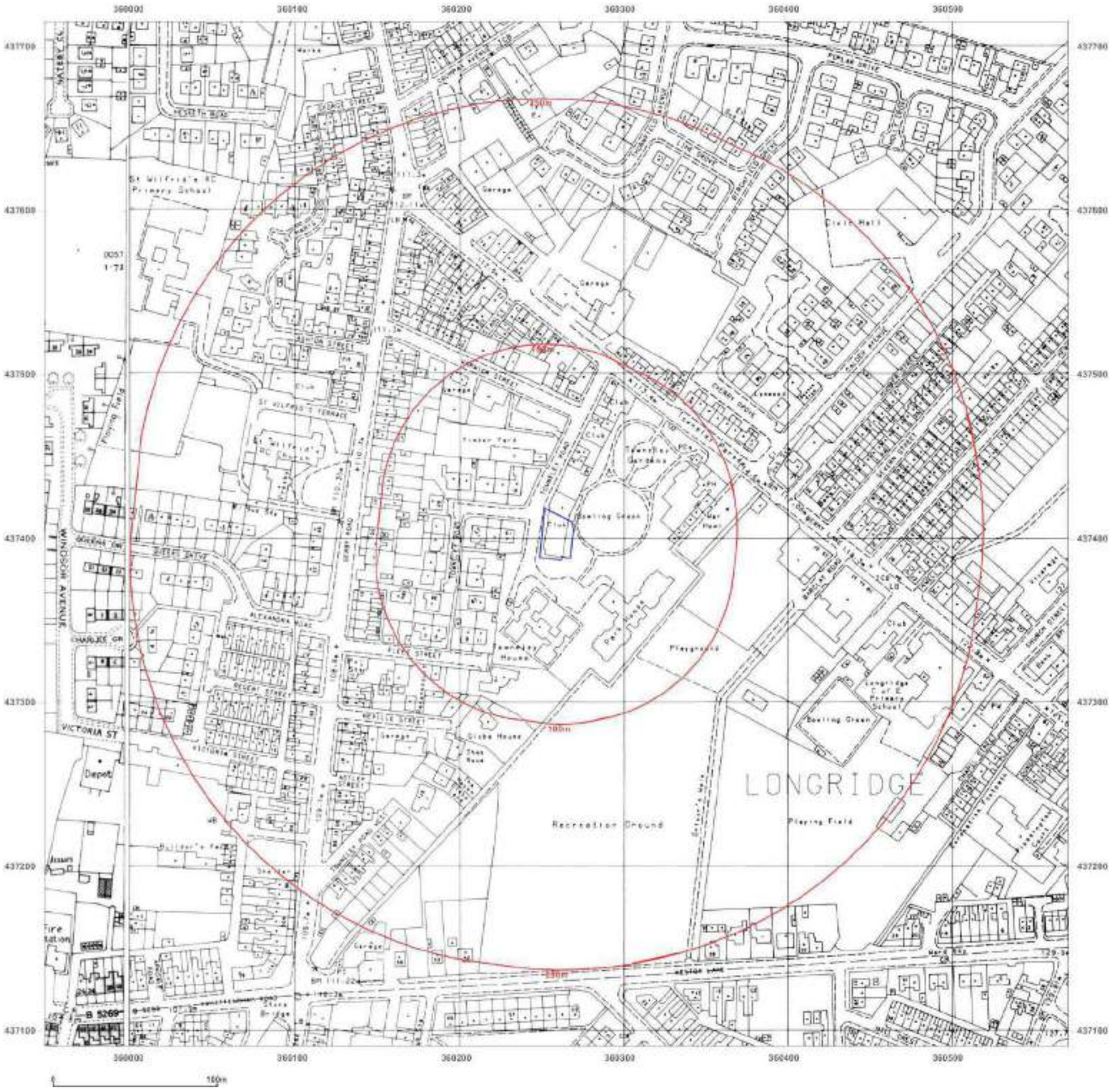

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1992**

Scale: 1:2,500

Printed at: 1:2,500

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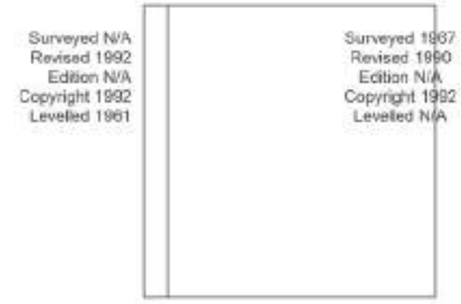

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Production date: 30 September 2020

Map legend available at:
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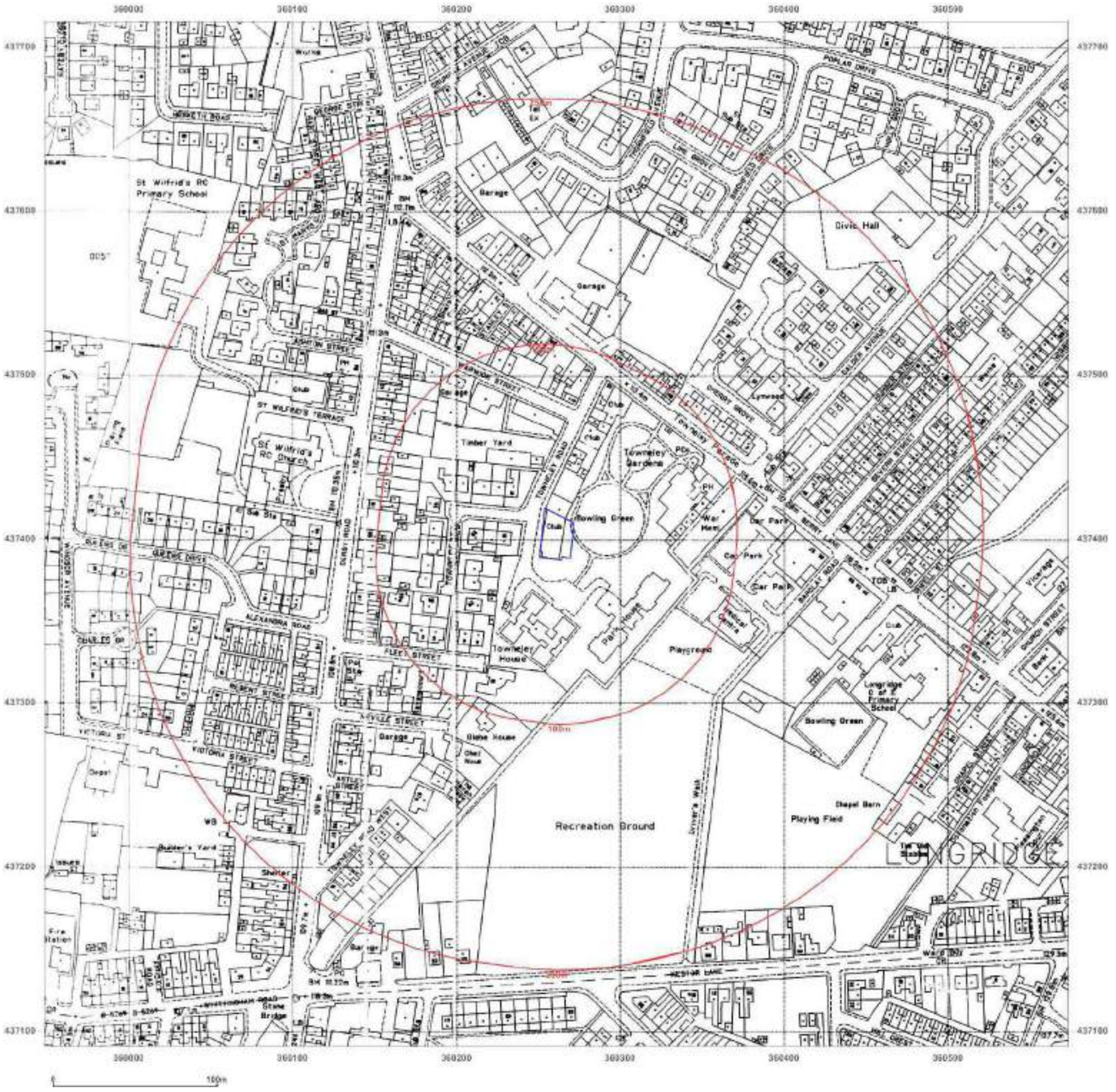

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1994**

Scale: 1:2,500

Printed at: 1:2,500

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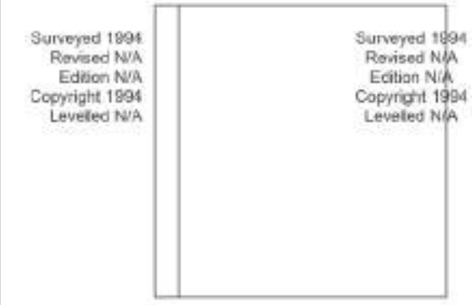

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Production date: 30 September 2020

Map legend available at:
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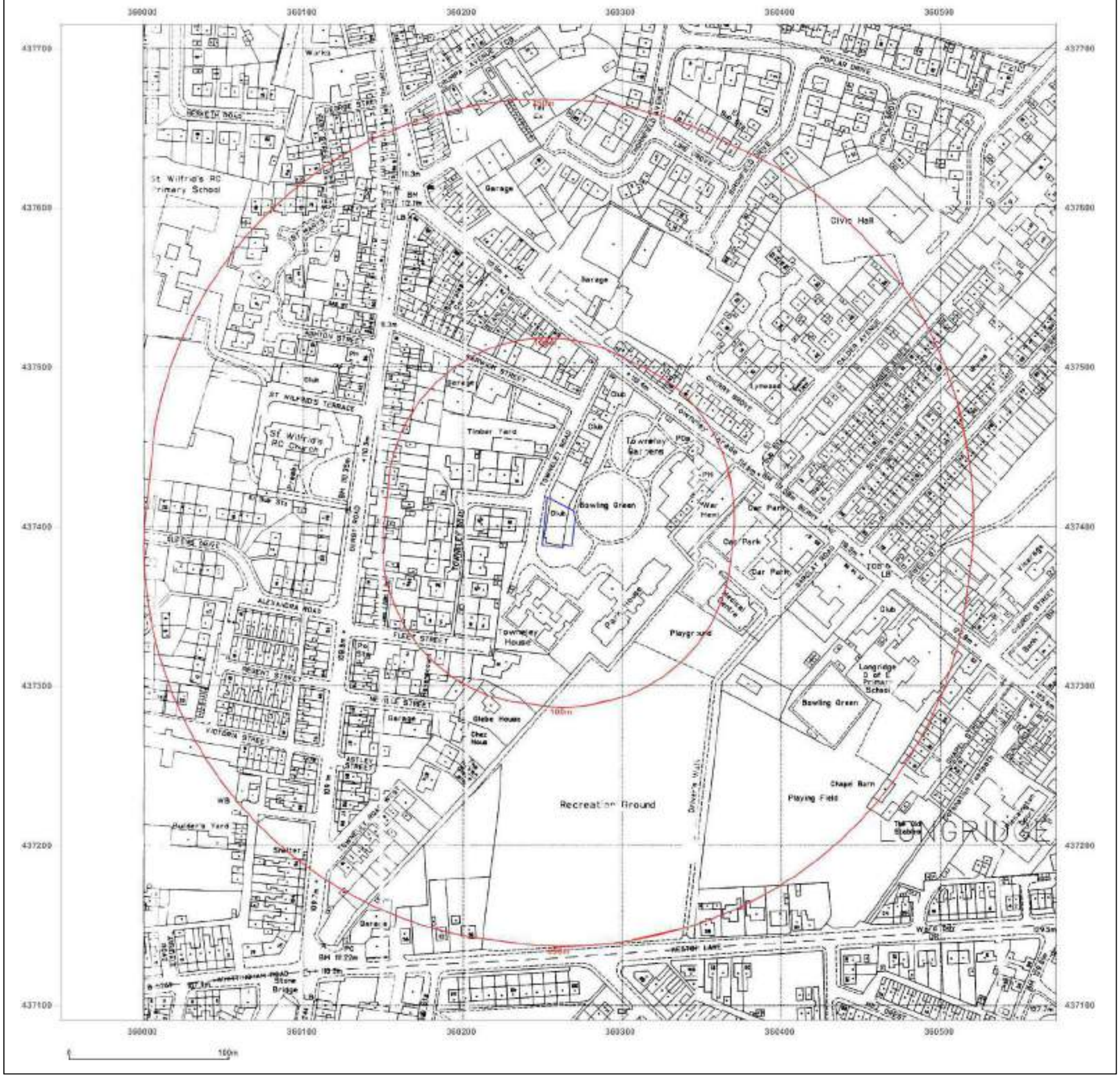

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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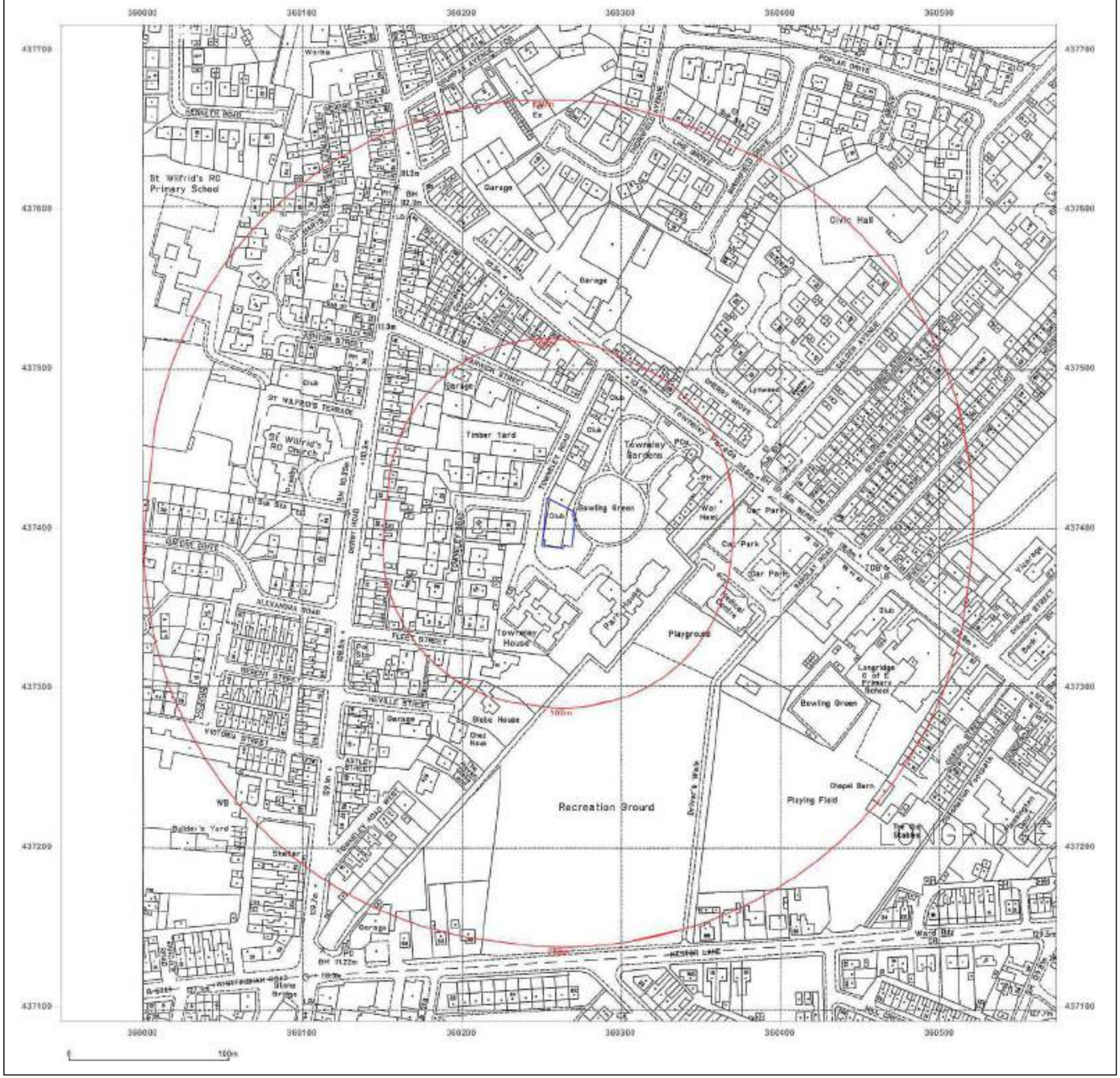

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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

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Production date: 30 September 2020

Map legend available at:
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Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

Map Name: LandLine

Map date: **2003**

Scale: 1:1,250

Printed at: 1:1,250

N
W E
S

2003

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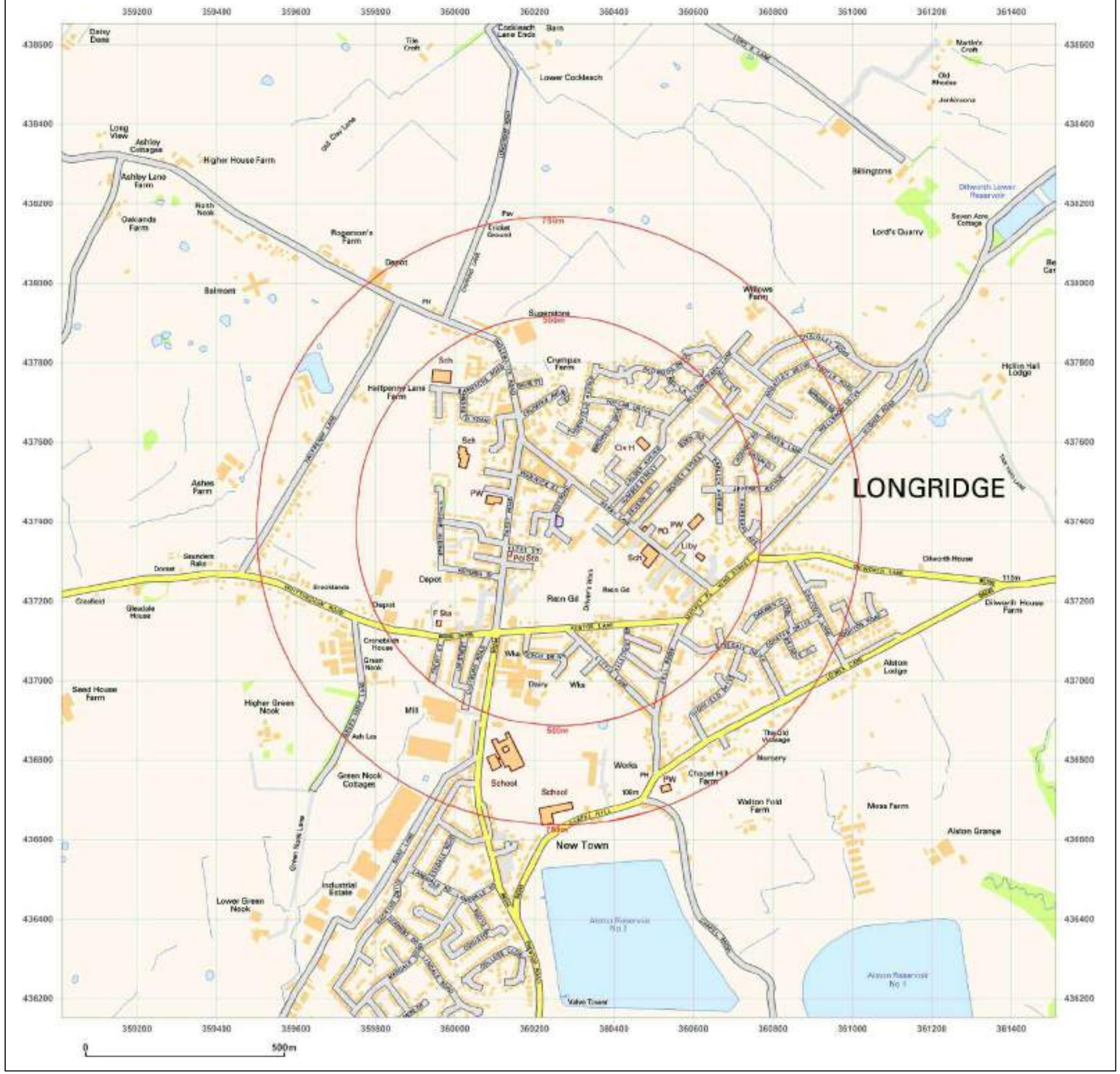

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

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

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2001

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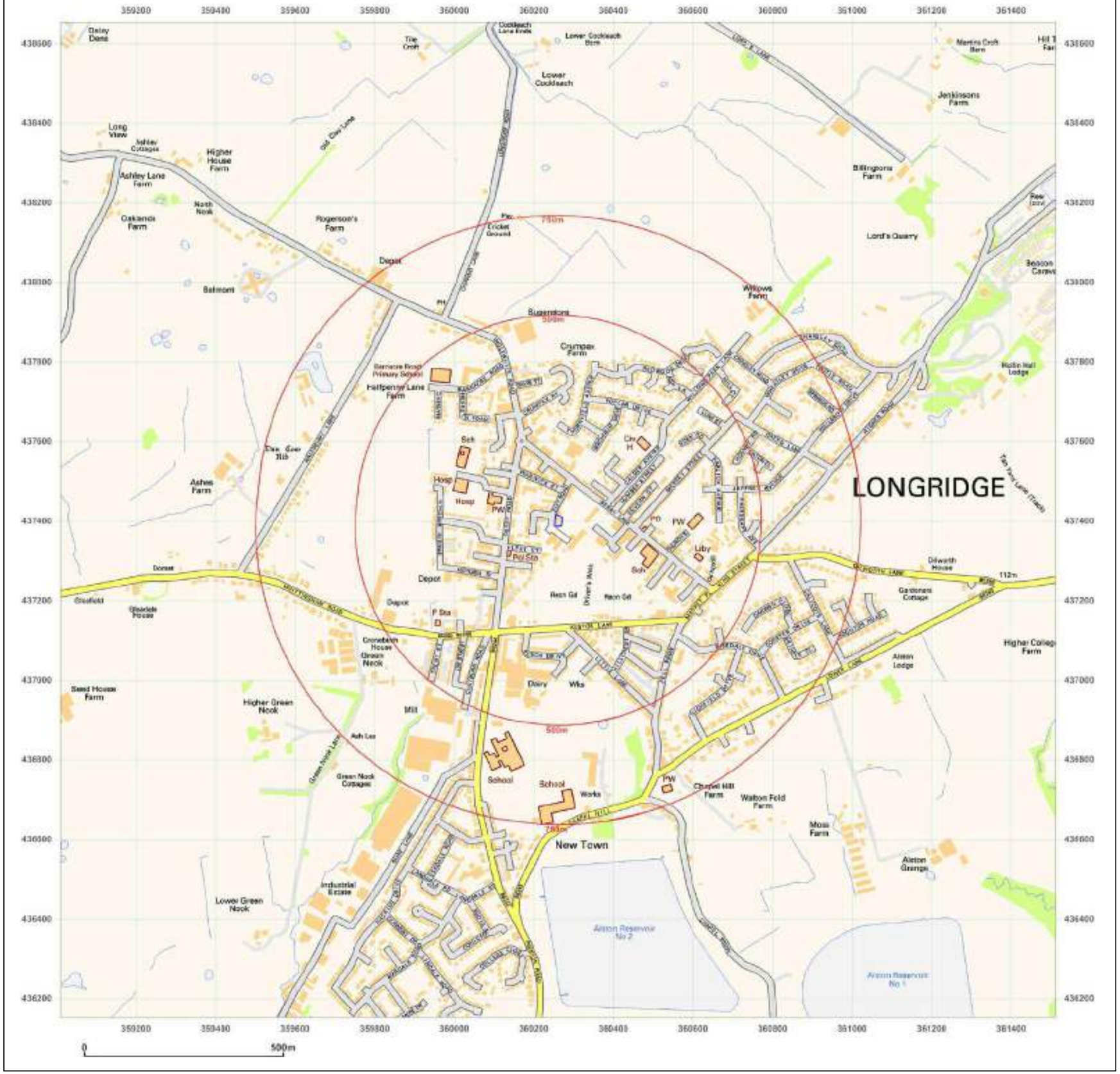

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

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

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2010

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Production date: 30 September 2020

Map legend available at:
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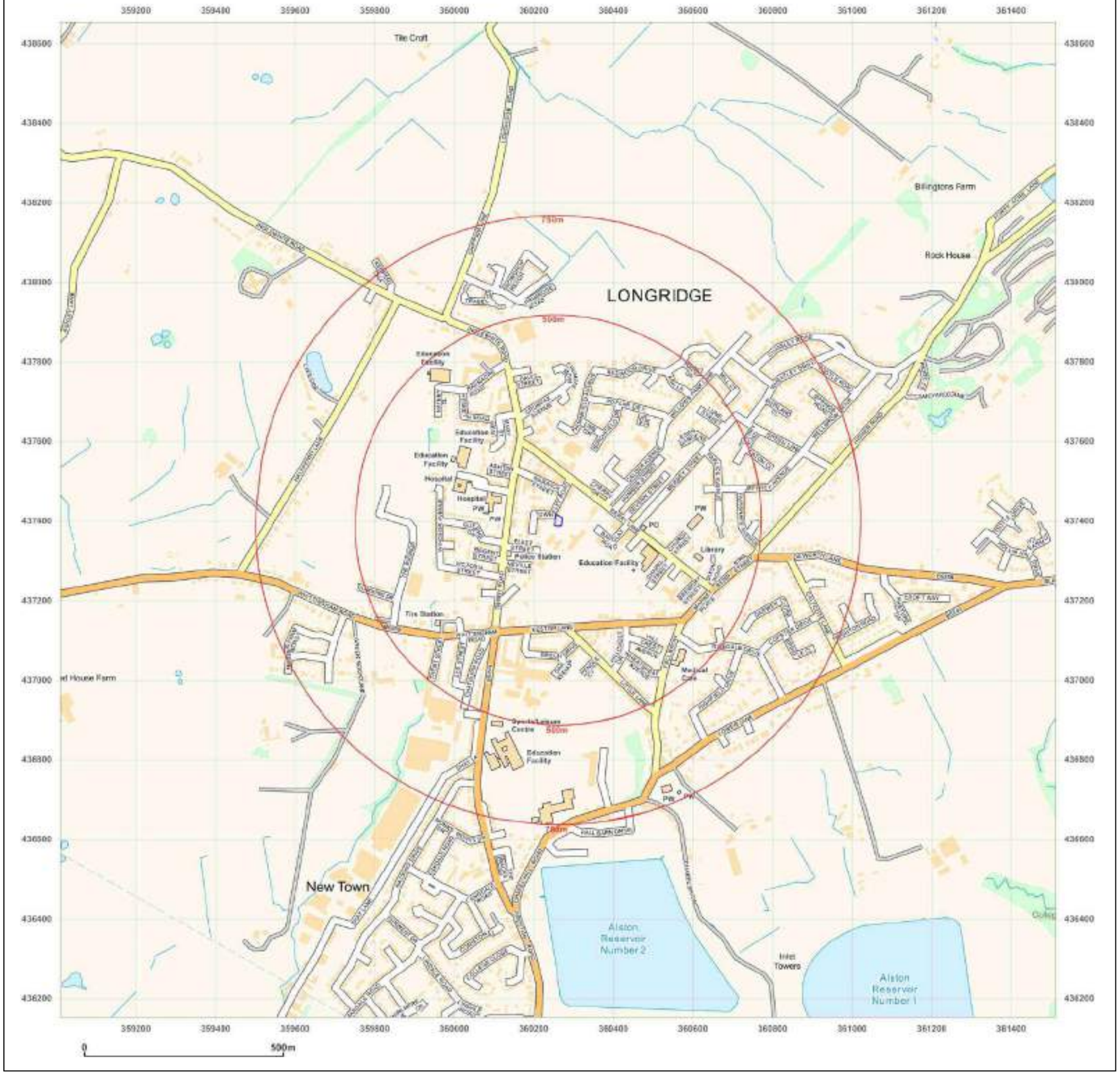

CENTRE MAPS LIVE.

Site Details:

Client Ref: 29721
Report Ref: CMAPS-CM-905566-29721-300920HIS
Grid Ref: 360261, 437403

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

N
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2020

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Production date: 30 September 2020

Map legend available at:
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APPENDIX B

Enviro+GeoInsight Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo
Insight

360260 437402

Order Details

Date: 30/09/2020

Your ref: 29721

Our Ref: CMAPS-CM-905566-29721-300920EDRGEO

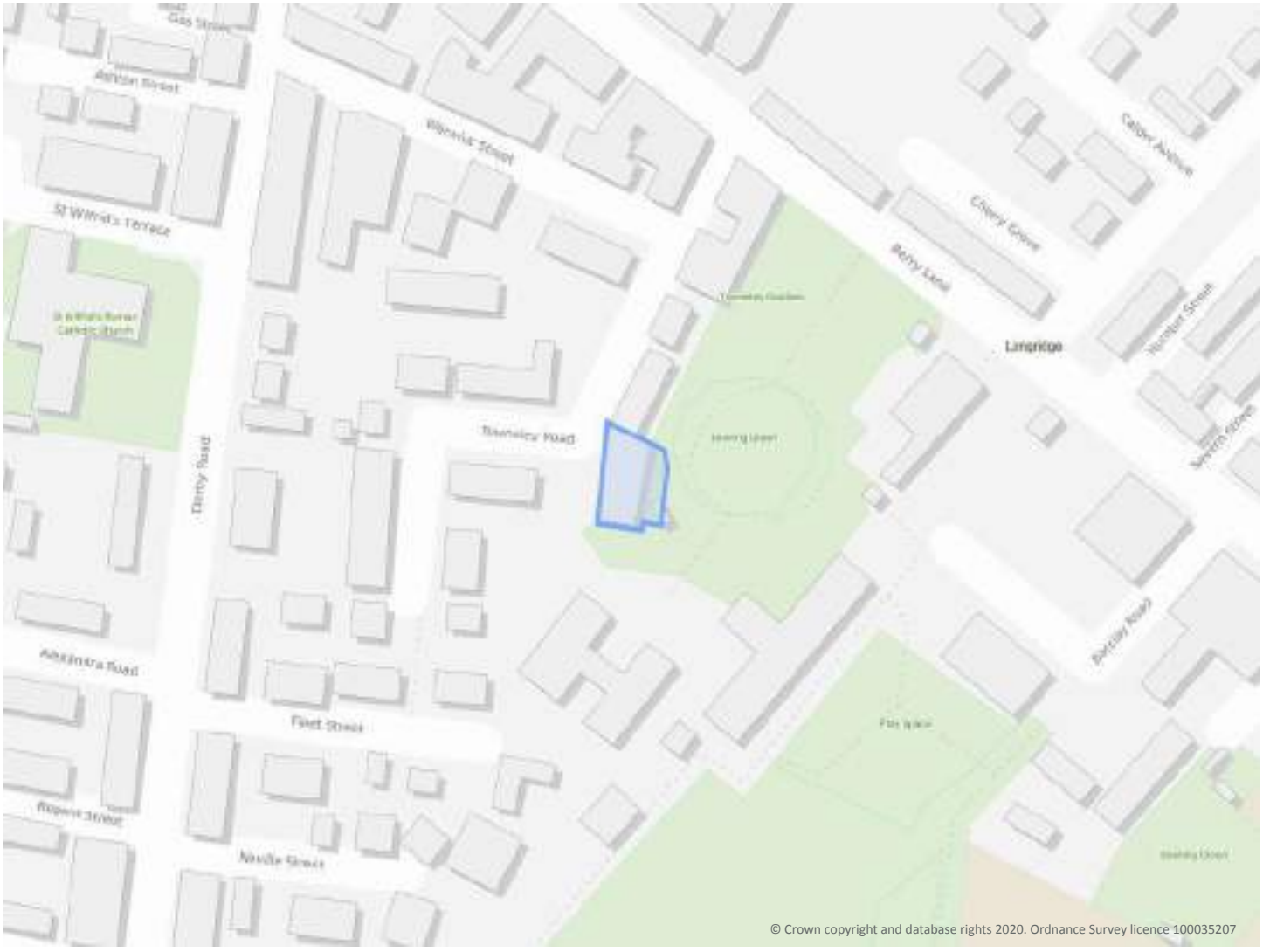
Client: CENTREMAPS

Site Details

Location: 360260 437402

Area: 0.05 ha

Authority: Ribble Valley Borough Council



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
13	1.1	Historical industrial land uses	0	3	35	39	-
16	1.2	Historical tanks	0	0	9	4	-
17	1.3	Historical energy features	0	0	6	19	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	14	4	-
20	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
21	2.1	Historical industrial land uses	0	7	54	45	-
25	2.2	Historical tanks	0	0	14	12	-
27	2.3	Historical energy features	0	0	23	64	-
30	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	46	10	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	1	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
34	3.5	Historical waste sites	0	0	0	0	-
34	3.6	Licensed waste sites	0	0	0	0	-
35	3.7	Waste exemptions	0	0	0	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
36	4.1	Recent industrial land uses	0	0	17	-	-
38	4.2	Current or recent petrol stations	0	0	1	2	-
38	4.3	Electricity cables	0	0	0	0	-
38	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-

39	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
39	4.7	Regulated explosive sites	0	0	0	0	-
39	4.8	Hazardous substance storage/usage	0	0	0	0	-
39	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
40	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	3	3	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
41	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	1	3	-
42	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
43	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
44	**5.1**	**Superficial aquifer**	Identified (within 500m)				
46	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
48	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
49	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
49	5.5	Groundwater vulnerability- local information	None (within 0m)				
50	**5.6**	**Groundwater abstractions**	0	0	0	2	0
51	5.7	Surface water abstractions	0	0	0	0	0
51	5.8	Potable abstractions	0	0	0	0	0
52	5.9	Source Protection Zones	0	0	0	0	-
52	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
53	6.1	Water Network (OS MasterMap)	0	0	0	-	-

53	6.2	Surface water features	0	0	0	-	-
54	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
54	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
55	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
56	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
56	7.2	Historical Flood Events	0	0	0	-	-
56	7.3	Flood Defences	0	0	0	-	-
56	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
57	7.5	Flood Storage Areas	0	0	0	-	-
58	7.6	Flood Zone 2	None (within 50m)				
58	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
59	**8.1**	**Surface water flooding**	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
61	**9.1**	**Groundwater flooding**	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
62	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
63	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
63	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
63	10.4	Special Protection Areas (SPA)	0	0	0	0	0
63	10.5	National Nature Reserves (NNR)	0	0	0	0	0
64	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
64	**10.7**	**Designated Ancient Woodland**	0	0	0	0	2
64	10.8	Biosphere Reserves	0	0	0	0	0
64	10.9	Forest Parks	0	0	0	0	0
65	10.10	Marine Conservation Zones	0	0	0	0	0
65	10.11	Green Belt	0	0	0	0	0
65	10.12	Proposed Ramsar sites	0	0	0	0	0

65	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
65	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
66	10.15	Nitrate Sensitive Areas	0	0	0	0	0
66	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
67	**10.17**	**SSSI Impact Risk Zones**	2	-	-	-	-
68	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	11.1	World Heritage Sites	0	0	0	-	-
70	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
70	11.3	National Parks	0	0	0	-	-
70	**11.4**	**Listed Buildings**	0	0	2	-	-
71	**11.5**	**Conservation Areas**	1	0	0	-	-
71	11.6	Scheduled Ancient Monuments	0	0	0	-	-
71	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
73	12.2	Open Access Land	0	0	0	-	-
73	12.3	Tree Felling Licences	0	0	0	-	-
73	12.4	Environmental Stewardship Schemes	0	0	0	-	-
73	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	13.1	Priority Habitat Inventory	0	0	0	-	-
74	13.2	Habitat Networks	0	0	0	-	-
74	13.3	Open Mosaic Habitat	0	0	0	-	-
74	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
75	**14.1**	**10k Availability**	Identified (within 500m)				
76	14.2	Artificial and made ground (10k)	0	0	0	0	-
77	14.3	Superficial geology (10k)	0	0	0	0	-

77	14.4	Landslip (10k)	0	0	0	0	-
78	14.5	Bedrock geology (10k)	0	0	0	0	-
78	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
79	**15.1**	**50k Availability**	Identified (within 500m)				
80	15.2	Artificial and made ground (50k)	0	0	0	0	-
80	15.3	Artificial ground permeability (50k)	0	0	-	-	-
81	**15.4**	**Superficial geology (50k)**	1	0	0	0	-
82	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
82	15.6	Landslip (50k)	0	0	0	0	-
82	15.7	Landslip permeability (50k)	None (within 50m)				
83	**15.8**	**Bedrock geology (50k)**	1	0	2	2	-
84	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
84	**15.10**	**Bedrock faults and other linear features (50k)**	0	0	1	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
85	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
86	**17.1**	**Shrink swell clays**	Very low (within 50m)				
87	**17.2**	**Running sands**	Very low (within 50m)				
88	**17.3**	**Compressible deposits**	Negligible (within 50m)				
89	**17.4**	**Collapsible deposits**	Very low (within 50m)				
90	**17.5**	**Landslides**	Very low (within 50m)				
91	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
92	18.1	Natural cavities	0	0	0	0	-
93	18.2	BritPits	0	0	0	0	-
93	**18.3**	**Surface ground workings**	0	5	5	-	-
93	**18.4**	**Underground workings**	0	0	0	0	5
94	**18.5**	**Historical Mineral Planning Areas**	0	0	0	1	-

94	**18.6**	**Non-coal mining**	1	0	1	2	0
95	18.7	Mining cavities	0	0	0	0	0
95	18.8	JPB mining areas	None (within 0m)				
95	18.9	Coal mining	None (within 0m)				
96	18.10	Brine areas	None (within 0m)				
96	18.11	Gypsum areas	None (within 0m)				
96	18.12	Tin mining	None (within 0m)				
96	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
97	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
98	**20.1**	**BGS Estimated Background Soil Chemistry**	1	0	-	-	-
98	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
98	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
99	21.1	Underground railways (London)	0	0	0	-	-
99	21.2	Underground railways (Non-London)	0	0	0	-	-
100	21.3	Railway tunnels	0	0	0	-	-
100	**21.4**	**Historical railway and tunnel features**	0	2	6	-	-
100	21.5	Royal Mail tunnels	0	0	0	-	-
101	**21.6**	**Historical railways**	0	1	1	-	-
101	21.7	Railways	0	0	0	-	-
101	21.8	Crossrail 1	0	0	0	0	-
101	21.9	Crossrail 2	0	0	0	0	-
102	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 03/04/2017

Site Area: 0.05ha

Recent site history - 2013 aerial photograph

Capture Date: 25/05/2013

Site Area: 0.05ha

Recent site history - 2001 aerial photograph

Capture Date: 07/05/2001

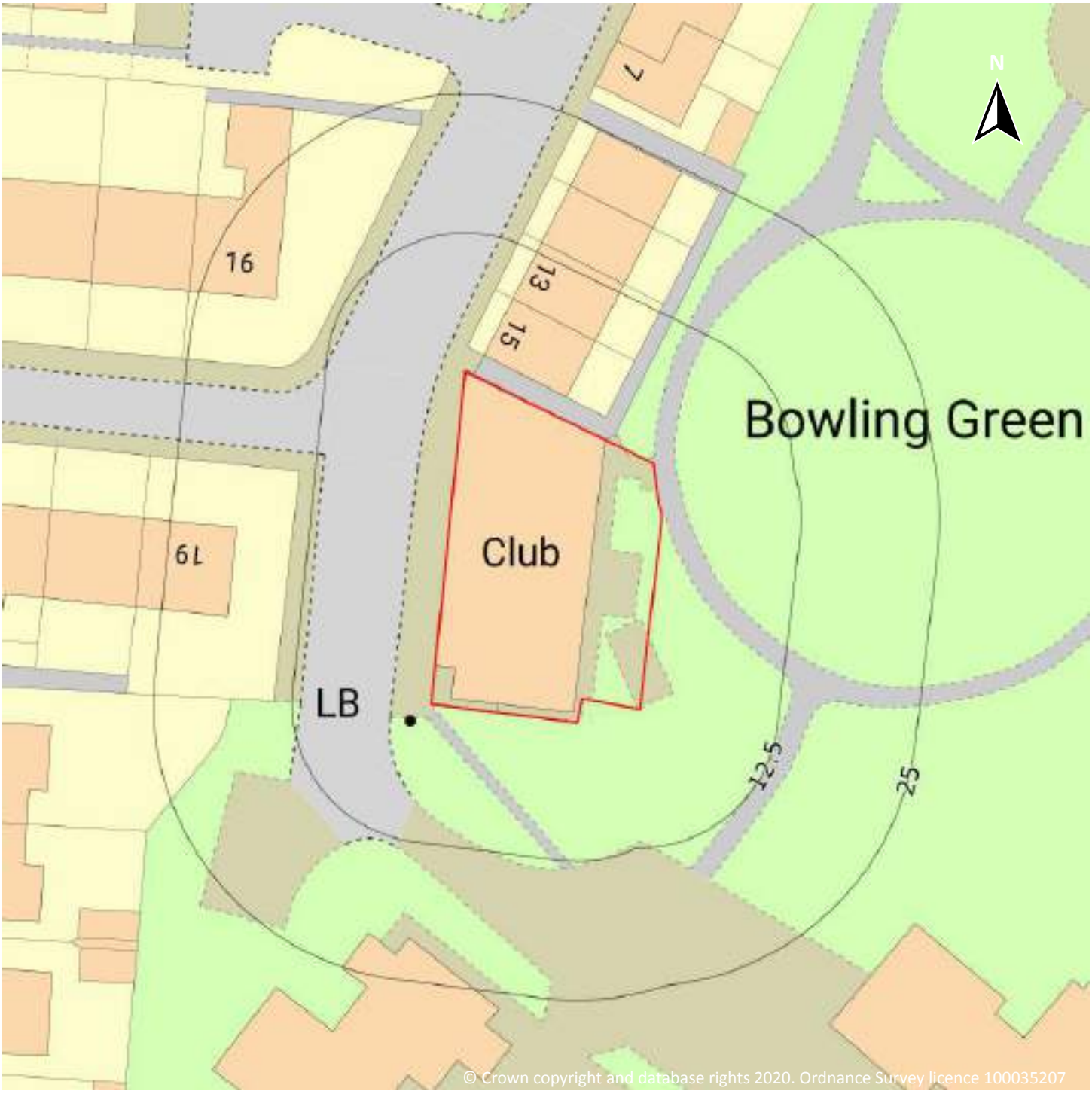
Site Area: 0.05ha

Recent site history - 2000 aerial photograph

Capture Date: 08/05/2000

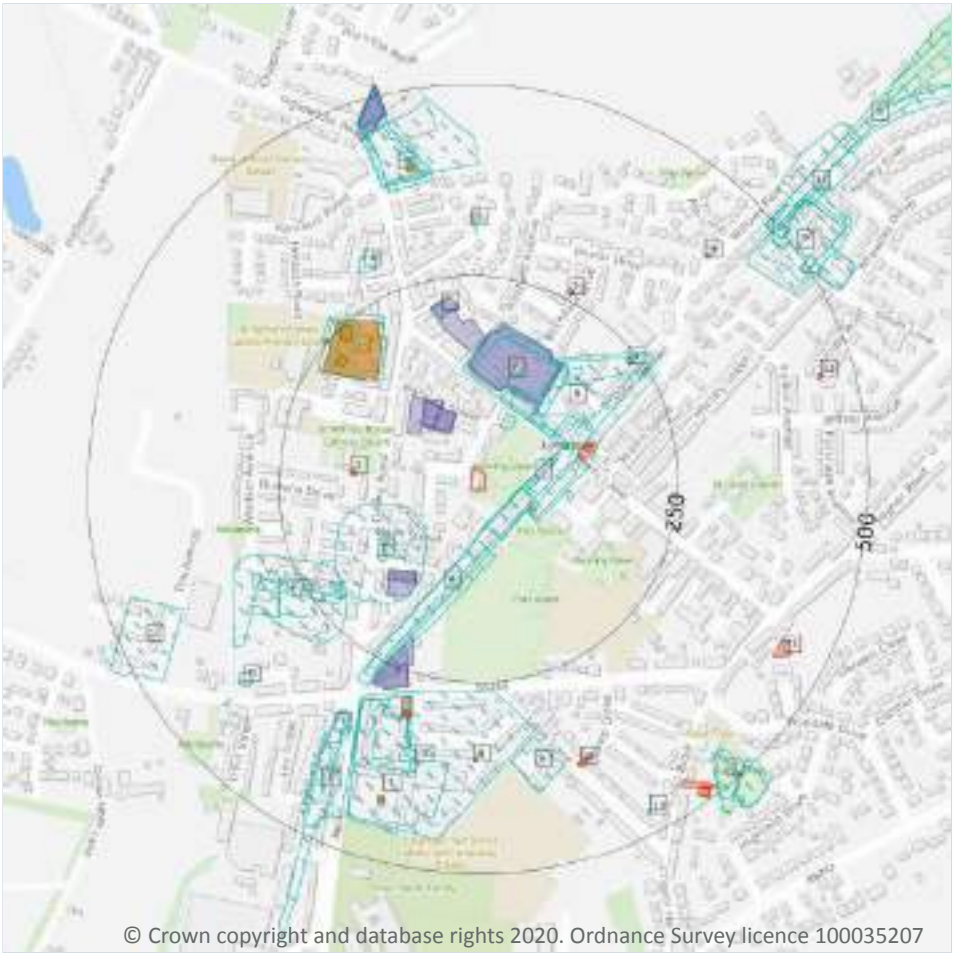
Site Area: 0.05ha

OS MasterMap site plan



Site Area: 0.05ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	77

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 13**

ID	Location	Land use	Dates present	Group ID
A	32m SE	Cuttings	1994	695555

ID	Location	Land use	Dates present	Group ID
A	34m SE	Cuttings	1910 - 1969	781100
B	34m SE	Railway Sidings	1910 - 1932	713130
B	51m E	Railway Sidings	1951	787965
C	51m E	Railway Station	1910 - 1932	761930
C	56m E	Railway Station	1951	764886
B	63m NE	Fire Station	1969	641082
B	65m SE	Railway Sidings	1892	721067
C	65m SE	Railway Building	1910 - 1932	742554
A	76m S	Cuttings	1892	707214
E	77m SW	Police Station	1910 - 1932	704881
F	88m NE	Cotton Mill	1910	644181
F	88m NE	Unspecified Mill	1932 - 1951	737192
B	89m NE	Railway Building	1910 - 1932	781823
B	90m NE	Railway Building	1910 - 1932	780205
F	91m NE	Unspecified Mill	1892	742941
B	94m NE	Railway Buildings	1892	681585
B	105m NE	Railway Building	1910 - 1932	717227
C	106m E	Railway Station	1892	672343
E	111m SW	Police Station	1892	732201
B	119m NE	Railway Buildings	1910 - 1932	765526
E	119m SW	Police Station	1951	762816
B	127m NE	Railway Building	1951	669731
B	129m NE	Railway Building	1892	669734
B	157m NE	Railway Building	1932 - 1951	718999
H	164m NW	Gas Works	1892 - 1910	750623
H	174m NW	Unspecified Commercial/Industrial	1932 - 1951	751090
G	198m N	Garage	1969 - 1994	754654
J	204m SW	Bobbin Works	1892 - 1910	717412

ID	Location	Land use	Dates present	Group ID
H	206m NW	Gasometer	1892 - 1910	786826
J	210m SW	Unspecified Mill	1969	656958
J	217m SW	Corn Mill	1932	672529
H	218m NW	Unspecified Tank	1932 - 1951	743853
H	224m NW	Gasometer	1892 - 1910	755866
K	235m NE	Railway Building	1910 - 1932	738855
H	237m NW	Unspecified Tank	1910 - 1932	704249
H	237m NW	Unspecified Tank	1932 - 1951	788792
K	242m NE	Railway Building	1951	669730
3	261m S	Unspecified Mill	1892	753460
J	277m SW	Unspecified Depot	1994	668754
I	279m S	Unspecified Commercial/Industrial	1994	643069
I	279m S	Unspecified Mill	1969	738652
4	286m NW	Smithy	1892	692812
I	292m S	Cotton Mill	1910	723698
I	292m S	Cotton Mill	1932	765574
I	298m S	Unspecified Mill	1951	779222
5	305m N	Pipe	1846	656379
6	328m S	Unspecified Works	1969 - 1994	766057
L	330m SW	Railway Sidings	1910 - 1932	699785
7	332m SW	Cuttings	1892	642189
L	332m SW	Railway Sidings	1951	703425
N	372m SW	Fire Station	1994	641083
O	376m N	Unspecified Mills	1892	653162
O	383m N	Bone and Corn Mills	1910	651985
O	383m N	Bobbin Works	1932	675330
L	384m SW	Cuttings	1892	642188
O	386m N	Dairy	1969 - 1994	711834

ID	Location	Land use	Dates present	Group ID
O	389m N	Unspecified Works	1951	678665
O	392m N	Smithy	1892	692815
10	407m SW	Unspecified Depot	1968 - 1994	755500
O	410m N	Smithy	1910	692814
N	415m SW	Pipe	1846	656388
I	422m S	Gasometer	1910	655014
P	437m NE	Unspecified Works	1969 - 1994	723929
Q	456m SE	Unspecified Quarry	1892	666909
Q	458m SE	Unspecified Old Quarry	1910	680524
P	459m NE	Unspecified Mill	1951	694668
O	468m N	Garage	1969 - 1994	714851
13	469m SE	Pipe	1846	656395
P	483m NE	Cotton Mill	1910	720340
P	483m NE	Unspecified Mill	1892	737128
P	483m NE	Cotton Mill	1932	748737
R	486m NE	Railway Sidings	1932	738814
14	489m NE	Railway Sidings	1951	755677
R	490m NE	Railway Sidings	1892	763272
Q	490m SE	Unspecified Heap	1892	698718
Q	497m SE	Unspecified Heap	1910	722313

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**13**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	60m E	Unspecified Tank	1892	82103
C	63m SE	Unspecified Tank	1932	82102
H	170m NW	Gas Works	1892 - 1912	98555
H	213m NW	Unspecified Tank	1932	82105
H	213m NW	Gasometer	1892 - 1912	99718
H	231m NW	Unspecified Tank	1932	82104
H	231m NW	Gasometer	1892 - 1912	100270
H	232m NW	Unspecified Tank	1892 - 1932	95713
H	248m NW	Unspecified Tank	1932	82106
8	347m S	Unspecified Tank	1892	82101
O	392m N	Unspecified Tank	1995 - 1996	102328
O	394m N	Unspecified Tank	1961 - 1998	96419
I	416m S	Gasometer	1892 - 1912	96548

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**25**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
B	123m E	Electricity Substation	1961 - 1999	57559
B	132m E	Electricity Substation	1967 - 1974	55240
1	150m W	Electricity Substation	1981 - 1999	49225
H	170m NW	Gas Works	1892 - 1912	52509
H	213m NW	Gasometer	1892 - 1912	55104

ID	Location	Land use	Dates present	Group ID
H	231m NW	Gasometer	1892 - 1912	51988
2	258m NE	Electricity Substation	1961 - 1999	48406
I	280m S	Electricity Substation	1967 - 1974	59167
I	300m S	Electricity Substation	1961 - 1992	58142
I	303m S	Electricity Substation	1995 - 1999	49382
M	372m S	Electricity Substation	1967 - 1974	49314
M	372m S	Electricity Substation	1961 - 1999	57946
9	405m NE	Electricity Substation	1998 - 1999	58332
I	416m S	Gasometer	1892 - 1912	53709
11	435m SE	Electricity Substation	1961 - 1999	48565
12	451m E	Electricity Substation	1961 - 1999	48899
Q	459m SE	Electricity Substation	1995	54110
Q	478m SE	Electricity Substation	1996 - 1999	49187
Q	480m SE	Electricity Substation	1990	53839
Q	480m SE	Electricity Substation	1981	47080
Q	480m SE	Electricity Substation	1992	52268
Q	480m SE	Electricity Substation	1988	54860
Q	480m SE	Electricity Substation	1961	56043
Q	480m SE	Electricity Substation	1977 - 1996	47490
O	488m N	Electricity Substation	1999	44837

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	18

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
D	52m NW	Garage	1995 - 1996	19161
D	55m NW	Garage	1961 - 1992	17853
D	57m NW	Garage	1967 - 1974	18869
D	72m NW	Garage	1998 - 1999	19496
F	104m N	Garage	1995 - 1999	17727
F	104m N	Garage	1988 - 1992	17818
E	128m SW	Garage	1995 - 1999	17863
E	128m SW	Garage	1961 - 1992	18870
E	128m SW	Garage	1967 - 1974	17397
G	150m N	Garage	1961 - 1999	18514
G	199m N	Garage	1967 - 1974	18320
I	204m S	Garage	1995 - 1999	17689
I	217m SW	Garage	1961 - 1992	18883
I	242m S	Garage	1967 - 1974	19473
O	451m N	Garage	1995 - 1998	18370
O	457m N	Garage	1999	15968
O	468m N	Garage	1967 - 1974	19374
O	468m N	Garage	1961 - 1992	17477

This data is sourced from Ordnance Survey / Groundsure.

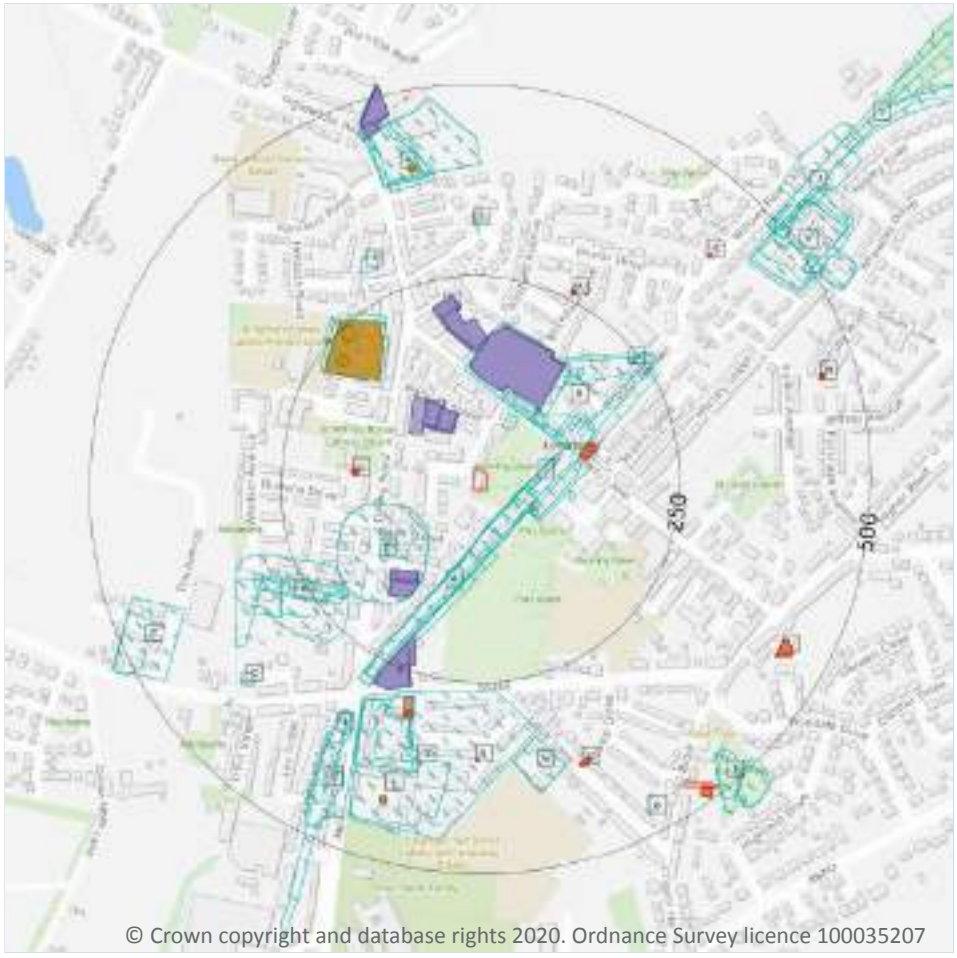
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	106

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 21**

ID	Location	Land Use	Date	Group ID
A	32m SE	Cuttings	1994	695555
A	34m SE	Cuttings	1951	781100
A	34m SE	Cuttings	1969	781100

ID	Location	Land Use	Date	Group ID
A	34m SE	Cuttings	1932	781100
A	34m SE	Cuttings	1910	781100
B	34m SE	Railway Sidings	1932	713130
B	34m SE	Railway Sidings	1910	713130
B	51m E	Railway Sidings	1951	787965
C	51m E	Railway Station	1932	761930
C	51m E	Railway Station	1910	761930
C	56m E	Railway Station	1951	764886
B	63m NE	Fire Station	1969	641082
B	65m SE	Railway Sidings	1892	721067
C	65m SE	Railway Building	1932	742554
C	65m SE	Railway Building	1910	742554
A	76m S	Cuttings	1892	707214
E	77m SW	Police Station	1932	704881
E	77m SW	Police Station	1910	704881
F	88m NE	Unspecified Mill	1932	737192
F	88m NE	Cotton Mill	1910	644181
B	89m NE	Railway Building	1932	781823
B	89m NE	Railway Building	1910	781823
B	90m NE	Railway Building	1932	780205
B	90m NE	Railway Building	1910	780205
F	91m NE	Unspecified Mill	1892	742941
B	94m NE	Railway Buildings	1892	681585
F	98m NE	Unspecified Mill	1951	737192
B	105m NE	Railway Building	1932	717227
B	105m NE	Railway Building	1910	717227
C	106m E	Railway Station	1892	672343
E	111m SW	Police Station	1892	732201

ID	Location	Land Use	Date	Group ID
B	119m NE	Railway Buildings	1932	765526
B	119m NE	Railway Buildings	1910	765526
E	119m SW	Police Station	1951	762816
B	127m NE	Railway Building	1951	669731
B	129m NE	Railway Building	1892	669734
B	157m NE	Railway Building	1932	718999
I	164m NW	Gas Works	1892	750623
B	166m NE	Railway Building	1951	718999
I	174m NW	Unspecified Commercial/Industrial	1951	751090
I	181m NW	Unspecified Commercial/Industrial	1932	751090
I	181m NW	Gas Works	1910	750623
H	198m N	Garage	1969	754654
H	198m N	Garage	1994	754654
K	204m SW	Bobbin Works	1910	717412
I	206m NW	Gasometer	1892	786826
K	210m SW	Unspecified Mill	1969	656958
K	217m SW	Corn Mill	1932	672529
I	218m NW	Unspecified Tank	1951	743853
I	219m NW	Gasometer	1910	786826
I	219m NW	Unspecified Tank	1932	743853
K	223m SW	Bobbin Works	1892	717412
I	224m NW	Gasometer	1892	755866
L	235m NE	Railway Building	1932	738855
L	235m NE	Railway Building	1910	738855
I	237m NW	Unspecified Tank	1932	704249
I	237m NW	Unspecified Tank	1910	704249
I	237m NW	Gasometer	1910	755866
I	237m NW	Unspecified Tank	1932	788792

ID	Location	Land Use	Date	Group ID
I	237m NW	Unspecified Tank	1951	788792
L	242m NE	Railway Building	1951	669730
1	261m S	Unspecified Mill	1892	753460
K	277m SW	Unspecified Depot	1994	668754
J	279m S	Unspecified Mill	1969	738652
J	279m S	Unspecified Commercial/Industrial	1994	643069
2	286m NW	Smithy	1892	692812
J	292m S	Cotton Mill	1932	765574
J	292m S	Cotton Mill	1910	723698
J	298m S	Unspecified Mill	1951	779222
3	305m N	Pipe	1846	656379
N	328m S	Unspecified Works	1969	766057
N	328m S	Unspecified Works	1994	766057
O	330m SW	Railway Sidings	1932	699785
O	330m SW	Railway Sidings	1910	699785
4	332m SW	Cuttings	1892	642189
O	332m SW	Railway Sidings	1951	703425
Q	372m SW	Fire Station	1994	641083
R	376m N	Unspecified Mills	1892	653162
R	383m N	Bobbin Works	1932	675330
R	383m N	Bone and Corn Mills	1910	651985
O	384m SW	Cuttings	1892	642188
R	386m N	Dairy	1969	711834
R	386m N	Dairy	1994	711834
R	389m N	Unspecified Works	1951	678665
R	392m N	Smithy	1892	692815
T	407m SW	Unspecified Depot	1994	755500
R	410m N	Smithy	1910	692814

ID	Location	Land Use	Date	Group ID
Q	415m SW	Pipe	1846	656388
J	422m S	Gasometer	1910	655014
V	437m NE	Unspecified Works	1969	723929
V	441m NE	Unspecified Works	1994	723929
T	451m SW	Unspecified Depot	1968	755500
X	456m SE	Unspecified Quarry	1892	666909
X	458m SE	Unspecified Old Quarry	1910	680524
V	459m NE	Unspecified Mill	1951	694668
R	468m N	Garage	1969	714851
R	468m N	Garage	1994	714851
6	469m SE	Pipe	1846	656395
V	483m NE	Cotton Mill	1932	748737
V	483m NE	Cotton Mill	1910	720340
V	483m NE	Unspecified Mill	1892	737128
Y	486m NE	Railway Sidings	1932	738814
7	489m NE	Railway Sidings	1951	755677
Y	490m NE	Railway Sidings	1892	763272
X	490m SE	Unspecified Heap	1892	698718
X	497m SE	Unspecified Heap	1910	722313

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**26**

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 21**

ID	Location	Land Use	Date	Group ID
C	60m E	Unspecified Tank	1892	82103

ID	Location	Land Use	Date	Group ID
C	63m SE	Unspecified Tank	1932	82102
I	170m NW	Gas Works	1892	98555
I	170m NW	Gas Works	1912	98555
I	213m NW	Gasometer	1892	99718
I	213m NW	Gasometer	1912	99718
I	213m NW	Unspecified Tank	1932	82105
I	231m NW	Gasometer	1892	100270
I	231m NW	Gasometer	1912	100270
I	231m NW	Unspecified Tank	1932	82104
I	232m NW	Unspecified Tank	1892	95713
I	232m NW	Unspecified Tank	1912	95713
I	232m NW	Unspecified Tank	1932	95713
I	248m NW	Unspecified Tank	1932	82106
5	347m S	Unspecified Tank	1892	82101
R	392m N	Unspecified Tank	1996	102328
R	392m N	Unspecified Tank	1995	102328
R	394m N	Unspecified Tank	1998	96419
R	395m N	Unspecified Tank	1961	96419
R	395m N	Unspecified Tank	1981	96419
R	395m N	Unspecified Tank	1988	96419
R	395m N	Unspecified Tank	1992	96419
R	396m N	Unspecified Tank	1974	96419
R	396m N	Unspecified Tank	1967	96419
J	416m S	Gasometer	1892	96548
J	416m S	Gasometer	1912	96548

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**87**

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 21**

ID	Location	Land Use	Date	Group ID
B	123m E	Electricity Substation	1996	57559
B	123m E	Electricity Substation	1995	57559
B	123m E	Electricity Substation	1999	57559
B	123m E	Electricity Substation	1998	57559
B	126m E	Electricity Substation	1961	57559
B	126m E	Electricity Substation	1981	57559
B	126m E	Electricity Substation	1988	57559
B	126m E	Electricity Substation	1992	57559
B	132m E	Electricity Substation	1974	55240
B	132m E	Electricity Substation	1967	55240
G	150m W	Electricity Substation	1996	49225
G	150m W	Electricity Substation	1995	49225
G	151m W	Electricity Substation	1999	49225
G	151m W	Electricity Substation	1998	49225
G	151m W	Electricity Substation	1981	49225
G	151m W	Electricity Substation	1988	49225
G	151m W	Electricity Substation	1992	49225
I	170m NW	Gas Works	1892	52509
I	170m NW	Gas Works	1912	52509
I	213m NW	Gasometer	1892	55104
I	213m NW	Gasometer	1912	55104
I	231m NW	Gasometer	1892	51988
I	231m NW	Gasometer	1912	51988

ID	Location	Land Use	Date	Group ID
M	258m NE	Electricity Substation	1996	48406
M	258m NE	Electricity Substation	1995	48406
M	258m NE	Electricity Substation	1999	48406
M	258m NE	Electricity Substation	1998	48406
M	260m NE	Electricity Substation	1961	48406
M	260m NE	Electricity Substation	1981	48406
M	260m NE	Electricity Substation	1988	48406
M	260m NE	Electricity Substation	1992	48406
J	280m S	Electricity Substation	1974	59167
J	280m S	Electricity Substation	1967	59167
J	300m S	Electricity Substation	1961	58142
J	300m S	Electricity Substation	1981	58142
J	300m S	Electricity Substation	1992	58142
J	303m S	Electricity Substation	1996	49382
J	303m S	Electricity Substation	1995	49382
J	303m S	Electricity Substation	1999	49382
J	303m S	Electricity Substation	1998	49382
P	372m S	Electricity Substation	1974	49314
P	372m S	Electricity Substation	1967	49314
P	372m S	Electricity Substation	1961	57946
P	372m S	Electricity Substation	1981	57946
P	372m S	Electricity Substation	1988	57946
P	372m S	Electricity Substation	1992	57946
P	373m S	Electricity Substation	1996	57946
P	373m S	Electricity Substation	1995	57946
P	373m S	Electricity Substation	1999	57946
P	373m S	Electricity Substation	1998	57946
S	405m NE	Electricity Substation	1999	58332

ID	Location	Land Use	Date	Group ID
S	405m NE	Electricity Substation	1998	58332
J	416m S	Gasometer	1892	53709
J	416m S	Gasometer	1912	53709
U	435m SE	Electricity Substation	1974	48565
U	435m SE	Electricity Substation	1967	48565
U	435m SE	Electricity Substation	1996	48565
U	435m SE	Electricity Substation	1995	48565
U	435m SE	Electricity Substation	1999	48565
U	435m SE	Electricity Substation	1998	48565
U	435m SE	Electricity Substation	1961	48565
U	435m SE	Electricity Substation	1981	48565
U	435m SE	Electricity Substation	1988	48565
U	435m SE	Electricity Substation	1992	48565
W	451m E	Electricity Substation	1996	48899
W	451m E	Electricity Substation	1995	48899
W	451m E	Electricity Substation	1999	48899
W	451m E	Electricity Substation	1998	48899
W	452m E	Electricity Substation	1974	48899
W	452m E	Electricity Substation	1967	48899
W	453m E	Electricity Substation	1961	48899
W	453m E	Electricity Substation	1981	48899
W	453m E	Electricity Substation	1988	48899
W	453m E	Electricity Substation	1992	48899
X	459m SE	Electricity Substation	1995	54110
X	478m SE	Electricity Substation	1996	49187
X	478m SE	Electricity Substation	1999	49187
X	478m SE	Electricity Substation	1998	49187
X	480m SE	Electricity Substation	1990	53839

ID	Location	Land Use	Date	Group ID
X	480m SE	Electricity Substation	1961	56043
X	480m SE	Electricity Substation	1981	47080
X	480m SE	Electricity Substation	1988	54860
X	480m SE	Electricity Substation	1992	52268
X	480m SE	Electricity Substation	1996	47490
X	481m SE	Electricity Substation	1981	47490
X	481m SE	Electricity Substation	1977	47490
R	488m N	Electricity Substation	1999	44837

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**56**

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

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
D	52m NW	Garage	1996	19161
D	52m NW	Garage	1995	19161
D	55m NW	Garage	1961	17853
D	55m NW	Garage	1981	17853
D	55m NW	Garage	1988	17853

ID	Location	Land Use	Date	Group ID
D	55m NW	Garage	1992	17853
D	57m NW	Garage	1974	18869
D	57m NW	Garage	1967	18869
D	72m NW	Garage	1999	19496
D	72m NW	Garage	1998	19496
F	104m N	Garage	1988	17818
F	104m N	Garage	1992	17818
F	104m N	Garage	1999	17727
F	104m N	Garage	1998	17727
F	104m N	Garage	1996	17727
F	104m N	Garage	1995	17727
E	128m SW	Garage	1961	18870
E	128m SW	Garage	1981	18870
E	128m SW	Garage	1988	18870
E	128m SW	Garage	1992	18870
E	128m SW	Garage	1999	17863
E	128m SW	Garage	1998	17863
E	128m SW	Garage	1996	17863
E	128m SW	Garage	1995	17863
E	128m SW	Garage	1974	17397
E	128m SW	Garage	1967	17397
H	150m N	Garage	1999	18514
H	150m N	Garage	1998	18514
H	150m N	Garage	1996	18514
H	150m N	Garage	1995	18514
H	153m N	Garage	1961	18514
H	153m N	Garage	1981	18514
H	153m N	Garage	1988	18514

ID	Location	Land Use	Date	Group ID
H	153m N	Garage	1992	18514
H	199m N	Garage	1974	18320
H	199m N	Garage	1967	18320
J	204m S	Garage	1999	17689
J	204m S	Garage	1998	17689
J	204m S	Garage	1996	17689
J	204m S	Garage	1995	17689
J	217m SW	Garage	1961	18883
J	217m SW	Garage	1981	18883
J	217m SW	Garage	1988	18883
J	217m SW	Garage	1992	18883
J	242m S	Garage	1974	19473
J	242m S	Garage	1967	19473
R	451m N	Garage	1998	18370
R	451m N	Garage	1996	18370
R	451m N	Garage	1995	18370
R	457m N	Garage	1999	15968
R	468m N	Garage	1974	19374
R	468m N	Garage	1967	19374
R	468m N	Garage	1961	17477
R	468m N	Garage	1981	17477
R	468m N	Garage	1988	17477
R	468m N	Garage	1992	17477

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

Site Outline

Search buffers in metres (m)

Active or recent landfill

Waste exemptions

3.1 Active or recent landfill

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Details	
1	477m S	Operator: United Utilities Water Limited Site Address: Chapel Hill Quarry, Longridge, Preston, Lancashire, PR3	WML Number: 54011 EPR Reference: NOR001 Landfill type: A05: Landfill taking Non-Biodegradeable Wastes Status: Modified IPPC Reference: - EPR Number: EA/EPR/TP3891CU/V009

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	2

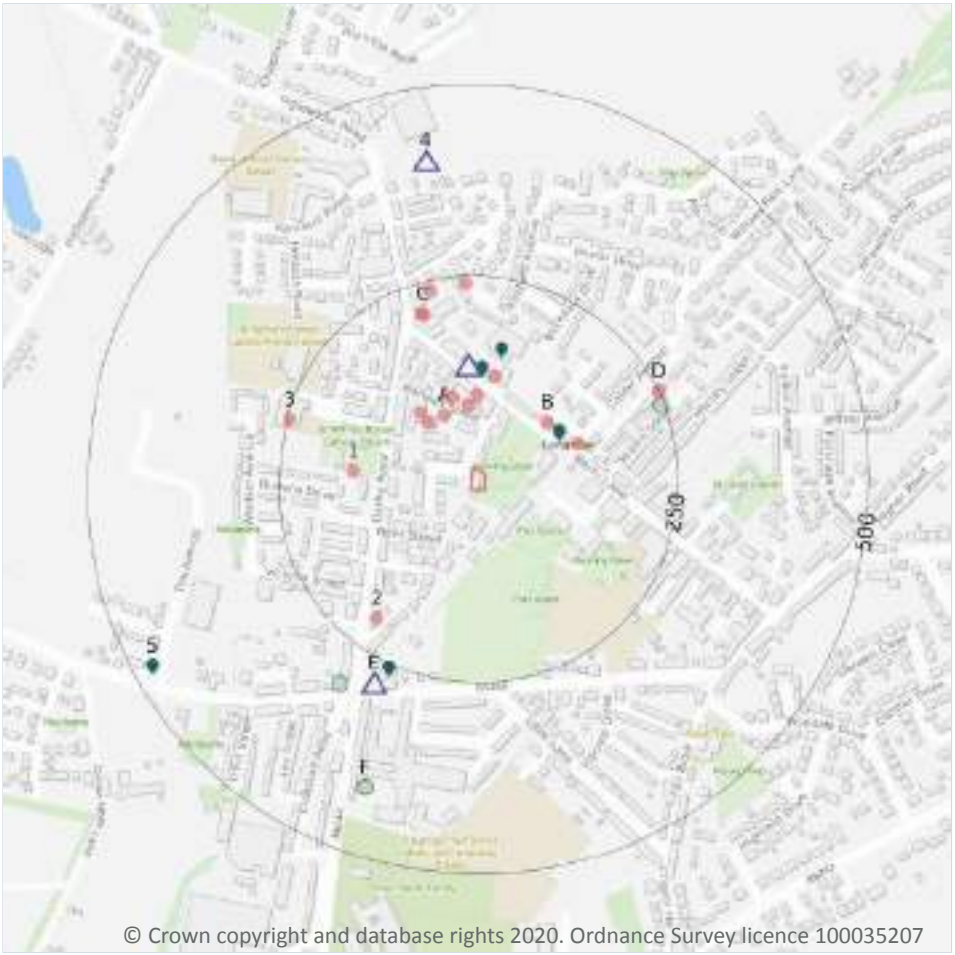
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	473m SW	Longfield, Whittingham Road, Longridge, Preston, PR3 2AD	WEX195186	Using waste exemption	Not on a farm	Use of waste in construction
A	473m SW	Former Ridings Depot, Whittingham Road, Longridge, Preston, PR3 2AD	WEX112824	Using waste exemption	Not on a farm	Use of waste in construction

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	17

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 36**

ID	Location	Company	Address	Activity	Category
A	77m NW	Aps	Central Garage, Warwick Street, Longridge, Lancashire, PR3 3EB	Published Goods	Industrial Products
A	82m NW	Warwick Street Motors Ltd	Warwick Street, Longridge, Preston, Lancashire, PR3 3EB	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
A	82m N	Advanced Print Solutions	The Old Corn Mill, Warwick Street, Longridge, Preston, Lancashire, PR3 3EB	Signs	Industrial Products
A	94m N	Swift's Hardware	53-57, Berry Lane, Longridge, Preston, Lancashire, PR3 3NH	General Construction Supplies	Industrial Products
A	95m N	John Barton Printing	The Printworks, Warwick Street, Longridge, Preston, Lancashire, PR3 3EB	Published Goods	Industrial Products
A	98m NW	John Barton Printing Within the Print Works	Unit 4 Enterprise House, Warwick Street, Longridge, Lancashire, PR3 3EB	Plate Makers, Print Finishers and Type Setters	IT, Advertising, Marketing and Media Services
B	105m NE	Goldsmiths Ltd	12, Towneley Parade, Longridge, Preston, Lancashire, PR3 3HU	Jewellery, Gems, Clocks and Watches	Consumer Products
A	122m N	Shell Service Station	Berry Lane, Longridge, Preston, Lancashire, PR3 3NH	Petrol and Fuel Stations	Road and Rail
B	128m E	Electricity Sub Station	Lancashire, PR3	Electrical Features	Infrastructure and Facilities
1	154m W	Electricity Sub Station	Lancashire, PR3	Electrical Features	Infrastructure and Facilities
2	208m SW	John Potter Motor Spares	99, Derby Road, Longridge, Preston, Lancashire, PR3 3EE	Vehicle Parts and Accessories	Motoring
C	210m N	D D Cooling Ltd	Unit 1 90, Berry Lane, Longridge, Preston, Lancashire, PR3 3WH	Electrical Equipment Repair and Servicing	Repair and Servicing
C	210m N	T H G North West Ltd	Unit 2-3 90, Berry Lane, Longridge, Preston, Lancashire, PR3 3WH	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	237m N	Franke Bearings Ltd	Unit 5 90, Berry Lane, Longridge, Preston, Lancashire, PR3 3WH	Bearing, Gear and Drive Elements	Industrial Products
C	240m N	Mast	Lancashire, PR3	Telecommunications Features	Infrastructure and Facilities
3	247m W	Longridge Community Hospital	St. Wilfrids Terrace, Longridge, Preston, Lancashire, PR3 3WQ	Hospitals	Health Practitioners and Establishments
D	250m NE	G J & M A Holden Commercials	19, Humber Street, Longridge, Preston, Lancashire, PR3 3WD	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	3

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 36**

ID	Location	Company	Address	LPG	Status
A	133m N	SHELL	Berry Lane, Longridge, Preston, Lancashire, PR3 3NH	No	Open
E	282m SW	TEXACO	Kestor Lane, Longridge, Preston, Lancashire, PR3 3AE	No	Open
4	404m N	OBSOLETE	60, Inglewhite Road, Longridge, Lancashire, PR3 2NA	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	6

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 36**

ID	Location	Address	Details	
B	109m NE	Longridge Dry Cleaners, 6 Towneley Parade, Longridge, PR3 3HU	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	129m N	EH Booth, Berry Lane, Longbridge, Ribbleton, Preston, PR3 3NH	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	156m N	Syd Brown & Sons Ltd., Berry Lane, Longridge, Preston, Lancashire, PR3 3NH	Process: Waste Oil Burner 0.4 MW Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	256m SW	Bonds Of Longridge Ltd., Stonebridge Garage, Kestor Lane, Longridge, Preston, PR3 3AE	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	256m SW	Bonds Of Longridge Ltd, Stonebridge Garage, Kestor Lane, Longridge, Preston, PR3 3AE	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
5	475m SW	TDG Nexus Logistics, Daniel Platt Garage, Whittingham Road, PR3 2AD	Process: Waste Oil Burner 0.4 MW Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	4

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 36**

ID	Location	Details	
D	246m E	Incident Date: 02/10/2002 Incident Identification: 112152 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	305m SW	Incident Date: 22/02/2002 Incident Identification: 60076 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	412m S	Incident Date: 02/07/2002 Incident Identification: 93006 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	412m S	Incident Date: 02/07/2002 Incident Identification: 93006 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

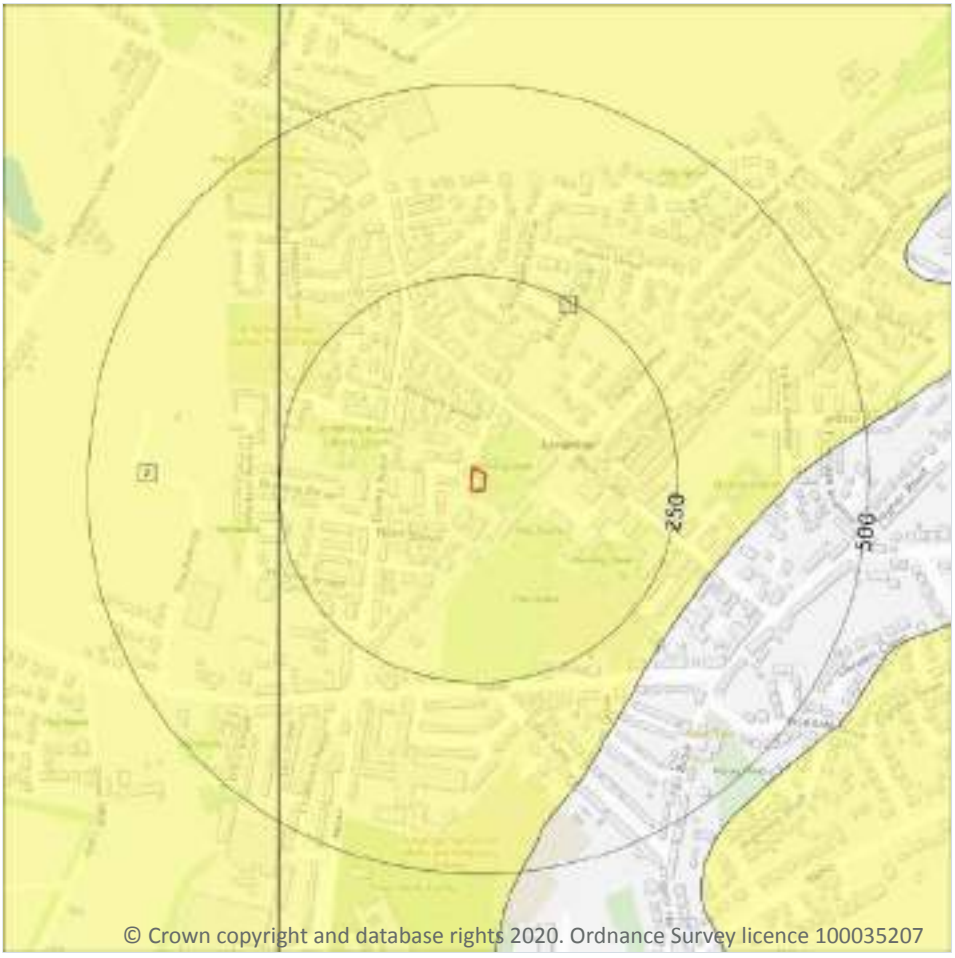
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	2

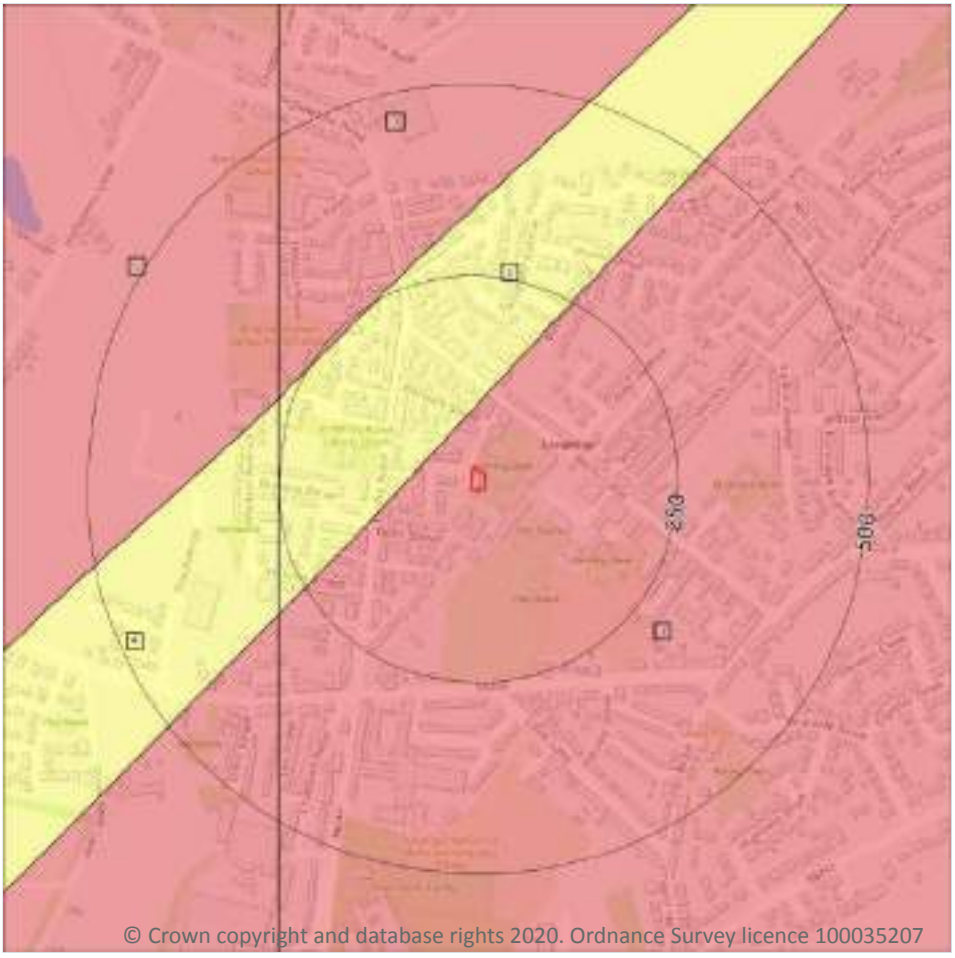
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 44**

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**
2	251m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	5

Aquifer status of groundwater held within bedrock geology.

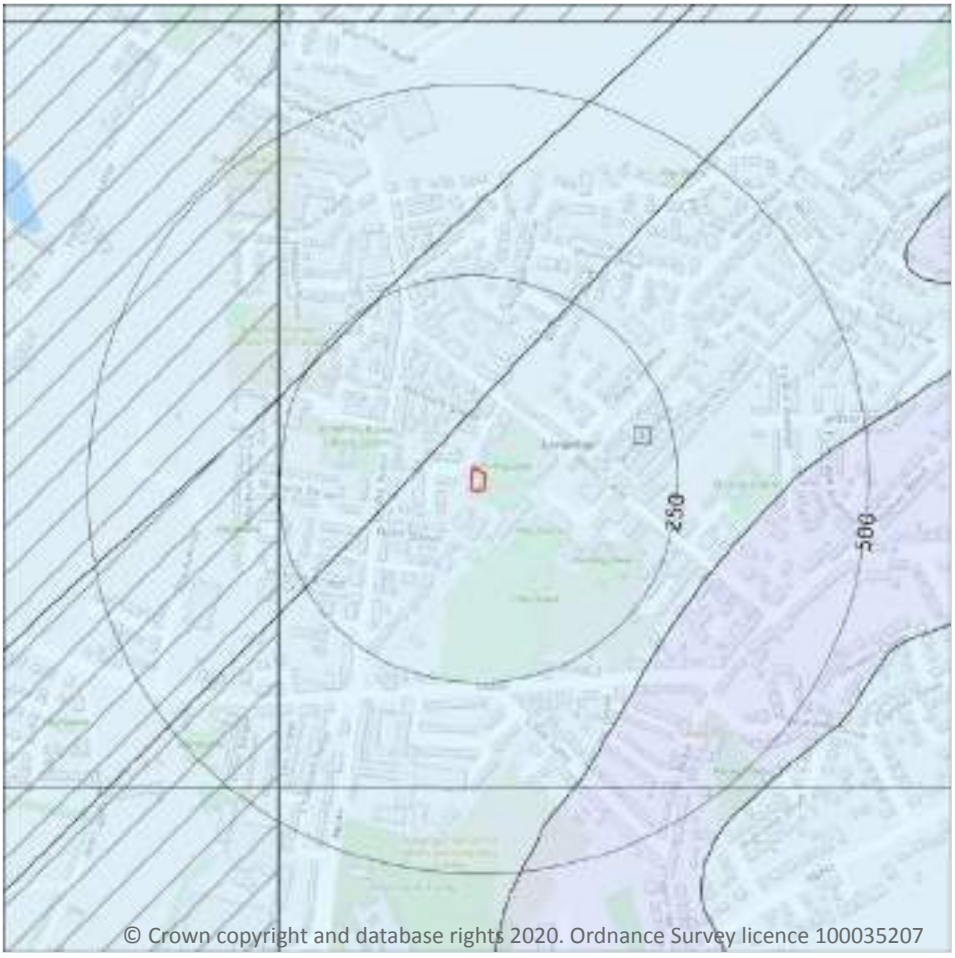
Features are displayed on the Bedrock aquifer map on **page 46**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	51m NW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	243m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	251m W	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
5	269m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 48**

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: 3-10m Patchiness value: >90% Recharge potential: No Data**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones

Site Outline

Search buffers in metres (m)

Source Protection Zone 1
Inner catchment

Source Protection Zone 2
Outer catchment

Source Protection Zone 3
Total catchment

Source Protection Zone 4
Zone of Special Interest

Source Protection Zone 1c
Inner catchment - confined aquifer

Source Protection Zone 2c
Outer catchment - confined aquifer

Source Protection Zone 3c
Total catchment - confined aquifer

Drinking water abstraction licences

Drinking water abstraction licences
Polygon features

Drinking water abstraction licences
Linear features

Groundwater abstraction licence (point)

Groundwater abstraction licence (area)

Groundwater abstraction licence (linear)

Surface Water Abstractions (point)

Surface Water Abstractions (area)

Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	2

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 50**

ID	Location	Details	
1	411m S	Status: Active Licence No: NW/071/0348/002 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: MILL FARM BOREHOLE Data Type: Point Name: SINGLETONS DAIRY LTD Easting: 360176 Northing: 436984	Annual Volume (m^3): 31,840 Max Daily Volume (m^3): 88 Original Application No: - Original Start Date: 27/06/2013 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 27/06/2013 Version End Date: -
2	491m S	Status: Historical Licence No: 2671348013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT MILL FARM,PRESTON ROAD, LONGRIDGE Data Type: Point Name: SINGLETONS DAIRY LTD Easting: 360200 Northing: 436900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/08/1989 Expiry Date: - Issue No: 100 Version Start Date: 15/08/1989 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0

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.

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

5.8 Potable abstractions

Records within 2000m	0

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.

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

5.9 Source Protection Zones

Records within 500m	0

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

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

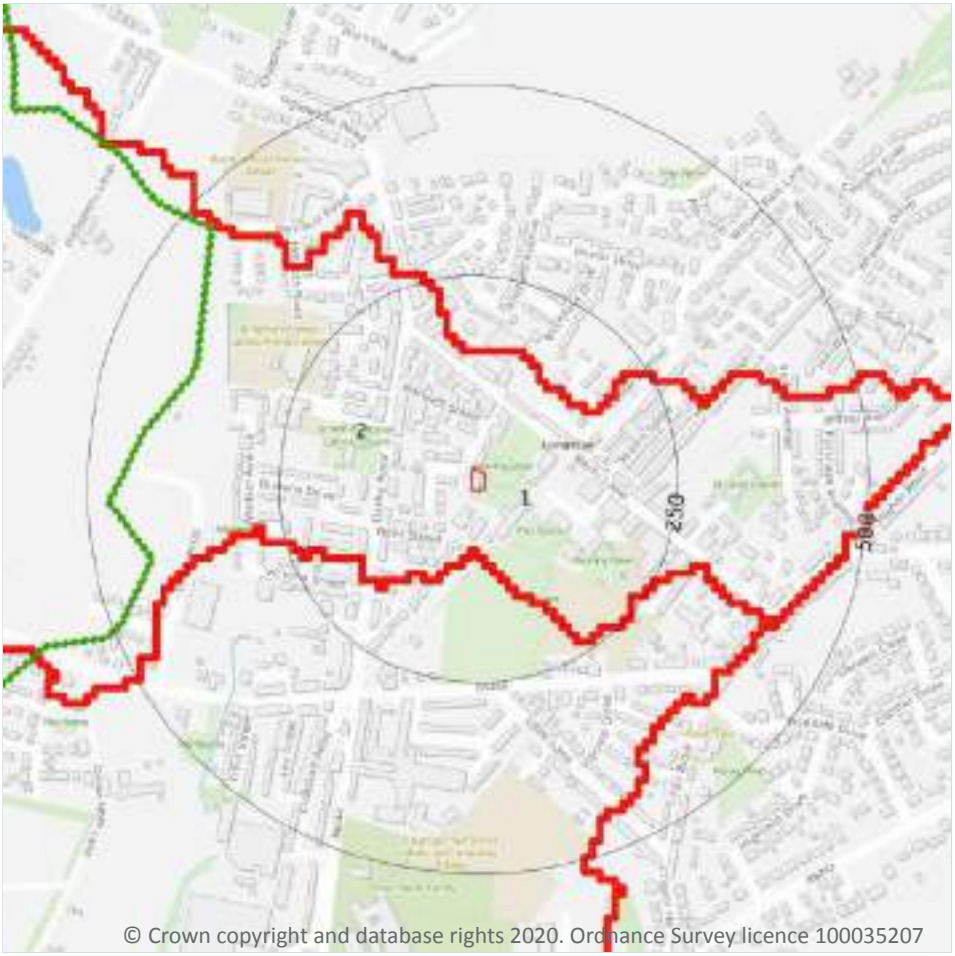
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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.

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 53**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River WB catchment**	**Woodplumpton Brook**	**GB112072065760**	**Brock and Tributaries**	**Wyre**

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 53**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2001m SW	River	Woodplumpton Brook	GB112072065760	Poor	Good	Poor	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 53**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Ribble Carboniferous Aquifers**	**GB41202G103000**	**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.

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.

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

Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**Negligible**
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 59**

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.

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding

Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

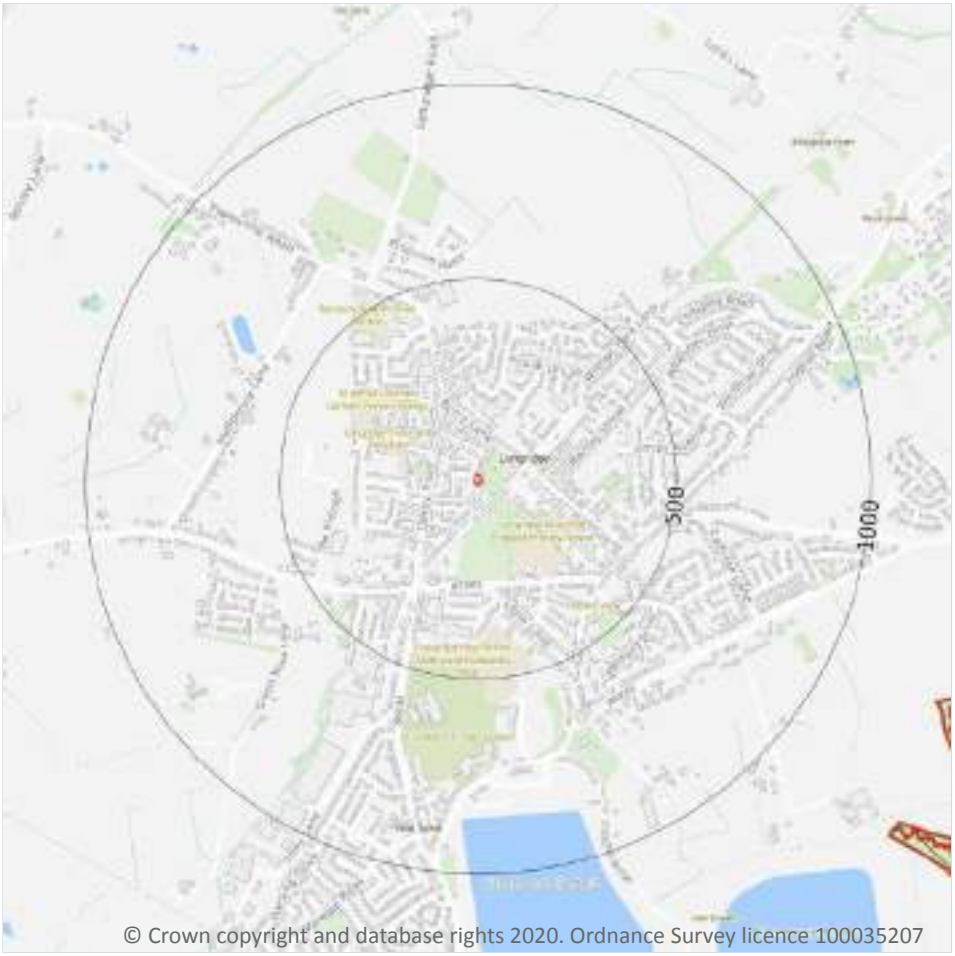
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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 61**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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.

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	0

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.

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

10.7 Designated Ancient Woodland

Records within 2000m	2

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 62**

ID	Location	Name	Woodland Type
A	1299m SE	College Wood	Ancient & Semi-Natural Woodland
A	1384m SE	College Wood	Ancient Replanted 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

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	0

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.

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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.

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

Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	2

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 67**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion**
2	On site	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion** **Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)**

This data is sourced from Natural England.

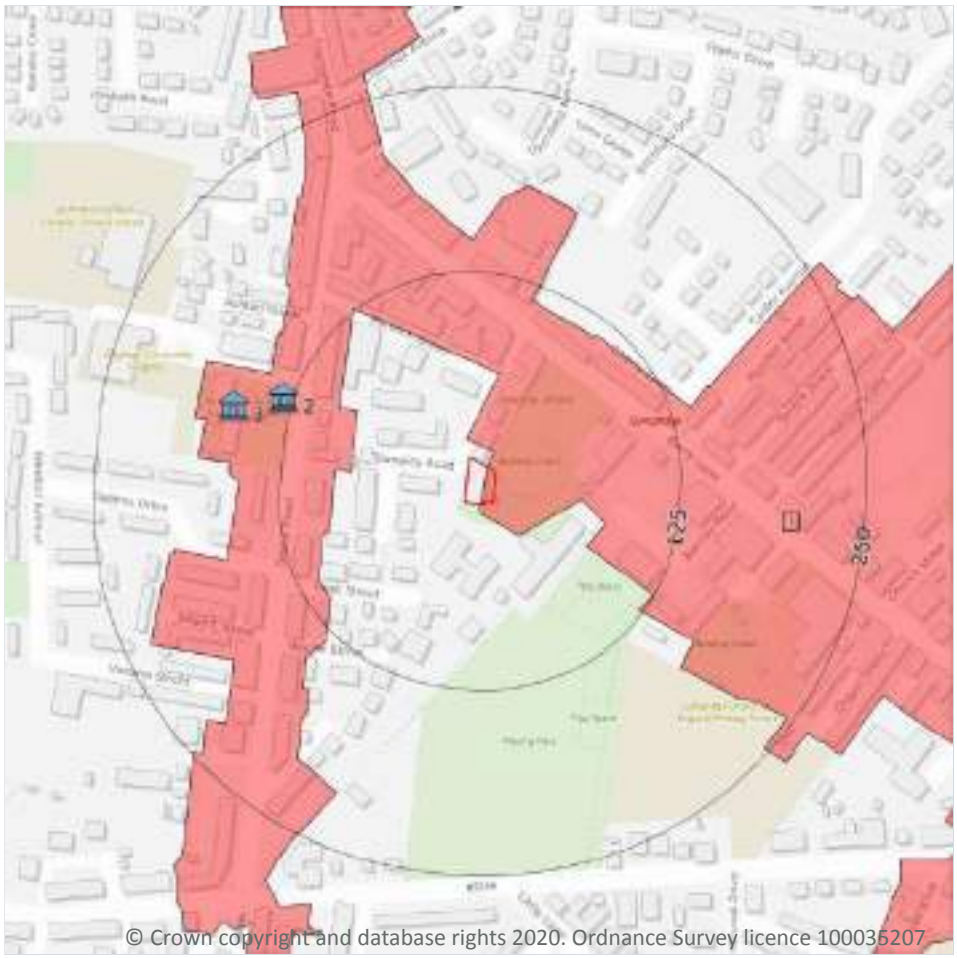
10.18 SSSI Units

Records within 2000m	**0**

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.

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

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	2

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.

Features are displayed on the Visual and cultural designations map on **page 69**

ID	Location	Name	Grade	Reference Number	Listed date
2	131m W	War Memorial, Longridge, Ribble Valley, Lancashire, PR3	II	1392231	30/08/2007
3	162m W	Church Of St Wilfrid, Longridge, Ribble Valley, Lancashire, PR3	II	1147416	22/11/1983

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

11.5 Conservation Areas

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 69**

ID	Location	Name	District	Date of designation
1	**On site**	**Longridge**	**Ribble Valley**	**20/12/1979**

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.

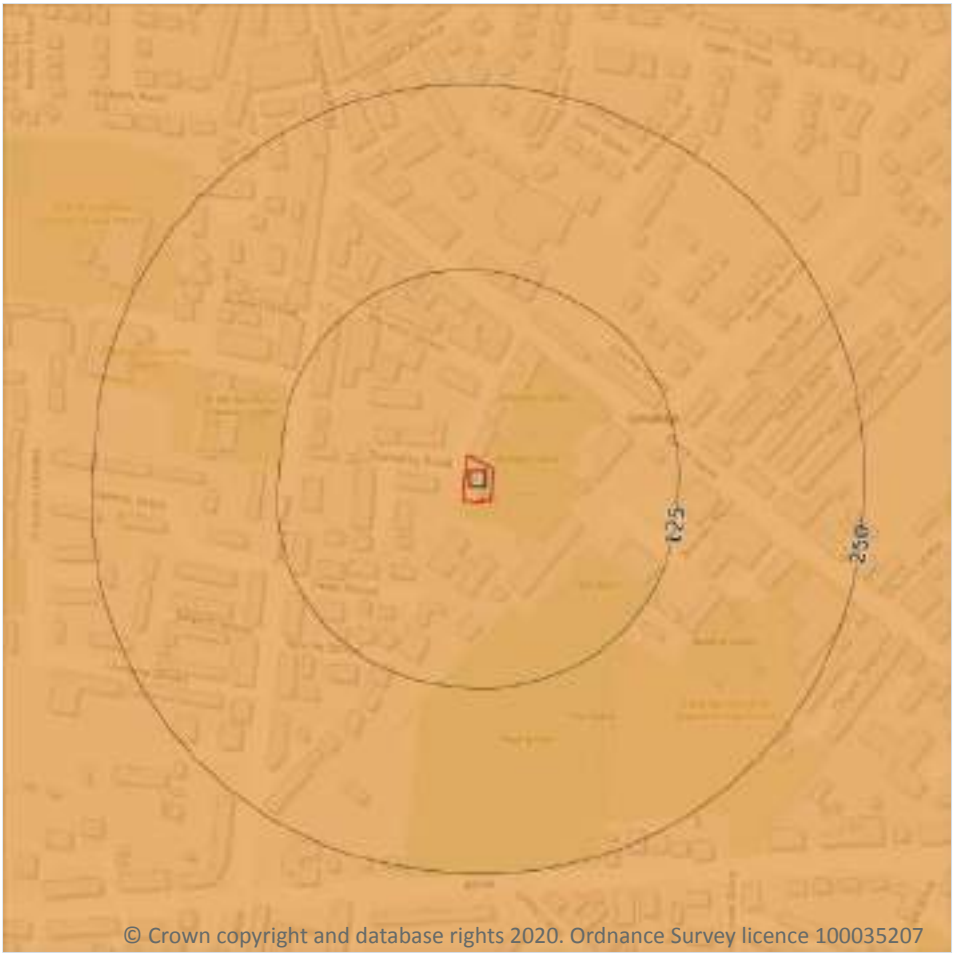
11.7 Registered Parks and Gardens

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



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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 72**

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.

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	0

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

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.

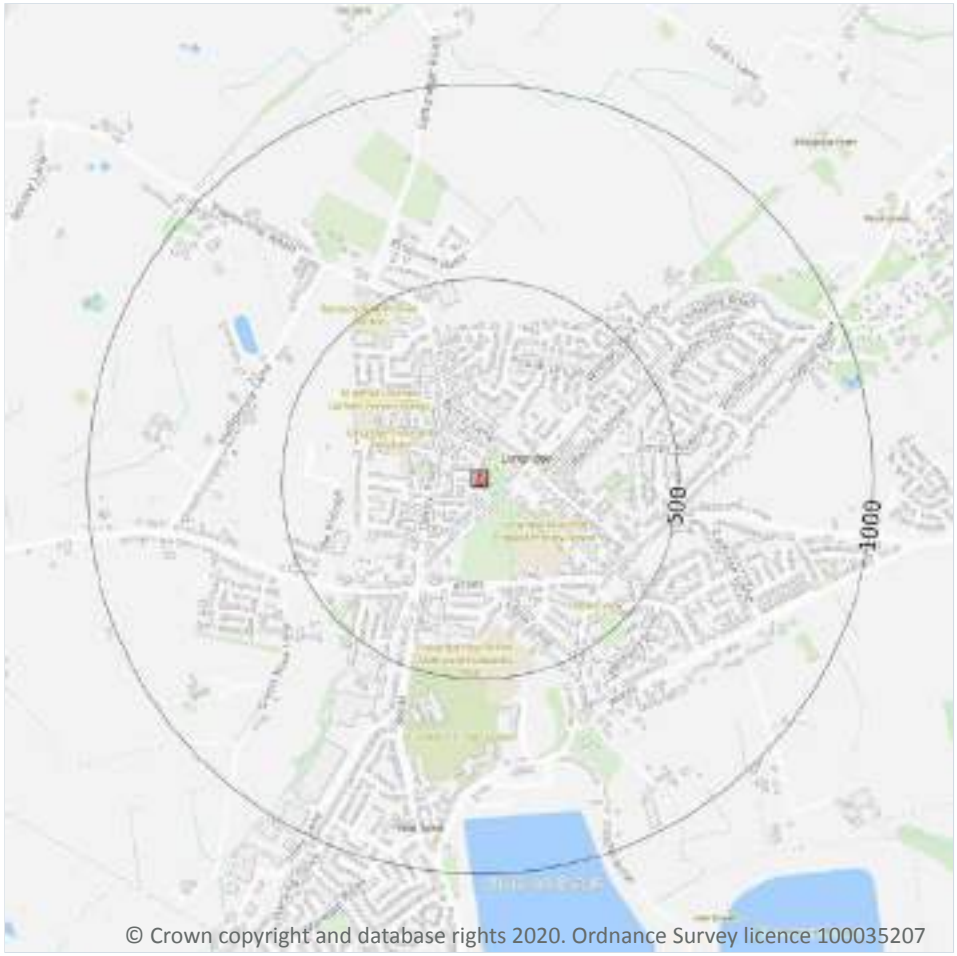
13.4 Limestone Pavement Orders

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.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

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 75**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**No coverage**	**No coverage**	**No coverage**	**NoCov**

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

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.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

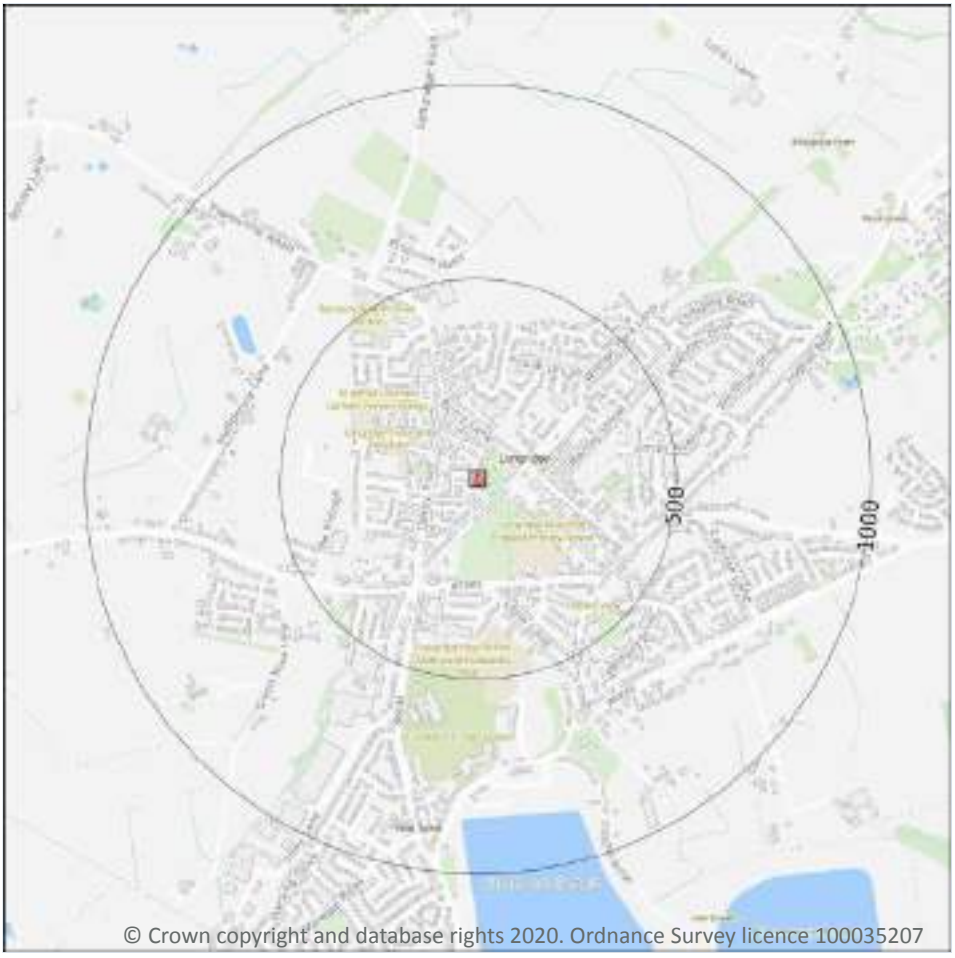
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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.

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	1

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 79**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW067_garstang_v4**

This data is sourced from the British Geological Survey.

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.

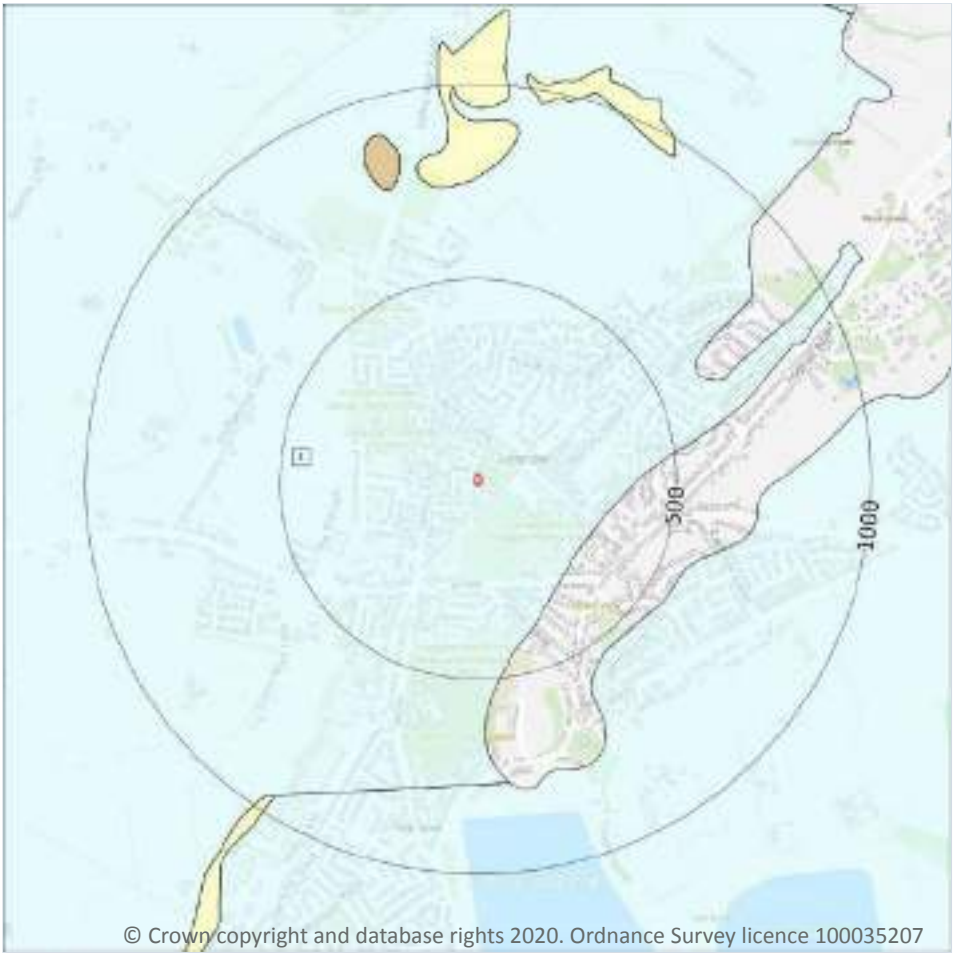
15.3 Artificial ground permeability (50k)

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	1

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 81**

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

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.

15.8 Bedrock geology (50k)

Records within 500m **5**

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 83**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PG-SDST**	**PENDLE GRIT MEMBER - SANDSTONE**	**NAMURIAN**
2	51m NW	BSG-MDST	BOWLAND SHALE FORMATION - MUDSTONE	VISEAN
4	243m NW	BSG-MDSI	BOWLAND SHALE FORMATION - MUDSTONE AND SILTSTONE	VISEAN

ID	Location	LEX Code	Description	Rock age
5	267m SE	PG-MDST	PENDLE GRIT MEMBER - MUDSTONE	NAMURIAN
6	400m N	PNDS-SDST	PENDLESIDE SANDSTONE MEMBER - SANDSTONE	VISEAN

This data is sourced from the British Geological Survey.

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	**Fracture**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**1**

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.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 83**

ID	Location	Category	Description
3	243m NW	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.

16 Boreholes

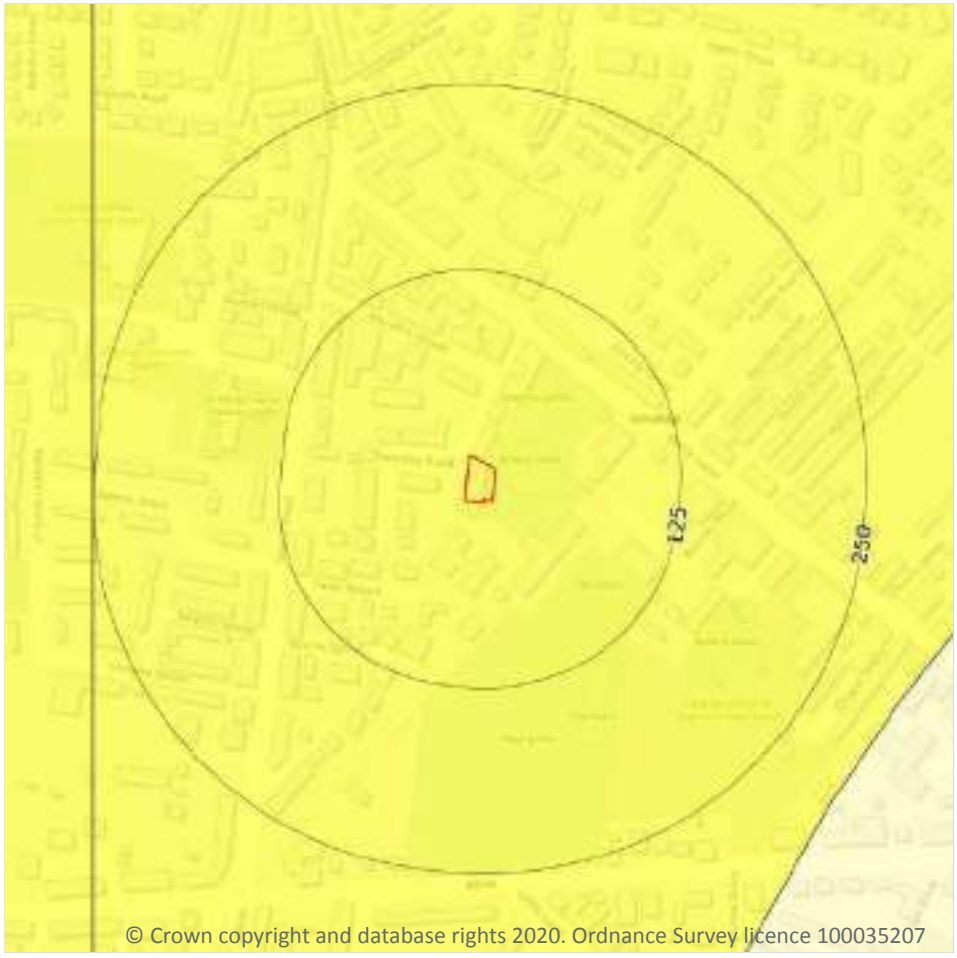
16.1 BGS Boreholes

Records within 250m	0

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.

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

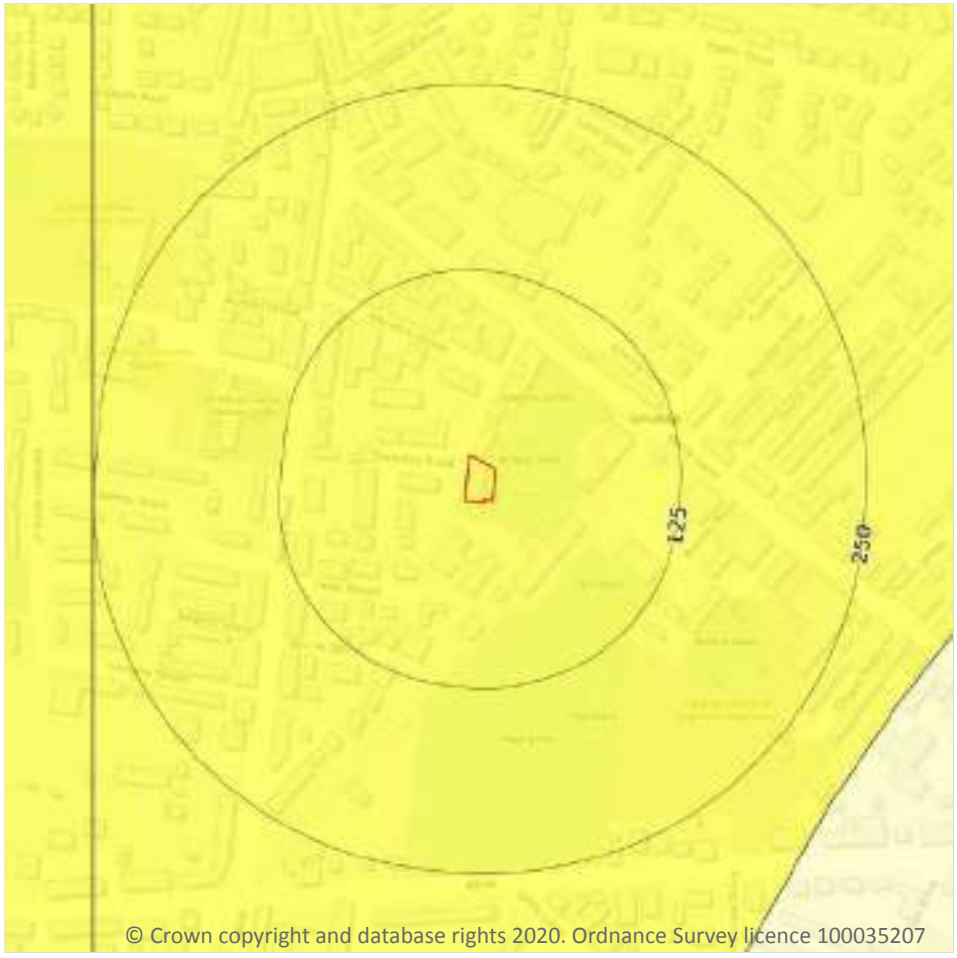
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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 87**

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.

Natural ground subsidence - Compressible deposits

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

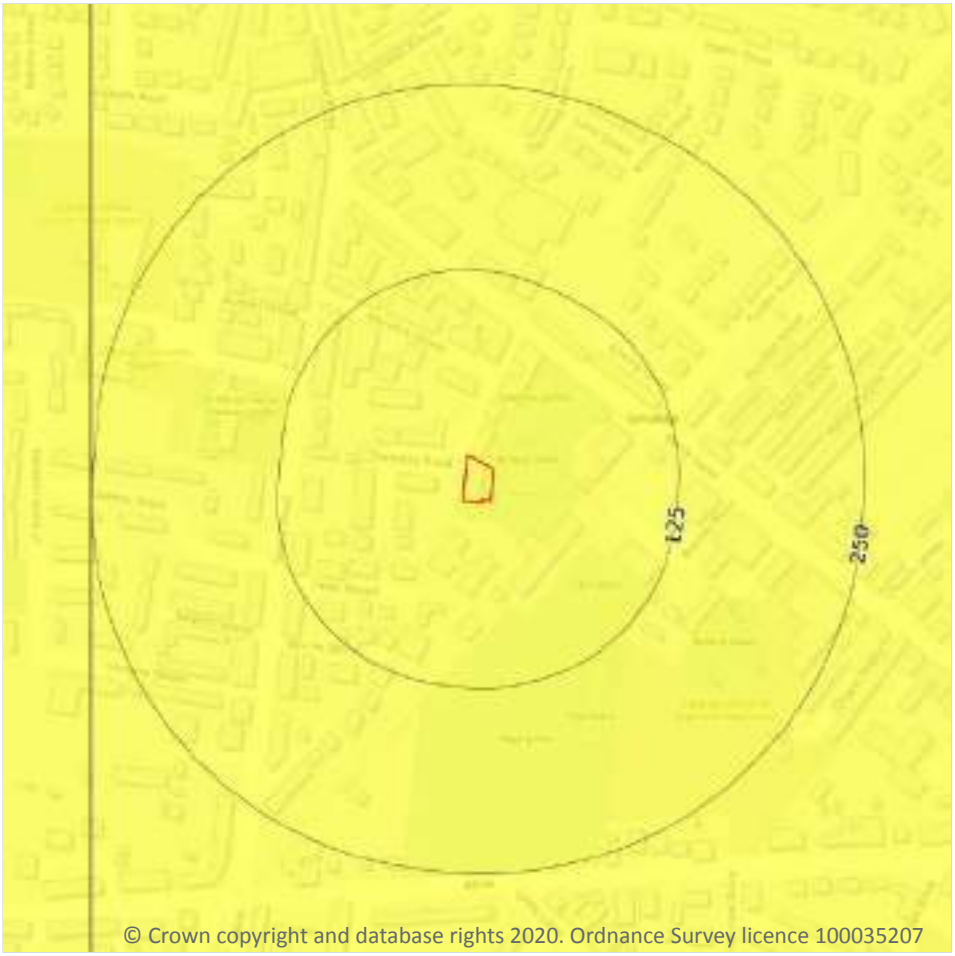
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 88**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

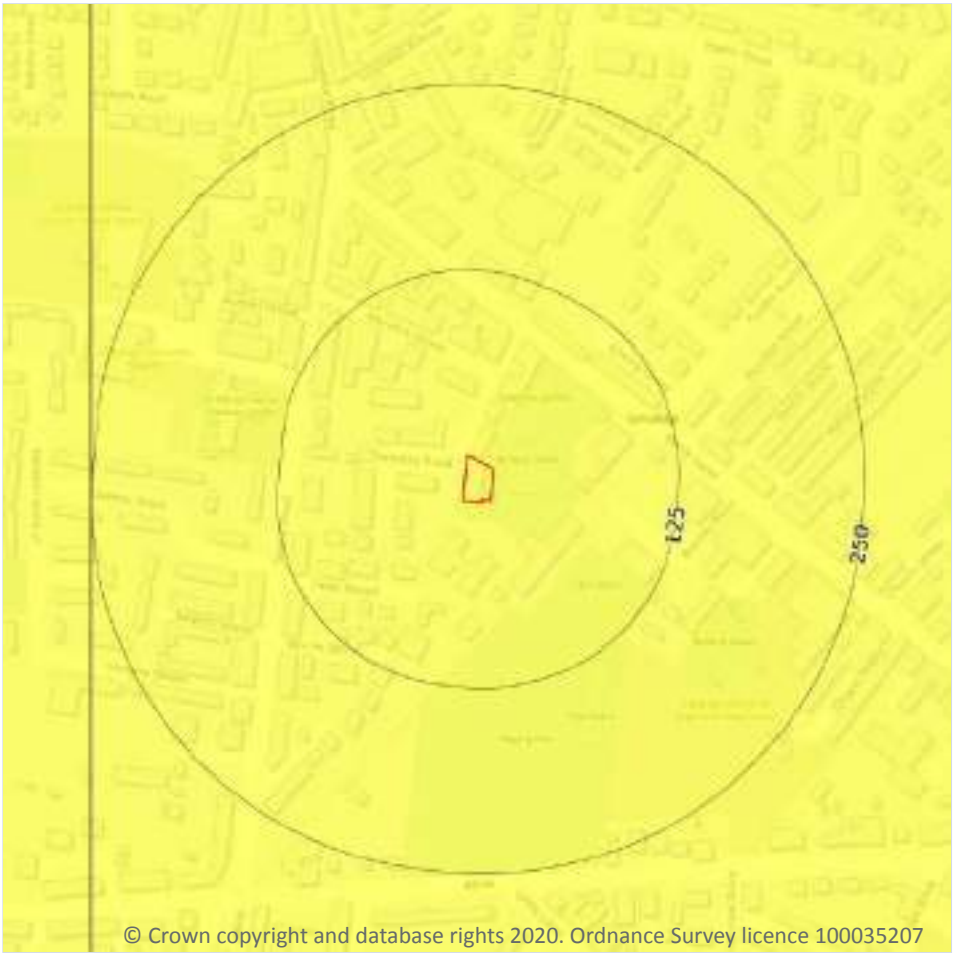
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 89**

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.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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 90**

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.

Natural ground subsidence - Ground dissolution of soluble rocks

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

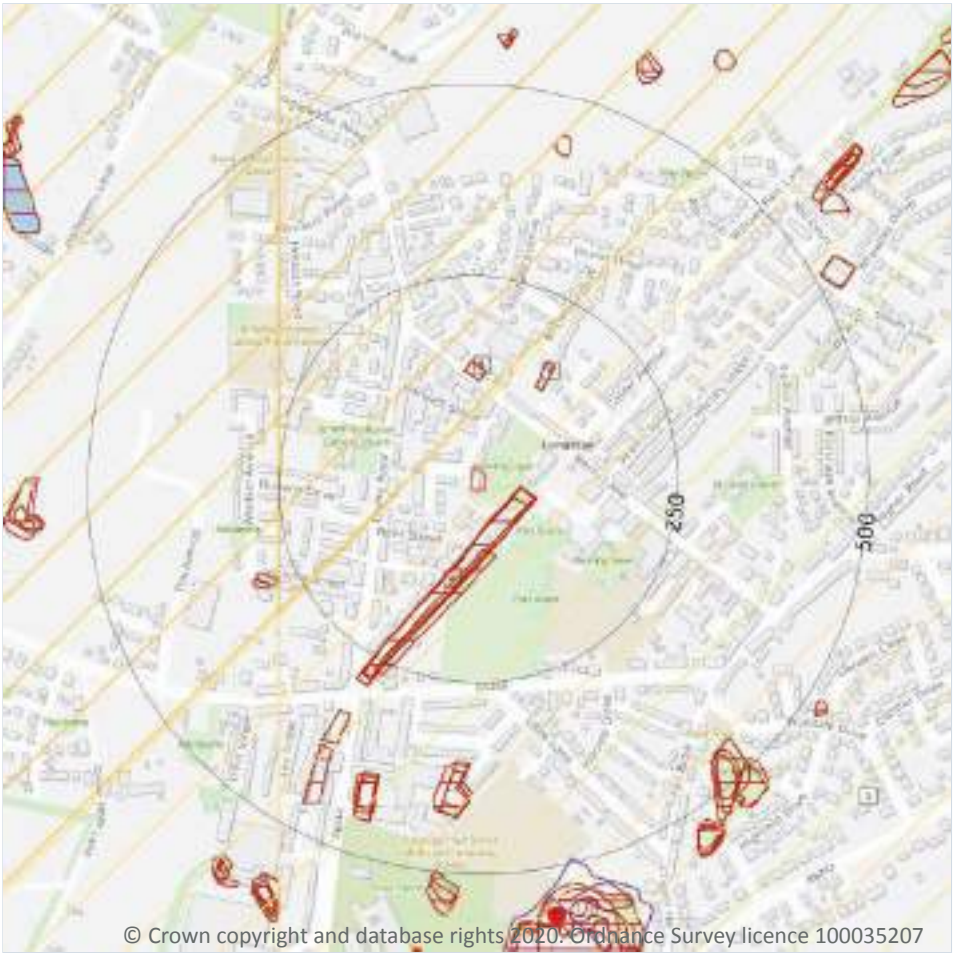
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 91**

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.**

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

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).

18.2 BritPits

Records within 500m	0

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	10

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 92**

ID	Location	Land Use	Year of mapping	Mapping scale
A	32m SE	Cuttings	1994	1:10000
A	34m SE	Cuttings	1951	1:10560
A	34m SE	Cuttings	1969	1:10560
A	34m SE	Cuttings	1932	1:10560
A	34m SE	Cuttings	1910	1:10560
A	76m S	Cuttings	1892	1:10560
B	113m N	Reservoir	1932	1:10560
B	113m N	Reservoir	1910	1:10560
C	130m NE	Reservoir	1932	1:10560
C	130m NE	Reservoir	1910	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	5

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**

ID	Location	Land Use	Year of mapping	Mapping scale
-	938m S	Valve Shaft	1910	1:10560
-	963m NE	Tunnel	1932	1:10560
-	965m NE	Tunnel	1969	1:10560
-	966m NE	Tunnel	1910	1:10560
-	974m NE	Tunnel	1951	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m **1**

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
H	494m S	Chapel Field	Sandstone	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m **4**

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Vein Mineral**	**A**	**Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered**

ID	Location	Name	Commodity	Class	Likelihood
2	51m NW	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
3	251m W	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	299m SW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

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.

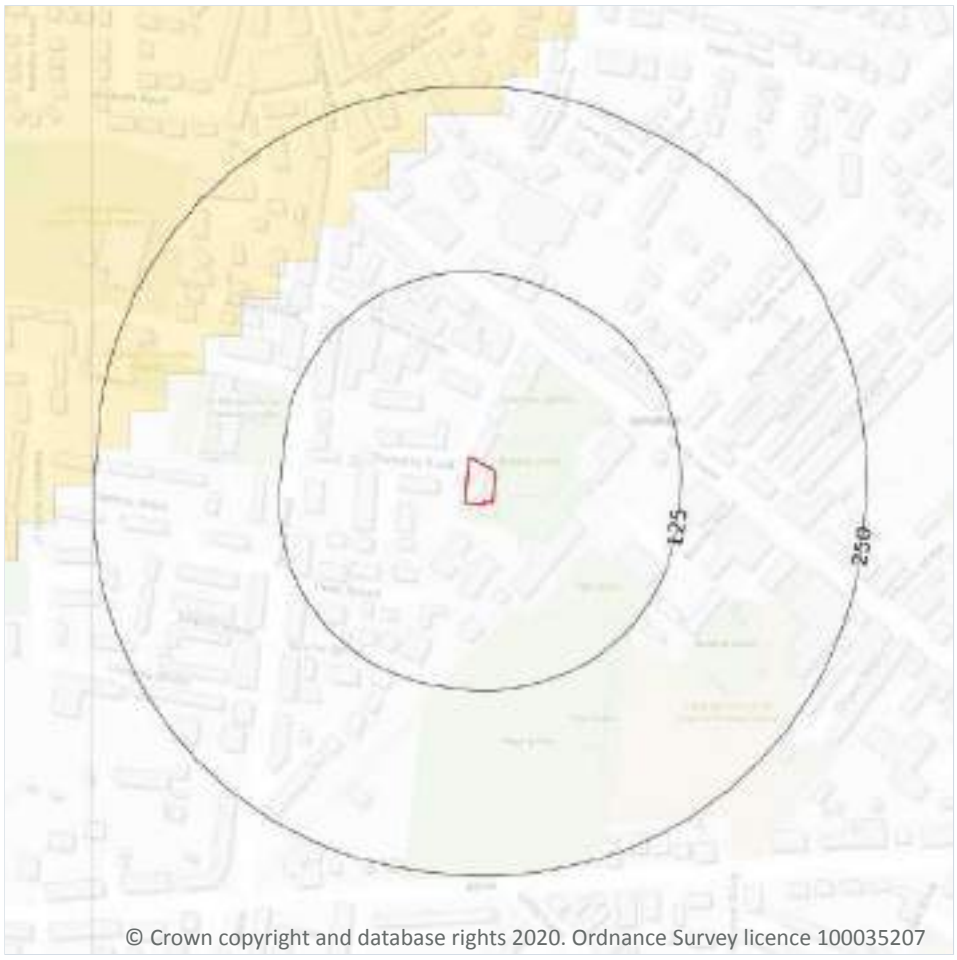
18.13 Clay mining

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



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

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 97**

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.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	1

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 km^2. 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 km^2; 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**

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 km^2).

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 km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

Site Outline
Search buffers in metres (m)
Crossrail 1 Stations
Crossrail 1 Route
Crossrail 1 Worksites
Crossrail 2 Stations
Crossrail 2 Route
Crossrail 2 Worksites
Crossrail 2 Safeguarding
Crossrail 2 Headhouses
Railway stations
Active railways
Active tunnels
Abandoned railways
Historic railways
Historic tunnels
Underground stations
Underground Lines
Royal Mail tunnels
HS2 optimised route
HS2 Stations
HS2 Depots
HS2 Surface Safeguarding
HS2 Subsurface Safeguarding

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	8

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.

Features are displayed on the Railway infrastructure and projects map on **page 99**

Location	Land Use	Year of mapping	Mapping scale
34m SE	Railway Sidings	1932	10560
34m SE	Railway Sidings	1910	10560
51m E	Railway Sidings	1951	10560
60m E	Railway Sidings	1892	2500
60m E	Railway Sidings	1912	2500
60m E	Railway Sidings	1932	2500
65m SE	Railway Sidings	1892	10560
103m NE	Railway Sidings	1967	2500

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	2

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

Features are displayed on the Railway infrastructure and projects map on **page 99**

Location	Description
33m SE	Abandoned
81m E	Dismantled

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.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

APPENDIX C

Preliminary Conceptual Model

Table A: *Potential Receptors to be Considered in the Preliminary Conceptual Model*

POTENTIAL RECEPTOR	COMMENTS	Include in PCM
PROPERTY: Other		
On Site		
Crops	None intended on site	×
Domestic Produce	None on site	×
Livestock	None anticipated on site	×
Domestic Animals	May be owned by residents	✓
Game	None on site	×
Off Site		
Crops	None anticipated in vicinity of site	×
Domestic Produce	Possibly in houses in vicinity of the site	✓
Livestock	None anticipated in vicinity of site	×
Domestic Animals	May belong to adjacent residents	✓
Game	Not applicable	×
PROPERTY: Buildings		
On Site		
	Residential Properties, services	✓
Off Site		
	Residential Properties, services	✓
HUMANS		
On Site		
Residents	Future Residents	✓
Construction workers	During ground excavations	✓
Employees	Not applicable	×
Surface water users	No surface water abstractions located within 250 m of the site	×
Off Site		
Residents	Residents adjacent to the site	✓
Employees	Not applicable	×
Groundwater users	No groundwater abstractions within 250 m.	×
Controlled Waters		
On Site		
Surface Waters	Nearest watercourse located some 103 m south-east of site	×
Groundwater	The superficial strata (Boulder Clay) is classified by the EA as 'Secondary Undifferentiated Aquifer'. This strata is relatively impermeable and any water trapped/held within the deposits are not considered to represent a sensitive receptor. The underlying bedrock is classified as a 'Secondary A Aquifer' and is unlikely to be impacted due to the presence of laterally continuous Boulder Clay which will inhibit the vertical migration of contamination to the underlying bedrock. Presence of Boulder Clay needs to be confirmed	×
Off Site		
Controlled Waters	Not applicable	×
Ecological Systems		
On/Off Site		
SSSIs, national nature reserves, SACs etc	Not applicable to the site	×

Link	Source	Hazard	Transport Mechanism	Pathway	Medium of Exposure	Receptor	Risk Summary*
1	Contaminated Soils	Gas Inhalation	Ground gas generated from breakdown of organic material migrating into new buildings	Inhalation of gas	Air	Humans (on-site/off-site), domestic pets	Low
2	Contaminated Soils	Vapour Inhalation	Organic vapours from fuel oil (kerosene) entering building	Inhalation of organic vapours	Air	Humans (on-site/off-site), domestic pets	Low-Medium
3	Contaminated soils	Particulate inhalation	Released from ground during earthworks	Inhalation of particulates	Air	Humans (on-site/off-site), domestic pets	Low
4	Contaminated soils	Damage to structure/services	Direct contact of contaminants with building structures/services	Direct contact	Soil/Water	Services	Low

Table B: *Preliminary Conceptual Model*

*Relative Risk Screening and Prioritisation for further Investigation & or Assessment

High	Higher probability of occurrence and identification of primary sources of contamination with respect to most sensitive receptors.
Medium	Pollutant linkage generally dependent on the presence of other primary pollutant linkages and/or where pollutant linkage generally associated with less sensitive receptors.
Low	Lower probability of occurrence such as based on requirement for significant migration pathway or where pollutant linkage requires the presence of source contaminants at concentration likely to be much higher than other identified pollutant linkages.

APPENDIX D

Site Photographs

P1: Looking at west face of building from Towneley Road

P2: Looking at east face of building from Bowling Green area

P3: Looking at southern face of the building

P4: Looking at alley to the north of the building

P5: Kerosene Tank located in breeze block building to south

P6: Concrete slab in the south-east of the site

GEO-ENVIRONMENTAL CONSULTING ENGINEERS

Comments:

Photographs 1 to 6

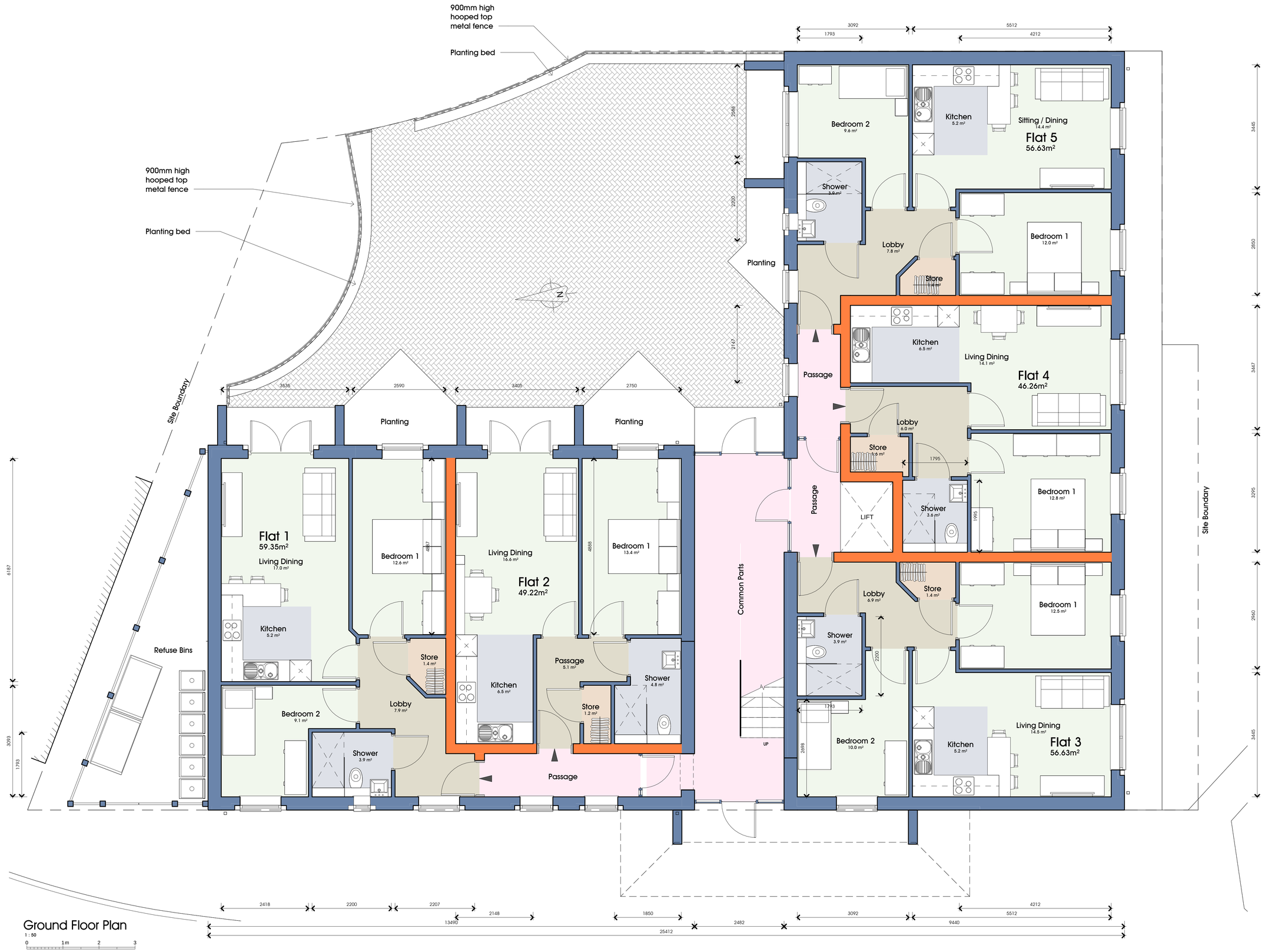
This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project details adjacent. BEK accepts no liability for the misinterpretation or use of this illustration by any other parties.

Site: Former British Legion Club, Towneley Road, Longridge	**Project No:** 20770	**Created By:** J Mashiter	**Date:** 19/10/20
Title: Appendix E - Photographs	**Client:** Touchline Developments Ltd		

APPENDIX E

Drawings

NOTES:
1: Do not scale this drawing, use figured dimensions only 2: The Contractor, Sub Contractor or specialist supplier are responsible for confirming site dimensions prior to fabrication 3: Any dimensional discrepancies are to be reported to the Architect immediately



Ground Floor Plan

1 : 50

0 1m 2 3

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Proposed Apartmets
Former British Legion,
Towneley Road, Longridge
Mr & Mrs Hardacre

Planning
Ground Floor Plan

DATE Feb 2020

JOB NO 3039
DRAWING NO 120
REVISION
SCALE 1 : 50 @ A1

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