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**LAND TO THE REAR OF
ST PAUL'S TERRACE
CLITHEROE**

**PHASE 1 PRELIMINARY
RISK ASSESSMENT**

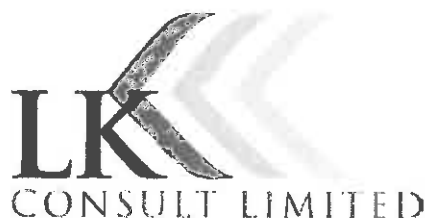


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1 INTRODUCTION

1.1 Background

LK Consult Ltd (LKC) has been commissioned by Hargreaves & Coates Ltd to carry out a Phase 1 Preliminary Risk Assessment (PRA) for land to the rear of St Paul's Terrace, Clitheroe. The report was undertaken in support of a future planning application to redevelop the site for a residential end use.

According to guidance set out in CLR11¹, GPLC1-3² and the National Planning Policy Framework (NPPF)³ a PRA with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk.

In accordance with current guidance the PRA will include a site reconnaissance, site history, geology, hydrogeology, hydrology, mineral search and a landfill search. Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site, which will support the identification and assessment of any pollutant linkages.

In addition the information gathered will be used to identify potential geotechnical constraints associated with the redevelopment of the site.

Based on the findings of this report, an appropriate site investigation can be derived, if required.

1.2 Site Settings

A summary of site settings is presented in Table 1-1. Figures 1 indicates the site location. Figure 2 indicates the site boundary and the proposed layout.

Location	Northwest of St Paul's Terrace and southwest of St Paul's Street, Clitheroe. Centred at approximate National Grid Reference 373070E 441630N.
Area	1,100m ² .
Topography	Approximately 66 metres above ordnance datum (AOD). Site is approximately level with the surrounding area.
Current Land Use	<u>Site</u> The site is currently used for maintenance, spray painting and the repair of vehicles (wagons), comprising garages, fuel tanks and a fuel pump. The west of the site is currently occupied with allotments with associated sheds. The ground across the majority of the site is hardstood tarmacadam. <u>Surrounding Area</u> North: Residential properties. East: Residential properties. South: Playing fields. West: Recreational area associated with the social club.
Proposed Development	Residential properties with associated car parking and gardens.

Table 1-1: Summary of site settings for land to the rear of St Paul's Terrace, Clitheroe.

¹ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.

² EA (2010). "Guiding Principles for Land Contamination." GPLC1-3.

³ DCL (2012). "National Planning Policy Framework." Department of Communities and Local Government. March 2012.

2 SITE HISTORY

In compiling the site history, LKC consulted historical mapping provided by the Landmark Information Group Ltd. Copies of relevant historical plans are provided in Appendix A and are summarised Table 2-1. Notable features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be features within a 250m buffer that could be infilled historically.

Site Features	Location	Map Dates Present	Comments
Vacant Land	Whole site	1847-1914	- Site developed by 1932 mapping.
Unreferenced Buildings	South	1932-Present	- Still present onsite and identified as garages during the site reconnaissance.
Surrounding Area Features	Distance/ Location	Map Dates Present	Comments
Pond	80m SE	1847 only	- Not present by 1886 mapping.
River Ribble	200m W	1847-Present	- Flowing S.
Watercourse	140m N	1890-Present	- Annotated as a drain on 1964 mapping.
Residential Properties	Adjacent N	1912-Present	
Residential Properties	Adjacent E	1912-Present	
Allotment Gardens	70m NE	1932-Present	- Area extended by 1964 mapping and is now 50m from site.
Graveyard	130m SE	1932 only	- Associated with St Paul's Church.
Cutting	230m NW	1932-1972	- Not present by 1977 mapping.
Unreferenced Structures	Adjacent W	1964-1993	- Not present by 1995 mapping.

Table 2-1: Summary of historical features for land to the rear of St Paul's Terrace, Clitheroe.

3 ENVIRONMENTAL SETTING

In compiling this Section, LKC consulted environmental information provided by the Envirocheck Report (Appendix B), British Geological Survey (BGS) (Appendix C), Natural England and the Environment Agency. A summary is presented in Table 3-1.

Categories (data sources)			Details
Geology	Artificial ¹		- None recorded onsite.
	Superficial ¹		- Till deposits (Diamicton).
	Bedrock ¹		- Clitheroe Limestone Formation and Hodder Mudstone Formation (undifferentiated).
	BGS logs ²		- None within 500m of the site. - Nearest 560m NW, BH Ref: SD74SW26: topsoil to 0.2m, boulder clay to 9m, red & brown limestone to 47m, dark grey limestone to 63m.
Hydro-geology	Aquifer Designation	Superficial ¹	- Unproductive.
		Bedrock ¹	- Secondary A.
Hydrology	Groundwater Abstractions ¹		- None within 500m. - Nearest 1983m W, R. Walker & Son, General Agriculture & Private Water Supply (Domestic), licence revoked.
	Nearest Surface Water ¹		- River Ribble, 209m W, flowing south.
	Water Quality Data ¹		- 254m NW, River Ribble, River Quality B.
	Flooding ¹		- No risk from rivers or sea.
	Surface Water Abstractions ¹		- None within 500m. - Nearest 1081m SE, Stalwart Dyeing Co Ltd, General Agriculture; Transfer Between Sources.
	Discharge Consent ¹		- Three within 250m. - Two 229m S, by United Utilities Water Plc. into S.W. System: - Public Sewage: Storm Sewage Overflow, licence varied under EPR 2010. - Storm/emergency Overflow, licence Post National Rivers Authority Legislation where issue date 31/08/1989.
	Pollution Incidents ¹		- Three within 250m. - Nearest 204m NW, 6 th July 1998, Polluter unknown, Category 3 – Minor Incident, oils (unknown) into a freshwater stream/river.

Table 3-1: Summary of environmental setting for land to the rear of St Paul's Terrace, Clitheroe.

Data Sources: 1 - Envirocheck Report (Appendix A and B); 2 - BGS GeoIndex <http://mapapps2.bgs.ac.uk/geoindex/home.html> (Appendix C); 3 - The Coal Authority Web Mapping Services (WMS) and Interactive Map Viewer <http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>

Categories (data sources)		Details
Minerals / Mining	Coal Mining Development High Risk Area ³	- Not identified on site.
	Surface Extractions ¹	- None within 500m.
	Cheshire Brine Compensation District	- Not within site area.
Ground Stability ¹ (on-site)	Collapsible Ground	- Very low hazard.
	Compressible Ground	- No hazard.
	Landslide	- Very low hazard.
	Running Sand	- Very low hazard.
	Shrinking / Swelling Clay	- Very low hazard.
	Ground Dissolution	- Very low hazard.
Landfill sites	Known/Registered ¹	- None within 250m.
	Potential ¹	- Three within 250m. - One pond, 80m SE, potentially infilled by 1886 mapping. - One graveyard, 130m SE, present on 1933 mapping only. - Cuttings, 230m NW, potentially infilled by 1972 mapping.
Radon ¹		- Probability of between 1% and 3% of homes above Action Level. - No further action required.
Designated Sites ¹		- None within 1km.
Contemporary Trade Directory ¹		- None within 100m. - Nearest 161m S, Stained Glass Designers & Producers, listed as inactive.
Fuel Station Entries ¹		- None within 100m.

Table 3-1 (continued): Summary of environmental setting for land to the rear of St Paul's Terrace, Clitheroe.

Data Sources: 1 - Envirocheck Report (Appendix A and B); 2 - BGS GeoIndex <http://mapapps2.bgs.ac.uk/geoindex/home.html> (Appendix C); 3 - The Coal Authority Web Mapping Services (WMS) and Interactive Map Viewer <http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>

4 SITE RECONNAISSANCE

A site reconnaissance was carried out on 6th March 2015. An annotated plan with photographs is provided in Appendix D.

Relevant features identified on site are summarised below:

- Site used for maintenance of vehicles, predominantly wagons.
- Two garages present onsite along the southern perimeter.
- Within the western garage is a wagon maintenance area with inspection pits.
- The eastern garage is currently being used for domestic spraying and repair of vehicles.
- Many oil containers were noted within the garage and significant oil spillages / leakages were noted on the hardstood concrete flooring.
- A possible corrugated asbestos containing material (ACM) roof was noted on the garages.
- A 500 gallon underground tank was noted onsite, which was seemingly used to store waste oils.
- Three above ground tanks were also noted onsite which historically held diesel. These tanks appeared rusty and were located on either concrete / brick bunds; however, no fuel spillages/leakages were noted within this area.
- A fuel pump was present and fuel spillages / leakages were noted on the side of the building.
- To the west of the garages was a covered area and used oil barrels were noted.
- The western part of the site is currently used as a small active allotment garden with several sheds present.
- A domestic garage was noted on the far western corner of the site.
- Underground services, including manhole covers were noted onsite.
- The remainder of the site was noted as a hardstood tarmacadam access road.

The surrounding area comprises primarily residential houses to the north and east, playing fields to the south and a recreational area associated with the social club to the west.

5 PRELIMINARY CONCEPTUAL MODEL

5.1 Introduction

The aim of the conceptual model is to provide a preliminary assessment of the likelihood of a pollutant linkage for each potential combination of contaminant, pathway and receptor. A conceptual model can be used to make an informed decision on the contamination risks associated with the site and whether further site investigation work is required.

The Sections below are therefore divided into potential contaminant, potential pathway and potential receptor as described in CLR11⁴. The final Section provides an assessment of the potential pollutant linkages that may still be present on the site if redevelopment were to occur.

5.2 Potential Contaminants

Historical and current site features that may be potential contamination sources are detailed below.

Vehicle maintenance and repair garages (southern perimeter onsite):

Multiple garages used for the maintenance, repair and domestic paint spraying of vehicles were noted onsite, containing an inspection pit, oil containers, spray paint tins and oil barrels. Evidence of fuel/oil spillages / leakages was present on the site surface within the garages.

Possible contamination could typically include petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), heavy metals (e.g. arsenic, lead), solvents, anti-freeze and sulphate. Additionally possible asbestos containing material (ACM) was observed within the corrugated roofing within the garages onsite.

Fuel Tanks (onsite):

Underground waste oil tank, a fuel pump and above ground diesel tanks were noted during the site reconnaissance, with associated spillages / leakages present on the site surface. Contamination could include petroleum hydrocarbons.

Small Allotment Garden (west onsite):

As the allotment garden is not annotated on historical mapping, it is likely to be an unofficial allotment. Made ground is likely to be onsite and may contain ash and clinker (i.e. from hearth and boilers) which was historically often used for site levelling / raising and for drainage and pathways.

Possible contamination could include heavy metals (e.g. arsenic, lead), PAHs (e.g. B(a)P)⁵ and sulphate. In addition, pesticide / herbicide contamination (such as DDT) are unlikely to be present as extensive use is not anticipated due to the small size and likely age of the allotment.

⁴ Defra (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11.

⁵ Defra (2002). "Potential Contaminants for the Assessment of Land." R&D Publication CLR 8.

Infilled Ground (offsite):

Three areas of potentially infilled ground have been identified within 250m of the site (pond, cuttings and graveyard). These features have the potential to generate hazardous gas (principally carbon dioxide and methane).

Given the size, distance and date of infilling these features are not considered a significant risk to the site.

If a significant depth of organic / putrescible material is present, hazardous gas (principally carbon dioxide and methane) could also be generated onsite.

Surrounding land uses:

The surrounding area has mainly been developed for residential use. Contamination is unlikely to be more significant than the contamination sources identified onsite.

5.3 Potential Pathways

The pathways are split into the migration of soil, water and gas.

Soil

This also includes soil-derived dust / fibres, vapours from the soil and the uptake of contaminants from the soil into flora / vegetables.

Principal potential pathways associated with human health from soil contamination are ingestion, dermal and inhalation. The current UK technical report document⁶ recognises ten such pathways comprising four ingestion, two dermal and four inhalation. These are listed as follows:

- | | |
|--|--|
| • Ingestion of soil | • Dermal contact with soil-derived indoor dust |
| • Ingestion of soil-derived indoor dust | • Inhalation of soil-derived outdoor dust |
| • Ingestion of contaminated vegetables | • Inhalation of soil-derived indoor dust |
| • Ingestion of soil attached to vegetables | • Inhalation of vapours outside |
| • Dermal contact with soil | • Inhalation of vapours inside |

The proposed end-use follows a standard conceptual model of 'residential'. For this land use scenario all ten of the pathways will have to be considered.

Soils may be within direct contact with receptors (e.g. building foundations, services).

Soils can also generate dust / fibres which could migrate via windblow to adjacent receptors.

Water

Surface water and groundwater are principal mechanisms for the migration of contaminants. The following pathways are considered possible:

- Surface run-off over impermeable surface.
- Infiltration into the ground, through potentially contaminated material (contamination possibly going into solution).

⁶ EA (2008). "Updated Technical Background to the CLEA Model." Science Report – SC050021/SR3.

- Migration through potentially permeable strata and preferential pathways (drains and sewers).

The anticipated Till (superficial) is likely to be relatively impermeable and will significantly reduce the migration of potential contaminated waters.

The bedrock geology comprises undifferentiated Limestone and Mudstone and is likely to be variably permeable and could therefore act as a pathway for the migration of potential contaminated waters.

Underground services were noted during the site reconnaissance which could also act as a preferential pathway.

Gas

Gas can migrate via the following potential pathways:

- Migration through potentially permeable strata and preferential pathways (drains and sewers).
- Migration into buildings (e.g. via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).

As discussed above, the superficial Till deposits may act as a barrier for the migrating of gas. The bedrock geology and preferential pathways may act as pathways for gas migration.

5.4 Potential Receptors

Potential receptors include:

- Human Health: Future site residents, offsite land users.
- Controlled Waters: Underlying Secondary A Aquifer.
- Buildings and structures.
- Potable water pipes.
- Flora within future gardens/landscaping.

The River Ribble, located 209m to the west is not considered to be a significant receptor given the distance and direction of flow from the site.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance⁷) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

5.5 Preliminary Contamination Conceptual Model

The preliminary contamination conceptual model for land to the rear of St Paul's Terrace, Clitheroe is illustrated in Table 5-1 below and has identified seven generic potential pollutant linkages.

⁷ HSE (1991). "Protection of workers and the general public during development of contaminated land" London HMSO.

Each linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552⁸.

In order to assess the potential risk for each pollutant linkage, an assessment of the magnitude of the potential consequence (severity) of the risk occurring and the magnitude of the probability (likelihood) of the risk occurring has been considered and classified. This is based on the guidance provided in CIRIA C552 and further details including a risk matrix is provided in Appendix E.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

⁸ CIRIA (2001). "Contaminated land risk assessment: A guide to good practice". C552.

Pollutant Linkage	Pathway	Receptor	Contaminant (source)	Probability	Consequence	Risk	Assessment
PL1	- Dermal contact. - Inhalation of soil, fibres and dust - Ingestion of soils, dust, vegetables, soil attached to vegetables. - Windblown dust.	- Future residents. - Offsite receptors.	- ACM (current garage buildings, potentially in made ground).	Likely	Severe (ACM)	High	- Likely probability from ACM due to age of buildings onsite. - Likely probability from non-volatile contamination given the sites use and sensitive end use. - Contamination could come into contact with receptors in soft landscaping / garden areas. - Low risk assumed for pesticides / herbicides as extensive use is not anticipated. - Recommendation: Intrusive investigation required.
			- Non-volatile contaminants including metals, PAH's, inorganics, organics from made ground, garages, fuel tanks).	Likely	Medium	Moderate	
			- Pesticides / Herbicides (allotment)	Low	Medium	Moderate / Low	
PL2	- Inhalation of vapours. - Migration through permeable strata and preferential pathways.	- Future residents.	Volatile Contaminants: - Fuels, anti-freeze, solvents (vehicle repair garages, fuel tanks).	Likely	Medium	Moderate	- Likely probability as contamination source identified from vehicles repair garages, fuel tanks and evidence of leakages / spillages of volatile contamination onsite. - Till anticipated below the site may prevent migration. - Recommendation: Intrusive investigation required.
PL3	- Inhalation of gas. - Migration through permeable strata and preferential pathways. - Explosion in confined spaces.	- Future residents. - Buildings. - Offsite land users.	- Methane. - Carbon dioxide.	Unlikely	Severe	Moderate / Low	- Unlikely probability due to limited source of gas identified from offsite features given the distance, age and date of infilling from site. Gas generation from the graveyard is likely to have low flow rates. - Low risk assumed at this stage. - Recommendation: No further action required.
PL4	- Surface Run-off. - Migration through permeable strata and preferential pathways. - Perched waters migration.	- Groundwater (Secondary A Aquifer).	Mobile contaminants: - Hydrocarbons, anti-freeze and solvents (vehicle repair garages, fuel tanks).	Likely	Medium	Moderate	- Likely probability as contamination source identified from vehicle repair garages, fuel tanks and evidence of leakages / spillages of mobile contamination onsite. - Low probability associated with pesticides from allotments as significant contamination not anticipated. - Low risk assumed for pesticides / herbicides as extensive use is not anticipated. - Till anticipated below the site may also prevent migration. - Recommendation: Intrusive investigation required.
			- Pesticides / Herbicides (allotment)	Low	Medium	Moderate / Low	
PL5	- Sulphate attack on concrete.	- Building structure.	- Sulphate (ash potentially in made ground).	Likely	Mild	Moderate / Low	- Likely probability as made ground expected onsite which may be in contact with concrete used in future buildings. - Moderate risk assumed at this stage. - Recommendation: Intrusive investigation required as part of PL1.
PL6	- Ingestion of tainted water supply.	- Future site residents.	- Organic Contaminants (made ground, vehicles repair garages, fuel tanks).	Likely	Medium	Moderate	- Likely probability as contamination considered likely at pipeline depth (0.75-1.35m). - Recommendation: Intrusive investigation required if made ground present at pipeline installation depths.
PL7	- Direct Contact (plant uptake).	- Flora.	- Phytotoxic Contaminants (made ground).	Likely	Minor	Low	- Likely probability as made ground expected onsite which may be taken up by flora in soft landscaping / garden areas. - Recommendation: Intrusive investigation work required as part of PL1.

Table 5-1: Contamination Conceptual Model for land to the rear of St Paul's Terrace, Clitheroe.

6 PRELIMINARY GEOTECHNICAL RISK ASSESSMENT

Superficial deposits are mapped as Till. Bedrock geology is mapped as undifferentiated Limestone and Mudstone.

The Envirocheck Report identified a very low hazard of collapsible ground, landslide, running sand, shrinking / swelling clay and ground dissolution. No hazard has been identified for compressible ground.

The following need to be considered and investigated before any construction work commences:

- Deep made ground and / or relic in-ground structures (from former buildings) may be present on site which could affect groundwork's (e.g. grubbing out of structures) and type of foundations required (e.g. deepening of foundations / pilling).
- The strength and variability of superficial deposits need to be confirmed. An allowable bearing pressure of the soils should be confirmed to allow the design of suitable foundations.
- The depth of groundwater and variability of the water table should be confirmed as shallow / fluctuating groundwater can affect the strength of the soil, particularly in granular ground.
- Plasticity of clay deposits should be confirmed, particularly where trees are present or proposed, to identify the shrinkability risk.
- The CBR value of the ground for footpath and road design should be calculated. There is a potential for low / poor CBR values from underlying clay, therefore site roads may require the import of suitable granular material or modification of existing clay soils.

7 SUMMARY CONCLUSIONS AND RECOMMENDATIONS

7.1 Summary Conclusions

The site remained vacant until 1914 mapping. Unreferenced buildings were noted onsite during 1932 mapping.

Present day, the site is currently occupied by maintenance, paint spraying and repair vehicle garages, allotment gardens and a tarmac access road. Underground and above ground fuel tanks, oil containers, paint tins and a fuel pump was observed onsite. Additionally made ground was present across the site, identified during the site reconnaissance.

The proposed development is for the construction of residential properties with associated car parking and gardens.

Potential contamination sources affecting the site were identified as heavy metals, PAHs, anti-freeze, solvents, sulphate, asbestos and hydrocarbons.

These contaminants may pose a risk to site users (via ingestion/dermal contact/inhalation pathways and explosion), controlled waters (via migration through permeable strata / preferential pathways), buildings and structures (direct contact and explosion), water pipes (direct contact) and flora (root uptake).

A contamination conceptual model has been produced by LKC. This has identified the following risks summarised in Table 7-1. Where a moderate / low risk was identified, the assumed risk at this stage has been shown.

Pollutant Linkage		Risk	Further Action Required
1	Non-volatile contaminants posing a risk to site users via dermal contact, ingestion and inhalation (of soil, dust, fibres and vegetables).	High (ACM)	-Made ground likely onsite. -Current garage buildings may contain ACM. -Onsite vehicle repair garages, fuel tanks and oil containers. -Evidence fuel spillages / leakages. -Investigation work required.
		Moderate (PAHs, metals, hydrocarbons, pesticides)	
		Low (pesticides / herbicides)	
2	Volatile contaminants posing a risk to site users via the inhalation of vapours.	Moderate	-Vehicles repair garages, fuel tanks and evidence of significant leakages / spillages of volatile contamination identified on site. -Investigation work required.
3	Gas posing a risk to buildings and site users via the migration of gas into building causing explosion and asphyxiation.	Low	-Limited source of gas identified, given the distance, age and date of infilling of features. -No further action required.
4	Mobile contamination posing a risk to controlled waters via the migration through permeable strata.	Moderate	-Vehicle repair garages, fuel tanks and evidence of significant leakages / spillages of mobile contamination onsite. -Investigation work required.
5	Sulphate posing a risk to building via direct contact (sulphate attack).	Moderate	-Made ground observed onsite. -Investigation work required.
6	Organic contaminants posing a risk to water pipes.	Moderate	-Organic contaminants anticipated and made ground observed onsite. -Investigation work required.
7	Phytotoxic metals posing a risk to flora via root uptake.	Low	-Made ground observed onsite. -Investigation work required as part of PL1.

Table 7-1: Risk table for land to the rear of St Paul's Terrace, Clitheroe.

The preliminary geotechnical assessment has also identified the following potential risk which will need to be investigated:

- Unknown strength of soils for foundation design.
- Possible deep made ground with in-ground structures.
- Depth of groundwater and fluctuating groundwater table.
- CBR value for footpath and road design.
- Plasticity of clay deposits to identify the shrinkability risk.

7.2 Recommendations

In accordance with NPPF, LKC consider that sufficient information on the potential contaminative status of the site is available in this Preliminary Risk Assessment report to allow the validation of any future planning application by the Local Planning Authority and for conditional planning approval to be granted. Such conditional approval will likely include standard prescriptive conditions requiring a site investigation, risk assessment and, if appropriate, a remedial strategy are completed to the satisfaction of the Local Planning Authority prior to the commencement of any development.

LKC would recommend that once conditional planning approval is granted, a Phase II intrusive survey should be carried out across the site to investigate the six identified potential pollutant linkages further. The scope of this Phase II survey should be prior agreed with the Local Authority as a site investigation brief.

The site investigation should be carried in accordance with relevant guidance documents (including BS10175⁹ and BS5930¹⁰).

The investigation should include trial pits and / or boreholes at a sampling density of 1 sample per 25-50m square centres for an exploratory investigation and 1 sample per 10-25m square centres for a main investigation.

In addition, targeted sampling locations should be considered within areas of concern (e.g. maintenance and repair garages, fuel tanks and allotment gardens).

Soil samples should be collected from the trial pits / boreholes and tested for contaminants of concern based on the preliminary conceptual model and field observations (PID tests and visual / olfactory evidence).

In order to address the groundwater risk, samples should be collected from boreholes (monitoring wells). If no groundwater is present, soils can be subjected to leachability tests. Samples should be tested for contaminants of concern based on the preliminary risk assessment, field observations and results of the soil analysis.

LKC would note that if significant putrescible material is identified onsite it may be likely that gas monitoring will required, however it is not likely for this site as deep made ground is not anticipated.

It should be noted that boreholes and / or trial pits may also be utilised to provide appropriate geotechnical information on sub-surface conditions.

This investigation, in conjunction with appropriate geotechnical testing, will identify and characterise any contaminants encountered. Information from this investigation can then

⁹ British Standard (2011). "Investigation of Potentially Contaminated Sites – Code of Practice." BS10175:2011.

¹⁰ British Standard (1999). "Code of Practice for Site Investigations." BS5930:1999.

be used to provide a more detailed assessment of the identified pollutant linkages, provide appropriate foundation solutions and, if necessary, identify appropriate remedial measures to ensure that the site is made suitable for its proposed end use.

A copy of this report should be sent as part of the planning application.

7.3 Additional Considerations

7.3.1 Asbestos

Possible asbestos roofing was identified externally on the existing garage buildings. There may be areas inside that have Asbestos Containing Materials (ACMS) given the age of the garages. Therefore we would advise that a Pre-Demolition and Major Refurbishment Asbestos Survey is undertaken prior to demolition by a professional contractor.

The LK Group have a designated Asbestos Department would be happy to advise you on the appropriate steps to take in order to have the building suitably surveyed.

FIGURES

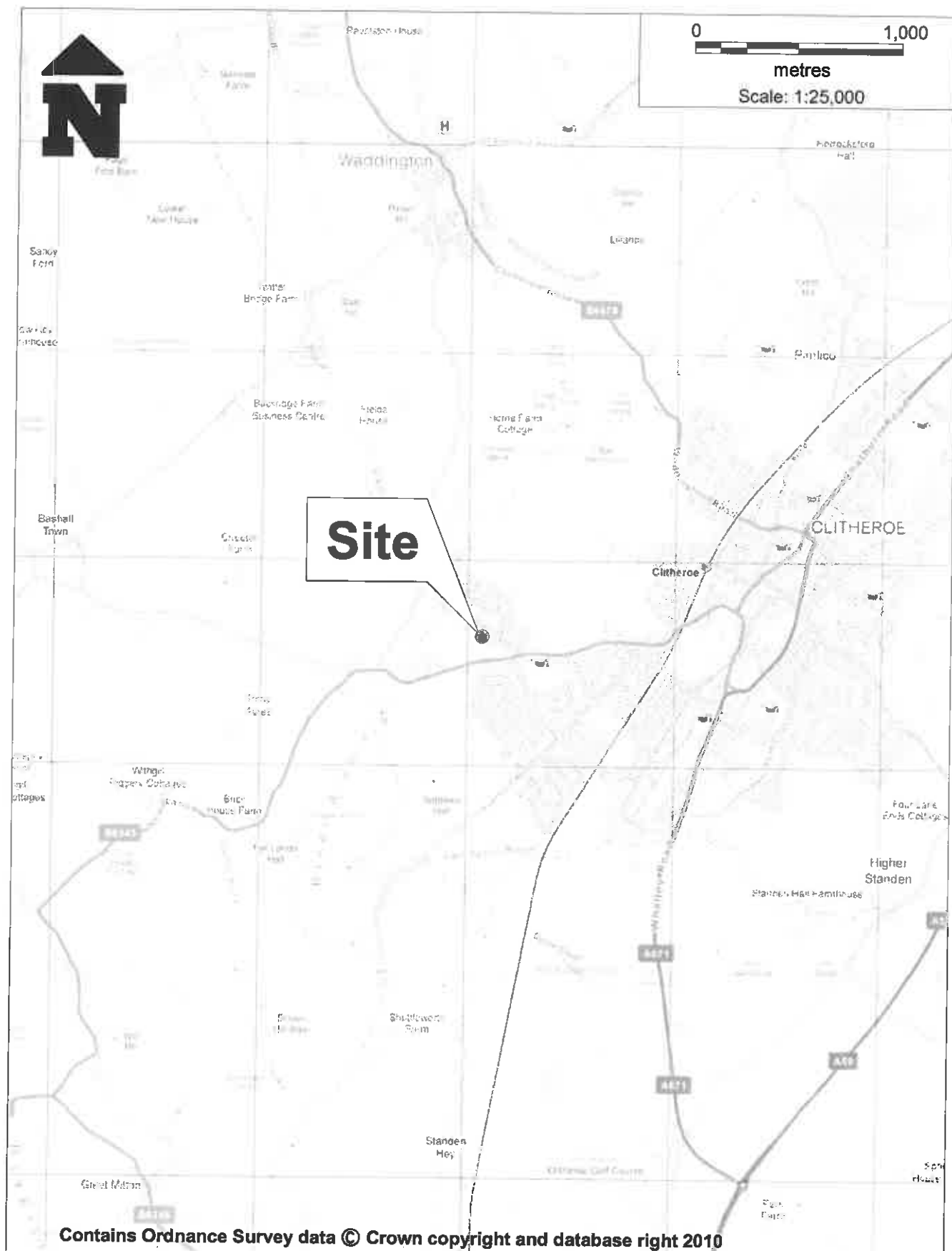


Figure 1: Location Plan, Land to the rear of St Paul's Terrace, Clitheroe

Drawn: March 2015 Scale: 1:25,000 @ A4 (see scale bar)



SOCIAL CLUB

ACCESS

ST PAUL'S STREET

ACCESS

ST PAUL'S TERRACE

COMMERCIAL PARKING
AREA FOR PLOTS 1-3

PLAYING FIELDS

Key



Site Boundary

0 20.00

metres

Scale: 1:500.0

Drawing provided by client. Drawing Ref: PHD/JH/200), Dated: Feb 2015

Figure 2: Site Boundary Plan (Proposed Layout), Land to the rear of St Paul's Terrace, Clitheroe

Drawn: March 2015 Scale: 1:500 @ A4 (see scale bar)

APPENDIX A

HISTORICAL MAPS

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit	Sand Pit	Other Pits	Quarry	Shingle	Orchard	Oslers	Reeds	Marsh	Deciduous	Brushwood	Fir	Firze	Rough Pasture	Triangometrical Station	Bench Mark	Well, Spring, Boundary Post	Surface Level	Sketched Contour	Instrumental Contour	Main Roads	Minor Roads	Sunken Road	Road over Railway	Railway over Road	Road over River or Canal	Road over Stream	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)	Rural District Boundary	Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry	Gravel Pit	Dilapidated Pit or Quarry	Lake, Loch or Pond	Boulders	Non-Coniferous Trees	Orchard	Scrub	Coppice	Bracken	Heath	Reeds	Sallings	Building	Glasshouse	Sloping Masonry	Pylon	Electricity Transmission Line	Pole	Cutting	Embankment	Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line	Narrow Gauge	Geographical County	Administrative County, County Borough or County of City	Municipal Borough, Urban or Rural District, Borough or District Council	Borough, Borough or County Constabulary	Chill Pits	Shown alternately where coincidence of boundaries occurs	BP, BS	Church	Club House	Fire Engine Station	PH	Public Convenience	Public House	Signal Box	Spring	Telephone Call Box	Telephone Call Post	W	Well

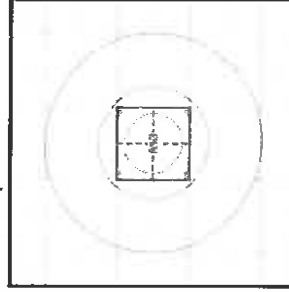
1:10,000 Raster Mapping

Gravel Pit	Refuse tip or slag heap	Rock (scattered)	Boulders (scattered)	Mud	Sand Pit	Top of cliff	Underground detail	Narrow gauge railway	Single track railway	Civil, parish or community boundary	Consistency boundary	Non-coniferous trees	Coniferous trees	Positioned tree	Coppice or Oslers	Heath	Marsh, Salt Marsh or Reeds	Flow arrows	Mean low water (springs)	Electricity transmission line (with poles)	Triangulation station	Pylon, flare stack or lighting tower	Glasshouse	Important Building

CONSULT LIMITED Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pt
Lancashire And Furness	1:10,560	1947	2
Yorkshire	1:10,560	1948 - 1950	3
Yorkshire	1:10,560	1950	4
Lancashire And Furness	1:10,560	1950	5
Yorkshire	1:10,560	1950	6
Yorkshire	1:10,560	1951	7
Lancashire And Furness	1:10,560	1951	8
Lancashire And Furness	1:10,560	1953	9
Ordnance Survey Plan	1:10,000	1955	10
Ordnance Survey Plan	1:10,000	1972	11
10x Master Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2014	13

Historical Map - Slice A



Order Details

Order Number: 64967356_1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630

Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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Historical Mapping Legends

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

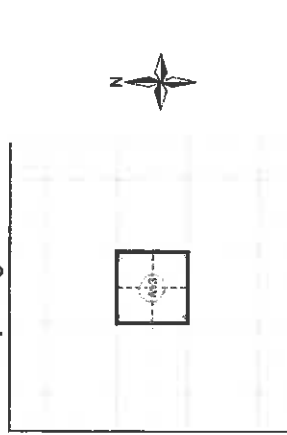
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1886	2
Lancashire And Furness	1:2,500	1886	3
Yorkshire	1:2,500	1908	4
Lancashire And Furness	1:2,500	1912	5
Ordnance Survey Plan	1:2,500	1932	6
Ordnance Survey Plan	1:2,500	1964	7
Additional Sills	1:2,500	1977	8
Large-Scale National Grid Data	1:2,500	1980 - 1983	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1995	11
Large-Scale National Grid Data	1:2,500	1998	12

Historical Map - Segment A13



Order Details

Order Number: 64967356, 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Sills: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



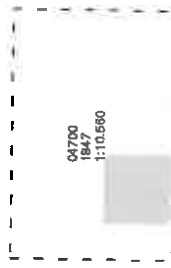
Tel: 0844 844 8852
Fax: 0844 844 8851
Web: www.univisio.co.uk

LK
CONSULT LIMITED
Lancashire And Furness
Published 1847

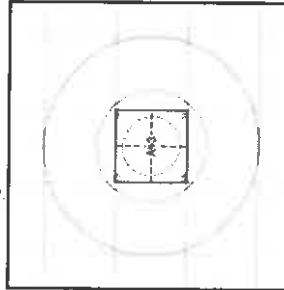
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1893, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1840's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The 1:10,000 maps continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 64967356.1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 6952
Fax: 0844 844 6951
Web: www.ensvechitect.co.uk

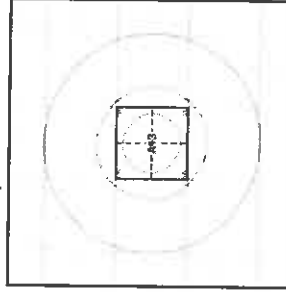


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey. These maps were used to update the 1:10,560 maps. The published maps of the Ordnance Survey are based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1840's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

18200	1850	1:10,560
18500	1848	1:10,560

Historical Map - Slice A

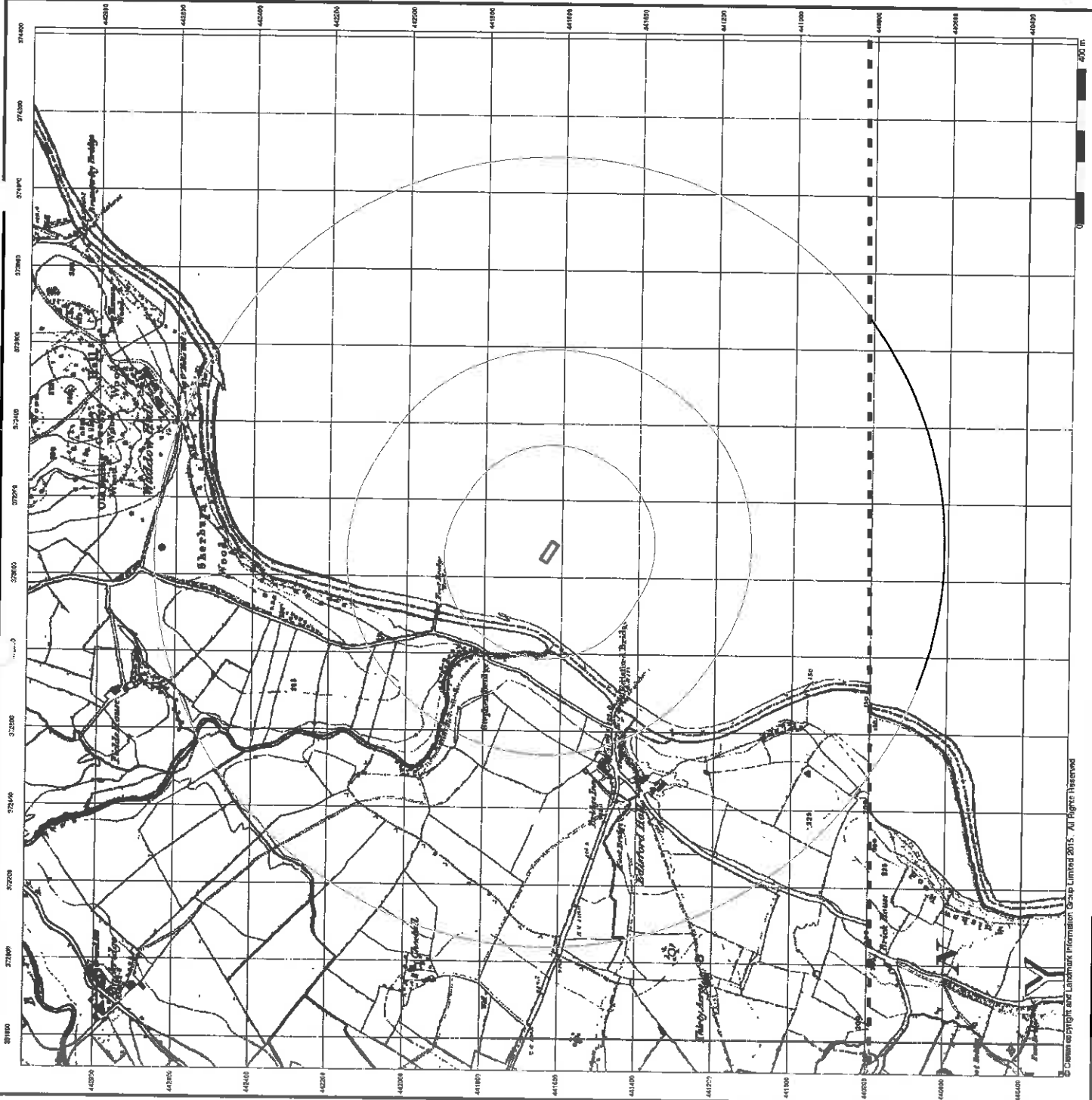


Order Details

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Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

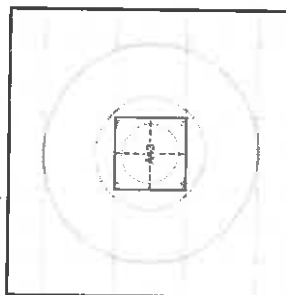


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is older than the surveyed data. Before 1938, all OS maps were based on the County of York, with independent surveys of a single county or group of counties, covering the area of the county, which updated the 1:10,560 mapping from a number of sources. The maps were not finished - with all military camps and other strategic areas removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

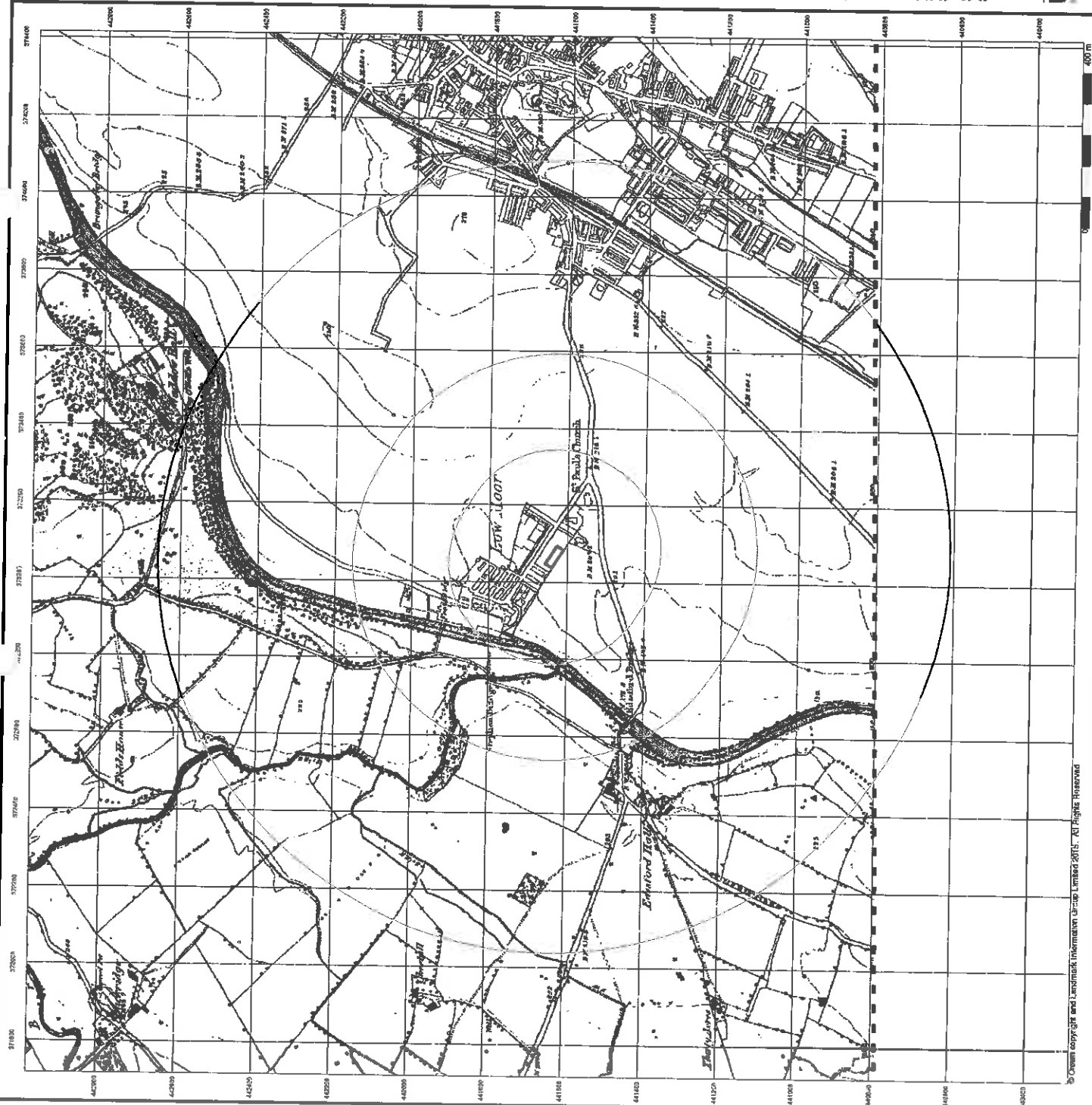


Order Details

Order Number: 64967356_1_1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
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Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS





CONSULT LIMITED

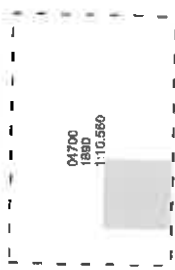
Lancashire And Furness

Published 1890

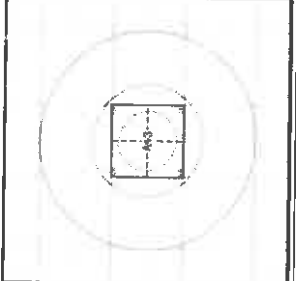
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale of 1:10,560 for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for the mapping of urban areas; these maps were used to update the 1:10,560 maps. The 1:10,560 maps were produced from maps often some years later than the surveyed data. Before 1939, the maps were based on the Cassini Projection, with independent surveys of adjacent county or group of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 64967356, 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0544 844 0952
Fax: 0544 844 8851
Web: www.entrack.co.uk

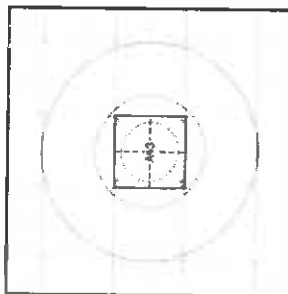
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940's. In 1854 a new system was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the actual year of the survey. Before 1938, all OS maps were based on the Cassini Projection. In 1938, the Ordnance Survey introduced the new Transverse Mercator Projection. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

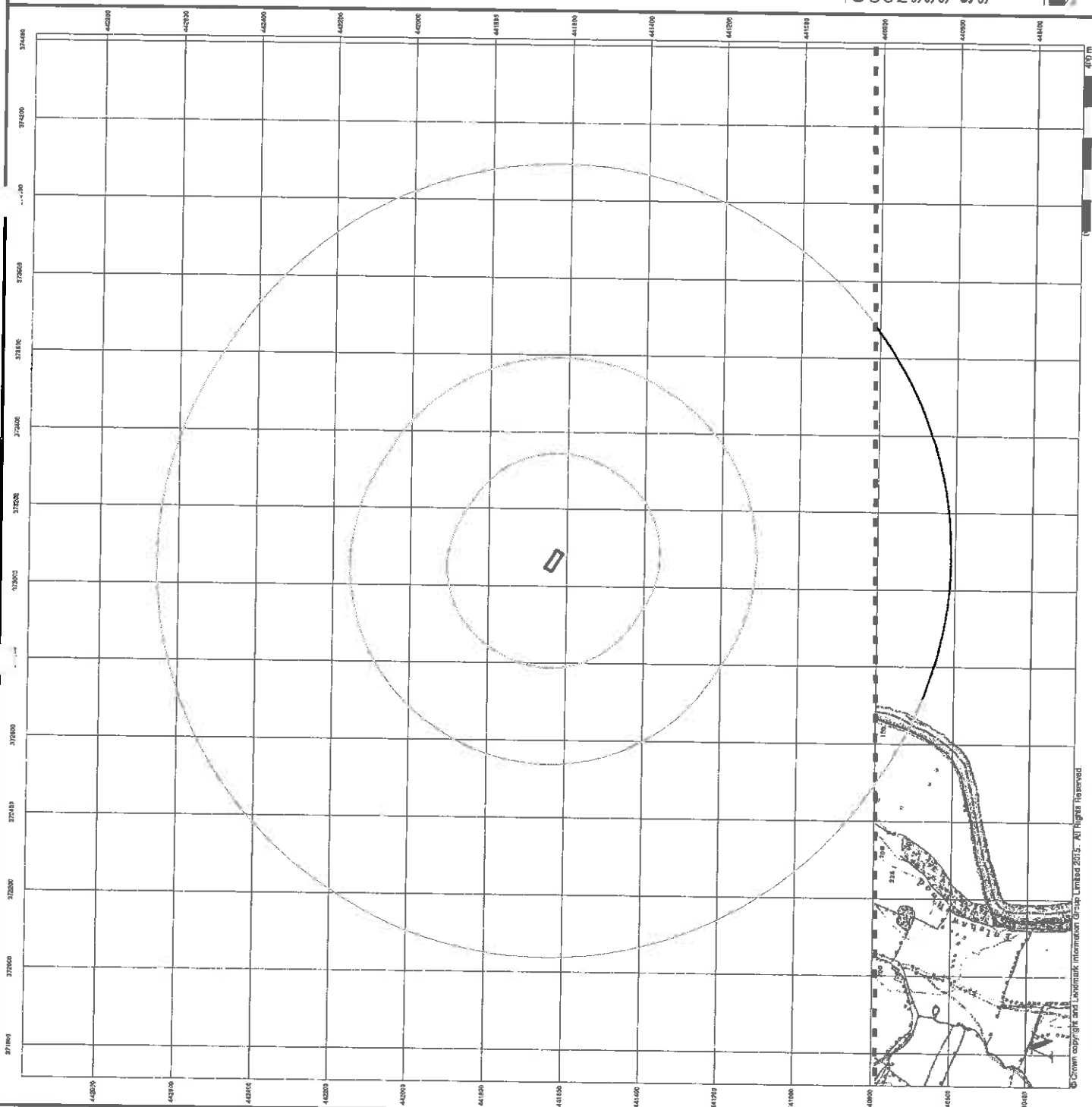


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Site Area (Ha): 0.11
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Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

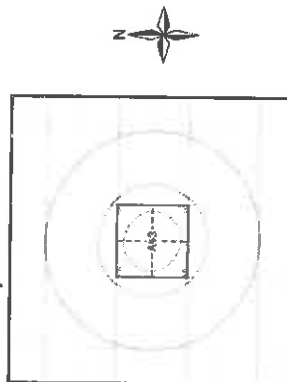


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:10,560 scale was adopted for England, Wales and Scotland. These maps were used to update the 1:10,560 maps. The published data is therefore based on maps often some years later than the surveyed data. Before 1988, all Ordnance Survey maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

182SW	182SE
1911	1911
1:10,560	1:10,560
188NW	188NE
1911	1911
1:10,560	1:10,560

Historical Map - Slice A

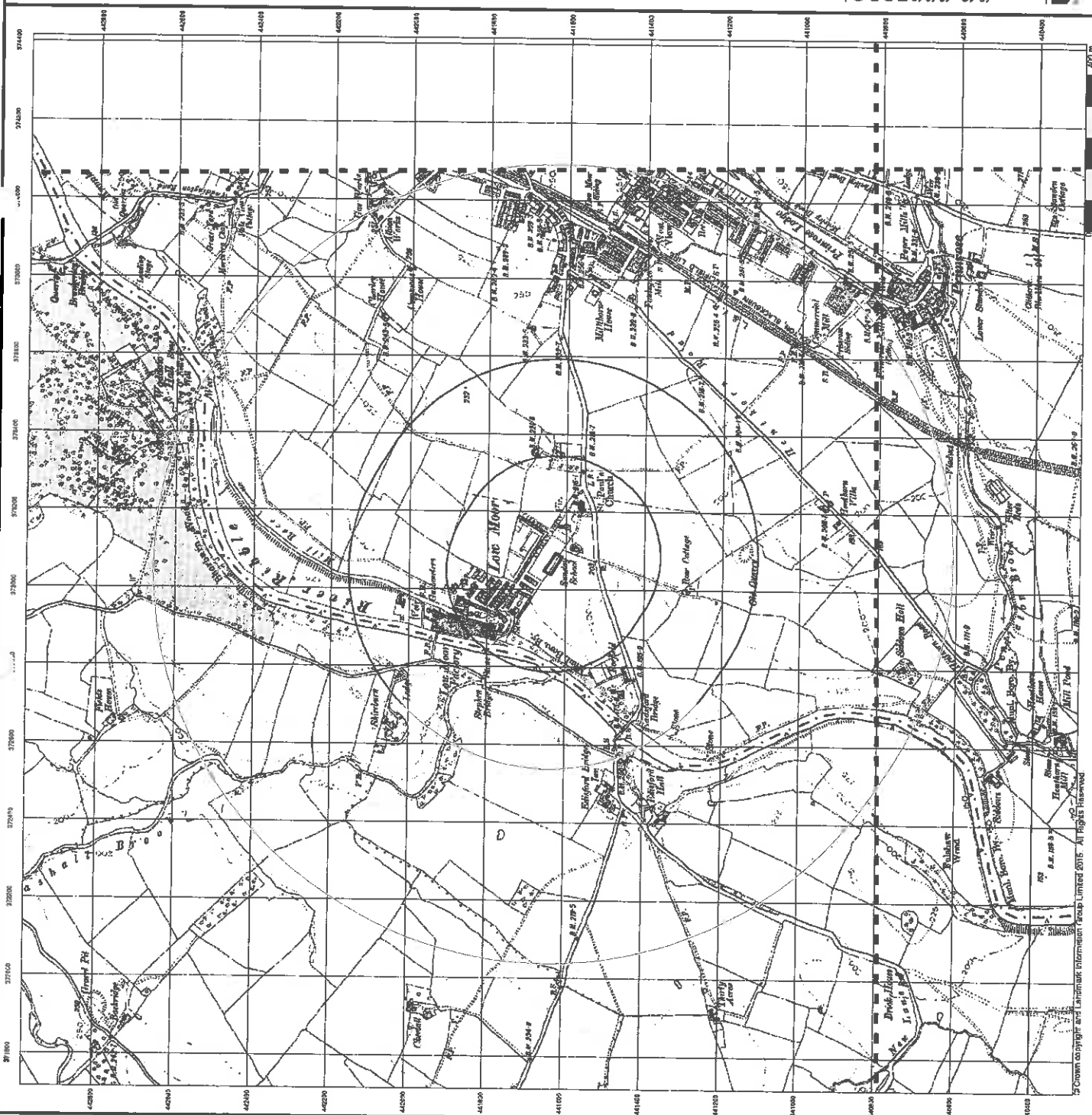


Order Details

Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS





CONSULT LIMITED
Lancashire And Furness
Published 1914

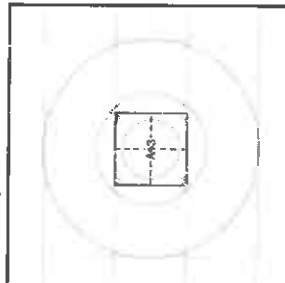
Source map scale - 1:10,560

The historical maps shown were reproduced from maps reproduced by the Ordnance Survey at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The 1:10,000 maps continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

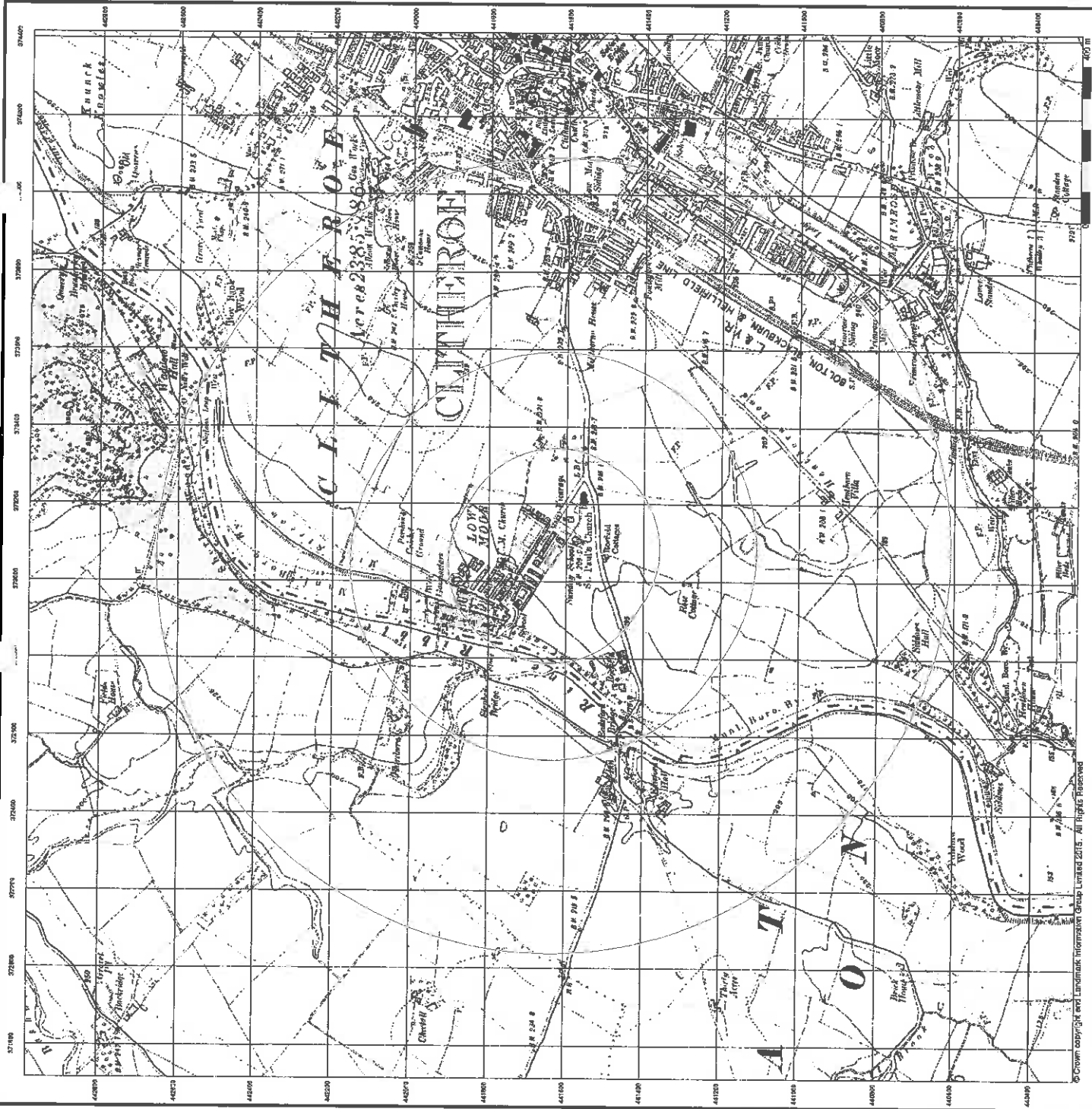
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Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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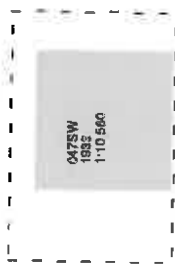


CONSULT LIMITED Lancashire And Furness Published 1933

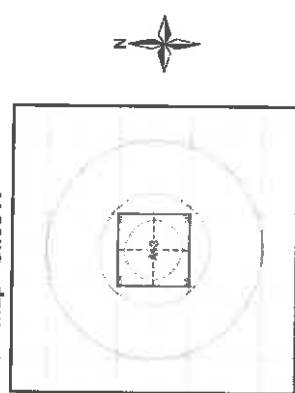
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was used for the urban areas, these maps were used to update the 1:10,560 maps. The urban areas were then some years later than the surveyed data. Before 1898 all OS maps were based on the Cassini Projection, with independent inaccuracies of a single county or group of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

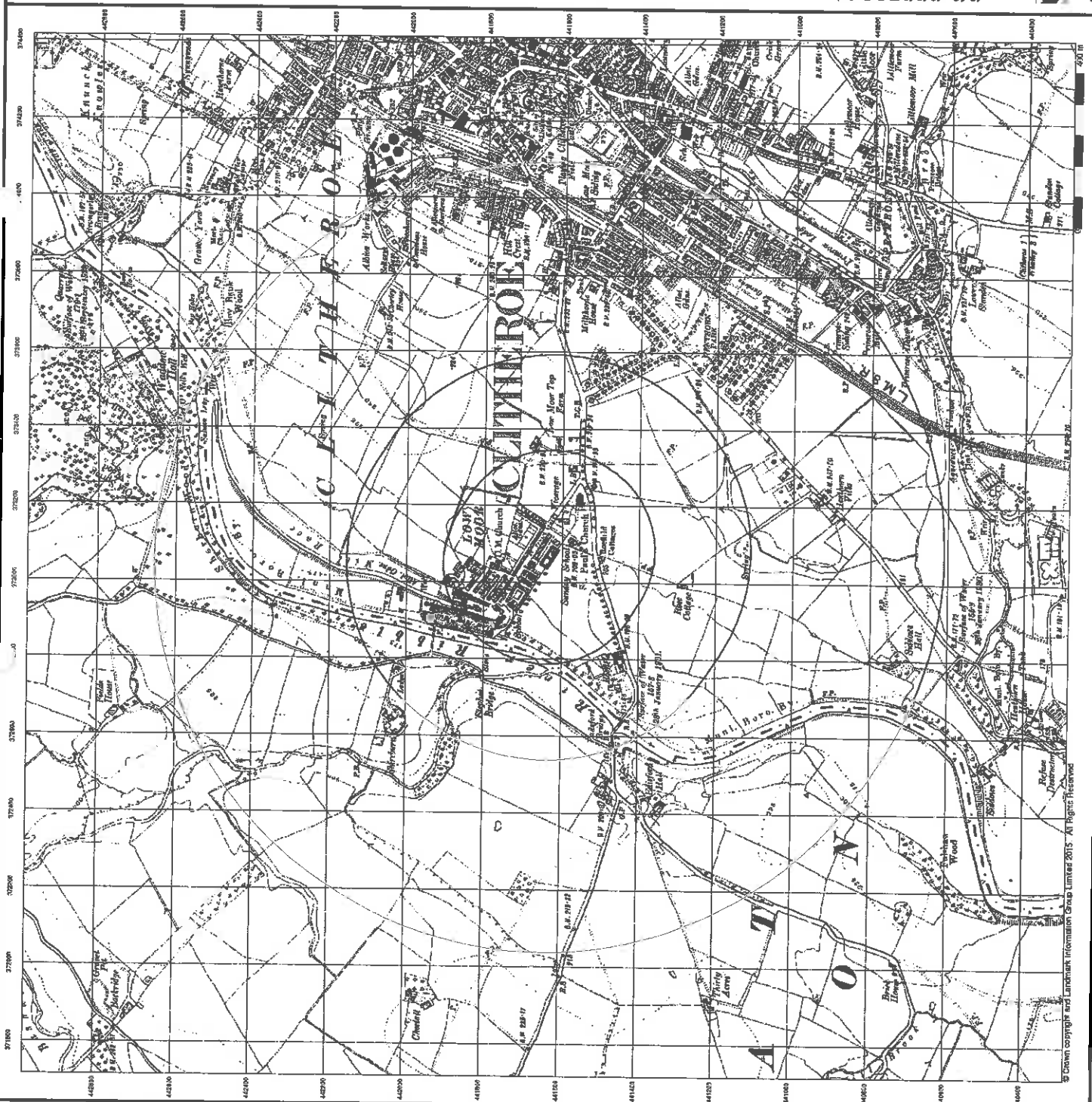
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Customer Ref: LKC-15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

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Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale acquired for England, Wales and Scotland in the 1940s so, in 1964 at the latest, the 1:2,500 maps were the most recent. For mapping urban areas, these maps were used to update the 1:10,560 maps. The published data given therefore were often some years later than the original data. Before 1950, all OS maps were based on the Cassini Projection with the exception of a few surveys of a single county or of a number of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps, which were published in 1950, were initially overprinted with all military camps and other strategic sites removed. These 1:10,560 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

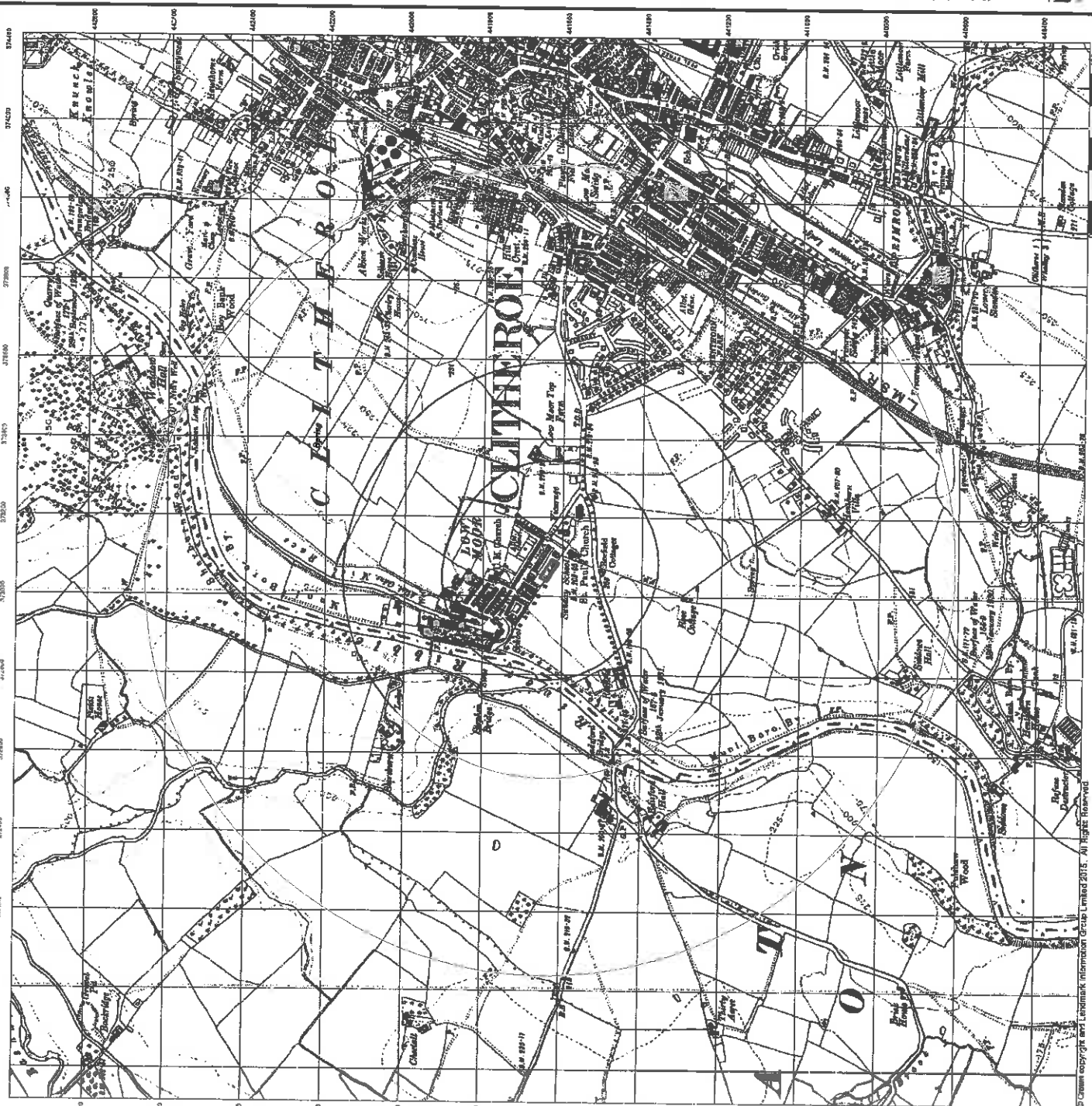
047SW
1228
1-10-560

Order Number: 64967356_1_1
Customer Ref: LKC 15 1072
International Gld Reference: 373070, 441630

at Paul's Terrace, Clitheroe, BB7 2LS



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Web: www.environmentcheck.co.uk



Landmark CONSULT LIMITED **Ordnance Survey Plan** **Published 1955**

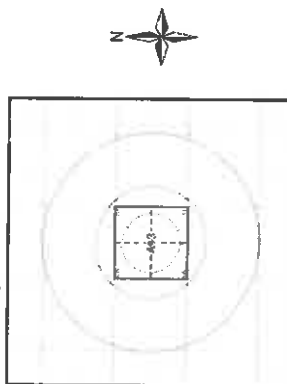
Source map scale - 1:10,000

The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey, which were produced in the 1940's. In 1854 the 1:2,500 scale maps were produced. These maps were used to update the 1:10,000 scale maps. The maps were often some years later than the surveyed data. Before 1939, the maps were based on the Cassini Projection, with independent surveys of a village or group of villages, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

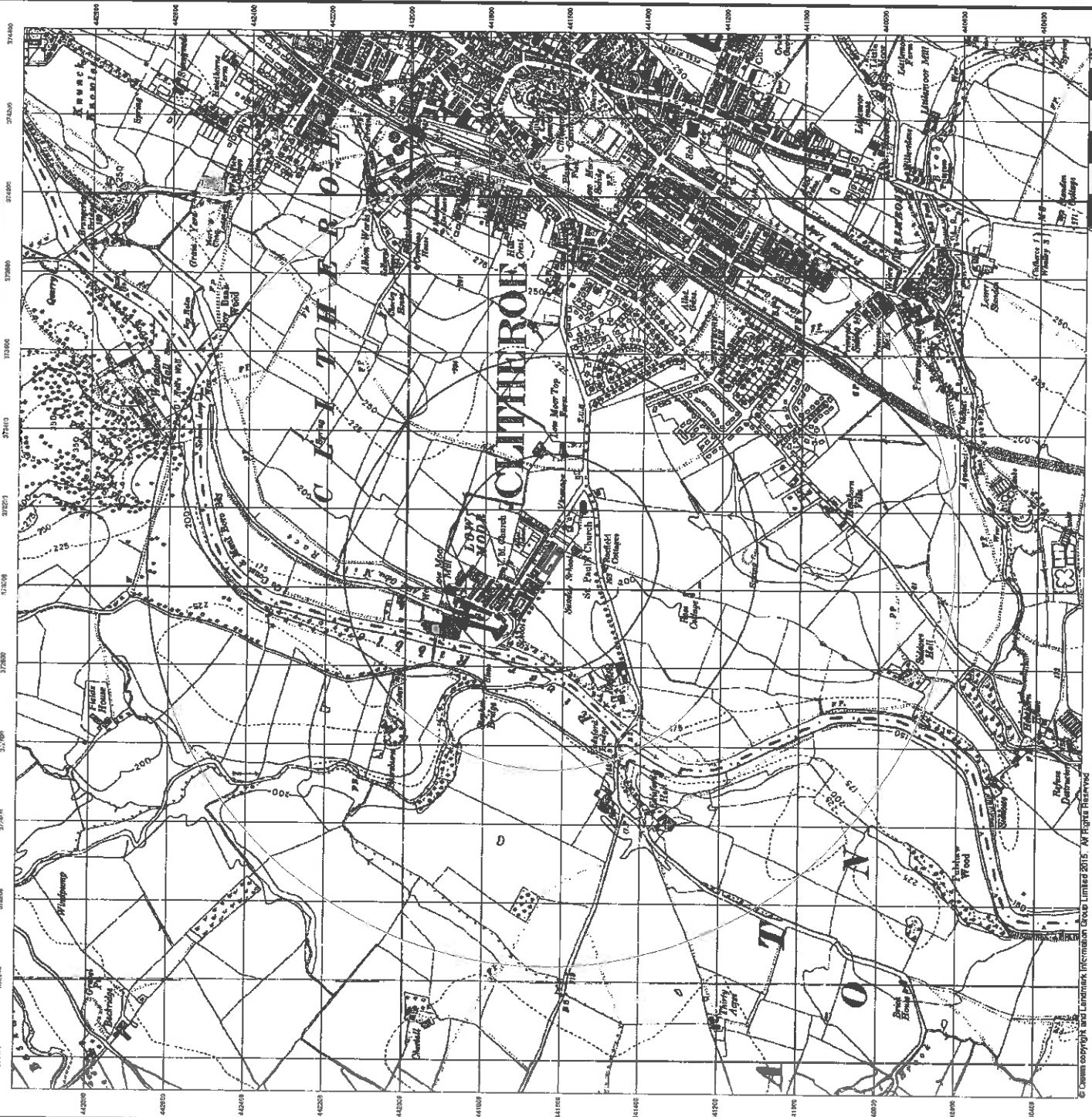
Order Number: 64967356 1_1
 Customer Ref: LK 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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 Fax: 0844 844 0853
 Web: www.ordnancesurvey.co.uk



Landmark CONSULT LIMITED Ordnance Survey Plan Published 1972

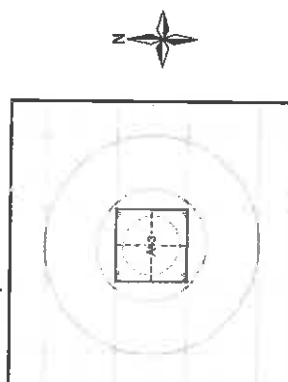
Source map scale - 1:10,000

The historical maps shown are reproduced from maps predominantly held at the Ordnance Survey for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was used to produce a new edition of the map. These maps were used to update the 1:10,000 maps. The 1:10,000 maps were then updated to reflect changes in the landscape. The maps were then updated to reflect changes in the landscape. The maps were then updated to reflect changes in the landscape.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 64987356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

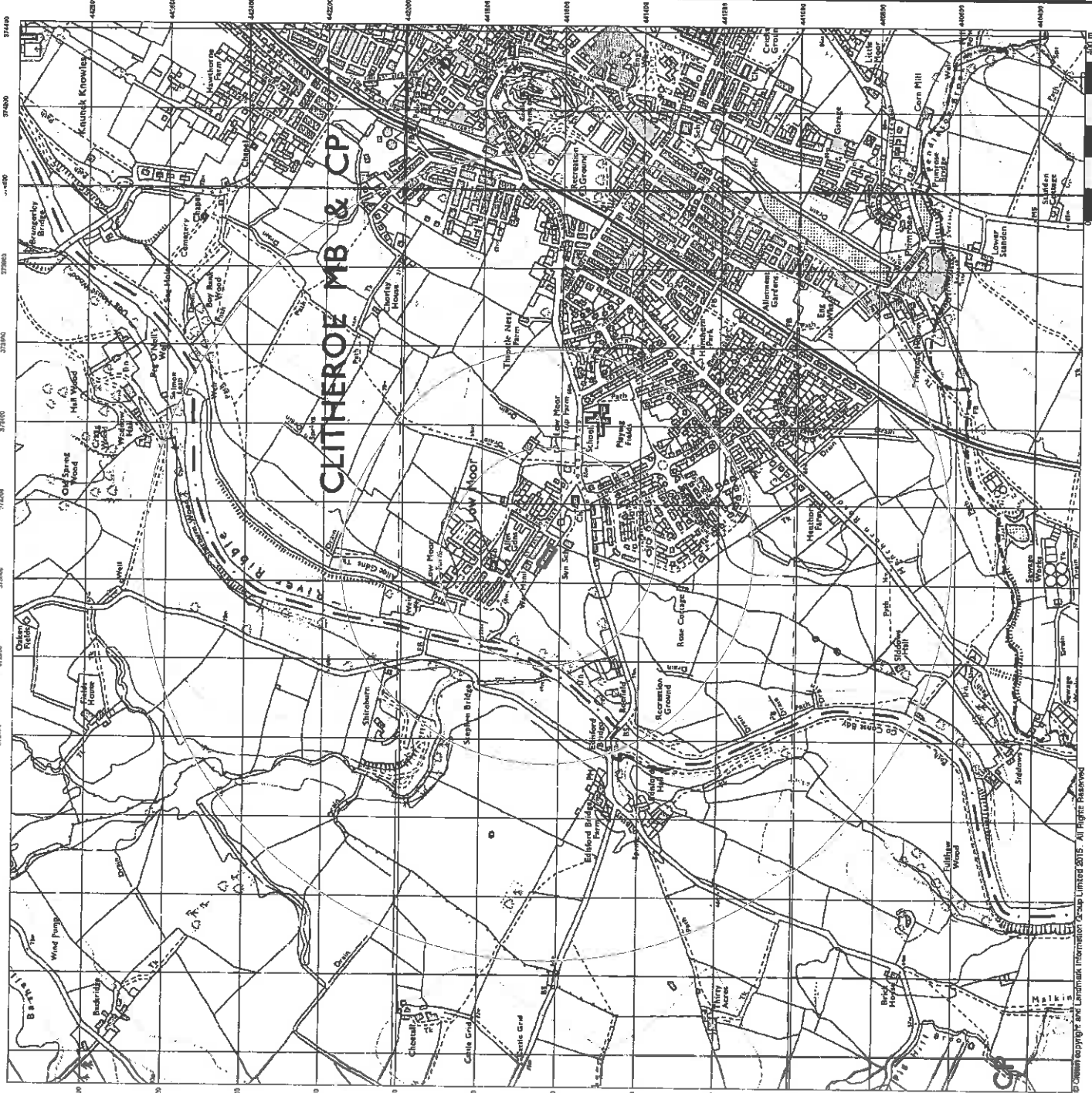
Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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Fax: 0844 844 3851
Web: www.unweclink.co.uk

CLITHEROE MB & CP



Landmark **CONSULT LIMITED** **10k Raster Mapping** **Published 2006**

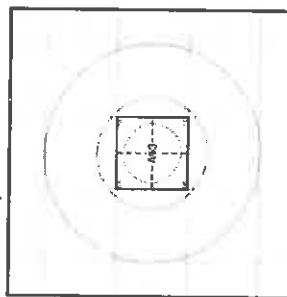
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour aerial photography. These maps are derived from Landplan which replaced the old 1:10,000 black and white maps. The data is highly detailed showing buildings, forestry, fields, roads, tracks, roads, tracks and paths. Road names are also included. The data includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SD74SW
 2006
 1:10,000

Historical Map - Slice A



Order Details

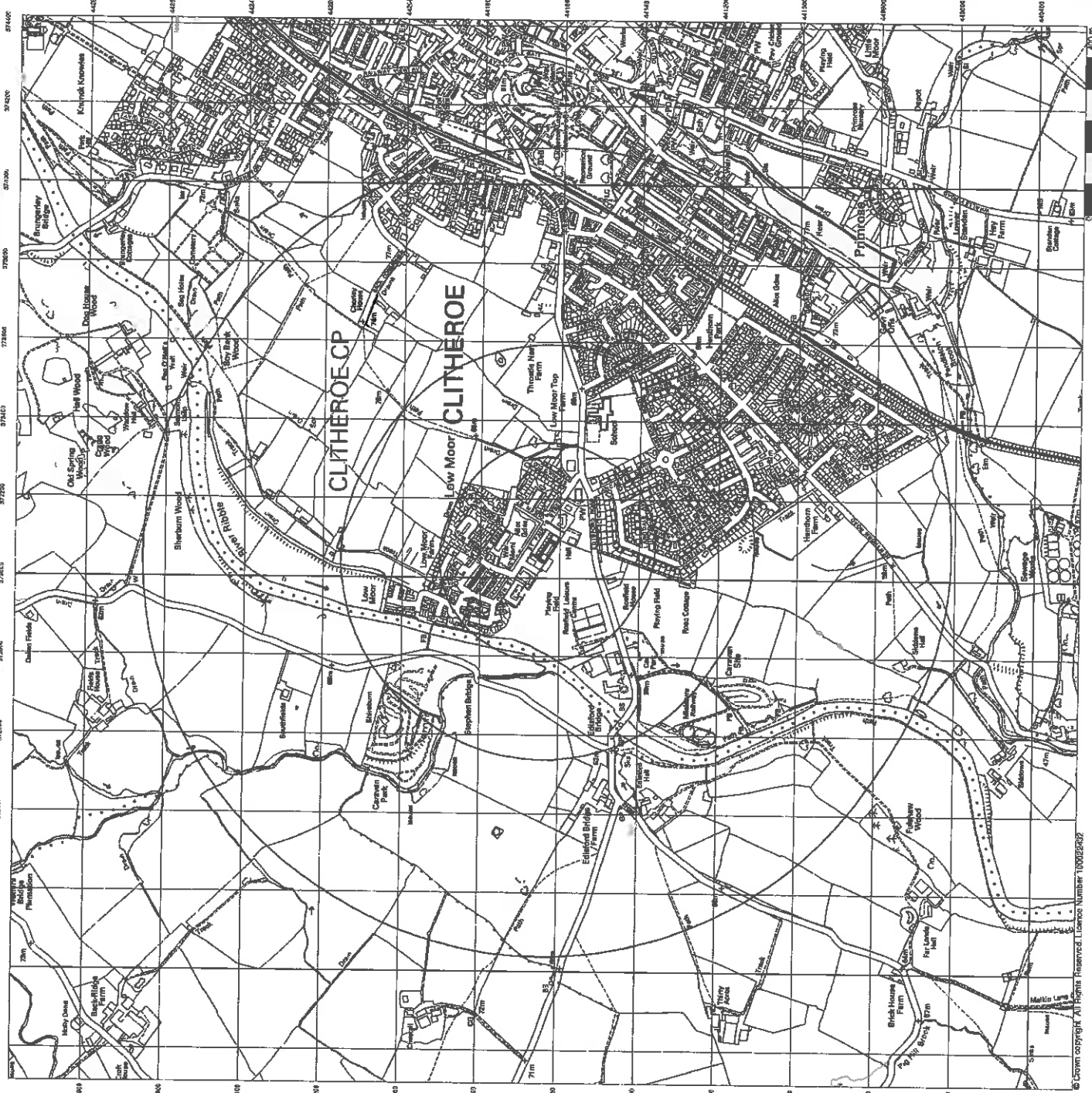
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 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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 Fax: 0844 844 8951
 Web: www.entrachook.co.uk



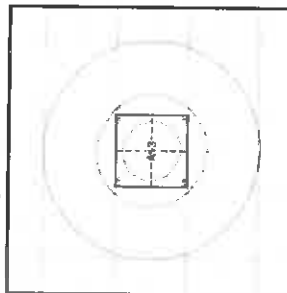
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' map. These maps are produced from OS's VectorMap Local, a simple vector-based map of Great Britain, covering the whole of Great Britain, that has been designed for high quality graphic mapping. OS VectorMap Local is derived from large-scale trigonometric survey data at 1:2500 scale (covering major towns and cities), 1:2500 scale (smaller towns and villages and developed rural areas), and 1:10,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

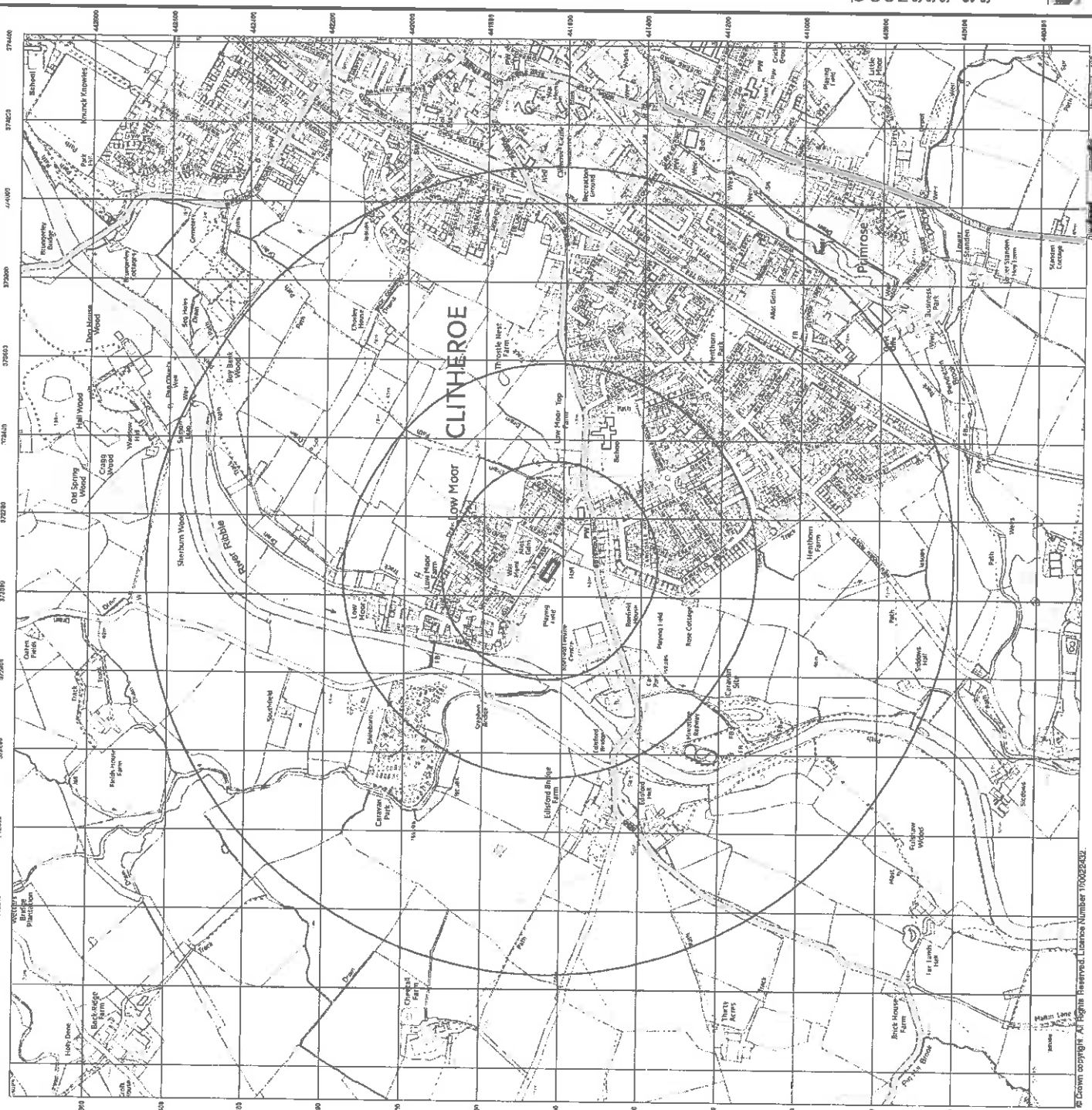
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Search Buffer (m): 1000

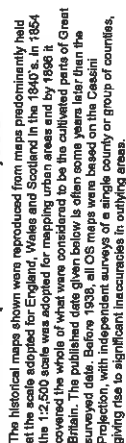
Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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Fax: 0844 844 8857
Web: www.entravest.co.uk





REC-4
1808
1-2-2000

Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 100

St Paul's Terrace, Clitheroe, BB7 2LS



Lancashire And Furness Published 1886

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey (England, Wales and Scotland) in the 1840's. In 1854 the Ordnance Survey began mapping urban areas and by 1860 it covered the whole of what were considered to be the conurbation areas of Great Britain. The published date given below is often the date of the original survey. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

047 10 1885 1:2,500	047 14 1885 1:2,500
047 13 1885 1:2,500	

Historical Map - Segment A13



Order Details

Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630

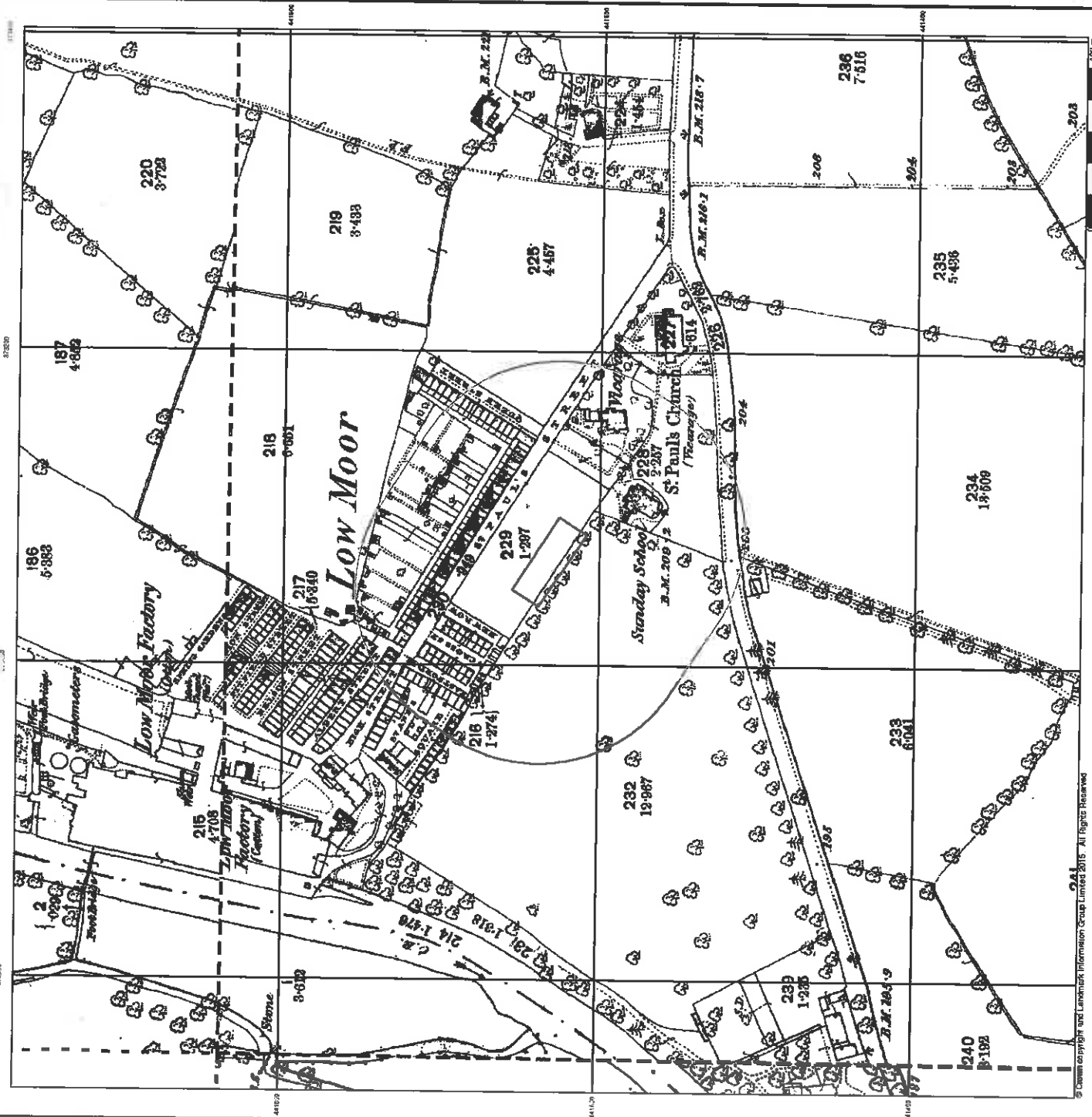
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 8882
Fax: 0844 844 8851
Web: www.envisabank.co.uk

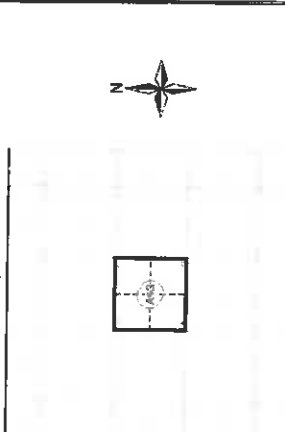


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for mapping the whole of Great Britain. The published data given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

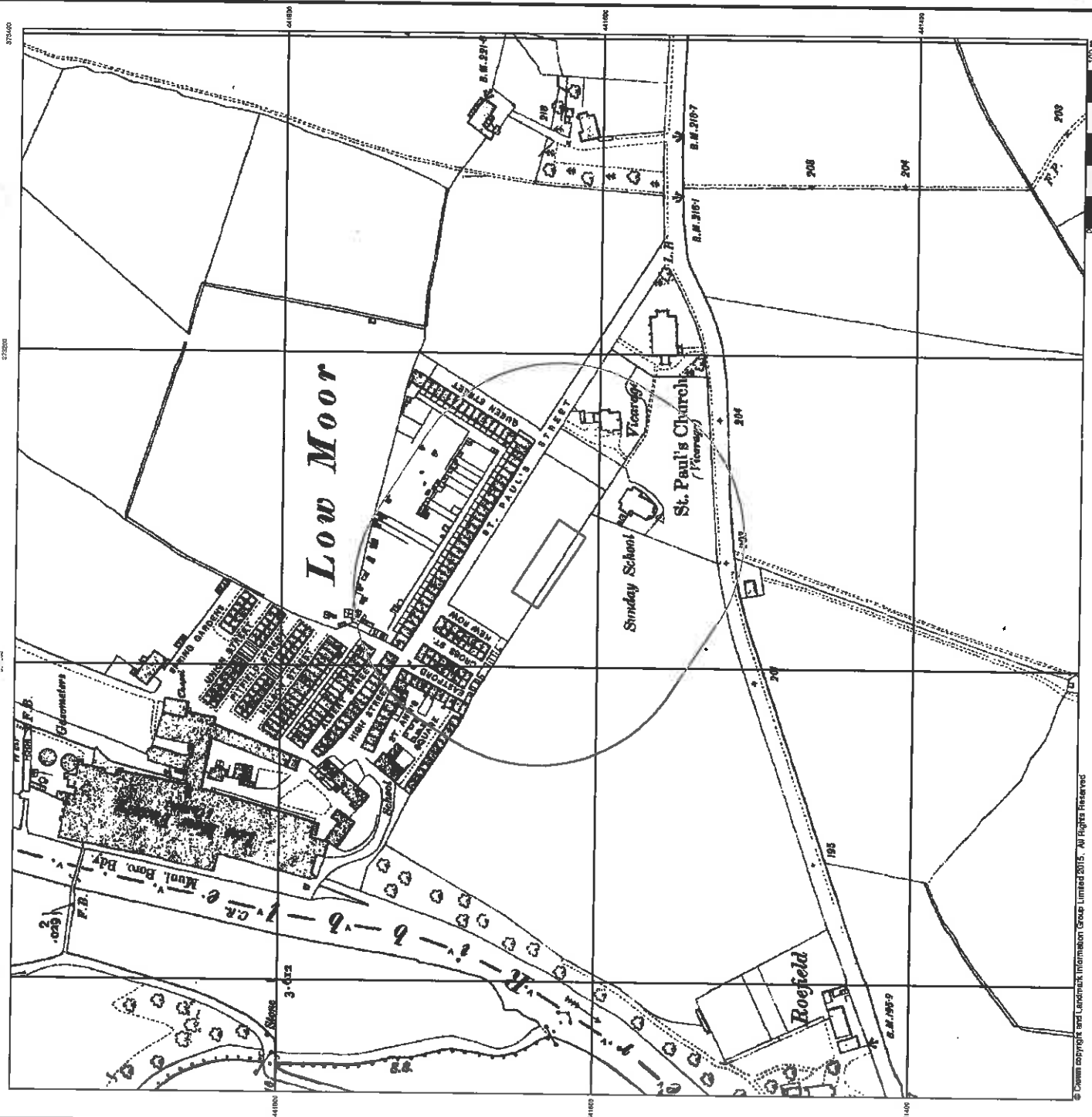


Order Details

Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale of 1 inch to 2500 feet, Wales and Scotland in the 1840's, in 1854 the 1:2,500 scale was adopted for the whole of England and by 1900 it covered the whole of what was considered to be the true area of Great Britain. The published data given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

047 10 1812 1:2,500	047 14 1812 1:2,500
047 13 1812 1:2,500	

Historical Map - Segment A13



Order Details

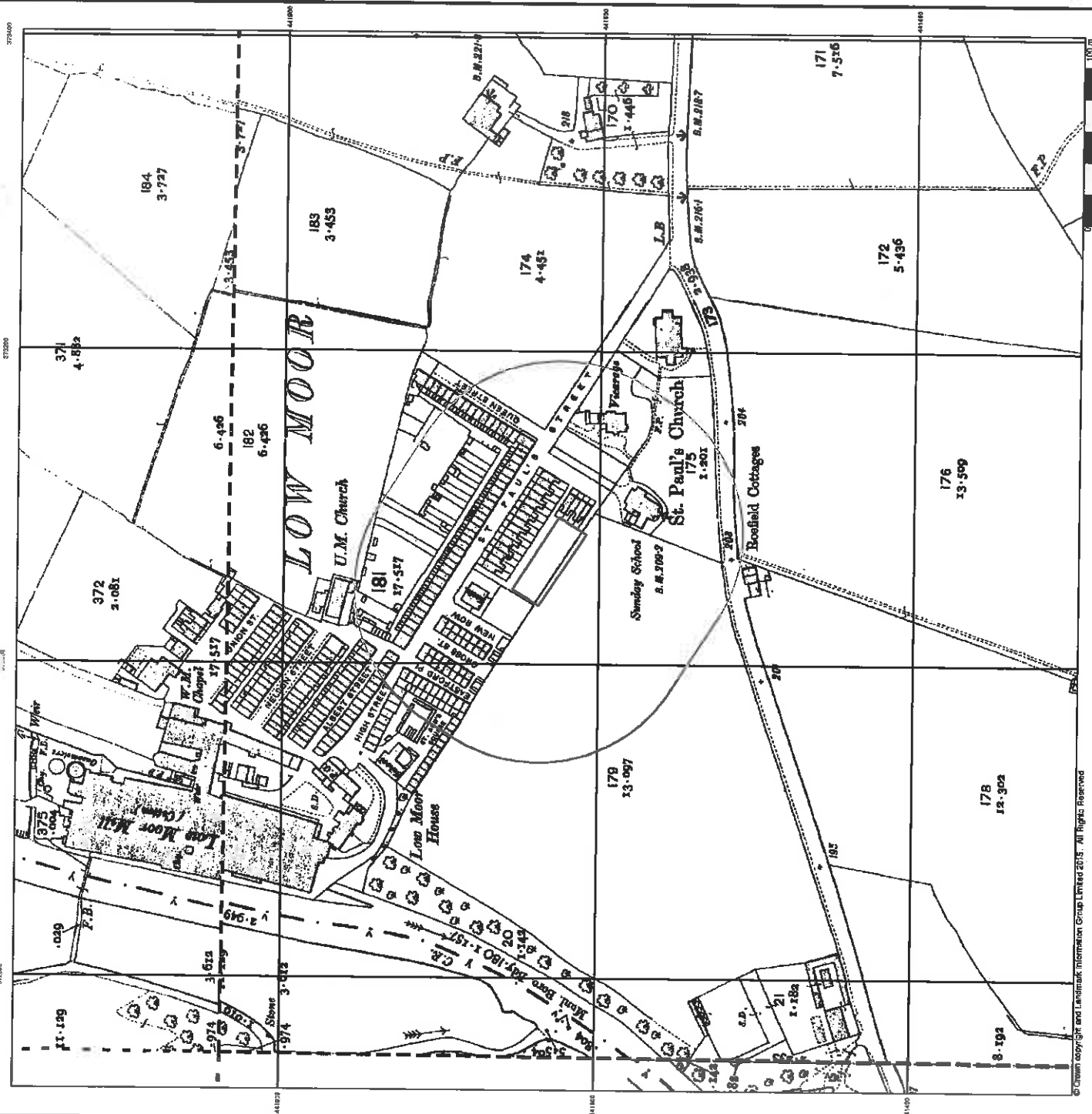
Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 8852
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Web: www.enrwood.co.uk



The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for the Ordnance Survey maps of Great Britain. The published data given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

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047 13	1932	1:2,500
047 14	1932	1:2,500

Historical Map - Segment A13

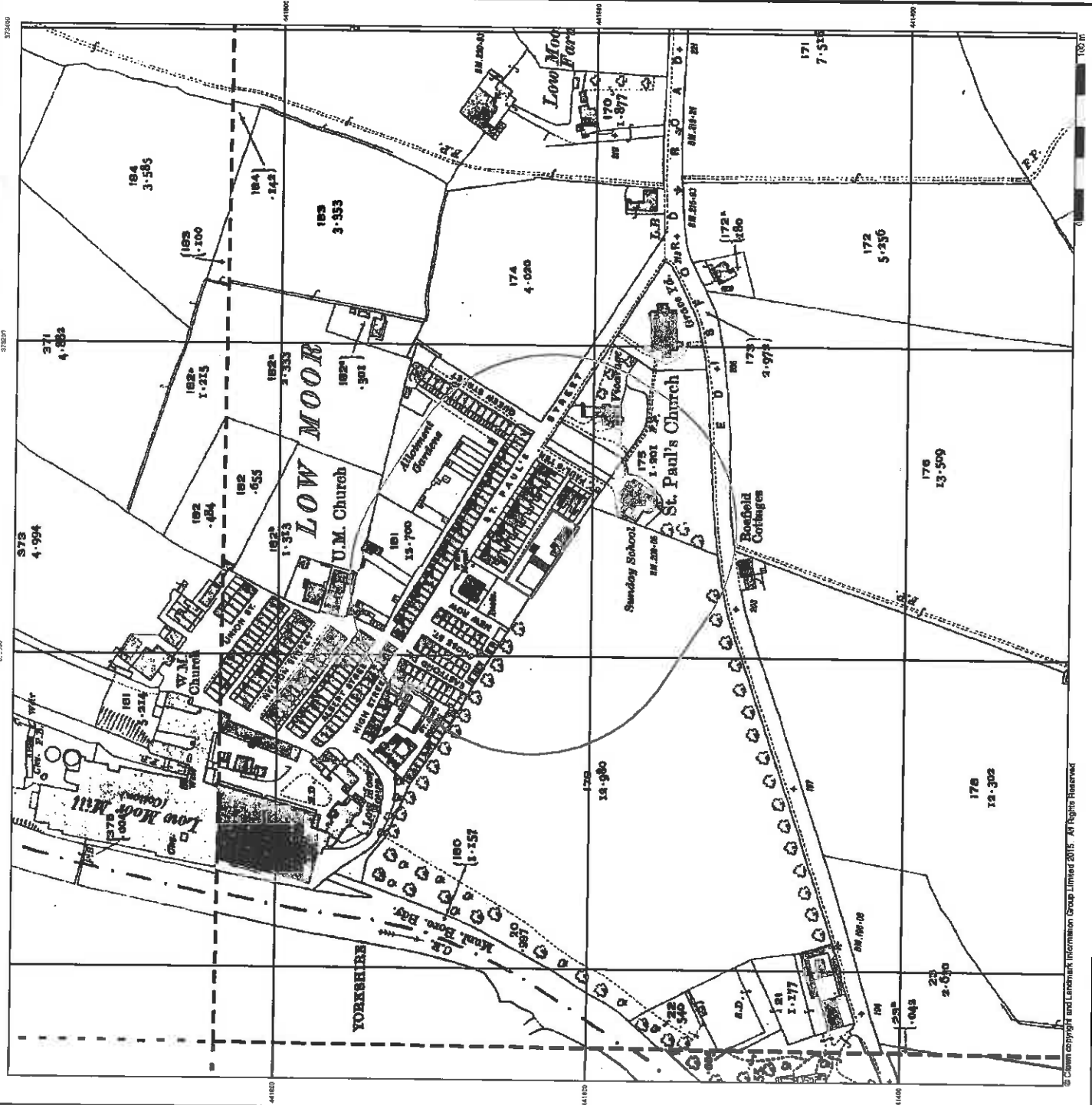


Order Details

Order Number: 64967356 1.1
Customer Ref: LKC 15 072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

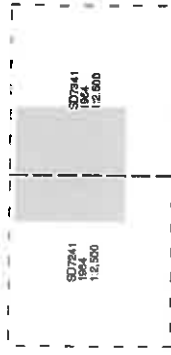


LK CONSULT LIMITED **Ordnance Survey Plan** **Published 1964**

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for the 1:2,500 scale maps of Great Britain and Ireland in 1864. The maps were surveyed between 1864 and 1868. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

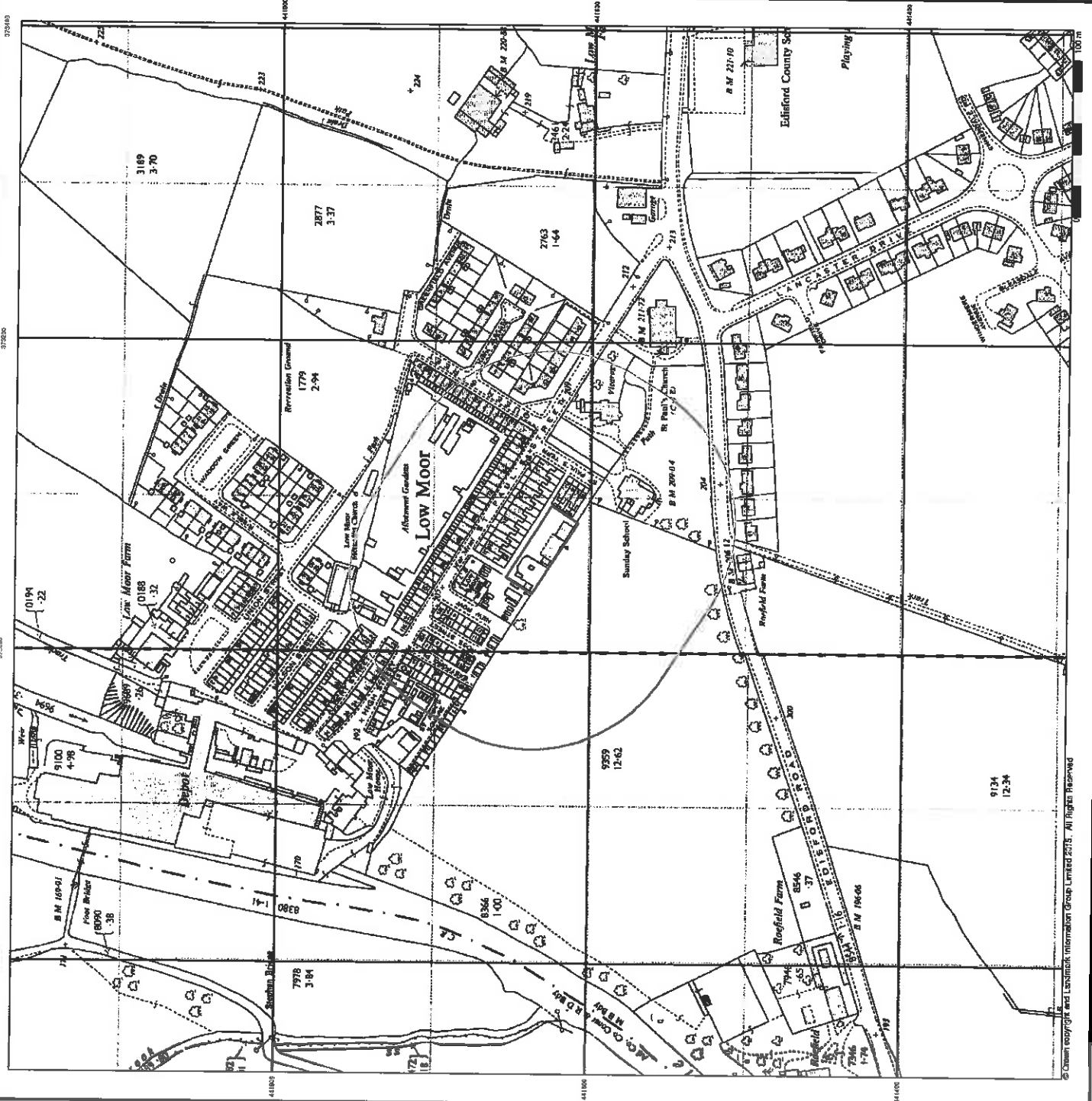
Order Number: 64987356.1.1
 Customer Ref: LK 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroes, BB7 2LS



Tel: 0844 844 8855
 Fax: 0844 844 8855
 Web: www.ordnancesurvey.co.uk

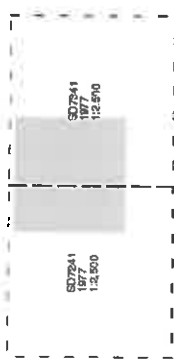


LK
CONSULT LIMITED
Ordnance Survey Plan
Published 1977

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale acquired for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale maps were produced for mapping urban areas and by 1890 it covered the whole of what was then Great Britain. The published date given below is often the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

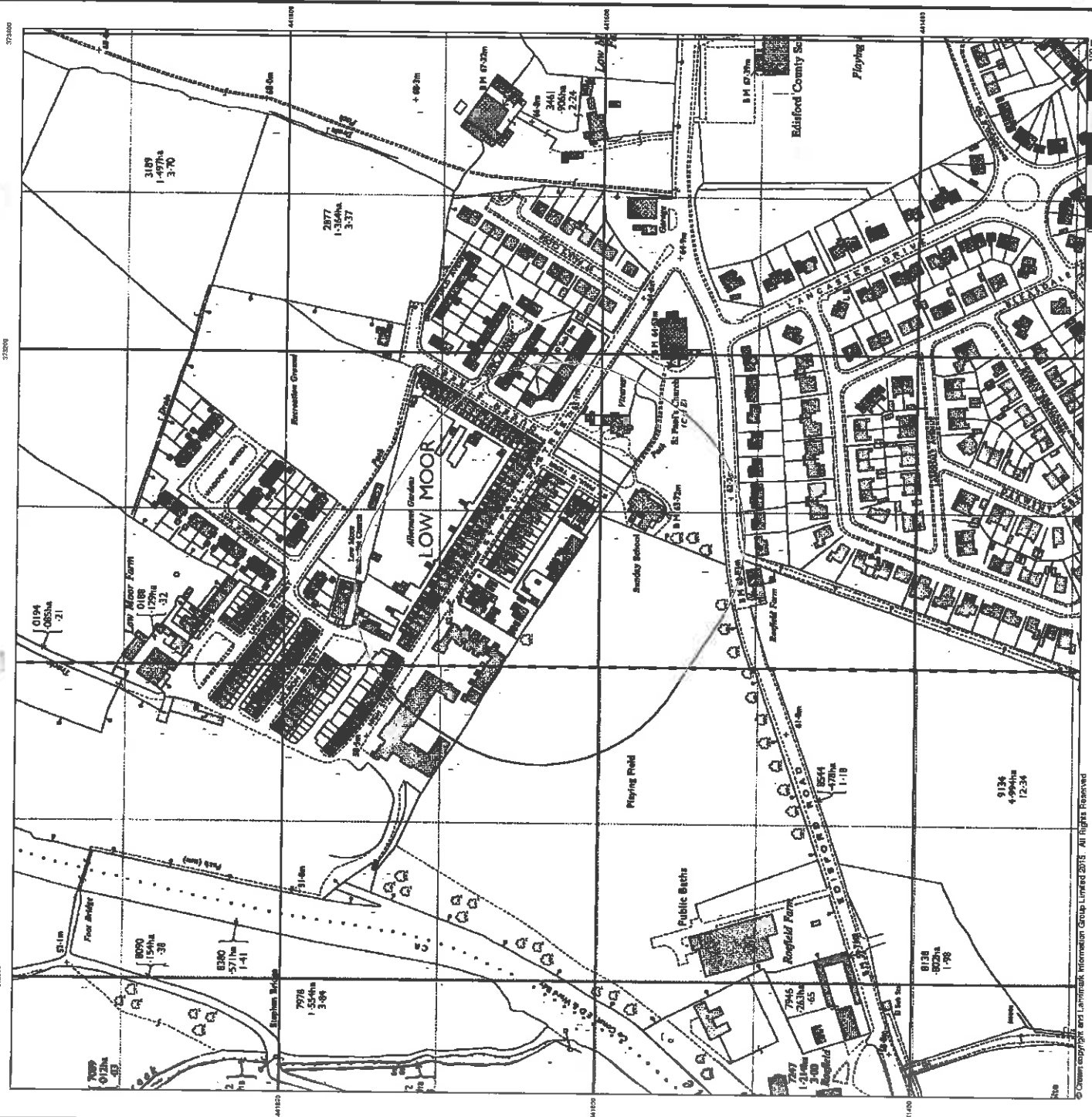
Order Number: 64967356 1.1
 Customer Ref: LK 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

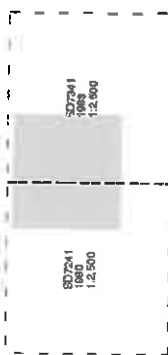


Tel: 0544 844 0052
 Fax: 0544 844 0051
 Web: www.entrack.co.uk



The SIM cards (Ordinance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as they arose. They date from 1947 to 1994, and contain detailed information on buildings, land use, and other features. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

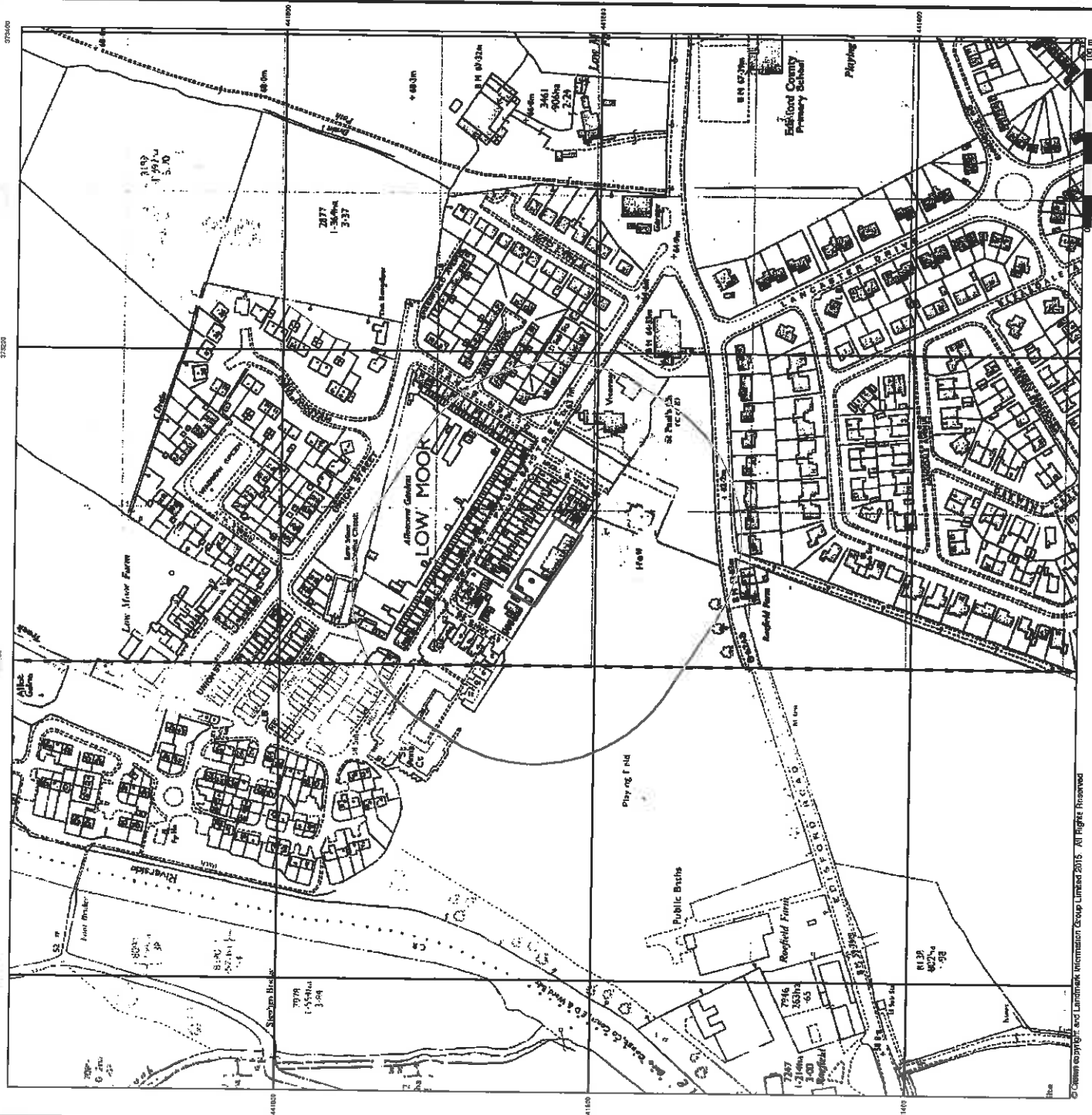


Order Details

Order Number: 64967356 1.1
Customer Ref: LK 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS





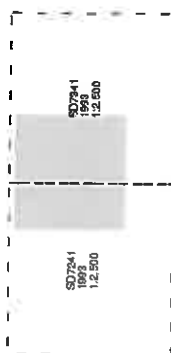
Large-Scale National Grid Data

Published 1993

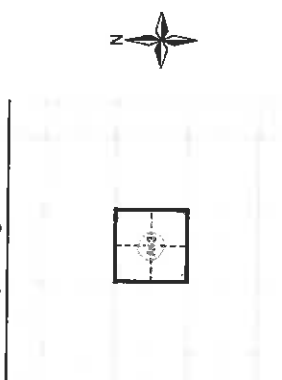
Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1998. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 64967356_1_1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630

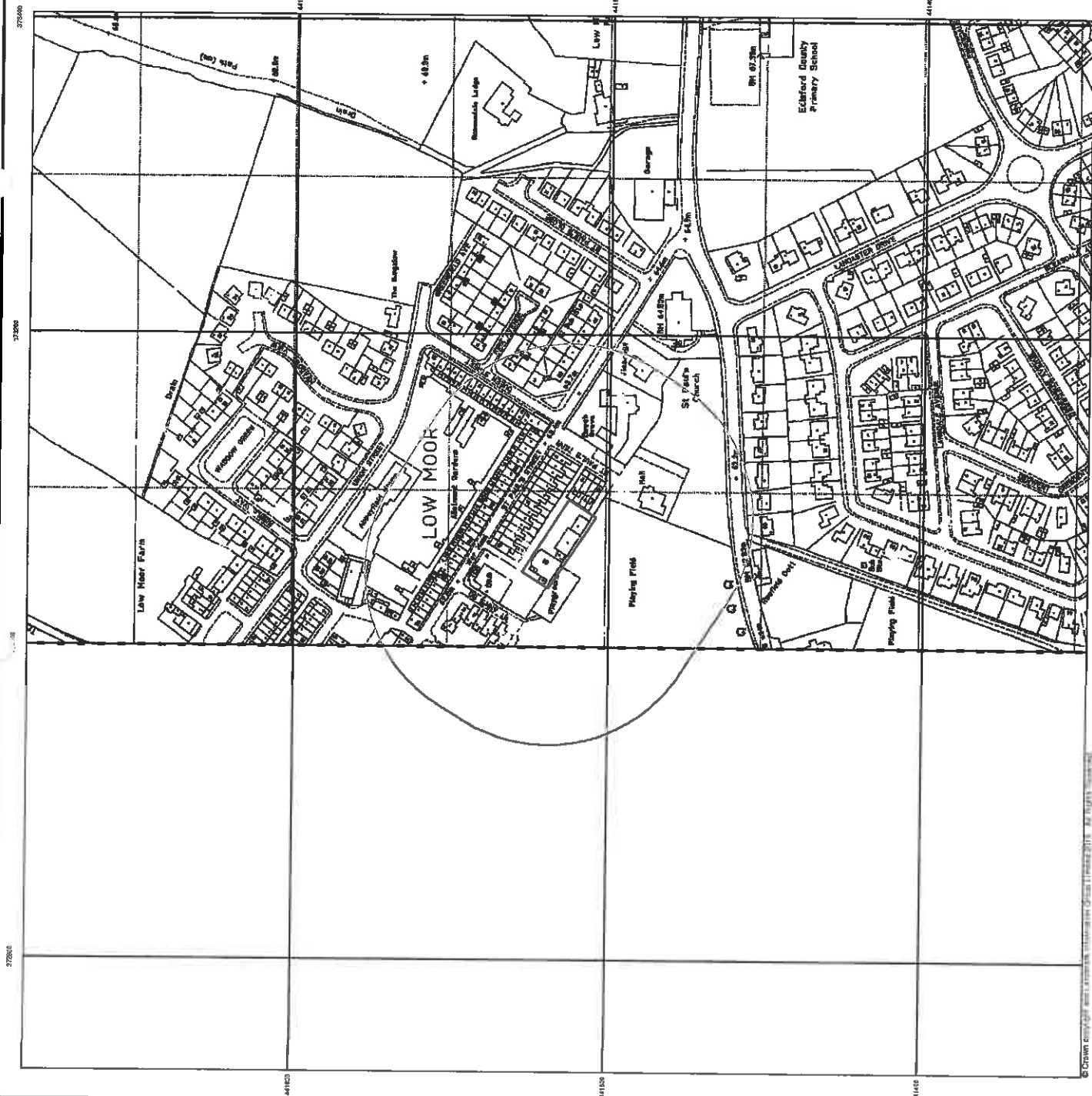
Parameter	Value
Initial Area (Ha)	0.11
Search Buffer (m)	100

Site Details

at Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 9052
Fax: 0844 844 9051
Web: www.envirotech.co.uk

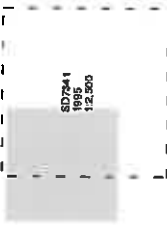


Large-Scale National Grid Data Published 1995

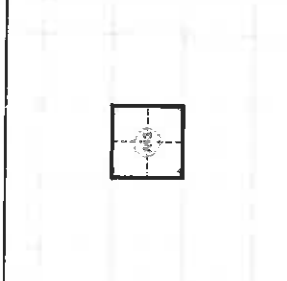
Source map scale - 1:2,500

Large Scale National Grid Data superseded 50M grids (Ordnance Survey's 'Series of 1:25,000' maps) in 1962, and continued to be produced until 1999. These maps were the first to be produced using digital mapping and so provide detailed information on both the built and natural environment, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clithorpe, BB7 2LS



Tel: 0844 844 0852
Fax: 0844 844 0853
Web: www.enrichment.co.uk



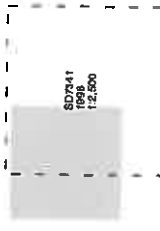
Large-Scale National Grid Data

Published 1996

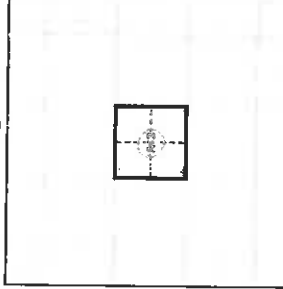
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1996. These maps were the first series of digital mapping and so provide the first digital information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

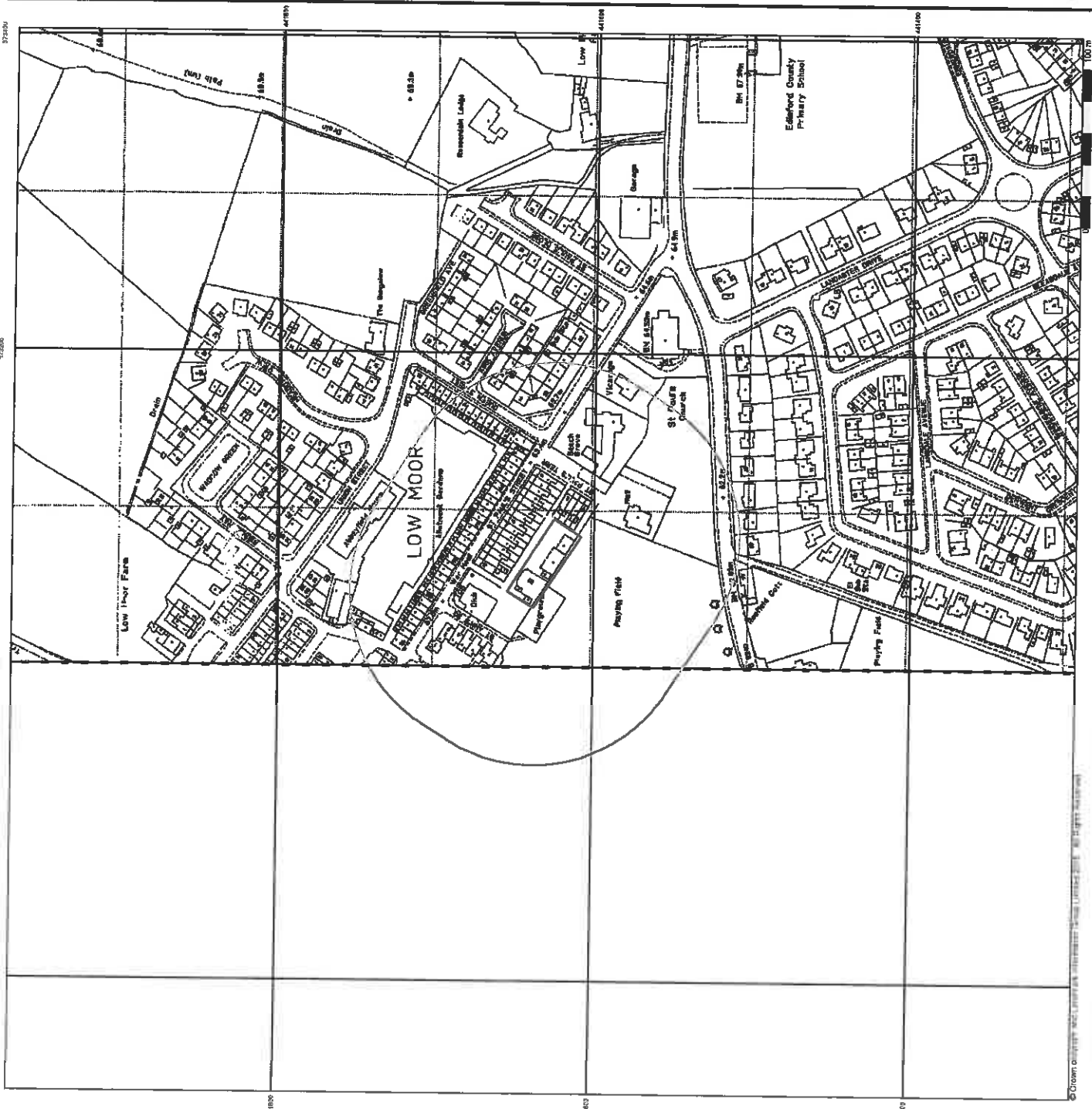
Order Number: 64987356_1_1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



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Fax: 0244 844 8851
Web: www.landmark.co.uk



APPENDIX B

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

64967356_1_1

Customer Reference:

LKC 15 1072

National Grid Reference:

373070, 441630

Slice:

A

Site Area (Ha):

0.11

Search Buffer (m):

1000

Site Details:

St Paul's Terrace

Clitheroe

BB7 2LS

Client Details:

L Consult

LK Consult Ltd

Bury Business Centre

Kay Street

Bury

Lancashire

BL9 6BU

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	17
Industrial Land Use	25
Sensitive Land Use	-
Data Currency	28
Data Suppliers	33
Useful Contacts	34

Introduction

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

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Peter Brett Associates Copyright Notice

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v49.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		3	3	10
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 5				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5		3	9	9
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 8			2	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 9			1	
Substantiated Pollution Incident Register	pg 9			1	5
Water Abstractions	pg 10				(*14)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 13	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 14		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 15		Yes	Yes	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 16		1		1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 23	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 23		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 24	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 25		6	2	20
Fuel Station Entries	pg 27		1		1
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Low Moor Ps, Adj Roundabout, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01rib0012 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: S.W. System Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	229	2	372850 441770
1	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Low Moor Ps, Adj Roundabout, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01RIB0012 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Storm /emergency overflow Discharge: Into And/Or Watercourse Environment: Receiving Water: S.W. System Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	229	2	372850 441770
1	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - Water Company Location: Riverside Sps, Low Moor, Clitheroe, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160135 Permit Version: 1 Effective Date: 31st July 1981 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ribble Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	246	2	372850 441800
2	Discharge Consents Operator: Shirebourne Park Limited Property Type: Other Tourist/Short Stay Accommodation Location: Shireburn Caravan Park Waddington Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Ribble Reference: 017190766 Permit Version: 1 Effective Date: 5th June 2003 Issued Date: 5th June 2003 Revocation Date: 1st May 2014 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook Trib R. Ribble Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	396	2	372730 441890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 3 Effective Date: 2nd November 2015 Issued Date: 2nd May 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	455	2	372663 441897
3	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 2 Effective Date: 2nd May 2014 Issued Date: 2nd May 2014 Revocation Date: 1st November 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	455	2	372663 441897
4	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Adj Police Stn King St, Clitheroe, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01rib0002 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: S.W. Sys(Dual Mh) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	501	2	373130 441110
4	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Adj Police Stn , King Street, RIBBLE VALLEY Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: RIB0002 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NE (S)	501	2	373130 441110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Adj Police Stn King St, Clitheroe, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01RIB0002 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Into And/Or Watercourse Environment: Receiving Water: S.W. Sys(Dual Mh) Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	506	2	373130 441105
5	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 1 Effective Date: 21st May 2001 Issued Date: 21st May 2001 Revocation Date: 1st May 2014 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	510	2	372600 441900
6	Discharge Consents Operator: Marstons Plc Property Type: Public Houses & Bars Location: Stp Serving Edisford Bridge Hotel Edisford Bridge, Clitheroe, ., Lancashire, Bb7 3lj Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Npswqd008210 Permit Version: 1 Effective Date: 20th July 2009 Issued Date: 20th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: A Drain Leading To The Ribble Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SE (W)	532	2	372535 441464
7	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 3 Effective Date: 2nd November 2015 Issued Date: 2nd May 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	595	2	372516 441924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 2 Effective Date: 2nd May 2014 Issued Date: 2nd May 2014 Revocation Date: 1st November 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	595	2	372516 441924
8	Discharge Consents Operator: Mr Alan Knowles Property Type: Domestic Property (Multiple) Location: Edisford Bridge Farm, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lj Authority: Environment Agency, North West Region Catchment Area: Ribble Reference: 017190929 Permit Version: 1 Effective Date: 8th February 2007 Issued Date: 8th February 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib River Ribble Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SE (W)	662	2	372398 441470
9	Discharge Consents Operator: Shirebourne Park Limited Property Type: Recreational & Cultural Location: Shirebourne Park Waddington Old Road, Edisford Bridge, Clitheroe, Lancashire, Bb7 3lb Authority: Environment Agency, North West Region Catchment Area: Bashall Brook Reference: 017190698 Permit Version: 3 Effective Date: 2nd November 2015 Issued Date: 2nd May 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bashall Brook (Trib R.Ribble) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	697	2	372544 442135
10	Discharge Consents Operator: Girl Guides Association Property Type: Sewage Disposal Works - Other Location: Girl Guides Association, Clitheroe, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 011a1795 Permit Version: 1 Effective Date: 7th October 1971 Issued Date: Not Supplied Revocation Date: 7th October 1971 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Ribble Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	959	2	373500 442500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Local Authority Pollution Prevention and Controls Name: David Ellis & Ken Ward Location: The Workshop, Thorn Street Garage, CLITHEROE, Lancashire, BB7 1DN Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: Epa/18/96 Dated: 13th March 1996 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A14SE (E)	742	3	373832 441554
	Nearest Surface Water Feature	A13NW (W)	209	-	372839 441702
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Shireford And, Edisford Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 6th July 1998 Incident Reference: CE980830 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	204	2	372900 441795
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ribble Between Shireburn And, Edisford Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 6th July 1998 Incident Reference: CE980867 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	208	2	372900 441800
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Bashall Brook; Tyres Incident Date: 31st December 1991 Incident Reference: 91340122 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	246	2	372800 441700
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: River Ribble; None Pollution Found Incident Date: 8th July 1993 Incident Reference: 93340060 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	287	2	372900 441900
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Tributary Of Ribble Incident Date: 2nd June 1993 Incident Reference: 93340039 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	340	2	372700 441800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: River Ribble; Mains Water Incident Date: 23rd April 1993 Incident Reference: 93340030 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	349	2	372800 441900
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Not Supplied Incident Date: 12th September 1993 Incident Reference: 93340081 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	375	2	372700 441800
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Tributary Ribble; Oil/Grease/Detergent Incident Date: 26th April 1991 Incident Reference: 91340033 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	413	2	372700 441400
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Tributary Ribble; Oil/Grease/Detergent Incident Date: 31st May 1991 Incident Reference: 91340044 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	416	2	372700 441395
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: River Ribble Incident Date: 26th February 1992 Incident Reference: 92340021 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	459	2	372600 441500
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Tributary River Ribble Incident Date: 10th March 1992 Incident Reference: 92340025 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	478	2	372700 441300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Tributary Ribble; Bluish Dye/Detergent Incident Date: 11th February 1993 Incident Reference: 93340012 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	482	2	372700 441295
21	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: River Ribble Incident Date: 20th October 1993 Incident Reference: 93340097 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	555	2	372500 441500
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: River Ribble; None Pollution Found Incident Date: 24th October 1995 Incident Reference: 95430261 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	557	2	372500 441495
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 25th August 1993 Incident Reference: 93340076 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	584	2	373500 441200
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found Incident Date: 27th February 1995 Incident Reference: 95340018 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	648	2	372500 442000
24	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Surface Water Outfall Location: Opposite Sparth House, CLAYTON-LE-MOORS Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Tributary Of Hyndburn Bk; Crude Sewage Incident Date: 16th June 1997 Incident Reference: 97330160 Catchment Area: Calder - Lancs Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	686	2	373400 441000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Other Location: CLITHEROE Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Diesel Incident Date: 30th July 1998 Incident Reference: CE980673 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	740	2	373700 441200
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Natural Note: Not Supplied Incident Date: 14th September 1993 Incident Reference: 93340083 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	916	2	373400 442500
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Cemetery Beck Incident Date: 28th September 1993 Incident Reference: 93340088 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	933	2	373900 442095
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Cemetery Beck Incident Date: 8th September 1993 Incident Reference: 93340078 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	936	2	373900 442100
	River Quality Name: Ribble GQA Grade: River Quality B Reach: Stock Beck To Clitheroe Stw Estimated Distance (km): 19.1 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A13NW (NW)	254	2	372812 441754
	River Quality Name: Bashall Bk GQA Grade: River Quality B Reach: Qsl Bashall Hall To Ribble Estimated Distance (km): 3.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NW (W)	272	2	372767 441662

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	River Quality Chemistry Sampling Points Name: Bashall Brook Reach: Qst Bashall Hall To Ribbie Estimated Distance: 3.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A13NW (NW)	328	2	372752 441799
29	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 27th September 2011 Incident Reference: 926435 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Other Sewage	A18SE (N)	459	2	373195 442089
30	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 23rd January 2014 Incident Reference: 1197274 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A8NE (S)	518	2	373095 441091

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 24th July 2006 Incident Reference: 420315 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A8NW (S)	649	2	373045 440961
31	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 18th November 2013 Incident Reference: 1176935 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A8NW (S)	651	2	373041 440959
31	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 28th April 2010 Incident Reference: 775047 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A8SW (S)	656	2	373040 440954
32	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 9th June 2004 Incident Reference: 242839 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Slurry And Dilute Slurry	A12NE (NW)	661	2	372460 441959
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309033 Permit Version: 100 Location: Mearley Brk Feeding Primrose Lodge At Clitheroe Authority: Environment Agency, North West Region Abstraction: General Agriculture: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Primrose Wrks, Clitheroe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	1081	2	373800 440800
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309033 Permit Version: 100 Location: Mearley Brk Feeding Primrose Lodge At Clitheroe Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Primrose Wrks, Clitheroe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1081	2	373800 440800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309033 Permit Version: 100 Location: Mearley Brk Feeding Primrose Lodge At Clitheroe Authority: Environment Agency, North West Region Abstraction: General Agriculture: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1000 Yearly Rate (m3): 181840 Details: Primrose Wrks, Clitheroe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (SE)	1093	2	374100 441200
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309033 Permit Version: 100 Location: Mearley Brk Feeding Primrose Lodge At Clitheroe Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Primrose Wrks, Clitheroe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1093	2	374100 441200
	Water Abstractions Operator: James Thornber Ltd Licence Number: 2671309025 Permit Version: 100 Location: Mearley Brk At Clitheroe Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 982 Yearly Rate (m3): 227300 Details: Land At Holmes Mill Clitheroe. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th November 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	1153	2	374200 441300
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309032 Permit Version: 100 Location: Pendleton Brk@Clitheroe Feeding The Mill Pond, Primrose Wks Authority: Environment Agency, North West Region Abstraction: General Agriculture: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1000 Yearly Rate (m3): 181840 Details: Land At Primrose Works Clitheroe. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	1291	2	374000 440700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309032 Permit Version: 100 Location: Pendleton Brk@Clitheroe Feeding The Mill Pond, Primrose Wks Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Primrose Works Clitheroe. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1291	2	374000 440700
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309032 Permit Version: 100 Location: Pendleton Brk@Clitheroe Feeding Mill Pond, Primrose Wks Authority: Environment Agency, North West Region Abstraction: General Agriculture: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land At Primrose Works Clitheroe. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	1298	2	373900 440600
	Water Abstractions Operator: Stalwart Dyeing Co Ltd Licence Number: 2671309032 Permit Version: 100 Location: Pendleton Brk@Clitheroe Feeding Mill Pond, Primrose Wks Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Primrose Works Clitheroe. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1298	2	373900 440600
	Water Abstractions Operator: Castle Castings Ltd Licence Number: 2671309002 Permit Version: Not Supplied Location: Mearley Brook, South Bank Of Brook At Works Site, CLITHEROE Authority: Environment Agency, North West Region Abstraction: Industrial Cooling (Miscellaneous) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 9 Yearly Rate (m3): 2228 Details: Additional Purpose: Cooling; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SE (E)	1646	2	374695 442005

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Castle Castings Ltd Licence Number: 2671309001 Permit Version: Not Supplied Location: Mearley Brook, On Works Site, CLITHEROE Authority: Environment Agency, North West Region Abstraction: Industrial Cooling (Miscellaneous) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 36 Yearly Rate (m3): 8910 Details: Additional Purpose: Cooling; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SE (E)	1651	2	374700 442005
	Water Abstractions Operator: R Walker & Son Licence Number: 2671319001 Permit Version: Not Supplied Location: Springs & Catchpits, Riddings Barn, With Gill Knoll & Easthams Wood Authority: Environment Agency, North West Region Abstraction: General Agriculture & Private Water Supply (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Additional Purpose: Domestic - household; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1983	2	371105 441195
	Water Abstractions Operator: David George Barnes Licence Number: 2671309019 Permit Version: 100 Location: Spring Fed Storage Tank, At Withgill Knoll, Higher Hodder Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Land/Premises, Withgill Farm, Higher Hodder Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1987	2	371100 441200
	Water Abstractions Operator: R Walker & Son Licence Number: 2671318010 Permit Version: Not Supplied Location: Springs & Catchpits, Riddings Barn, With Gill Knoll & Easthams Wood Authority: Environment Agency, North West Region Abstraction: General Agriculture & Private Water Supply (Domestic) Abstraction Type: Not Supplied Source: Spring Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Additional Purpose: Domestic - household; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1988	2	371100 441195
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13NW (NE)	0	2	373066 441632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13NW (NE)	0	2	373066 441632
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NE)	0	4	373066 441632
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NW (NE)	0	4	373066 441632
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	198	2	372848 441695
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13NW (W)	243	2	372815 441734
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	199	2	372848 441695
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
33	Detailed River Network Lines River Type: Primary River River Name: River Ribble Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER RIBBLE Name: Water Course: RIBB Reference:	A13NW (W)	222	2	372824 441699
34	Detailed River Network Lines River Type: Primary River River Name: Bashall Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (W)	260	2	372779 441615
35	Detailed River Network Lines River Type: Primary River River Name: River Ribble Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER RIBBLE Name: Water Course: RIBB Reference:	A13SW (W)	260	2	372779 441615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (SW)	376	2	372804 441344
37	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	472	2	372760 441257
38	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NE (N)	245	2	373141 441882
39	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NE (E)	252	2	373323 441729
40	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A14NW (E)	318	2	373410 441656
41	Detailed River Network Offline Drainage River Type: Secondary River Hydrographic Area: D011	A18SW (N)	398	2	372999 442049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Historical Landfill Sites Licence Holder: Not Supplied Location: Low Moor, Clitheroe, Lancashire Name: Ashworths Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL07240 First Input Date: 31st December 1945 Last Input Date: 31st December 1945 Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0195 BGS Ref: Not Supplied Other Ref: K1/03/045	A13NW (N)	233	2	372972 441874
43	Historical Landfill Sites Licence Holder: Not Supplied Location: Off Kemple View, Near Clitheroe, Lancashire Name: Stalwart Dying Company Limited Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL07099 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Unknown Material Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0186 BGS Ref: Not Supplied Other Ref: K1/03/034	A9NW (SE)	824	2	373651 441012
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	3	373066 441632
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	373066 441632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Viséan (Carboniferous Limestone Series)	A13NW (NE)	0	4	373066 441632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NE)	0	4	373066 441632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (W)	38	4	373000 441632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	142	4	372965 441769
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (N)	148	4	373000 441795
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	213	4	372847 441733
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	213	4	372852 441742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	221	4	372821 441682
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	232	4	372827 441736
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	320	4	372760 441798
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	320	4	372767 441809
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	346	4	373066 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	349	4	373000 442000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	361	4	372944 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (NE)	391	4	373231 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (W)	391	4	372660 441739
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (NW)	392	4	372863 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (NW)	414	4	372821 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	540	4	373000 442192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	609	4	373066 441000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (SW)	609	4	372516 441324
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	614	4	373000 441000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SE (NW)	638	4	372512 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SE (NW)	708	4	372430 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SW (NE)	709	4	373490 442213

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NE (SW)	718	4	372702 441000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	762	4	373000 442415
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NE (SW)	790	4	372573 441000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	858	4	373281 442480
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	899	4	373233 442534
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NE (E)	907	4	374000 441632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	934	4	373064 442588
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A18NE (N)	964	4	373237 442600
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	974	4	372471 442439
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SE (E)	981	4	374000 442000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	982	4	372069 441795
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	987	4	373000 442641

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	992	4	372645 442561
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	996	4	373882 441014
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	997	4	373270 442626
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	999	4	373875 441000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	221	4	372821 441682
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	221	4	372821 441682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	4	372965 441769
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	221	4	372821 441682
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	213	4	372852 441742
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	4	373066 441632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Contemporary Trade Directory Entries Name: P R Knowles Location: 22, Fairfield Drive, Clitheroe, Lancashire, BB7 2PE Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	161	-	373076 441448
44	Contemporary Trade Directory Entries Name: Iron Xpress Location: 15, Fairfield Drive, Clitheroe, Lancashire, BB7 2PE Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	188	-	373101 441422
45	Contemporary Trade Directory Entries Name: Vantage Clitheroe Location: Edisford Road, Clitheroe, Lancashire, BB7 2LT Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	205	-	373292 441573
45	Contemporary Trade Directory Entries Name: Vantage Clitheroe Location: Edisford Road, Clitheroe, Lancashire, BB7 2LT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	205	-	373292 441573
45	Contemporary Trade Directory Entries Name: Perrys Location: Edisford Road, Clitheroe, Lancashire, BB7 2LT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	205	-	373292 441573
46	Contemporary Trade Directory Entries Name: B & H Transport Ltd Location: 4, Bleasdale Avenue, Clitheroe, Lancashire, BB7 2PF Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	220	-	373180 441412
47	Contemporary Trade Directory Entries Name: Hargreaves & Coates Ltd Location: Low Moor Top Farm, Edisford Road, Clitheroe, Lancashire, BB7 2LT Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	253	-	373346 441604
48	Contemporary Trade Directory Entries Name: Pressed To Impress Location: 28, Seedall Avenue, Clitheroe, Lancashire, BB7 2LR Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	467	-	373538 441483
49	Contemporary Trade Directory Entries Name: Border Blinds Ltd Location: Old Co-operative Building, Henthorn Road, Clitheroe, Lancashire, BB7 2LD Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	652	-	373723 441456
49	Contemporary Trade Directory Entries Name: Border Blinds Ltd Location: Old Co-operative Building, Henthorn Road, Clitheroe, Lancashire, BB7 2LD Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	652	-	373723 441456
50	Contemporary Trade Directory Entries Name: M & W Spedding Location: Henthorn Road, Clitheroe, Lancashire, BB7 2QF Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	679	-	373184 440938
50	Contemporary Trade Directory Entries Name: Sita (Lancashire) Ltd Location: Henthorn Cottage, Henthorn Rd, Clitheroe, Lancashire, BB7 2QF Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	685	-	373212 440936

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Contemporary Trade Directory Entries Name: Rufus Carr Ltd Location: Bawdlands Garage, Bawdlands, Clitheroe, Lancashire, BB7 2LA Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	736	-	373829 441626
52	Contemporary Trade Directory Entries Name: David Ellis Location: Thorn St, Clitheroe, Lancashire, BB7 2LJ Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	747	-	373835 441536
53	Contemporary Trade Directory Entries Name: C Whitehead Location: 17, Kemple View, Clitheroe, Lancashire, BB7 2QB Classification: Chemicals & Allied Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	775	-	373644 441075
54	Contemporary Trade Directory Entries Name: Inside Track Autos Location: Victoria Street Garage, Victoria Street, Clitheroe, Lancashire, BB7 1BL Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	812	-	373761 441162
55	Contemporary Trade Directory Entries Name: Keighley Engineering Services Ltd Location: Sawmills, Mitchell Street, Clitheroe, Lancashire, BB7 1DF Classification: Engineering Machine Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (SE)	815	-	373844 441309
56	Contemporary Trade Directory Entries Name: Pendle Print Ltd Location: 2, Franklin Street, Clitheroe, Lancashire, BB7 1DQ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	823	-	373904 441486
56	Contemporary Trade Directory Entries Name: D J P Domestics Location: 2, Franklin Street, Clitheroe, Lancashire, BB7 1DQ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	823	-	373904 441486
57	Contemporary Trade Directory Entries Name: Diesel Doctor Location: Unit 3, Mitchell St, Clitheroe, Lancashire, BB7 1DF Classification: Diesel Engine Equipment & Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	843	-	373895 441366
58	Contemporary Trade Directory Entries Name: Domestpest Location: 27, West View, Clitheroe, Lancashire, BB7 1DG Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	918	-	373967 441344
59	Contemporary Trade Directory Entries Name: Snow White Location: 46, Eshton Terrace, Clitheroe, Lancashire, BB7 1BQ Classification: Laundries & Launderettes Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	922	-	373999 441451
59	Contemporary Trade Directory Entries Name: Lancashire Bulk Location: 46, Eshton Terrace, Clitheroe, Lancashire, BB7 1BQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	922	-	373999 441451
59	Contemporary Trade Directory Entries Name: Silverthorn (Uk) Ltd Location: 46, Eshton Terrace, Clitheroe, Lancashire, BB7 1BQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	922	-	373999 441451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	Contemporary Trade Directory Entries Name: T & J Haulage Location: Swan Meadow, Clitheroe, Lancashire, BB7 2BS Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	930	-	373933 442026
61	Contemporary Trade Directory Entries Name: Hull Location: Henthorn Rd, Clitheroe, Lancashire, BB7 3BY Classification: Plastics - Coating Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	956	-	372923 440666
62	Contemporary Trade Directory Entries Name: Castle Stained Glass Location: 1, Victoria Street, Clitheroe, Lancashire, BB7 1BL Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	971	-	373921 441118
63	Contemporary Trade Directory Entries Name: John Schofield Location: 5, Wilson Street, Clitheroe, Lancashire, BB7 1BH Classification: French Polishing Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	975	-	374029 441348
64	Fuel Station Entries Name: Vantage-Network Q Location: Edisford Road, CLITHEROE, Lancashire, BB7 2LT Brand: OBSOLETE Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A13NE (E)	221	-	373307 441682
65	Fuel Station Entries Name: Low Moor Garage Location: Edisford Road, CLITHEROE, Lancashire, BB7 2LT Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A14NW (E)	567	-	373638 441784

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Pendle Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	April 2014 July 2013 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	January 2015	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2015	Quarterly
Local Authority Integrated Pollution Prevention And Control Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department	June 2012 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department	June 2014 October 2014 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department	June 2014 October 2014 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North West Region	January 2015	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	January 2015 January 2015	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	October 2014	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	January 2015	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

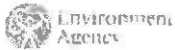
Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2015	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2014	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2014	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2014	Quarterly
Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	February 2015 February 2015	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	August 2014 August 2014	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	November 2014 November 2014	Quarterly Quarterly
Local Authority Landfill Coverage Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Pendle Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	April 2003 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2015	Bi-Annually
Explosive Sites Health and Safety Executive	October 2014	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Ribble Valley Borough Council Pendle Borough Council - Planning Hyndburn Borough Council - Planning Lancashire County Council	January 2015 November 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Ribble Valley Borough Council Pendle Borough Council - Planning Hyndburn Borough Council - Planning Lancashire County Council	January 2015 November 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2014	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribbles Valley Borough Council	February 2015 February 2015 February 2015	As notified As notified As notified
Areas of Unadopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribbles Valley Borough Council	February 2015 February 2015 February 2015	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	February 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2014	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2014	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	September 2014	Bi-Annually
National Parks Natural England	February 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest Natural England	September 2014	Bi-Annually
Special Areas of Conservation Natural England	March 2014	Bi-Annually
Special Protection Areas Natural England	September 2014	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	Ribble Valley Borough Council - Environmental Health Department Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
4	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	Natural England Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Envirocheck[®] Report:

BGS Boreholes Datasheet

Order Details:

Order Number:

64967356_1_1

Customer Reference:

LKC 15 1072

National Grid Reference:

373070, 441630

Slice:

A

Site Area (Ha):

0.11

Borehole Search Buffer (m):

1000

Site Details:

St Paul's Terrace

Clitheroe

BB7 2LS

Client Details:

L Consult

LK Consult Ltd

Bury Business Centre

Kay Street

Bury

Lancashire

BL9 6BU

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	None	None	None	2

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Report Version v49.0

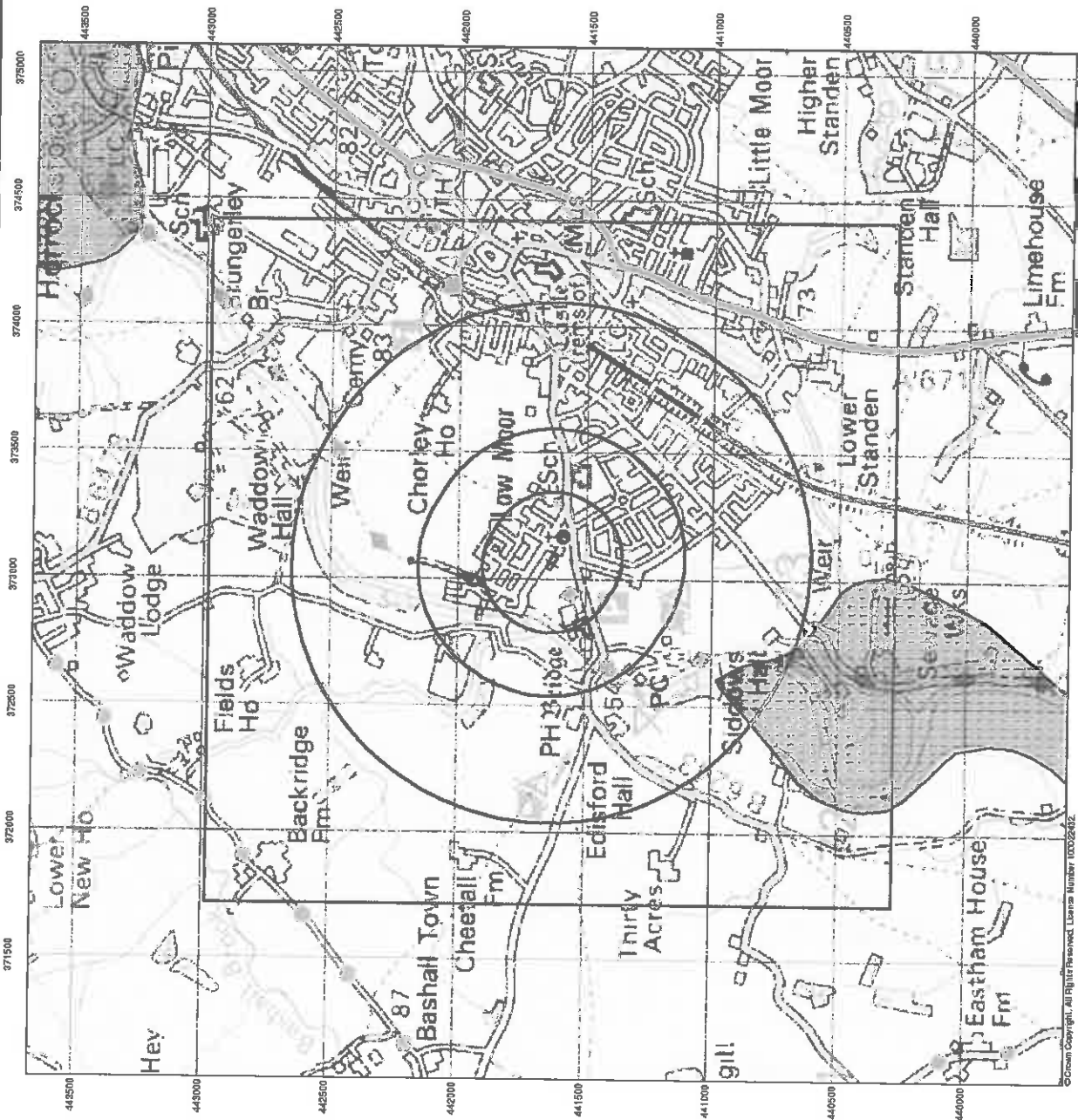
BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	BGS Boreholes BGS Reference: Sd74sw26 Drilled Length (m): 63 Borehole Name: Shireburn Caravan Site, Clitheroe Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/14772525/	A17SE (NW)	560	4	372600 441990
67	BGS Boreholes BGS Reference: Sd74sw21 Drilled Length (m): Not Supplied Borehole Name: Waddow Mill Race Clitheroe 1 Link to Borehole Scan: Not Available	A18NE (N)	876	4	373310 442490

Data Currency and Contact Details

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	January 2015	Quarterly

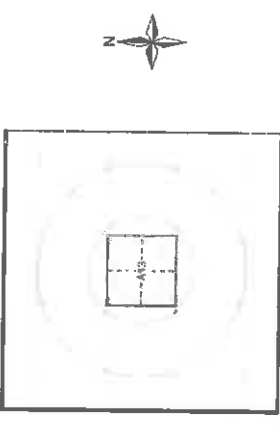
Contact Details	Contact Logo
4 British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
- Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk	 LANDMARK[®] Information Group



Groundwater Vulnerability

- General**
- Specified Site
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Agency and Hydrological**
- Geological Classes**
- Major Aquifer (Highly Permeable)
 - Minor Aquifer (Varily Permeable)
 - Non Aquifer (Negligibly Permeable)
 - Water or Sea
 - Drift Depth
- Soil Classes**
- High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low
 - High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low

Site Sensitivity Context Map - Slice A



Order Details

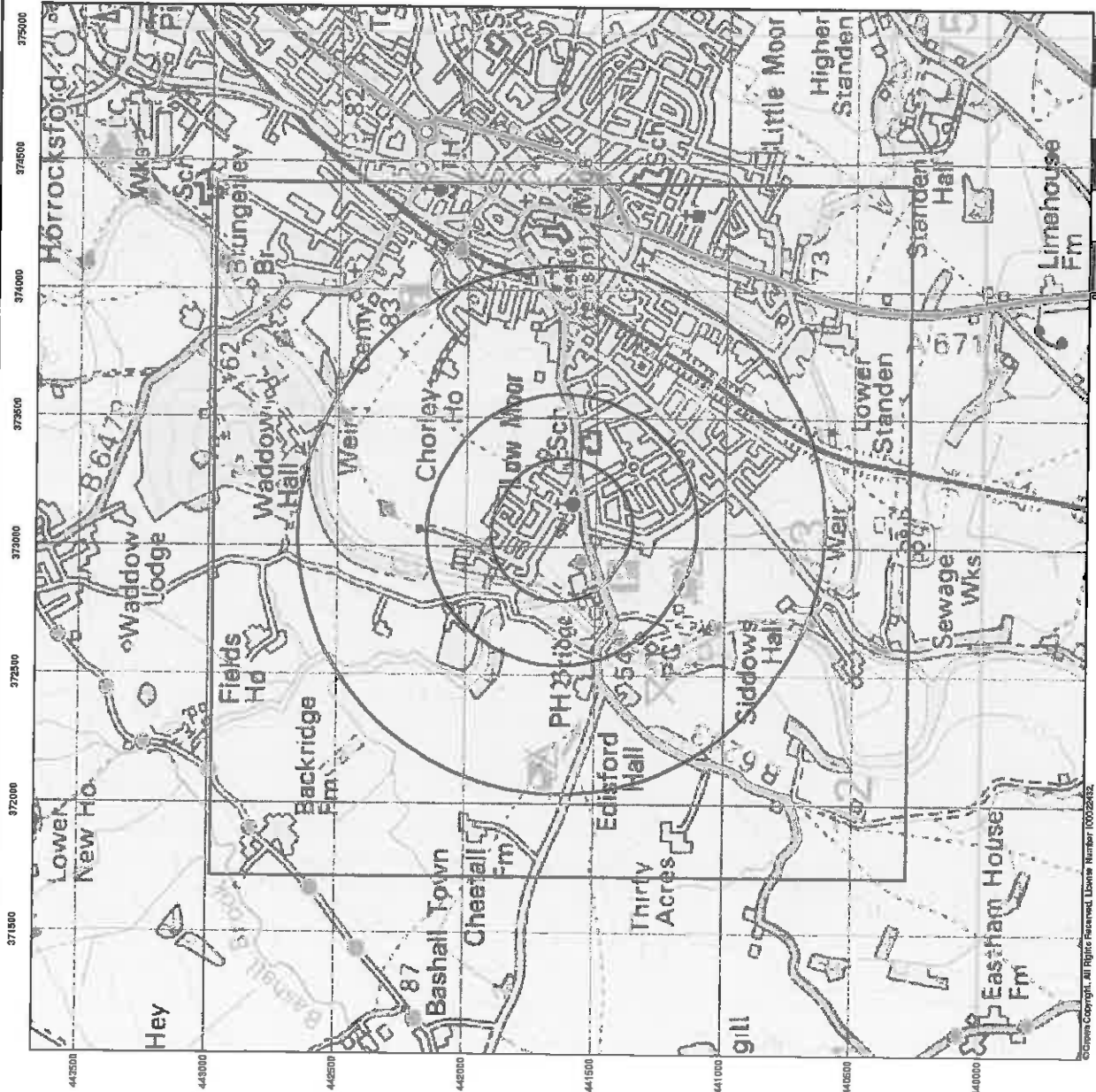
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 Site Area (H): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



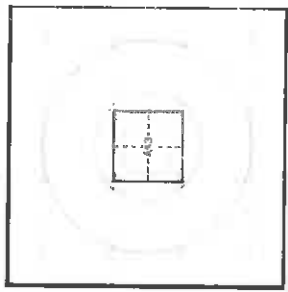
Tel: 0564 844 0000
 Fax: 0564 844 8901
 Web: www.landmark.co.uk



Landmark CONSULT LIMITED
Bedrock Aquifer Designation

- General**
- Specified Site
 - Specified Buffer(s)
 - Map ID
 - Buffer Reference Point
- Agency and Hydrological**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown
- Geological Classes**

Site Sensitivity Context Map - Slice A



Order Details

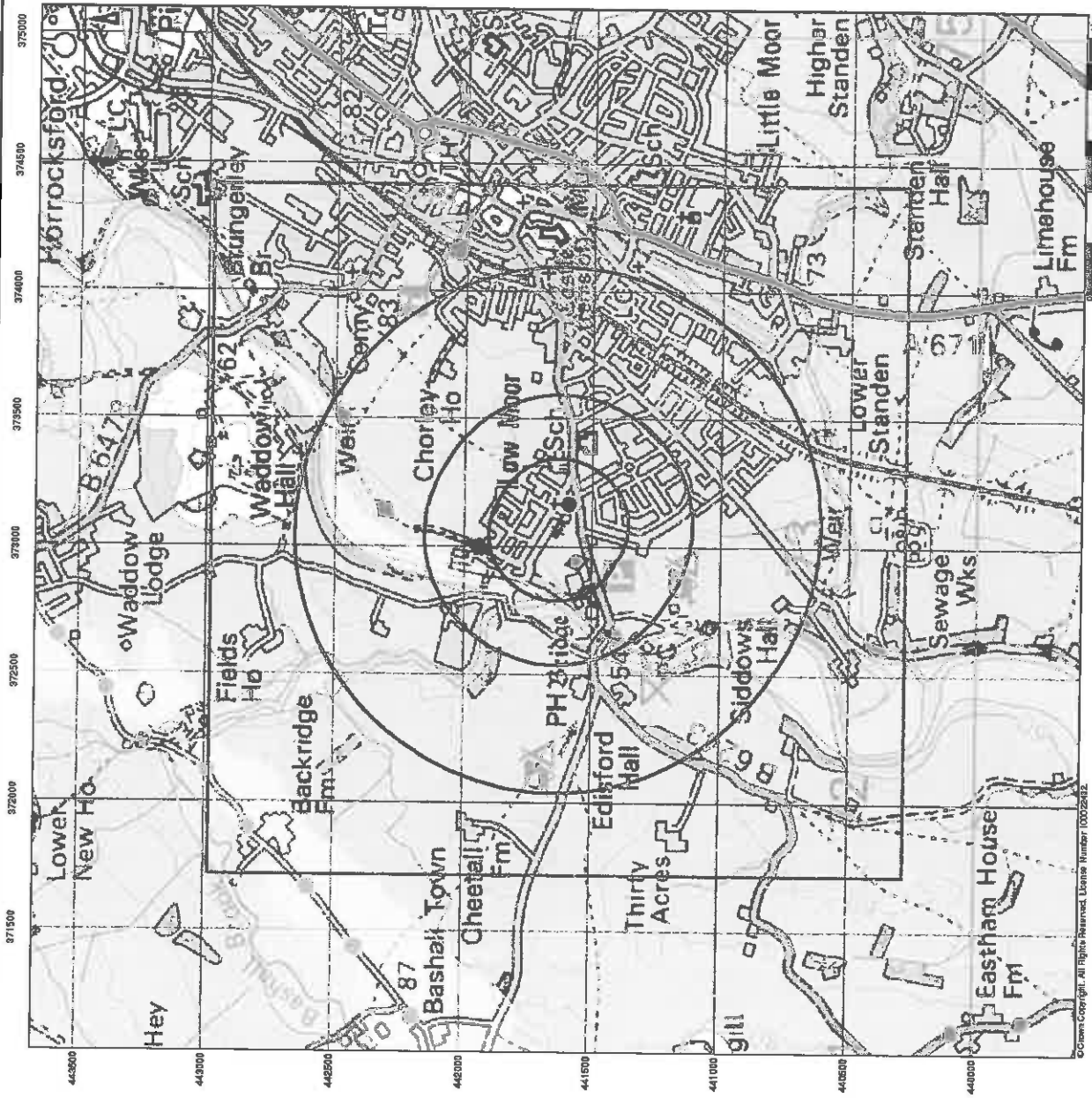
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 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



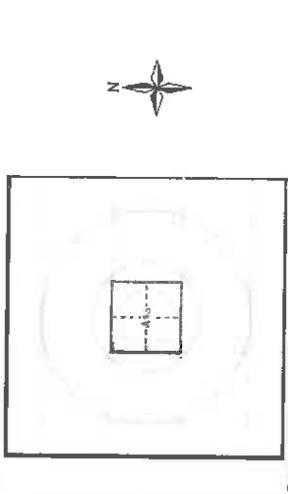
Tel: 0844 644 8802
 Fax: 0844 644 8803
 Web: www.landmark.co.uk



LK CONSULTANTS
Superficial Aquifer Designation

- General**
- Specified Site
 - Slice
 - Specified Buffer(s)
 - Map ID
 - ✕ Bearing Reference Point
- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown

Site Sensitivity Context Map - Slice A



Order Details

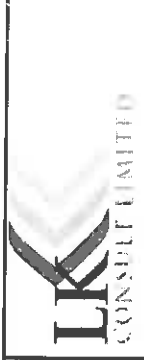
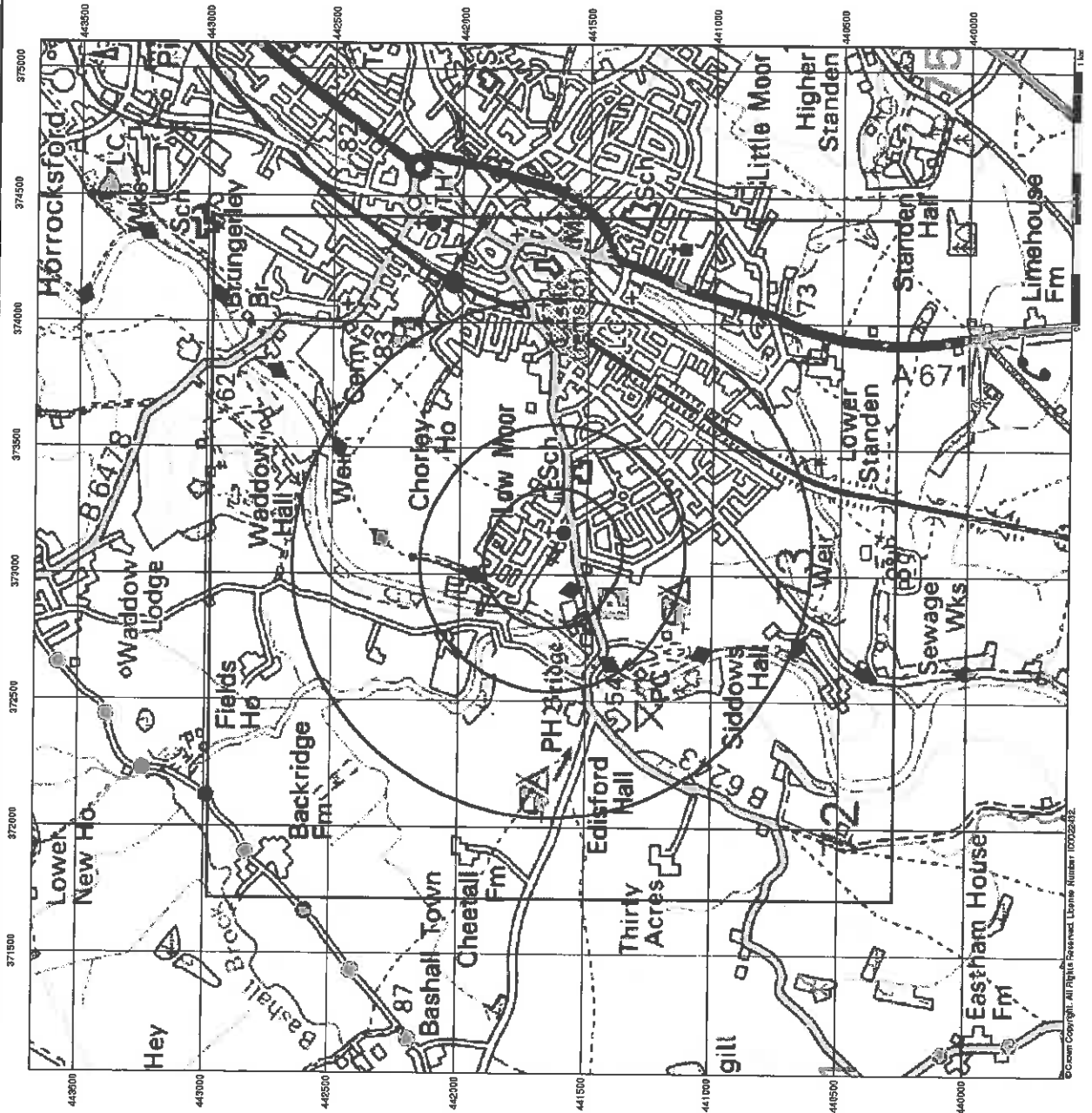
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 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



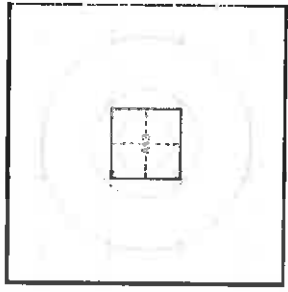
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 Date: 02-Mar-2015
 Web: www.earthbook.co.uk



Source Protection Zones

- General**
- Specified Site
 - Site
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Agency and Hydrological**
- Inner zone (Zone 1)
 - Inner zone - subsurface activity only (Zone 1c)
 - Outer zone (Zone 2)
 - Outer zone - subsurface activity only (Zone 2c)
 - Total catchment (Zone 3)
 - Total catchment - subsurface activity only (Zone 3c)
 - Special Interest (Zone 4)
 - Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

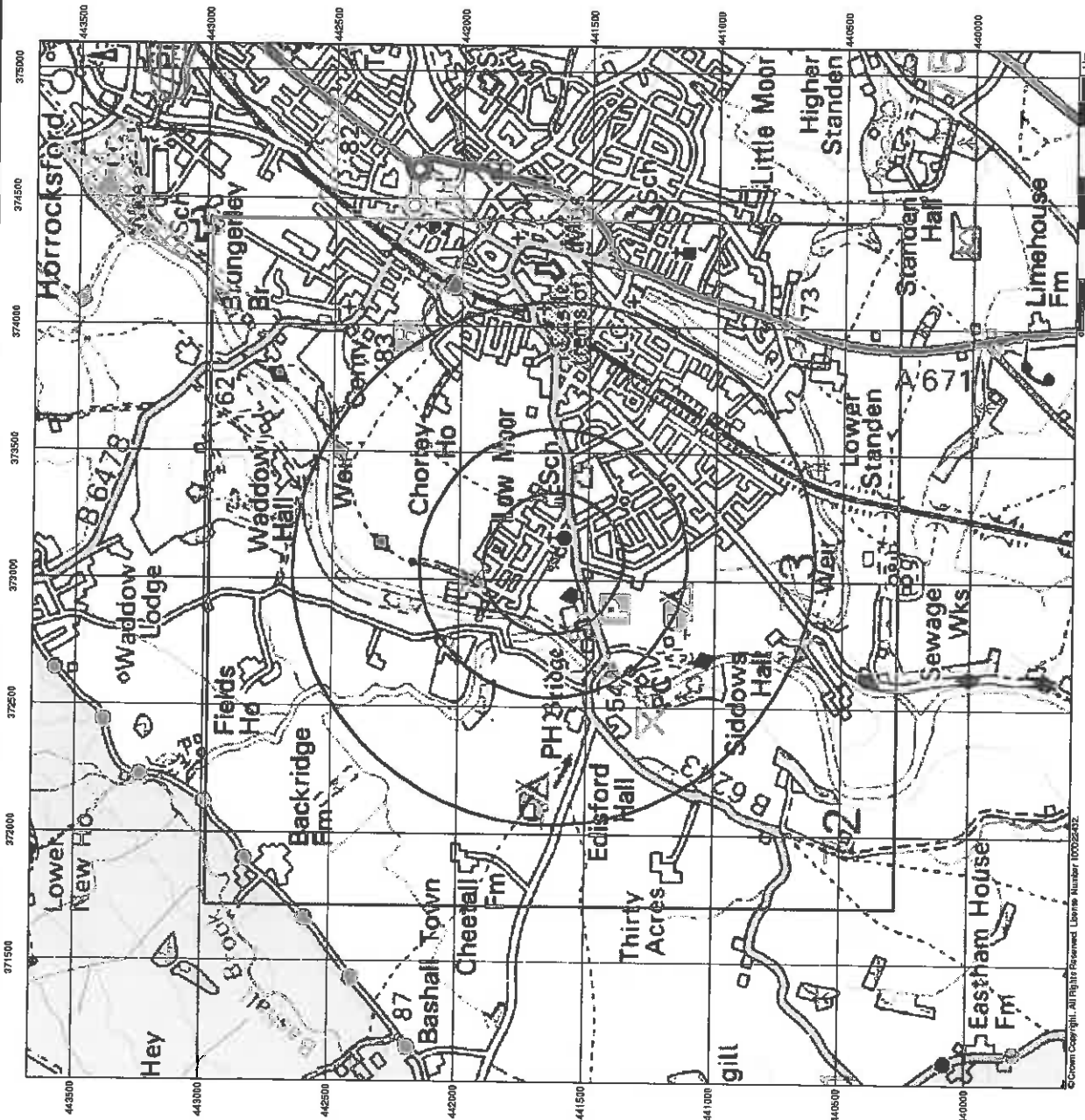
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 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

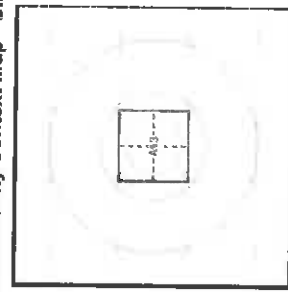


Tel: 0564 844 8802
 Fax: 0564 844 8803
 Web: www.landmark.co.uk



- General**
- Specified Site
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Sensitive Land Uses**
- Area of Adopted Green Belt
 - Area of Unadopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Mainland Nature Reserve
 - National Nature Reserve
 - National Park
 - Nitrate Sensitive Area
 - Nitrate Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 64967356 1.1
 Customer Ref: LKC 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

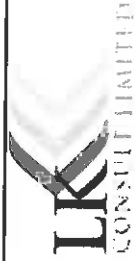
Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	HMGDD	Hummocky (Moundy) Glacial Deposits, Devensian	Diamicton	Devensian - Devensian
	GLDYO	Glaciolacustrine Deposits, Devensian	Clay and Silt	Devensian - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PRMT	Permian Rocks and Triassic Rocks (Undifferentiated)	Sandstone and Mudstone	Triassic - Permian
	CHL	Chalburn Limestone Formation	Limestone	Chadian - Courcayan
	CLHOM	Ciltheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated)	Mudstone	Holkerian - Chadian
	CLLK	Ciltheroe Limestone Formation (Knoll-Reef)	Limestone	Chadian - Chadian
		Faults		



Geology 1:50,000 Maps

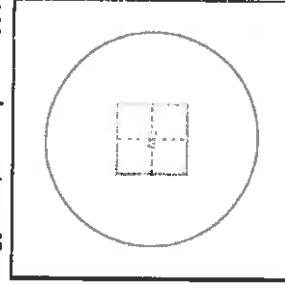
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landscape deposits, superficial geology and soils (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Name:	Ciltheroe
Map Date:	1975
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Land Use:	Not Supplied
Landfill:	Not Supplied
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

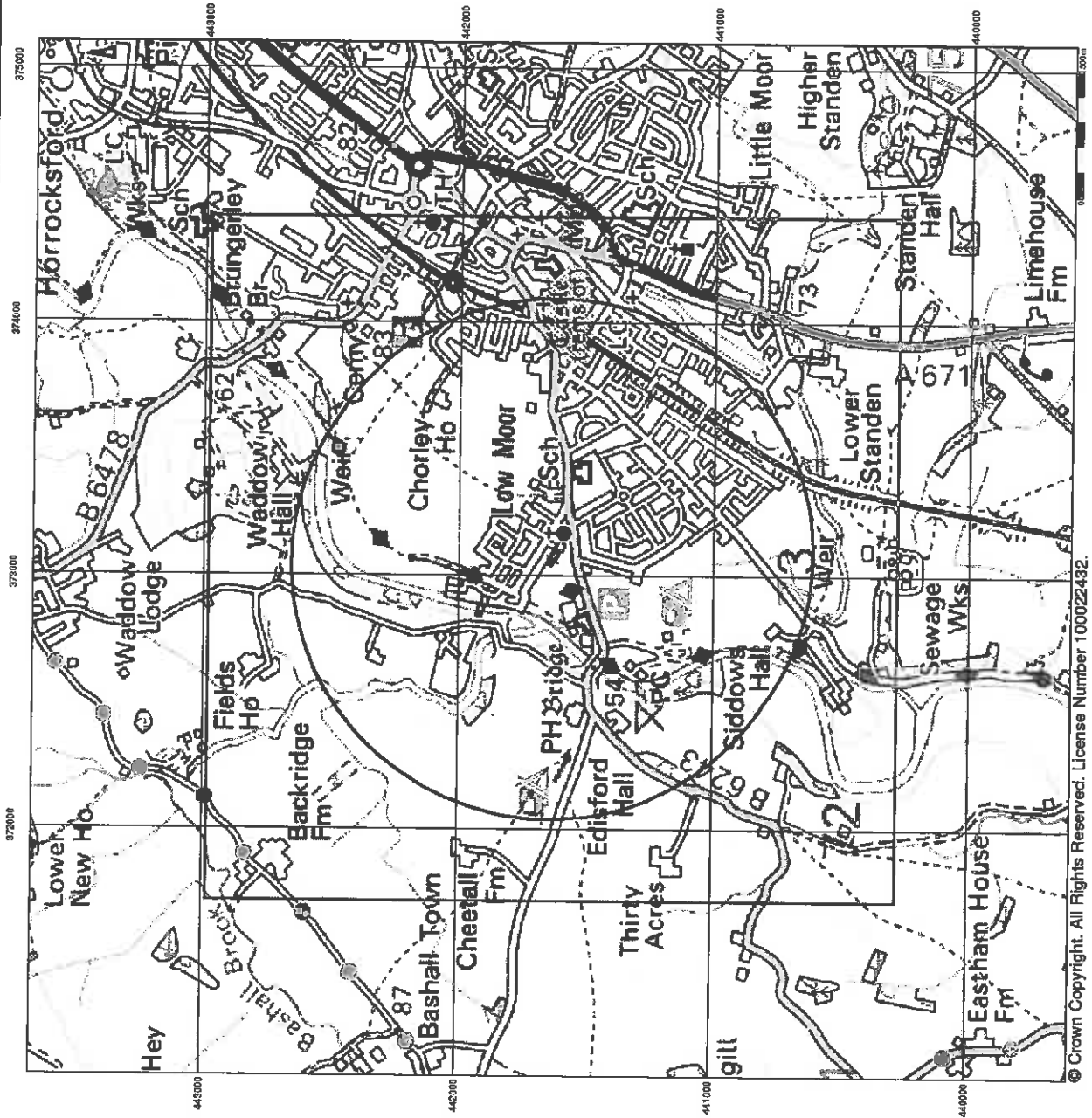
Order Number: 64987356_1_1
 Customer Reference: LKC 15 1072
 National Grid Reference: 373070, 441630
 Sheet: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details:

St Paul's Terrace, Ciltheroe, BB7 2LS



Tel: 0544 544 0802
 Fax: 0544 544 0801
 Web: www.landmark.co.uk



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Artificial Ground and Landslip

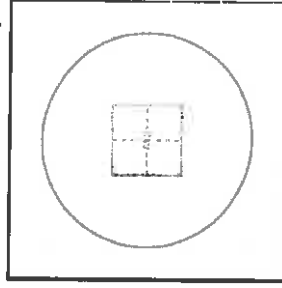
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes tounded strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 64967356 1.1
 Customer Reference: LKC 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (he): 0.11
 Search Buffer (m): 1000

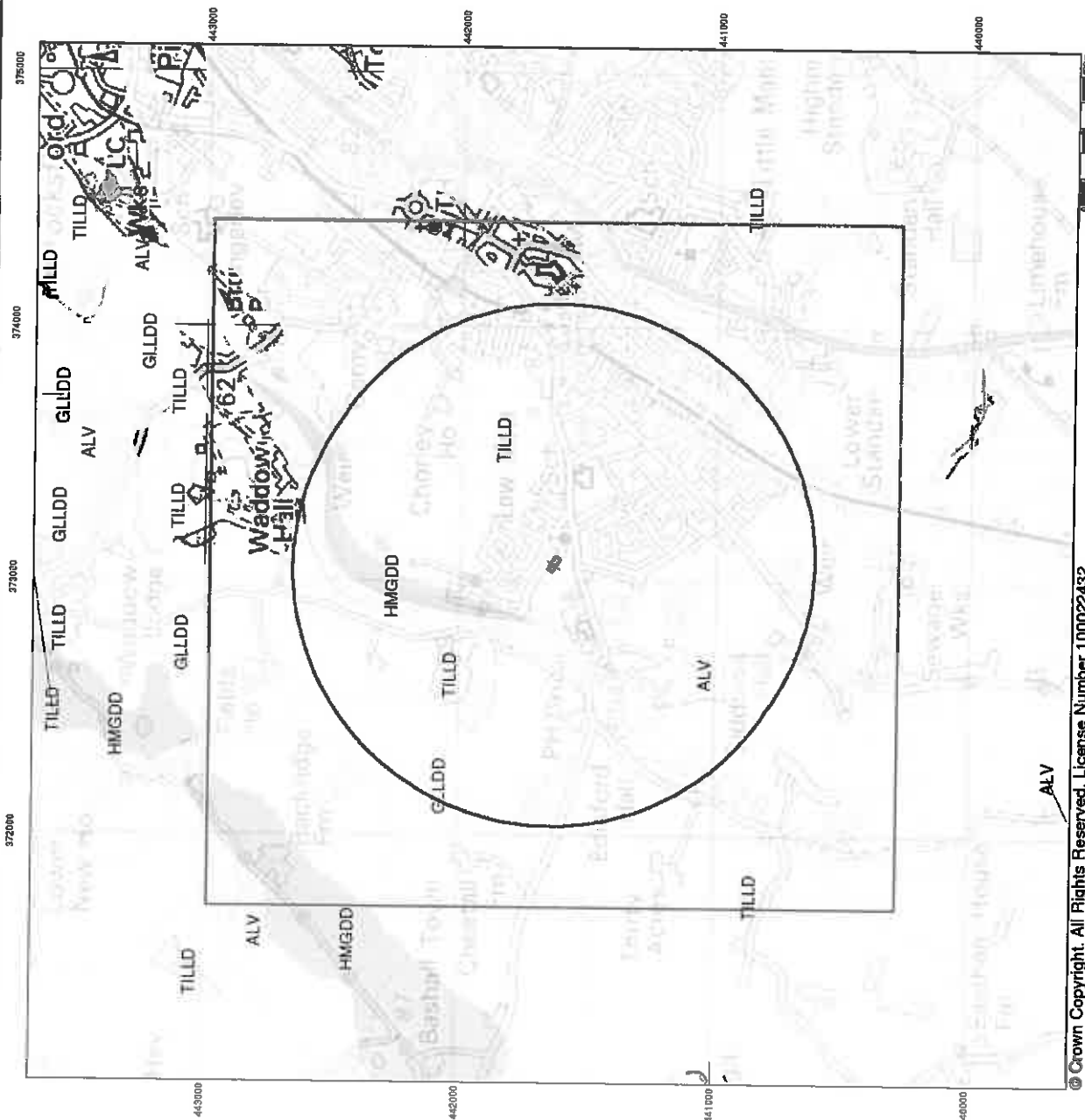
Site Details:

St Paul's Terrace, Clitheroe, BB7 2LS



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 Fax: 0844 644 0002
 Web: www.landmark.co.uk

v15.0 02-Mar-2015



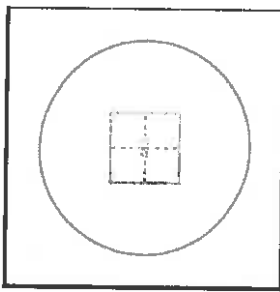
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

Order Number: 64987356 1.1
 Customer: LKC 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details:

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0544 844 8002
 Fax: 0544 844 8003
 Web: www.landmark.co.uk



Bedrock and Faults

Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsium bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

**Order Details:**

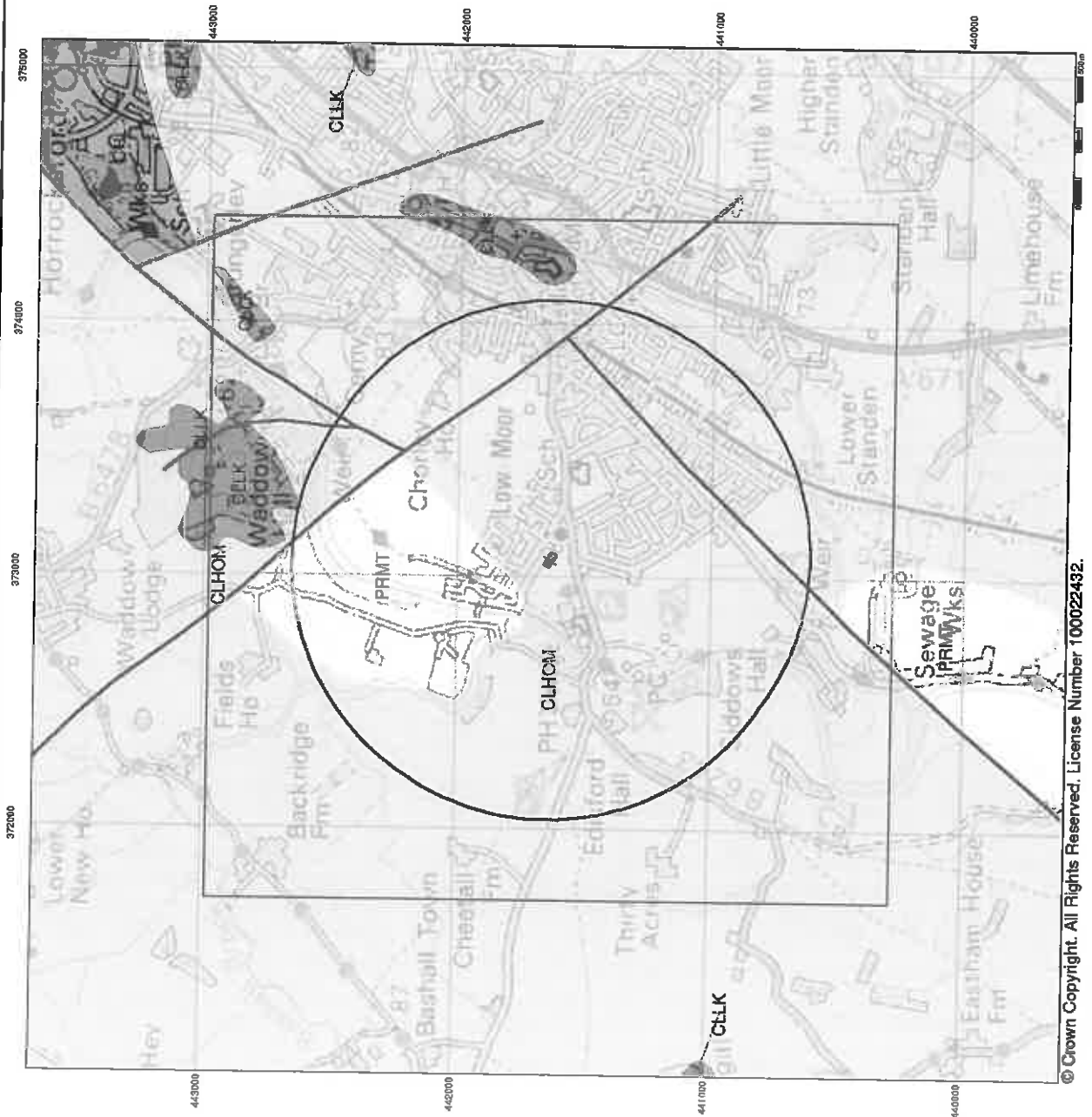
Order Number: 64987356 1 1
Customer Reference: LKC 15 1072
National Grid Reference: 373070, 441630
Slices: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

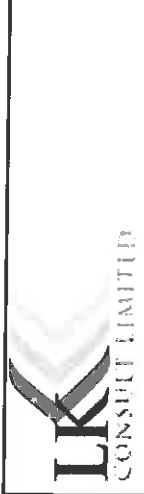
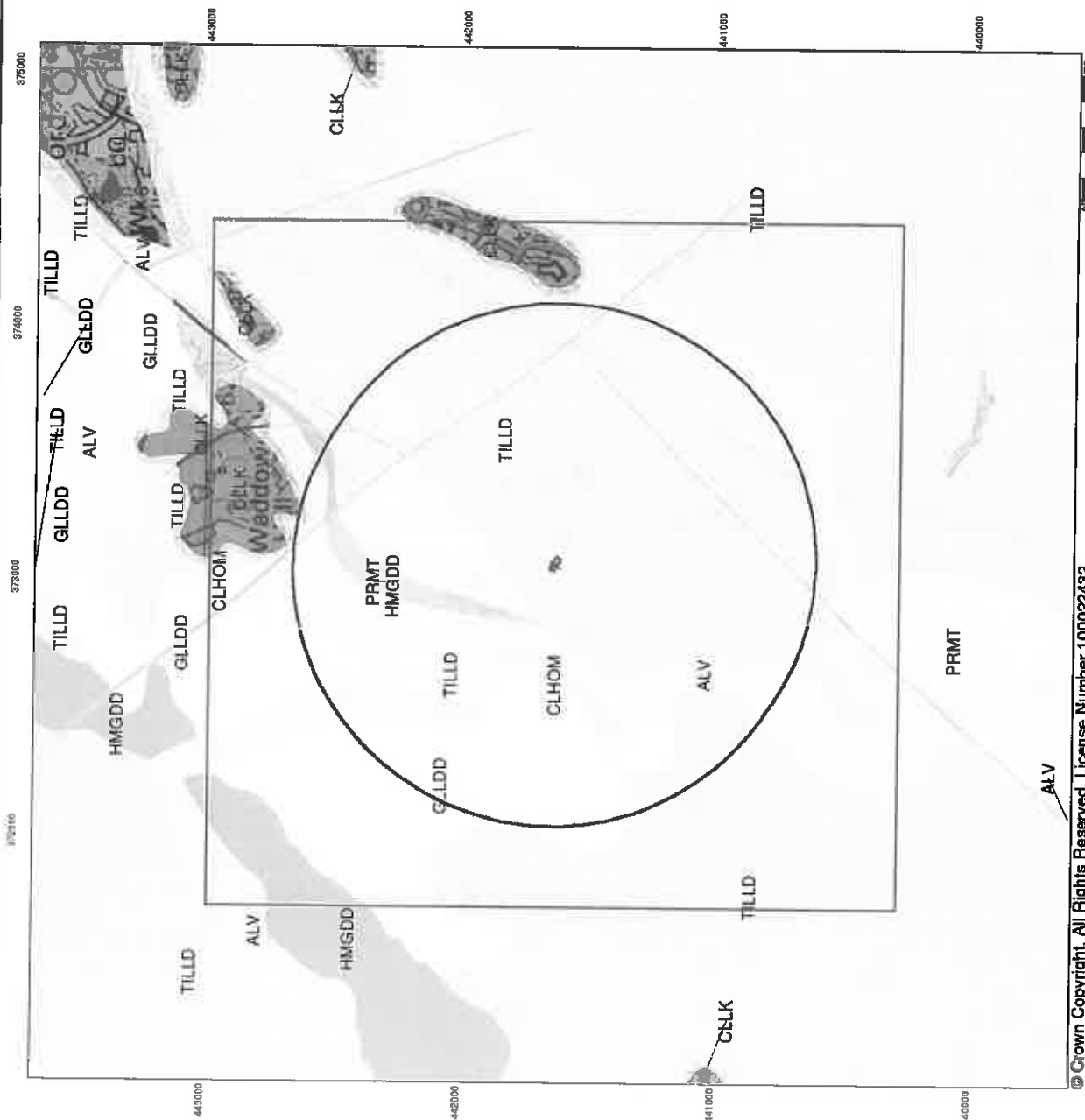
Site Details:

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 8952
Fax: 0844 844 8961
Web: www.enrivedcheck.co.uk





Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

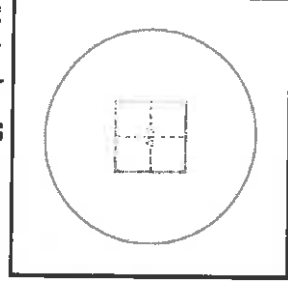
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 64987356 1.1
Customer Reference: LK 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details:

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 644 8809
Web: www.landmark.co.uk

General

○ Specified Buffer(s)
○ Source of Type & Location

X Bearing Reference Point Map ID

Agency and Hydrological

● Contaminated Land Register Entry or Notice
● Contaminated Land Register Entry or Notice

Waste

▼ BOS Recycled Landfill Site (Exclusion)
▼ BOS Recycled Landfill Site

▲ EA Hazardous Landfill (Exclusion)

▲ EA Hazardous Landfill (Exclusion)

▲ EA Hazardous Landfill (Exclusion)

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Geological

▲ BOS Recycled Landfill Site

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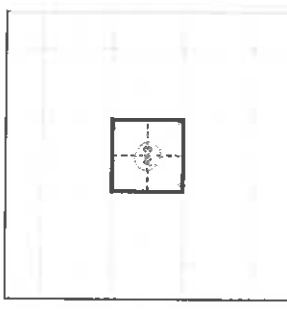
★ Customary Trade Discretion Entry

★ Customary Trade Discretion Entry

★ Customary Trade Discretion Entry

★ Customary Trade Discretion Entry

Site Sensitivity Map - Segment A13



Order Details

Order Number: 64967356 1.1

Customer Ref: LKC 15 1072

National Grid Reference: 373070, 441630

Site: A

Site Area (Ha): 0.11

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



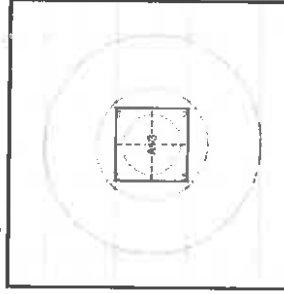
General

- Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- ▨ Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

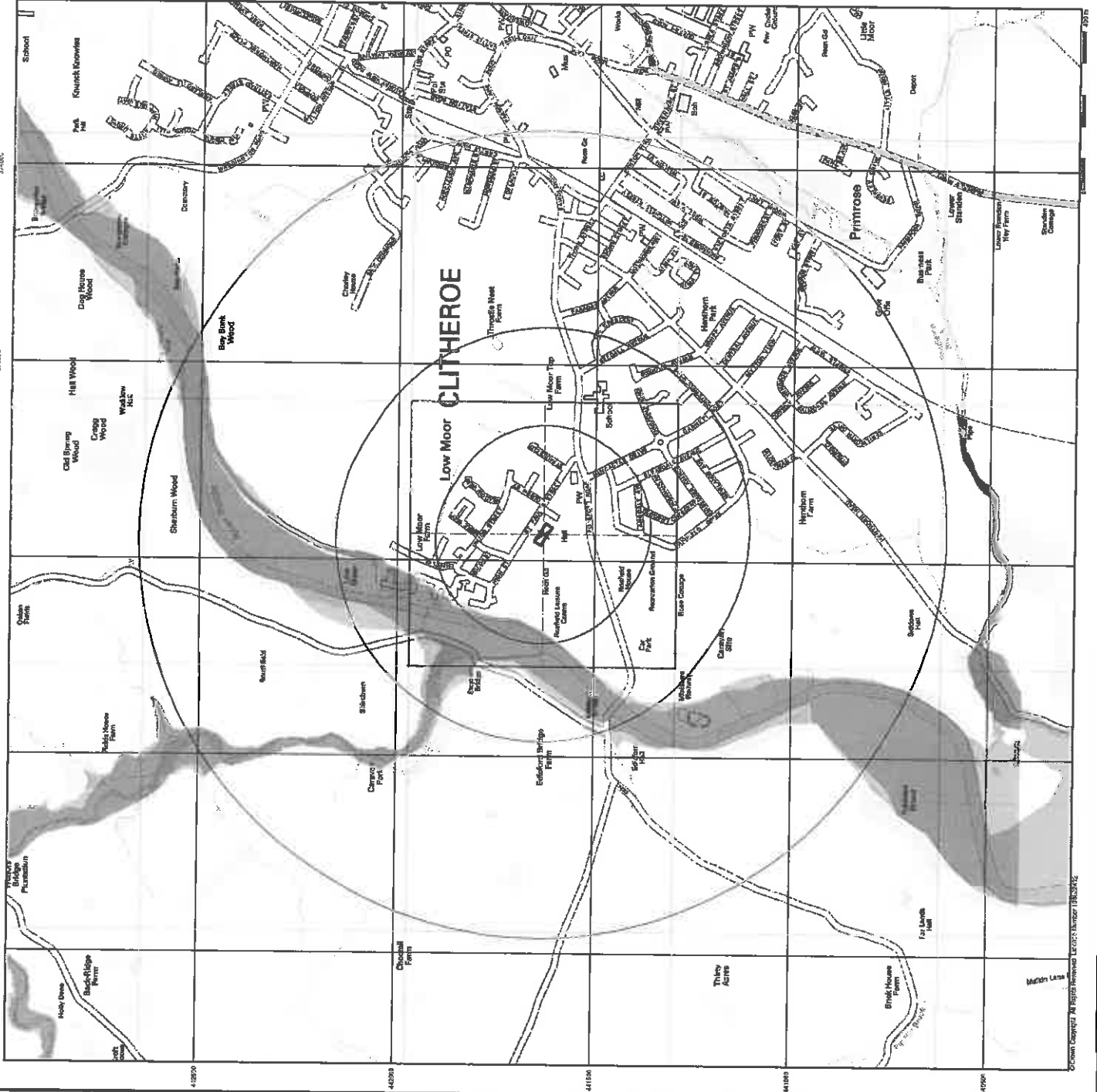


Order Details

Order Number: 64967356, 1, 1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS





© 2001, Sarcosid S.A.

- ☐ Specified Bufile(s)
☒ Bearing Reference Point
☐ Map ID
☐ Several of Type at Location

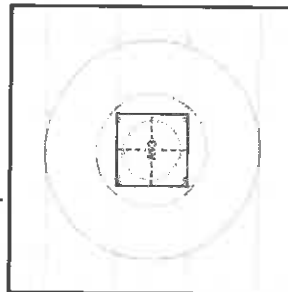
Agency and Hydrological (Boreholes)

-  SCS Borehole Depth 0 - 10m
 SCS Borehole Depth 10 - 30m
 SCS Borehole Depth 30m +
 Confidential
 Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number: 64967356 1_1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



Tel: 0844 844 0952
Fax: 0844 844 9951
Web: www.environmentcheck.co.uk

General

- Specified Site
- Specified Buffer(0)
- △ Bearing Reference Point
- Map ID

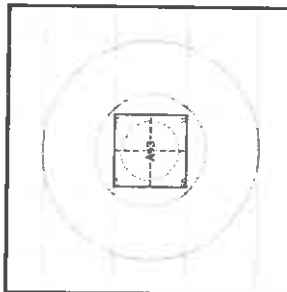
Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (Inferred)
- Underground River (Local knowledge)
- Downstream of High Water Mark
- Downstream of Sward Extension
- Not assigned River feature

Contours (Height in metres)

- Standard Contour
- Master Contour
- Spot Height
- Mean Low Water
- Mean High Water

EANRW Detailed River Network Map - Slice A

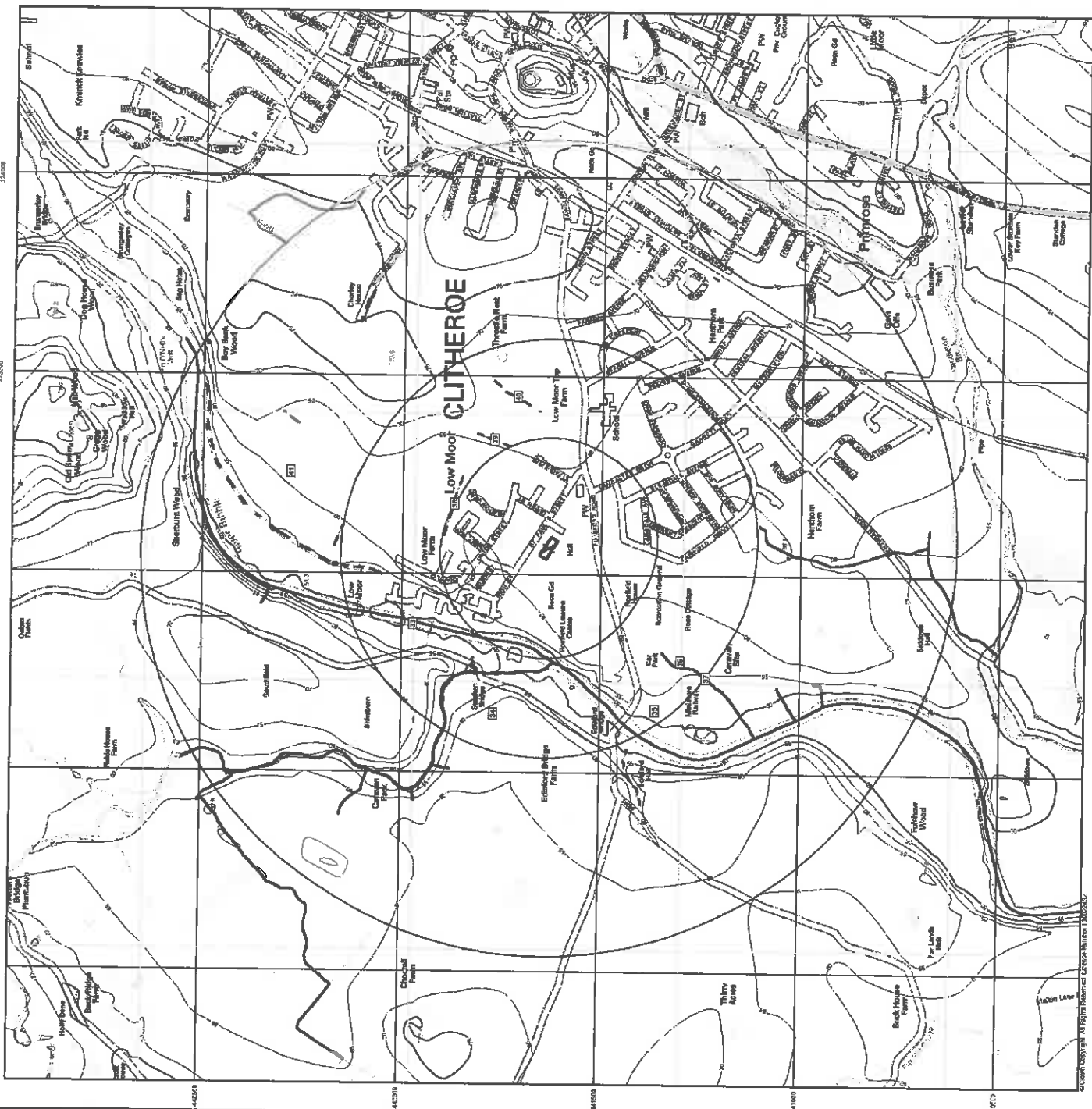


Order Details

Order Number: 64967358 1.1
Customer Ref: LK 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



General

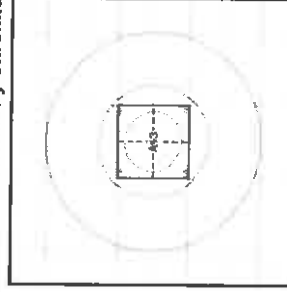
○ Sample site ○ Section Buffer(s) X Buffer Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 64967356 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS

General

○ Specified Site
○ Specified Buffer(s)

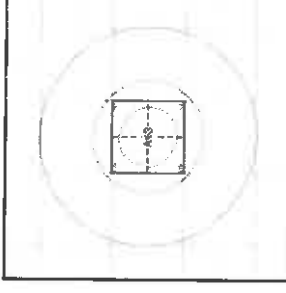
X Existing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

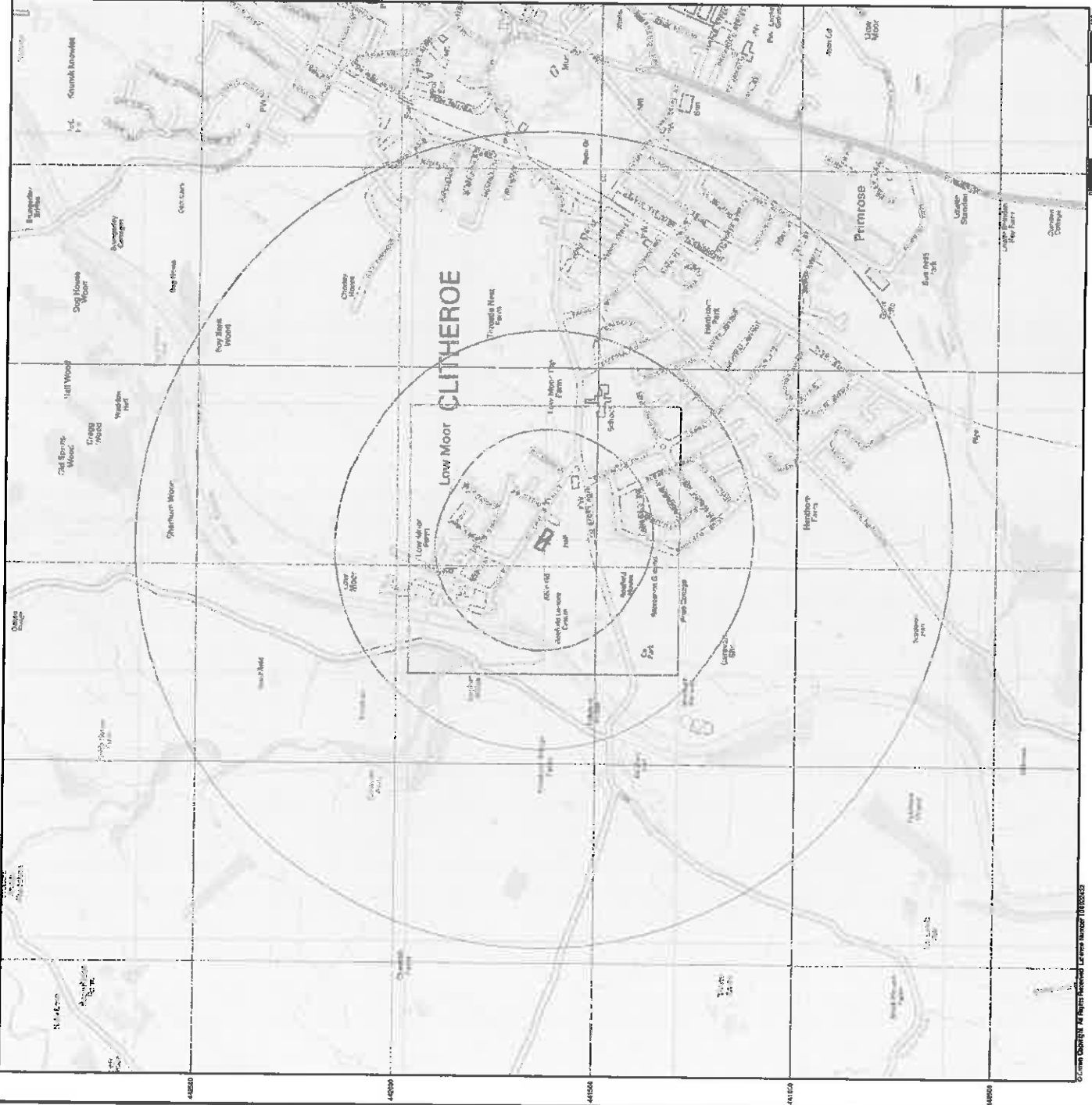


Order Details

Order Details: 64067356, 1.1
Customer Ref: LKC 15 1072
National Grid Reference: 373070, 441630
Site: A
Site Area (Ha): 0.11
Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



General

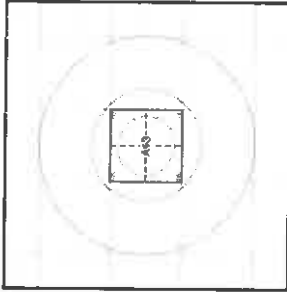
☒ Specified Site
☒ Specified Subsite(s)
☒ Breathing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

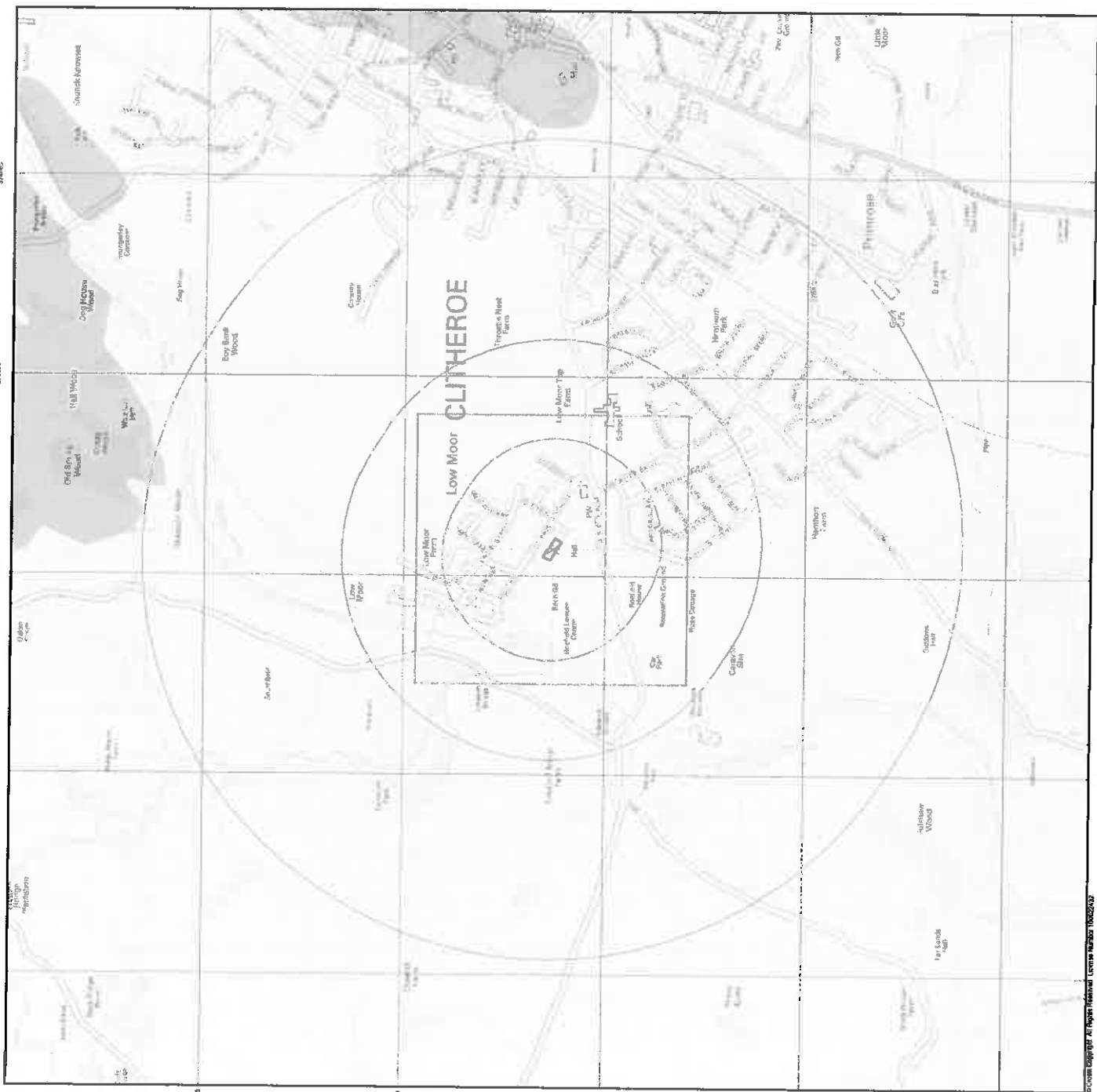


Order Details

Order Details: 84967356, 1, 1
 Customer Ref: LKC 15 1072
 National Grid Reference: 373070, 441630
 Slice: A
 Site Area (Ha): 0.11
 Search Buffer (m): 1000

Site Details

St Paul's Terrace, Clitheroe, BB7 2LS



APPENDIX C

HISTORICAL BGS BOREHOLE DATA

AL NO 45337

68

Name of site SHIREBURN CARAVAN SITE, CLITHEROE NORTHWEST EA					WRB No. SD 74/72 SD74SW/26				
Owner MR COWBURN			Licence no. Appln no. Cancelled		Nat. grid ref. SD 7260 4199				
Occupier			IGS ref. no.		Status LICENSED ABSTRACTION-BH.				
Ground Level			m OD		ft. OD		Aquifer CARBONIFEROUS LIMESTONE		
Level of well top			m OD		ft. OD		Code		
Rest water level			m bwt		ft. bwt		Summary of geological section		
(Date)			m OD		ft. OD		Thickness		
Construction: Method			Date		2004		Depth		
Depth bwt	Dia.	Linings (below well top)				Dia.	Type		
		From	To						
Abstraction rates			Type of pump						
gph PWL			Chem./bact. anal.		YES/NO				
gph			Well driller		DALES WATER				

If insufficient space has been allowed, continue in 'Notes' overleaf.

Lockie 162

RECEIVED FROM
20 JAN 2005
ENVIRON AGENCY

AC NO 45388

FORM WR - 38

Agency No:

ENVIRONMENT
AGENCY

SD74/77

BOREHOLE RECORD

CONSENT 1359

A. SITE DETAILS

Borehole drilled for	SHIREBURN PARK LTD	
Location	SHIREBURN CARAVAN PARK, WADDINGTON, CLITHEROE.	
NGR (8 fig)	SD 7220 4431	Please attach site plan
Ground Level (if known)	7260 4199	
Drilling Company	DALES WATER SERVICES LTD	
Date of drilling	Commenced: 18 6 04 Completed: 23 6 04	

SD74SW/26

B. CONSTRUCTION DETAILS

Borehole datum (if not ground level).....	EDGE OF MANHOLE		above
(point from which all measurements of depth are taken eg flange, edge of chamber, etc)			
Borehole drilled diameter	150	mm from	GL to 63
m/depth			
		mm from	to m/depth
		mm from	to m/depth
Casing material ^{PLAIN} STEEL diameter	150	mm from	GL to 26
and type (eg plain steel, plastic slotted)			m/depth
SLOTTED STEEL diameter	125	mm from	25 to 63
			m/depth
diameter		mm from	to m/depth
diameter		mm from	to m/depth
Grouting details			
Water struck at	16.50m	34m	m (depth below datum - mbd)
	48m		m (depth below datum - mbd)
Rest water level on completion	13.20m		m (depth below datum - mbd)

C. TEST PUMPING SUMMARY (Please supply fully details on Form WR - 39)

Test Pumping Datum (if different from borehole datum)	_____	above m below borehole datum (mbd)
Pump Suction Depth	_____	mbd
Water Level (Start of Test)	_____	mbd
Water Level (End of Test)	_____	mbd
Pumping rate	_____	m ³ /d : l/s
for	_____	days/hours
Recovery to (from end of pumping)	_____ mbd	in _____ mins : hrs : days
Date(s) of measurements	_____	
Please Supply Chemical Analysis If Available		

D. STRATA LOG

Geological Classification	Description of Strata	Thickness	Depth
(BGS only)		m	m
	TOP SOIL	0.20	0.20
	BOULDER CLAY	8.80	9.00
	RED & BROWN LIMESTONE	38.00	47.00
	DARK GREY LIMESTONE	16.00	63.00
	(continue on separate page if necessary)		
	Other Comments (eg gas encountered, saline water intercepted, etc)		

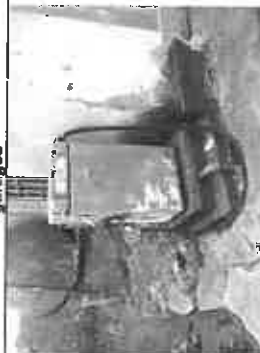
FOR OFFICIAL USE ONLY

FILE	CONSENT NO	BGS REF NO
LICENCE NO	USE OF BH	NGR

APPENDIX D

SITE RECONNAISSANCE

Site Reconnaissance – Land to the rear of St Paul's Terrace, Clitheroe

 Photograph 1 (P1) View of the two garages present onsite used for wagon maintenance	 Photograph 2 (P2) Inspection pit and many oil spillages / leakages noted on the concrete	 Photograph 3 (P3) Spraying and repair of vehicles within the eastern garage	 Photograph 4 (P4) Storage of parts and large diesel tank within the eastern garage	 Photograph 5 (P5) Western open area to the garage with a possible corrugated ACM roof	 Photograph 6 (P6) Used oil barrels to the west of the garages	 Photograph 7 (P7) Above ground diesel tank and grid cover to below ground waste oil tank	 Photograph 8 (P8) Above ground diesel tank to the south east of the garages on a brick bund	 Photograph 9 (P9) Fuel pump noted east of the garages - fuel staining noted up the building	 Photograph 10 (P10) View of allotment area to the west of the site with sheds and raised planters	 Photograph 11 (P11) Domestic garage to the far west corner of the site	 Photograph 12 (P12) Evidence of drains and services present across the site
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Not to Scale

APPENDIX E

RISK EVALUATION

Risk Evaluation

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552¹¹. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table E-1).
- Magnitude of the probability (likelihood) of the risk occurring (Table E-2).

Consequence (Severity)		
Classification	Definition	Example
Severe	- Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. - Short term risk of pollution (note: water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. - Catastrophic damage to buildings/properties. - A short term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definition of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	- High Concentrations of cyanide on the surface of an informal recreation area. - Major spillage of contaminants from site into controlled waters. - Explosion, causing building collapse (can also equate to short term human health risk if buildings are occupied).
Medium	- Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). - Pollution of sensitive water resources (note Water Resources Act contains no scope for considering significance of pollution). - A significant change in a particular ecosystem, or organism forming part of such ecosystem.	- Concentrations of a contaminant from site exceed generic, or site specific assessment criteria. - Leaching of contaminants from a site to a major or minor aquifer (Principal and Secondary). - Death of a species within a designated nature reserve.
Mild	- Pollution of non-sensitive water resources. - Significant damage to crops, buildings, structures and services ('significant harm' as defined in DETR, 2000). - Damage to sensitive buildings/structures/services or the environment.	- Pollution of non-classified groundwater. - Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	- Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. - Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). - Easily repairable damage to buildings, structures and services.	- The presence of contaminants at such concentrations that protective equipment is required during site works. - The loss of plants in a landscaping scheme. - Discoloration of concrete.

Table E-1: Classification of Consequence

¹¹ CIRIA C552 (2001) Contaminated Land Risk Assessment - A guide to good practice.

Probability (Likelihood)	
Classification	Definition
High Likelihood	- There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	- There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. - Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	- There is a pollutant linkage and circumstances are possible under which an event could occur. - However it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	- There is a pollutant linkage but circumstances are such that it is improbable that an event would occur in the very long term.

Table E-2. Classification of Probability.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table E-3). It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table E-3: Comparison of Consequence against Probability

Once the risk has been determined the corresponding action can be assessed (Table E-4).

Risk	Action Required
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate Risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Table E-4: Description of the Classification and Likely Action Required.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

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