BROAD LANE, ROCHDALE

PHASE 1: PRELIMINARY RISK ASSESSMENT

Job Number: LKC 18 1211
Date: December 2018
Client: Mr D Hulme



INCREASING LAND VALUE

LK GROUP

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1 Introduction

1.1 Background

LK Consult Ltd (LKC) has been commissioned by Mr D Hulme to carry out a Phase 1 Preliminary Risk Assessment (PRA) for Broad Lane, Rochdale. The report was undertaken in support of a future planning application for the construction of 1no. detached dwelling.

According to guidance set out in CLR11[1] and the National Planning Policy Framework (NPPF)[2], 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 once planning approval has been granted.

1.2 Site Details

A summary of the site details is presented in Table 1-1. Figures 1 and 2 indicate the site location, boundary and the proposed development.

Location	The northern end of Broad Lane, opposite Lower Lane, Rochdale. Centred at approximate National Grid Reference 391080E 411250N.
Approximate Area	500m^2.
Topography	157 metres Above Ordnance Datum (AOD). Site is approximately level.
Current Land Use	Site Vacant land with a concrete driveway and an area of hardstanding to the southeast. Surrounding Area North: Residential properties. East: Broad Lane and residential properties. South: Residential properties. West: Residential properties.
Proposed Development	1no. detached dwelling with private garden.

Table 1-1: Summary of the site details.

[1] EA (2004). "Model Procedures for the Management of Land Contamination". R&D Publication CLR 11.
[2] DCL (2018). "National Planning Policy Framework". Department of Communities and Local Government.

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 potentially contaminated features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be potentially significant features within a 250m buffer that could be infilled historically.

Site Features	Location	Map Dates Present	Comments
Undeveloped Land	Whole Site	1851-2018	
Field boundary	N	1851-1893	- No longer within site boundary by 1894 mapping (possible digitising area).
Field boundary	W	1910 only	- Forming a separate rectangular plot. - No longer present by 1930 mapping.
Field boundary	SE to NW	1975 only	- Splitting the site into two plots. - No longer present by 1979 mapping.
Trees	Whole Site	2000-2018	- Trees shown on 2000 and 2018 aerial photography only (not annotated on mapping).
Surrounding Area Features	**Distance / Location**	**Map Dates Present**	**Comments**
Watercourse	60m W	1851-present	
Pond	185m SE	1890-1992	- Potentially infilled by 1993 mapping.
Farm	75m NE	1892-present	- A tank is present from 1993 mapping. - Tank and 2 buildings no longer present by 2013 mapping.
Works	53m SE	1893-2003	- Labelled 'Springfield Works (Wheelwright)' until 1910 mapping. - No longer present by 2009 mapping.
Residential properties	Adj to S of site	1910-present	
Glass house	27m NE	1910 only	- No longer present by 1930 mapping.
Residential properties	Adj N & W	1994-present	
Electrical sub station	54m S	2018 only	- Only labelled on 2018 mapping.

Table 2-1: Summary of the historical features.

Google Street View dated 2009-2016 shows the site heavily vegetated including trees with a hardstood driveway along the southeastern boundary. 2017 Google Street View shows the site has been cleared (soil exposed) with the hardstood ground still present in the southeast.

3 Environmental Setting

In compiling this Section, LKC consulted environmental information provided by the Envirocheck Report (Appendix B),the Coal Authority (Appendix C), Zetica UXO (Appendix D), Natural England and the Environment Agency. A summary is presented in Table 3-1.

Categories(data sources)			Details
Geology	Artificial[1]		- None recorded on the database.
	Superficial[1]		- Hummocky (Moundy) Glacial Deposits, Devensian (Diamicton).
	Bedrock[1,2]		- Pennine Lower Coal Measures Foundation (Mudstone, Siltstone and Sandstone). - 1 fault approximately 230m W of the site striking NW-SE.
	BGS Logs[3]		- No relevant BGS logs within 250m of the site.
Hydro-geology[1]	Aquifer Designation	- Superficial	- Secondary A Aquifer.
		- Bedrock	- Secondary A Aquifer.
	Source Protection Zone (SPZ)		- Site is not within an SPZ.
	Groundwater Abstractions		None within 250m. - Nearest 397m NE: H Sanderson. Abstraction at Castle Farm, Lower Lane, Milnrow for general agricultural use. Permit start date 11th February 1996. Permit end date not supplied.
Hydrology[1]	Nearest Surface Water		- Un-named stream 60m W, flowing N.
	Water Quality Data		- None within 250m. - Nearest 441m W Sudden Brook – River Quality B.
	Flooding		- No risk from rivers or sea. - Potential for groundwater flooding of property situated below ground level.
	Surface Water Abstractions		- None within 1km of the site.
	Discharge Consents		None within 250m. - Nearest 564m S: Orchid Pubs and Dining Limited, discharge of final/treated effluent into Sudden Brook. Effective from 10th June 1991.
	Pollution Incidents		3 within 250m. - Nearest 120m E: 1st June 1999, Category 3 (Minor Incident) involving the release of dilute slurry/dirty water into the River Stretch.

Table 3-1: Summary of the environmental setting.
Data Sources:
1 – Envirocheck Report (Appendix A & B);
2 – BGS Sheet 85 1:50,000;
3 – BGS GeoIndex http://mapapps2.bgs.ac.uk/geoindex/home.html (Appendix C).

Categories(data sources)		Details
Minerals & Mining	Coal Report[4]	- Site located within a Coal Mining Reporting Area. - Site is not within a surface area that could be affected by any past or present underground coal mining. - No shafts present within 20m of the site. - The property is not in an area likely to be affected from any planned future underground coal mining.
	Coal Mining Development High Risk Area (DHRA)[5]	- Not within DHRA.
	Surface Extractions[1]	- No mineral extraction within 500m of the site.
	Cheshire Brine Compensation District[1,5,6]	- N/A.
	Mining Instability / Non-Coal Mining Area[1]	- No hazard.
Ground Stability (onsite)[1]	Collapsible Ground	- Very low hazard.
	Compressible Ground	- No hazard.
	Ground Dissolution	- No hazard.
	Landslide	- Very low hazard.
	Running Sand	- Very low hazard.
	Shrinking / Swelling Clay	- Low hazard.
Landfill Sites[1]	Known / Registered	- None within the Envirocheck search area of 1km.
	Potential	3 within 250m: - Unknown potentially infilled land (water) 26m NE on 1851 mapping. - Pond 185m SE, potentially infilled by 1993 mapping. - Unknown potentially infilled land (water) 97m S on 1956 mapping.
Radon[1]		- Probability of <1% of homes above Action Level. No further action required.
Designated Sites[1]		- None within the Envirocheck search area of 1km.
Contemporary Trade Directory[1]		1 within 100m: - 62m S 'Burnedge Mill Animal Feeds'. Status listed as inactive.
Fuel Station Entries[1]		None within 100m. - Nearest 726m SW 'Dean Service Station'. Status listed as open.
Unexploded Bomb Risk (UXO)[7]		- Low.

Table 3-1 (cont.): Summary of the environmental setting.

Data Sources:
1 – Envirocheck Report (Appendix A & B);
4 - Coal Authority Report (Appendix C);
5 –The Coal Authority Web Mapping Services (WMS) and Interactive Map Viewer http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx
6 – Cheshire Brine Subsidence Compensation Board Compensation District & Consultation Areas http://www.cheshirebrine.com/wp-content/uploads/2016/11/NL08134-001-002.pdf;
7 – Zetica UXO Unexploded Bomb Risk Map (Appendix D).

4 Site Reconnaissance

A site reconnaissance was carried out on 20th December 2018. Hand dug trial holes were undertaken in accessible areas to confirm the shallow ground conditions.

An annotated plan with photographs and trial hole descriptions is provided in Appendix E.

Relevant features identified on site are summarised below:

Access to site:

- Access from Broad Lane. The site is currently open access.

Main site features:

- Site is currently vacant land.
- A small stone wall is present along the southern site boundary.
- Wooden fencing forms the eastern and northern site boundaries, with the site sloping slightly down to the fencing.
- A concrete slab wall is present in front of the wooden fence along the western site boundary.
- There is no site boundary to the west separating the neighbouring property.

Ground cover:

- The majority of the site is covered by grass. Whole bricks were evident at the surface in areas of the site.
- A concrete driveway is present along the southwest boundary.
- Made ground was identified on site. Trial holes identified sand silt with coal, clinker, brick and glass (TH1 dark brown sandy silt with frequent rootlets, occasional clinker, rare brick and sandstone gravel to 0.4m, TH2 dark brown sandy silt with occasional rootlets, coal and clinker, rare brick and glass to 0.3m).

Evidence of services:

- There is no evidence of services on the site.

The surrounding area comprises:

- North: Residential properties.
- East: Broad Lane and residential properties.
- South: Residential properties.
- West: Residential properties.

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 CLR11[3], on the premise that, if there is no pollutant linkage, then there will be no risk to the receptor. 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

Potential contamination sources are detailed in Table 5-1.

Source	Contaminants
Onsite made ground	- Ash and clinker (e.g. from hearths and boilers, often historically used for site raising / levelling, noted in the site walkover): Heavy metals, sulphates and PAHs[4]. - If significant depth of organic / putrescible material: Hazardous gas (principally carbon dioxide and methane).
Offsite potentially infilled ground	- Hazardous gas (principally carbon dioxide and methane). - Given age, size and location of potentially infilled features, not considered to be a significant source.
Surrounding area	- No significant contamination sources within influencing distance of the site.
Underlying Pennine Lower Coal Measures	- Ground Gas (principally carbon dioxide and methane). - No shallow coal seams or workings anticipated; therefore, not considered to be a significant source.

Table 5-1: Potential contamination sources.

5.3 Potential Receptors

Potential receptors are detailed in Table 5-2.

Receptors	
Human Health	- Future site users (including residents, visitors and site workers). - Offsite land users.
Controlled Waters	- Secondary A Aquifer (superficial and bedrock). - Un-named stream 60m W.
Buildings and structures.	
Potable water pipes.	
Flora within future gardens and landscaping.	

Table 5-2: Potential receptors.

[3] Defra (2004). "Model Procedures for the Management of Land Contamination". R&D Publication CLR 11.
[4] Defra (2002). "Potential Contaminants for the Assessment of Land". R&D Publication CLR 8.

5.4 Potential Pathways

Potential pathways are detailed in Table 5-3.

Pathways		
Soil	Human Health[5] (residential land use: houses with private gardens)	- Ingestion of soil. - Ingestion of soil-derived indoor dust. - Ingestion of contaminated vegetables. - Ingestion of soil attached to vegetables. - Dermal contact with soil. - Dermal contact with soil-derived indoor dust. - Inhalation of soil-derived outdoor dust. - Inhalation of soil-derived indoor dust. - Inhalation of vapours outside. - Inhalation of vapours inside.
	- Windblown dust and fibres to adjacent receptors.	
	- Direct contact with receptors (building foundations, services).	
	- Root uptake.	
Water	- Surface run-off over impermeable surface. - Site is relatively flat; therefore, surface run-off will be limited.	
	- Infiltration into the ground, through potentially contaminated material (contamination possibly going into solution). - Site is a combination of vegetated ground and hardstanding; therefore, infiltration is likely to be varied.	
	- Migration through potentially permeable strata and preferential pathways. - Superficial (Diamicton) likely to be low permeability. - Bedrock (mudstone, siltstone, sandstone) likely to variably permeable. - No preferential pathways are anticipated.	
Gas	- Migration through potentially permeable strata and preferential pathways. - Superficial (Diamicton) likely to be low permeability. - Bedrock (mudstone, siltstone, sandstone) likely to variably permeable. - No preferential pathways are anticipated.	
	- Migration into buildings (e.g. via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).	

Table 5-3: Potential pathways.

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

5.5 Preliminary Contamination Conceptual Model

The Preliminary Contamination Conceptual Model is illustrated in Table 5-4 and has identified seven generic potential pollutant linkages.
Each linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552[6].

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 F.

Where LKC identified a low to very low risk, 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.

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.

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 guidance[7]) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

[6] CIRIA (2001). “Contaminated Land Risk Assessment: A Guide to Good Practice”. C552.
[7] HSE (1991). “Protection of Workers and the General Public During Development of Contaminated Land”. London HMSO.

Pollutant Linkage	Pathway	Receptor	Contaminant (source)	Probability	Consequence	Risk	Assessment & Recommendations
PL1	- Dermal contact. - Inhalation of soil, fibres and dust. - Ingestion of soils, dust, vegetables, soil attached to vegetables. - Windblown dust.	- Future site users. - Offsite receptors.	- Heavy metals, PAHs, ACM, hydrocarbons, other inorganic and organic contaminants (onsite made ground).	Low Likelihood	Medium	**Moderate / Low**	- Low likelihood probability given history of site and significant depth of made ground not anticipated. - Moderate risk assumed due to the sensitive nature of development (residential). - **Recommendation**: Intrusive investigation required in areas of proposed soft landscaping.
PL2	- Inhalation of vapours. - Migration through permeable strata and preferential pathways.	- Future site users. - Offsite receptors.	- Volatile contaminants such as hydrocarbons (onsite made ground).	Unlikely	Medium	**Low**	- Unlikely as no significant source identified onsite. - **Recommendation**: No testing required, unless evidence of volatile contaminants identified in the ground.
PL3	- Inhalation of gas. - Migration through permeable strata and preferential pathways. - Explosion in confined spaces.	- Future site users. - Buildings. - Offsite land users.	- Ground Gas and Hazardous Gas: - Methane, carbon dioxide (coal measures, made ground and potentially infilled features).	Unlikely	Severe	Moderate / **Low**	- Unlikely probability and low risk assumed as no significant source anticipated and superficial clay will act as a barrier to gas. - **Recommendation**: No further assessment, unless a significant source of gas and possible pathways are identified.
PL4	- Surface run-off. - Migration through permeable strata and preferential pathways. - Perched waters migration.	- Groundwater (Secondary A Aquifer). - Surface water (Un-named stream 60m W).	- Mobile contaminants such as metals, PAHs, hydrocarbons, volatile compounds (onsite made ground).	Unlikely	Medium	**Low**	- Unlikely probability given history of site and significant depth of made ground not anticipated. - **Recommendation**: No further assessment, unless evidence of significant potentially mobile contamination is identified in the soil.
PL5	- Sulphate attack on concrete.	- Building structure.	- Sulphate (possible ash in made ground).	Likely	Mild	**Moderate / Low**	- Likely as coal and clinker identified during site reconnaissance. - Moderate risk assumed at this stage. - **Recommendation**: Intrusive investigation required.
PL6	- Ingestion of tainted water supply.	- Future site users. - Water pipes.	- Organic contaminants such as hydrocarbons, PAHs (onsite made ground).	Low Likelihood	Medium	**Moderate / Low**	- Low likelihood as significant contamination not anticipated at pipeline depth (0.75-1.35m). - Risk is considered moderate at this stage due to unknown depth of made ground. - **Recommendation**: Sampling required if made ground present at pipeline installation depths.
PL7	- Direct contact (plant uptake).	- Flora.	- Phytotoxic contaminants (onsite made ground).	Low Likelihood	Minor	**Very Low**	- Low probability as contamination considered possible, which may be taken up by flora in soft landscaping / gardens. - **Recommendation**: No further assessment, unless significant phytotoxic contamination identified.

Table 5-4: Preliminary Contamination Conceptual Model.

6 Preliminary Geotechnical Risk Assessment

The bedrock geology is mapped as Pennine Lower Coal Measures Formation overlain by superficial Diamicton deposits. A limited trial hole survey identified made ground comprising occasional clinker and coal and rare brick, sandstone gravel and glass. Given the history of the site, limited made ground is anticipated.

The Envirocheck Report identified a low hazard of shrinking / swelling clay; a very low hazard of collapsible ground, landslide and running sand; and no hazard compressible ground or ground dissolution.

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

- 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.
- The CBR value of the ground for footpath and road design should be calculated.
- Sulphate content of the made ground and natural ground should be confirmed to assess the concrete requirements.

7 Summary Conclusions and Recommendations

7.1 Summary Conclusions

The proposed development is for the construction of 1no. detached dwelling with a private garden. The site has remained undeveloped, with several field boundaries running across the site historically. The surrounding area has mainly been developed for residential use.

The site currently comprises rough open ground (no buildings), made ground was observed during the site reconnaissance.

Potential contamination sources affecting the site were identified as heavy metals, PAHs, sulphate, asbestos and gas (carbon dioxide and methane).

These contaminants may pose a risk to site users (via ingestion, dermal contact, inhalation pathways and explosion), controlled waters (via migration through permeable strata and 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.

Pollutant Linkage		Risk	Recommendations
1	Contaminants posing a risk to future site users via dermal contact, ingestion and inhalation (of soil, dust, fibres, vegetables).	**Moderate / Low**	Intrusive investigation required in areas of proposed soft landscaping.
2	Volatile contaminants posing a risk to future site users via the inhalation of vapours.	**Low**	No testing required, unless evidence of volatile contaminants identified in the ground.
3	Gas posing a risk to buildings and future site users via the migration of gas into building causing explosion and asphyxiation.	Moderate / **Low**	No further assessment, unless a significant source of gas and possible pathways are identified.
4	Mobile contamination posing a risk to controlled waters via the migration through permeable strata.	**Low**	No further assessment, unless evidence of significant potentially mobile contamination is identified.
5	Sulphate posing a risk to building via direct contact (sulphate attack).	**Moderate / Low**	Intrusive investigation required.
6	Organic contaminants posing a risk to water pipes.	Moderate / **Low**	Sampling required if made ground present at pipeline installation depths.
7	Phytotoxic metals posing a risk to flora via root uptake.	**Very Low**	No further assessment, unless significant phytotoxic contamination identified.

Table 7-1: Summary risk table.

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

- Unknown strength of superficial deposits for foundation design.
- Depth and variability of the water table.
- Plasticity of any clay deposits.
- CBR values of proposed access road.
- Unknown sulphate content of natural and made ground onsite.

Further work is recommended, which is detailed in the following Section.

7.2 Recommendations

7.2.1 General

In accordance with the 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.

A Phase 2 intrusive survey should be carried out across the site to investigate the identified potential pollutant linkages further. LKC would recommend this can be undertaken pre-planning or once conditional planning approval is granted. The scope of this Phase 2 survey should be prior agreed with the Local Authority.

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

7.2.2 Phase 2 Site Investigation

Based upon the available information LKC consider it unnecessary at this stage to undertake an extensive contamination investigation. However, given the unknown depth and composition of made ground in the proposed soft landscaping areas, it is recommended to carry out a small-scale investigation to address the risk from PL 1.

This investigation should comprise hand-dug trial holes in proposed soft landscaping areas to collect soil samples for chemical analysis. The site investigation should be carried in accordance with relevant guidance documents (including BS10175[8] and BS5930[9]). The scope of this investigation should be prior agreed with the Local Authority.

It may also be advisable to carry out sulphate testing of the made ground and natural below the building, to confirm the concrete classification (associated with PL 5).

Depending on the ground conditions encountered and results of the soil analysis, further assessment may be required (associated with PL 2, 3, 4, 6 and 7).

7.2.3 Watching Brief

During the site clearance and development phase a watching brief should also be maintained for any likely contaminative made ground, such as ash and clinker; any unusual ground conditions and any visual and / or olfactory evidence of hydrocarbon contamination. The watching brief should be carried out by a suitably qualified person.

If evidence of made ground and/or visual and olfactory evidence of contaminants are identified, then near surface sampling will likely be required to characterise the material and recommendations for appropriate remediation undertaken, if required. Samples should be collected in sufficient quantity and analysed for a suitable suite of determinands to demonstrably characterise the site.

Should any significant thickness of made ground and/or organic material, further assessment of the gas risk may be required.

[8] British Standard (2017). “Investigation of Potentially Contaminated Sites – Code of Practice”. BS10175:2017.
[9] British Standard (2015). “Code of Practice for Ground Investigations”. BS5930:2015.

Figures

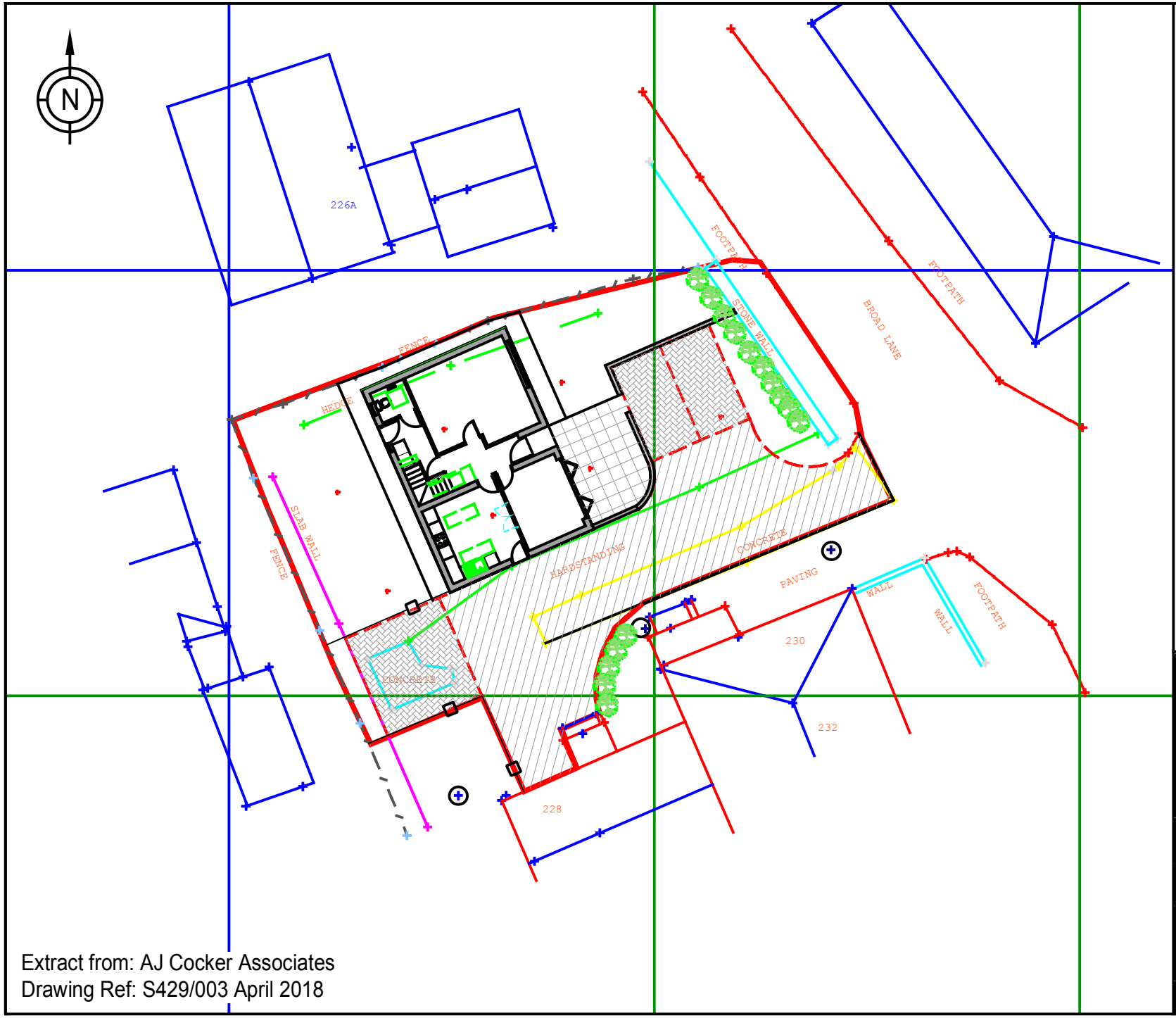


Contains Ordnance Survey data ©Crown copyright and database right 2010

Figure 1: Site Location Plan, Broad Lane, Rochdale

Drawn: December 2018 Scale: 1:25,000 @ A4 (see scale bar)

LK CONSULT LIMITED



KEY

Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.

LK CONSULT LIMITED

Client: Mr David Hulme

Site: Broad Lane, Rochdale

Title: Proposed Development and Site Boundary Plan

Job No.:	Scale (See Scale Bar):	Figure:	Revision:
LKC 18 1479	1:250 @ A4	2	

Drawn By:	Checked By:	Drawn:
AC	CH	Dec 2018

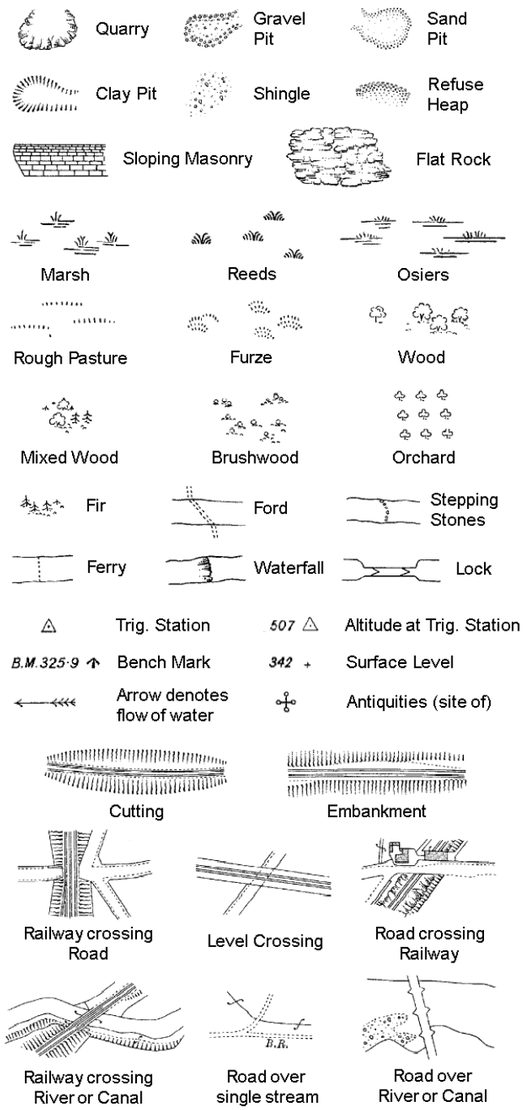
Extract from: AJ Cocker Associates
Drawing Ref: S429/003 April 2018

Appendix A

Historical Maps

Historical Mapping Legends

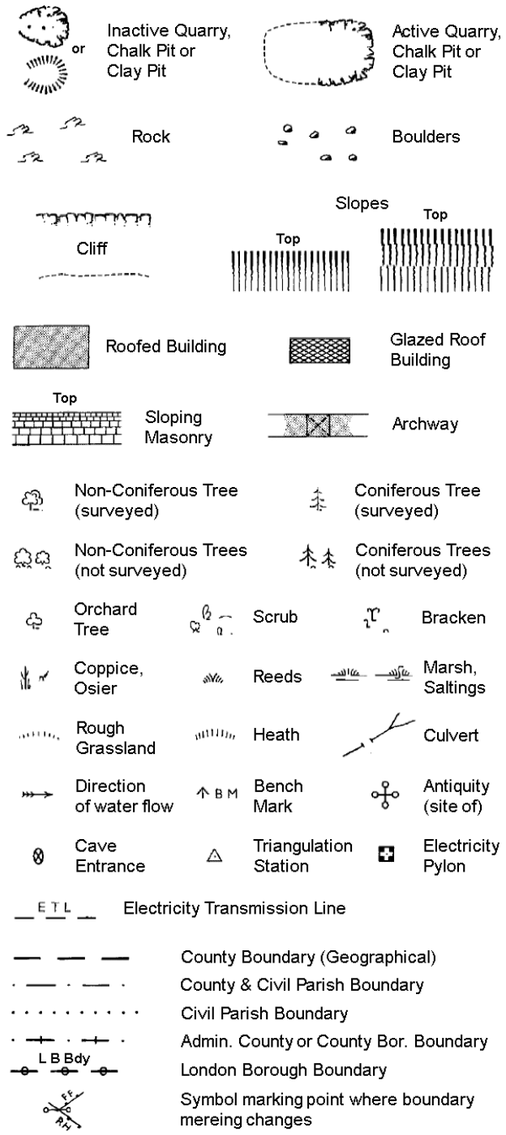
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

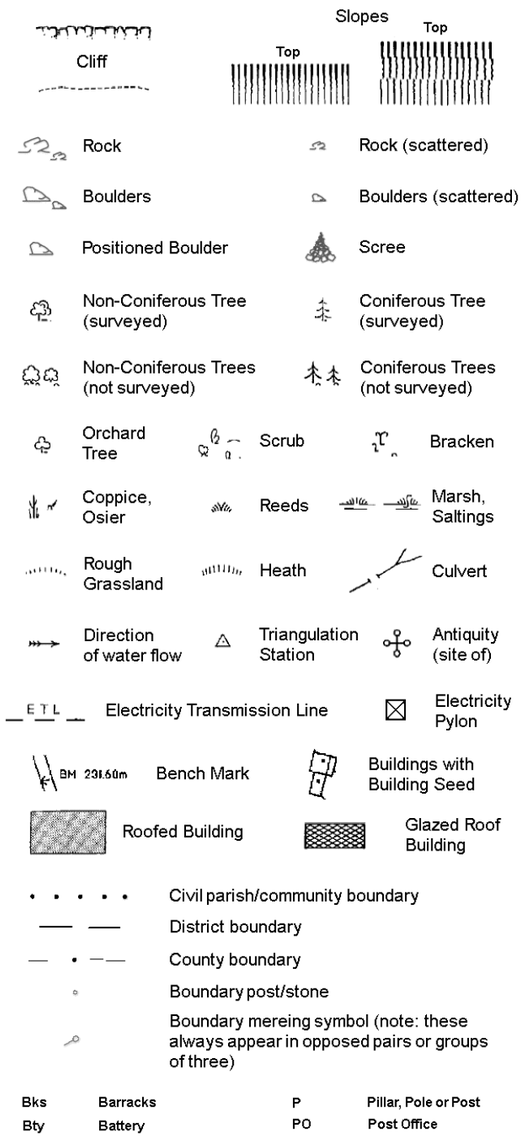
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

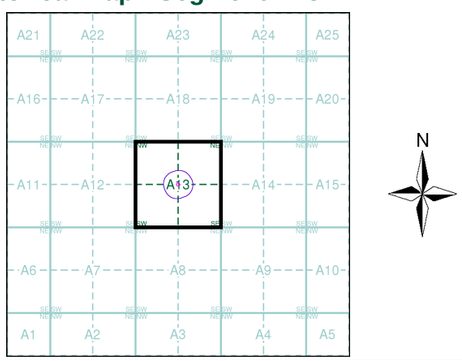
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

LK GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1890 - 1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1930	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1955 - 1956	6
Ordnance Survey Plan	1:2,500	1956	7
Ordnance Survey Plan	1:1,250	1962 - 1990	8
Ordnance Survey Plan	1:2,500	1970	9
Supply of Unpublished Survey Information	1:1,250	1974 - 1975	10
Supply of Unpublished Survey Information	1:1,250	1975	11
Ordnance Survey Plan	1:1,250	1977	12
Additional SIMs	1:1,250	1980 - 1987	13
Additional SIMs	1:1,250	1988	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:1,250	1993 - 1994	16
Large-Scale National Grid Data	1:1,250	1994 - 1995	17
Large-Scale National Grid Data	1:1,250	1996	18
Historical Aerial Photography	1:2,500	2000	19

Historical Map - Segment A13



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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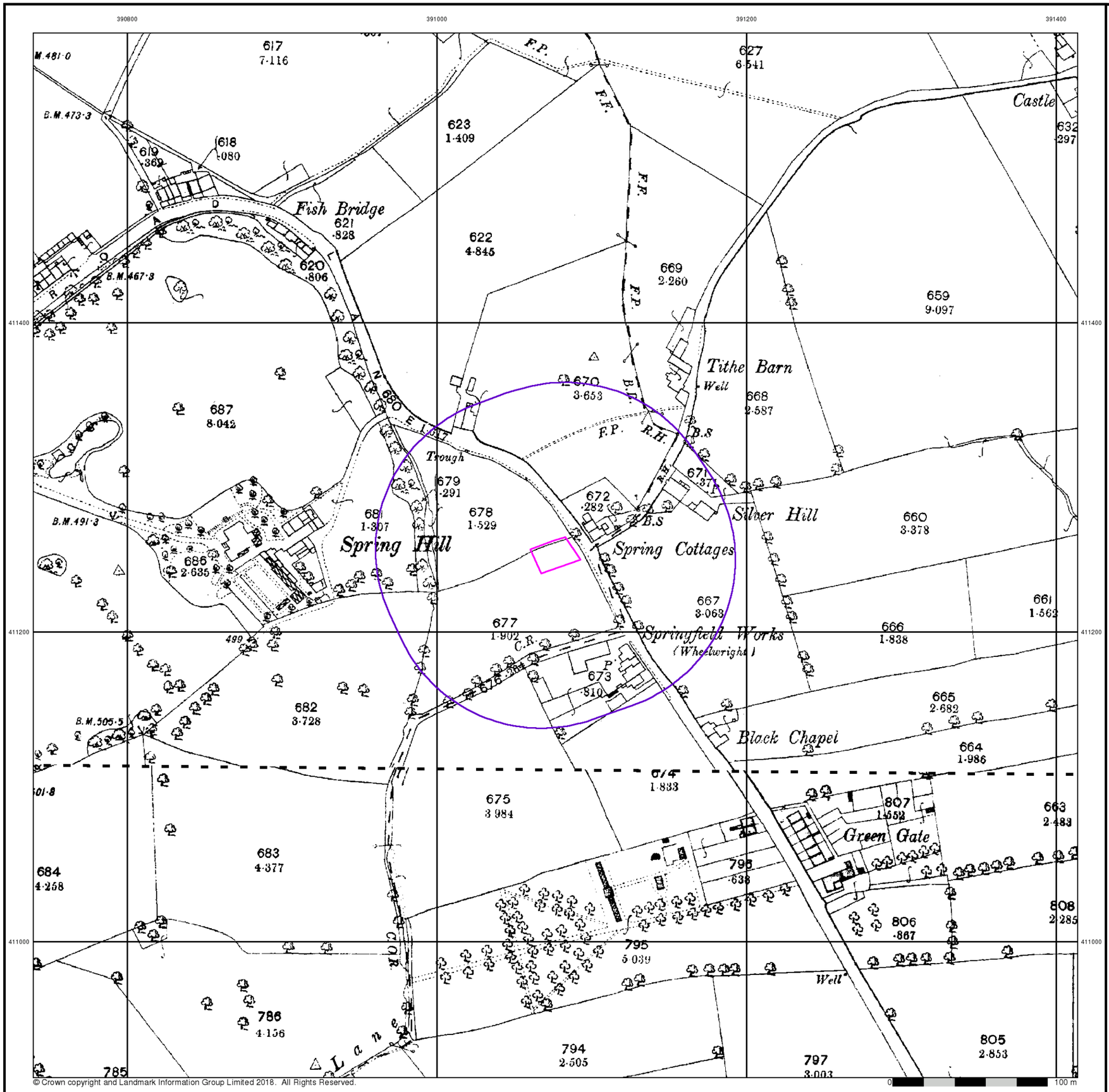
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LK GROUP

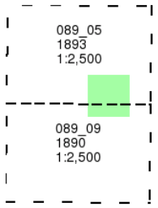
Lancashire And Furness

Published 1890 - 1893

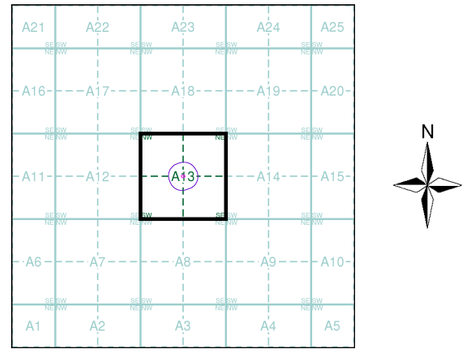
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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



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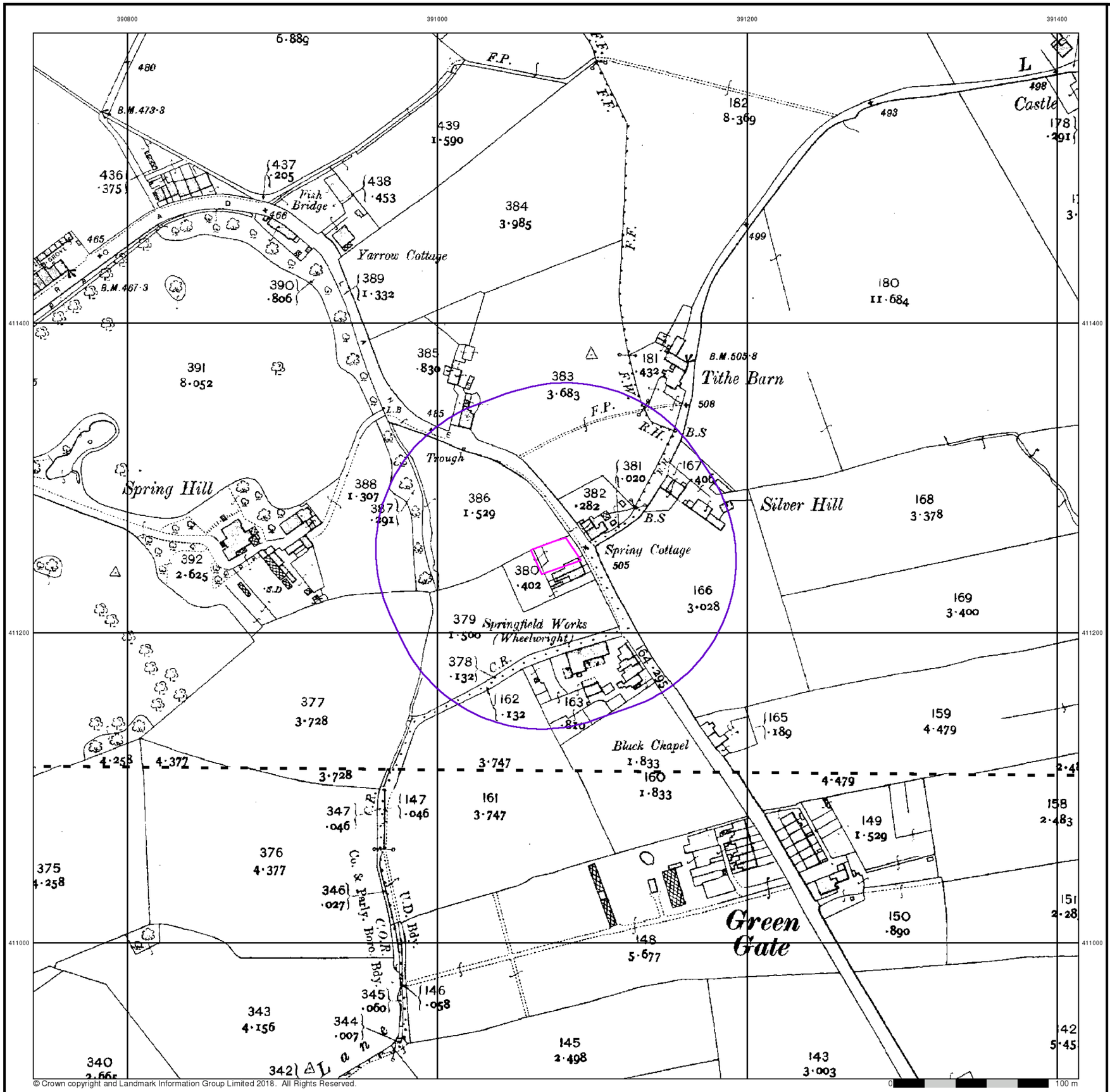


LKC GROUP

Lancashire And Furness

Published 1910

Source map scale - 1:2,500

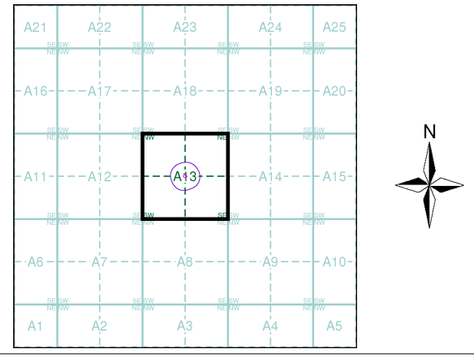
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

089_05
1910
1:2,500

089_09
1910
1:2,500

Historical Map - Segment A13



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

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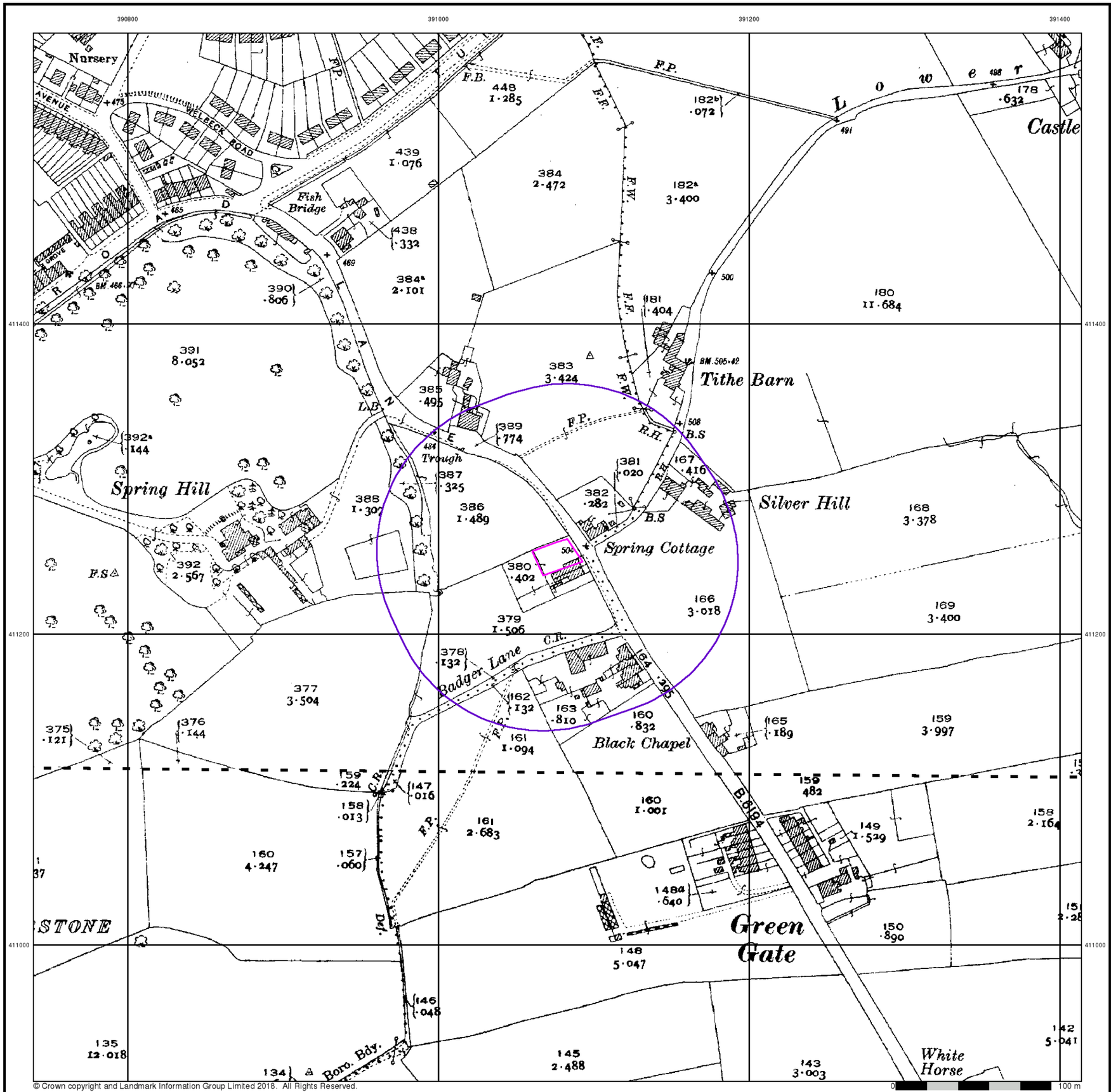


LK GROUP

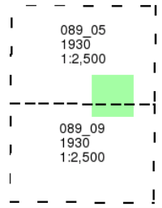
Lancashire And Furness

Published 1930

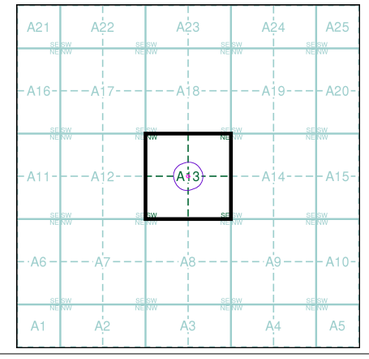
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

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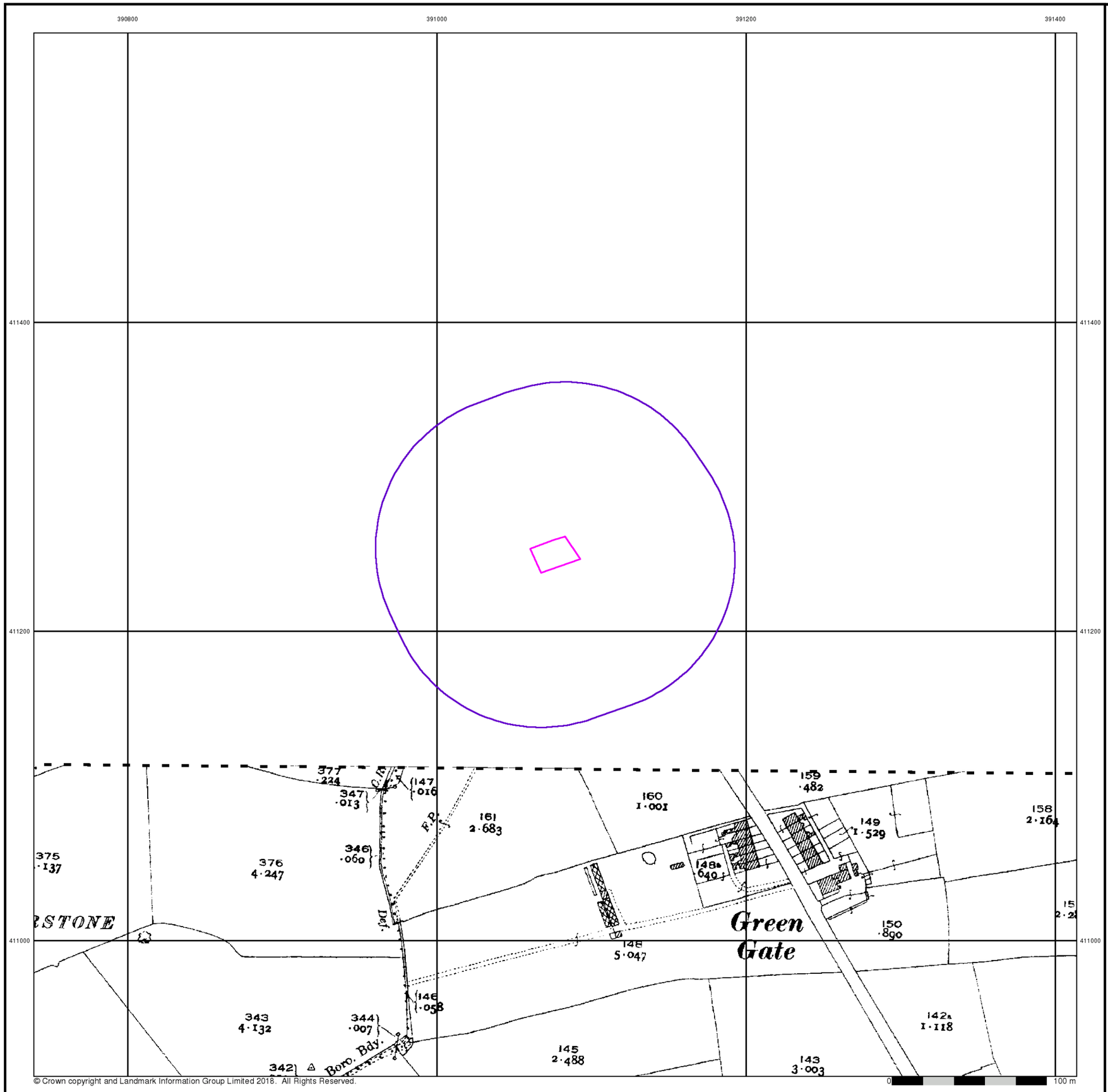

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LK GROUP

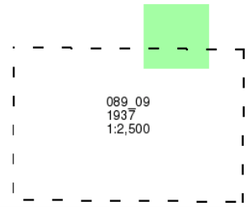
Lancashire And Furness

Published 1937

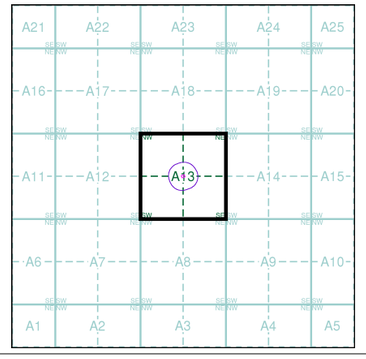
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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:	189172946_1_1
Customer Ref:	LKC 18 1211
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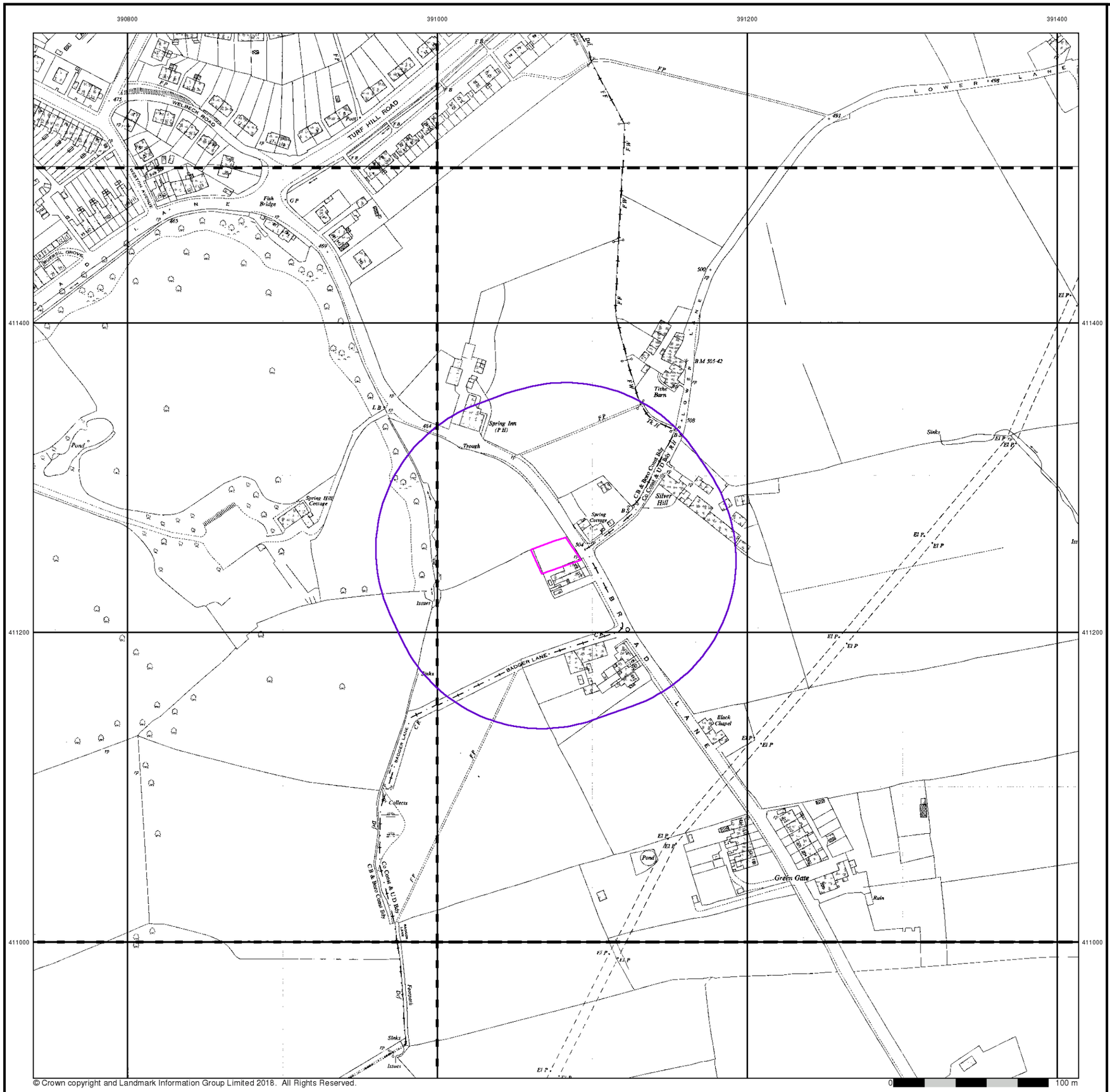


LK GROUP

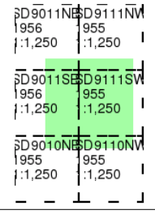
Ordnance Survey Plan

Published 1955 - 1956

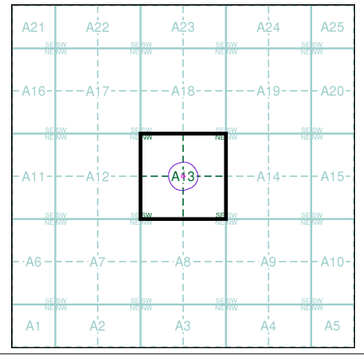
Source map scale - 1:1,250

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

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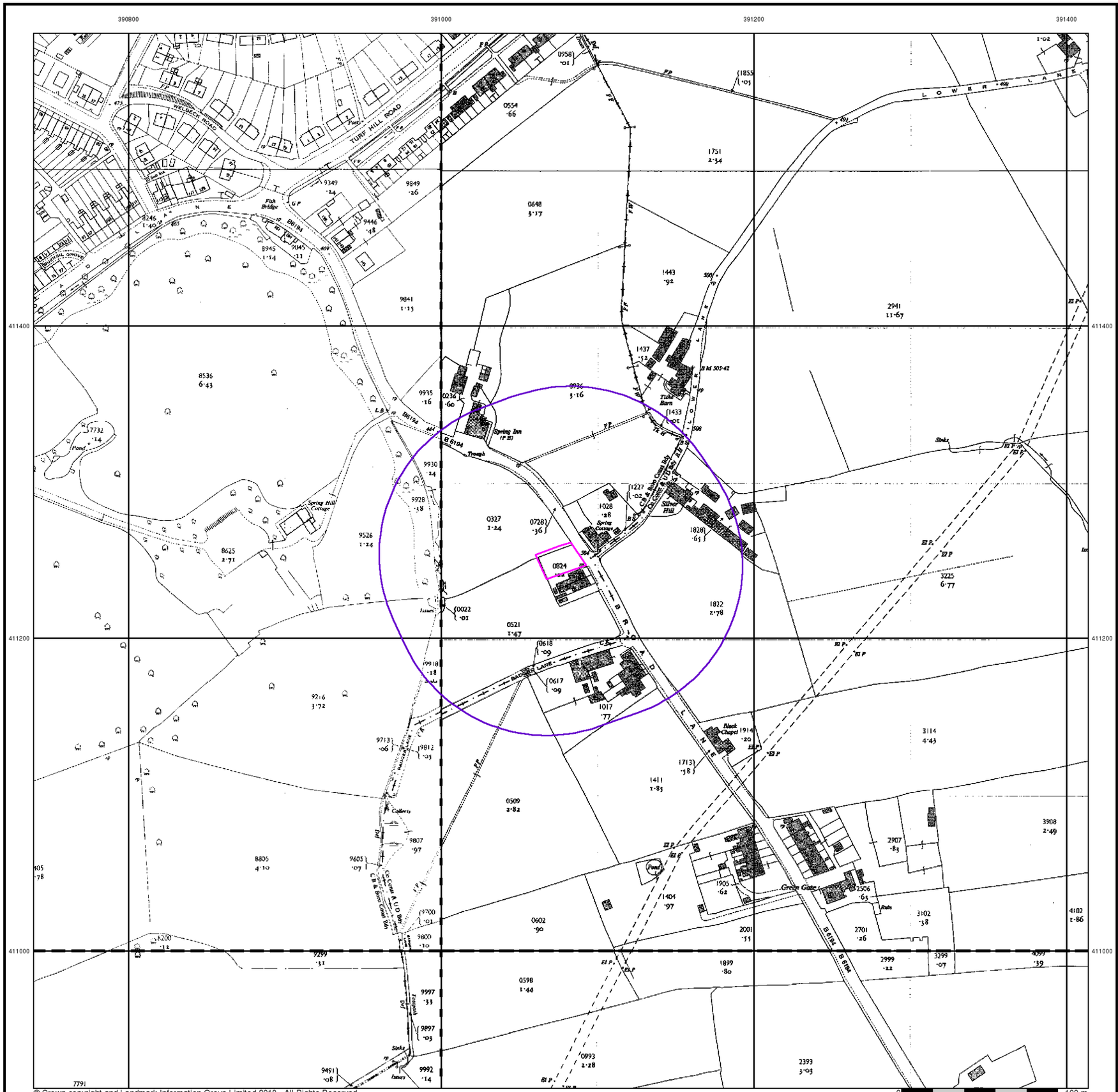

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LKC GROUP

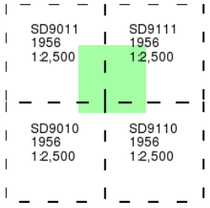
Ordnance Survey Plan

Published 1956

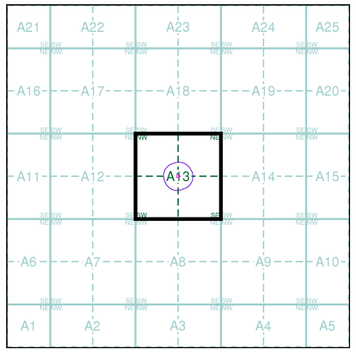
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

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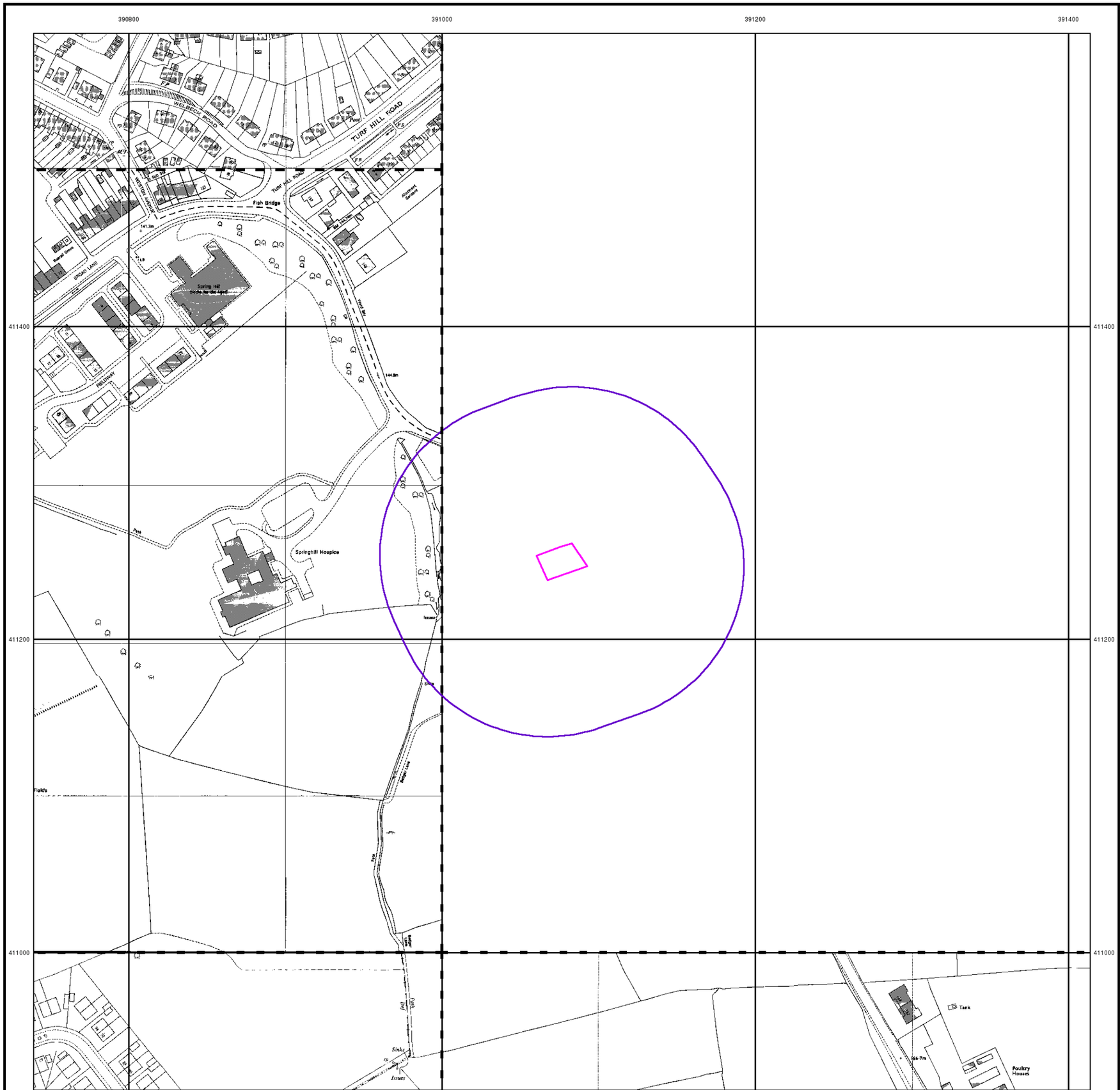
Web: www.envirocheck.co.uk



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LK GROUP

Ordnance Survey Plan

Published 1962 - 1990

Source map scale - 1:1,250

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Map Name(s) and Date(s)

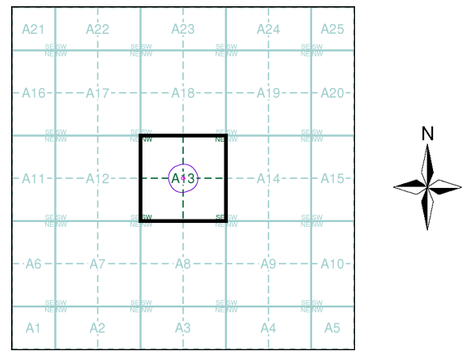
SD9011NE
1962
1:1,250

SD9011SE
1990
1:1,250

SD9010NE
1966
1:1,250

SD9110NW
1976
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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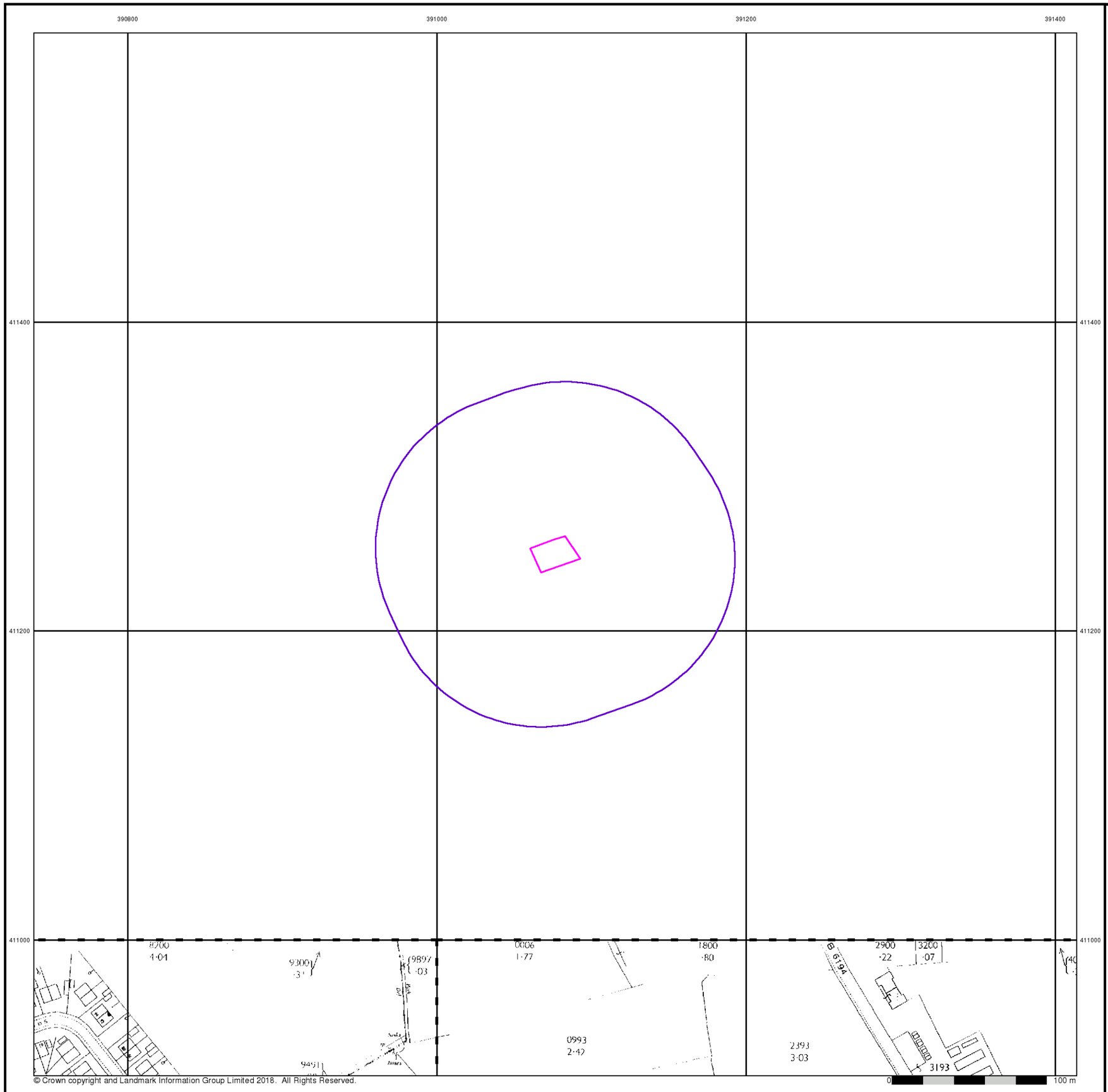

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LK GROUP

Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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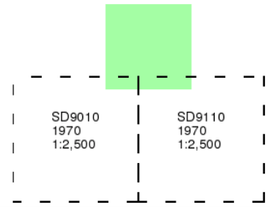
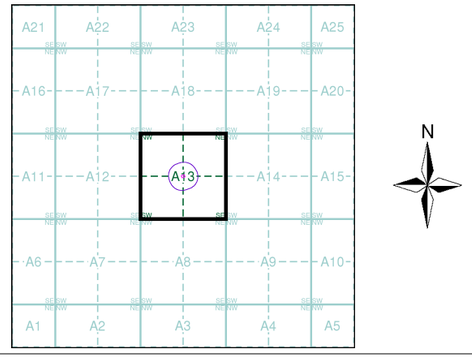
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

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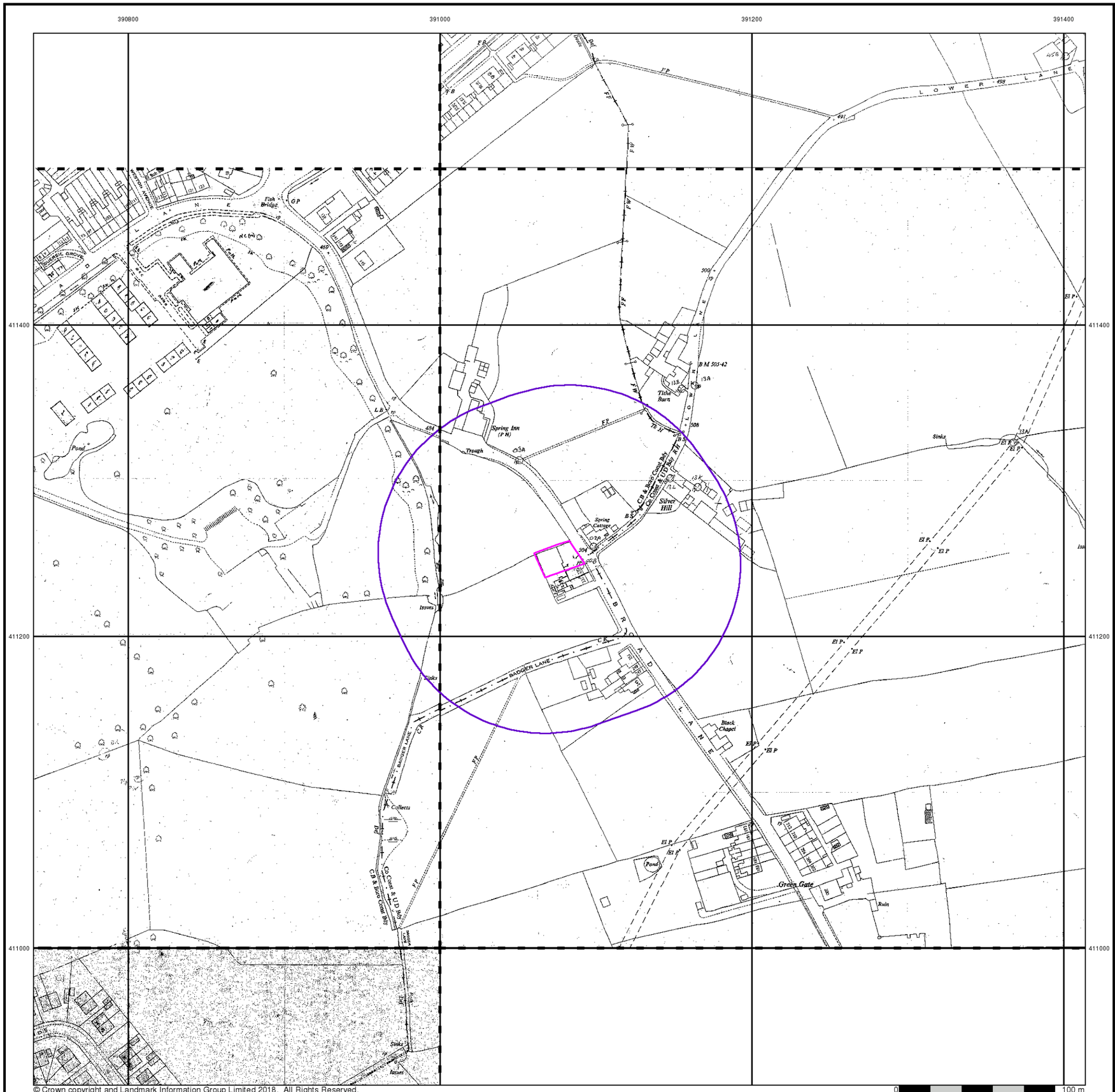

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LKC GROUP

Supply of Unpublished Survey Information

Published 1974 - 1975

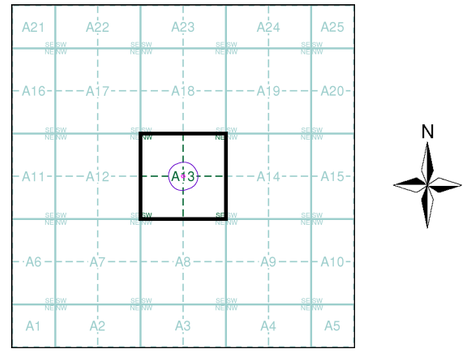
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SD9111NW 1975 1:1,250
SD9011SE 1974 1:1,250
SD9111SW 1975 1:1,250
SD9010NE 1974 1:1,250

Historical Map - Segment A13



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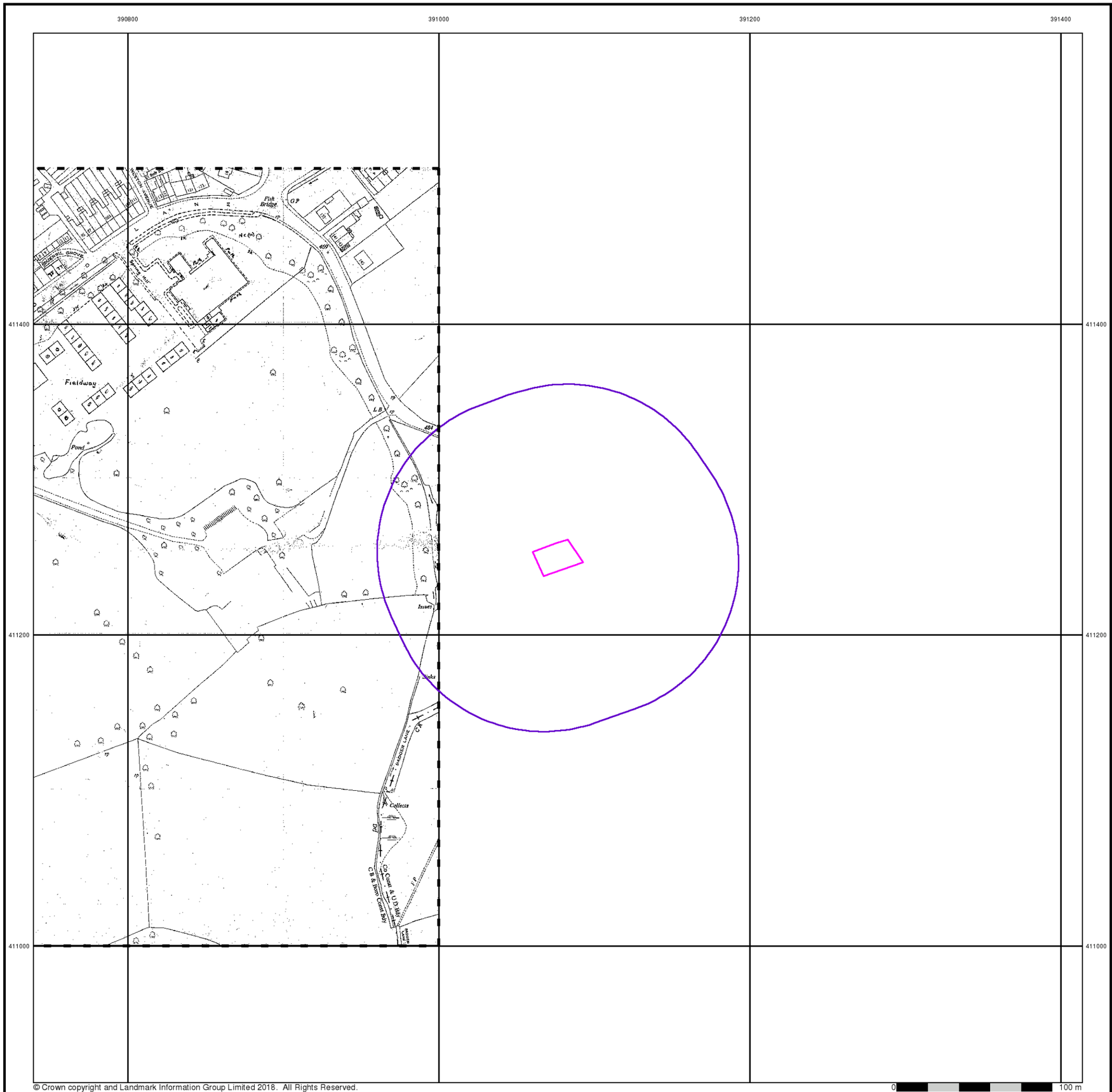


GROUP

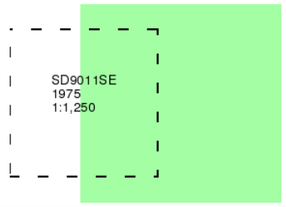
Supply of Unpublished Survey Information

Published 1975

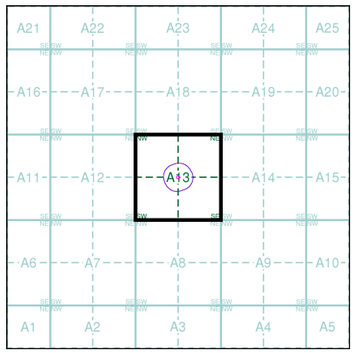
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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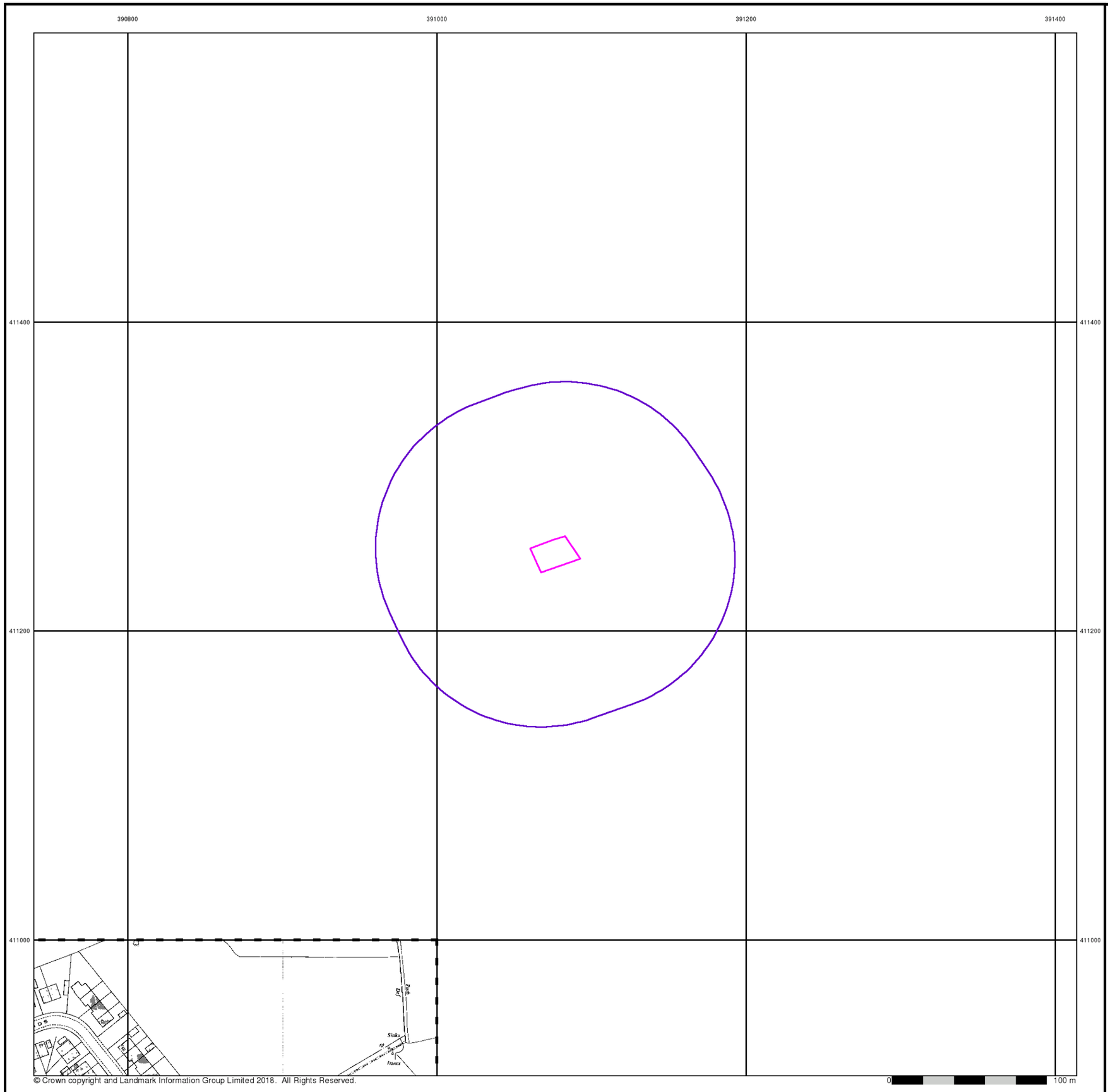

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LK GROUP

Ordnance Survey Plan

Published 1977

Source map scale - 1:1,250

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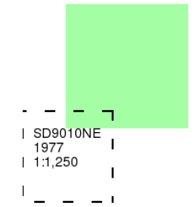
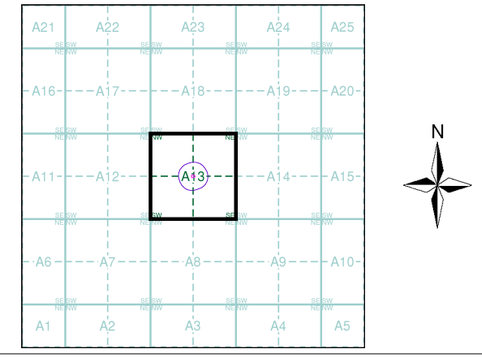
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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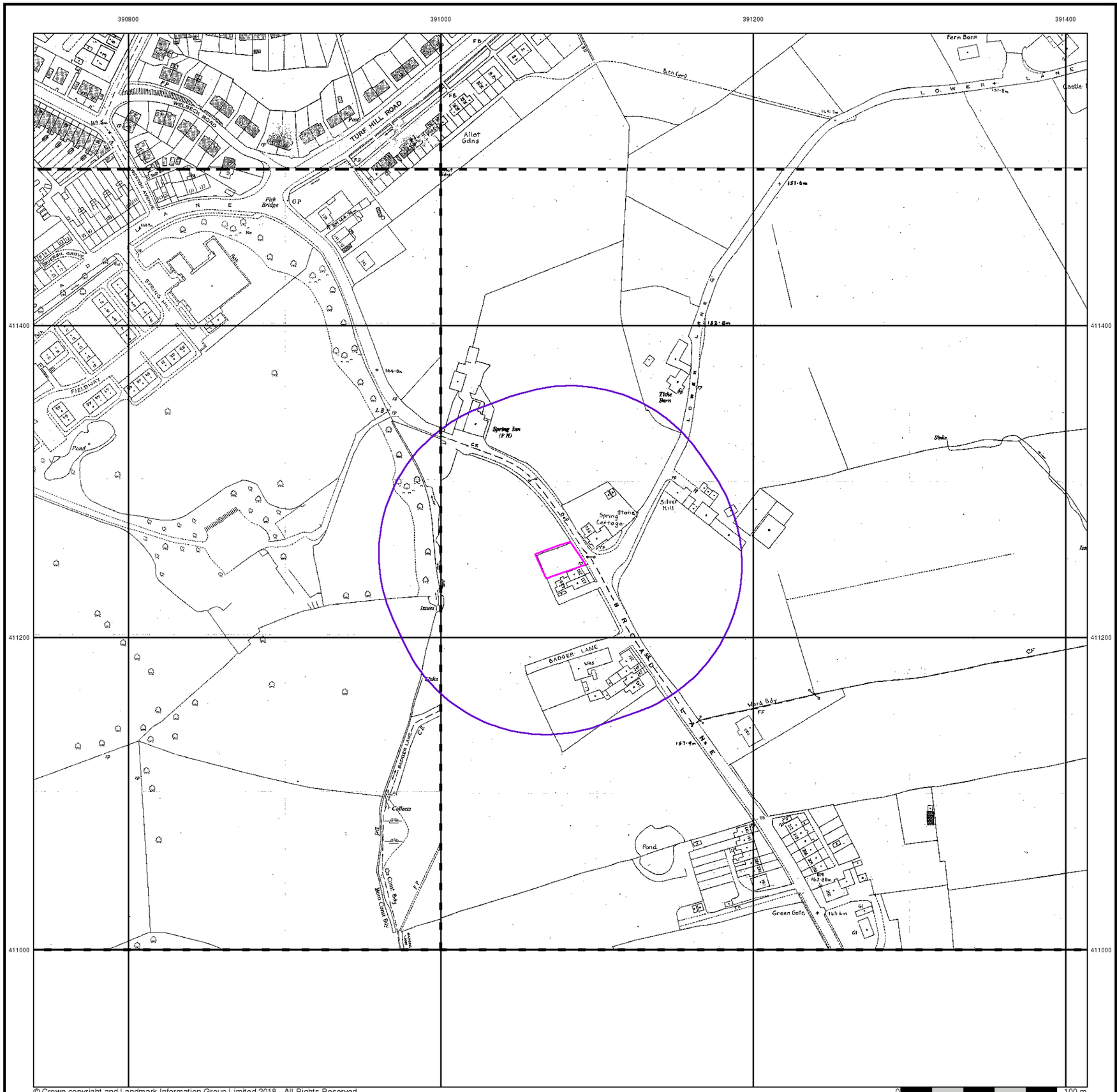
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LKC GROUP

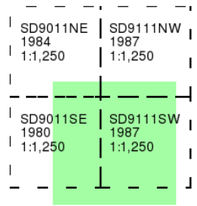
Additional SIMs

Published 1980 - 1987

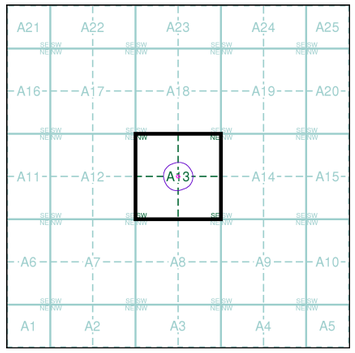
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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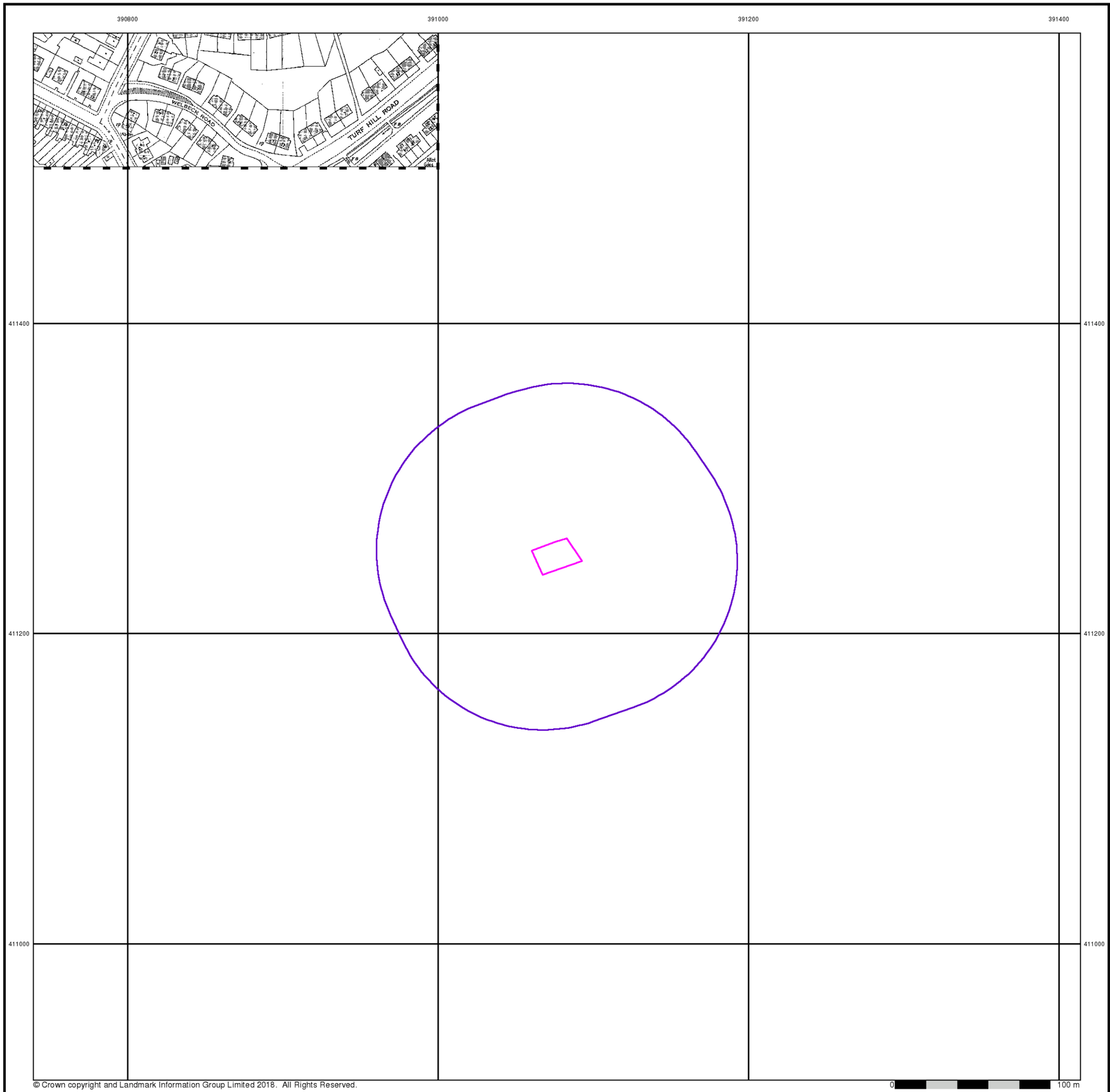

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LK GROUP

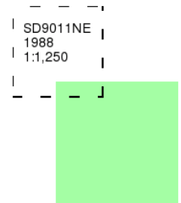
Additional SIMs

Published 1988

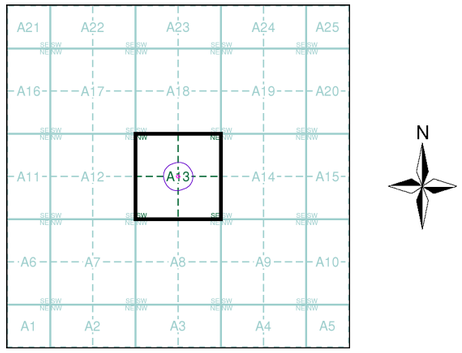
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. 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

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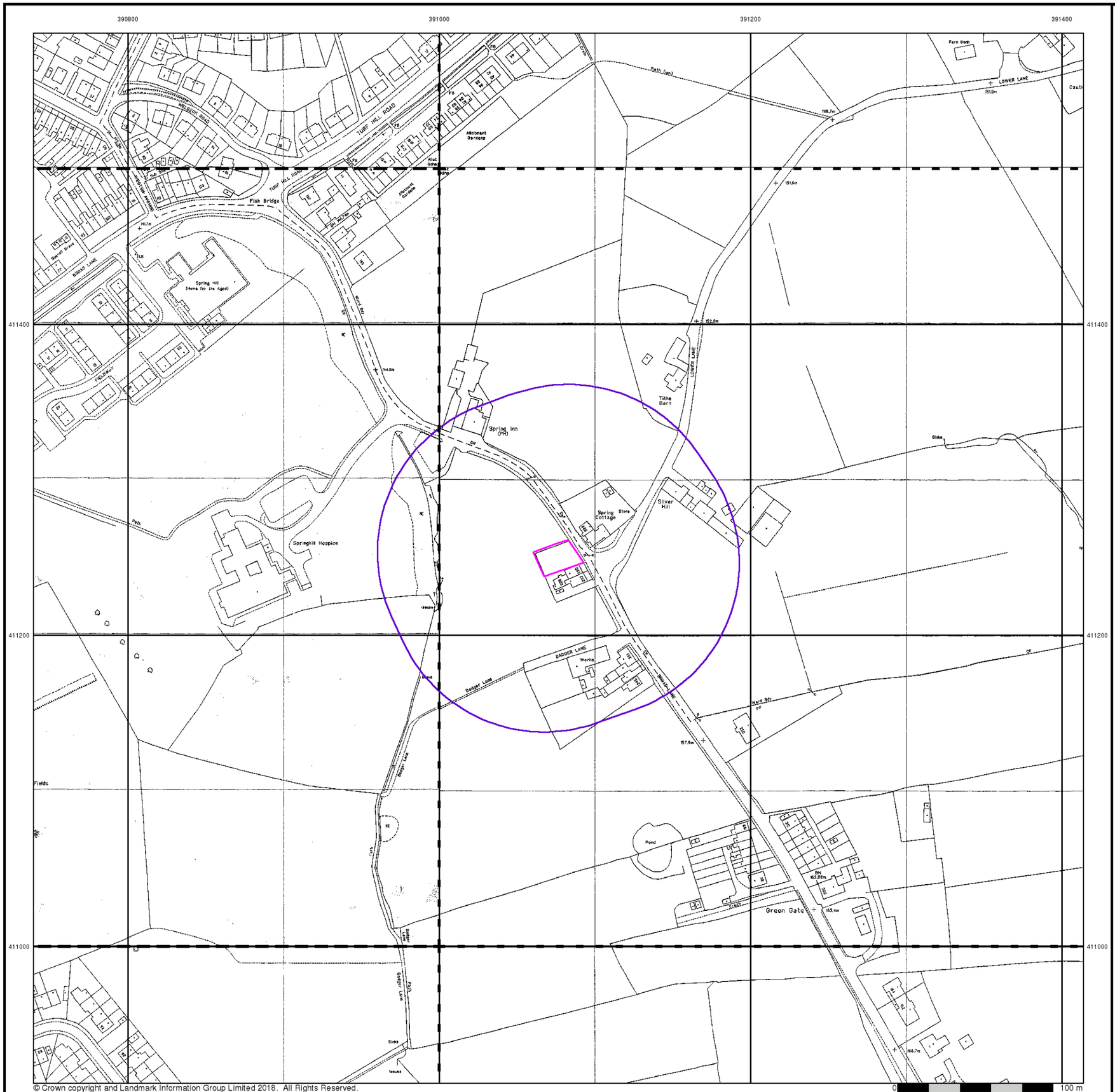


LK GROUP

Large-Scale National Grid Data

Published 1992

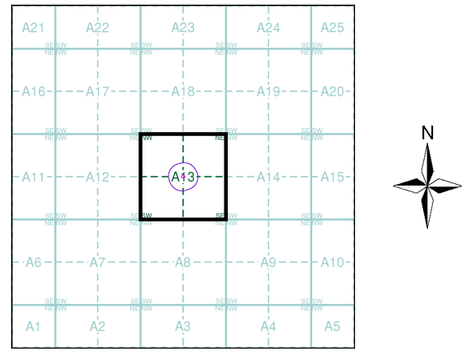
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. 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)

SD9011NE 1992 1:1,250	SD9111NW 1992 1:1,250
SD9011SE 1992 1:1,250	SD9111SW 1992 1:1,250
SD9010NE 1992 1:1,250	SD9110NW 1992 1:1,250

Historical Map - Segment A13



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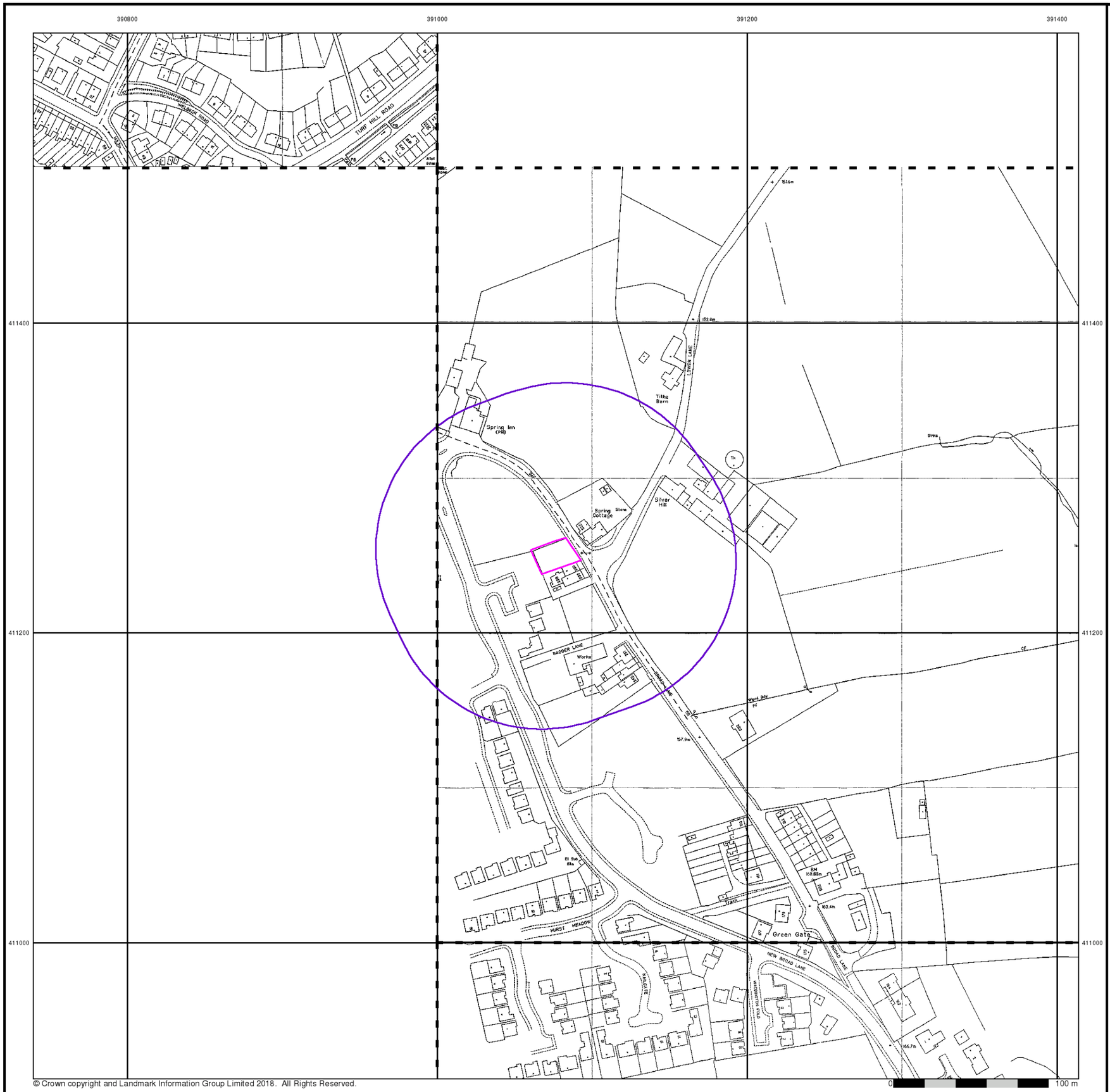

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Large-Scale National Grid Data

Published 1993 - 1994

Source map scale - 1:1,250

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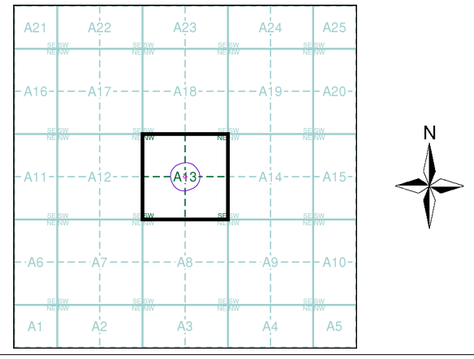
Map Name(s) and Date(s)

SD9011NE
1993
1:1,250

SD9111SW
1993
1:1,250

SD9110NW
1994
1:1,250

Historical Map - Segment A13



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LKC GROUP

Large-Scale National Grid Data

Published 1994 - 1995

Source map scale - 1:1,250

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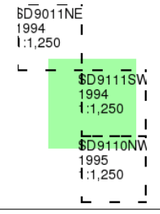
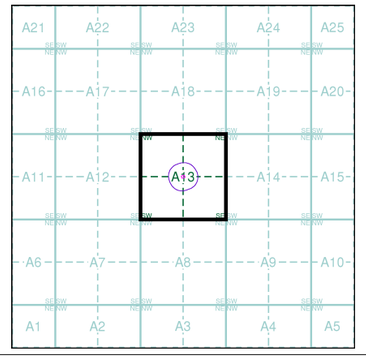
Map Name(s) and Date(s)



Historical Map - Segment A13



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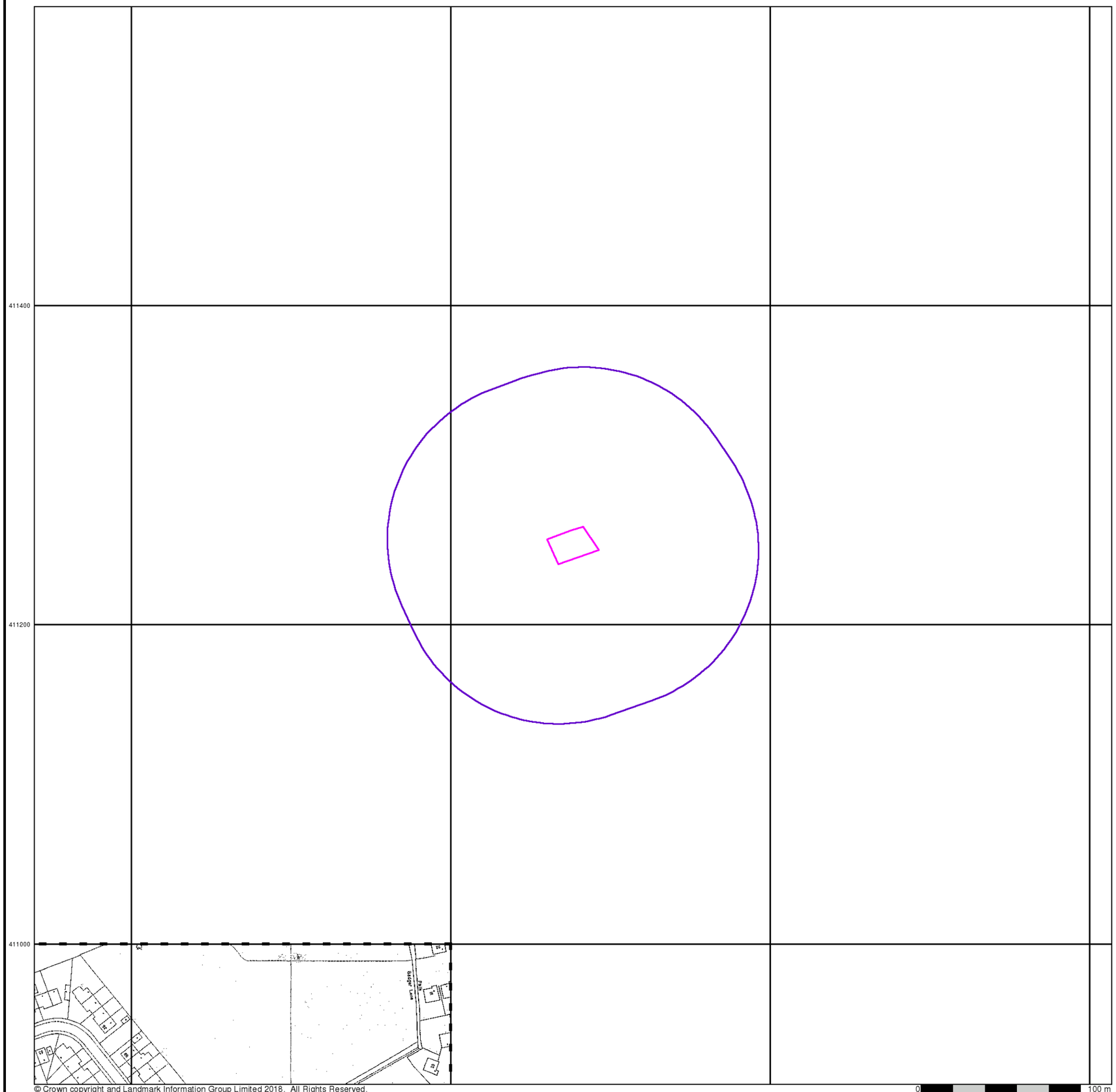


LK GROUP

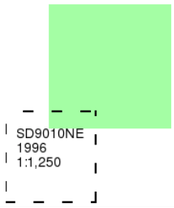
Large-Scale National Grid Data

Published 1996

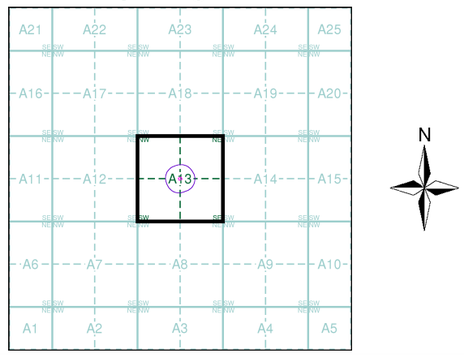
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. 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



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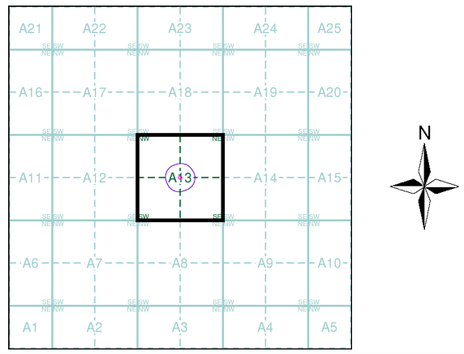
Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)
R.D. Bdy.
Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

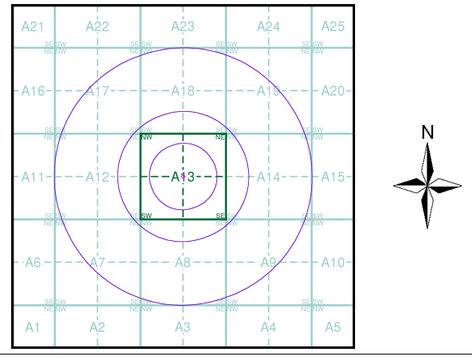
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

LK GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1851	3
Yorkshire	1:10,560	1854	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1910	6
Lancashire And Furness	1:10,560	1931	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1965 - 1968	10
Ordnance Survey Plan	1:10,000	1975 - 1979	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983 - 1988	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2018	17

Historical Map - Slice A



Order Details

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Site Details

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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

LKC GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1851	3
Yorkshire	1:10,560	1854	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1910	6
Lancashire And Furness	1:10,560	1931	7
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Ordnance Survey Plan	1:10,000	1975 - 1979	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983 - 1988	13
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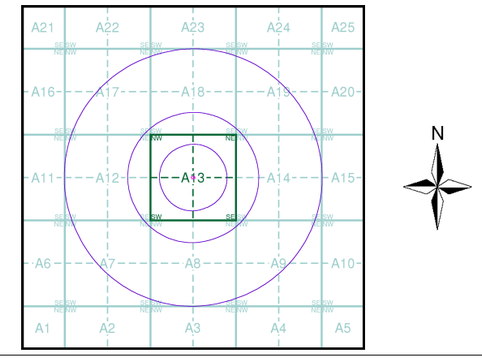
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2018	17

Russian Map - Slice A



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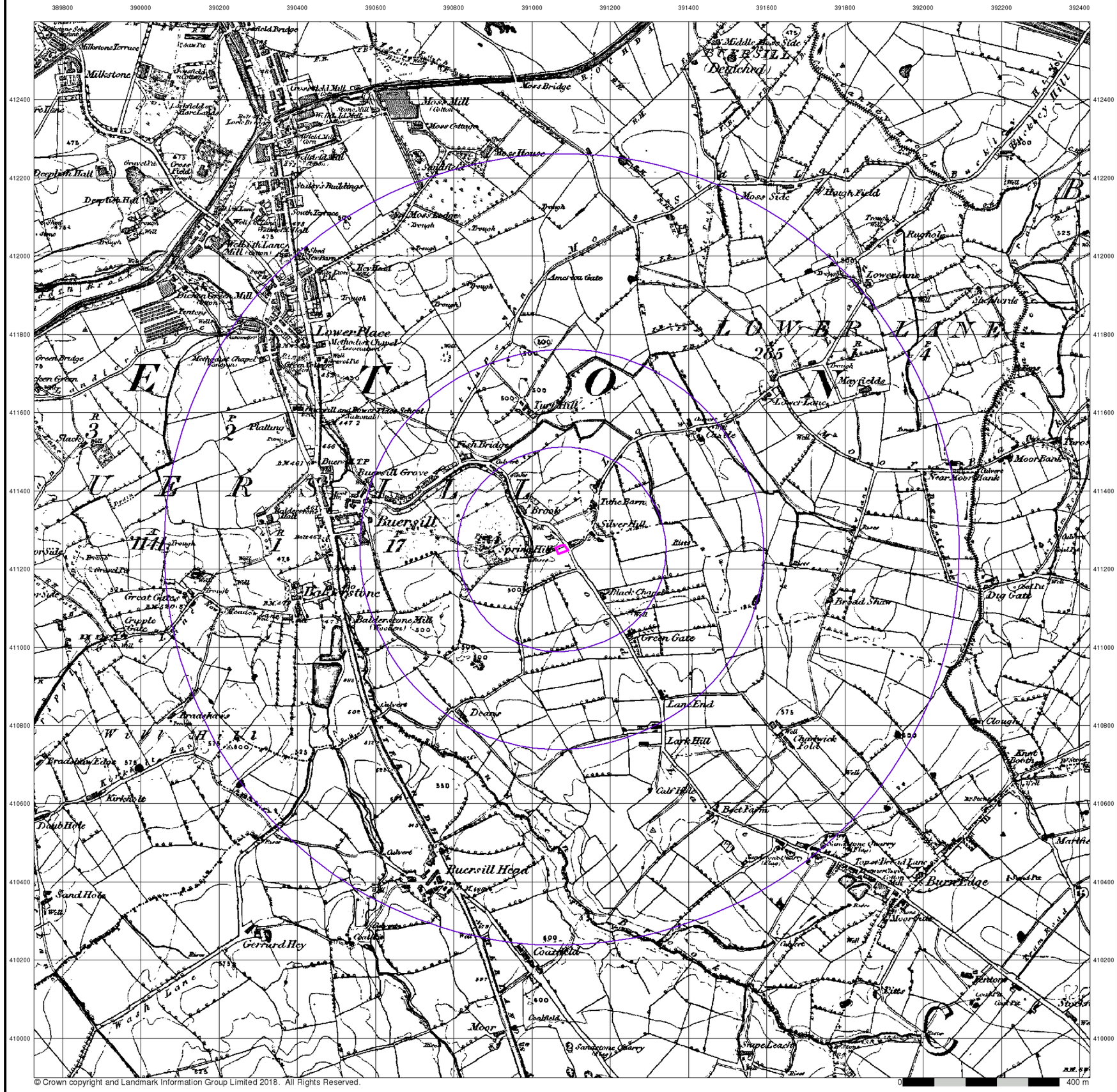
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391200
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391600
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392000
392200
392400
412400
412200
412000
411800
411600
411400
411200
411000
410800
410600
410400
410200
410000
Milkstone
Deeplish Hall
Moss Mill
Moss Bridge
Moss House
Moss Side
Rough Field
Rugholt
Lower Lane
Mayfields
Lower Place
Methodist Chapel
Burnvill and Lower Place School
Buersill
Buersill Grove
Tithe Barn
Silver Hill
Spring Hill
Fish Bridge
Turn Hill
Brook
Near Moor Bank
Moor Bank
Dig Gate
Broad Shaw
Green Gate
Black Chapel
Great Gate
Gipple Gate
Bridshaws
Bradshaw Edge
Kirkhole
Dob Hole
Sand Hole
Gerrard Hey
Coalfield
Moor
Sandstone Quarry
Lane End
Lark Hill
Calf Hole
Beet Farm
Burnvill Head
Burn Edge
Moor Gate
Clough
Knot Booth
Fitts
Stocks
Deanes
Wash Lane
American Gate
Deighton Hall
Milkstone Terrace
Green Bridge
Green Gate
Slack
Platting
Hill
Wood
Well
Trough
Pump
Tank
Chapel
Quarry
Sandstone Quarry
Tithe Barn
Calvert
Culvert
Footbridge
Boundary Stone
Telegraph Post
Gate
Stile
Path
Road
Lane
Brook
Spring
Pond
Reservoir
Sluice
Weir
Embankment
Cutting
Tunnel
Level Crossing
Station
Signal Box
Milestone
Milepost
Boundary
Parish Boundary
County Boundary
Township Boundary
Ward Boundary
Constituency Boundary
Electoral Division Boundary
Urban District Boundary
Rural District Boundary
Municipal Boundary
Civil Parish Boundary
Ecclesiastical Parish Boundary
Diocese Boundary
Archdeaconry Boundary
Deanery Boundary
Benefice Boundary
Church
Chapel
Methodist Chapel
Vicarage
Rectory
Manse
Convent
Monastery
Abbey
Priory
Friary
Hermitage
Shrine
Cross
Wayside Cross
Churchyard
Cemetery
Burial Ground
Graveyard
Tumulus
Barrow
Cairn
Standing Stone
Menhir
Stone Circle
Henge
Hillfort
Roman Fort
Roman Camp
Roman Road
Roman Villa
Roman Bath
Roman Temple
Roman Mausoleum
Roman Amphitheatre
Roman Aqueduct
Roman Bridge
Roman Milestone
Roman Inscription
Roman Coin
Roman Pottery
Roman Glass
Roman Jewellery
Roman Tools
Roman Weapons
Roman Armour
Roman Clothing
Roman Food
Roman Drink
Roman Entertainment
Roman Religion
Roman Burial
Roman Cremation
Roman Inhumation
Roman Grave Goods
Roman Coffin
Roman Sarcophagus
Roman Tombstone
Roman Epitaph
Roman Name
Roman Family
Roman Slave
Roman Freedman
Roman Citizen
Roman Soldier
Roman Officer
Roman General
Roman Emperor
Roman Empress
Roman Senator
Roman Consul
Roman Governor
Roman Procurator
Roman Prefect
Roman Legate
Roman Tribune
Roman Centurion
Roman Decurion
Roman Optio
Roman Signifer
Roman Aquilifer
Roman Imaginifer
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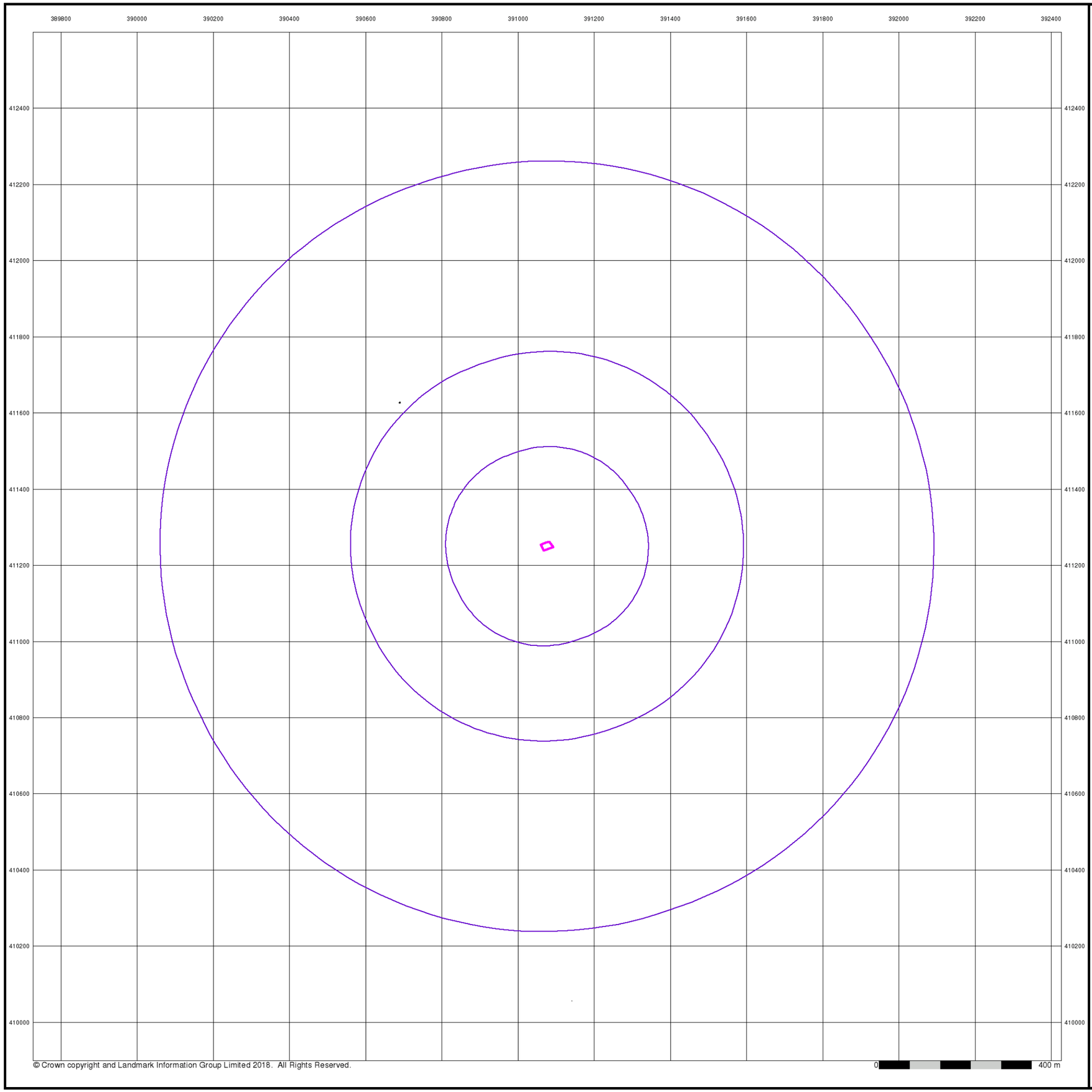

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LKC GROUP

Yorkshire

Published 1854

Source map scale - 1:10,560

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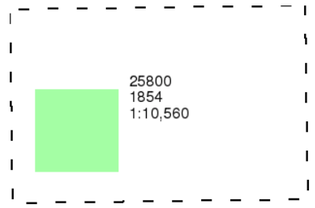
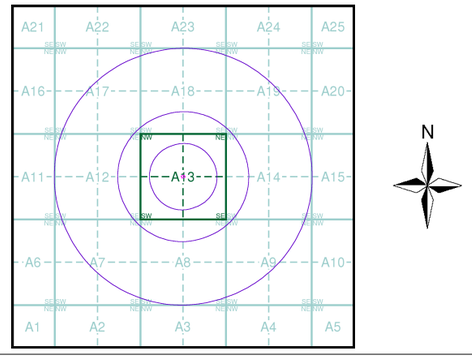
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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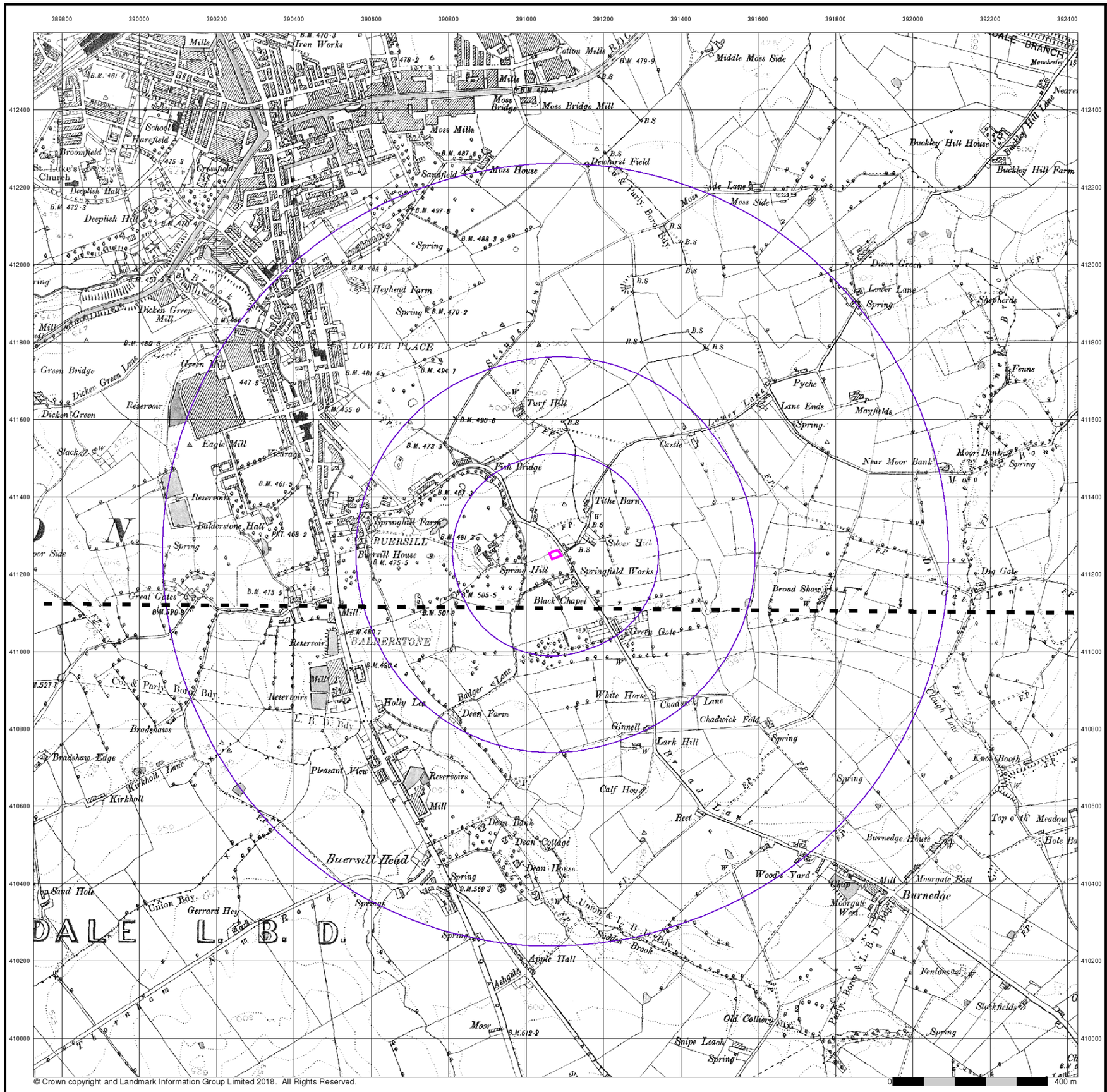
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LK GROUP

Lancashire And Furness

Published 1894

Source map scale - 1:10,560

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Map Name(s) and Date(s)

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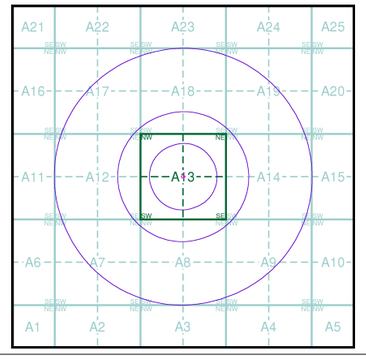
1894
1:10,560

089SW
1894
1:10,560

Historical Map - Slice A



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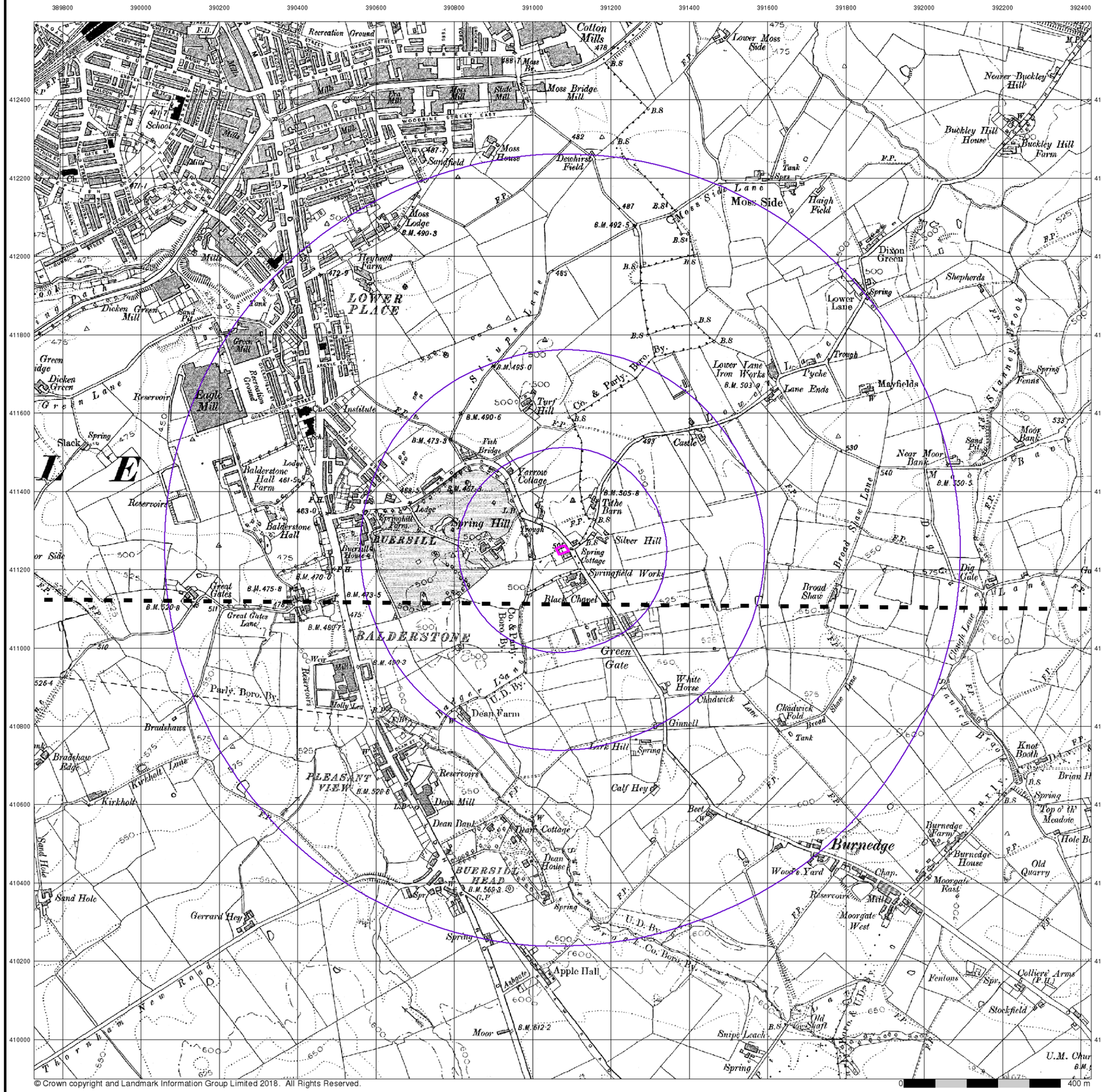
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LOWER PLACE
BUERSILL
BALDERSTONE
PLEASANT VIEW
BUERSILL HEAD
Burnedge
Spring Hill
Apple Hall
Dean Farm
Lower Lane
Lane Ends
Moss Side
Dixon Green
Cotton Mills
Recreation Ground
Eagle Mill
Dicken Green Mill
Balderstone Hall Farm
Moss Bridge Mill
Moss House
Moss Lodge
Sandfield
Dewhirst Field
Haigh Field
Buckley Hill House
Buckley Hill Farm
Neuver Buckley Hill
Lower Moss Side
Heyhead Farm
Lower Lane Iron Works
Mayfields
Near Moor Bank
Moor Bank
Yarrow Cottage
Fish Bridge
Turf Hill
Castle
Springhill Farm
Tythe Barn
Silver Hill
Springfield Works
Black Chapel
Green Gate
White Horse
Chadwick Fold
Ginnell
Lark Hill
Calf Hey
Reservoirs
Dean Mill
Dean Bank
Dean House
Bradshaws
Bradshaw Edge
Kirkholt
Sand Hole
Gerrard Hey
Asbate
Moor
Snipe Leach
Old Shaft
Fenlons
Stockfield
Colliers' Arms (P.H.)
Knot Booth
Top o' th' Meadow
Burnedge Farm
Burnedge House
Old Quarry
Moorgate East
Moorgate West
Wood's Yard
Dig Gate
Broad Shaw
Broad Shaw Lane
Clough Lane
Chadwick Lane
Moss Side Lane
Lower Lane
Slipper Lane
Green Lane
Parly. Boro. By.
U.D. By.
Co. & Parly. Boro. By.
Co. Boro. By.
Thornham New Road
Great Gates Lane
Banger Lane
Reservoir
Weir
Mill
Molly Mere
Tank
Spring
Trough
Lodge
Institute
Chapel
Sch.
Ch.
Slack
Tennis
Sand Pit
Shepherds
Recreation Ground
Great Gates
Beet Wks.
Chap.
Reservoirs
Mill
Lodge
Cottage
Farm
Barn
Works
Gate
Lane
Hill
Head
Hall
Edge
Hole
Pit
Yard
Quarry
Meadow
Booth
Fold
Shaw
Brook
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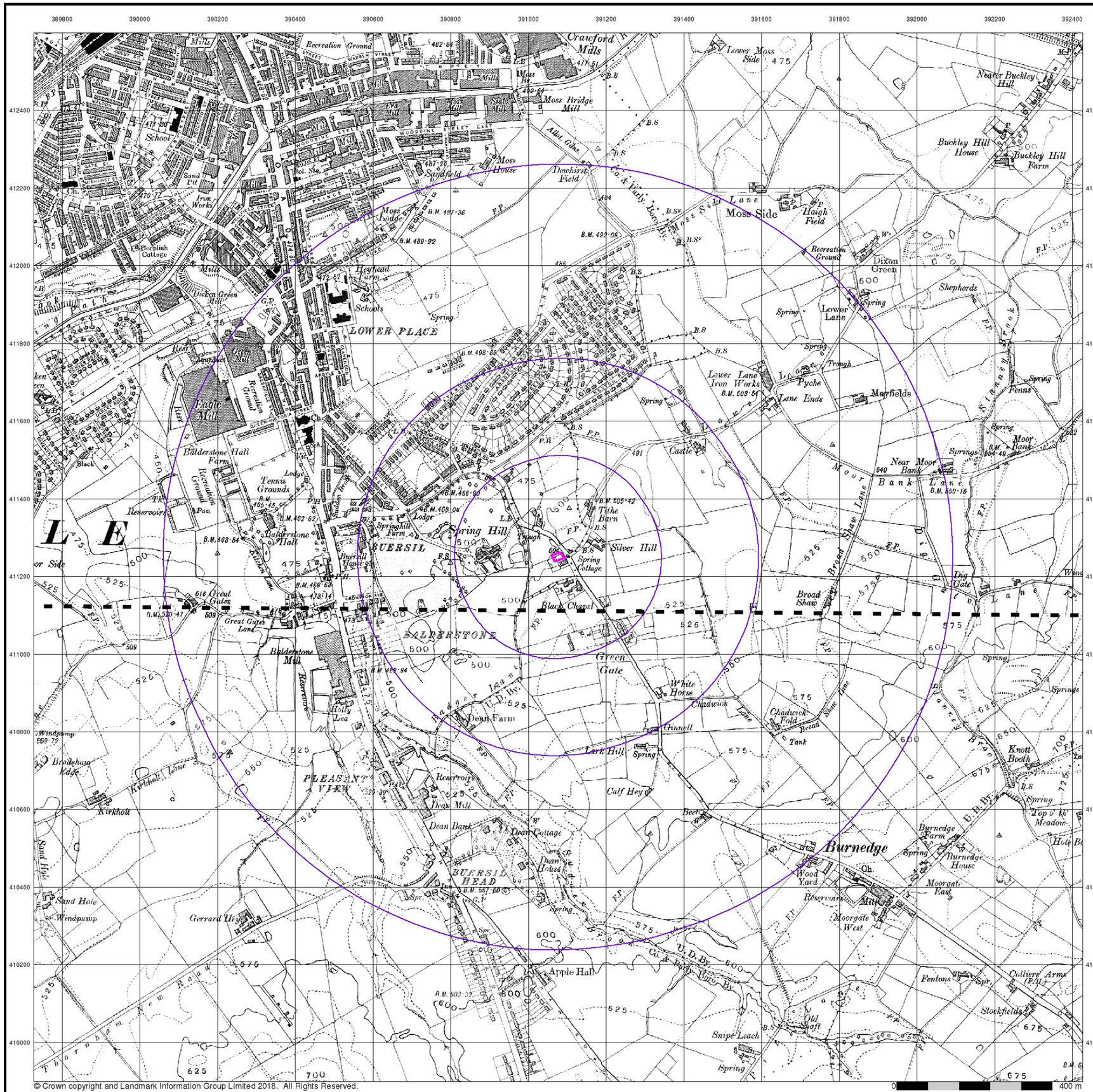
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LOWER PLACE
BUERSIL
BALDERSTONE
PLEASANT VIEW
BUERSIL HEAD
Spring Hill
Moss Side
Lower Moss Side
Burnedge
Eagle Mill
Crawford Mills
Moss Bridge Mill
Recreation Ground
Dixon Green
Lower Lane
Lower Lane Iron Works
Mayfields
Near Moor Bank
Moor Bank
Buckley Hill House
Buckley Hill Farm
Nearer Buckley Hill
Shephords
Tennis
Baldersstone Hall Farm
Baldersstone Hall
Tennis Grounds
Great Gates
Great Gates Lane
Baldersstone Mill
Green Gate
White Horse
Chadwick
Chadwick Fold
Ginnell
Dean Farm
Dean Mill
Dean Bank
Dean Cottage
Dean House
Lark Hill
Calf Hey
Knott Booth
Burnedge Farm
Burnedge House
Moorgate East
Moorgate West
Wood Yard
Apple Hall
Fenlons
Colliers Arms (P.H.)
Stockfields
Old Shaft
Snipe Leach
Broad Shaw
Broad Shaw Lane
Dig Gate
Tithe Barn
Springhill Farm
Silver Hill
Spring Cottage
Black Chanel
Deerhirst Field
Haigh Field
Sandfield
Moss House
Moss Lodge
Herdhead Farm
Schools
Castle
Springs
Trough
Pyche
Lane Ends
Tenns
Holly Lea
Windpump
Sand Hole
Kirkholt
Kirkholt Lane
Bridleway
Reservoirs
Reservoir
Iron Works
Sawa Pit
Mills
Mill
Ch.
Pav.
Lodge
Tel. Mast
Preplish Cottage
Dicken Green Barn
Gerrard House
Thornham New Road
Co. & Duchy Boro. By.
U.D.By.
Lane
Side
Road
Brow
Edge
Hill
Hey
Gate
Head
Bank
Meadow
Tank
Trough
Spring
Springs
Wood
Yard
Old
Shaft
Barn
Cottage
House
Farm
Mill
Hall
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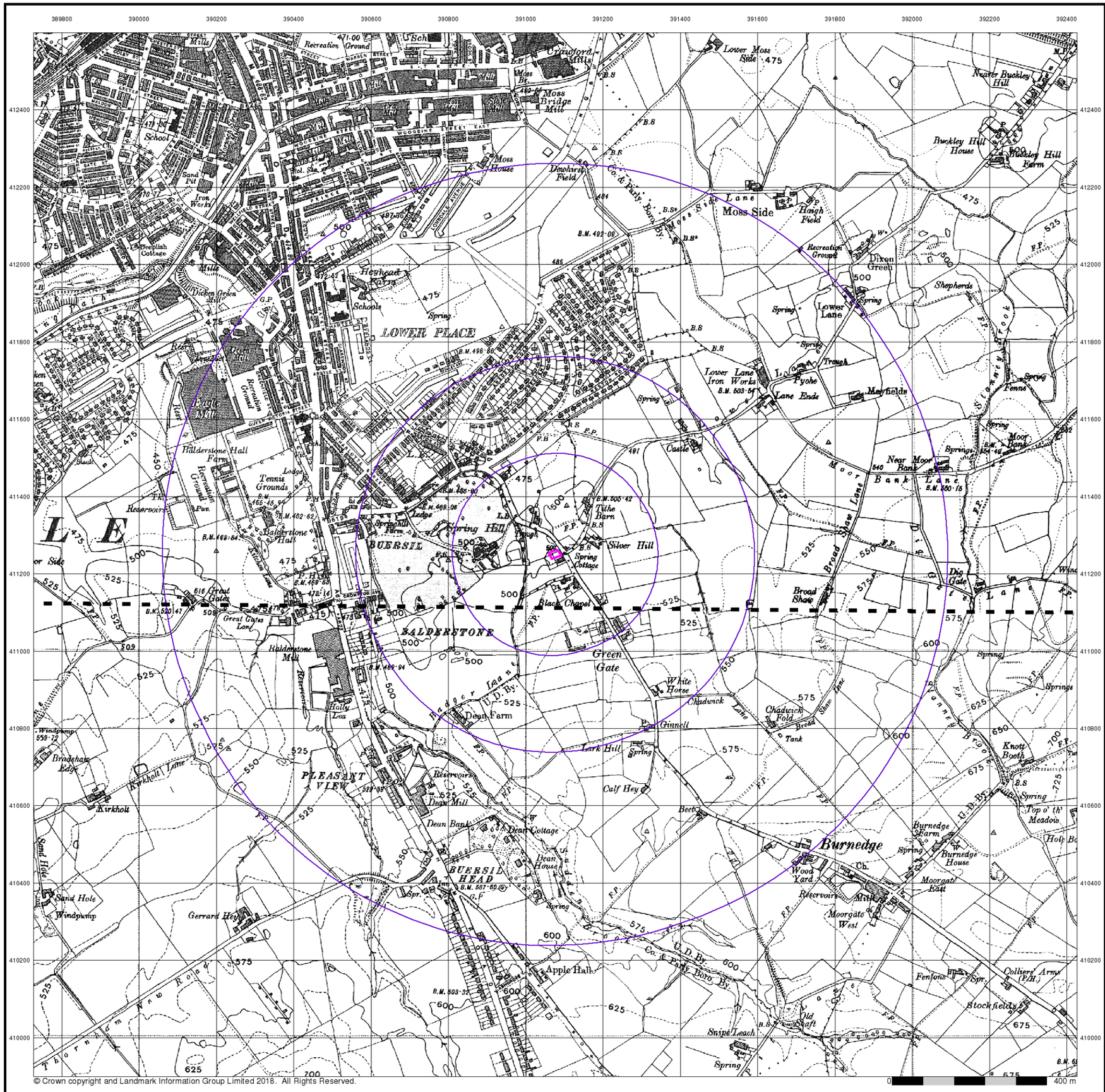
Sawa Pit
Mills
Mill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LOWER PLACE
BUERSIL
BALDERSTONE
PLEASANT VIEW
BUERSIL HEAD
Burnedge
Moss Side Lane
Broad Shaw Lane
Broad Shaw
Lower Lane
Spring Hill
Castle
Dean Farm
Dean Mill
Dean House
Dean Cottage
Apple Hall
Green Gate
Black Chapel
Lark Hill
Calf Hey
Gerrard Hey
Kirkholt
Kirkholt Lane
Thorn Lane
New Road
Baldwin Brook
Moor Bank Lane
Lower Moss Side
Moss Side Lane
Moss House
Moss Bridge Mill
Crawford Mills
Heyhead Farm
Dixon Green
Lower Lane Iron Works
Lane Ends
Meynells
Near Moor Bank
Moor Bank Lane
Buckley Hill House
Buckley Hill Farm
Nearer Buckley Hill
Shepherds
Knott Booth
Burnedge Farm
Burnedge House
Moorgate East
Moorgate West
Wood Yard
Fenfons
Colliers Arms (P.H.)
Stockfields
Old Shaft
Snipe Teach
Dig Gate
Lane Side
Haigh Field
Deephurst Field
Co. & Parly. Boro. By.
U.D. By.
Recreation Ground
Recreation Ground
Recreation Ground
Bridge Mill
Paige Mill
Iron Works
Sand Pit
Reservoir
Reservoirs
Tanks
Tank
Springs
Spring
Trough
Tennis Courts
Tennis Grounds
Lodge
Schools
Ch.
Chapel
Mills
Baldwin Hall Farm
Baldwin Hall
Baldwin Hall Mill
Hally Lea
Spring Cottage
Tithe Barn
Springhill Farm
Silver Hill
Ginnell
White Horse
Chadwick Fold
Chadwick Lane
Broad Shaw Lane
Windypiece
Windypiece
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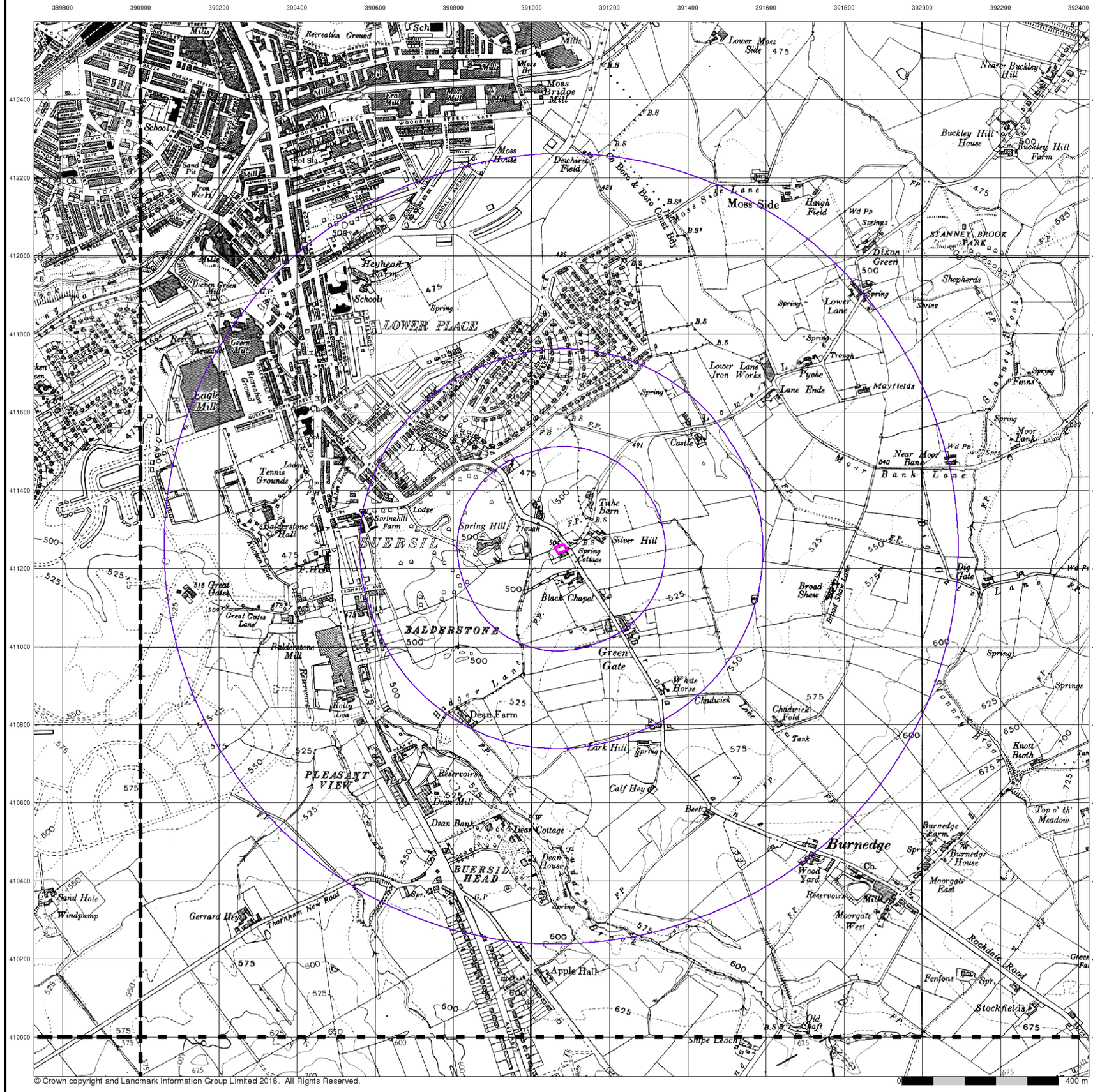

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LK GROUP

Ordnance Survey Plan

Published 1956

Source map scale - 1:10,000

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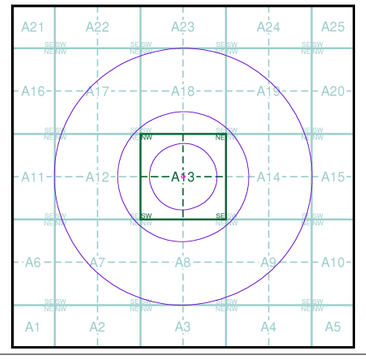
Map Name(s) and Date(s)

SD81SE 1956 1:10,560	SD91SW 1956 1:10,560
SD80NE 1956 1:10,560	SD90NW 1956 1:10,560

Historical Map - Slice A



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Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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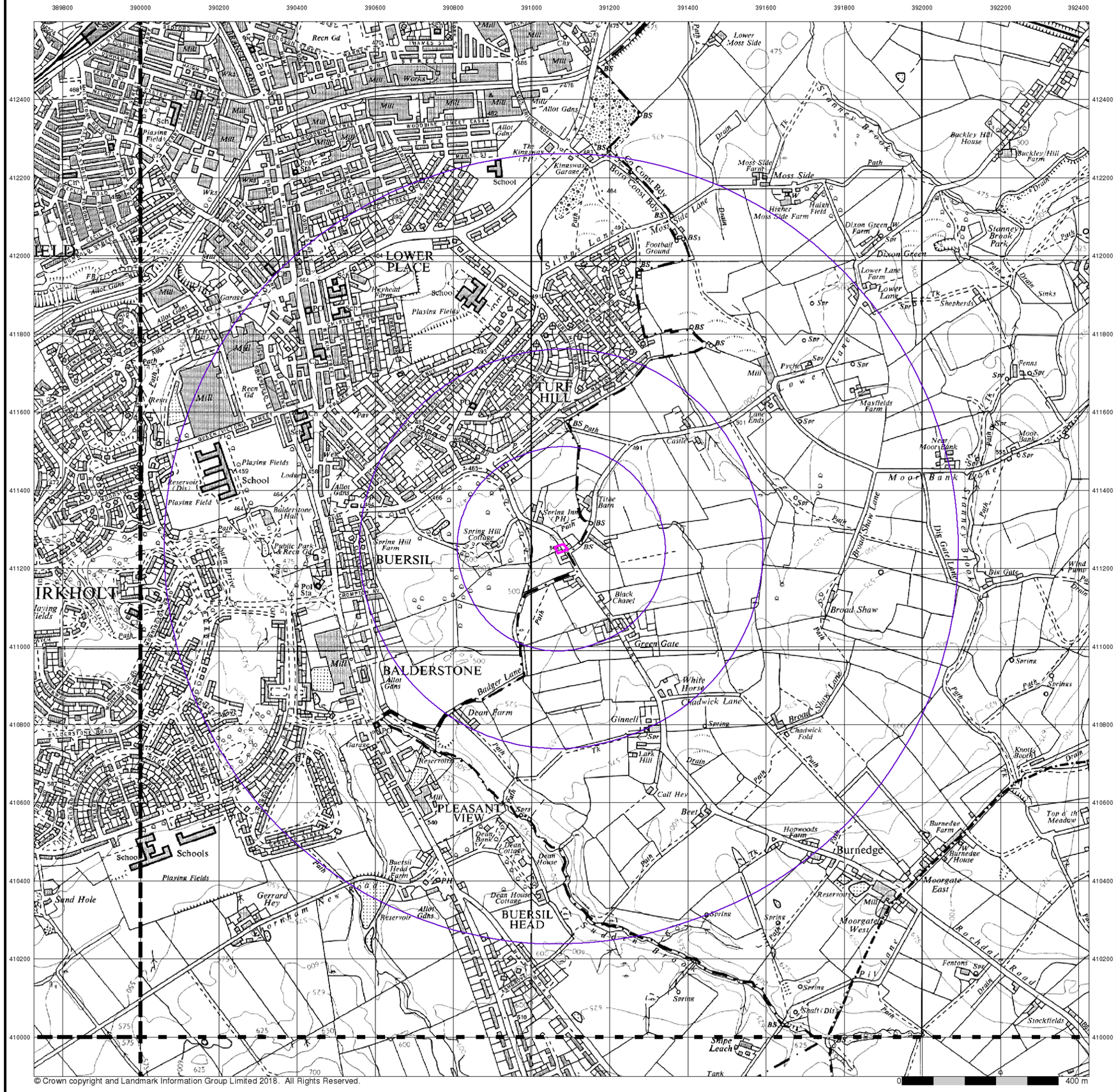

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Ordnance Survey Plan

Published 1965 - 1968

Source map scale - 1:10,000

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Map Name(s) and Date(s)

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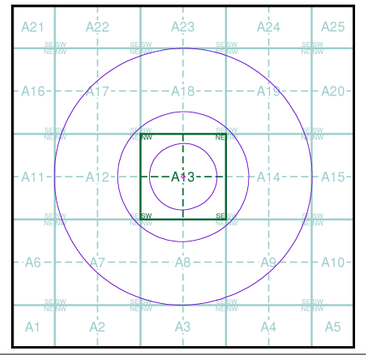
SD80NE 1965 1:10,560	SD90NW 1966 1:10,560

Historical Map - Slice A



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Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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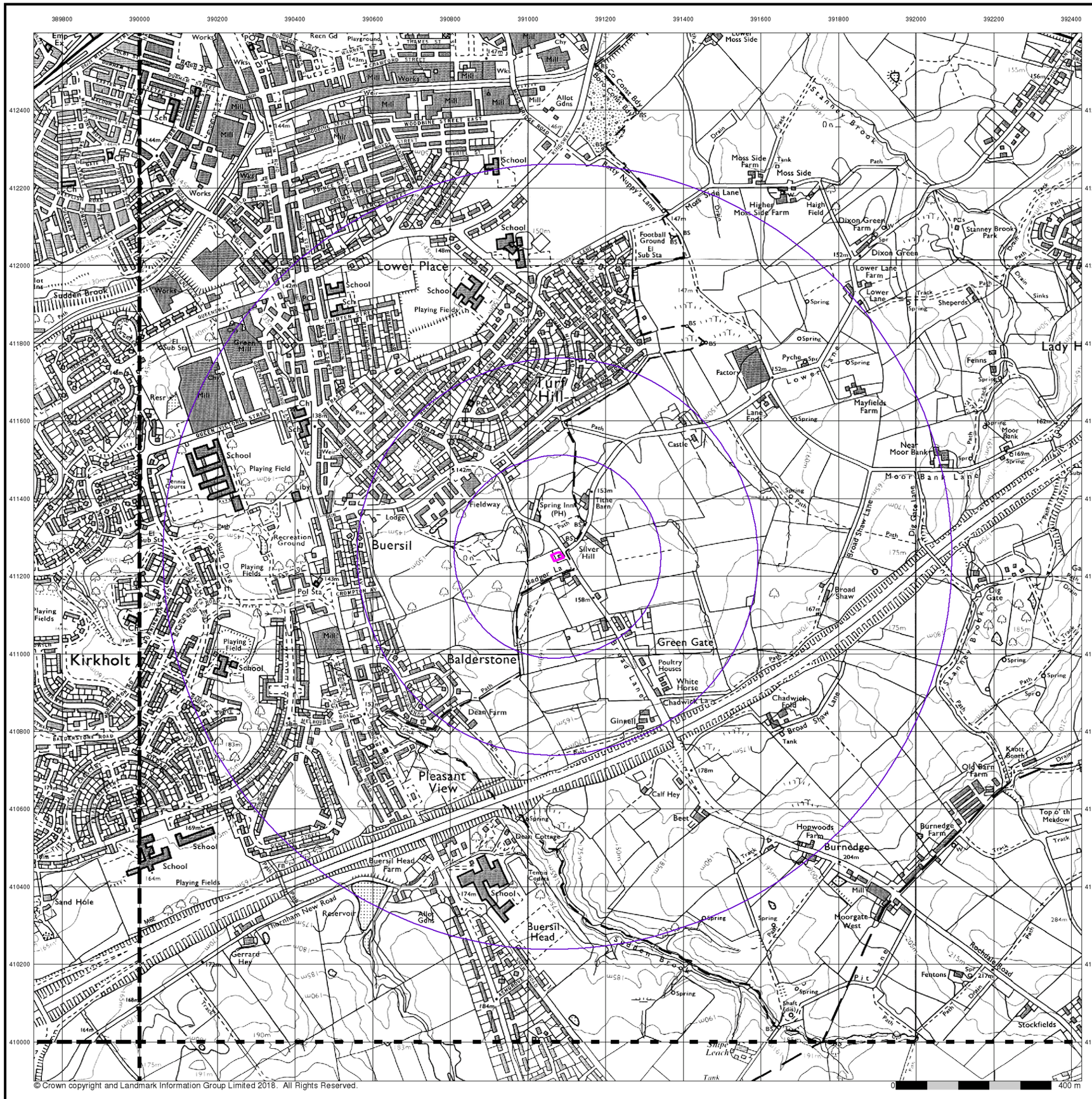
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Lower Place
Turf Hill
Buersil
Kirkholt
Balderstone
Pleasant View
Green Gate
Burnedge
Buersil Head
Lady H
Sudden Brook
Moss Side Lane
Higher Moss Side Farm
Haigh Field
Dixon Green Farm
Dixon Green
Lower Lane Farm
Lower Lane
Mayfields Farm
Near Moor Bank
Moor Bank Lane
Broad Shaw Lane
Chadwick Fold
Old Barn Farm
Hopwoods Farm
Burnedge Farm
Moorgate West
Fentons
Stockfields
Rochdale Road
Pit Lane
Thornham New Road
Reservoir
Sand Hole
Gerrard Hey
Dean Farm
Ginnell
Calf Hey
Beet
Silver Hill
Badger La
Spring Inn (PH)
Tithe Barn
Lodge
Castle
Factory
Fieldway
Recreation Ground
Playing Fields
Playing Field
School
Dennis Courts
Stanney Brook
Stanney Brook Park
Sheperds
Fenns
Moor Bank
Dig Gate
Broad Shaw
Knott Booth
Top o' th Meadow
Poultry Houses
White Horse
Chadwick La
Football Ground
El Sub Sta
Pol Sta
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Allot Gdns
Buersil Head Farm
Dean Cottage
Tennis Courts
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Lane Ends
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Lower Moss Side
Moss Side Farm
Moss Side
Stanney Brook
Old Gate Rocks
Sunny Nuppy's Lane
Broad Lane
Green Lane
Ashworth Lane
Emp Ex
Recn Gd
Playground
Allot Gdns
Coll
Co Const Bdy
Cemetery
Tank
Pond
Drain
Track
Path
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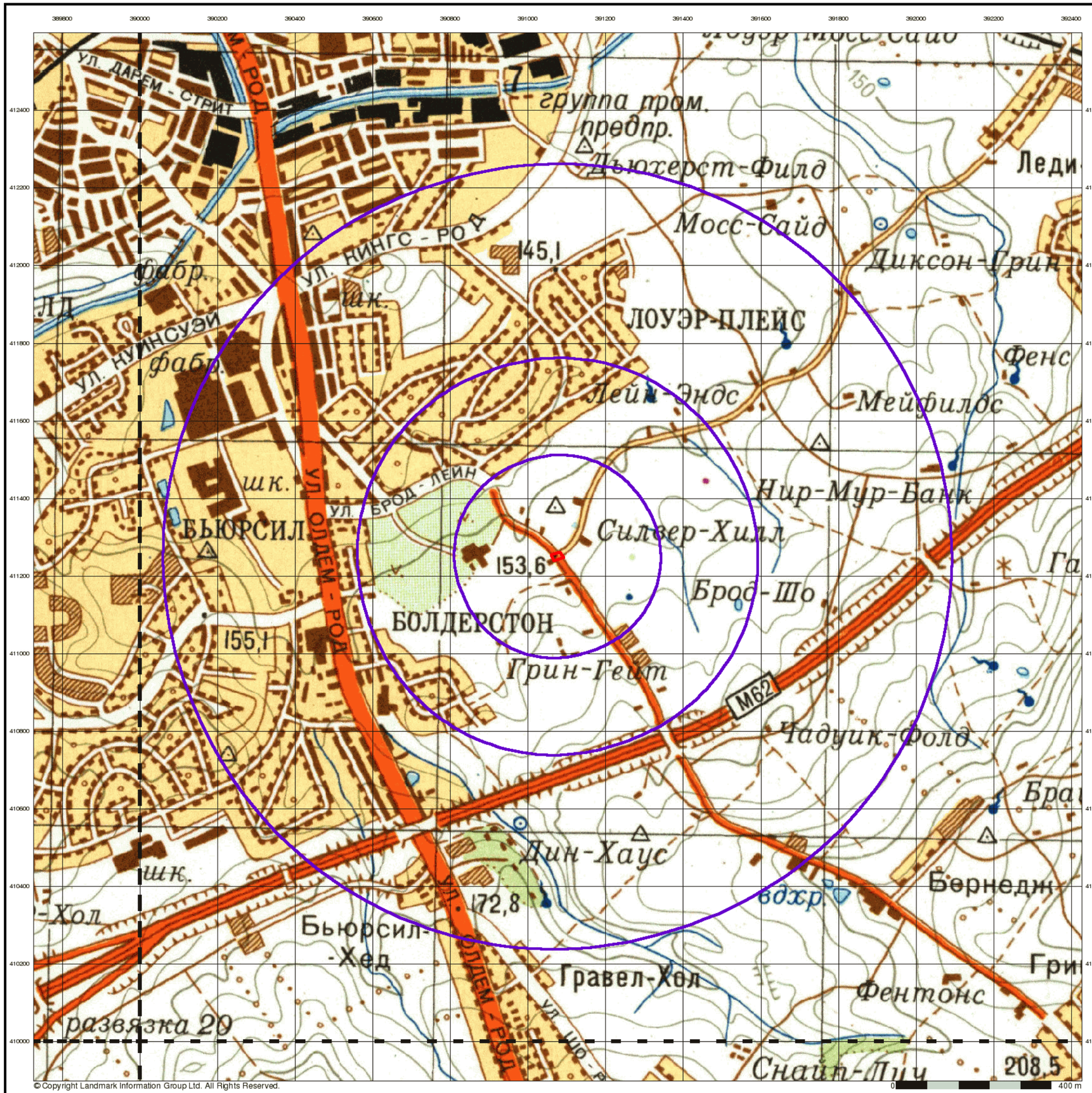

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LKC GROUP

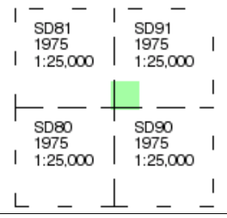
Manchester

Published 1975

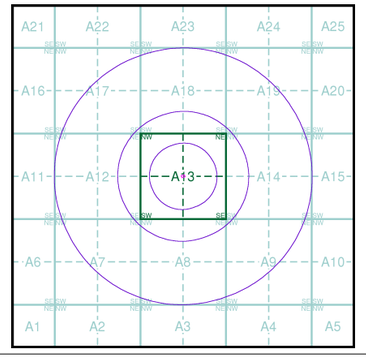
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



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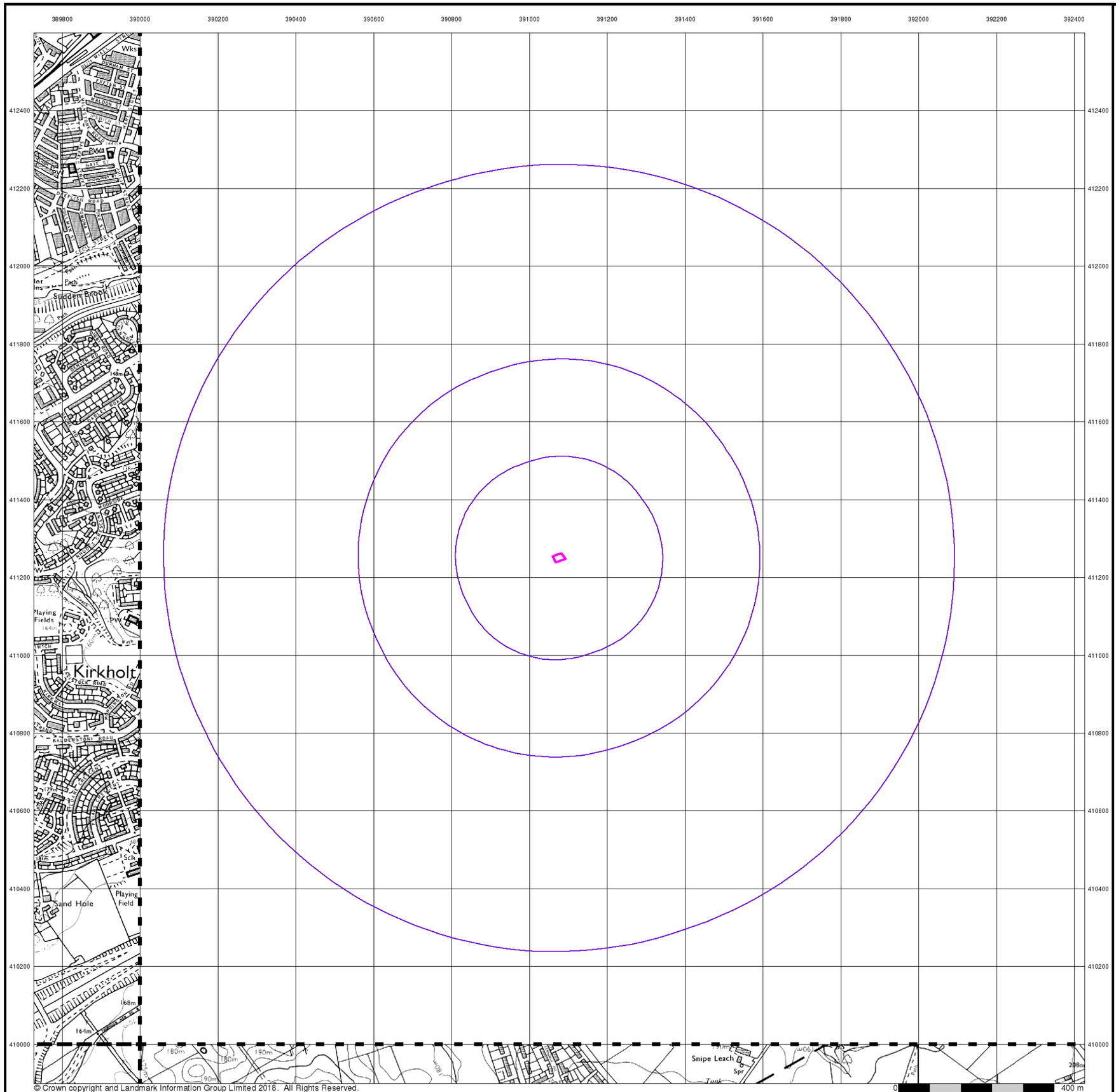

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LK GROUP

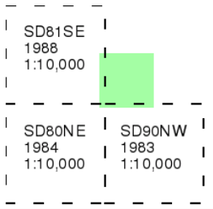
Ordnance Survey Plan

Published 1983 - 1988

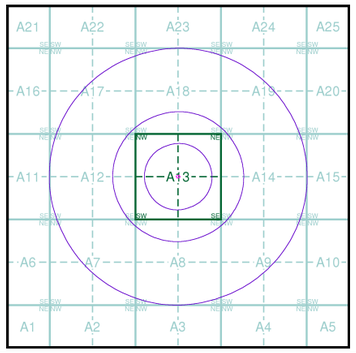
Source map scale - 1:10,000

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 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 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 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

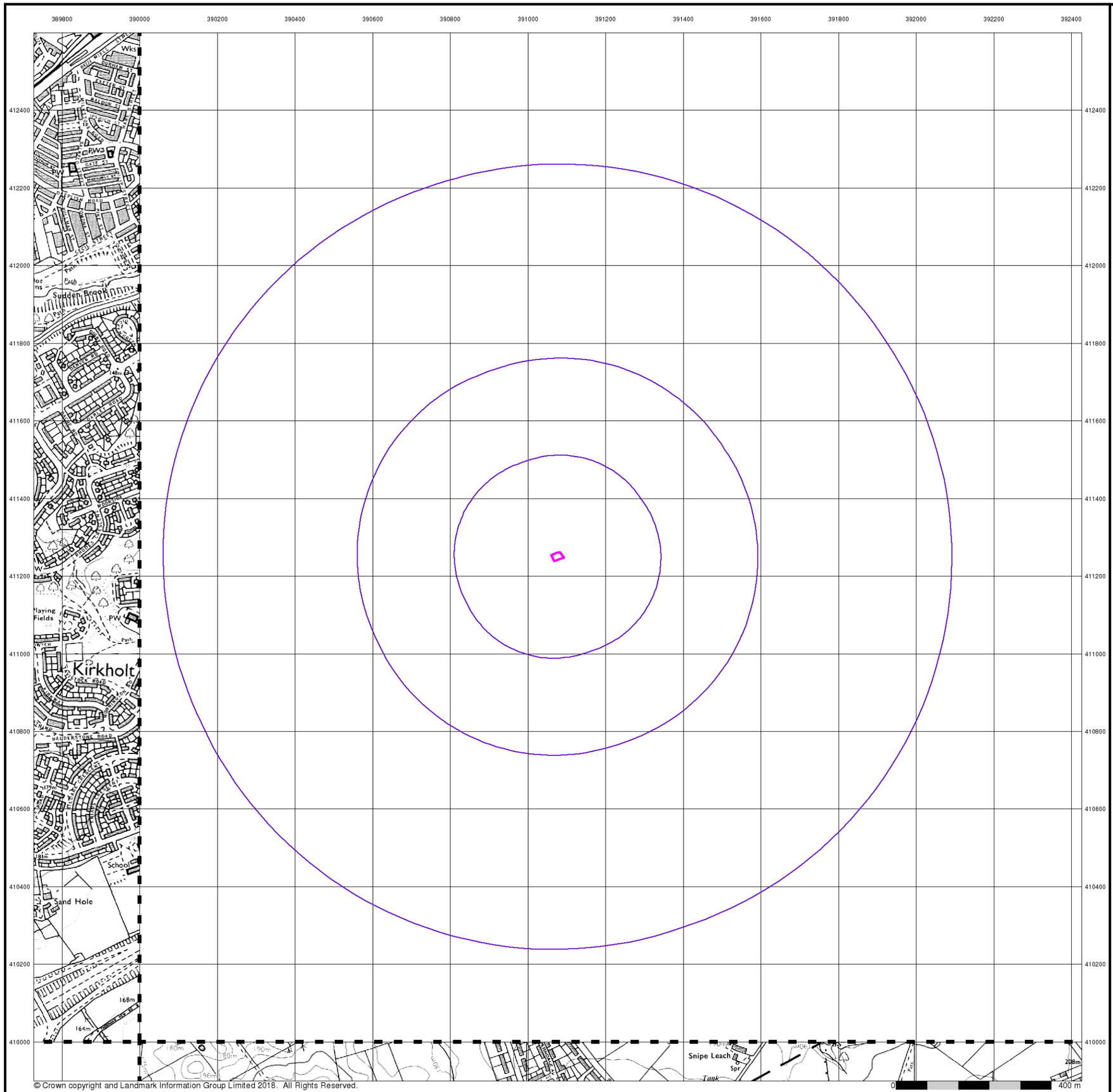
Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LK GROUP

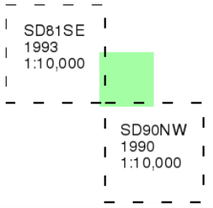
Ordnance Survey Plan

Published 1990 - 1993

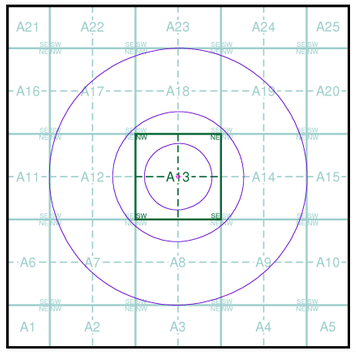
Source map scale - 1:10,000

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 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 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 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



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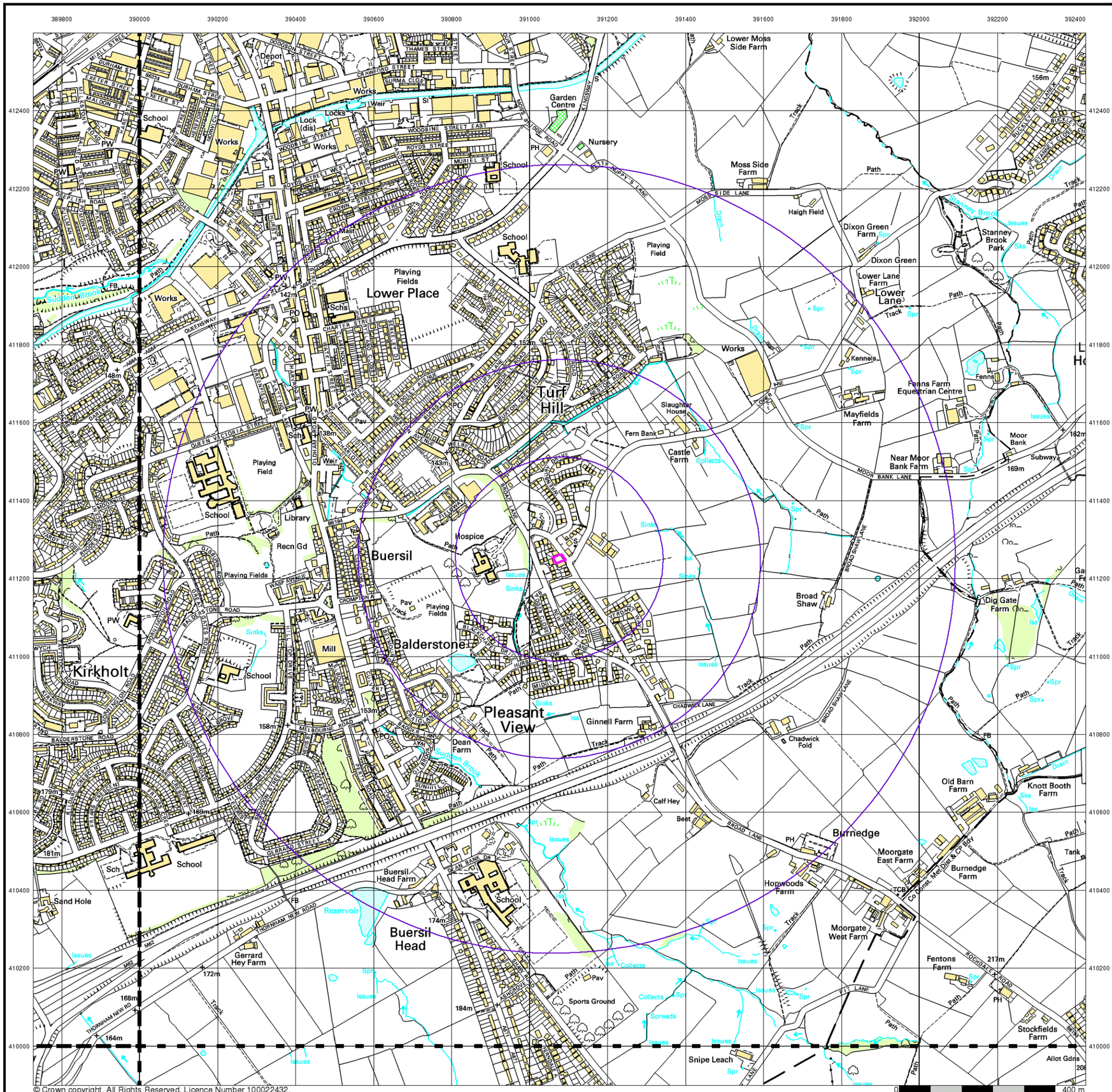

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LKC GROUP

10k Raster Mapping

Published 1999

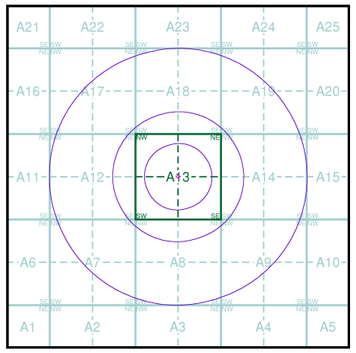
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SD81SE 1999 1:10,000	SD91SW 1999 1:10,000
SD80NE 1999 1:10,000	SD90NW 1999 1:10,000

Historical Map - Slice A



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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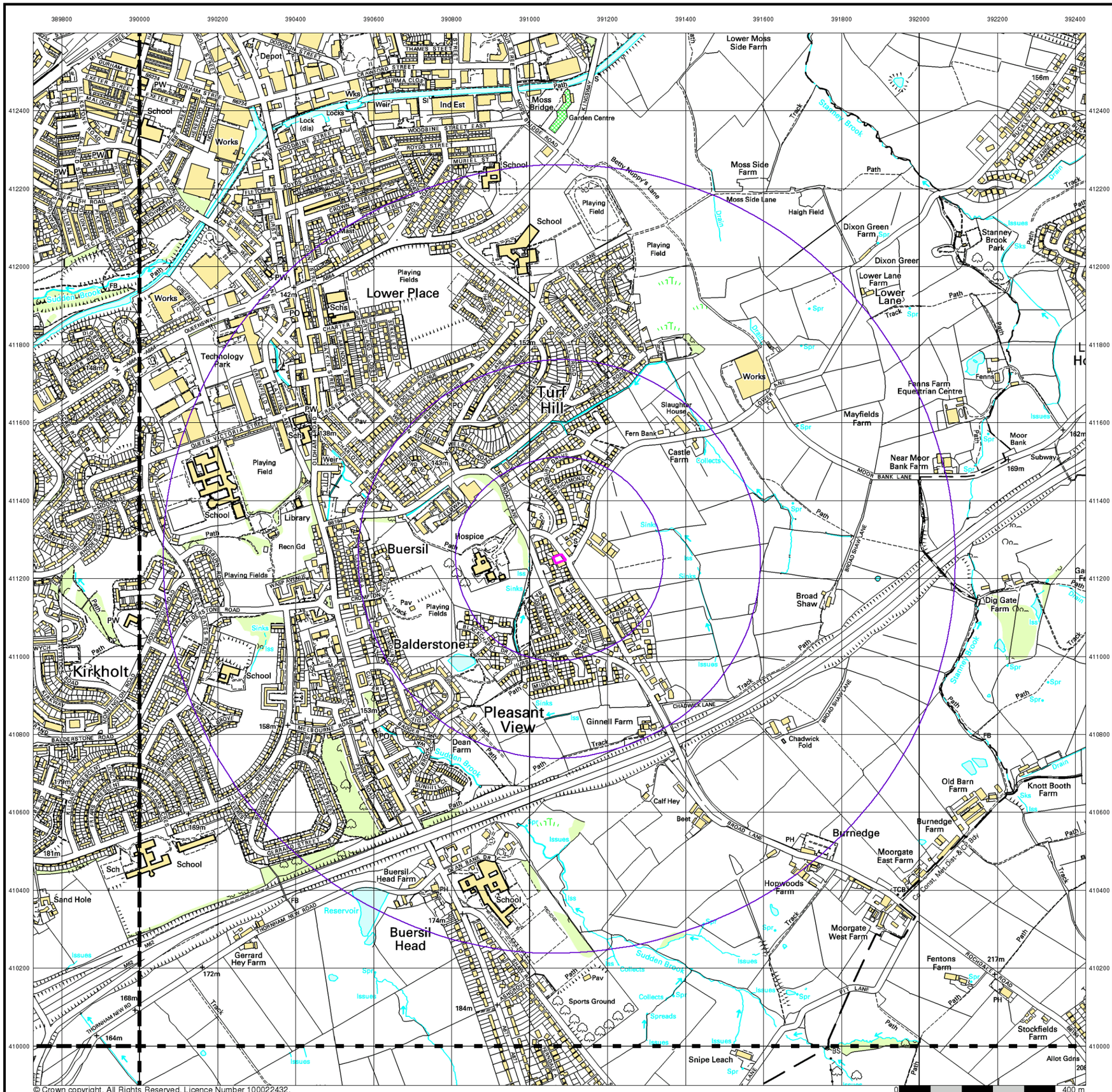

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LK GROUP

10k Raster Mapping

Published 2006

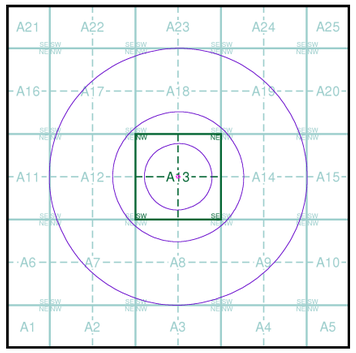
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SD81SE 2006 1:10,000	SD91SW 2006 1:10,000
SD80NE 2006 1:10,000	SD90NW 2006 1:10,000

Historical Map - Slice A



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

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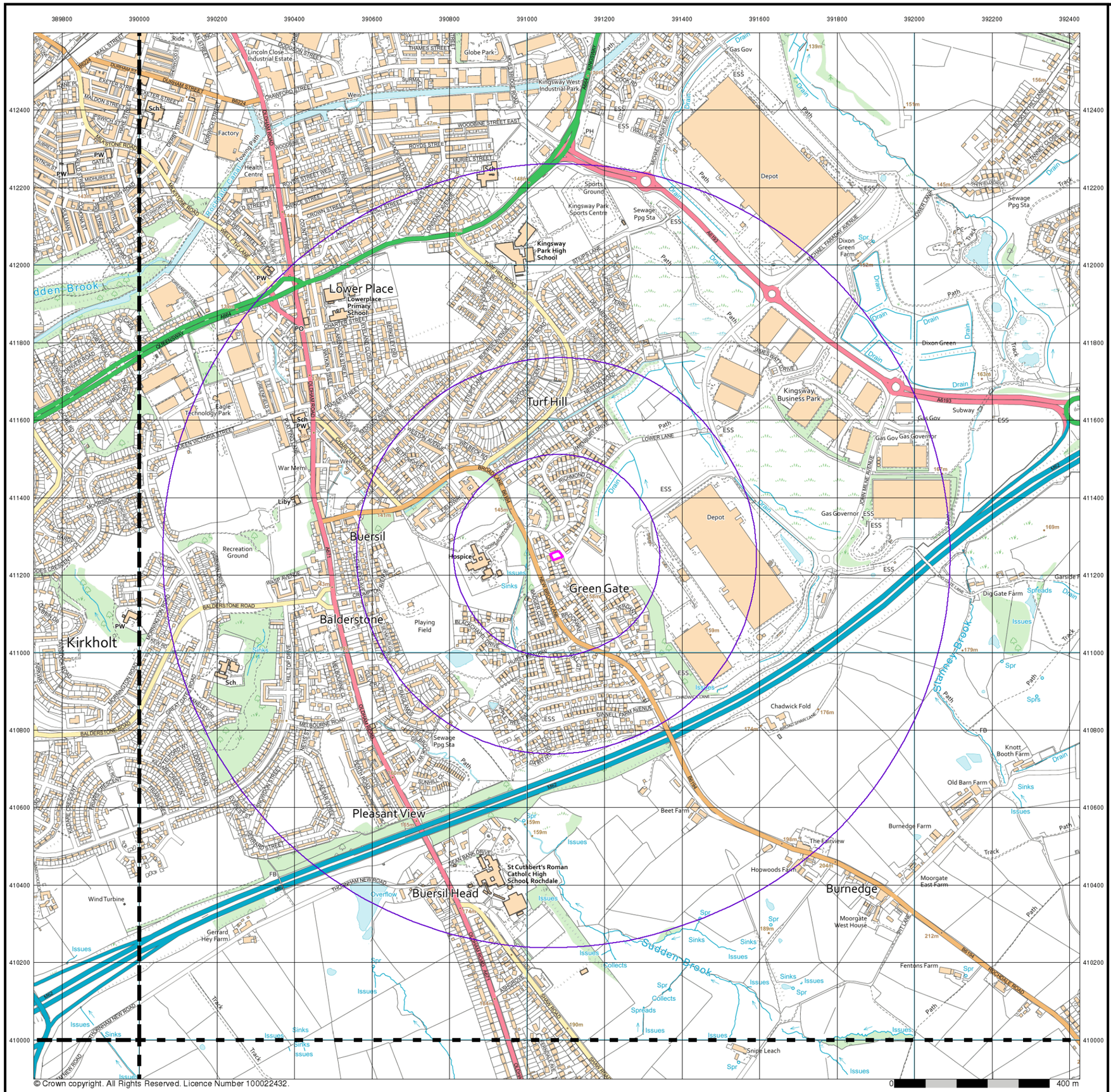

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0 400 m

LK GROUP

VectorMap Local

Published 2018

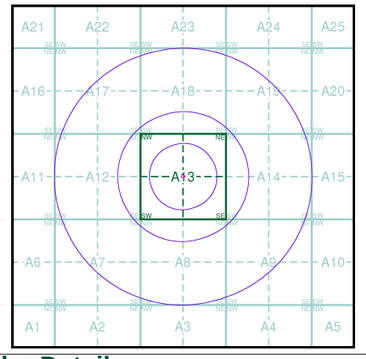
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SD81SE 2018 Variable	SD91SW 2018 Variable
SD80NE 2018 Variable	SD90NW 2018 Variable

Historical Map - Slice A



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

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Appendix B

Envirocheck Report

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
189172946_1_1

Customer Reference:
LKC 18 1211

National Grid Reference:
391080, 411250

Slice:
A

Site Area (Ha):
0.05

Search Buffer (m):
1000

Site Details:

228 Broad Lane
Rochdale
OL16 4PR

Client Details:

L Consult
LK Consult Ltd
Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	20
Hazardous Substances	22
Geological	23
Industrial Land Use	29
Sensitive Land Use	37
Data Currency	38
Data Suppliers	43
Useful Contacts	44

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 this 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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Contents

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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 3				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		3	2	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4			1	
River Quality Biology Sampling Points	pg 5				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 5			2	1 (*16)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 9	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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
OS Water Network Lines	pg 10		6	21	52

Summary

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					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 20	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 20				2
Potentially Infilled Land (Water)	pg 20		2	5	22
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)	pg 22				1
Planning Hazardous Substance Consents	pg 22				1
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 23	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 27				2
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 28	Yes	n/a	n/a	n/a
Mining Instability	pg 28	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 28	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 28	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 28	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 29		2	6	45
Fuel Station Entries	pg 33				1
Points of Interest - Commercial Services	pg 33		1		12
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 34		1	1	12
Points of Interest - Public Infrastructure	pg 36				6
Points of Interest - Recreational and Environmental	pg 36			2	
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 37				2
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					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (NW)	0	1	391076 411250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	11	1	391050 411250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	188	1	391076 411050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	208	1	391300 411250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	266	1	391200 411500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	297	1	391150 411550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	317	1	390950 411550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	340	1	391100 410900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	382	1	390900 411600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	391	1	391050 411650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	411	1	391450 411450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	438	1	391076 410800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	440	1	391050 411700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	440	1	391100 410800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	446	1	391300 411650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	446	1	391150 410800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	447	1	391000 411700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	493	1	391300 410800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	495	1	391150 410750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Orchid Pubs & Dining Limited Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Fairview Inn, Burnedge, Rochdale, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992272 Permit Version: 1 Effective Date: 10th June 1991 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Sudden Brook **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8NW (S)	564	2	390900 410700
2	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Oldham Road Ps, Off Oldham Rd, Rochdale, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016993132 Permit Version: 1 Effective Date: 17th July 1996 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Sudden Brook **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	583	2	390750 410750
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oldham Road Cso 35027 705 Oldham Road, ., Rochdale, Greater Manchester, Ol16 4rh Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0093 Permit Version: 4 Effective Date: 29th May 2018 Issued Date: 29th May 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Clvrt Sec Of Sudden Brook **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	608	2	390605 410844
3	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oldham Road Cso 35027 705 Oldham Road, ., Rochdale, Greater Manchester, Ol16 4rh Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0093 Permit Version: 3 Effective Date: 23rd June 2004 Issued Date: 23rd June 2004 Revocation Date: 28th May 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Culverted Section Of Sudden Br **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	614	2	390600 410840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oldham Road Cso 35027 705 Oldham Road, ., Rochdale, Greater Manchester, Ol16 4rh Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01ROC0093 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 22nd June 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Sudden Brook **Status:** **Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	620	2	390610 410820
3	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oldham Road Cso 35027 705 Oldham Road, ., Rochdale, Greater Manchester, Ol16 4rh Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0093 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status:** **Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	620	2	390610 410820
4	**Local Authority Pollution Prevention and Controls** Name: Dean Service Station Location: Oldham Road, Balderstone, ROCHDALE, Lancashire, OL16 4RH Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: 99/09 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status:** **Authorised** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	685	3	390561 410778
5	**Local Authority Pollution Prevention and Controls** Name: Commercial Contract Engineers Location: Eagle Technology Park, Queensway, Rochdale, Ol11 1tq Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: 47/06 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status:** **Authorised** Positional Accuracy: Manually positioned to the address or location	A17SW (W)	984	3	390136 411590
	Nearest Surface Water Feature	A13SW (W)	60	-	391001 411249
6	**Pollution Incidents to Controlled Waters** Property Type: Agriculture: Below Ground Slurry Store Location: Silverhill Farm, Lower Lane, ROCHDALE, Lancashire Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Dilute Slurry / Dirty Water Note: Not Supplied Incident Date: 1st June 1999 Incident Reference: 26499 Catchment Area: Rochdale Stw Stream Receiving Water: River Stretch (Freshwater) Cause of Incident: Structural Failure : Pipe Failure (Above Ground) Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13NE (E)	120	2	391200 411300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Pollution Incidents to Controlled Waters** Property Type: Cattle (Dairy) Farming: Other Location: Lower Lane, River Rochdale Authority: Environment Agency, North West Region Pollutant: Cattle Yard Washings Note: Slurry Running Down Road Incident Date: 23rd April 1998 Incident Reference: SO981047 Catchment Area: Roch Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	182	2	391200 411400
8	**Pollution Incidents to Controlled Waters** Property Type: Industrial: Other Location: Rear Turf Hill Road , ROCHDALE Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Abbatoir Waste; Sudden Brook; Abbotoir Waste Incident Date: 10th June 1997 Incident Reference: 97621040 Catchment Area: Roch Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	240	2	391100 411500
9	**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: Jackle Brook Incident Date: 25th October 1995 Incident Reference: 95622626 Catchment Area: Roch Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	349	2	391000 411600
10	**Pollution Incidents to Controlled Waters** Property Type: Textile industry Location: Washings From , Vitaluxan, Entering Watercourse Authority: Environment Agency, North West Region Pollutant: Chemicals - Other Organic Note: Sudden Brook; Pva Adhesive Incident Date: 15th October 1997 Incident Reference: 97621796 Catchment Area: Roch 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	A18SE (NE)	461	2	391400 411595
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Stanney Brook Incident Date: 26th November 1992 Incident Reference: 93620060 Catchment Area: Roch Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	610	2	391700 411300
	River Quality Name: Sudden Bk GQA Grade: River Quality B Reach: Qsl At Balderstone To Roch Estimated Distance (km): 4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A12NE (W)	441	2	390620 411253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**River Quality Biology Sampling Points** Name: Sudden Beck Reach: Qsl At Balderstone To Roch Estimated Distance: 4.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade F - Bad Year: 1995 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2000 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2002 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2003 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2004 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2005 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2006 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2007 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2008 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2009 GQA Grade: River Quality Biology GQA Grade D - Fair	A7NE (SW)	782	2	390500 410700
13	**Water Abstractions** Operator: H Sanderson Licence Number: 2569002060 Permit Version: 100 Location: Well At Castle Farm, Lower Lane, Milnrow Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1 Yearly Rate (m3): 249 Details: Castle Farm, Lower Lane, Milnrow Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	397	2	391400 411500
14	**Water Abstractions** Operator: J Hartle Licence Number: 2569002159 Permit Version: 100 Location: Well At Farm Lower Lane Milnrow Rochdale Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 32 Yearly Rate (m3): 5123 Details: Farm And Slaughter House, Lower Lane Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	464	2	391400 411600
15	**Water Abstractions** Operator: S Croston Licence Number: 2569002086 Permit Version: 100 Location: Well At Broadshaw Farm, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2 Yearly Rate (m3): 830 Details: Broadshaw Farm, Milnrow Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	723	2	391800 411100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Dunphy Combustion Ltd Licence Number: 2569002178 Permit Version: 101 Location: Catchpit Fed By Surface Drainage At Premises, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Queensway, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th February 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	1020	2	390200 411800
	Water Abstractions Operator: Dunphy Oil & Gas Burners Ltd Licence Number: 2569002178 Permit Version: 100 Location: Catchpit Fed By Surface Drainage At Premises, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 34 Yearly Rate (m3): 2318 Details: Premises, Queensway, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th March 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	1020	2	390200 411800
	Water Abstractions Operator: J & J Makin Ltd. Licence Number: 2569002097 Permit Version: Not Supplied Location: Rochdale Canal, Moss Bridge Road, ROCHDALE, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 9 Yearly Rate (m3): 3410 Details: Licence Status: Lapsed 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	A23SW (N)	1154	2	390900 412400
	Water Abstractions Operator: Sealocrete Pla Ltd Licence Number: 2569002107 Permit Version: 100 Location: Rochdale Canal At Queensway,Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 45 Yearly Rate (m3): 10456 Details: Dicken Green Mill, Queensway Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	1217	2	390070 411960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sealocrete Pla Ltd Licence Number: 2569002107 Permit Version: 100 Location: Rochdale Canal At Queensway,Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Dicken Green Mill, Queensway Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	1217	2	390070 411960
	Water Abstractions Operator: Riggs Ltd Licence Number: 2569002113 Permit Version: Not Supplied Location: Rochdale, ROCHDALE, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 27 Yearly Rate (m3): 4319 Details: Rochdale Canal 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	A22SE (N)	1236	2	390600 412400
	Water Abstractions Operator: Rochdale Sheet Metal Co Ltd Licence Number: 2569002100 Permit Version: 100 Location: Jackwell Fed By Rochdale Canal@ Premises,Globe Machine Works Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 7 Yearly Rate (m3): 1023 Details: Premises At Globe Machine Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1253	2	390900 412500
	Water Abstractions Operator: Mr R Cryer Licence Number: 2569002204 Permit Version: 100 Location: Borehole At Premises, Old Barn Farm,Burnedge, Rochdale Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1659 Details: Premises At Old Barn Farm, Burnedge Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (SE)	1283	2	392200 410600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: J & J Makin Convertors Ltd Licence Number: 2569002076 Permit Version: 100 Location: Rochdale Canal At Rochdale, Lancs Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 391 Yearly Rate (m3): 136380 Details: Premises At Norwich Street, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SW (NW)	1294	2	390300 412300
	Water Abstractions Operator: The Secretary Licence Number: 2569002064 Permit Version: 100 Location: R Beal At Newhey, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 2955 Yearly Rate (m3): 327312 Details: Bentgate Street, Newhey, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1960	2	393000 411695
	Water Abstractions Operator: Ellenroad Trust Ltd Licence Number: 2569002064 Permit Version: 103 Location: R Beal At Newhey, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th January 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	393000 411700
	Water Abstractions Operator: Ellenroad Trust Ltd Licence Number: 2569002064 Permit Version: 101 Location: R Beal At Newhey, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bentgate Street, Newhey, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	393000 411700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ellenroad Trust Ltd Licence Number: 2569002064 Permit Version: 102 Location: R Beal At Newhey, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	393000 411700
	Water Abstractions Operator: Sun Chemical Ltd Licence Number: 2569002233 Permit Version: 102 Location: R Beal At Milnrow Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Ellenroad Ring Mill Site Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	393000 411700
	Water Abstractions Operator: Coates Lorilleux Licence Number: 2569002233 Permit Version: 101 Location: R Beal At Milnrow Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 182 Yearly Rate (m3): 66372 Details: Ellenroad Ring Mill Site Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1961	2	393000 411700
	Water Abstractions Operator: The Secretary Licence Number: 2569002064 Permit Version: 100 Location: R Beal At Newhey, Milnrow, Rochdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bentgate Street, Newhey, Rochdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1961	2	393000 411700
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H2) - Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A13SW (NW)	0	2	391076 411250
	Drift Deposits None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	4	391076 411250
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	4	391076 411250
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (W)	60	5	391001 411249
17	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (W)	62	5	390999 411257
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (SW)	104	5	390988 411172
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	137	5	391185 411352
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (SW)	178	5	390963 411094
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	236	5	391296 411366

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	279	5	390903 411483
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	279	5	390924 411497
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (N)	289	5	390968 411527
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (N)	290	5	390969 411528
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	309	5	391279 411499
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (N)	310	5	391097 411571
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	319	5	391264 411523
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NW (NW)	327	5	390793 411441
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 329.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	338	5	391094 411599

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13NE (NE)	355	5	391269 411563
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	392	5	390684 411361
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	474	5	391449 411561
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	474	5	391479 411521
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	474	5	391449 411561
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	475	5	391447 411565
37	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	480	5	391448 411573
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	485	5	391514 411487
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	485	5	391514 411487

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	488	5	391442 411591
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	490	5	391538 411452
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	500	5	390584 411401
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	527	5	391586 411433
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 540.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A12SE (W)	539	5	390541 411113
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	551	5	391357 411738
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	553	5	391437 411686
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	555	5	391356 411744
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	555	5	391356 411744

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	567	5	391657 411302
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	567	5	391656 411304
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	568	5	391658 411291
52	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	569	5	391660 411291
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 188.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8NW (SW)	571	5	390792 410739
54	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	580	5	391671 411288
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	580	5	391671 411289
56	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	581	5	391672 411282
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	582	5	391670 411317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A14NW (E)	582	5	391670 411317
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	582	5	390524 411476
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 127.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A12NE (W)	582	5	390519 411466
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (NE)	583	5	391403 411749
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 329.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (W)	587	5	390481 411347
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A7NE (SW)	591	5	390718 410761
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: Underground Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8NW (SW)	592	5	390745 410742
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A7NE (SW)	592	5	390711 410766
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 143.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (E)	593	5	391675 411358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A7NE (SW)	601	5	390659 410797
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	601	5	391693 411232
69	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	606	5	391698 411238
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 358.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	607	5	390875 410663
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8NW (S)	607	5	390875 410663
72	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	610	5	391703 411244
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	613	5	391705 411227
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	618	5	391435 411768
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 204.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A12NE (NW)	626	5	390497 411525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 163.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8SW (S)	675	5	390969 410570
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	717	5	391104 410522
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8SW (S)	752	5	391075 410487
79	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SW (W)	765	5	390324 411051
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SW (W)	765	5	390324 411051
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SW (W)	766	5	390325 411043
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8SE (S)	803	5	391084 410436
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 133.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A17SW (NW)	809	5	390382 411694
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 309.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	814	5	391585 411902

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	863	5	391088 410375
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 158.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8SE (S)	867	5	391094 410372
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 272.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SE (NE)	914	5	391812 411811
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 314.9 Watercourse Level: Underground Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A17SW (NW)	917	5	390334 411812
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 304.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	920	5	391514 412074
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 244.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SE (NE)	938	5	391873 411768
91	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 140.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	948	5	390638 410393
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 143.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Sudden Brook Catchment Name: Mersey Primacy: 1	A8SE (S)	971	5	391229 410281
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SE (S)	973	5	391198 410275

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9SW (S)	1000	5	391448 410313

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Rochdale Metropolitan Borough Council - Has no landfill data to supply		0	3	391076 411250
95	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A17SE (NW)	756	-	390476 411732
96	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9SW (SE)	965	-	391662 410469
97	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13NE (NE)	26	-	391111 411266
98	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SE (S)	97	-	391102 411148
99	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (W)	299	-	390769 411319
100	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SE (W)	357	-	390705 411221
101	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NW (NE)	414	-	391442 411469
102	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NE (SE)	441	-	391317 410868
103	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NE (NW)	457	-	390668 411487
104	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A14SW (E)	503	-	391580 411122
105	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A17SE (NW)	531	-	390701 411644
106	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18SW (N)	581	-	390854 411796
107	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12SE (W)	587	-	390508 411056
108	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18SW (N)	593	-	390887 411821
109	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A12SE (SW)	634	-	390492 410975
110	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A12SE (SW)	641	-	390498 410945
111	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	651	-	390484 410951
112	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9NW (SE)	688	-	391617 410803
113	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A18NE (N)	700	-	391255 411939

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A9NW (SE)	728	-	391530 410666
115	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	742	-	390319 411265
116	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A18NE (N)	822	-	391260 412064
117	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7NE (SW)	822	-	390443 410704
118	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A18NE (N)	854	-	391124 412114
119	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A18NE (N)	877	-	391352 412095
120	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A9SW (SE)	890	-	391529 410472
121	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12SW (W)	919	-	390145 411185
122	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	931	-	390133 411328
123	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	964	-	390109 411407
124	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SW (NW)	973	-	390308 411870
125	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18NE (N)	991	-	391235 412240

Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: British Vita PLC (Vitaluxan) Location: Lower Lane, Milnrow, ROCHDALE, Lancashire, OL16 4NP **Status: Not Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	676	6	391579 411720
127	**Planning Hazardous Substance Consents** Name: Vitaluxan Location: Lower Lane, Milnrow, ROCHDALE, Lancashire, OL16 4NP Authority: Rochdale Metropolitan Borough Council Application Ref: 92/D28756 Hazardous Substance: Flammable (flammable liquids with flash point >=21C and <=55C supporting combustion) Maximum Quantity: 60 Application date: 20th October 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	676	7	391579 411720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SW (NW)	0	1	391076 411250
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NW)	0	1	391076 411250
	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: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	61	1	391000 411250
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	238	1	391076 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	248	1	391000 411000
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	253	1	391000 411500
	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: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	289	1	391217 411517

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	459	1	391301 411665
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	460	1	391339 411643
	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: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SE (NE)	465	1	391319 411661
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	470	1	391306 411675
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	477	1	391500 411000
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (NE)	480	1	391500 411500

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: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	544	1	391500 411610
	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: 90 - 120 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (N)	594	1	391000 411849
	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: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19SW (NE)	598	1	391500 411689
	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: 90 - 120 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17SE (NW)	605	1	390645 411693
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	644	1	391685 411500
	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: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17SE (NW)	688	1	390500 411651

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NW (N)	744	1	391000 412000
	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: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	751	1	391146 412009
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	753	1	391000 410489
	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: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	762	1	391115 412023
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	768	1	391507 411901
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SE (S)	812	1	391275 410453

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 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NE (NW)	883	1	390590 412000
	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: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (W)	895	1	390166 411275
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	941	1	392000 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	982	1	391324 410291
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	986	1	391030 412246
128	**BGS Recorded Mineral Sites** Site Name: Lower Place Gravel Pit Location: Lower Place, Rochdale, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 248709 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Hummocky (Moundy) Glacial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	761	1	390467 411730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	**BGS Recorded Mineral Sites** Site Name: Burn Edge Location: Shaw, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96621 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	957	1	391655 410473
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NW)	0	8	391076 411250
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NW)	0	-	391076 411250
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	391076 411250
	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	A13SW (NW)	0	1	391076 411250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	**Contemporary Trade Directory Entries** Name: Burnedge Mill Animal Feeds Location: Burnedge Mill, Broad Lane, Burnedge, Rochdale, Lancashire, OL16 4PU Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	62	-	391088 411180
131	**Contemporary Trade Directory Entries** Name: D F S Freight Location: 145, Broad Lane, Rochdale, Lancashire, OL16 4PP Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	219	-	390951 411443
132	**Contemporary Trade Directory Entries** Name: Love My Cleaner Location: 15, Blackchapel Drive, Rochdale, OL16 4QU Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	299	-	390831 411056
132	**Contemporary Trade Directory Entries** Name: Thermal Memory Ltd Location: 6, Dodd Croft, Rochdale, Lancashire, OL16 4QX Classification: Cable & Wire Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	318	-	390828 411030
133	**Contemporary Trade Directory Entries** Name: Rubbish Removed Location: 13, Turf Hill Road, Rochdale, Lancashire, OL16 4XH Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	320	-	390974 411563
134	**Contemporary Trade Directory Entries** Name: George Culley Location: 8, Waddington Fold, Rochdale, Lancashire, OL16 4QB Classification: Rubber & Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	320	-	391190 410942
135	**Contemporary Trade Directory Entries** Name: M C M Clean Enviro Location: 42, Weston Avenue, Rochdale, Lancashire, OL16 4PW Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	420	-	390745 411529
135	**Contemporary Trade Directory Entries** Name: The Lancashire Oven Cleaning Co Location: 42, Weston Avenue, Rochdale, Lancashire, OL16 4PW Classification: Oven cleaning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	420	-	390745 411529
136	**Contemporary Trade Directory Entries** Name: Diamond Packaging Location: 3, Crompton Avenue, Rochdale, OL16 4PB Classification: Packaging Materials Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	510	-	390559 411165
137	**Contemporary Trade Directory Entries** Name: Billington Bros Location: Broad La, Burnedge, Rochdale, Lancashire, OL16 4QD Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	520	-	391362 410802
138	**Contemporary Trade Directory Entries** Name: The Lighting Diffuser Co Location: 25, Cleveleys Avenue, Rochdale, Lancashire, OL16 4PD Classification: Lighting Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	525	-	390537 411286
139	**Contemporary Trade Directory Entries** Name: Brighten Up Carpet & Upholstery Cleaning Location: 72, Turf Hill Road, Rochdale, Lancashire, OL16 4XG Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	529	-	391127 411788

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	**Contemporary Trade Directory Entries** Name: Clark Welding Location: 40, Delamere Road, Rochdale, Lancashire, OL16 4XN Classification: Gate Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	564	-	391228 411806
140	**Contemporary Trade Directory Entries** Name: Clark Welding Location: 40, Delamere Road, Rochdale, OL16 4XN Classification: Gate Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	564	-	391228 411806
141	**Contemporary Trade Directory Entries** Name: Revive Location: 30, Gilbrook Way, Rochdale, OL16 4RT Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	570	-	390715 410790
142	**Contemporary Trade Directory Entries** Name: Ainsworth Exhausts Location: 4, Exmouth Street, Rochdale, OL16 4SX Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	606	-	390495 411471
142	**Contemporary Trade Directory Entries** Name: Manchester Recovery Services Ltd Location: Buersil House, Exmouth Street, Rochdale, OL16 4SX Classification: Car Breakdown & Recovery Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	608	-	390501 411490
143	**Contemporary Trade Directory Entries** Name: Air Quality Control Location: 585, Oldham Road, Rochdale, OL16 4SU Classification: Air Conditioning & Refrigeration Contractors **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	616	-	390463 411402
144	**Contemporary Trade Directory Entries** Name: Oswald & Duncan Ltd Location: Balderstone Mill, Oldham Road, Rochdale, Lancashire, OL11 2AA Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	626	-	390474 411034
145	**Contemporary Trade Directory Entries** Name: G T R Ltd Location: Buersil Post Office, 741, Oldham Road, Rochdale, Lancashire, OL16 4RH Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	660	-	390636 410739
145	**Contemporary Trade Directory Entries** Name: Da Wash Location: Oldham Rd, Rochdale, Lancashire, OL16 4RH Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	660	-	390636 410739
146	**Contemporary Trade Directory Entries** Name: G T Control & Design Ltd Location: 35, Balderstone Road, Rochdale, Lancashire, OL11 2AD Classification: Electrical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	661	-	390418 411099
147	**Contemporary Trade Directory Entries** Name: B A Motors Ltd Location: Oldham Road, Rochdale, Lancashire, OL11 2AT Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	679	-	390565 410782
147	**Contemporary Trade Directory Entries** Name: V W Auto Location: Rochdale, OL11 2AT Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	683	-	390568 410773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**Contemporary Trade Directory Entries** Name: K & N Car Sales Location: Oldham Rd, Rochdale, Lancashire, OL11 2AT Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	712	-	390639 410670
149	**Contemporary Trade Directory Entries** Name: B A Motors Location: Oldham Rd, Rochdale, Lancashire, OL11 2AT Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	723	-	390678 410630
150	**Contemporary Trade Directory Entries** Name: Texaco Location: Oldham Road, Rochdale, Lancashire, OL16 4RH Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	726	-	390725 410598
150	**Contemporary Trade Directory Entries** Name: A T J Motors Ltd Location: Oldham Road, Rochdale, Lancashire, OL11 2AT Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	726	-	390725 410598
150	**Contemporary Trade Directory Entries** Name: Esso Location: Oldham Road, Rochdale, Lancashire, OL16 4RH Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	726	-	390725 410598
150	**Contemporary Trade Directory Entries** Name: Dean Service Station Ltd Location: Oldham Road, Rochdale, Lancashire, OL16 4RH Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	726	-	390725 410598
150	**Contemporary Trade Directory Entries** Name: G T Motor Location: Oldham Rd, Rochdale, Lancashire, OL11 2AT Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	736	-	390691 410606
151	**Contemporary Trade Directory Entries** Name: Takeuchi Manufacturing Uk Ltd Location: Unit E2b, John Boyd Dunlop Drive, Kingsway Business Park, Rochdale, Lancashire, OL16 4NG Classification: Plant & Machinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	732	-	391721 411623
152	**Contemporary Trade Directory Entries** Name: Kings Communications Location: Oldham Rd, Rochdale, Lancashire, OL16 4SZ Classification: Mobile Phone Accessories and Car Kits **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	806	-	390434 411760
152	**Contemporary Trade Directory Entries** Name: The Wandrus Store Location: 469, Oldham Road, Rochdale, Lancashire, OL16 4TD Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	814	-	390443 411783
153	**Contemporary Trade Directory Entries** Name: Source Bioscience Storage Ltd Location: Unit E2a1, John Boyd Dunlop Drive, Kingsway Business Park, ROCHDALE, Lancashire, OL16 4NG Classification: Pharmaceutical Manufacturers & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	820	-	391856 411547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	**Contemporary Trade Directory Entries** Name: Source Bioscience Location: Unit E2a1, John Boyd Dunlop Drive, Kingsway Business Park, Rochdale, Lancashire, OL16 4NG Classification: Chemists' & Pharmacists' Suppliers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	820	-	391856 411547
153	**Contemporary Trade Directory Entries** Name: Source Bioscience Location: Unit E2a1, John Boyd Dunlop Drive, Kingsway Business Park, Rochdale, Lancashire, OL16 4NG Classification: Chemists' & Pharmacists' Suppliers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	820	-	391856 411547
153	**Contemporary Trade Directory Entries** Name: Vindon Scientific Ltd Location: Unit E2a1, John Boyd Dunlop Drive, Kingsway Business Park, Rochdale, Lancashire, OL16 4NG Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	820	-	391856 411547
154	**Contemporary Trade Directory Entries** Name: Wild'S Windoors Location: Gordon Rigg Garden Centre,Kingsway, Rochdale, Lancashire, OL16 4UX Classification: Door Manufacturers - Domestic **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18NW (N)	862	-	390934 412110
155	**Contemporary Trade Directory Entries** Name: Edmund Bell & Co Ltd Location: Unit E1a, John Boyd Dunlop Drive, Kingsway Business Park, Rochdale, Lancashire, OL16 4NG Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	892	-	391885 411657
156	**Contemporary Trade Directory Entries** Name: Application Tape Co Ltd Location: Calf Hey South, ROCHDALE, Lancashire, OL11 2JS Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	910	-	390345 411814
157	**Contemporary Trade Directory Entries** Name: T Lawton Dairyman Location: 3, Lonsdale Avenue, Rochdale, Lancashire, OL16 5HP Classification: Dairies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (N)	911	-	390735 412104
158	**Contemporary Trade Directory Entries** Name: Kiyas Ltd Location: 119-121, Broad Lane, Burnedge, Rochdale, Lancashire, OL16 4QQ Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	919	-	391616 410492
159	**Contemporary Trade Directory Entries** Name: Stampede Cleaning Location: 2, Watkin Street, Rochdale, Lancashire, OL16 4UH Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	926	-	390440 411941
160	**Contemporary Trade Directory Entries** Name: Shepherd Printers Location: 218-220, Oldham Road, ROCHDALE, Lancashire, OL11 2ER Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	930	-	390393 411901
160	**Contemporary Trade Directory Entries** Name: Fishers Cleaning Services Ltd Location: 210-212, Oldham Road, Rochdale, Lancashire, OL11 2ER Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	945	-	390387 411916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	**Contemporary Trade Directory Entries** Name: C R B R Lauren Ltd Location: Charles Babbage Av, Kingsway Business Pk, Rochdale, Lancashire, OL16 4NW Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	948	-	391981 411577
162	**Contemporary Trade Directory Entries** Name: Dunphy Combustion Ltd Location: Queensway, Rochdale, Lancashire, OL11 2SL Classification: Boiler Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	979	-	390277 411839
163	**Contemporary Trade Directory Entries** Name: Commercial Contract Engineers Ltd Location: Eagle Technology Park, Queensway, Rochdale, Lancashire, OL11 1TQ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (W)	983	-	390138 411592
164	**Contemporary Trade Directory Entries** Name: Autocare Location: Rochdale, OL16 5LP Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	1000	-	390421 412022
164	**Contemporary Trade Directory Entries** Name: Autocare Location: Count Street, Rochdale, Lancashire, OL16 5LP Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	1000	-	390421 412022
164	**Contemporary Trade Directory Entries** Name: Royalways Motor Garage Location: Barn Garage, Count Street, Rochdale, OL16 5LP Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	1000	-	390421 412022
164	**Contemporary Trade Directory Entries** Name: Autocare Location: Barn Garage, Count Street, Rochdale, Lancashire, OL16 5LP Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	1000	-	390421 412022
165	**Fuel Station Entries** Name: Dean Service Station Location: Oldham Road , Balderstone , Rochdale, Greater Manchester, OL16 4RH Brand: Texaco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	726	-	390725 410598
166	**Points of Interest - Commercial Services** Name: D F S Freight Location: 145 Broad Lane, Rochdale, OL16 4PP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (NW)	219	9	390951 411443
167	**Points of Interest - Commercial Services** Name: Revive Location: 30 Gilbrook Way, Rochdale, OL16 4RT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	570	9	390715 410790
168	**Points of Interest - Commercial Services** Name: Ainsworth Exhausts Location: 4 Exmouth Street, Rochdale, OL16 4SX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	606	9	390495 411471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	**Points of Interest - Commercial Services** Name: Ainsworth Exhausts Location: 4 Exmouth Street, Rochdale, OL16 4SX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	606	9	390495 411471
169	**Points of Interest - Commercial Services** Name: Gt Motors Garage MOT Location: Oldham Road, Rochdale, OL11 2AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	679	9	390565 410782
169	**Points of Interest - Commercial Services** Name: D A Wash Location: Texaco Garage, Oldham Road, Rochdale, OL16 4RH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7NE (SW)	683	9	390568 410773
170	**Points of Interest - Commercial Services** Name: V W Auto Location: Oldham Road, Rochdale, OL11 2AT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	727	9	390724 410598
171	**Points of Interest - Commercial Services** Name: Forward Recycling Services Ltd Location: 4 Harvard Street, Rochdale, OL11 2HA Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A17SW (NW)	800	9	390392 411692
172	**Points of Interest - Commercial Services** Name: G R P Material Supplies Location: Eagle Technology Park, Queensway, Rochdale, OL11 1TQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SW (NW)	932	9	390223 411662
173	**Points of Interest - Commercial Services** Name: Commercial Contract Engineers Ltd Location: Eagle Technology Park, Queensway, Rochdale, OL11 1TQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (W)	984	9	390137 411592
174	**Points of Interest - Commercial Services** Name: Royalways Motor Garage Location: Count Street, Rochdale, OL16 5LP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	1000	9	390421 412022
174	**Points of Interest - Commercial Services** Name: Autocare Location: Barn Garage, Count Street, Rochdale, OL16 5LP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	1000	9	390421 412022
174	**Points of Interest - Commercial Services** Name: Autocare Location: Count Street, Rochdale, OL16 5LP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	1000	9	390421 412022
175	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	60	9	391095 411185
176	**Points of Interest - Manufacturing and Production** Name: Tank Location: OL16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	495	9	390868 410786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	602	9	390508 411492
177	**Points of Interest - Manufacturing and Production** Name: Works Location: OL16 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	602	9	390508 411492
178	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	656	9	390663 410722
179	**Points of Interest - Manufacturing and Production** Name: Tank Location: OL16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	656	9	391524 411746
179	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	683	9	391580 411729
180	**Points of Interest - Manufacturing and Production** Name: Tank Location: OL16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	700	9	390948 410549
181	**Points of Interest - Manufacturing and Production** Name: Tank Location: OL16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	724	9	391645 410779
182	**Points of Interest - Manufacturing and Production** Name: Tank Location: OL16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	750	9	391609 411795
183	**Points of Interest - Manufacturing and Production** Name: J C Spencer Location: Buersil Head Farm, Thornham New Road, Rochdale, OL11 2BA Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A7SE (SW)	910	9	390702 410405
183	**Points of Interest - Manufacturing and Production** Name: Poultry House Location: OL11 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	974	9	390643 410362
184	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	982	9	390278 411846
184	**Points of Interest - Manufacturing and Production** Name: Works Location: OL11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A17SW (NW)	987	9	390277 411853

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
185	**Points of Interest - Public Infrastructure** Name: Weir Location: OL16 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	613	9	390504 411509
186	**Points of Interest - Public Infrastructure** Name: Samuel Cooke Dean Location: Oldham Road, Rochdale, Lancashire, OL16 4RH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	680	9	390564 410782
187	**Points of Interest - Public Infrastructure** Name: Dean Service Station Location: Oldham Road, Rochdale, OL16 4RH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	726	9	390725 410598
187	**Points of Interest - Public Infrastructure** Name: Dean Service Station Location: Oldham Road, Rochdale, OL16 4RH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	726	9	390725 410598
187	**Points of Interest - Public Infrastructure** Name: Dean Service Station Location: Oldham Road, Rochdale, OL16 4RH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	726	9	390725 410598
187	**Points of Interest - Public Infrastructure** Name: Dean Service Station Ltd Location: Oldham Road, Rochdale, OL16 4RH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	727	9	390724 410598
188	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	478	9	391209 411722
188	**Points of Interest - Recreational and Environmental** Name: Playground Location: Neston Road, OL16 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	478	9	391209 411722

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	**Areas of Adopted Green Belt** Authority: Rochdale Metropolitan Borough Council Plan Name: Rochdale Unitary Development Plan **Status: Adopted** Plan Date: 30th June 2006	A8NE (SE)	572	10	391395 410762
190	**Areas of Adopted Green Belt** Authority: Rochdale Metropolitan Borough Council Plan Name: Rochdale Unitary Development Plan **Status: Adopted** Plan Date: 30th June 2006	A7SE (SW)	858	10	390713 410457

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Rochdale Metropolitan Borough Council - Environmental Health Department	October 2017	Annually
Oldham Metropolitan Borough Council - Environmental Health Department	September 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - North West Region	October 2018	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	October 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Oldham Metropolitan Borough Council - Environmental Health Department	March 2015	Variable
Local Authority Pollution Prevention and Controls		
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Annual Rolling Update
Oldham Metropolitan Borough Council - Environmental Health Department	March 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Rochdale Metropolitan Borough Council - Environmental Health Department	July 2014	Variable
Oldham Metropolitan Borough Council - Environmental Health Department	September 2013	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
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	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - North West Region	January 2015	
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 - South Area	October 2018	Quarterly
Water Abstractions		
Environment Agency - North West Region	October 2018	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2018	Quarterly
Flood Defences Environment Agency - Head Office	August 2018	Quarterly
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	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 - Head Office	July 2018	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 - South Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North West Region - South Area	October 2018	Quarterly
Local Authority Landfill Coverage		
Oldham Metropolitan Borough Council	May 2000	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Oldham Metropolitan Borough Council	May 2000	Not Applicable
Rochdale Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North West Region - South Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Oldham Metropolitan Borough Council	February 2016	Variable
Rochdale Metropolitan Borough Council	February 2016	Variable
Planning Hazardous Substance Consents		
Oldham Metropolitan Borough Council	February 2016	Variable
Rochdale Metropolitan Borough Council	February 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	November 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2018	Quarterly
Points of Interest - Education and Health PointX	September 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2018	Quarterly
Points of Interest - Public Infrastructure PointX	September 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Oldham Metropolitan Borough Council	August 2018	As notified
Rochdale Metropolitan Borough Council	August 2018	As notified
Areas of Unadopted Green Belt		
Oldham Metropolitan Borough Council	August 2018	As notified
Rochdale Metropolitan Borough Council	August 2018	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	August 2018	Bi-Annually
Marine Nature Reserves		
Natural England	January 2018	Bi-Annually
National Nature Reserves		
Natural England	August 2018	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest		
Natural England	October 2018	Bi-Annually
Special Areas of Conservation		
Natural England	August 2018	Bi-Annually
Special Protection Areas		
Natural England	August 2018	Bi-Annually

Data Suppliers

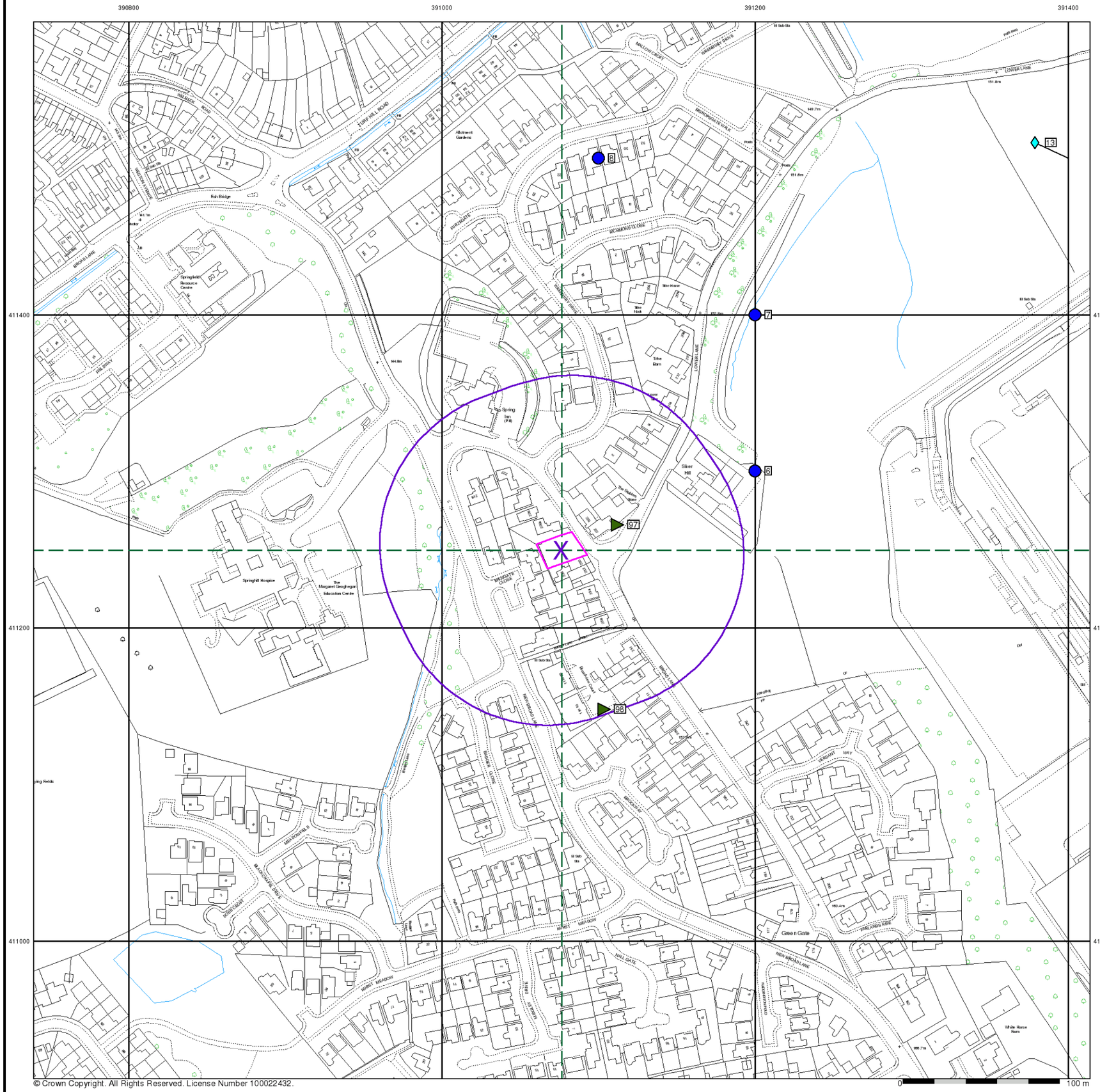
A selection of organisations who provide data within this report

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	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Rochdale Metropolitan Borough Council - Environmental Health Department** P O Box 32, Telegraph House, Ballie Street, Rochdale, Greater Manchester, OL16 1JH	Telephone: 01706 864139 Fax: 01706 864185 Website: www.rochdale.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	**Rochdale Metropolitan Borough Council** Municipal Offices, Smith Street, Rochdale, Greater Manchester, OL16 1XG	Telephone: 01706 647474 Fax: 01706 59475 Website: www.rochdale.gov.uk
8	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Rochdale Metropolitan Borough Council** PO Box 15, Town Hall, Rochdale, Greater Manchester, OL16 1AB	Telephone: 01706 647474 Fax: 01706 59475 Website: www.rochdale.gov.uk
11	**Oldham Metropolitan Borough Council** Civic Centre, P O Box 55, West Street, Oldham, Lancashire, OL1 1XN	Telephone: 0161 911 3000 Fax: 0161 678 4550 Website: www.oldham.gov.uk
12	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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.



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LK GROUP

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

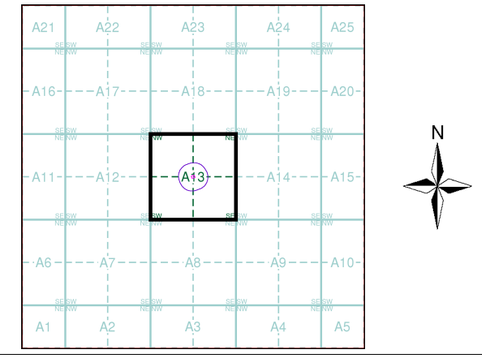
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



Order Details

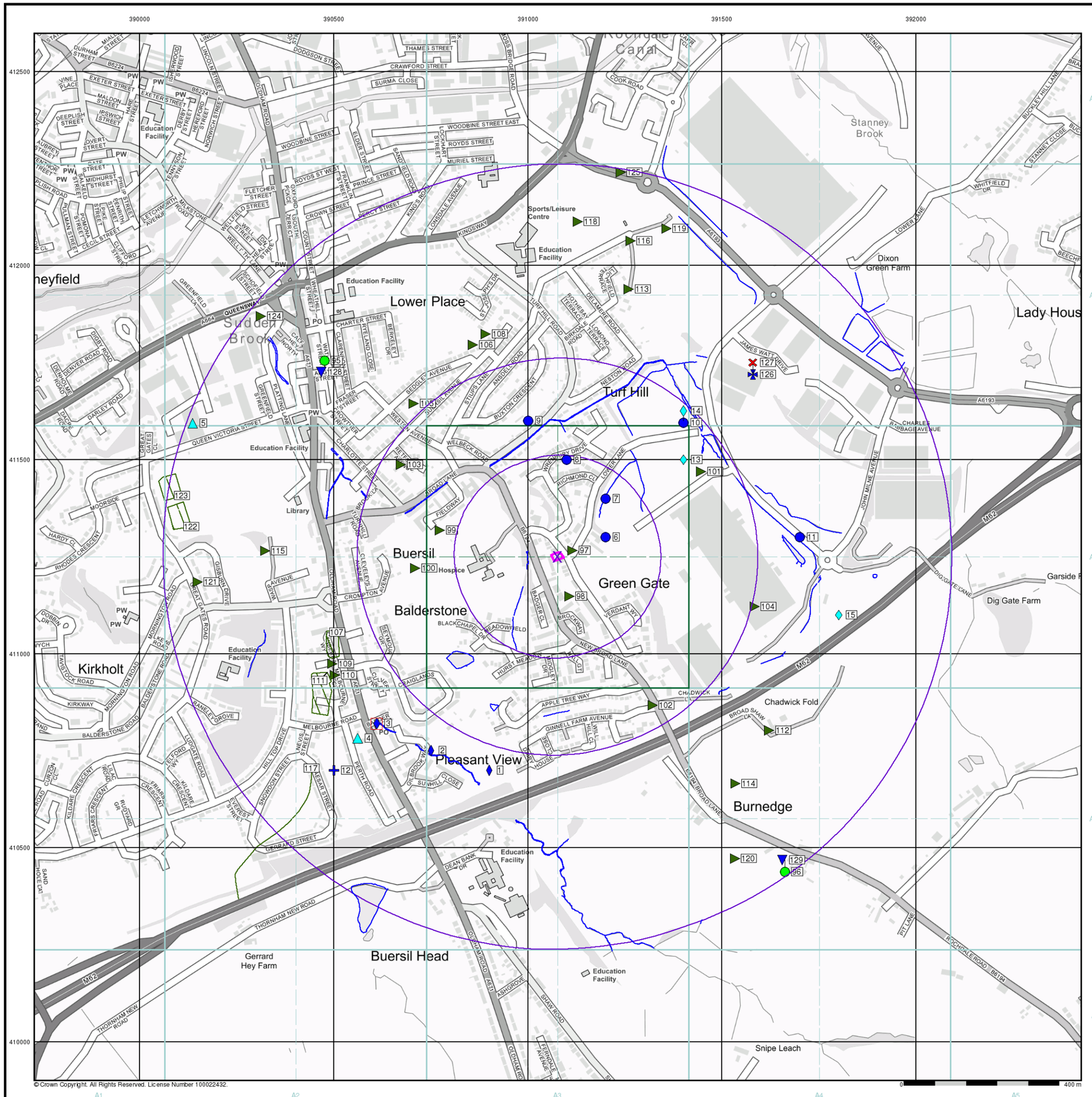
Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Plot Buffer (m):	100

Site Details

228 Broad Lane, Rochdale, OL16 4PR

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LK GROUP

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

COMAH Site | Explosive Site | NIHHS Site

- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

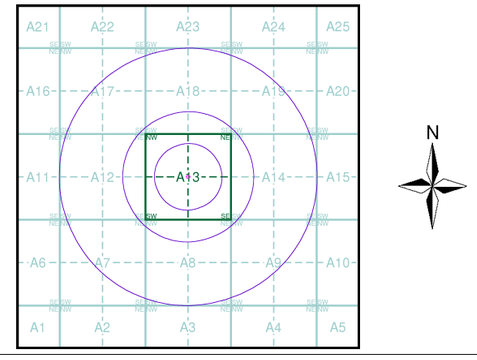
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



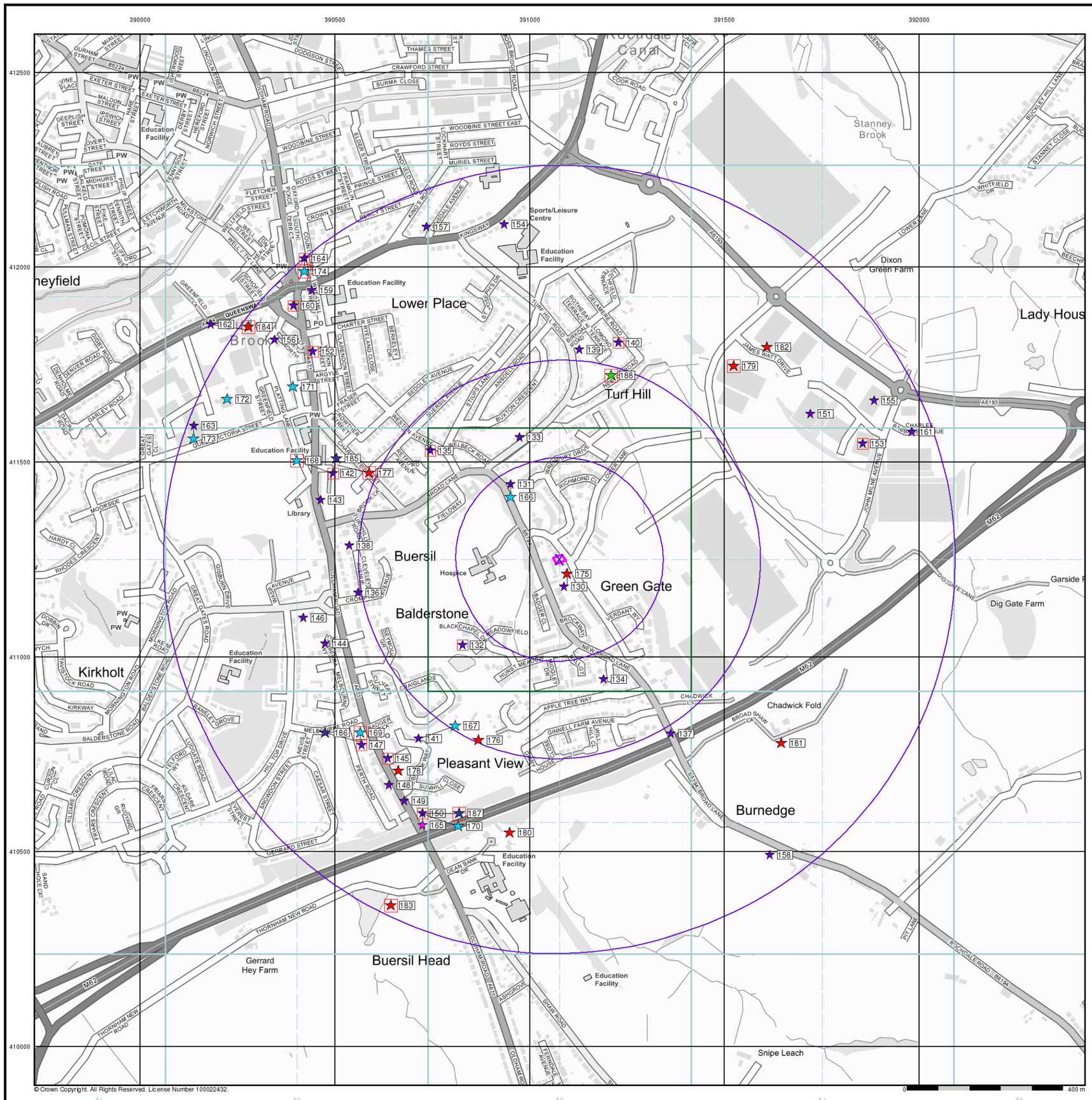
Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LK GROUP

Industrial Land Use Map

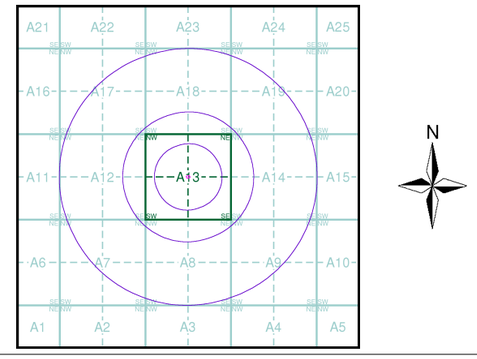
General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Gas Pipeline
Points of Interest - Commercial Services
Points of Interest - Education and Health
Points of Interest - Manufacturing and Production
Points of Interest - Public Infrastructure
Points of Interest - Recreational and Environmental
Underground Electrical Cables

Industrial Land Use Map - Slice A



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Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

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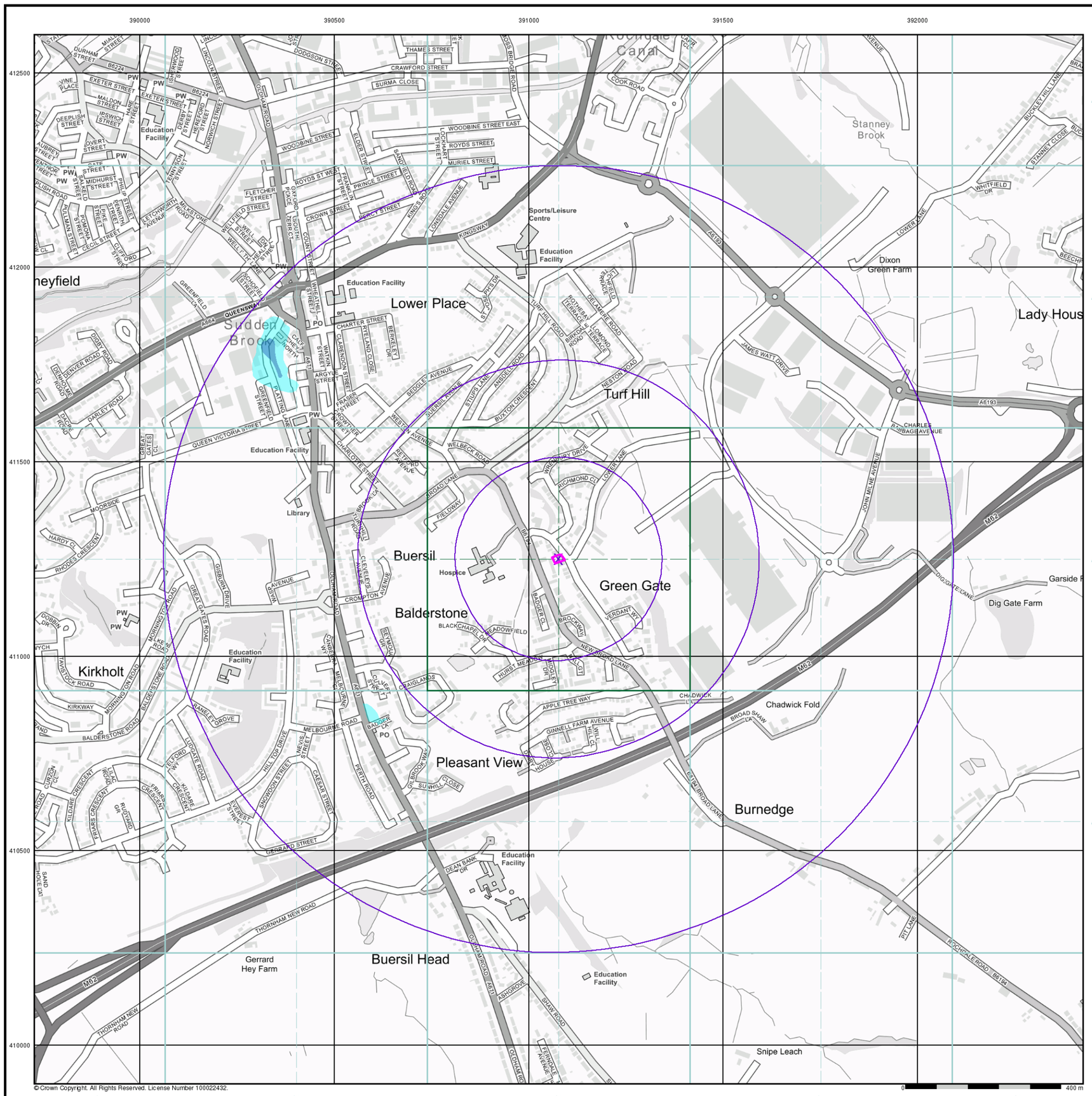


LK GROUP

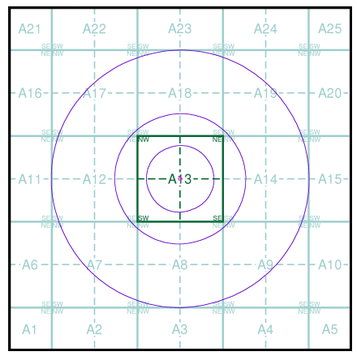
General

- Specified Site
- Specified Buffer(s)
- X 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:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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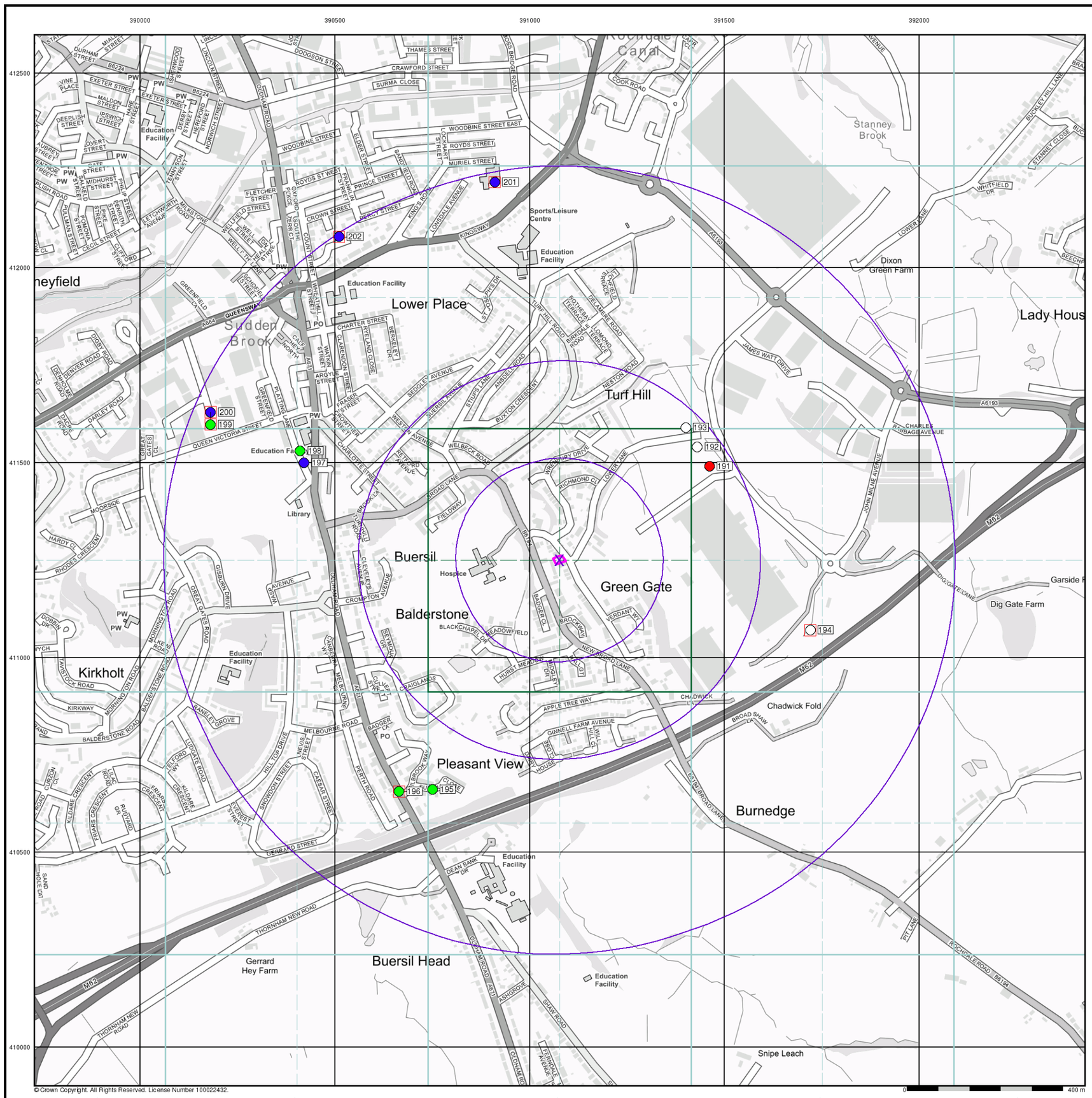
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411000
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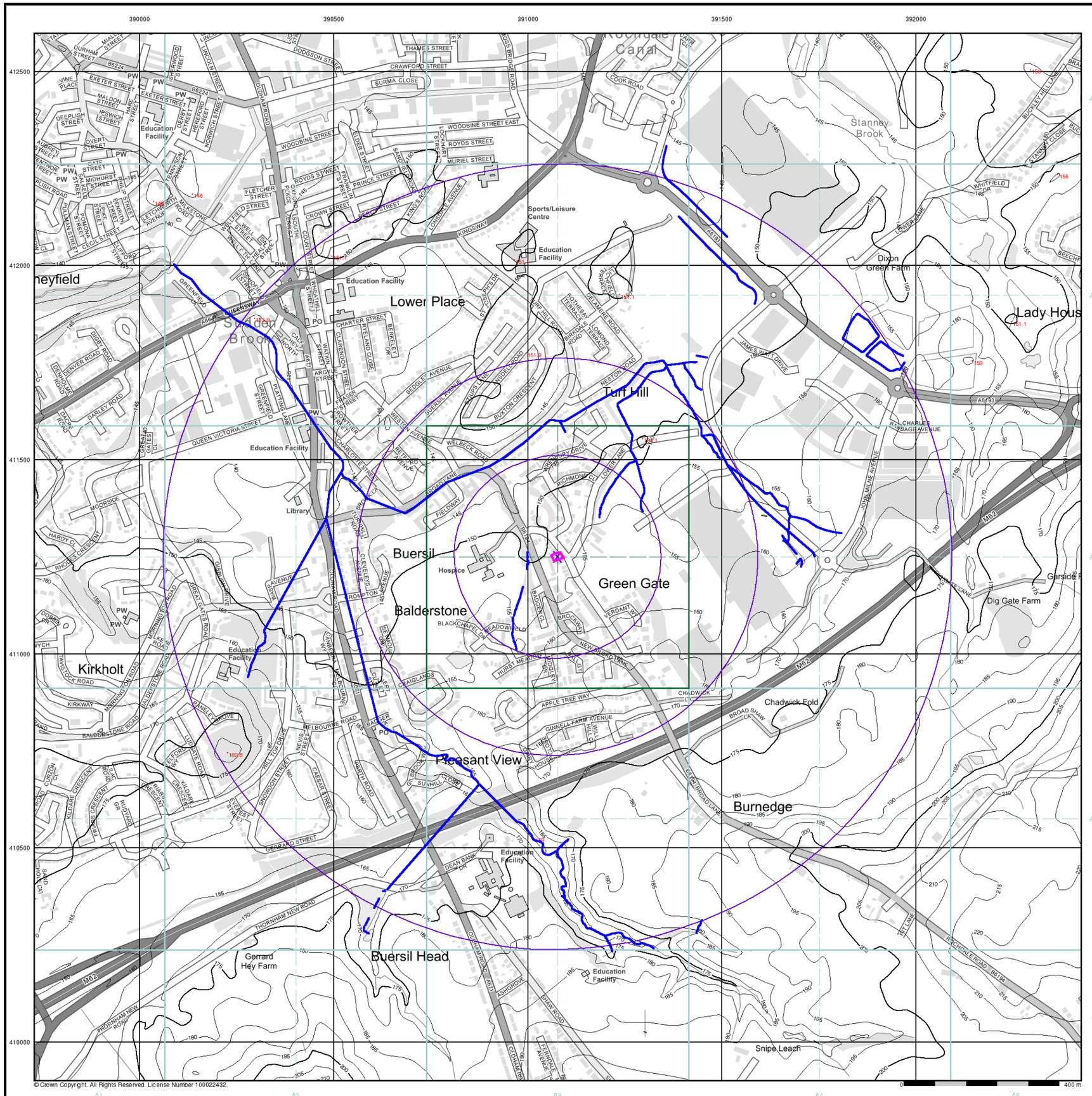
410000
A25
A20
A15
A10
A5
A1
A2
A3
A4
A5
Rochdale Canal
Stanney Brook
Sudden Brook
Lower Place
Turf Hill
Buersil
Green Gate
Balderstone
Kirkholt
Pleasant View
Burnedge
Buersil Head
Gerrard Hey Farm
Snipe Leach
Dixon Green Farm
Chadwick Fold
Dig Gate Farm
Garside
Lady Hous
Sports/Leisure Centre
Education Facility
Library
Hospice
Education Facility
Education Facility
Education Facility



LK GROUP

General

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

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

Standard Contour 105 100 95

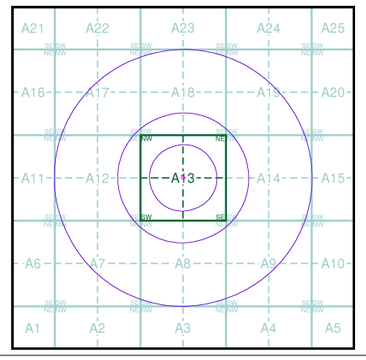
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number:	189172946_1_1
Customer Ref:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

228 Broad Lane, Rochdale, OL16 4PR

Landmark INFORMATION GROUP

Tel: 0844 844 9952
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390000
390500
391000
391500
392000
412500
412000
411500
411000
410500
410000
A25
A20
A15
A10
A5
A1
A2
A3
A4
A5
Canal
Sports/Leisure Centre
Education Facility
Lower Place
Turf Hill
Buersil
Hospice
Green Gate
Balderstone
Kirkholt
Pleasant View
Burnedge
Buersil Head
Gerrard Hey Farm
Snipe Leach
Dig Gate Farm
Chadwick Fold
Dixon Green Farm
Lady House
Library
Education Facility
Hospice
THAMES STREET
CRAWFORD STREET
WOODBINE STREET EAST
WOODBINE STREET
PRINCE STREET
KINGSWAY
QUEENSWAY
GREENFIELD ROAD
GREGORY AVENUE
WELBECK ROAD
BUTTON CRESCENT
ANSDELL ROAD
TURNER ROAD
DELAMERE ROAD
LONSDALE AVENUE
KING'S ROAD
COOK ROAD
WES WATT DRIVE
JOHN MILNE AVENUE
CHARLES RATCLIFFE AVENUE
A6033
M62
BUCKLEY HILL LANE
STANNEY CLOUGH
WHITFIELD DR
BEECHPOOL
ROCHDALE ROAD
A6033
THORNHAM NEW ROAD
APPLE TREE WAY
GINNELL FARM AVENUE
BROAD LANE
PIT LANE
DIGGLE VIEW
ASHGROVE
DEAN BANK DR
Education Facility
Library
Hospice
Education Facility
Education Facility
Education Facility

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
		Faults		
		Rock Segments		

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	HMGDD	Hummocky (Moundy) Glacial Deposits, Devensian	Diamicton	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFICD	Glaciofluvial Ice Contact Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	RYSA	Royley Sandstone	Sandstone	Not Supplied - Westphalian
	RSC	Riddle Scout Rock	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian

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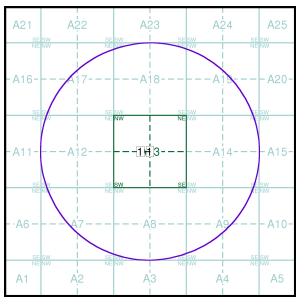
Geology 1:50,000 Maps

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 landslip deposits, superficial geology and solid (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 Sheet No:	**085**
Map Name:	**Manchester**
Map Date:	**2010**
Bedrock Geology:	**Available**
Superficial Geology:	**Not Available**
Artificial Geology:	**Not Available**
Faults:	**Not Supplied**
Landslip:	**Not Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



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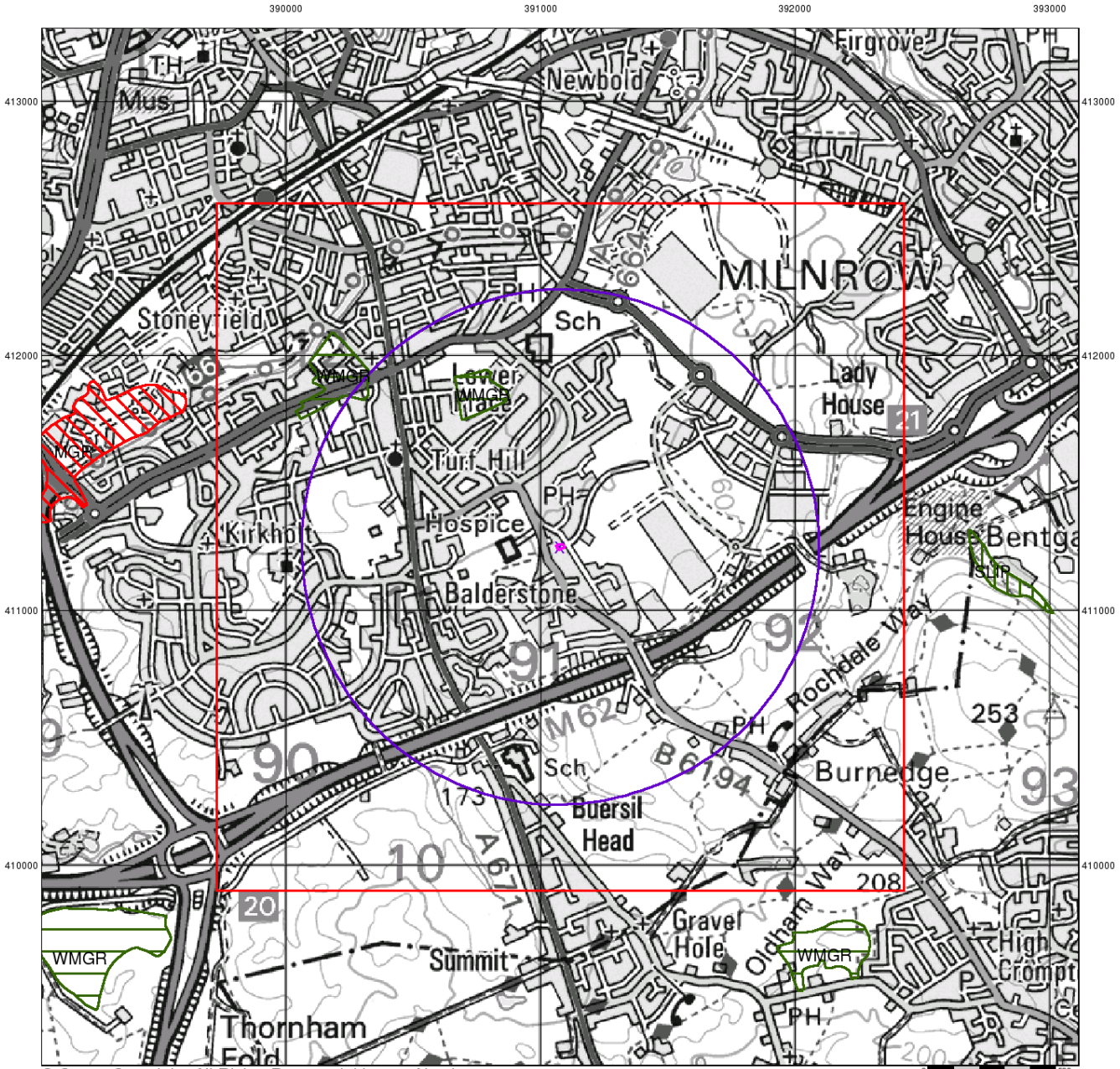
Customer Reference:	LKC 18 1211
National Grid Reference:	391080, 411250
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details:

228 Broad Lane, Rochdale, OL16 4PR

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Artificial Ground and Landslip

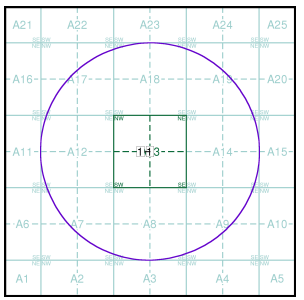
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial Ground and Landslip Map - Slice A



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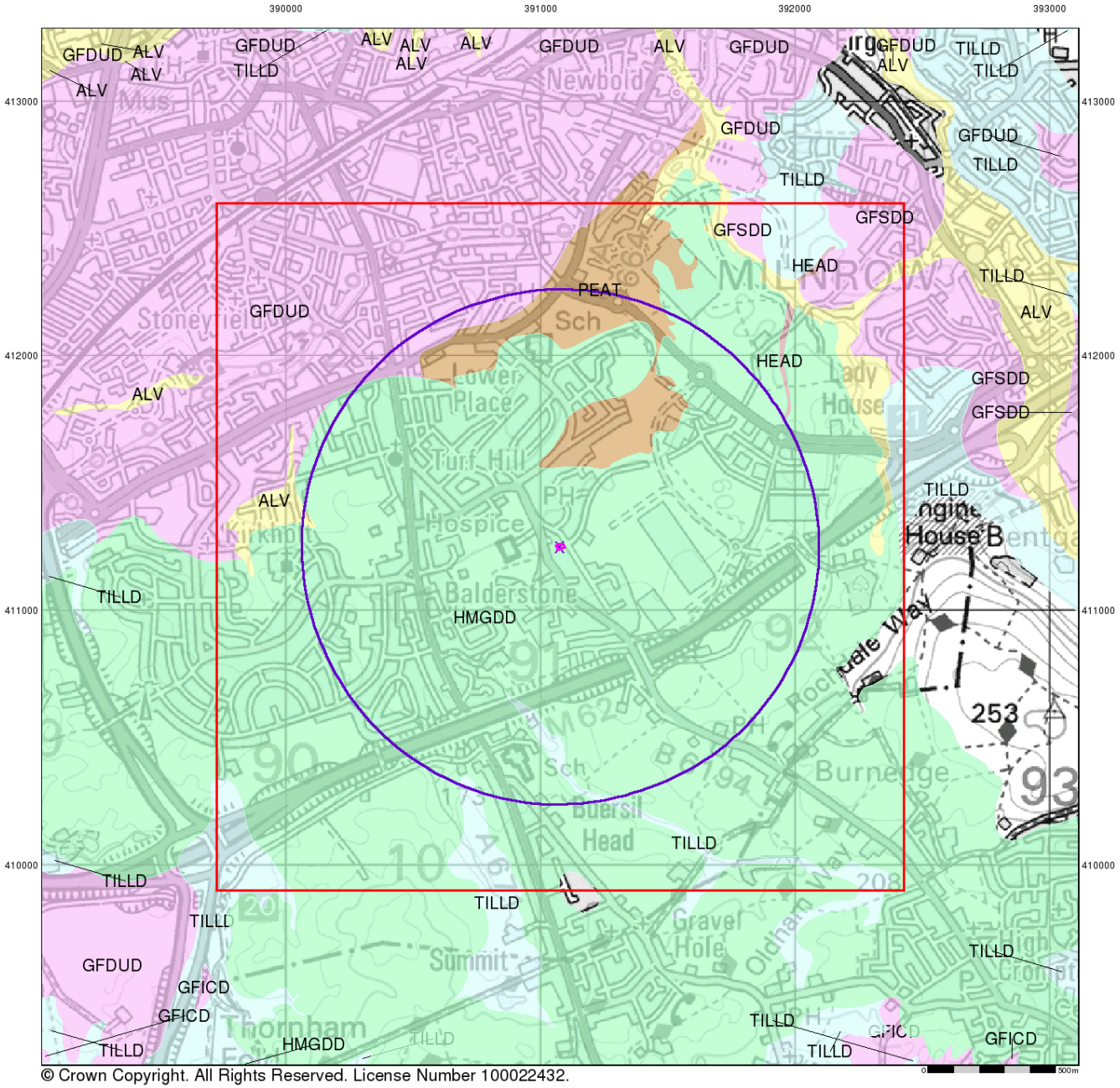

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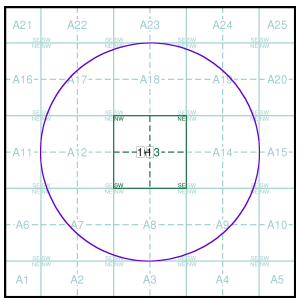
Superficial Geology

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



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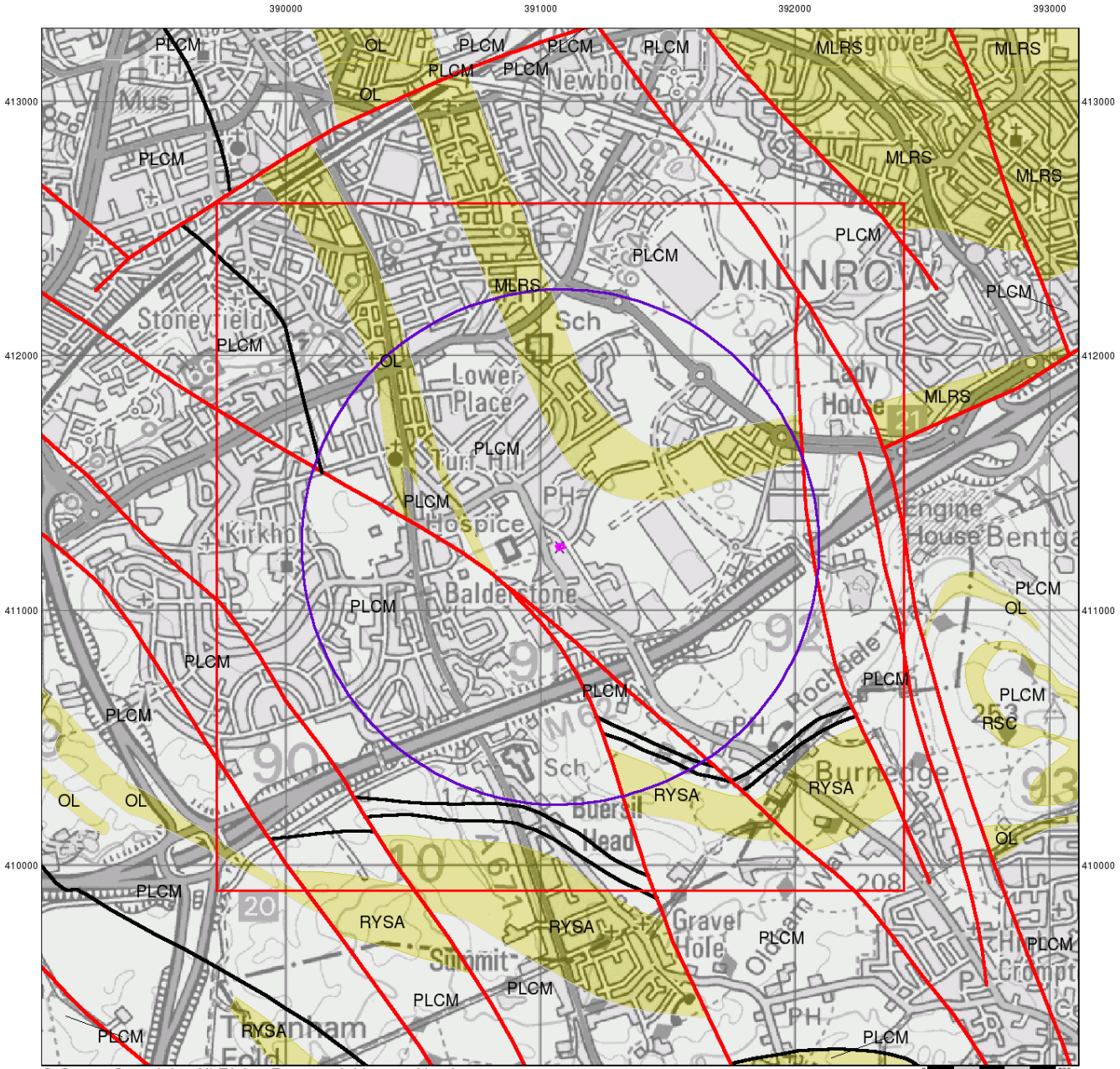

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Bedrock and Faults

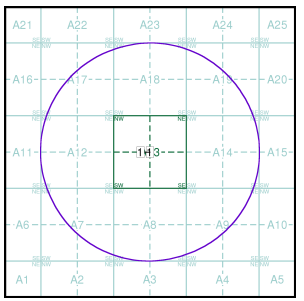
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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, gypsum 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



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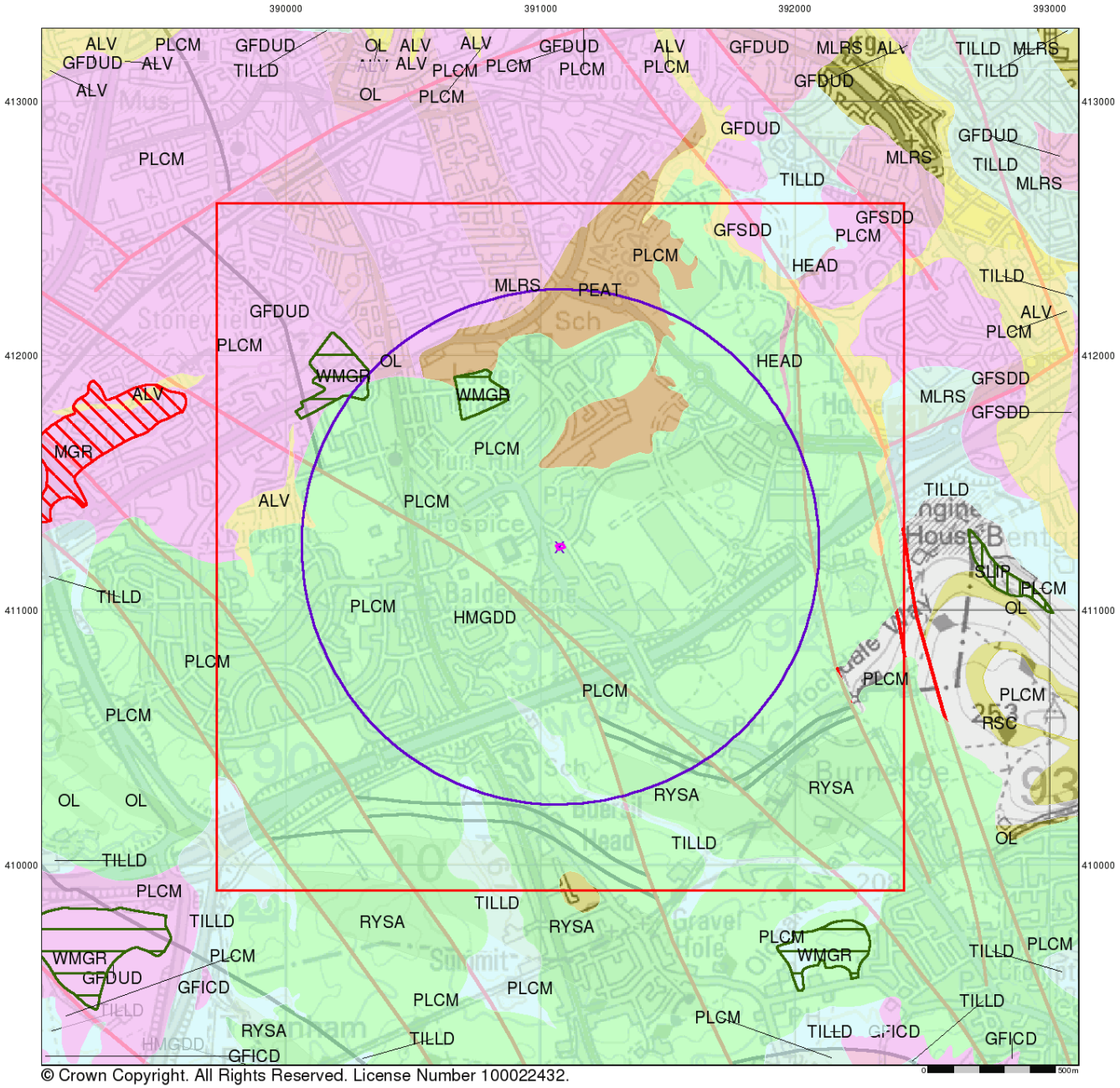

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Combined Surface Geology

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.

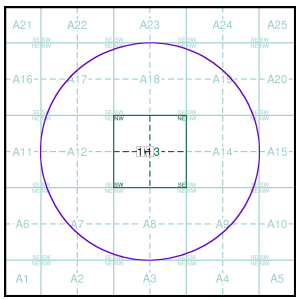
Additional Information

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



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Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details:

228 Broad Lane, Rochdale, OL16 4PR



LK GROUP

Groundwater Vulnerability

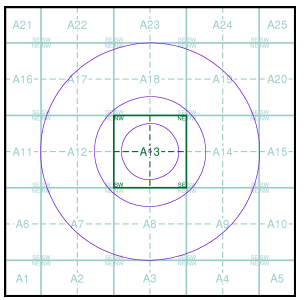
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



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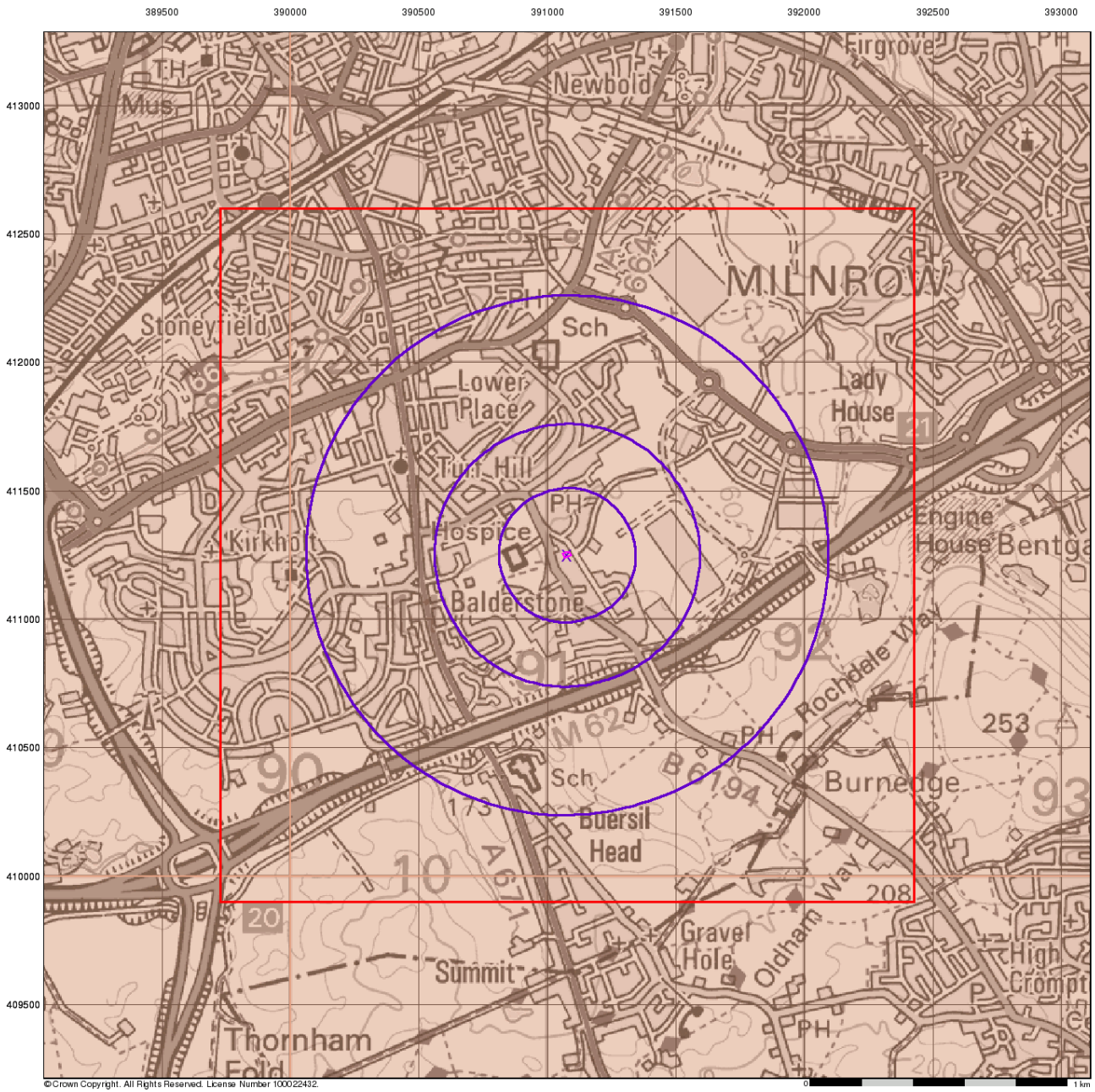


LK GROUP

Bedrock Aquifer Designation

General

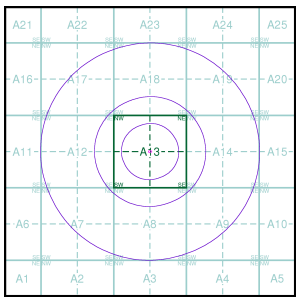
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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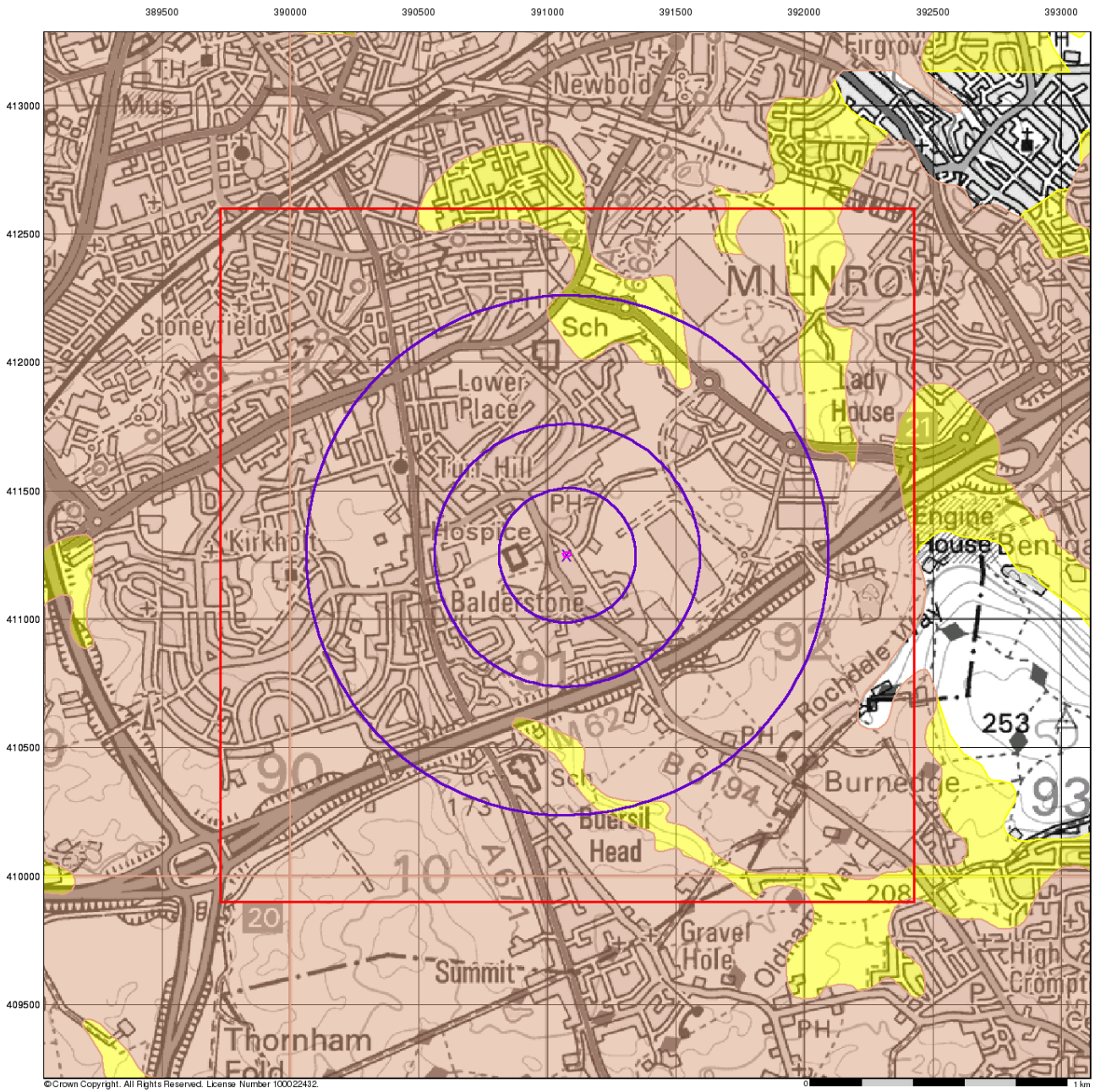
Site Details

228 Broad Lane, Rochdale, OL16 4PR



LK GROUP

Superficial Aquifer Designation

General

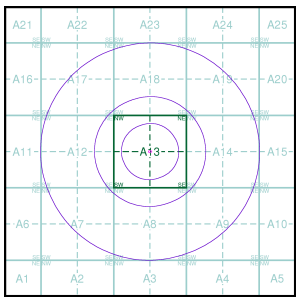
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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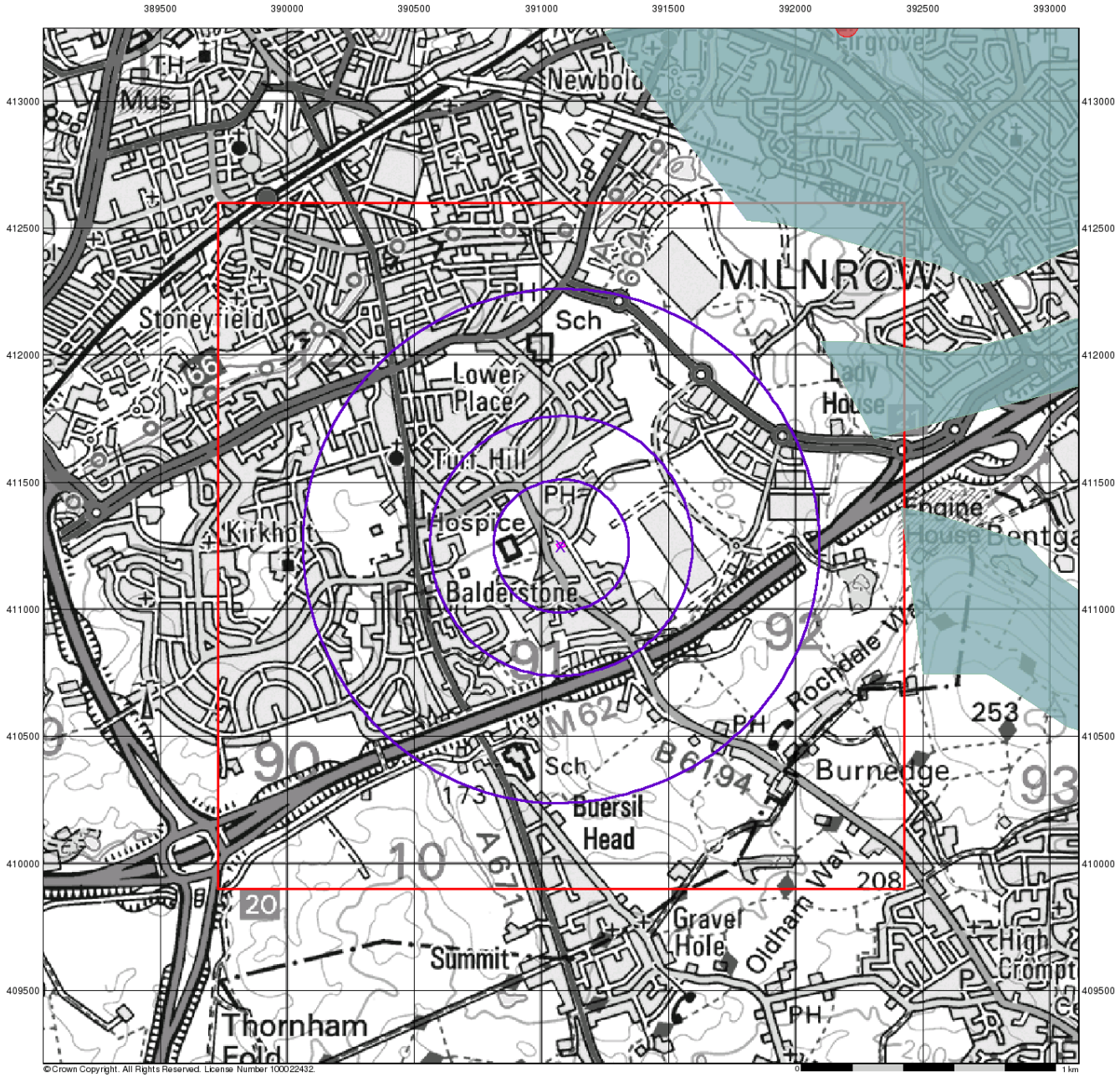


LK GROUP

Source Protection Zones

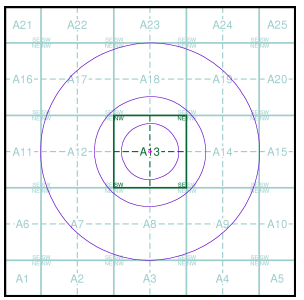
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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)

Site Sensitivity Context Map - Slice A



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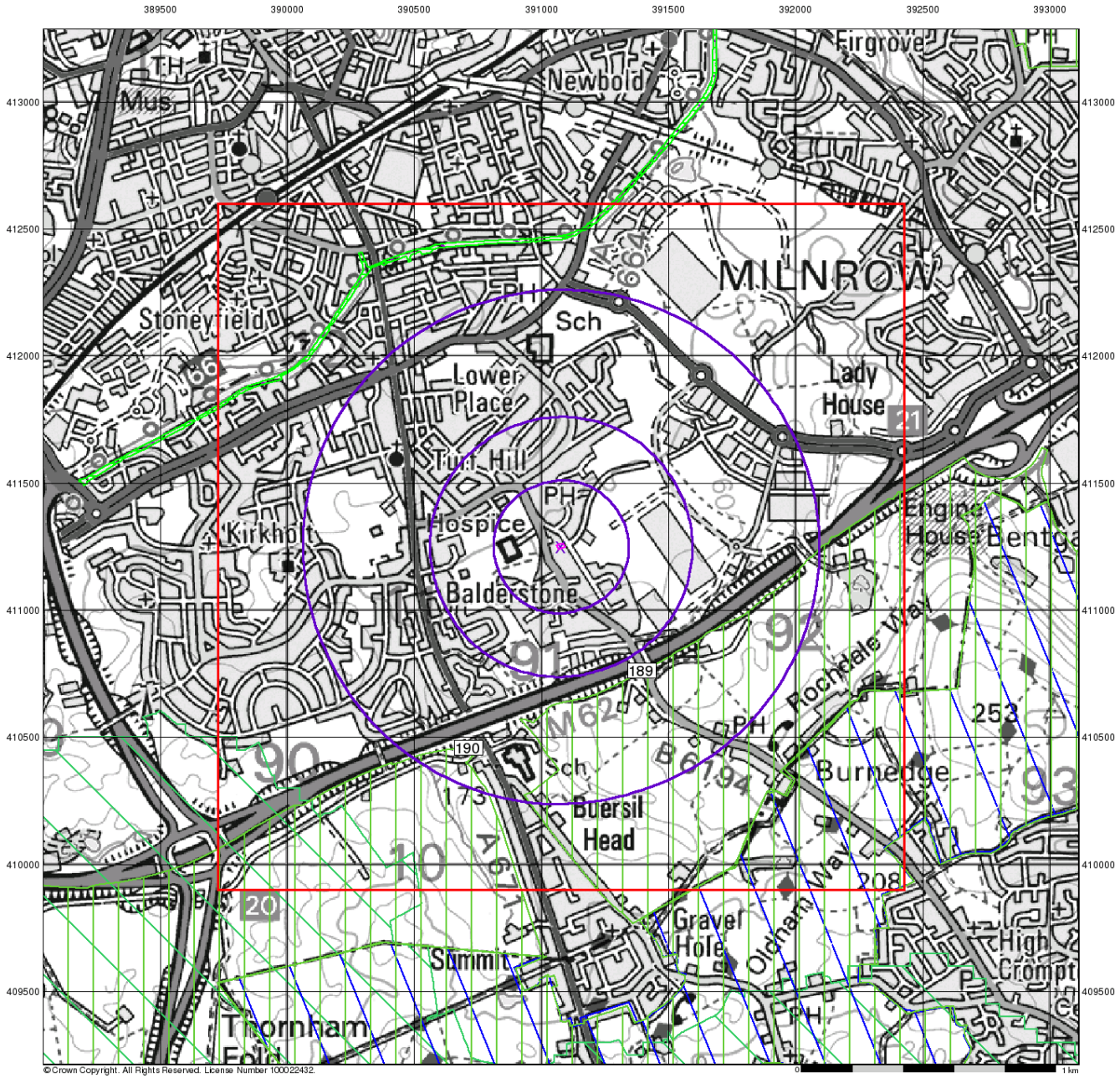


LK GROUP

Sensitive Land Uses

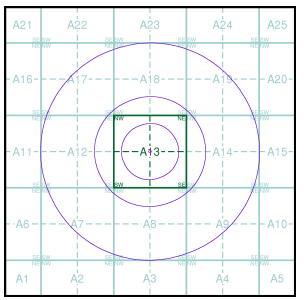
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine 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
- World Heritage Sites

Site Sensitivity Context Map - Slice A



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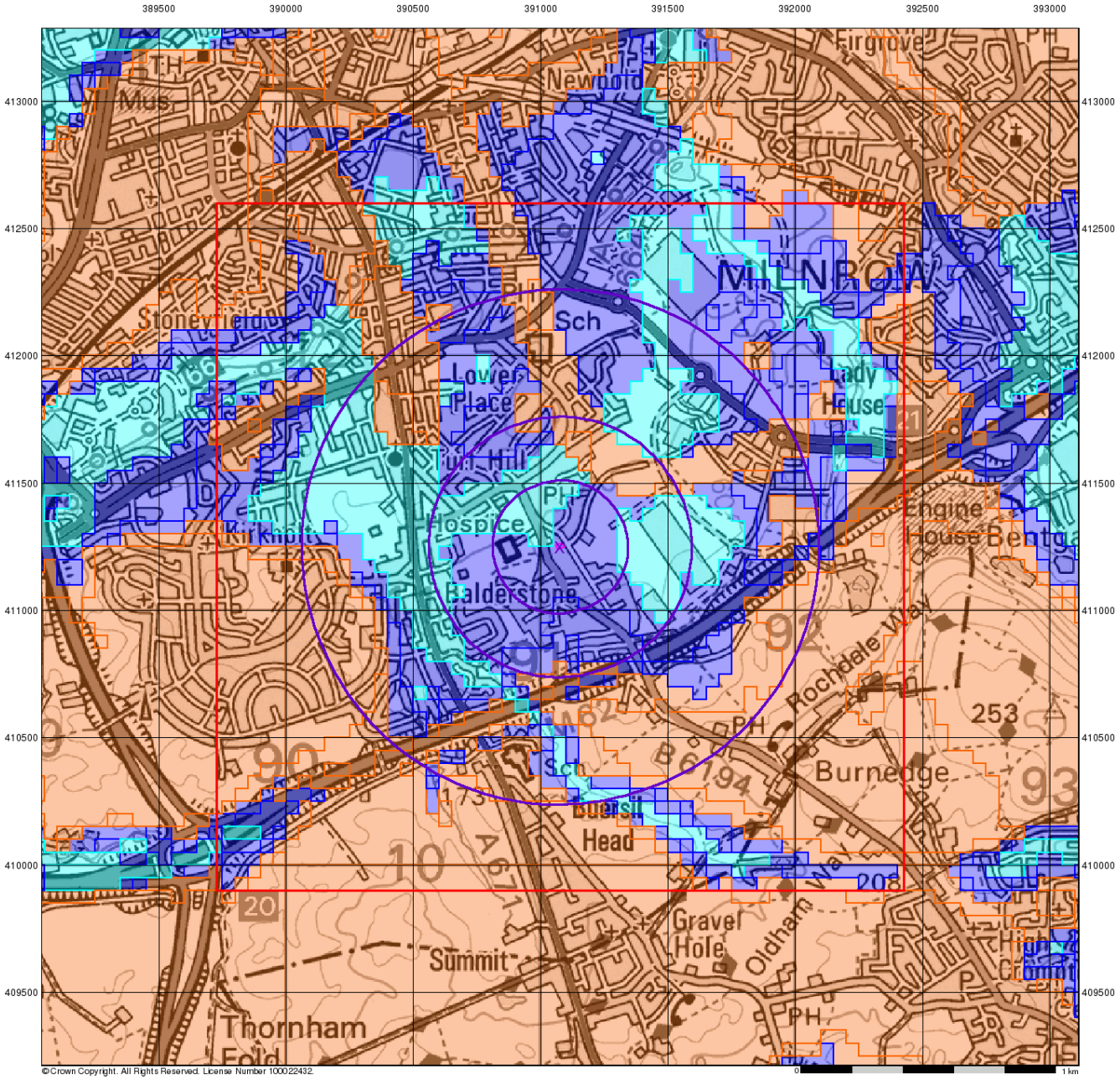


LK GROUP

BGS Flood GFS Data

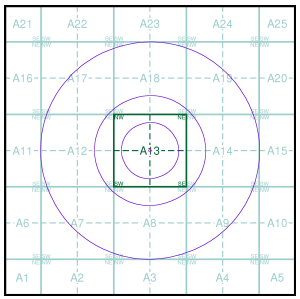
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



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Site Details

228 Broad Lane, Rochdale, OL16 4PR

Appendix C

Coal Authority Report

The Coal Authority

Resolving the impacts of mining

CON29M Non-Residential Mining Report





228 BROAD LANE
ROCHDALE
GREATER MANCHESTER



Date of enquiry:	14 December 2018
Date enquiry received:	14 December 2018
Issue date:	14 December 2018
Our reference:	51001978678003
Your reference:	189172946_2|

CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority, at the time we answer the search.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

228 BROAD LANE, ROCHDALE, GREATER MANCHESTER



Approximate position of property

Map data

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Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

/company/the-coal-authority
/thecoalauthority
/coalauthority

Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	No
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	No
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining
The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining
There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

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

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

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

10. Mine gas
The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining
The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

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

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

13. Working facilities order
The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. This report is prepared in accordance with the Law Society's Guidance Notes 2018, the User Guide 2006 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

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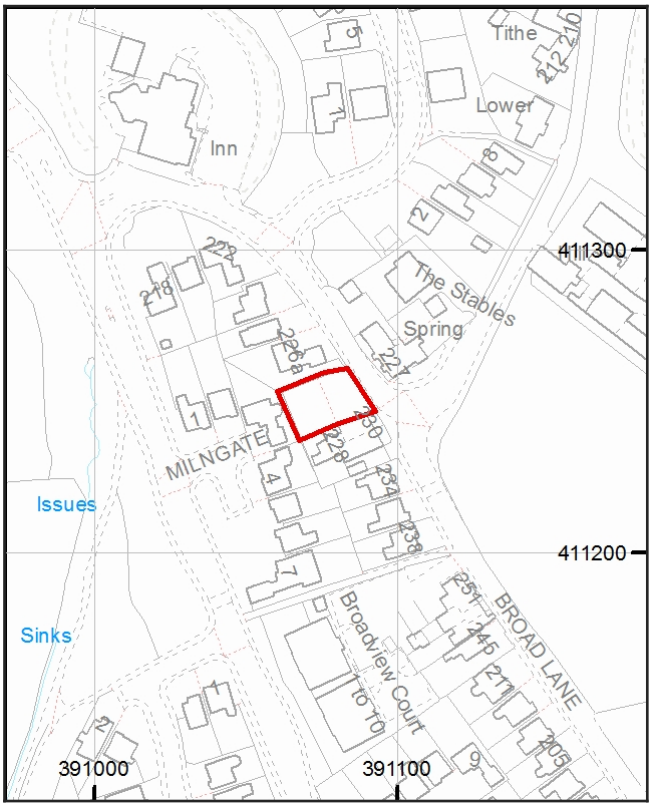
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



Map data

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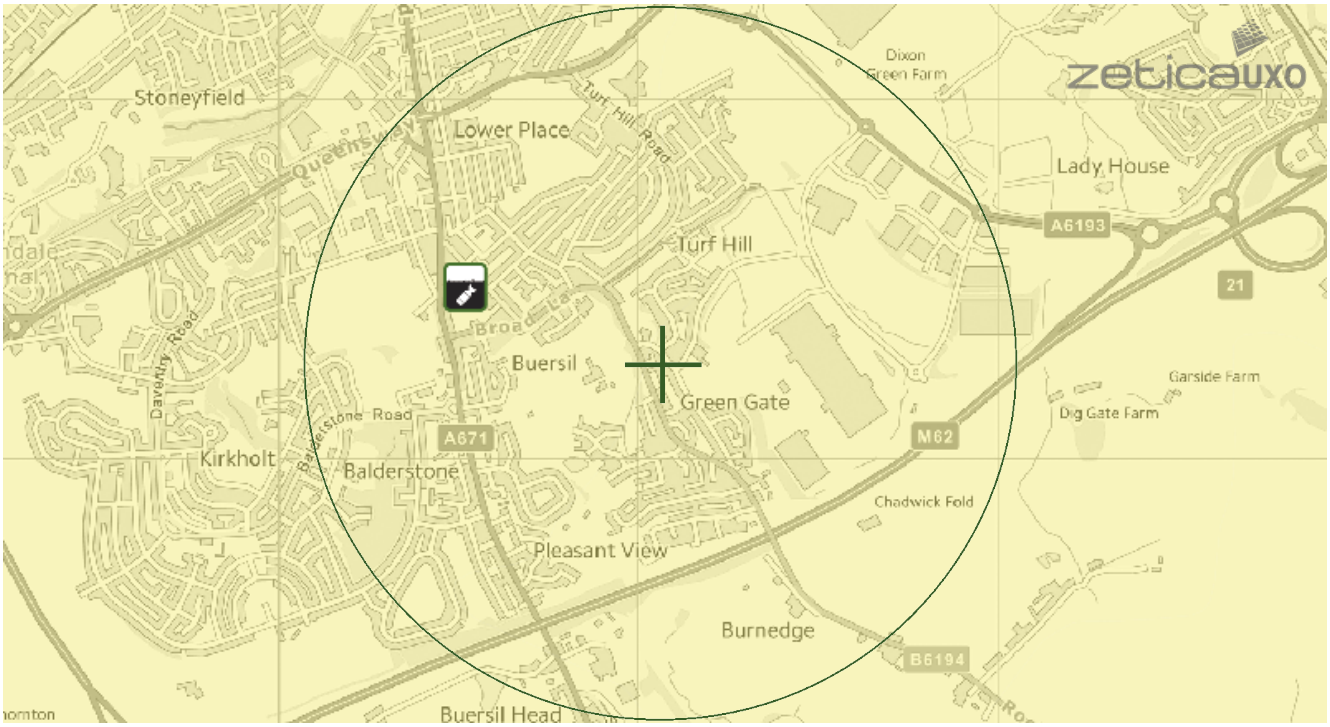
Appendix D

Zetica UXO Unexploded Bomb Risk Map

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Location: OL16 4PR,
Map Centre: 391074,411266



LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary | **industry** | **UXO find**
transport | **dock** | **Luftwaffe targets**
utilities | **other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Appendix E

Site Reconnaissance

Site Reconnaissance – Broad Lane, Rochdale



Photograph 1 (P1)
View of site from eastern boundary. Access to site off Broad Lane.



Photograph 2 (P2)
View to west. Most of the site is vegetated with two small trees in the northwest corner.



Photograph 3 (P3)
Mound of made ground in the centre of the site comprising glass, brick and gravel.



Photograph 4 (P4)
Concrete slab wall along the western boundary with a slope downwards to the wooden fence behind.



Photograph 5 (P5)
View of site from Broad Lane. A small brick wall forms the eastern boundary.



Photograph 6 (P6)
Hardstanding in the southeast of the site. A concrete driveway is present along the southeast boundary.

4.5

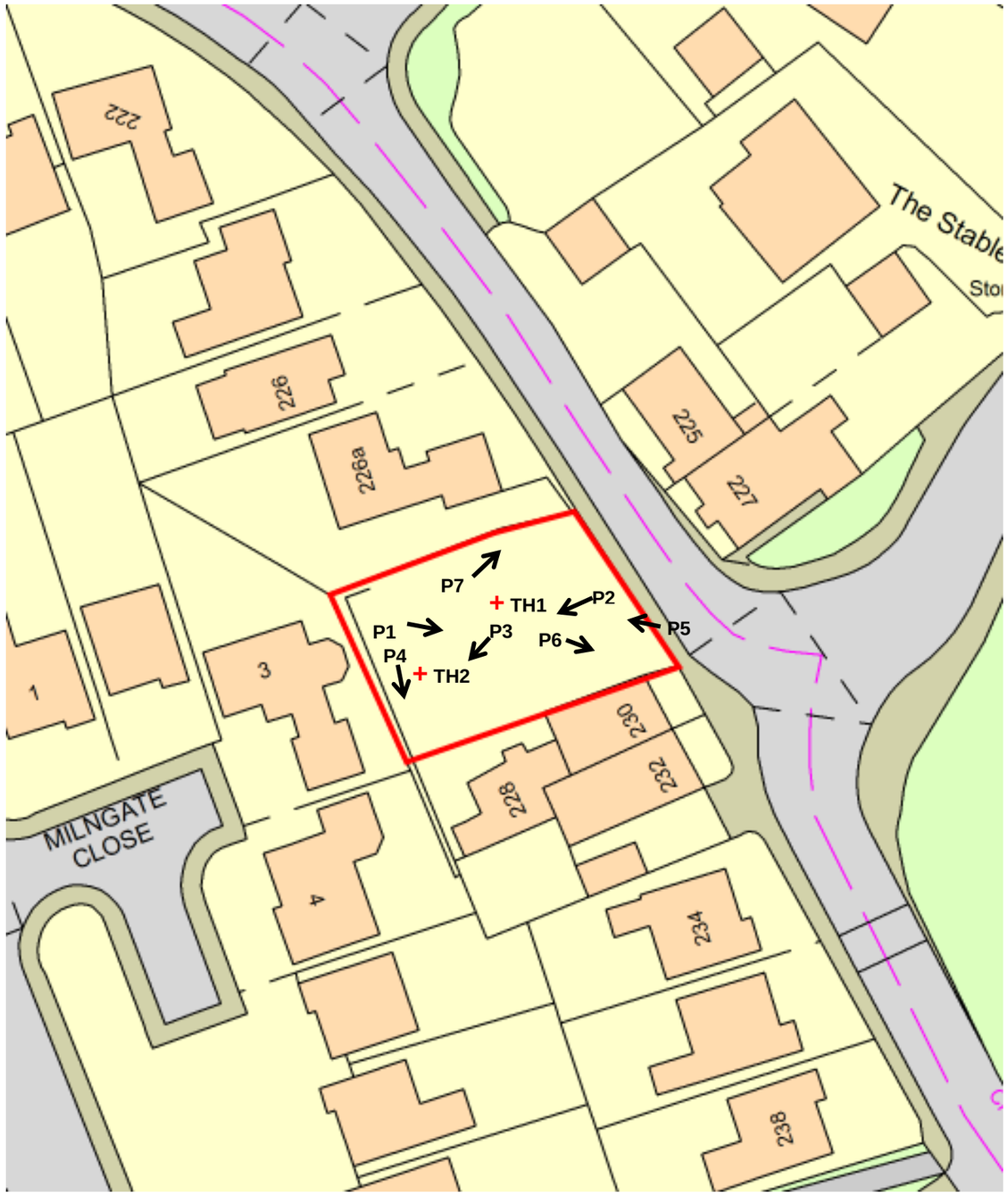


Photograph 7 (P7)
Wooden fencing along the northern boundary with a slope down to the fence.

Trial Hole 1 (TH1)
- Made ground: dark brown sandy silt with frequent rootlets, occasional clinker, rare brick and sandstone gravel to <0.4m.
- Pockets of light orangey brown very sandy silt.
- Gravel sandstone sub-angular.

Trial Hole 2 (TH2)
- Made ground: dark brown sandy silt with occasional rootlets, coal and clinker, rare brick and glass to 0.3m.
- Refused t 0.3m due to compact ground.

N



Not to Scale

Appendix F

Risk Matrix

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 552[10]. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table A).
- Magnitude if the probability (likelihood) of the risk occurring (Table B).

Consequence (Severity)		
Classification	**Definition**	**Example**
Severe	- Short term (acute) risk to human health likely to results 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 A: Classification of consequence.

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 B: Classification of probability.

[10] CIRIA (2001). "Contaminated Land Risk Assessment: A Guide to Good Practice". C552.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table C). 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 C: Comparison of consequence against probability.

Once the risk has been determined the corresponding action can be assessed (Table D).

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 sever harm to a designated receptor is currently happening. - This risk, if realised, is likely to results 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 D: Description of the classification and likely action required.

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.

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.

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- Land Remediation
- Project Management
- Land Drilling