

**GEOTECHNICAL AND GEO-ENVIRONMENTAL
SITE INVESTIGATION REPORT**

PHASE 3 LOWFIELD ROAD, BOLTON ON DEARNE,

FOR

GLEESON DEVELOPMENTS LIMITED

ISSUE 1



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FOR

GLEESON DEVELOPMENTS LTD

ISSUE 1

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1.0 EXECUTIVE SUMMARY

1. The site has an area of approximately 2.6 hectares and is located south of Lowfield Road, at Bolton On Dearne. The site is centred on National Grid Reference 446090, 402390 and comprises an undeveloped field.
2. The surface was covered with around 0.3 m of dark brown clayey sandy topsoil overlain by grass. No made ground was encountered on site. The natural ground comprises brown and light brown fine to coarse brown gravelly sand, occasionally clayey, to depths of between 0.5 m and 2.2 m bgl, over moderately strong sandstone, which was recovered as gravel and cobbles in a sand matrix.
3. For the low rise housing scheme proposed, the most suitable foundations are considered to be unreinforced strip or trench fill footings taken through any soft ground at a minimum depth of 750 mm below ground level. If competent sandstone is encountered at shallower depths, no further excavations are required.
4. Variable infiltration rates were recorded. Soakaways are not considered to be a viable solution for surface water drainage.
5. Service records show an underground electric cable and a gas pipe to cross the site from the north west to the south east. Strong rock is also expected at shallow depth.
6. Significant contamination was not encountered in the materials tested. Remedial measures are not considered necessary. The topsoil can be considered suitable for re-use.
7. DS-1 AC-1 sulphate precautions are appropriate for the below ground concrete on the site.
8. The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies such as the Local Authority and your warranty provider.

2.0 INTRODUCTION

2.1 Terms of Reference

This report presents the findings of a geotechnical and geo-environmental site investigation carried out by Eastwood & Partners (Consulting Engineers) Ltd for, and on the behalf of Gleeson Developments Ltd. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

2.2 Context

No previous geotechnical or geo-environmental investigations are known to have been undertaken on the site in the past.

2.3 Aims and Objectives

The aims and objectives of this investigation were as follows:

- Assimilate Phase 1 data to derive an outline conceptual model identifying potential contaminants, pathways and receptors, as well as possible linkages between these;
- Obtain information enabling refinement and subsequent testing of the conceptual model;
- Carry out tiered risk assessment to establish the likely risks to future receptors, involving the use of generic assessment criteria and where unacceptable risks are identified, site specific assessment criteria within a detailed quantitative risk assessment;
- Identify feasible remediation options if unacceptable risks are highlighted;
- Develop an appropriate remediation strategy where remediation is required; and
- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made.

2.4 Scope of Investigation

This document is split into two sections. These constitute the findings of the Phase 1 and Phase 2 investigations, consecutively.

2.4.1 Phase 1

The Phase 1 investigation involved a review of information extracted from published documentation as well as that obtained from a site reconnaissance. Information regarding the current and former land uses both on and surrounding the site, as well as the environmental sensitivity of the site location as determined by factors including geology, hydrogeology and hydrology have been examined.

Information analysed in this section of the report has been obtained from a variety of sources and included the following:

- A Landmark Envirocheck Report. This includes historical Ordnance Survey maps, as well as information regarding environmental issues such as abstraction licenses, pollution incidences and waste facilities;
- Coal Authority Report;
- British Geological Survey maps and memoirs;
- A site walkover.

The results of the Phase 1 investigation were used to derive an outline conceptual model from which a preliminary risk assessment was made.

2.4.2 Phase 2

This part of the investigation consisted of intrusive works and laboratory analysis. The findings were used to test the conceptual model and produce a final risk assessment.

The intrusive works comprised trial pits which were excavated to enable:

- Examination of the upper few metres of ground;
- In situ description of soils, enabling any localised lateral and vertical changes in soil conditions to be logged;
- Assessment of any contamination identified using visual and olfactory methods;
- Collection of soil samples for chemical testing;
- Infiltration tests to be undertaken.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with houses up to three storeys in height, with private gardens. These will be of conventional construction and existing ground levels will not alter significantly. If this is not the case, then the advice given in this report may not be appropriate.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the ground conditions encountered during the site work, on the results of laboratory testing carried out as part of the investigation and information gained from a geological and historical desk study. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata and water conditions between or below investigation points. It should be noted that groundwater varies due to seasonal or other effects, and may at times differ from this measured during the investigation.

3.0 THE SITE

3.1 Description

The site has an area of approximately 2.6 hectares and is located south of Lowfield Road, at Bolton Upon Dearne. The site is centred on National Grid Reference 446090, 402390 and comprises an undeveloped field.

The '*Exploratory Hole Location Plan*', drawing 37205/006/A in Appendix 1, shows the features described.

3.2 History

Historical maps, obtained as part of the Envirocheck Report, have been reviewed to assess the previous use of the site and surrounding area. Copies of the maps are presented in Appendix 2.

3.2.1 The Site

The earliest historical map, dated from 1851 to 1855, indicates the site to comprise agricultural land with a field boundary that trends north east to south west across the centre of the site. By 1962 the field boundary has been removed. The site has remained undeveloped to the present day.

3.2.2 The Surrounding Area

The earliest historical map reviewed, dated from 1851 to 1855, records the surrounding area to be predominantly agricultural fields. Lowfield Lane runs approximately north west to south east around 50 m north of the site. At its closest, the River Dearne lies approximately 110 m from the site's southern boundary and flows towards the east/south east. The town of Bolton Upon Dearne lies around 300 m to the west of the site.

By 1893, the Midland and North-Eastern Railway line has been constructed approximately 160 m west of the site, running north to south.

In 1903, sewage works are labelled on the map, just east of the railway line, about 110 m south west of the site. Between 1903 and 1907, an old clay pit can be observed around 550 m north east of the site. The sewage works have expanded by 1930, and now located approximately 25 m from the south western corner of the site. Residential buildings and allotment gardens have also been constructed along the northern side of Lowfield Lane.

In the subsequent years, residential development has continued in the wider surrounding area.

In 1976, a factory has been constructed on the adjacent land about 150 m west of the site. By this time the original course of the River Dearne has been straightened. An embankment runs along the north side of the river channel, southeast of the site.

Between 2006 and 2014, the Lowfield Lakes complex has been constructed immediately south of the site. By the present day, the factory west of the site has been demolished and the area of the disused tips has been developed as parks and woodland.

3.3 Geology

The Geological Map Sheet 283 NE (1:10560 scale) shows the site to overlie Middle Coal Measures strata, comprising mainly interbedded mudstones and sandstones. The strata are anticipated to dip to the north east at less than 5°.

Faults are present within the Barnsley coal seam at depth but should not affect the development.

No superficial deposits are shown to overlie the site.

BGS borehole records have been reviewed for the local area. One historical borehole is located within the site, reference SE40SE64. This records around 45 feet (14 m) of Mexborough Rock sandstone, with a coal seam 0.75 m thick around 14 m below the base of the sandstone.

3.4 Hydrogeology

3.4.1 Groundwater Vulnerability

The Envirocheck Report states that the site overlies a Secondary A Aquifer, comprising permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

3.4.2 Water Abstractions

The Envirocheck Report indicates there are no groundwater abstractions within 250 m of the site.

3.5 Hydrology

The Envirocheck Report indicates that the nearest surface water feature is 13 m south west of the site. This is expected to refer to the Lowfield Lakes complex.

According to the Envirocheck Report, the site is not located within a Groundwater Source Protection Zone.

3.6 Mining

From the BGS borehole information, the site is expected to lie towards the base of Mexborough Rock. The shallowest named coal seam is therefore expected to be the Double Smuts coal, found in the BGS borehole to lie around 14 m below the base of the Mexborough Rock and 28 m below site. The seam was found to be 0.75 m thick. The geological memoir does not suggest that the seam is of good quality and it does not refer to it having been worked in the area. Even if the seam was worked, it is expected to lie at a depth at which grouting is not required. Precautions against the effects of shallow mining are therefore not considered necessary.

A Coal Authority report has been obtained and is enclosed in Appendix 2. This states that the site is within the likely zone of influence from workings in five seams of coal at 220 m to 690 m depth, and last worked in 1972. Any ground movement from these coal workings should have stopped by now.

The site is not within the likely zone of influence from any present or future underground coal workings, however, reserves of coal exist in the locality which could be worked at some time in the future subject to feasibility, licences and planning consents. There are no recorded mine shafts or entries within 20 m of the site boundary, although the Coal Authority records may not be complete. The Coal Authority Report states there is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property

The Coal Authority Report also states the site is within an area for which entitlement to withdraw support was published in 1942 and 1982. This has not yet been revoked, however, it is unlikely that underground seams will be mined further in the future, mainly due to the site's location in a built up area.

3.7 Ground Gas

The Envirocheck Report states that the site is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level. However, the Envirocheck Report indicates that the site lies in an area where no radon precautions are required.

The Envirocheck Report indicates that the site is not within 500 m of an active or historic landfill. Deep made ground is not expected across the site, as there is no evidence of past development. Ground gas precautions are not considered necessary.

3.8 Pollution Incidents to Controlled Waters

The Envirocheck Report indicates there are six pollution incidents to controlled waters within 250 m of the site boundary. One was classified as a major incident. It occurred 98 m from the site on Lowfield Road. Unknown sewage was released into a freshwater stream/river in February 1989.

Four incidents were classed as significant. These occurred between 1989 and 1992, at distances of between 100 and 192 m from the site. One occurred on Lowfield Road and the others occurred on Road Bridge/Bolton Bridge B6098. The pollutants were either of treated or unknown sewage, and were received by a freshwater stream/river. The last incident occurred in 1992, 200 m from the site boundary. This was again at Road Bridge/Bolton Bridge B6098. It was a minor incident and the pollutant type received by a freshwater stream/river is unknown.

3.9 Discharge Consents

The Envirocheck Report indicates the nearest discharge consents to be registered to the sewage works, south west of the site.

3.10 Flooding

Information provided in the Envirocheck Report does not show the site to lie within a flood plain. However, a full flood risk assessment will be required due to the size of the site. Additionally, land adjoining the site to the south and east is shown on historical maps to be at risk from flooding.

4.0 OUTLINE CONCEPTUAL MODEL

The site is being considered for development with housing, with private gardens and areas of associated soft landscaping and hardstanding.

The site has not previously been developed. The topsoil and natural ground may contain naturally elevated heavy metals such as arsenic. Polycyclic aromatic hydrocarbons may also be present. The natural ground may contain sulphates.

The following table details the possible sources and associated contaminants of concern, pathways and receptors, highlighted by the Phase 1 investigation as potentially present.

4.1 Possible Significant Pollutant Linkages

Potential Contaminants	Pathway	Receptor
Heavy metals and PAHs in topsoil or any made ground.	Ingestion, inhalation, direct contact	Site workers, future residents, plants
	Migration through ground	Principal aquifer
Naturally elevated levels of heavy metals in the natural ground	Ingestion, inhalation, direct contact	Site workers, future residents, plants
	Migration through ground	Principal aquifer
Sulphates in natural ground and in any made ground	Direct contact	Below ground concrete
	Migration through ground	
PAH in the natural ground and in any made ground	Direct contact	Water supply pipes
	Migration through ground	

5.0 GROUND INVESTIGATION

5.1 Site Works

We visited site on 08 October 2014 and excavated fifteen trial pits, TP1 to TP15, using a JCB 3CX excavator in order to determine the underlying ground conditions. These reached depths of between 1.35 and 2.35 m below ground level. Four additional pits (referenced SA1 to SA4) were excavated on 09 October 2014 and used for soakaway testing.

Copies of the trial pit logs are presented in Appendix 3, and their positions are plotted on the Exploratory Hole Location Plan, Drawing number 37666/006A in Appendix 1.

5.2 Laboratory Testing

Ten samples of topsoil and three samples of natural ground were dispatched for chemical testing. Soil samples were taken in 500 g plastic tubs and 60 ml Amber jars. All samples were analysed at Chemtech Laboratories, using MCERTs accredited methodologies where available.

Laboratory testing results are presented in Appendix 5 and discussed further in Sections 8.0 to 9.0.

6.0 GROUND CONDITIONS

6.1 Surface Covering

The surface was covered with grass over around 0.3 m of dark brown clayey sandy topsoil.

6.2 Made Ground

No made ground was encountered within the exploratory holes.

6.3 Natural Ground

The natural ground comprises brown and light brown fine to coarse brown gravelly sand, occasionally clayey, to depths of between 0.5 m and 2.2 m bgl, over moderately strong sandstone, which was recovered as gravel and cobbles in a sand matrix.

6.4 Obstructions

No obstructions were encountered during the investigation.

Service records show an underground electric cable and a gas pipe to cross the site from the north west to the south east.

6.5 Groundwater

No groundwater was recorded during the excavations.

6.6 Evidence of Contamination

No visual or olfactory evidence of significant contamination was identified in any of the exploratory holes.

7.0 GEOTECHNICAL APPRAISAL

7.1 General

The ground conditions on site generally comprise around 0.3 m of topsoil over brown fine to coarse, occasionally clayey, gravelly sand, to depths of between 0.5 m and 2.2 m bgl, over sandstone recovered as gravel and cobbles in a sand matrix. No groundwater was encountered.

7.2 Foundations

For the low rise housing scheme proposed, the most suitable foundations are considered to be unreinforced strip or trench fill footings taken through any made or soft ground and founded at a minimum depth of 750 mm below ground level in sand. If competent sandstone is encountered at shallower depths, no further excavations are required.

7.3 Ground Slabs

A ground bearing slab may be considered where there is less than 600 mm of made ground beneath the floor slab, which appears to be the case for this site. If levels are to be raised, a reinforced suspended or precast concrete floor should be used.

7.4 Superstructure Precautions

Superstructure precautions are not considered to be required as a result of the ground conditions encountered within the trial pits.

7.5 Excavation Problems

Excavations may be difficult within the sandstone, which was found at depths as shallow as 0.5 m.

An underground electric cable and a gas pipe are crossing the site, and will need to be diverted.

The sides of trenches and excavations may be slightly unstable within the sand and temporary support may possibly be required in some areas.

Where excavations which workers are required to enter are over 1.2 m deep, or less where there is a risk of harm from collapse of the sides of the excavation, the sides should be supported or battered back to make them safe.

7.6 Roads

The natural ground encountered in the upper 600 mm generally comprised occasionally clayey, gravelly sand. This is likely to have a CBR value of at least 3%. It is recommended that this value is used as a guide only and that full scale CBR tests are undertaken along roadways prior to construction so that accurate values can be obtained to satisfy the Local Authority.

7.7 Surface Water Drainage

Four pits, referenced SA1 to SA4, were excavated for soakaway testing. The infiltration calculations and results are provided in Appendix 4. Eight infiltration tests were carried out across the four pits.

Test	Water Level	BR365 Infiltration Rate (m/sec)	Average Infiltration Rate (m/sec)
SA1 (1)	440 mm in 96 minutes	35×10^{-06}	N/A
SA1 (2)	400 mm in 172 minutes	20×10^{-06}	N/A
SA1 (3)	180 mm in 60 minutes	N/A	19×10^{-06}
SA2 (1)	400 mm in 194 minutes	20×10^{-06}	N/A
SA2 (2)	260 mm in 141 minutes	N/A	14×10^{-06}
SA3	390 mm in 290 minutes	10×10^{-06}	N/A
SA4 (1)	420 mm in 94 minutes	57×10^{-06}	N/A
SA4 (2)	230 mm in 110 minutes	N/A	13×10^{-06}

Generally, moderate to poor infiltration rates were recorded. Soakaways are therefore not considered to be a viable method of surface water drainage for the proposed development.

8.0 REFINEMENT OF OUTLINE CONCEPTUAL MODEL

8.1 Source Characterisation

An outline conceptual model, detailing the possible sources and associated contaminants of concern, potential pathways and receptors identified in the Phase 1 report, is set out in Section 4.0 above.

This section of the report documents the works undertaken to obtain information to test and refine this model enabling a risk assessment to be produced and, where significant risks are expected, remediation recommendations.

8.2 Gas Precautions

The site is in an area where no radon protections are required for new dwellings.

The Envirocheck Report indicates that the site is not within 500 m of a current or historic landfill. Made ground has not been encountered on site. Ground gas precautions are not considered to be necessary.

8.3 Unexpected Contamination

No visual or olfactory evidence of significant contamination was identified during the site investigation.

8.4 Chemical Testing

Ten samples of topsoil and three samples of natural ground were dispatched for chemical testing. Each of the samples was analysed for the suite of contaminants listed in the table below:

Contaminant Type	Actual Contaminants
Metals/Metalloids	Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel, Selenium, Copper and Zinc
pH	pH
PAHs	Speciated PAH
Sulphates*	Water soluble sulphate, acid soluble sulphate and sulphur

*Natural ground only

8.5 Assessment Criteria

The proposed development of the site is for residential properties with private gardens. Therefore the assessment criteria relating to a residential end use have been used. Tables detailing the relevant assessment concentrations used are included in Appendix 5.

8.6 Chemical Test Results

8.6.1 Topsoil

None of the tested determinands exceeded their respective assessment values.

8.6.2 Natural Ground

None of the tested determinands exceeded their respective assessment values.

8.6.3 Sulphates

The site has been taken as a greenfield location in relation to the Aggressive Chemical Environment for Concrete calculations.

Tests for total sulphur indicate that the total potential sulphates for the natural ground are less than 0.03%, compared with upper class limit of 0.24% for class DS-1.

The concentrations of water soluble sulphate in the natural ground are below 10 mg/l, compared with the upper limit of Design Sulphate Class 1 of 500 mg/l.

pH levels for the natural ground samples varies between 6.9 and 7.4.

9.0 RISK ASSESSMENT

9.1 Human Health: Future Residents and Visitors

The results of the chemical testing undertaken indicate that the topsoil and natural ground on the site are not considered to pose a significant risk to the health of future residents, visitors or other site users.

The topsoil can be considered to be suitable for re-use in the proposed development.

9.2 Human Health: Construction Workers

Significant contamination was generally not encountered. Normal precautions, such as washing hands before eating, should be sufficient to mitigate any risk posed to construction workers. Any unusual, brightly coloured or odorous material encountered during construction should be brought to the attention of the site staff and investigated.

9.3 Plants

Significantly elevated concentrations of phytotoxic elements were recorded. Therefore, no significant risk to plants is anticipated from the soils on site.

9.4 Concrete

The chemical test results indicate DS-1 AC-1 sulphate precautions are appropriate for underground concrete.

9.5 Controlled Waters

No significant risks are expected to be posed to controlled waters.

9.6 Disposal of Material

If material needs to be removed, it should to be taken to a suitably licensed landfill or waste treatment facility. The costs of disposal and landfill tax can be substantial. The disposal of material should therefore be seen as a last resort with options such as treatment and reuse either on-site or off-site considered where possible.

The category of landfill which can accept the waste (inert, non-hazardous or hazardous) would need to be determined and will also have a significant effect on the costs. Additional testing may be required by the landfill operator and the acceptance of material is generally at their discretion.

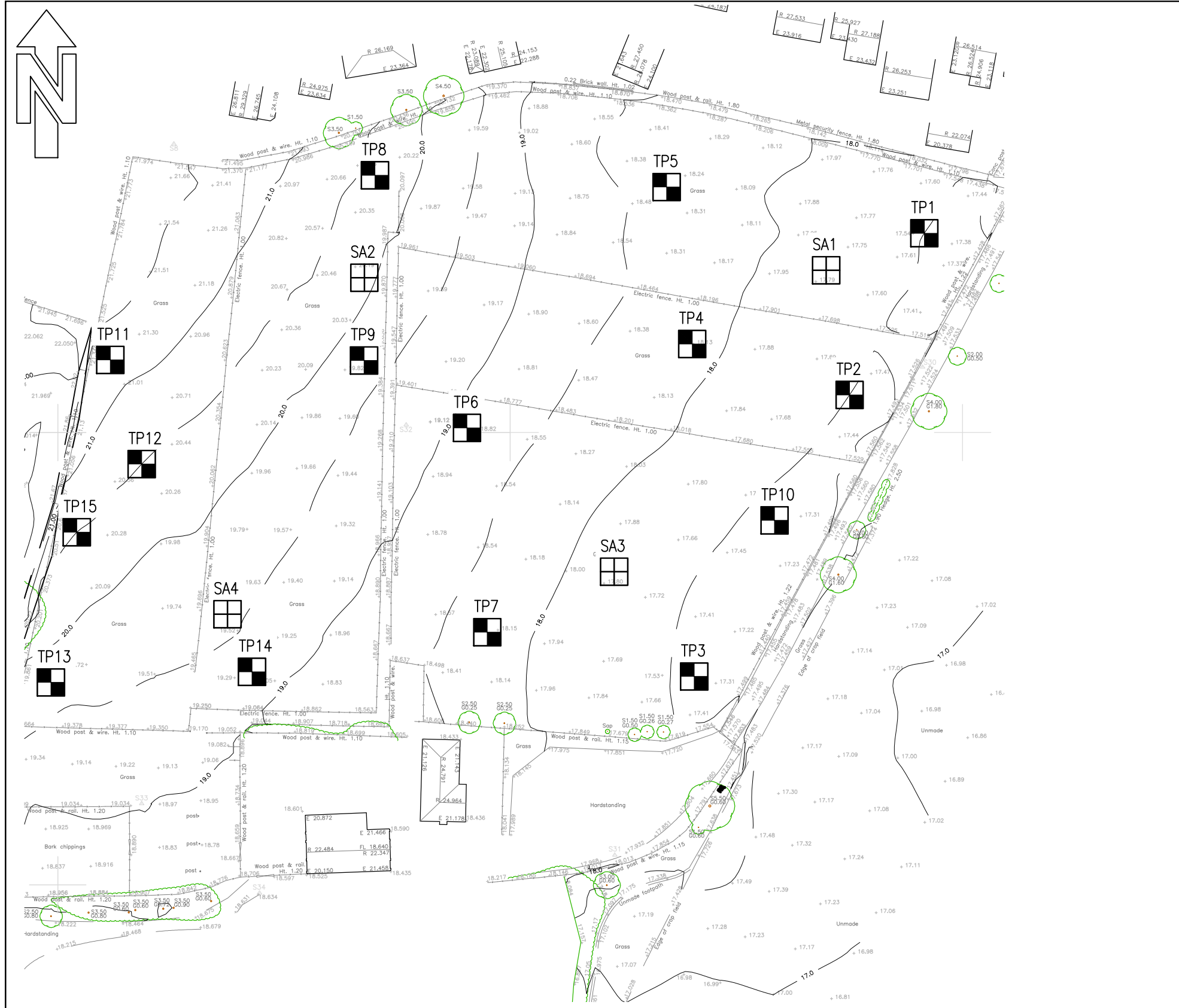
10.0 CONTAMINATION - RECOMMENDATIONS AND APPROVALS



1. Significant contamination was not encountered in the materials tested. Remedial measures are not considered necessary. The topsoil can be considered suitable for re-use.
2. DS-1 AC-1 sulphate precautions are appropriate for the below ground concrete on the site.
3. The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies such as the Local Authority and your warranty provider.

Appendix 1

'Exploratory Hole Location Plan', Drawing Number 37666/006A

Information within this drawing is not necessarily produced to scale.
Always use figured dimensions and co-ordinates – if in doubt, ask.



-  Approximate location of trial pits excavated by Eastwood & Partners on 08/10/14.
-  Approximate location of soakaway tests undertaken by Eastwood & Partners on 09/10/14.

For Western part of the site, please refer to 37666/007.

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GLEESON DEVELOPMENTS LTD
LOWFIELD ROAD PHASE 3, BOLTON ON DEARNE
EXPLORATORY HOLE LOCATION PLAN

A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE
SCALE WHEN PLOTTED AT A3 1:1000		DRAWING STATUS PRELIMINARY		
DRAWN RH	CHECKED MM	DATE 10.10.14	DRAWING NUMBER 37666/006	REV A

Appendix 2
Envirocheck Report

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		Minor Roads		
	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				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	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		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, 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

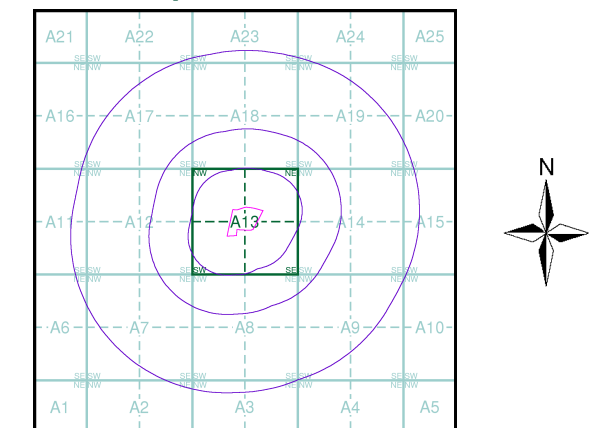
1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	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)
	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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1851 - 1855	2
Yorkshire	1:10,560	1893	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1903 - 1907	5
Yorkshire	1:10,560	1931 - 1932	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948 - 1950	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1966 - 1967	10
Ordnance Survey Plan	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1980 - 1988	12
Ordnance Survey Plan	1:10,000	1989	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2014	15

Historical Map - Slice A



Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ

Yorkshire

Published 1851 - 1855

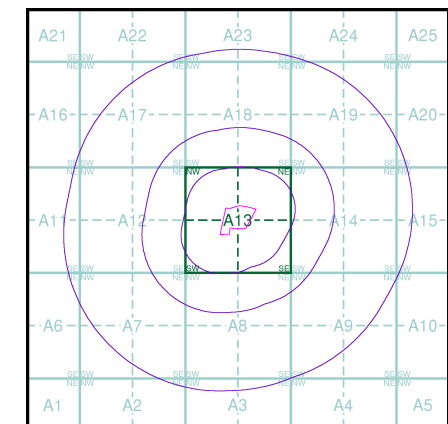
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

27500 1854 1:10,560	27600 1851 1:10,560
28300 1855 1:10,560	28400 1854 1:10,560

Historical Map - Slice A

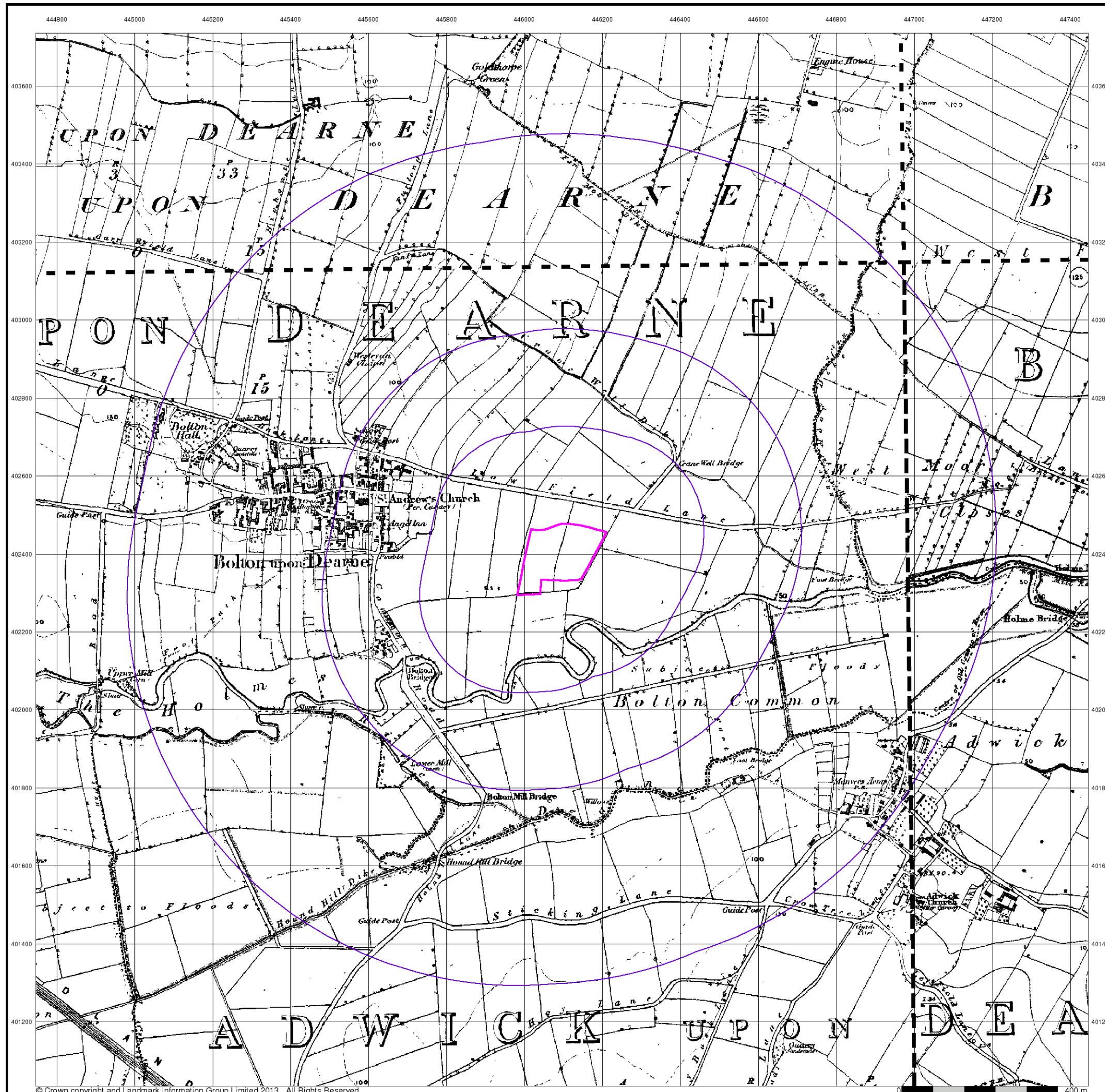


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Yorkshire

Published 1893

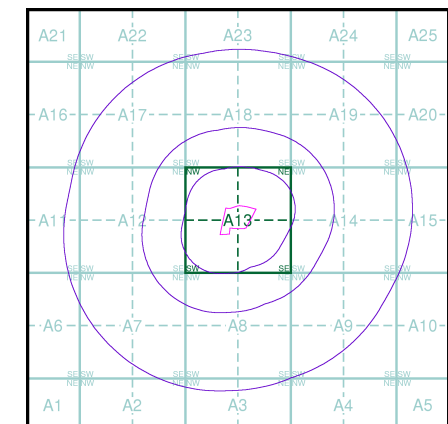
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

276SW	1893	1:10,560
283NE	1893	1:10,560
284NW	1893	1:10,560

Historical Map - Slice A

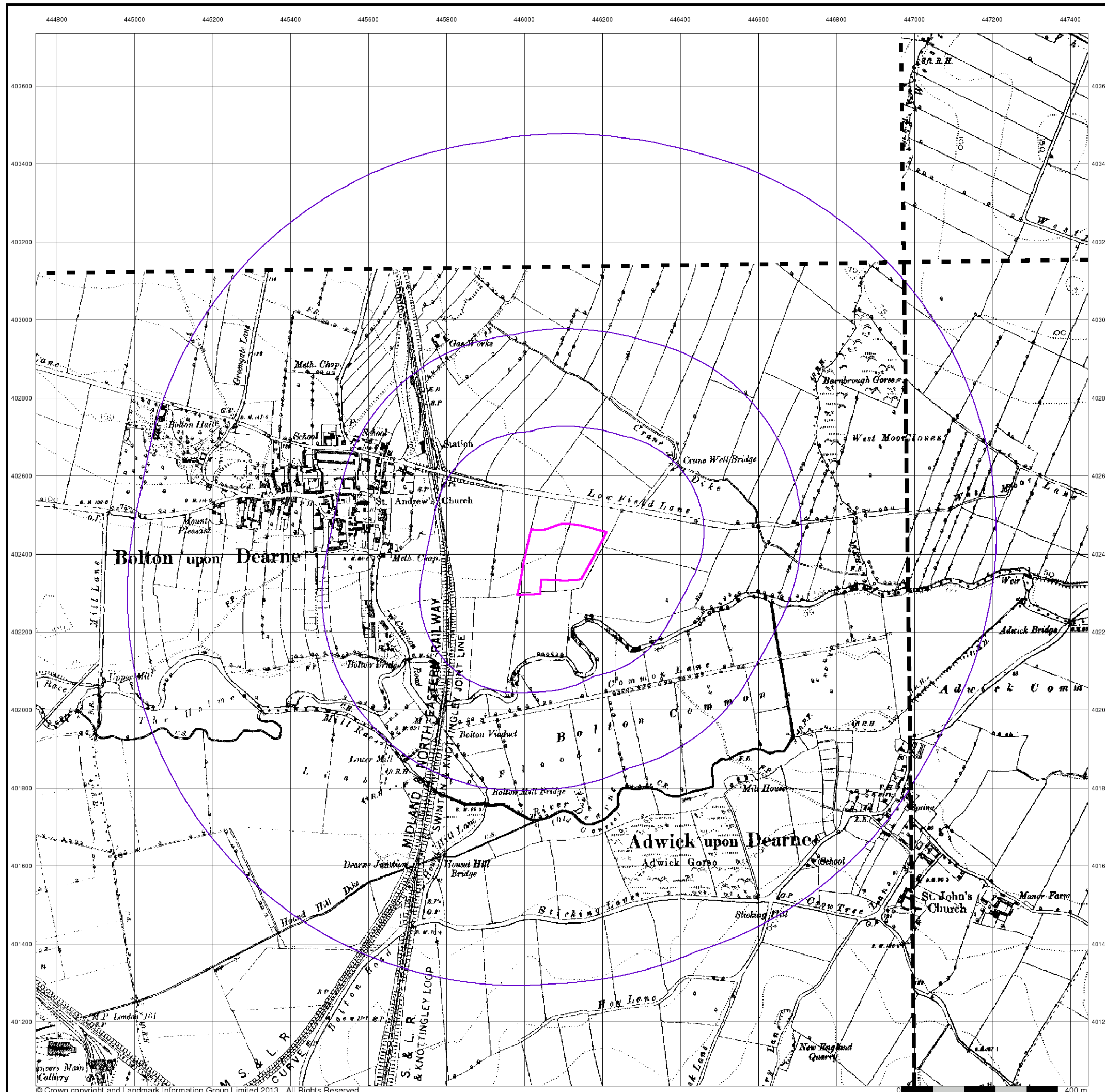


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



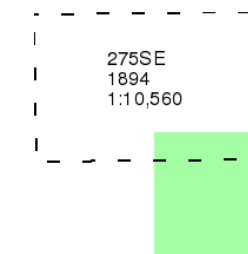
Yorkshire

Published 1894

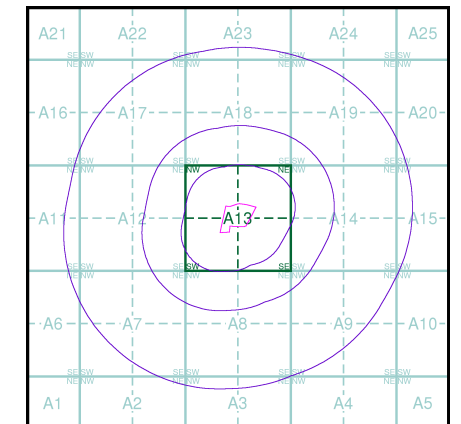
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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

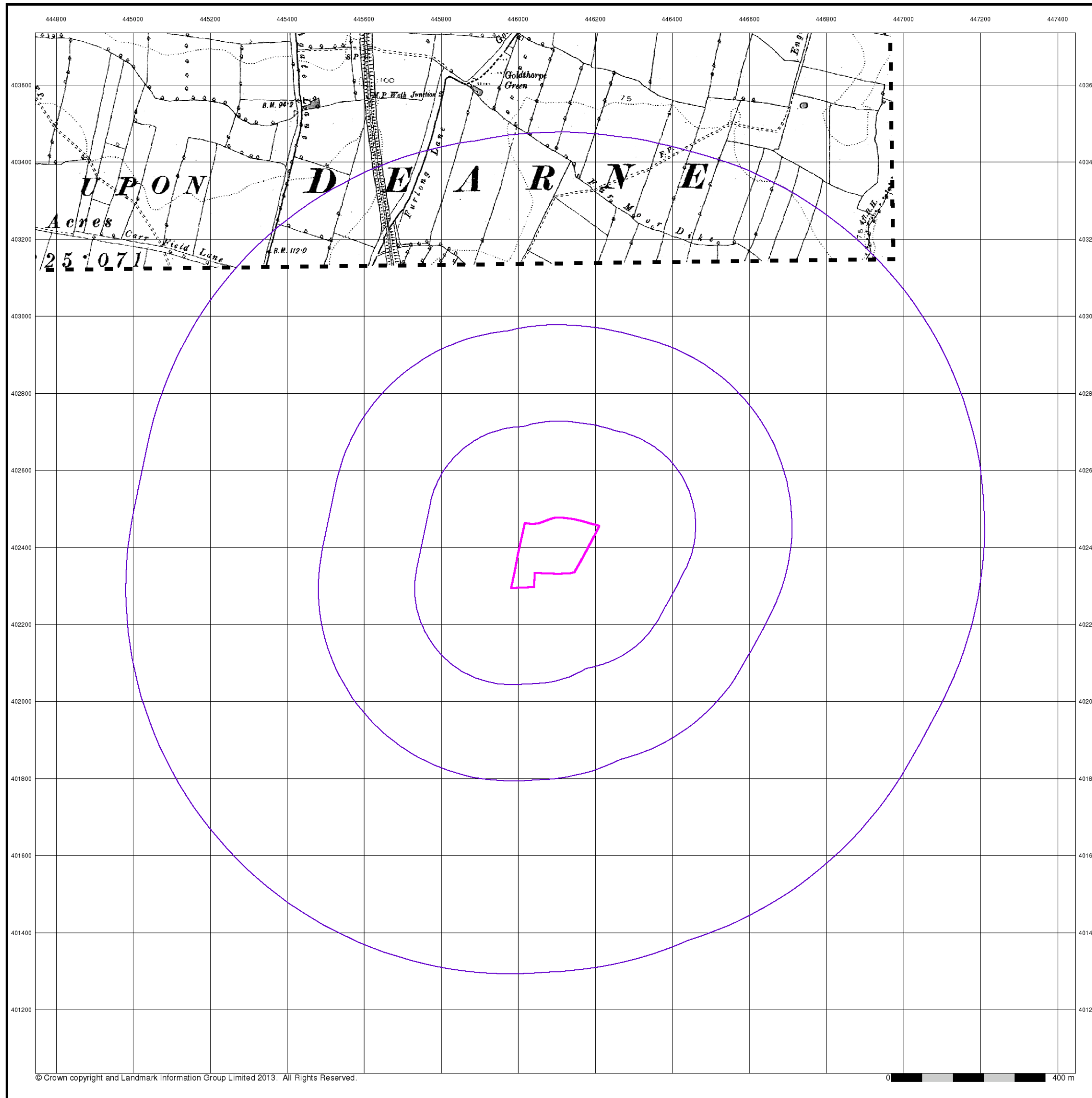


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Yorkshire

Published 1903 - 1907

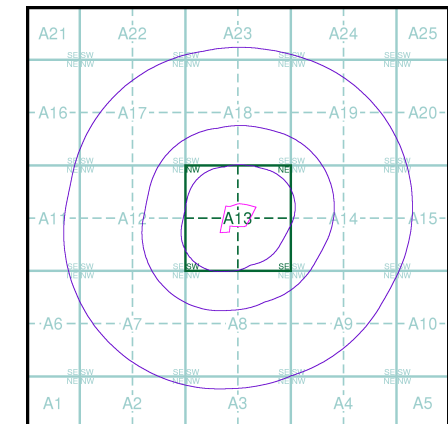
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

275SE 1906 1:10,560	276SW 1907 1:10,560
283NE 1905 1:10,560	284NW 1903 1:10,560

Historical Map - Slice A

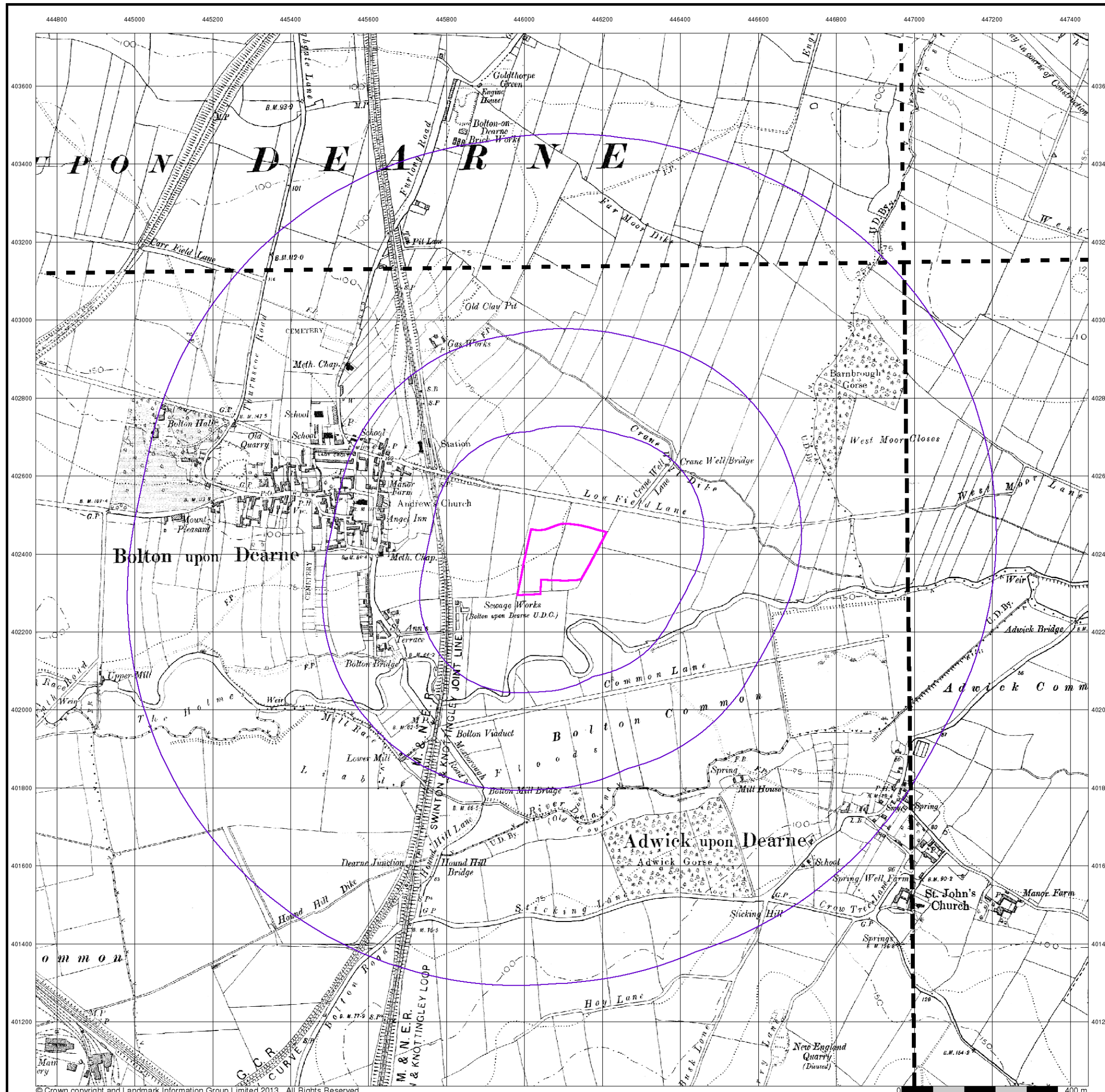


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Yorkshire

Published 1931 - 1932

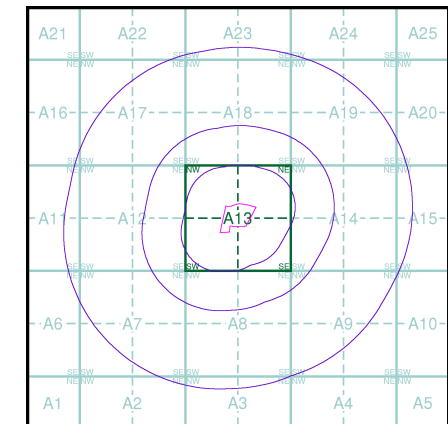
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

275SE 1931 1:10,560	276SW 1932 1:10,560
283NE 1932 1:10,560	284NW 1932 1:10,560

Historical Map - Slice A

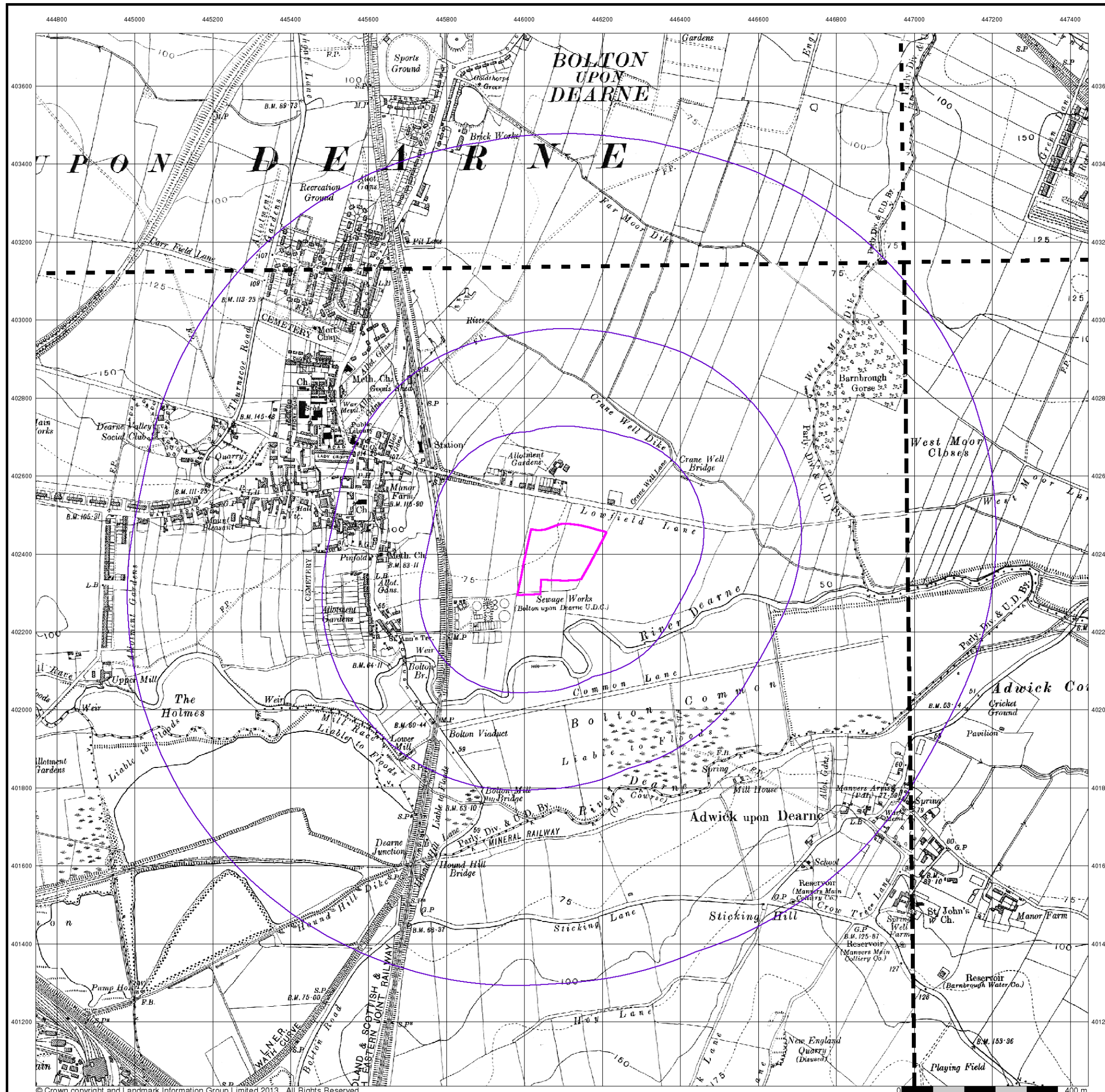


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearn, ROTHERHAM, South Yorkshire, S63 8JQ



Yorkshire

Published 1938 - 1948

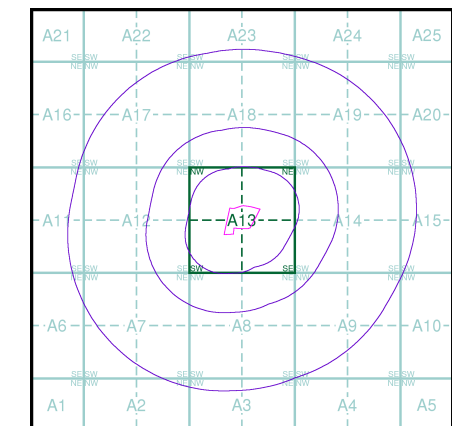
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

275SE 1938 1:10,560	276SW 1948 1:10,560
283NE 1938 1:10,560	284NW 1948 1:10,560

Historical Map - Slice A

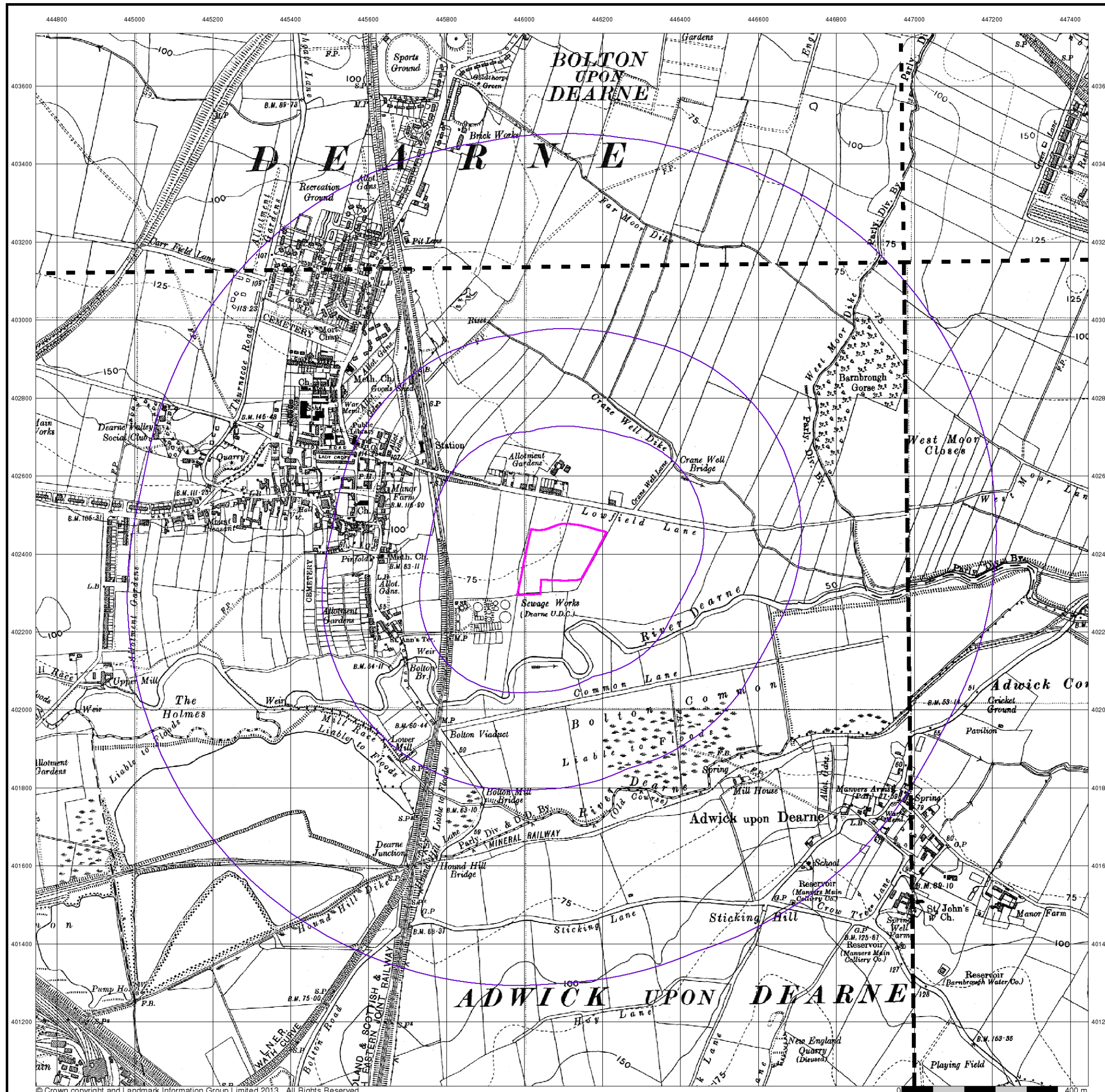


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Yorkshire

Published 1948 - 1950

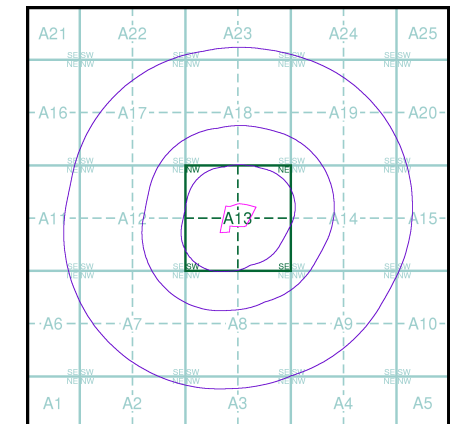
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published 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)

275SE	1948	1:10,560
283NE	1950	1:10,560

Historical Map - Slice A

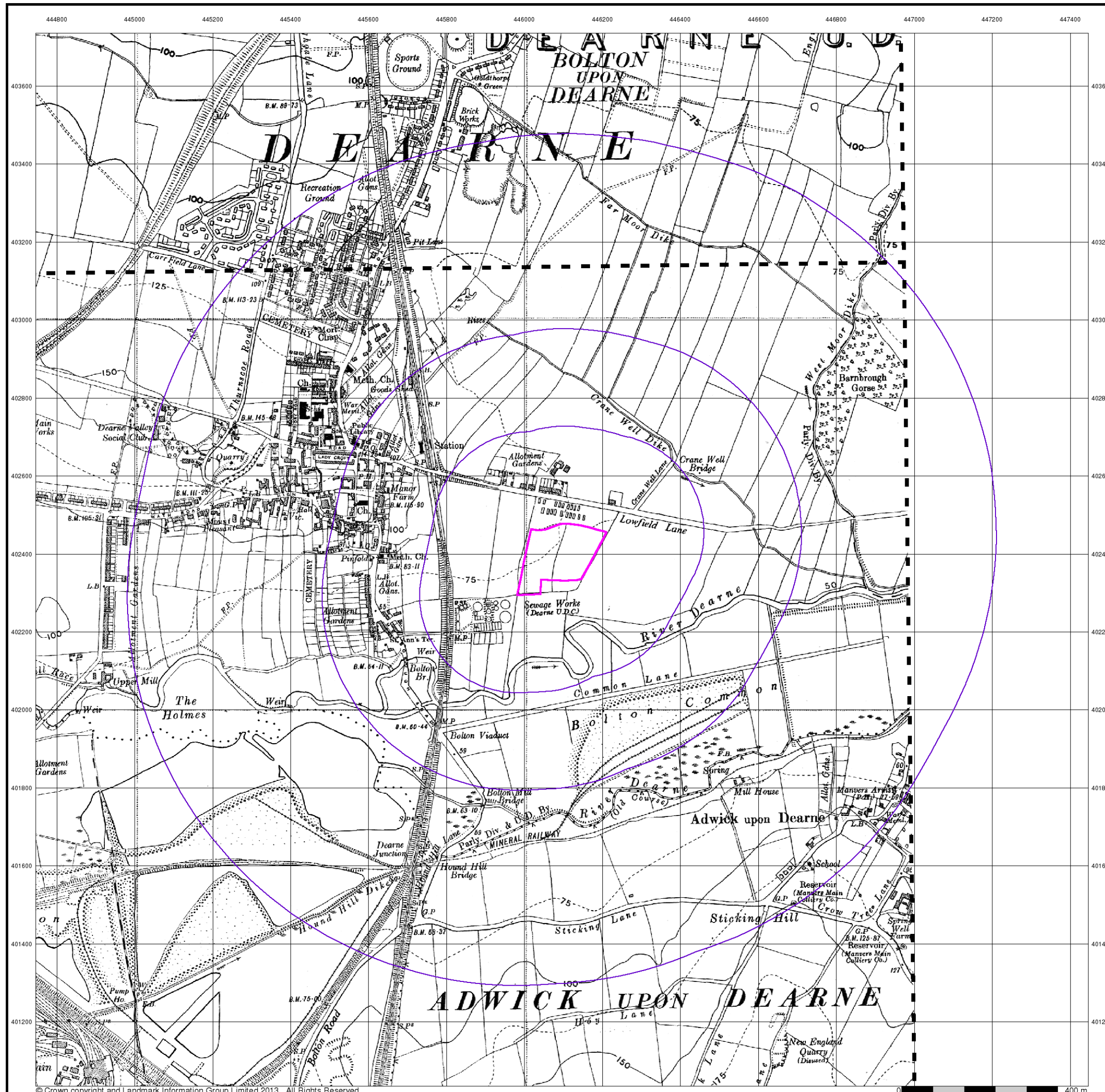


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



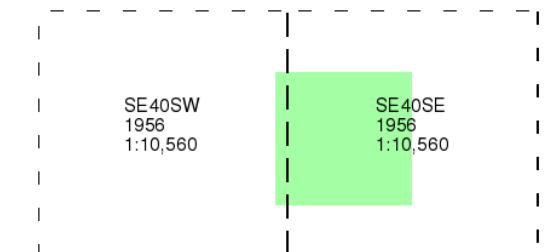
Ordnance Survey Plan

Published 1956

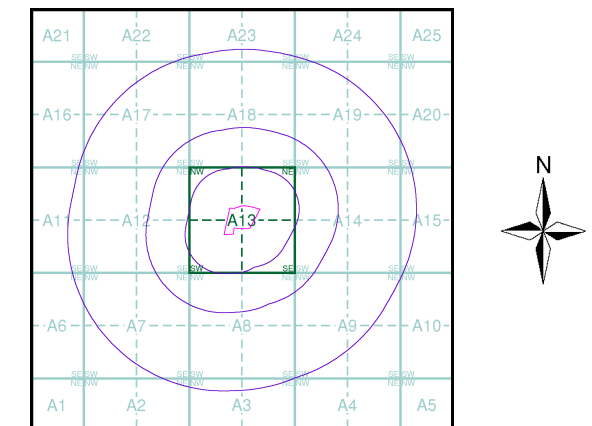
Source map scale - 1:10,000

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

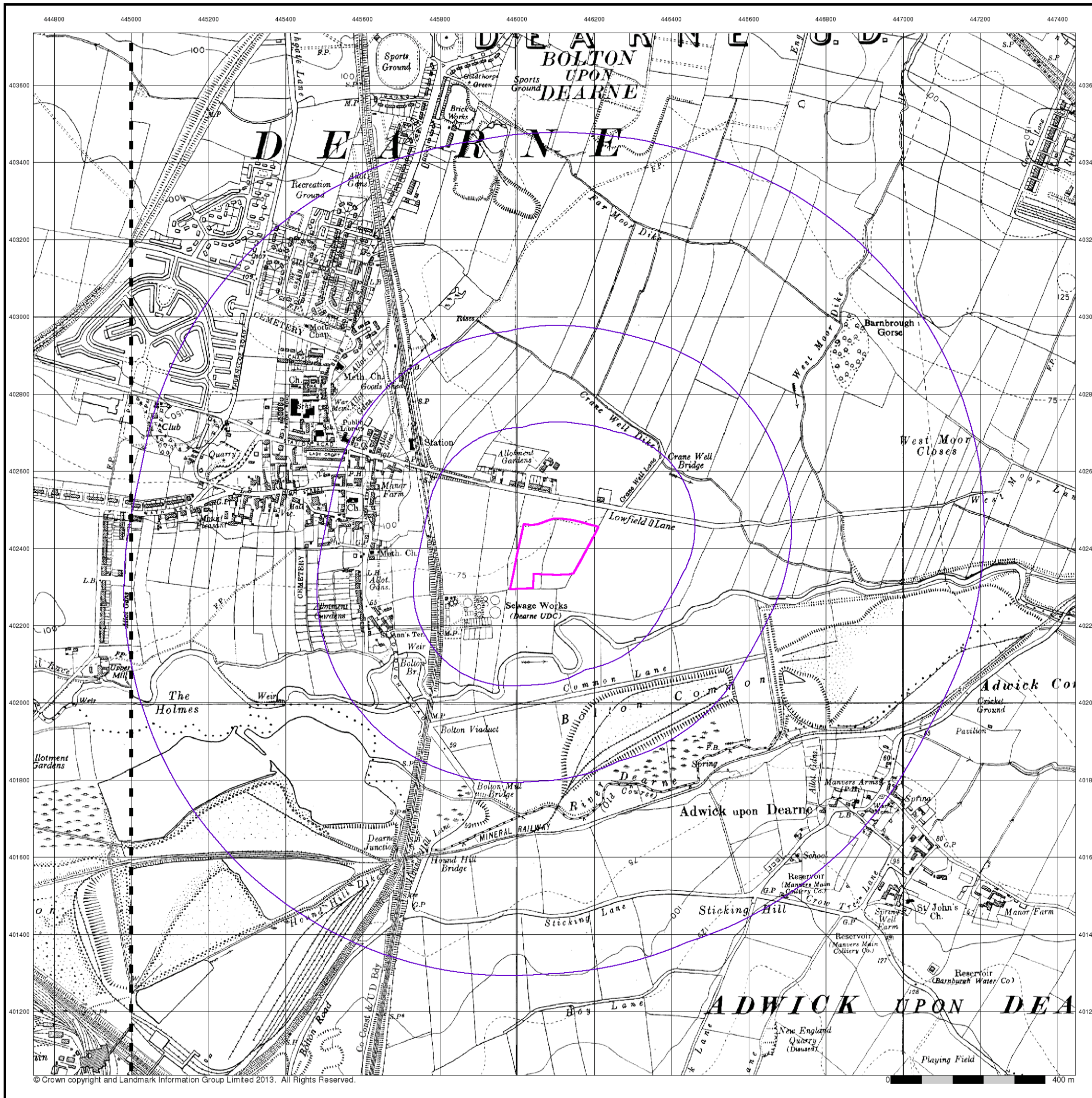


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
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Site Details

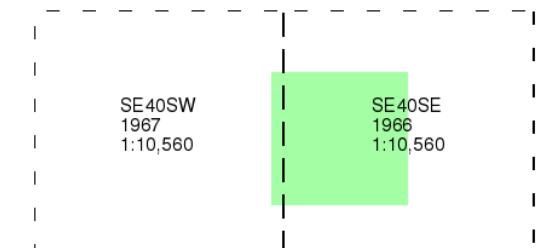
Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



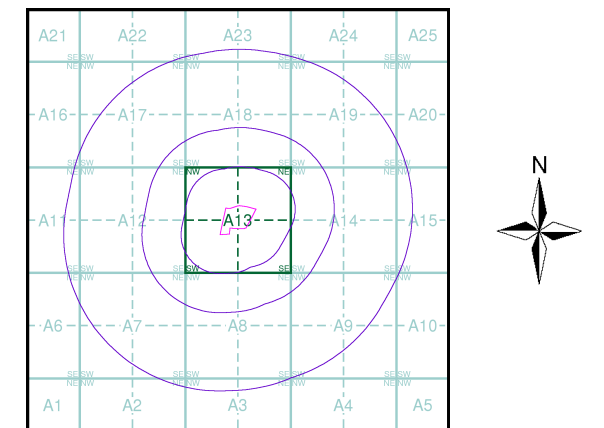
Ordnance Survey Plan
Published 1966 - 1967
Source map scale - 1:10,000

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

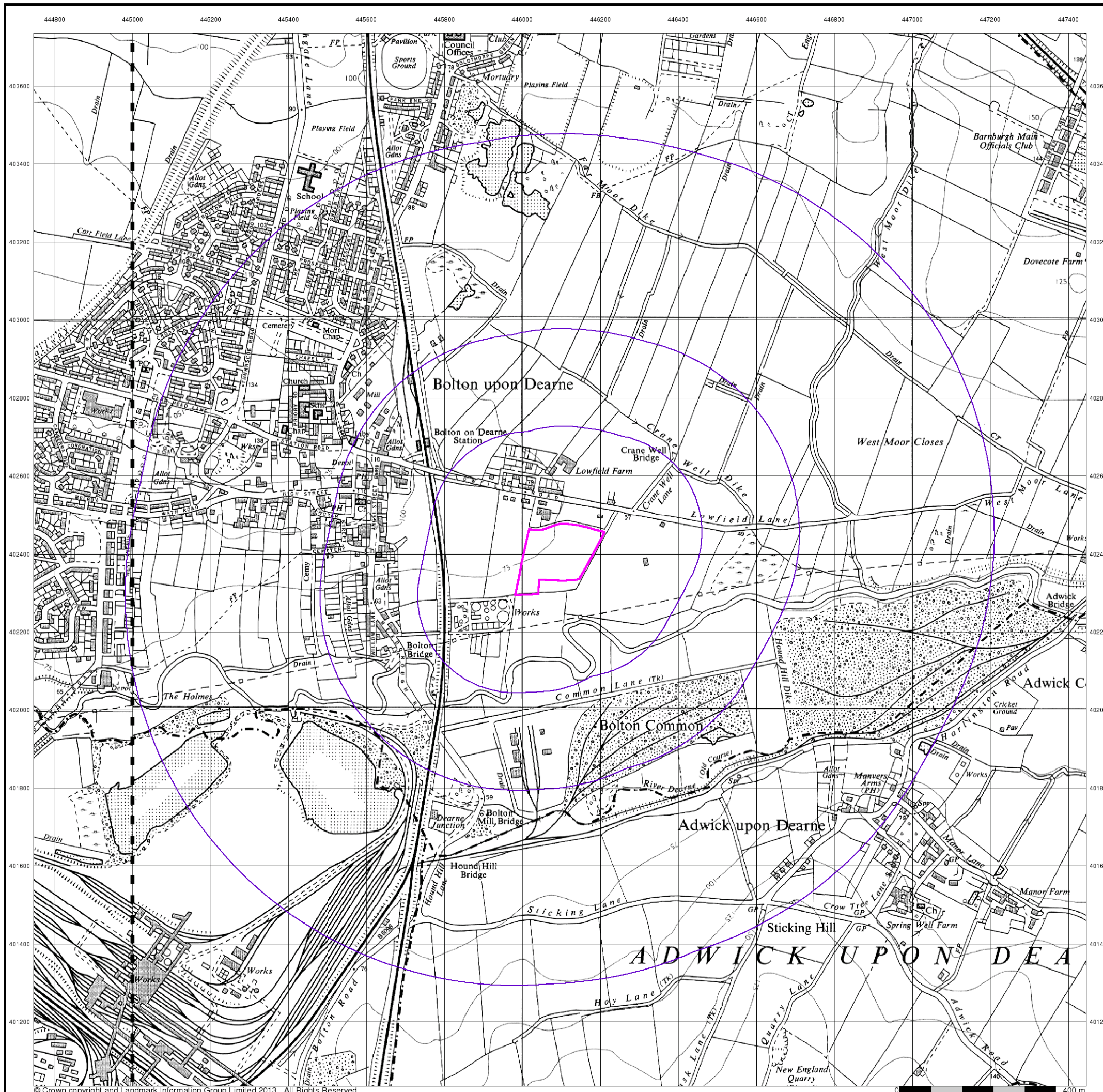


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



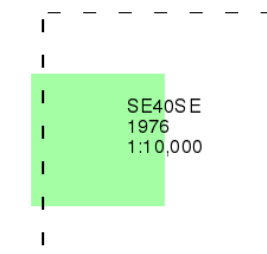
Ordnance Survey Plan

Published 1976

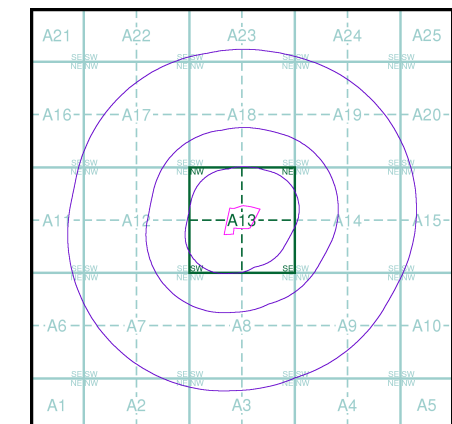
Source map scale - 1:10,000

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

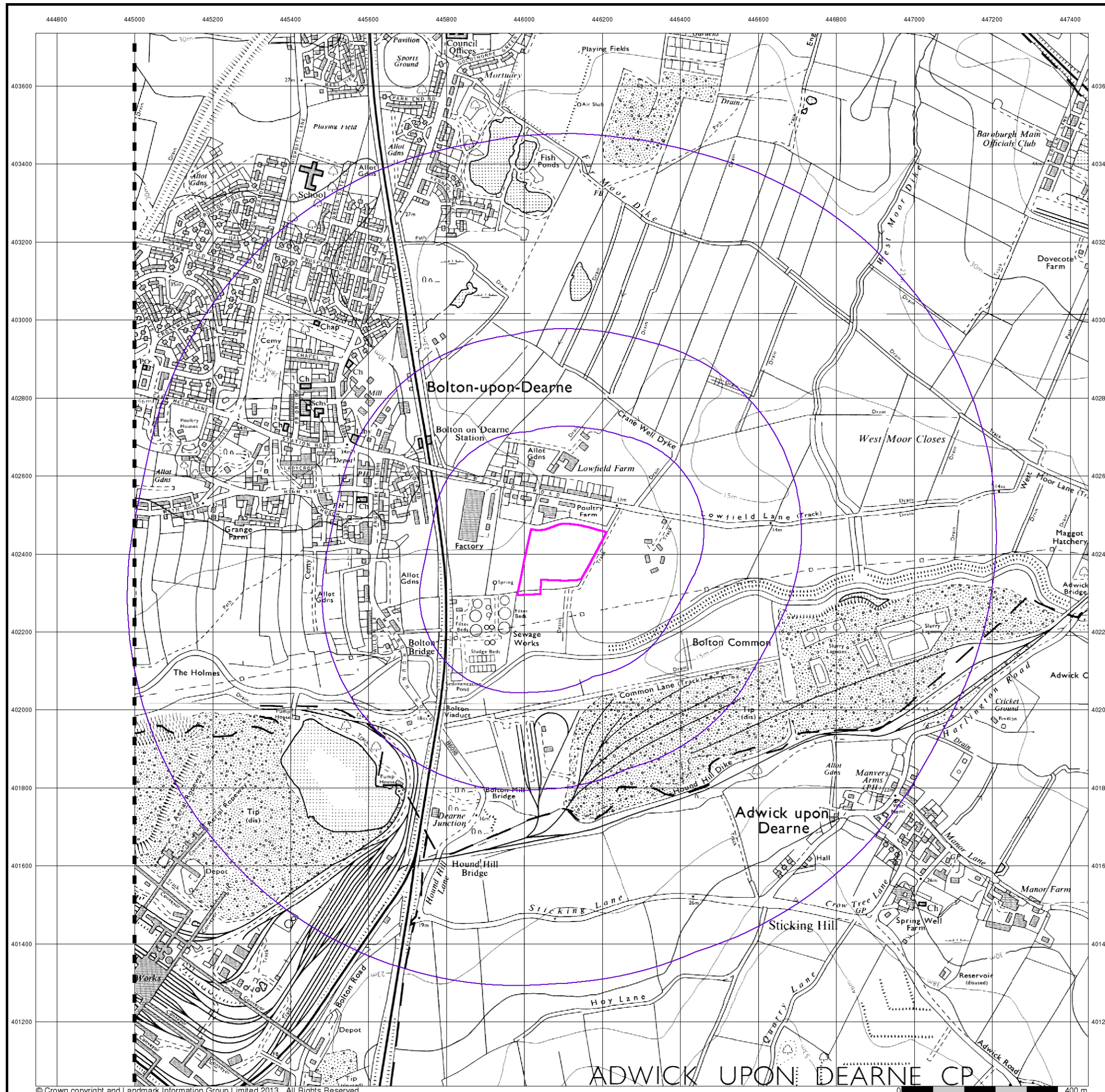


Order Details

Order Number: 60541545_1_1
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 National Grid Reference: 446090, 402390
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Site Details

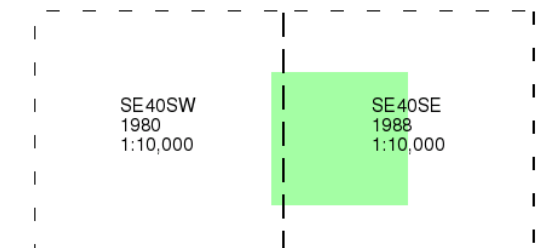
Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



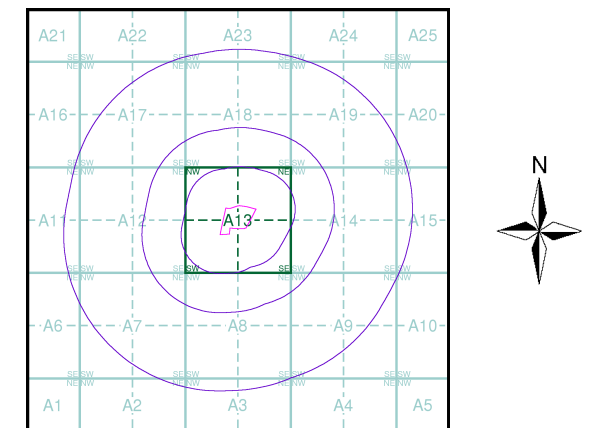
Ordnance Survey Plan
Published 1980 - 1988
Source map scale - 1:10,000

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

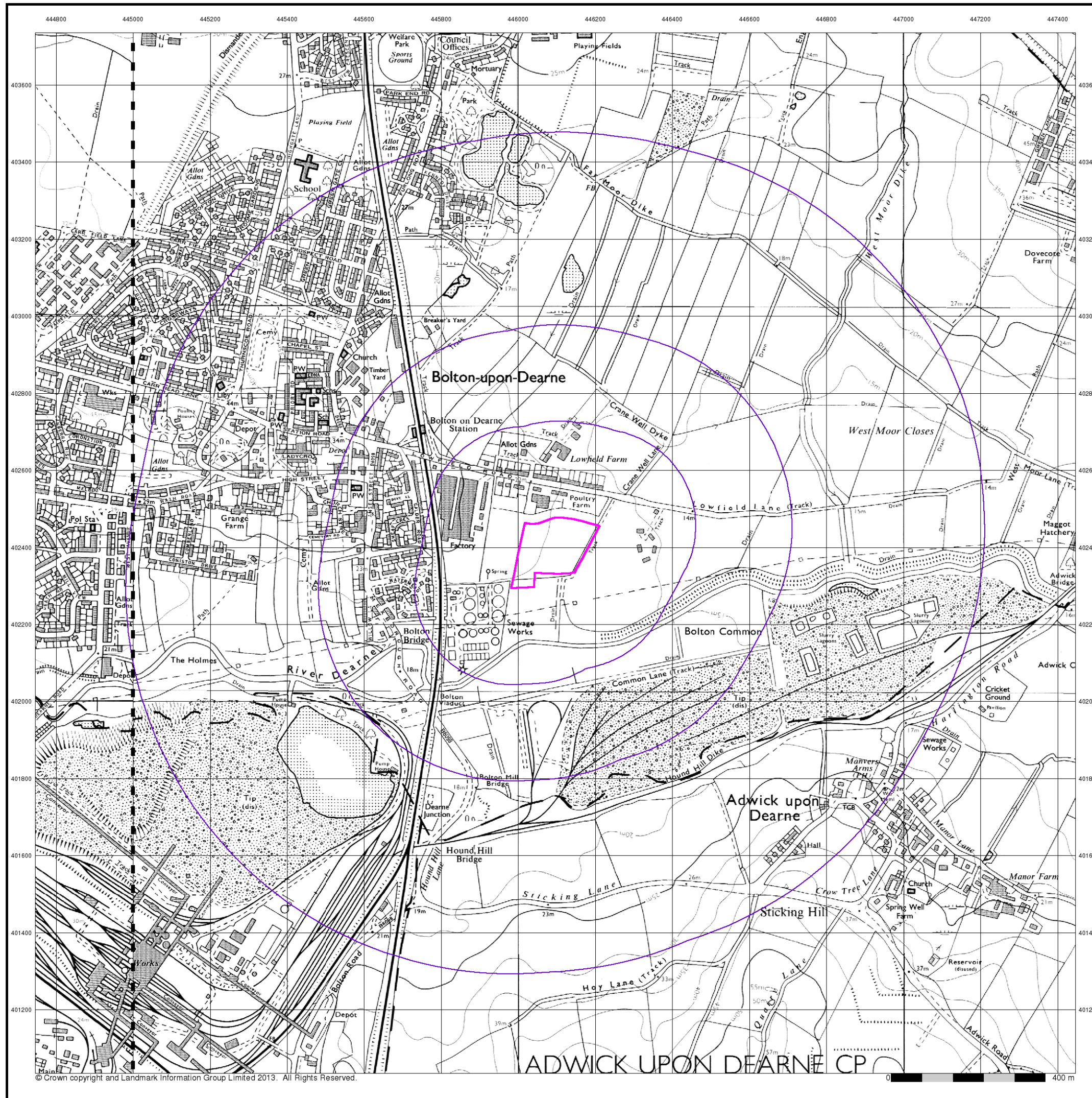


Order Details

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 Customer Ref: 37666/PR
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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



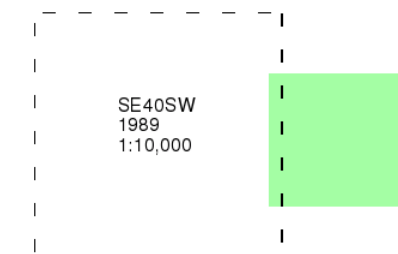
Ordnance Survey Plan

Published 1989

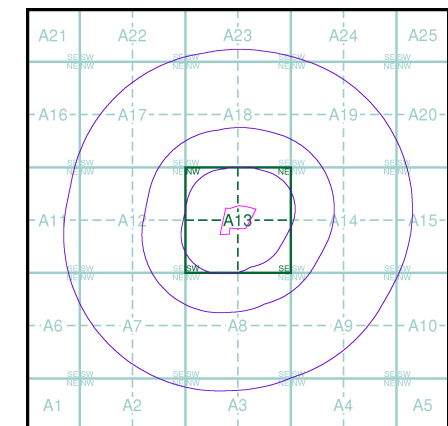
Source map scale - 1:10,000

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

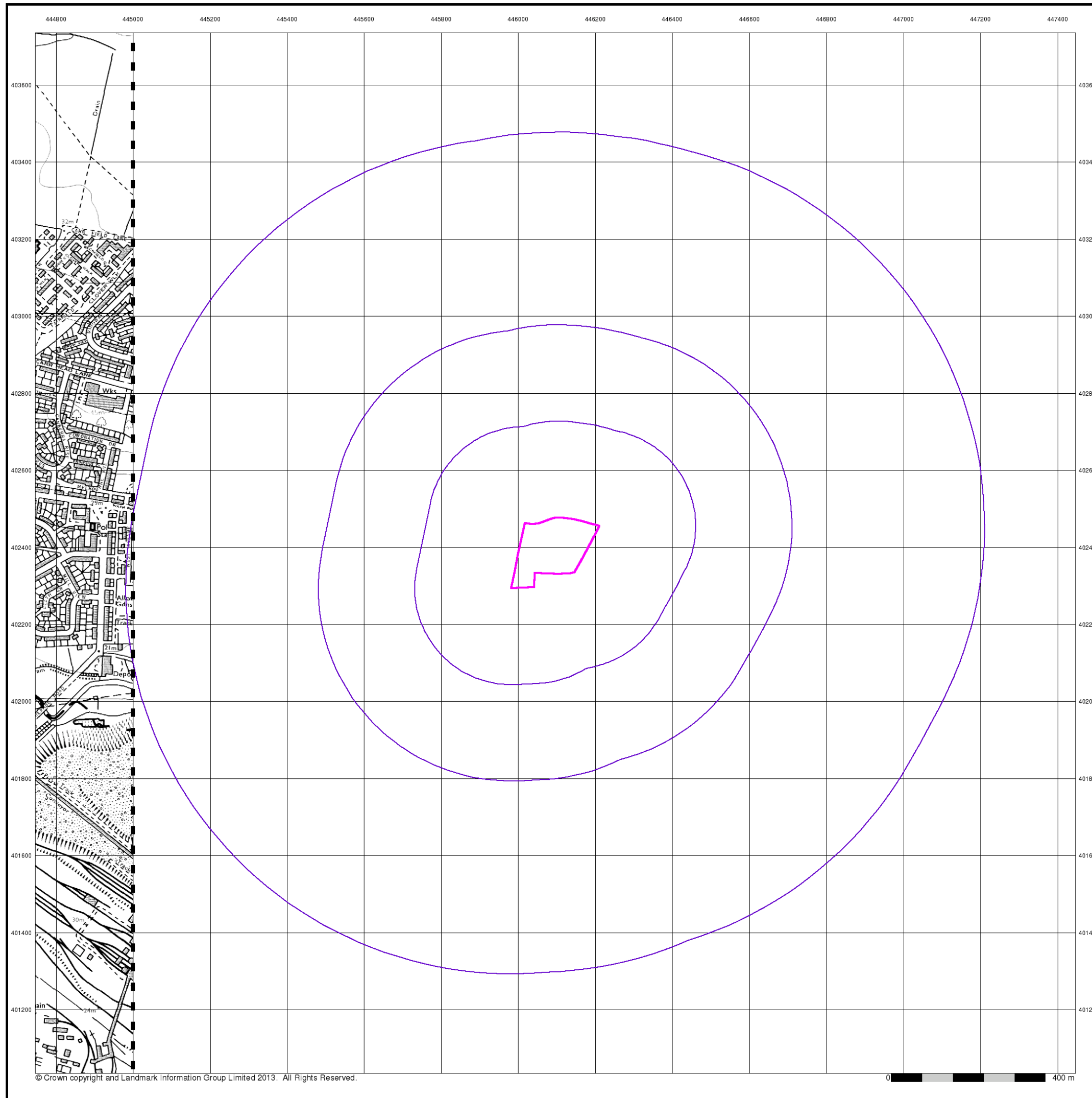


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
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 Slice: A
 Site Area (Ha): 2.62
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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



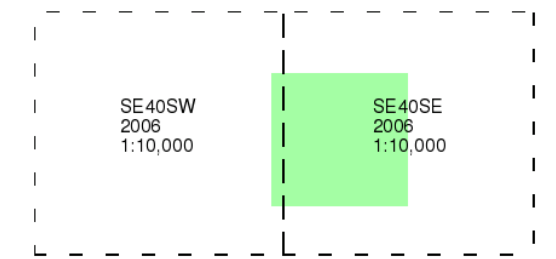
10k Raster Mapping

Published 2006

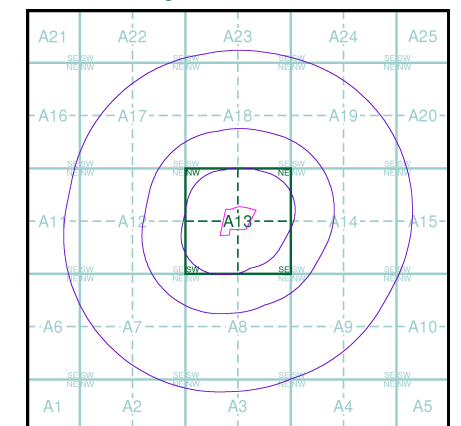
Source map scale - 1:10,000

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)



Historical Map - Slice A

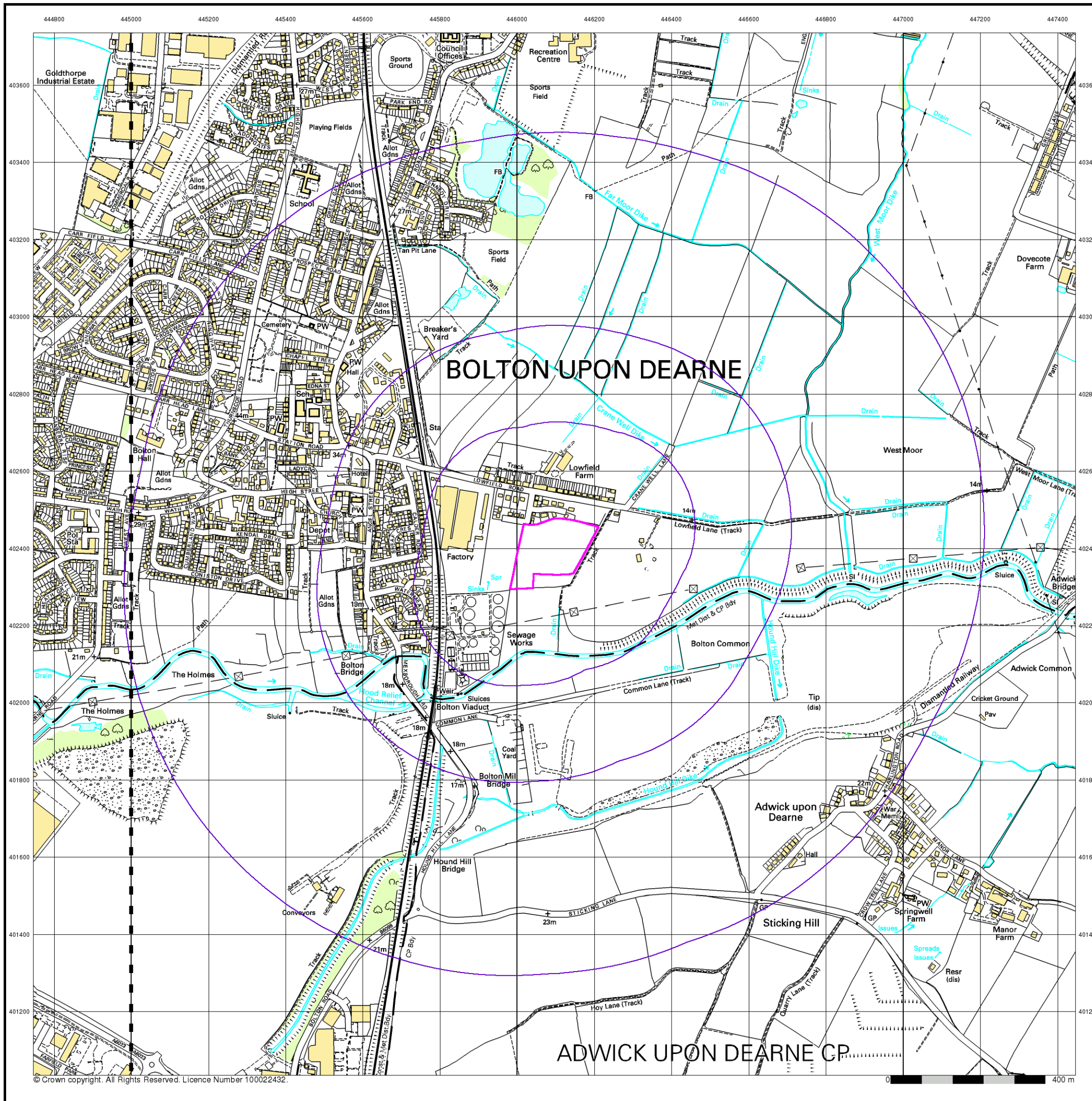


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



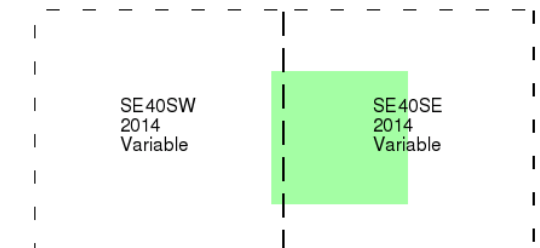
VectorMap Local

Published 2014

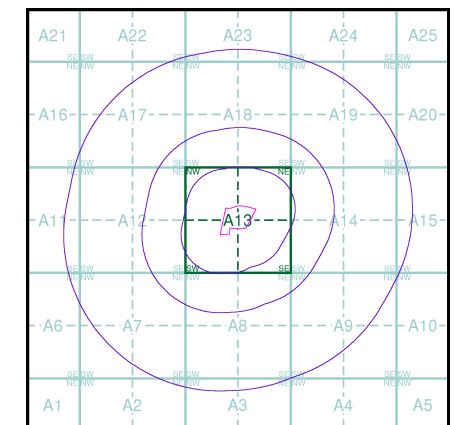
Source map scale - 1:10,000

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)



Historical Map - Slice A

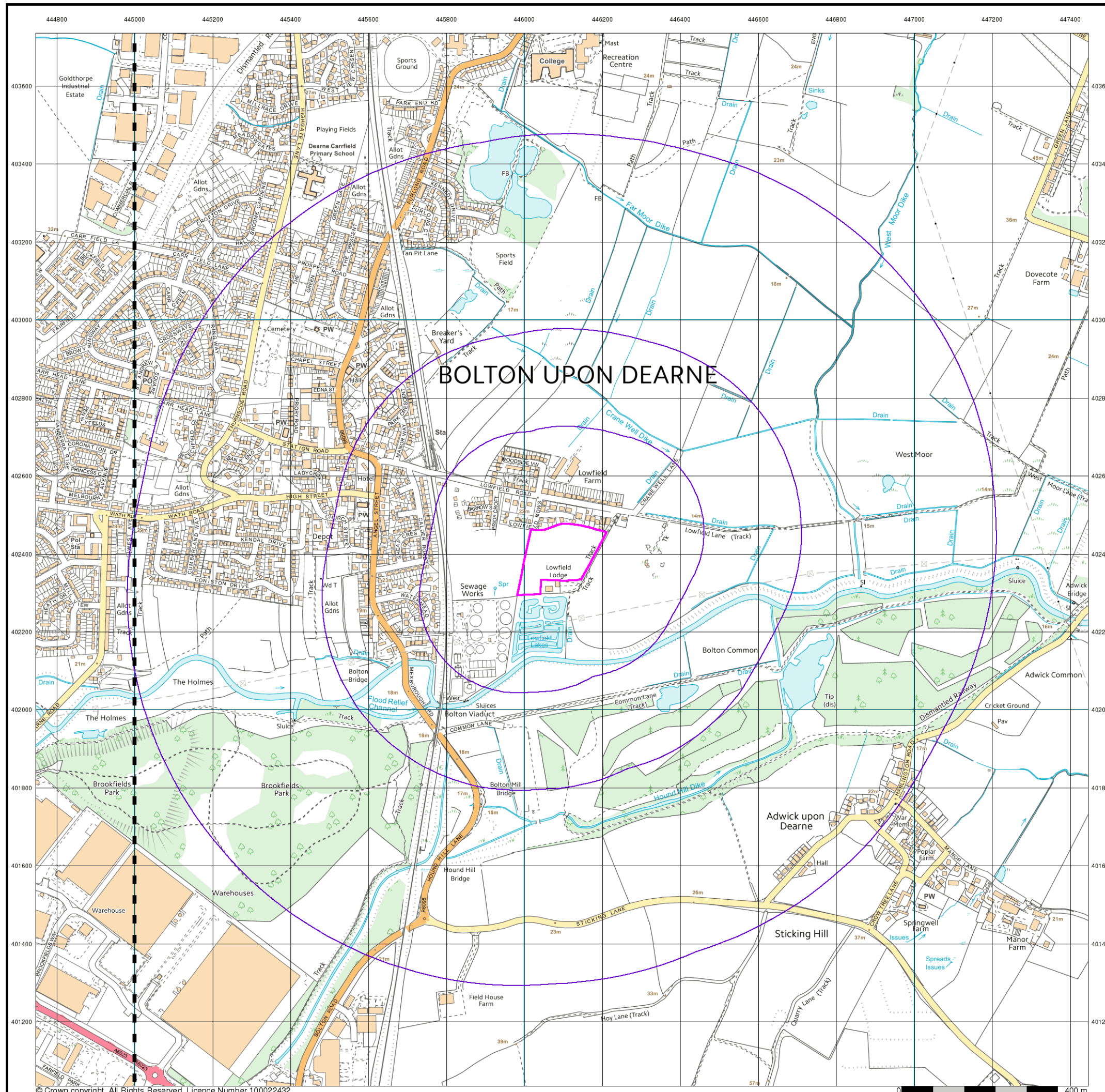


Order Details

Order Number: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Boundary Post or Stone **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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
Beer House **Pillar, Pole or Post**
Boundary Post or Stone **Post Office**
Capstan, Crane **Public Convenience**
Chimney **Public House**
Drinking Fountain **Pump**
Electricity Pillar or Post **Signal Box or Bridge**
Fire Alarm Pillar **Signal Post or Light**
Foot Bridge **Spring**
Guide Post **Tank or Track**
Hydrant or Hydraulic **Telephone Call Box**
Level Crossing **Telephone Call Post**
Manhole **Trough**
Mile Post or Mooring Post **Water Point, Water Tap**
Mile Stone **Well**
Normal Tidal Limit **Wind Pump**

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

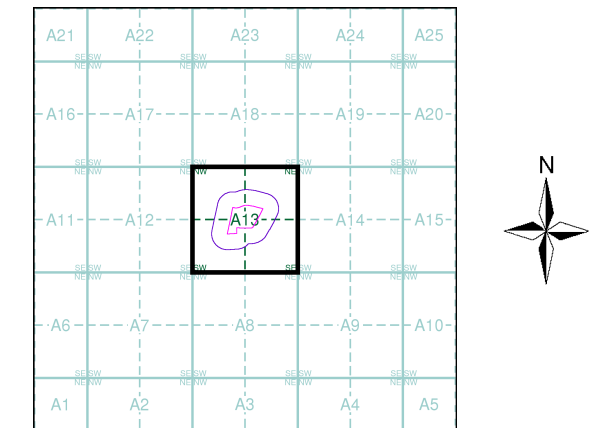
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
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)
Barracks **Pillar, Pole or Post**
Battery **Post Office**
Cemetery **Public Convenience**
Chimney **Pump**
Cistern **Pumping Station**
Dismtd Rly **Place of Worship**
Electricity Generating Station **Sewage Ppg Sta** **Sewage Pumping Station**
Electricity Pole, Pillar **Signal Box or Bridge**
Electricity Sub Station **Signal Post or Light**
Filter Bed **Spring**
Fountain / Drinking Ftn. **Tank or Track**
Gas Valve Compound **Trough**
Gas Governor **Wind Pump**
Guide Post **Water Point, Water Tap**
Manhole **Works (building or area)**
Mile Post or Mile Stone **Well**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1903	3
Yorkshire	1:2,500	1930	4
Ordnance Survey Plan	1:1,250	1961	5
Ordnance Survey Plan	1:2,500	1962	6
Ordnance Survey Plan	1:1,250	1971 - 1975	7
Ordnance Survey Plan	1:2,500	1972	8
Additional SIMs	1:1,250	1979	9
Additional SIMs	1:1,250	1982	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:1,250	1994 - 1995	13

Historical Map - Segment A13



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Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



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

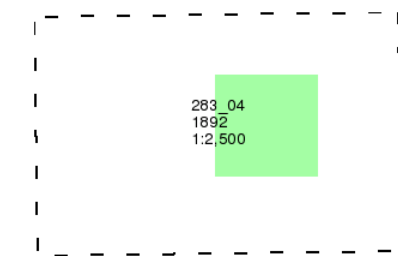
Yorkshire

Published 1892

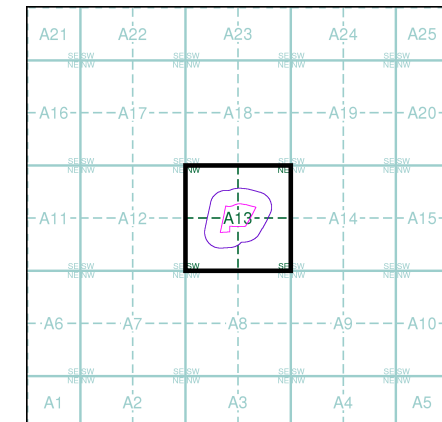
Source map scale - 1:2,500

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

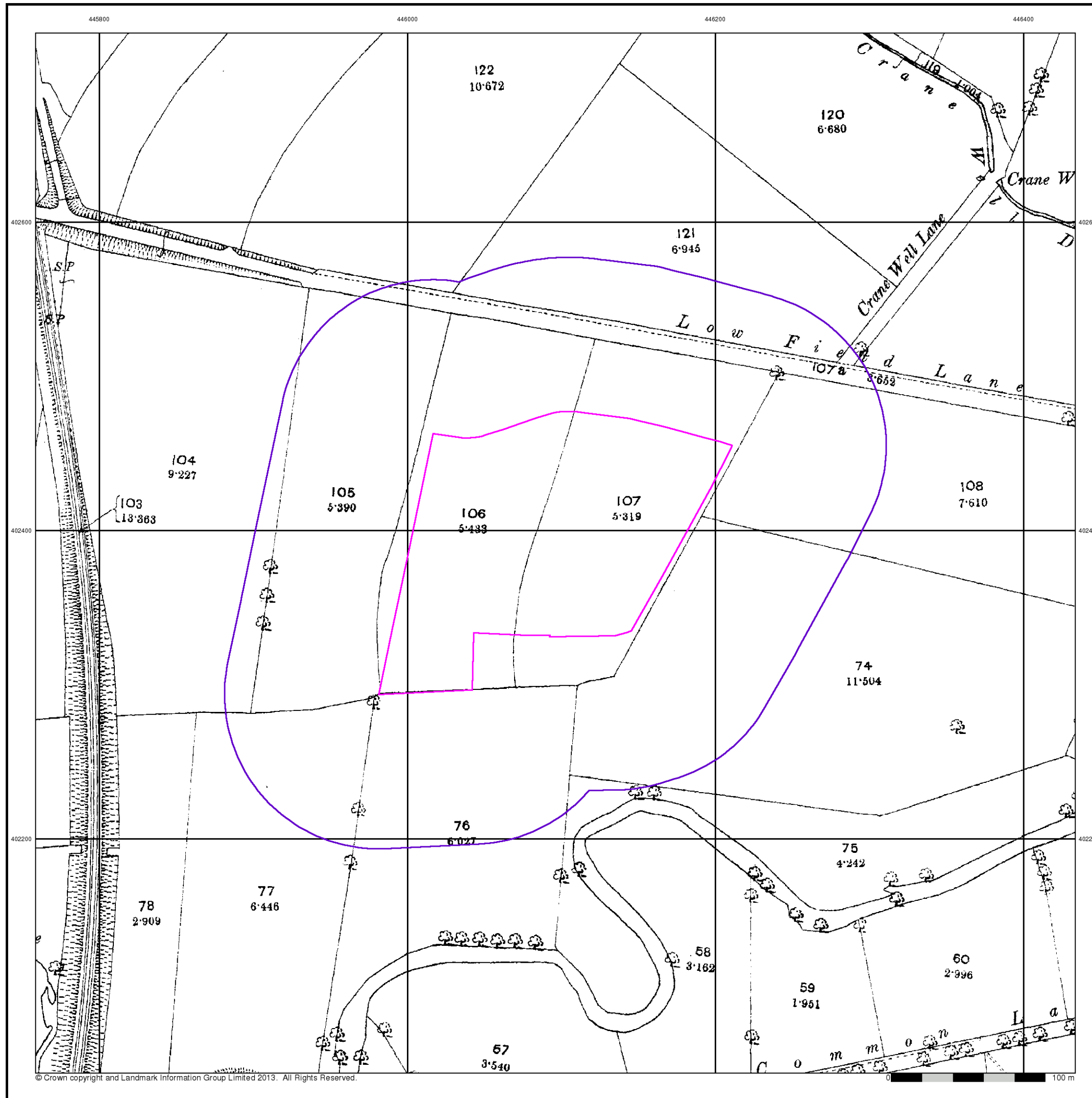


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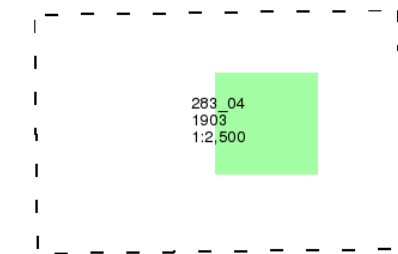
Yorkshire

Published 1903

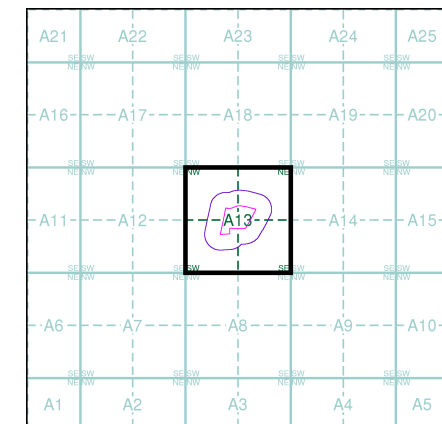
Source map scale - 1:2,500

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.

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Historical Map - Segment A13



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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



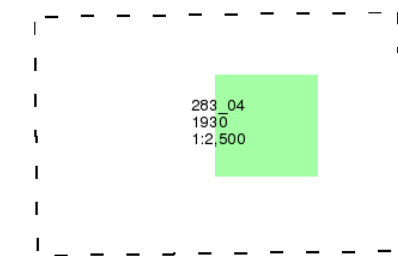
Yorkshire

Published 1930

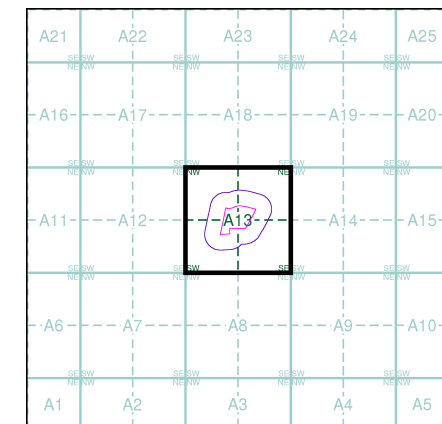
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

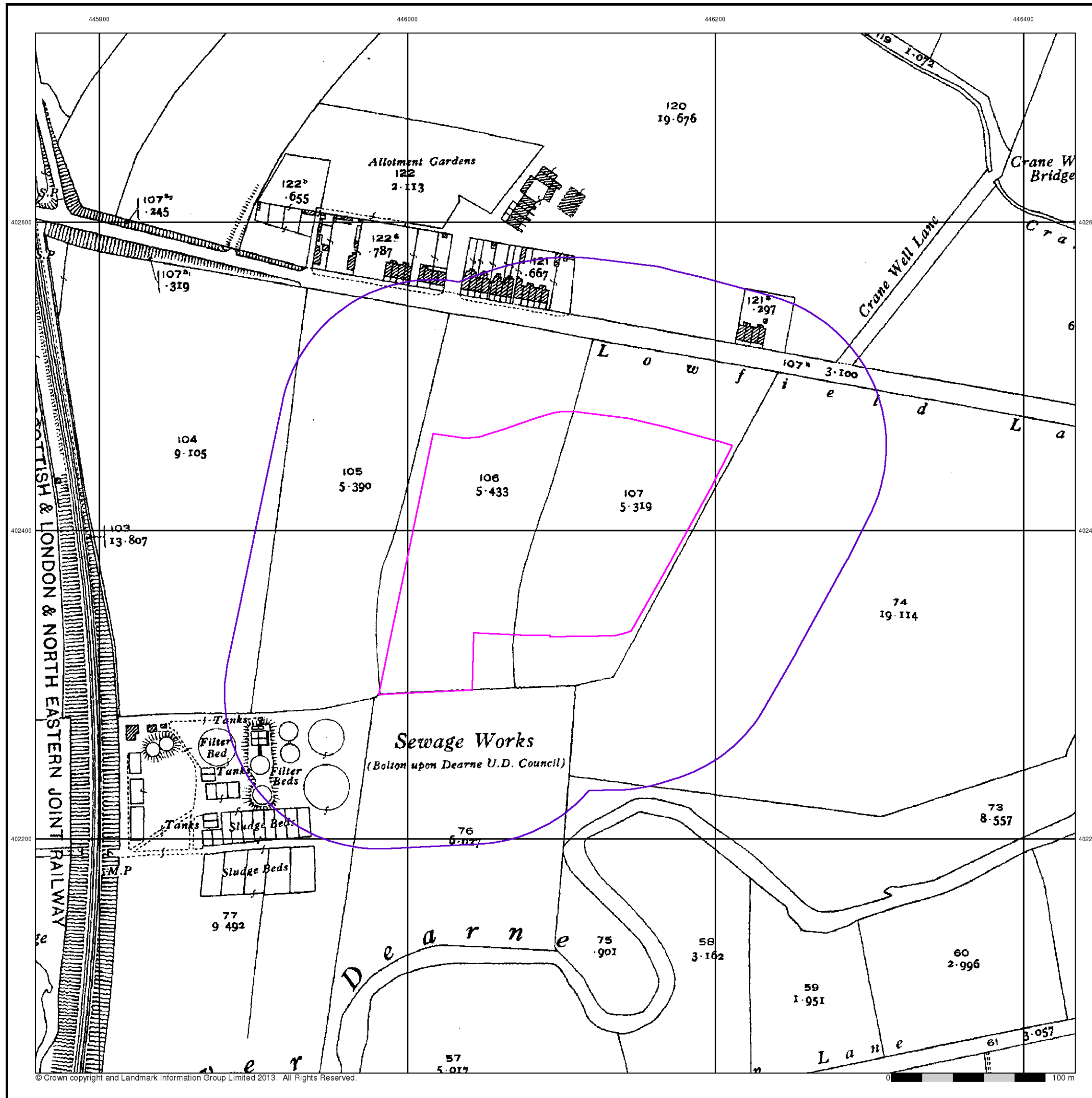


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Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



Ordnance Survey Plan

Published 1961

Source map scale - 1:1,250

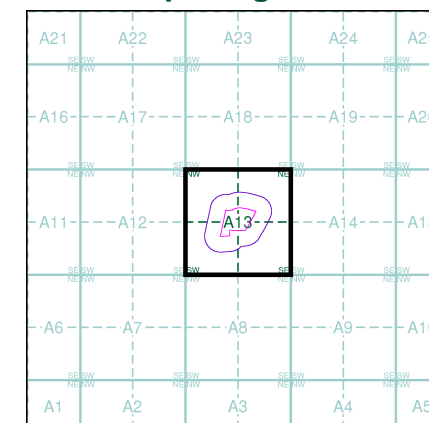
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

SE 4502NE
1961
1:1,250

SE 4502SE
1961
1:1,250

Historical Map - Segment A13



Order Details

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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



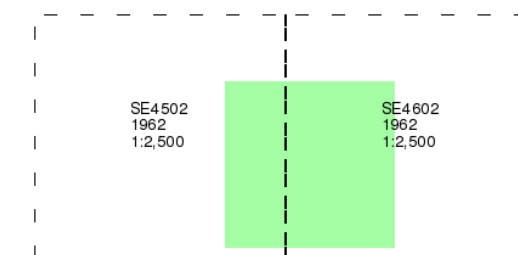
Ordnance Survey Plan

Published 1962

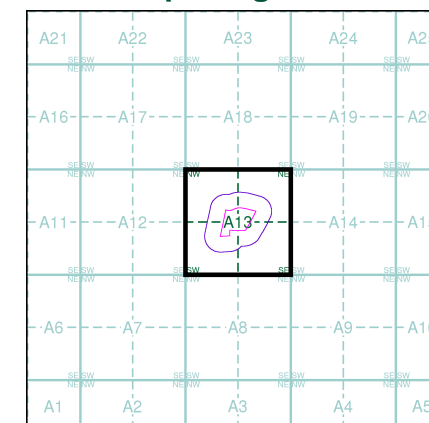
Source map scale - 1:2,500

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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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



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Ordnance Survey Plan

Published 1971 - 1975

Source map scale - 1:1,250

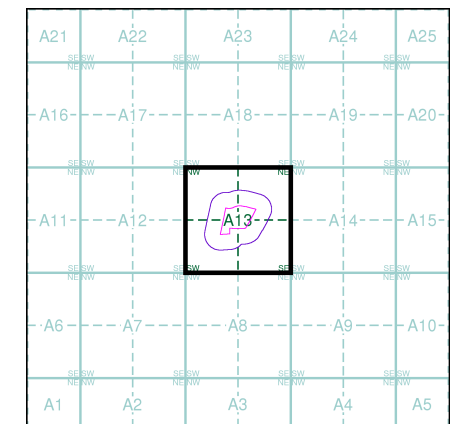
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

SE 4502NE
1975
1:1,250

SE 4502SE
1971
1:1,250

Historical Map - Segment A13

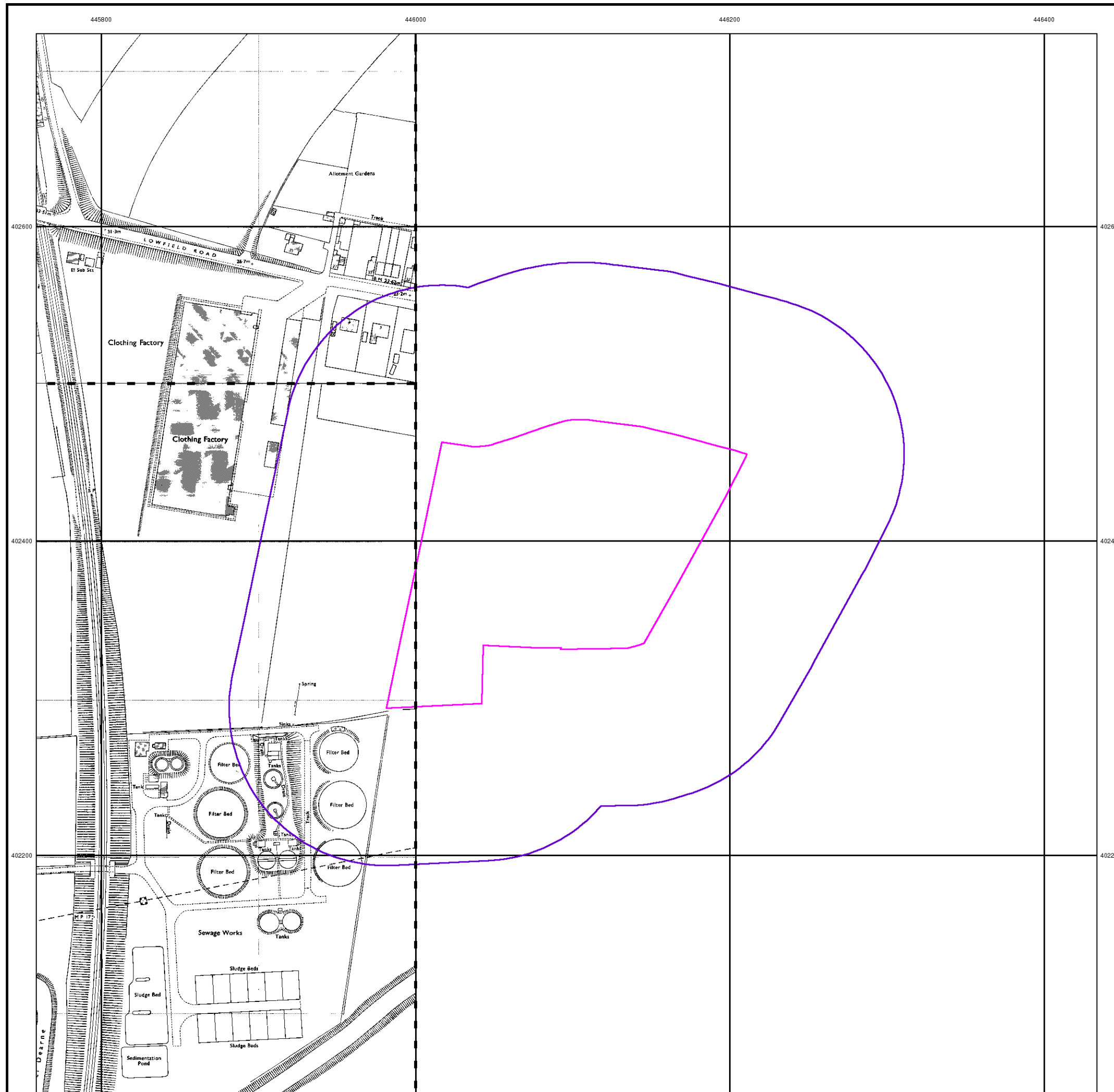


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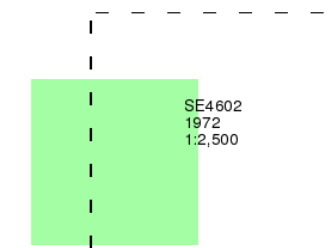
Ordnance Survey Plan

Published 1972

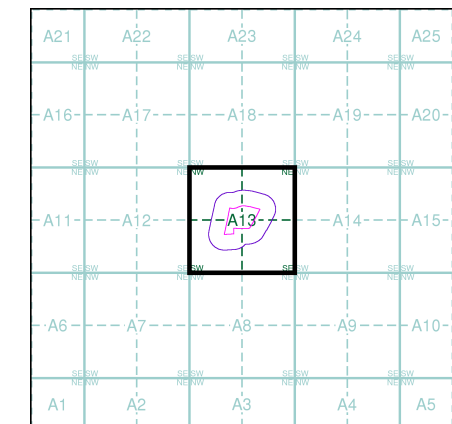
Source map scale - 1:2,500

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

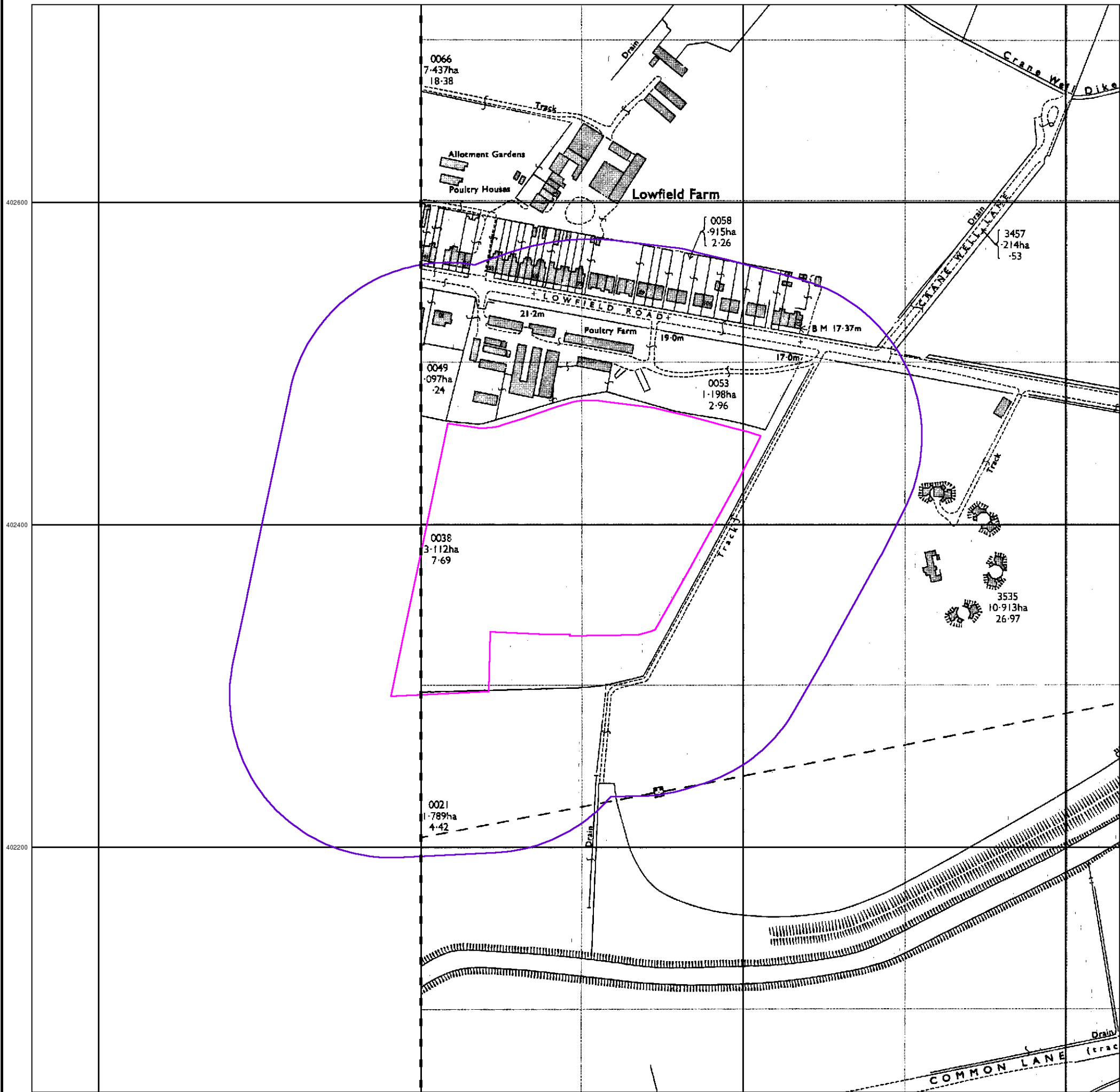
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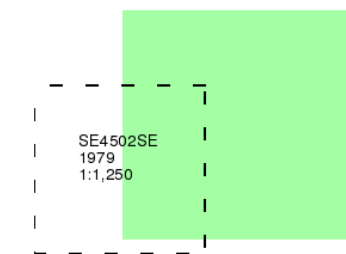
Additional SIMs

Published 1979

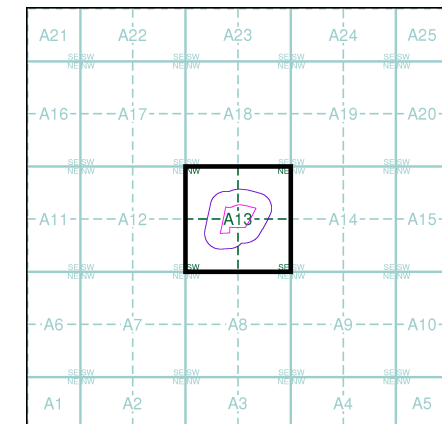
Source map scale - 1:1,250

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

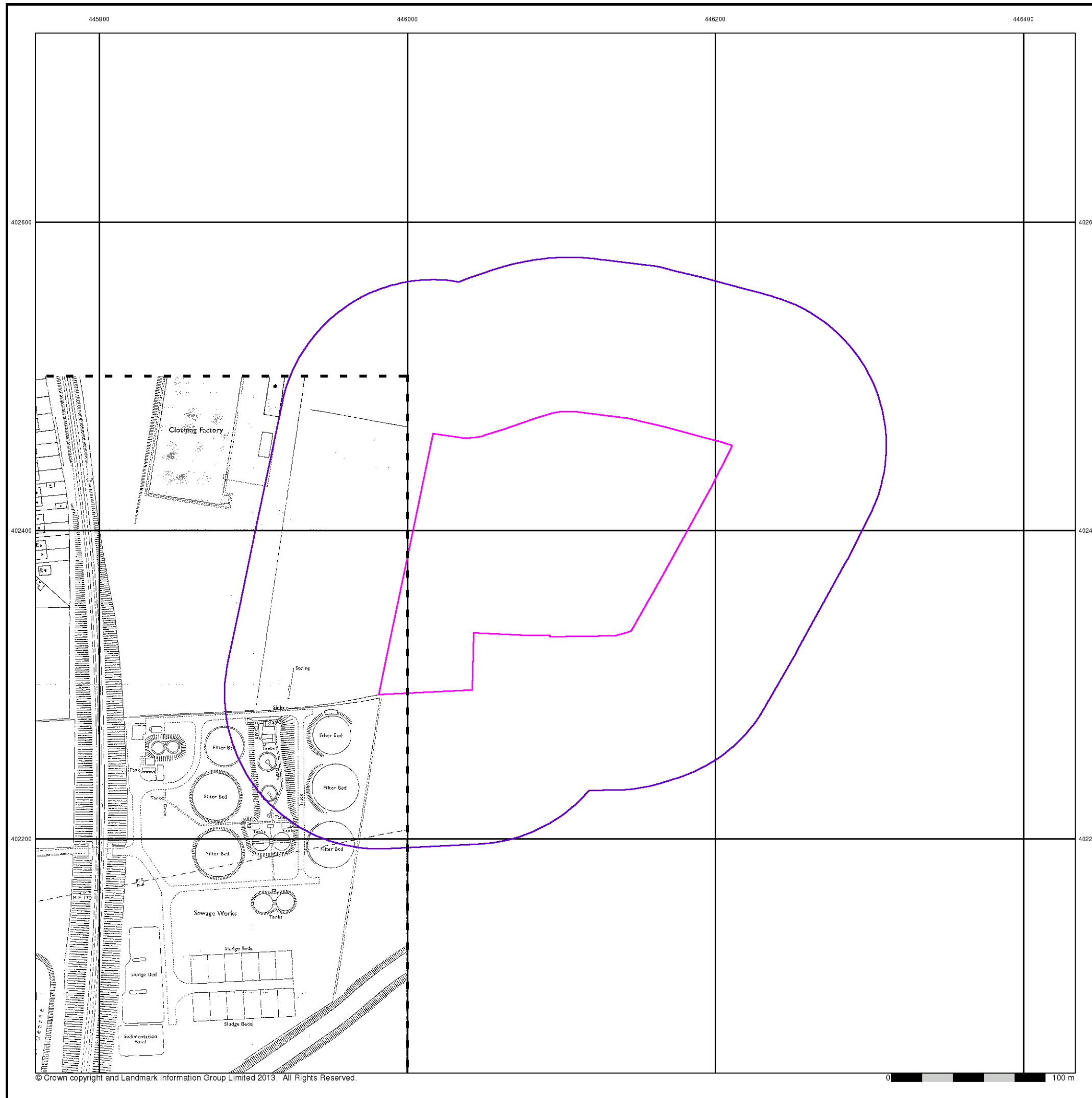


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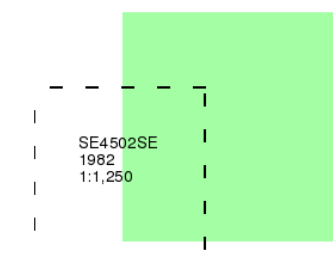
Additional SIMs

Published 1982

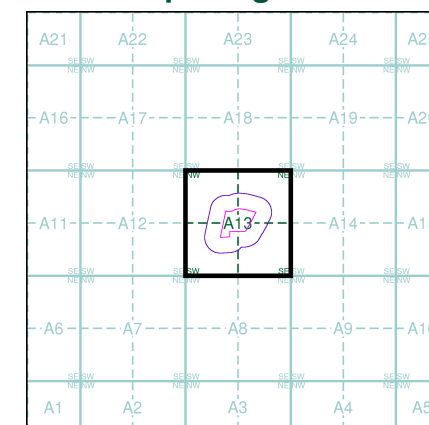
Source map scale - 1:1,250

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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

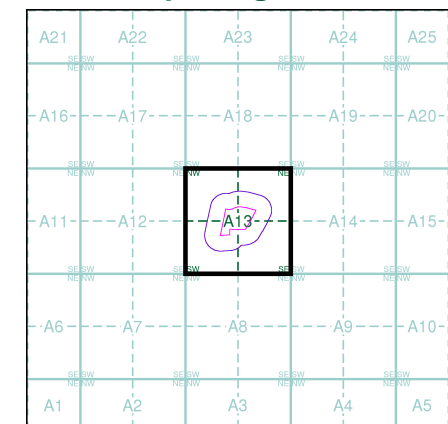
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE 4502NE
1993
1:1,250

SE 4502SE
1993
1:1,250

Historical Map - Segment A13

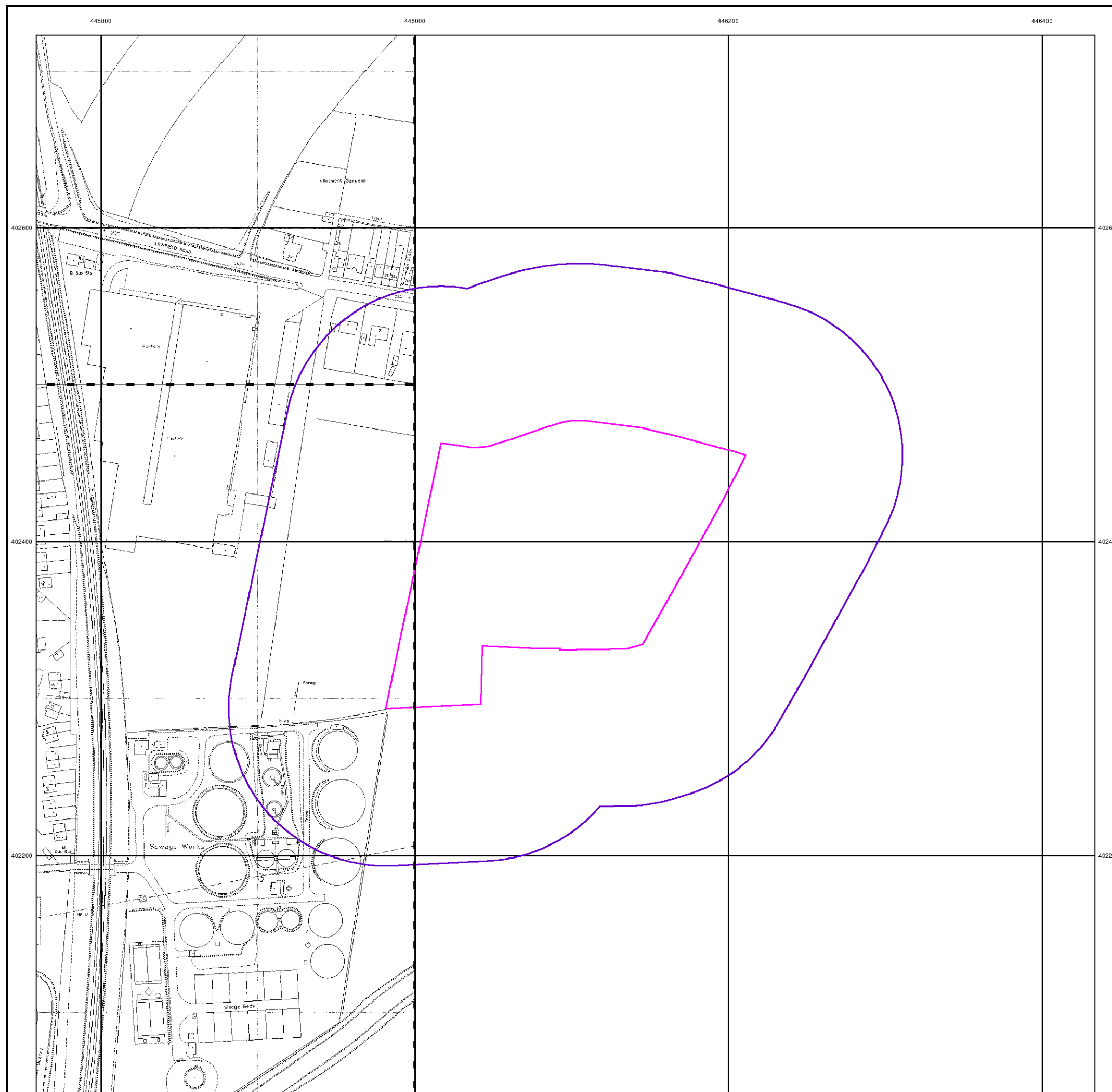


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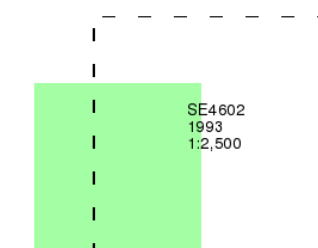
Large-Scale National Grid Data

Published 1993

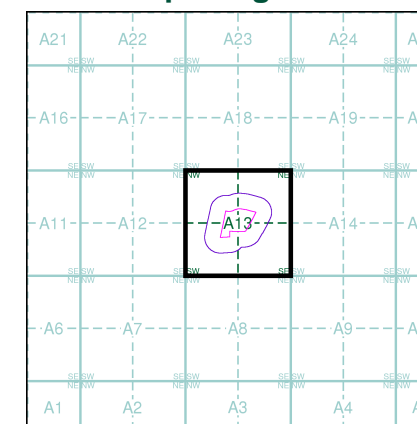
Source map scale - 1:2,500

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

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Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



Large-Scale National Grid Data

Published 1994 - 1995

Source map scale - 1:1,250

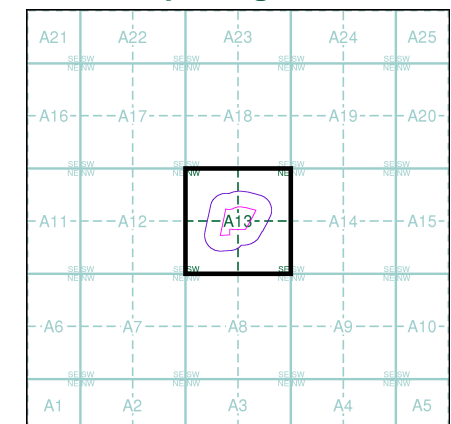
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Map Name(s) and Date(s)

SE 4502NE
1994
1:1,250

SE 4502SE
1995
1:1,250

Historical Map - Segment A13



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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

60541545_1_1

Customer Reference:

37666/PR

National Grid Reference:

446090, 402390

Slice:

A

Site Area (Ha):

2.62

Search Buffer (m):

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Site Details:

Bolton-upon-Dearne

ROTHERHAM

South Yorkshire

S63 8JQ

Client Details:

Miss K Daddo-Langlois

Eastwood & Partners Ltd

St Andrews House

23 Kingfield Road

Sheffield

S11 9AS

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	29
Hazardous Substances	-
Geological	36
Industrial Land Use	46
Sensitive Land Use	48
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Data Suppliers	54
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Introduction

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

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

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Agency & Hydrological					
Contaminated Land Register Entries and Notices					
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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 10		2	1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11		6	3	4
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 13		1	2	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 14			5	
Substantiated Pollution Incident Register	pg 18		1	1	3
Water Abstractions	pg 19		4	4	1 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 22	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 22	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 22		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 23		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas	pg 23		Yes	n/a	n/a
Flood Defences	pg 23		Yes	n/a	n/a
Detailed River Network Lines	pg 23		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 28		Yes		n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Licensed Waste Management Facilities (Landfill Boundaries)	pg 30			1	1
Licensed Waste Management Facilities (Locations)	pg 30			1	5
Local Authority Recorded Landfill Sites	pg 31				2
Registered Landfill Sites	pg 32				4
Registered Waste Transfer Sites	pg 33				2
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Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
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BGS 1:625,000 Solid Geology	pg 36	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 36	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 44				3
BGS Urban Soil Chemistry					
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Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 44	Yes	n/a	n/a	n/a
Mining Instability	pg 44	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 44	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 44		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 45	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 45		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 45	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Ramsar Sites					
Sites of Special Scientific Interest					
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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Mexbrough Road, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/53 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	14	2	445980 402280
1	Discharge Consents Operator: YORKSHIRE WATER SERVICES LTD Property Type: Sewage Disposal Works Location: BOLTON ON DEARNE WWTW, MEXBOROUGH ROAD, BOLTON ON DEARNE, ROTHERHAM, SOUTH YORKSHIRE Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: 3331 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 7th September 1999 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Crude Effluent Discharge: Not Supplied Environment: Receiving Water: DEARNE Status: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	54	2	445950 402250
1	Discharge Consents Operator: YORKSHIRE WATER SERVICES LTD Property Type: Sewage Disposal Works Location: BOLTON ON DEARNE WWTW, MEXBOROUGH ROAD, BOLTON ON DEARNE, ROTHERHAM, SOUTH YORKSHIRE Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: 3331 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 7th September 1999 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Not Supplied Environment: Receiving Water: DEARNE Revoked Status: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	54	2	445950 402250
1	Discharge Consents Operator: YORKSHIRE WATER SERVICES LTD Property Type: Sewage Disposal Works Location: BOLTON ON DEARNE WWTW, MEXBOROUGH ROAD, BOLTON ON DEARNE, ROTHERHAM, SOUTH YORKSHIRE Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: 3331 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 7th September 1999 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Treated Effluent Discharge: Not Supplied Environment: Receiving Water: DEARNE Revoked Status: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	54	2	445950 402250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Sso At Lowfield Road Pumping Statio, N, Bolton On Dearne (Emergency O, Verflow)</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3599 Permit Version: 3 Effective Date: 31st March 2003 Issued Date: 31st March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Crane Well Dike Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	100	2	446300 402500
2	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Sso At Lowfield Road Pumping Statio, N, Bolton On Dearne (Emergency O, Verflow)</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3599 Permit Version: 2 Effective Date: 5th December 2002 Issued Date: 5th December 2002 Revocation Date: 30th March 2003 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Crane Well Dike Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	100	2	446300 402500
2	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Sso At Lowfield Road Pumping Statio, N, Bolton On Dearne (Emergency O, Verflow)</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3599 Permit Version: 1 Effective Date: 25th January 1982 Issued Date: 25th January 1982 Revocation Date: 4th December 2002 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Crane Well Dike Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	100	2	446300 402500
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 1 Effective Date: 21st October 1985 Issued Date: 21st October 1985 Revocation Date: 6th September 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	210	2	445900 402100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 1 Effective Date: 21st October 1985 Issued Date: 21st October 1985 Revocation Date: 6th September 1999 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	210	2	445900 402100
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E683(Ss) Permit Version: 1 Effective Date: 1st January 1982 Issued Date: 1st January 1982 Revocation Date: 16th August 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	210	2	445900 402100
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E683(Ss) Permit Version: 1 Effective Date: 1st January 1982 Issued Date: 1st January 1982 Revocation Date: 16th August 1993 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	210	2	445900 402100
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 7 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 6 Effective Date: 4th October 2004 Issued Date: 4th October 2004 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 4 Effective Date: 17th March 2003 Issued Date: 17th March 2003 Revocation Date: 3rd October 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 5 Effective Date: 31st December 2005 Issued Date: 17th March 2003 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 2 Effective Date: 7th September 1999 Issued Date: 7th September 1999 Revocation Date: 31st December 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 3 Effective Date: 1st January 2001 Issued Date: 7th September 1999 Revocation Date: 16th March 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	220	2	445930 402080
3	<p>Discharge Consents</p> <p>Operator: Mr Roger Tuby Property Type: Trade (Unknown/Other) Location: Ex Coal Yard, Common Lane, Bolton-On Dearne, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8825 Permit Version: 1 Effective Date: 20th April 2005 Issued Date: 20th April 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	232	2	445920 402070
4	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Mexborough East Cso Mexborough Road (Off), Bolton-Upon-Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra9260 Permit Version: 1 Effective Date: 4th September 2007 Issued Date: 4th September 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12SE (SW)	299	2	445710 402170
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 7 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 7 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 6 Effective Date: 4th October 2004 Issued Date: 4th October 2004 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 6 Effective Date: 4th October 2004 Issued Date: 4th October 2004 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 4 Effective Date: 17th March 2003 Issued Date: 17th March 2003 Revocation Date: 3rd October 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 4 Effective Date: 17th March 2003 Issued Date: 17th March 2003 Revocation Date: 3rd October 2004 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 5 Effective Date: 31st December 2005 Issued Date: 17th March 2003 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 5 Effective Date: 31st December 2005 Issued Date: 17th March 2003 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 2 Effective Date: 7th September 1999 Issued Date: 7th September 1999 Revocation Date: 31st December 2000 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 3 Effective Date: 1st January 2001 Issued Date: 7th September 1999 Revocation Date: 16th March 2003 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 2 Effective Date: 7th September 1999 Issued Date: 7th September 1999 Revocation Date: 31st December 2000 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
5	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Bolton On Dearne Stw Mexborough Road, Bolton On Dearne, Rotherham, South Yorkshire</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3331 Permit Version: 3 Effective Date: 1st January 2001 Issued Date: 7th September 1999 Revocation Date: 16th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	304	2	445850 402020
6	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Westhill Cso, Rotherham, .</p> <p>Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 141 Permit Version: 1 Effective Date: 24th June 1953 Issued Date: 24th June 1953 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dearne Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m</p>	A12SE (SW)	331	2	445700 402120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: Ogden Group Property Type: Trade (Unknown/Other) Location: Barnburgh Tip, Adwick Upon Deame, Uk Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7383 Permit Version: 1 Effective Date: 4th February 1998 Issued Date: 4th February 1998 Revocation Date: 5th September 2002 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: River Deame Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	454	2	446620 402260
8	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Storm Water Sewer Location: Grange Farm Sws, BARNLSLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: WA6006 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Surface Water Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Dearne Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	455	2	445550 402150
9	<p>Discharge Consents</p> <p>Operator: British Coal Opencast Property Type: Trade (Unknown/Other) Location: Manvers Site, Mexborough, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4804 Permit Version: 1 Effective Date: 22nd September 1987 Issued Date: 22nd September 1987 Revocation Date: 10th August 1993 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	557	2	445860 401750
10	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Furlong Pond Cso Off Furlong Road, Goldthorpe, Rotherham, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3640 Permit Version: 2 Effective Date: 28th March 2003 Issued Date: 28th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Far Moor Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A18NE (N)	875	2	446160 403350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Goldthorpe Furlong Road, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/53 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 28th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	908	2	446100 403385
11	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Mexbrough Road, DARTON, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/53 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Far Moor Dyke Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	913	2	446100 403390
12	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Furlong Pond Cso Off Furlong Road, Goldthorpe, Rotherham, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3640 Permit Version: 1 Effective Date: 23rd August 1982 Issued Date: 23rd August 1982 Revocation Date: 27th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Far Moor Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A23SE (N)	928	2	446200 403400
13	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Addspace Regeneration Ltd Location: Lowfield Road, Bolton On Dearne, Rotherham, S63 8je Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/32 Dated: 18th March 1993 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location</p>	A13NW (NW)	93	3	446005 402555
14	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Addspace Furniture Ltd Location: Lowfield Road, Bolton-Upon-Dearne, Rotherham, South Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/32 Dated: 18th March 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products Status: Site Closed Positional Accuracy: Manually positioned to the address or location</p>	A13NW (NW)	151	3	445881 402528

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Local Authority Pollution Prevention and Controls Name: A Ogden & Sons Location: Barnburgh Tip Site, Common Lane, Bolton Upon Dearne Authority: Doncaster Metropolitan Borough Council, Environmental Services Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A8NW (S)	426	4	445981 401868
16	Local Authority Pollution Prevention and Controls Name: M A Morrow Location: Central Services Garage, Furlong Road, Rotherham, South Yorkshire, S63 9PR Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address	A18NW (N)	953	3	445778 403385
	Nearest Surface Water Feature	A13SW (SW)	13	-	446035 402281
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Lowfield Road Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 20th February 1989 Incident Reference: 6777 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	98	2	446300 402495
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Lowfield Road Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 18th January 1989 Incident Reference: 6723 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	100	2	446300 402500
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 21st May 1990 Incident Reference: 110704 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	124	2	445900 402200
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 22nd September 1992 Incident Reference: 136860 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	128	2	445900 402195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 28th June 1990 Incident Reference: 112162 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	195	2	446000 402100
19	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 21st May 1992 Incident Reference: 133178 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	200	2	446000 402095
20	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: River Dearne, Bolton On Dearne Authority: Environment Agency, North East Region Pollutant: Unknown Note: River Dearne; Fish Killed: No Information Incident Date: 24th September 1998 Incident Reference: SH980360 Catchment Area: Dearne Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	342	2	445700 402100
21	Pollution Incidents to Controlled Waters Property Type: Restaurant/Hotels/Pubs Location: Potto Carr Farm, Potto Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: No Fish Killed; Ditch Incident Date: 1st September 1997 Incident Reference: DT970352 Catchment Area: Swale Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	356	2	446300 402800
22	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 2nd May 1990 Incident Reference: 110045 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	420	2	446600 402300
23	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Bolton Bridge B6098 / , Road Bridge Dearne 06 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 1st June 1989 Incident Reference: 100104 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	610	2	446800 402300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Bolton Bridge B6098 /, Road Bridge Dearne 06 Authority: Environment Agency, North East Region Pollutant: Sewage Debris/Litter Note: Not Supplied Incident Date: 17th March 1992 Incident Reference: 131315 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	688	2	445300 402200
25	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Unknown Location: Rd Bridge/Bolton Brdg B6098 Dearne 05 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 14th March 1991 Incident Reference: 120731 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	691	2	446900 402500
26	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Coniston Drive, Bolton On Dearne Authority: Environment Agency, North East Region Pollutant: Surcharged Sewage Note: River Dearne; No Fish Killed Incident Date: 25th May 1998 Incident Reference: SH980233 Catchment Area: Dearne Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	844	2	445150 402150
	River Quality Name: River_Dearne GQA Grade: River Quality C Reach: Brook_Dike_Hound_Hill_Dyk Estimated Distance (km): 2.9 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A13SW (S)	140	2	446096 402168
	River Quality Name: Hound_Hill_Dyke GQA Grade: Not Supplied Reach: Hound_Hill_Bridge_River_Dearn Estimated Distance (km): 1.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9NW (SE)	447	2	446459 402018
	River Quality Name: River_Dearne GQA Grade: River Quality C Reach: Hound_Hill_Dike_West_Moor_Dyk Estimated Distance (km): .3 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A14SW (E)	455	2	446627 402273
	River Quality Name: West_Moor_Dyke GQA Grade: River Quality E Reach: Goldthorpe_Pit_River_Dearn Estimated Distance (km): 1.8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14NE (E)	675	2	446880 402541

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: River_Dearne GQA Grade: River Quality C Reach: West_Moor_Dyke_River_Do Estimated Distance (km): 5.8 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A14SE (E)	693	2	446893 402335
27	River Quality Chemistry Sampling Points Name: River Dearne Reach: Brook Dike To Hound Hill Dyke Estimated Distance: 2.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied	A12SE (SW)	342	2	445700 402100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	<p>River Quality Chemistry Sampling Points</p> <p>Name: River Dearne Reach: Ings Dike To Brook Dike Estimated Distance: 1.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied</p>	A12SE (SW)	342	2	445700 402100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	River Quality Chemistry Sampling Points Name: River Dearne Reach: Knoll Beck To Ings Dike Estimated Distance: 0.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied	A12SE (SW)	342	2	445700 402100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	<p>River Quality Chemistry Sampling Points</p> <p>Name: River Dearne Reach: Bulling Dike Knoll Beck Estimated Distance: 0.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied</p>	A12SE (SW)	342	2	445700 402100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	River Quality Chemistry Sampling Points Name: River Dearne Reach: River Dove To Bulling Dike Estimated Distance: 1.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied	A12SE (SW)	342	2	445700 402100
28	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 4th October 2004 Incident Reference: 270161 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other Pollutant: Asbestos Waste	A13SE (S)	244	2	446170 402090
29	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 23rd March 2004 Incident Reference: 224793 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Other Specific Waste Material	A8NW (SW)	354	2	445864 401960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 12th December 2003 Incident Reference: 206454 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke	A18SW (NW)	574	2	445787 402988
31	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 9th July 2002 Incident Reference: 90317 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Other Atmospheric Pollutant Or Effect	A14SE (E)	601	2	446800 402340
32	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 3rd July 2002 Incident Reference: 89112 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Other Atmospheric Pollutant Or Effect	A9NW (SE)	698	2	446741 401973
33	Water Abstractions Operator: W Nash Licence Number: 2/27/08/125 Permit Version: 2 Location: Inland Water - River Dearne Authority: Environment Agency, North East Region Abstraction: Aquaculture: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Area Of Land Near Lowfield Road, Wath Upon Dearne, Rotherham, South Yorkshire Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (S)	184	2	445970 402110
33	Water Abstractions Operator: W Nash Licence Number: 2/27/08/125 Permit Version: 2 Location: River Dearne-Lowfield Lane-Wath On Dearne Authority: Environment Agency, North East Region Abstraction: Aquaculture: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Area Of Land Near Lowfield Road, Wath Upon Dearne, Rotherham, South Yorkshire Authorised Start: 01 September Authorised End: 31 March Permit Start Date: 30th August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (S)	184	2	445970 402110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Water Abstractions Operator: W Nash Licence Number: 2/27/08/125 Permit Version: 1 Location: River Dearne Authority: Environment Agency, North East Region Abstraction: Aquaculture: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 20 Yearly Rate (m3): 2500 Details: The Area Of Land Near Lowfield Road, Wath Upon Dearne, Rotherham, South Yorkshire Authorised Start: 01 September Authorised End: 31 March Permit Start Date: 20th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (S)	184	2	445970 402110
33	Water Abstractions Operator: Wendy Nash Licence Number: 2/27/09/175 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Pond level maintenance Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 875 Yearly Rate (m3): 6125 Details: River Dearne 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	A13SW (S)	184	2	445970 402110
34	Water Abstractions Operator: A Ogden & Sons Ltd Licence Number: 2/27/08/120 Permit Version: 101 Location: River Dearne Authority: Environment Agency, North East Region Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Common Lane Off Mexborough Road, Near Bolton -On -Dearne Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	295	2	446000 402000
34	Water Abstractions Operator: A Ogden & Sons Ltd Licence Number: 2/27/08/120 Permit Version: 100 Location: River Dearne Authority: Environment Agency, North East Region Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Common Lane Off Mexborough Road, Near Bolton -On -Dearne Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	295	2	446000 402000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Water Abstractions Operator: A Ogden & Sons Limited Licence Number: 2/27/08/129 Permit Version: Not Supplied Location: Common Lane, Off Mexborough Road, BOLTON UPON DEARNE Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 432 Yearly Rate (m3): 129600 Details: River Stream or Lake; Pump 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	A8NW (S)	295	2	446000 402000
35	Water Abstractions Operator: Gateways Fuels Ltd Licence Number: 2/27/08/127 Permit Version: 1 Location: Inland Water - Tributary Of River Dearne Authority: Environment Agency, North East Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Manvers Depot, Common Lane, Bolton Road, Wath Upon Dearne, Rotherham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	305	2	445900 402000
36	Water Abstractions Operator: British Coal Licence Number: 2/27/08/022 Permit Version: Not Supplied Location: Manvers Main Colliery, WATH-UPON-DEARNE Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 10583 Yearly Rate (m3): 3750450 Details: Not Supplied 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	A7NW (SW)	702	2	445400 401900
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/101 Permit Version: Not Supplied Location: Dearne Brickyard Fishing Ponds, Goldthorpe, ROTHERHAM, South Yorkshire Authority: Environment Agency, North East Region Abstraction: Pond level maintenance Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 264 Yearly Rate (m3): 86000 Details: 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)	1028	2	446000 403500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Environment Agency Licence Number: Ne/027/0008/010 Permit Version: 1 Location: River Dearn At Adwick Weir Authority: Environment Agency, North East Region Abstraction: Environmental: Fish Pass/Canoe Pass 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: 14th May 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1512	2	447662 402033
	Water Abstractions Operator: Thomas Black Limited Licence Number: 2/27/08/102 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 968 Yearly Rate (m3): 227300 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NE)	1969	2	447300 404095
	Water Abstractions Operator: Thomas Black Limited Licence Number: 2/27/08/095 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 968 Yearly Rate (m3): 227000 Details: Licence 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	(NE)	1973	2	447300 404100
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	A13NW (NW)	0	2	446037 402431
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	A13NW (SW)	0	2	446085 402390
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SW)	0	5	446085 402390
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Undefined Events Boundary Accuracy: As Supplied	A13SE (SE)	12	2	446168 402347

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Undefined Events Boundary Accuracy: As Supplied	A13SE (S)	35	2	446124 402296
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Undefined Events Boundary Accuracy: As Supplied	A13SW (S)	77	2	446065 402218
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial / Undefined Events Boundary Accuracy: As Supplied	A13SW (S)	101	2	446095 402212
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Undefined Events Boundary Accuracy: As Supplied	A13SW (S)	135	2	445998 402160
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Undefined Events Boundary Accuracy: As Supplied	A13SW (SW)	198	2	445904 402112
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Undefined Events Boundary Accuracy: As Supplied	A13SW (SW)	212	2	445797 402191
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Undefined Events Boundary Accuracy: As Supplied	A13SW (SW)	237	2	445794 402150
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	35	2	446124 402296
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	A13SE (S)	35	2	446124 402296
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	A13SW (S)	173	2	446065 402123
	Flood Defences Type: Flood Defences Reference: Not Supplied	A13SE (SE)	205	2	446219 402144
37	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	102	2	446296 402510
38	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	164	2	446329 402568

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A13SW (S)	165	2	446064 402129
40	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	198	2	446114 402674
41	Detailed River Network Lines River Type: Secondary River River Name: Crane Well Dike Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	274	2	446312 402712
42	Detailed River Network Lines River Type: Primary River River Name: River Dearne Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A13SW (SW)	286	2	445760 402114
43	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (E)	287	2	446430 402257
44	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	297	2	446408 402198

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Detailed River Network Lines River Type: Primary River River Name: River Dearne Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A13SE (SE)	297	2	446408 402198
46	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	305	2	445856 402016
47	Detailed River Network Lines River Type: Primary River River Name: Flood Relief Channel Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A8NW (SW)	305	2	445856 402016
48	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	323	2	446219 402787
49	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	323	2	446219 402787
50	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	326	2	446215 402791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (S)	342	2	445918 401958
52	Detailed River Network Lines River Type: Primary River River Name: Channel Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A8NW (SW)	352	2	445769 402014
53	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	363	2	446155 402837
54	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	363	2	446155 402837
55	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (SW)	369	2	445664 402106
56	Detailed River Network Lines River Type: Primary River River Name: Flood Relief Channel Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A12SE (SW)	369	2	445664 402106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	383	2	446570 402324
58	Detailed River Network Lines River Type: Secondary River River Name: Crane Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	390	2	446098 402866
59	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	390	2	446098 402866
60	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	398	2	446455 402087
61	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (NE)	414	2	446546 402698
62	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (NE)	414	2	446546 402698

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	439	2	445809 401891
64	Detailed River Network Lines River Type: Secondary River River Name: Hound Hill Dike Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	465	2	446634 402263
65	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A19SW (NE)	466	2	446481 402835
66	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DEARNE Name: Water Course: 0256 Reference:	A14SW (E)	467	2	446640 402273
67	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (NW)	480	2	445802 402892
68	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A13SW (SW)	58	2	445926 402310
69	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A13SW (SW)	60	2	445922 402285
70	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A13SE (S)	85	2	446109 402244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	BGS Recorded Landfill Sites Site Name: Marsh Tip Location: Goldthorpe, ROTHERHAM, South Yorks Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A18NE (N)	796	5	446298 403254
72	Historical Landfill Sites Licence Holder: A Ogden and Sons Limited Location: Common Lane, Mexborough, Adwick Upon Dearne, Doncaster Name: Barnburgh Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL33019 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Special Waste Type: EA Waste Ref: 65076 Regis Ref: YQ1/L/AOG001 WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: WD20/D1189, 4400/D1189, NE4065	A8NE (SE)	456	2	446331 401919
73	Historical Landfill Sites Licence Holder: Rotherham Metropolitan Borough Council Location: Off Bolton Road, Wath Upon Dearne, Rotherham, South Yorkshire Name: Wath Manvers Former Coal Preparation Site Operator Location: Norfolk House, Walker Place, Rotherham, South Yorkshire Boundary Accuracy: As Supplied Provider Reference: EAHL33008 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste Type: EA Waste Ref: 61558 Regis Ref: YQ1/L/ROT003 WRC Ref: 4400/0272 BGS Ref: Not Supplied Other Ref: WD20/R1099, 4400/R1099, NE2175	A7NE (SW)	723	2	445486 401768
74	Historical Landfill Sites Licence Holder: Wath Skip Hire Limited Location: Bolton on Dearne, Rotherham Name: Station Road Operator Location: Station Road, Bolton on Dearne, Rotherham, South Yorkshire Boundary Accuracy: As Supplied Provider Reference: EAHL04439 First Input Date: 31st March 1979 Last Input Date: 12th April 1985 Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0420 BGS Ref: Not Supplied Other Ref: WD20 B191, 4400/B191, 20B191(17)	A12NW (W)	726	2	445328 402692
75	Historical Landfill Sites Licence Holder: South Yorkshire County Council Location: Goldthorpe, Rotherham, South Yorkshire Name: Marsh Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL04441 First Input Date: 31st December 1970 Last Input Date: 31st December 1979 Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0408 BGS Ref: 1547 Other Ref: 4400/B3, 2B3(5), WD2 B3	A18NE (N)	776	2	446387 403216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	Licensed Waste Management Facilities (Landfill Boundaries) Name: Barnburgh Tip Licence Number: 65076 Location: Common Lane, Mexborough, Adwick Upon Dearne, Doncaster, S63 8L Licence Holder: A Ogden & Sons Limited Authority: Environment Agency - North East Region, Ridings Area Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Small (Less than 25,000 tonnes per year) Licence Status: Inactive Issued: 15th October 1999 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8NE (SE)	456	2	446331 401919
77	Licensed Waste Management Facilities (Landfill Boundaries) Name: Wath Manvers Former Coal Preparation Site Licence Number: 61558 Location: Off Bolton Road, Wath Upon Dearne, Rotherham, S Yorks, S60 1QT Licence Holder: Rotherham Metropolitan Borough Council Authority: Environment Agency - North East Region, Ridings Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 3rd August 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A7NE (SW)	723	2	445486 401768
78	Licensed Waste Management Facilities (Locations) Licence Number: 60612 Location: Lowfield Road, Side Of Railway Station, Bolton On Dearne, South Yorkshire Operator Name: Wright Sid Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Surrendered Issued: 9th September 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st November 2000 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	480	2	445820 402900
79	Licensed Waste Management Facilities (Locations) Licence Number: 60556 Location: Land/premises At, Lowfield Road, Bolton On Dearne, Barnsley, South Yorkshire, S63 8JD Operator Name: Number 1 Autosalvage Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Issued Issued: 22nd November 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Manually corrected supplier location	A18SW (NW)	534	2	445800 402950
80	Licensed Waste Management Facilities (Locations) Licence Number: 60544 Location: Lowfield Road, Bolton-on-dearne, Rotherham, South Yorkshire, S63 8JD Operator Name: Lowfield Road Dismantlers Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Transferred Issued: 9th June 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	547	2	445750 402940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Licensed Waste Management Facilities (Locations) Licence Number: 65076 Location: Common Lane, Adwick Upon Dearne, Doncaster, South Yorkshire, S63 8L Operator Name: A Ogden & Sons Limited Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Other Landfill Sites Taking Special Waste Licence Status: Surrendered Issued: 15th October 1999 Last Modified: 29th August 2001 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 24th May 2004 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	649	2	446700 402000
82	Licensed Waste Management Facilities (Locations) Licence Number: 60600 Location: Land At Station Road, Station Road, Bolton Upon Dearne, Rotherham, South Yorkshire, S63 Operator Name: Bryan Hargreaves Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Issued Issued: 30th October 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	755	2	445300 402700
83	Licensed Waste Management Facilities (Locations) Licence Number: 61558 Location: Off Bolton Road, Wath Upon Dearne, Rotherham, South Yorkshire, S60 1QT Operator Name: Rotherham Metropolitan Borough Council Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Surrendered Issued: 3rd August 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 12th October 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	982	2	445200 401700
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	3	446085 402390
	Local Authority Landfill Coverage Name: Doncaster Metropolitan Borough Council - Has supplied landfill data		168	4	446071 402124
	Local Authority Landfill Coverage Name: Rotherham Borough Council - Has supplied landfill data		339	12	445691 402119
84	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 17 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A12NW (W)	710	3	445342 402682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Not Supplied Reference: 5 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards</p> <p>Last Reported Status: Unknown</p> <p>Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good</p>	A18NE (N)	777	3	446379 403218
86	<p>Registered Landfill Sites</p> <p>Licence Holder: A Ogden & Sons Ltd Licence Reference: WD20 D1189 Site Location: Common Lane, off Mexborough Road, Adwick upon Dearne, DONCASTER, South Yorkshire, S63 8L</p> <p>Licence Easting: 446400 Licence Northing: 401900</p> <p>Operator Location: Boston Hall, Boston Spa, WETHERBY, West Yorkshire, LS23 6AD Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)</p> <p>Waste Source: Some restriction on source of waste</p> <p>Restrictions: Status: Operational as far as is known Dated: 15th October 1999 Preceded By: Not Given</p> <p>Licence: Superseded By: Not Given</p> <p>Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavation Materials, Soils Maximum Waste Permitted By Licence Ukw 24.01.00 Contaminated Materials Arising On Site</p> <p>Prohibited Waste: Other Waste/Waste Not Otherwise Specified</p>	A8NE (SE)	505	2	446400 401900
87	<p>Registered Landfill Sites</p> <p>Licence Holder: Rotherham M.B.C. Licence Reference: WD20 R1099 Site Location: Former Coal Preparation Site, Bolton Road, Wath Upon Dearne, Rotherham, South Yorkshire</p> <p>Licence Easting: 445450 Licence Northing: 401750</p> <p>Operator Location: Directorate of Planning, Norfolk House, Walker Place, ROTHERHAM, South Yorkshire, S60 1QT Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year)</p> <p>Waste Source: Waste produced/controlled by licence holder</p> <p>Restrictions: Status: Site not yet started Dated: 3rd August 1994 Preceded By: Not Given</p> <p>Licence: Superseded By: Not Given</p> <p>Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Aromatic & Aliphatic Hydrocarbon Arsenic Compounds Asbestos Contaminated Waste Colliery Spoil Halogenated Hydrocarbons Max.Waste Permitted By Licence Phenols, Analogues/Derivatives Sulphates Sulphides Tar, Pitch, Bitumen, Asphalts Vanadium Compounds</p>	A7NE (SW)	761	2	445450 401750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<p>Registered Landfill Sites</p> <p>Licence Holder: Wath Skip Hire Ltd Licence Reference: WD20 B 191 Site Location: Wath Skip Hire, Station Road, Bolton Upon Dearne, Barnsley, South Yorkshire Licence Easting: 445250 Licence Northing: 402650 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials \$ Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.</p>	A12NW (W)	790	2	445250 402650
89	<p>Registered Landfill Sites</p> <p>Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B 3 Site Location: Barnburgh Road, Goldthorpe, Rotherham, South Yorkshire Licence Easting: 446300 Licence Northing: 403400 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1976 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Old Licence - Wastes Not To Hand</p>	A23SE (N)	941	2	446300 403400
90	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Bryan Hargreaves Ltd Licence Reference: WD20 B 900 MOD 1 Site Location: Station Road, Bolton Upon Dearne, Rotherham, South Yorkshire Operator Location: 1 Wath Wood Road, Wath upon Dearne, ROTHERHAM, South Yorkshire, S63 7PW Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site not yet started Dated: 1st October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Commercial Waste Construction And Demolition Wastes Excavation Waste, Soil, Subsoil Ind. Non-Haz. Waste Max.Storage Max.Waste Permitted By Licence Prohibited Waste: Asbestos Of Any Type Liquid Wastes</p>	A12NW (NW)	654	2	445400 402680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Wath Skip Hire Ltd Licence Reference: WD20 B 486 Site Location: Wath Skip Hire, Station Road, Bolton Upon Dearne, Barnsley, South Yorkshire</p> <p>Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1985 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials \$ Household + Commercial Waste</p> <p>Prohibited Waste: Asbestos Food Waste Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.</p>	A12NW (W)	755	2	445300 402700
92	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: S Wright - Wath Autospares Licence Reference: WD20 B 997 MOD 1 Site Location: Bolton Car Spares, Lowfield Road, Bolton Upon Dearne, Barnsley, South Yorkshire</p> <p>Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence known to be surrenderedSurrendered Dated: 1st September 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Ferrous Metal Scrap Max.Waste Permitted By Licence Non-Ferrous Metal Scrap Scrap Vehs/Cars/Light Comm'ls Max Stor Wet Cell Batteries Max Stor.</p> <p>Prohibited Waste: Liquid Wastes Waste N.O.S.</p>	A18SW (NW)	480	2	445820 402900
93	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Number 1 Autosalvage Licence Reference: WD20 B1127 MOD 2 Site Location: No 1 Autosalvage, Lowfield Road, Bolton Upon Dearne, Barnsley, South Yorkshire</p> <p>Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 22nd November 1996 Preceded By: WD20 B1003 Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Scrap Com.Vehs/Trailers/Cars Max.Stor Tyres Max.Stor Wet Cell Batteries</p> <p>Prohibited Waste: Liquid Wastes Waste N.O.S.</p>	A18SW (NW)	534	2	445800 402950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: M D B White & M.A.Dobson t/a 1 Autosalvage Licence Reference: WD20 B1003 Site Location: No 1 Autosalvage, Lowfield Road, Bolton Upon Dearne, Barnsley, South Yorkshire Operator Location: 15 Lewes Road, CONISBROUGH, South Yorkshire, DN12 2NN Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1993 Preceded By: Not Given Licence: Superseded By: WD20 B1127 MOD 2 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Cars/Light Comm.Vehicles Max.Stor. Wet Cell Batteries Max.Stor. Prohibited Waste: Liquid Wastes Waste N.O.S.</p>	A18SW (NW)	534	2	445800 402950
94	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Mr Leach t/a Leach Brothers Licence Reference: WD20 B1002 MOD 2 Site Location: Lowfield Road, Bolton Upon Dearne, Barnsley, South Yorkshire Operator Location: c/o 71 Calder Road, BOLTON UPON DEARNE, South Yorkshire, S63 8JH Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st March 1997 Preceded By: WD20 B1002 Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Cars Max.Stor Light Commercial Vehicles Max.Waste Permitted By Licence Prohibited Waste: Liquid Wastes Waste N.O.S.</p>	A17SE (NW)	547	2	445750 402940
94	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Mr Leach t/a Leach Brothers Licence Reference: WD20 B1002 Site Location: Lowfield Road, Bolton Upon Dearne, Barnsley, South Yorkshire Operator Location: c/o 71 Calder Road, BOLTON UPON DEARNE, South Yorkshire, S63 8JH Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st June 1993 Preceded By: Not Given Licence: Superseded By: WD20 B1002 MOD 2 Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Batteries Max.Stor Cars Max.Stor Light Commercial Vehicles Prohibited Waste: Liquid Wastes</p>	A17SE (NW)	547	2	445750 402940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Upper Westphalian (including Pennant Measures)	A13NW (SW)	0	5	446085 402390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	0	6	446000 402390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (SW)	0	6	446085 402390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	63	6	446117 402253
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	67	6	445990 402216
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	77	6	446000 402218
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	79	6	445997 402212

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13SW (SW)	84	6	446000 402211
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	260	6	445857 402667
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (S)	294	6	446000 402000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (S)	295	6	446085 402000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (SW)	301	6	445894 402001
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (SW)	306	6	445897 402000

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	326	6	446000 402788
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	336	6	446395 402738
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (S)	348	6	446000 401947
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	350	6	446037 402821
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SW (N)	371	6	446064 402846
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (SW)	392	6	445614 402156

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	394	6	446000 402859
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SW (N)	441	6	446000 402907
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NW (SE)	452	6	446449 402000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	500	6	446497 401980
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SW (N)	523	6	446085 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SW (N)	533	6	446000 403000

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SE (N)	535	6	446233 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	551	6	445898 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	567	6	445837 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	587	6	446063 403063
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	592	6	446300 401759
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	595	6	446334 401771

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	609	6	446468 401820
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A18NW (N)	616	6	446000 403084
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A8SW (S)	627	6	446000 401667
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	671	6	446663 401908
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14NE (E)	790	6	447000 402390
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Rural Soil</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A7NW (SW)	798	6	445404 401744

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	871	6	446921 402959
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	879	6	446900 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	887	6	447000 402858
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	904	6	445542 401504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NE (SE)	910	6	447000 402000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SW (SW)	922	6	445315 401657

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	931	6	446694 401584
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	959	6	447000 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	961	6	447000 401896
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	966	6	445110 401878
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (W)	982	6	445000 402390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11SE (W)	999	6	445000 402111

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	BGS Recorded Mineral Sites Site Name: Gas Works Clay Pit Location: , Bolton-Upon-Dearne, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108122 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Alluvium Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NW (N)	632	5	445830 403066
96	BGS Recorded Mineral Sites Site Name: Bolton Hall Quarry Location: , Bolton-Upon-Dearne, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108121 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Mexborough Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	811	5	445228 402651
97	BGS Recorded Mineral Sites Site Name: Furlong Road Brickworks Location: Furlong Road, Goldthorpe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13103 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A23SW (N)	987	5	445910 403445
	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.	A13NW (SW)	0	7	446085 402390
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SW)	0	-	446085 402390
	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	A13NW (SW)	0	5	446085 402390
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	85	5	446094 402221
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	79	5	445911 402385
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	85	5	446094 402221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	79	5	445911 402385
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	85	5	446094 402221
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	5	446021 402285
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	85	5	446094 402221
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	120	5	446170 402599
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	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 (S)	0	5	446085 402326
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	5	446085 402390
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	5	446085 402326

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Contemporary Trade Directory Entries Name: No 1 Auto Salvage Location: Lowfield Road, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8JD Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (N)	77	-	446094 402554
99	Contemporary Trade Directory Entries Name: Lowfield Road Dismantlers Location: Lowfield Farm, Lowfield Rd, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8JG Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Manually positioned to the address or location	A13NW (N)	125	-	446072 402599
100	Contemporary Trade Directory Entries Name: Dearne Metals Location: 3 Lowfield Rd, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8JF Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	192	-	445868 402583
101	Contemporary Trade Directory Entries Name: Aqua Scaffolding Location: 1, Watermead, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8NF Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	330	-	445652 402305
102	Contemporary Trade Directory Entries Name: Ogden Group Of Companies Ltd Location: Mexborough Rd, Bolton-Upon-Dearne, Rotherham, South Yorkshire, S63 8LX Classification: Coal Mining Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	332	-	445670 402180
102	Contemporary Trade Directory Entries Name: Dearne Filling Station Location: Mexborough Rd, Bolton Upon Dearne, Rotherham, South Yorkshire, S63 8LX Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	361	-	445638 402184
103	Contemporary Trade Directory Entries Name: Gateways Fuels Ltd Location: Mambors Depot, Mexborough Rd, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8LX Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	352	-	445637 402225
104	Contemporary Trade Directory Entries Name: G M Asquith Location: 18-20, Cemetery Road, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8LS Classification: Gate Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	528	-	445467 402411
105	Contemporary Trade Directory Entries Name: Motor Spares Uk Location: Lowfield Road, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8JD Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	530	-	445771 402932
106	Contemporary Trade Directory Entries Name: Barnies Rubble Fencing & Diy Location: 22, Station Road, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8AB Classification: Fencing Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	605	-	445465 402710
107	Contemporary Trade Directory Entries Name: Tonge & Associates Location: 4, Chapel Street, Bolton-upon-Dearne, Rotherham, South Yorkshire, S63 8HY Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	661	-	445499 402873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Contemporary Trade Directory Entries Name: Hometune Motoring Services Location: 5, Rydal Close, Bolton-upon-Deerne, Rotherham, South Yorkshire, S63 8NN Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	704	-	445281 402362
109	Contemporary Trade Directory Entries Name: Jwh Location: 6, Kendal Drive, Bolton-upon-Deerne, Rotherham, South Yorkshire, S63 8NJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	786	-	445207 402426
110	Contemporary Trade Directory Entries Name: Andrew Cowley Location: Tramways, Wath Rd, Bolton Upon Dearne, Rotherham, South Yorkshire, S63 8JP Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (W)	786	-	445233 402554
111	Contemporary Trade Directory Entries Name: L A W Andrews (Mexborough) Ltd Location: 17-21, Wath Road, Bolton-upon-Deerne, Rotherham, South Yorkshire, S63 8LQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	810	-	445198 402502
111	Contemporary Trade Directory Entries Name: Andrews Location: Wath Rd, Bolton-upon-Deerne, Rotherham, South Yorkshire, S63 8LQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	847	-	445162 402510
112	Contemporary Trade Directory Entries Name: S.M. Auto Services Location: 42, Wath Road, Bolton-upon-Deerne, Rotherham, South Yorkshire, S63 8JP Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	884	-	445127 402523
113	Contemporary Trade Directory Entries Name: Accident Repair Centre Location: 202, Furlong Road, Goldthorpe, Rotherham, South Yorkshire, S63 9PR Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	953	-	445778 403385
114	Fuel Station Entries Name: Dearne Filling Station Location: Mexborough Road, Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8LX Brand: Wcf Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A12SE (SW)	361	-	445638 402184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Areas of Adopted Green Belt Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Unitary Development Plan Status: Adopted Plan Date: 31st December 2000	A13SE (SE)	6	8	446162 402350
116	Areas of Adopted Green Belt Authority: Doncaster Metropolitan Borough Council Plan Name: Doncaster Unitary Development Plan Status: Adopted Plan Date: 31st July 1998	A13SW (S)	169	9	446071 402126
117	Areas of Adopted Green Belt Authority: Rotherham Metropolitan Borough Council Plan Name: Rotherham Unitary Development Plan Status: Adopted Plan Date: 14th June 1999	A12SE (SW)	349	10	445683 402113
118	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NW (SW)	0	11	446085 402390

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Rotherham Metropolitan Borough Council - Environmental Health Department Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health	April 2014 July 2013 November 2012 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	August 2014	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North East Region	August 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North East Region	August 2014	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	August 2014 August 2014	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	July 2014	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	August 2014	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	April 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2014	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2014	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2014	Quarterly
Flood Defences Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	May 2014 May 2014	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2014 July 2014	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	August 2014 August 2014	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Rotherham Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Rotherham Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites Health and Safety Executive	November 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Doncaster Metropolitan Borough Council Wakefield City Metropolitan District Council Rotherham Metropolitan Borough Council Barnsley Metropolitan Borough Council - Planning Department	April 2013 February 2013 November 2013 October 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Doncaster Metropolitan Borough Council Wakefield City Metropolitan District Council Rotherham Metropolitan Borough Council Barnsley Metropolitan Borough Council - Planning Department	April 2013 February 2013 November 2013 October 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

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

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

A selection of organisations who provide data within this report

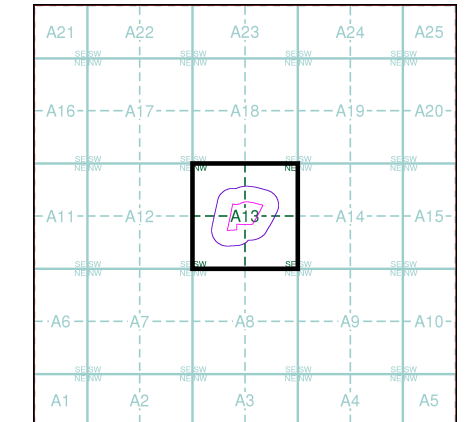
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
4	Doncaster Metropolitan Borough Council - Environmental Services Floor 3, Council House, College Road, Doncaster, South Yorkshire, DN1 1RN	Telephone: 01302 734444 Fax: 01302 734949 Website: www.doncaster.gov.uk
5	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
6	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
7	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
9	Doncaster Metropolitan Borough Council Danum House, St Sepulchre Gate, Doncaster, South Yorkshire, DN1 1UB	Telephone: 01302 734854 Fax: 01302 734949 Website: www.doncaster.gov.uk
10	Rotherham Metropolitan Borough Council Bailey House, Rawmarsh Road, Rotherham, South Yorkshire, S60 1QT	Telephone: 01709 382121 Fax: 01709 823810 Website: www.rotherham.gov.uk
11	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
12	Rotherham Metropolitan Borough Council - Environmental Health Department Howard Building, College Lane, Rotherham, South Yorkshire, S65 1AX	Website: www.rotherham.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

- 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
- 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
 - 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
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment A13

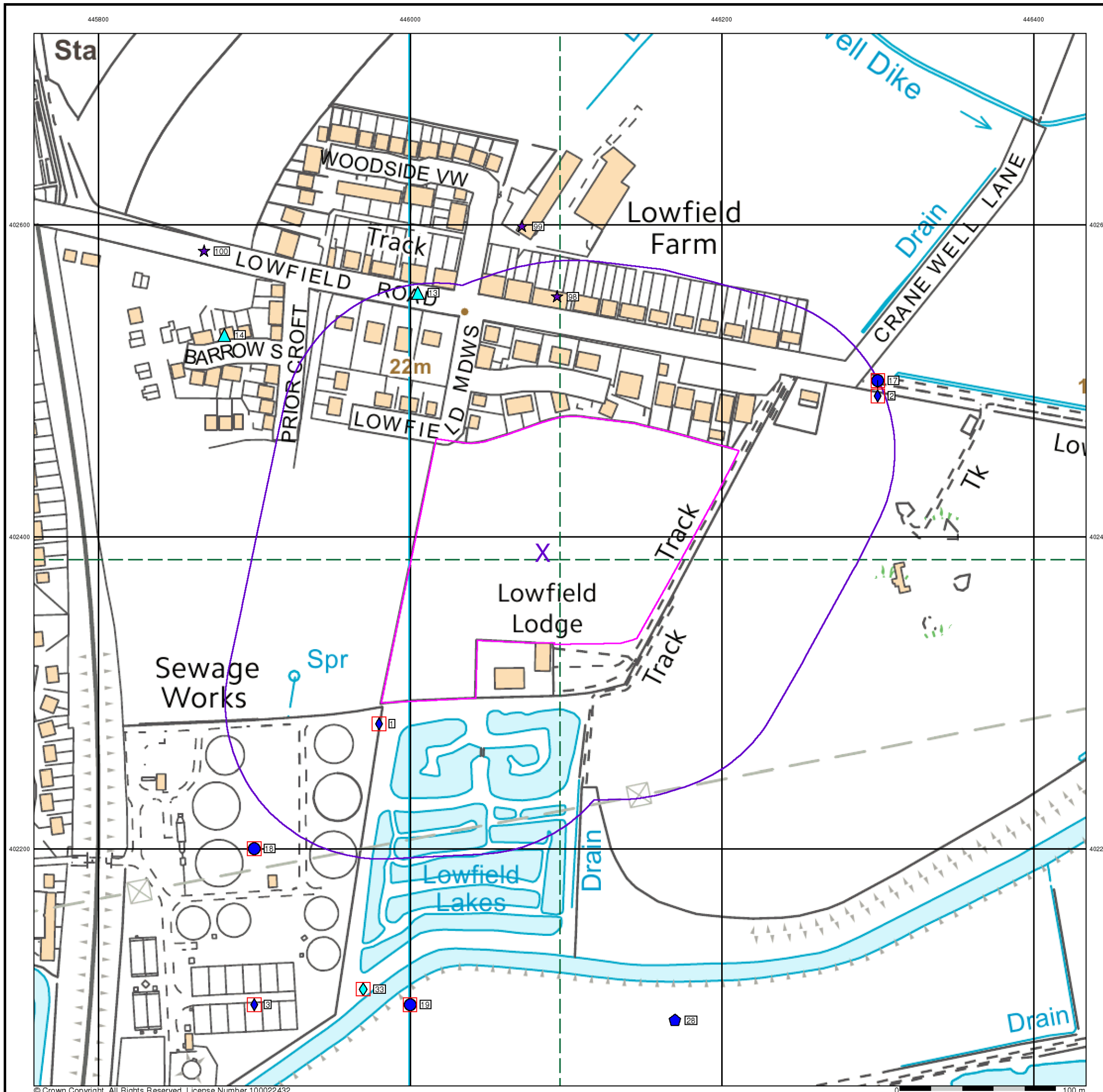


Order Details

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 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62

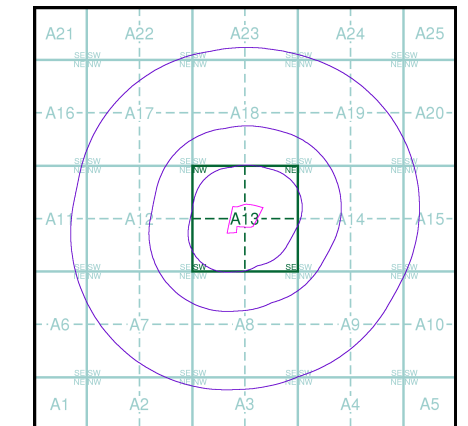
Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
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 - Local Authority Pollution Prevention and Control Enforcement
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 - Prosecution Relating to Authorised Processes
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 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice A

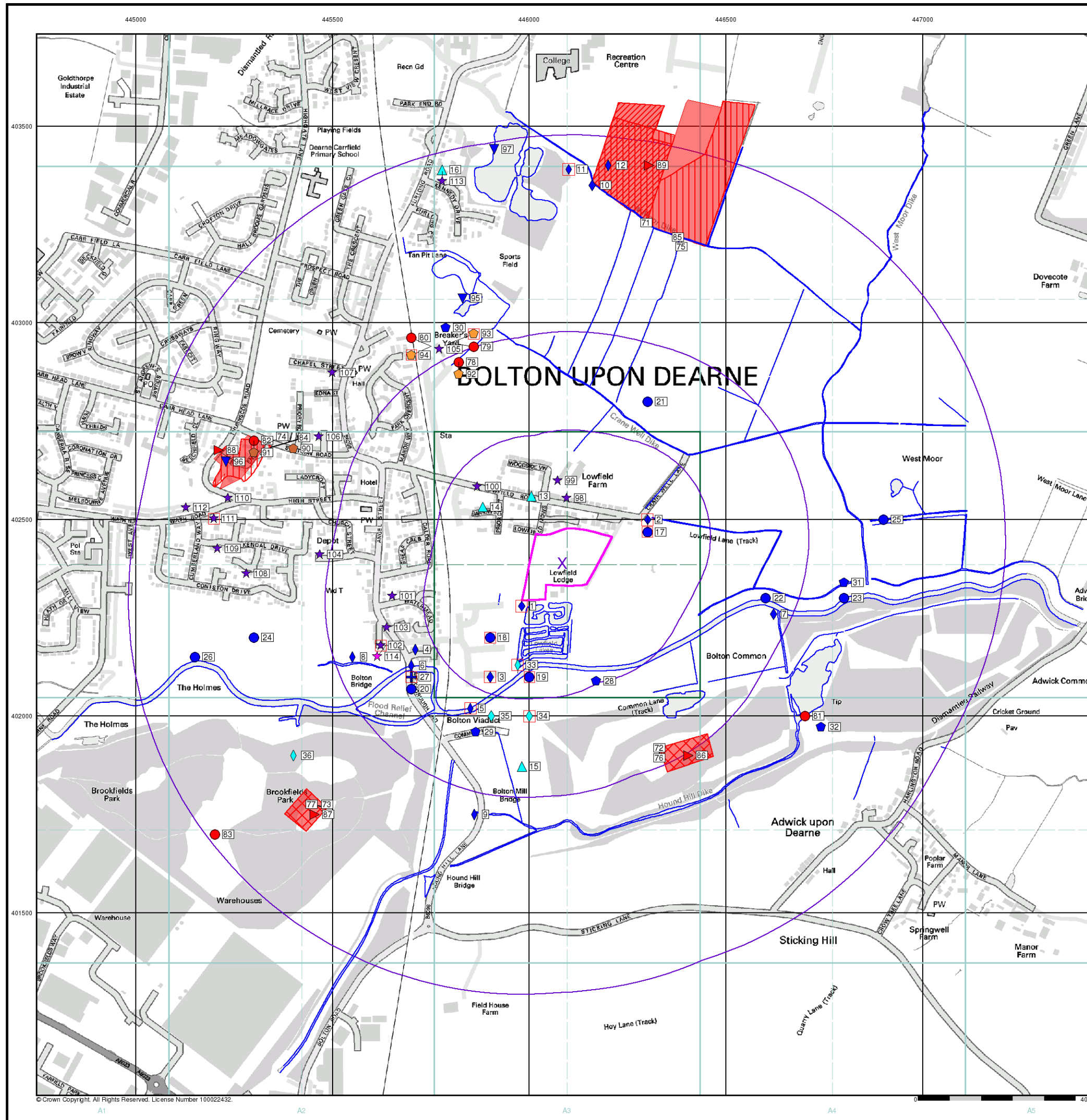


Order Details

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 National Grid Reference: 446090, 402390
 Slice: A
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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



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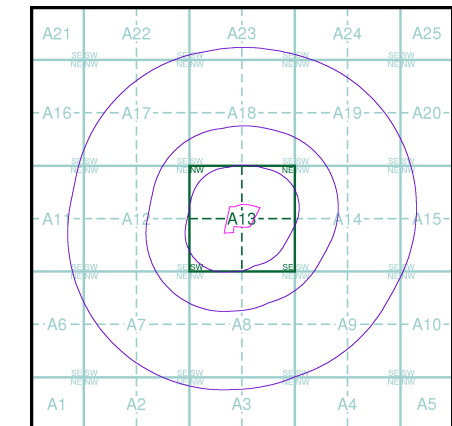
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

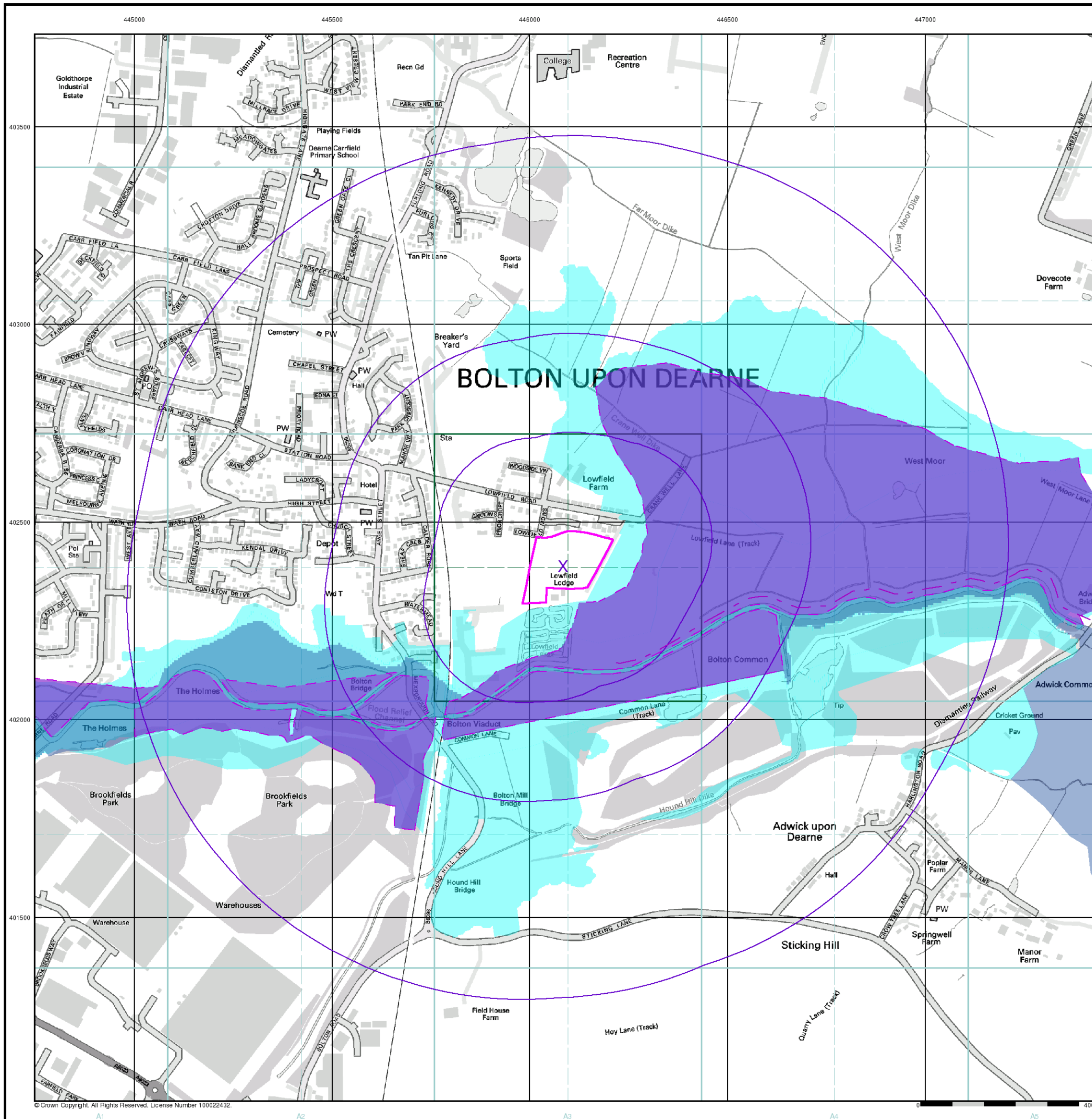


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Site Details

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General

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- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

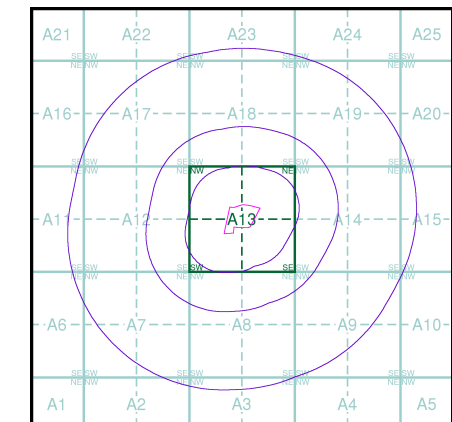
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

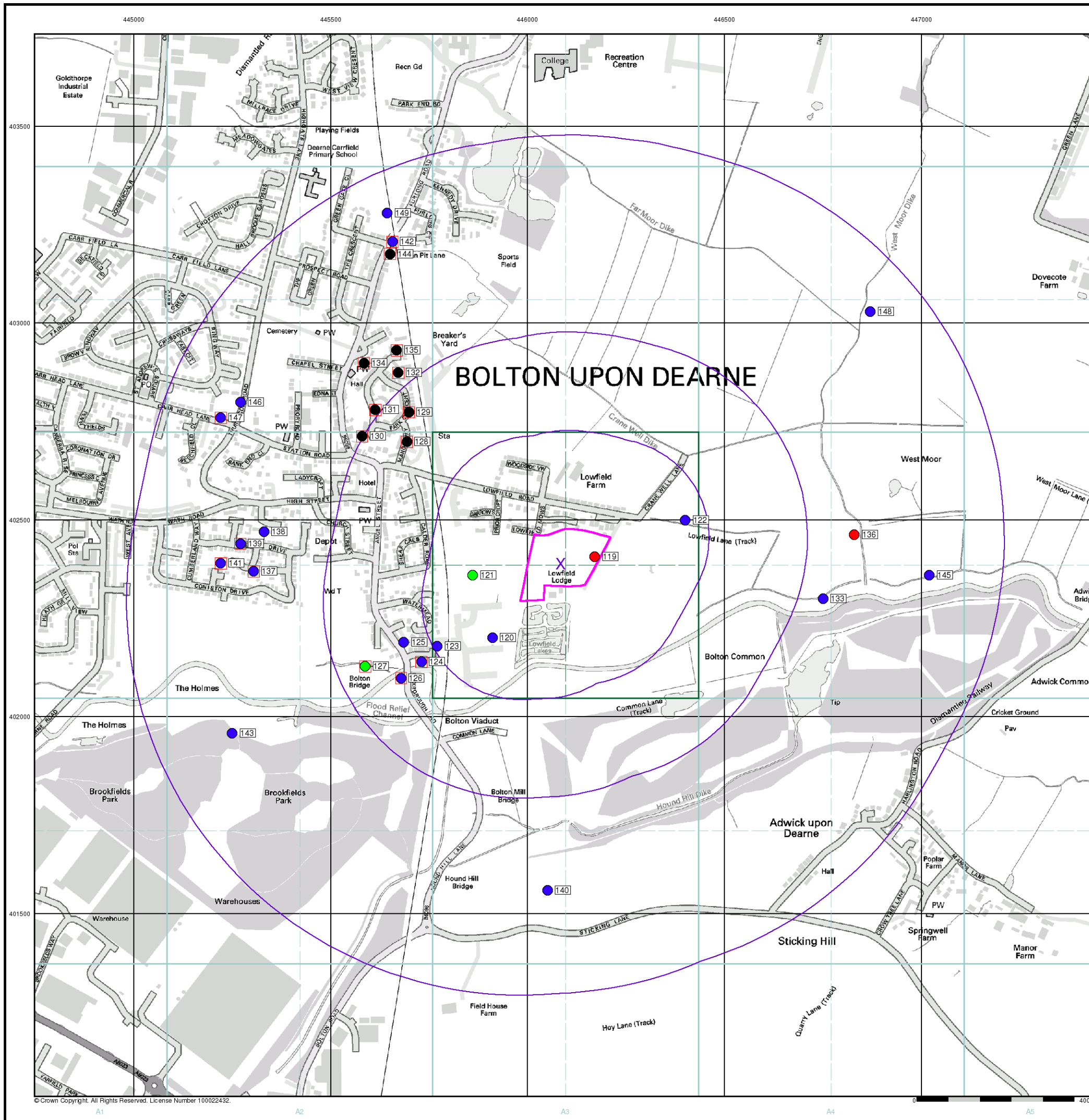


Order Details

Order Number: 60541545_1_1
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 National Grid Reference: 446090, 402390
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 Search Buffer (m): 1000

Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



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General

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

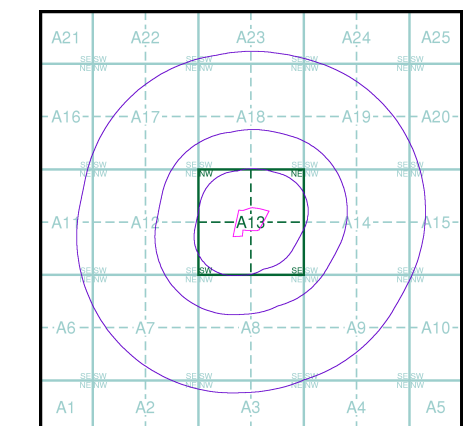
Detailed River Network Data

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

Contours (height in metres)

- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height *167.3
- MLW Mean Low Water
- MHW Mean High Water

EANRW Detailed River Network Map - Slice A

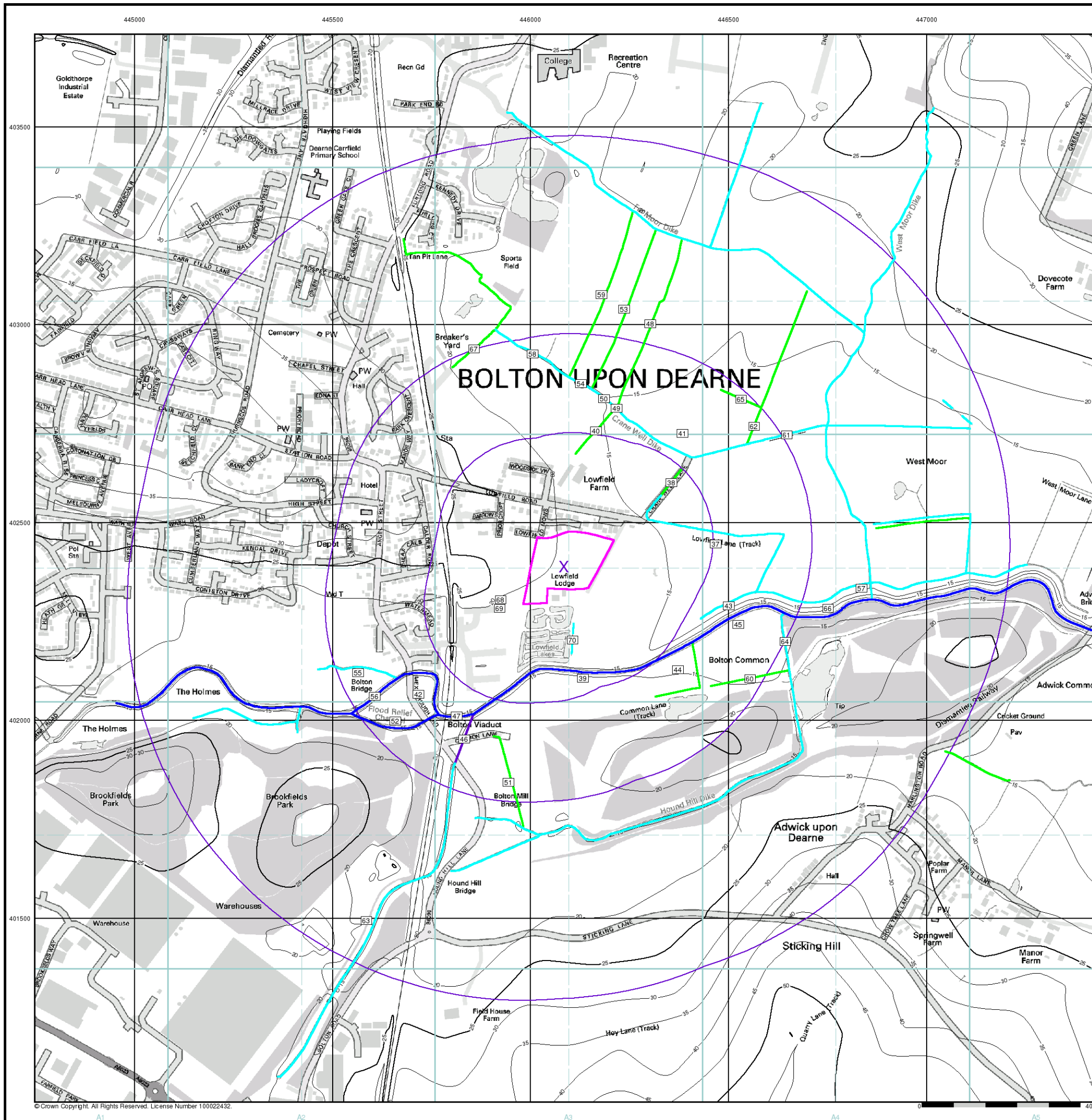


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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



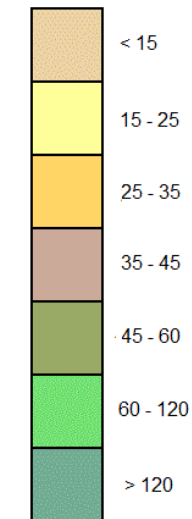
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General

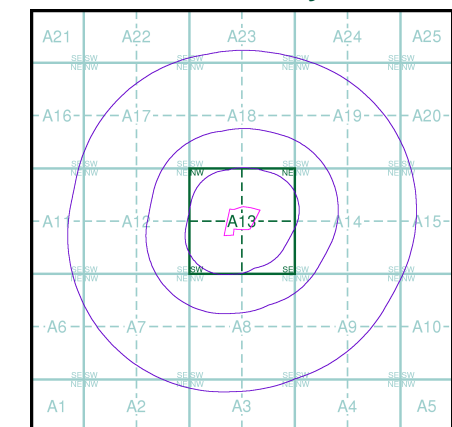
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

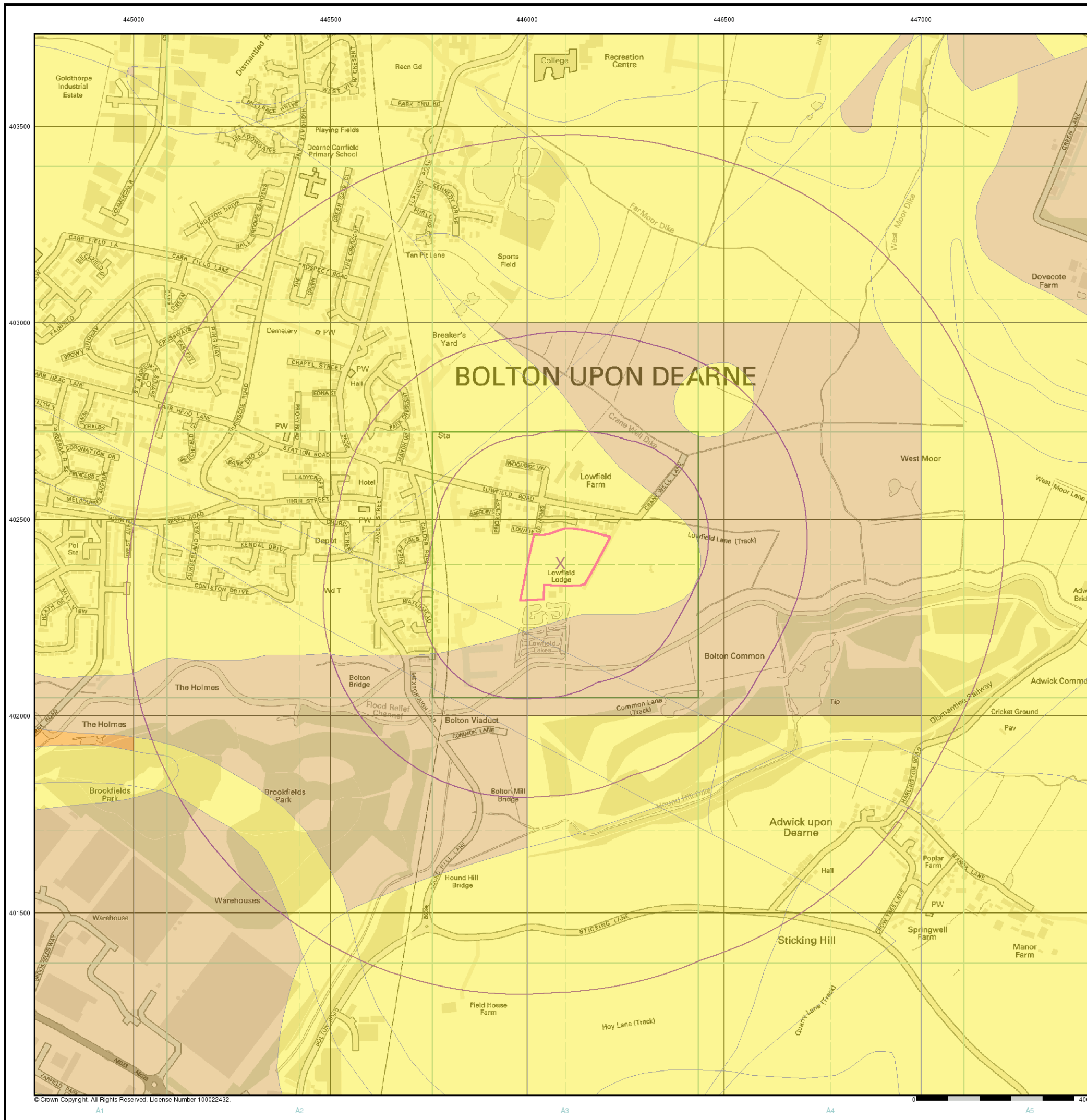


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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



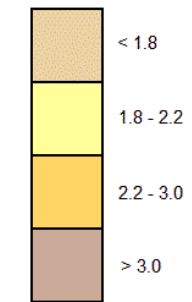
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General

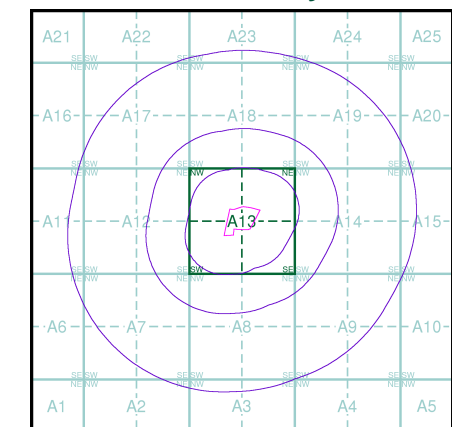
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

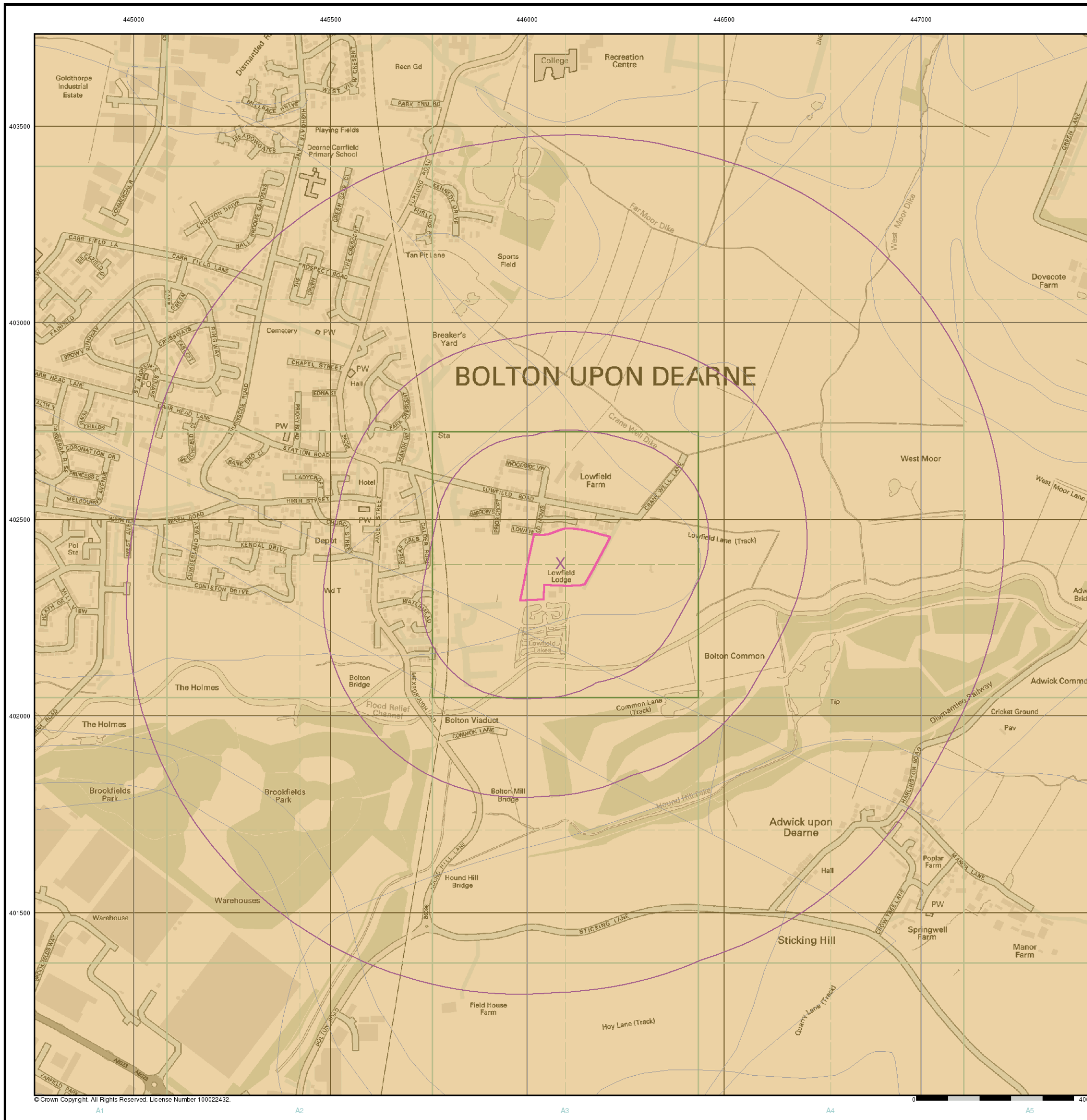


Order Details

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 Customer Ref: 37666/PR
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 Slice: A
 Site Area (Ha): 2.62
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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



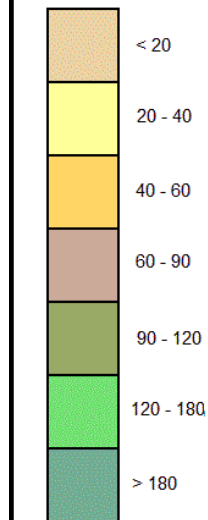
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General

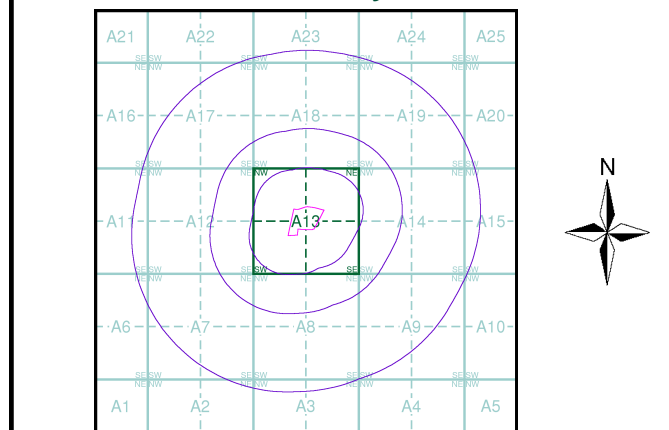
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

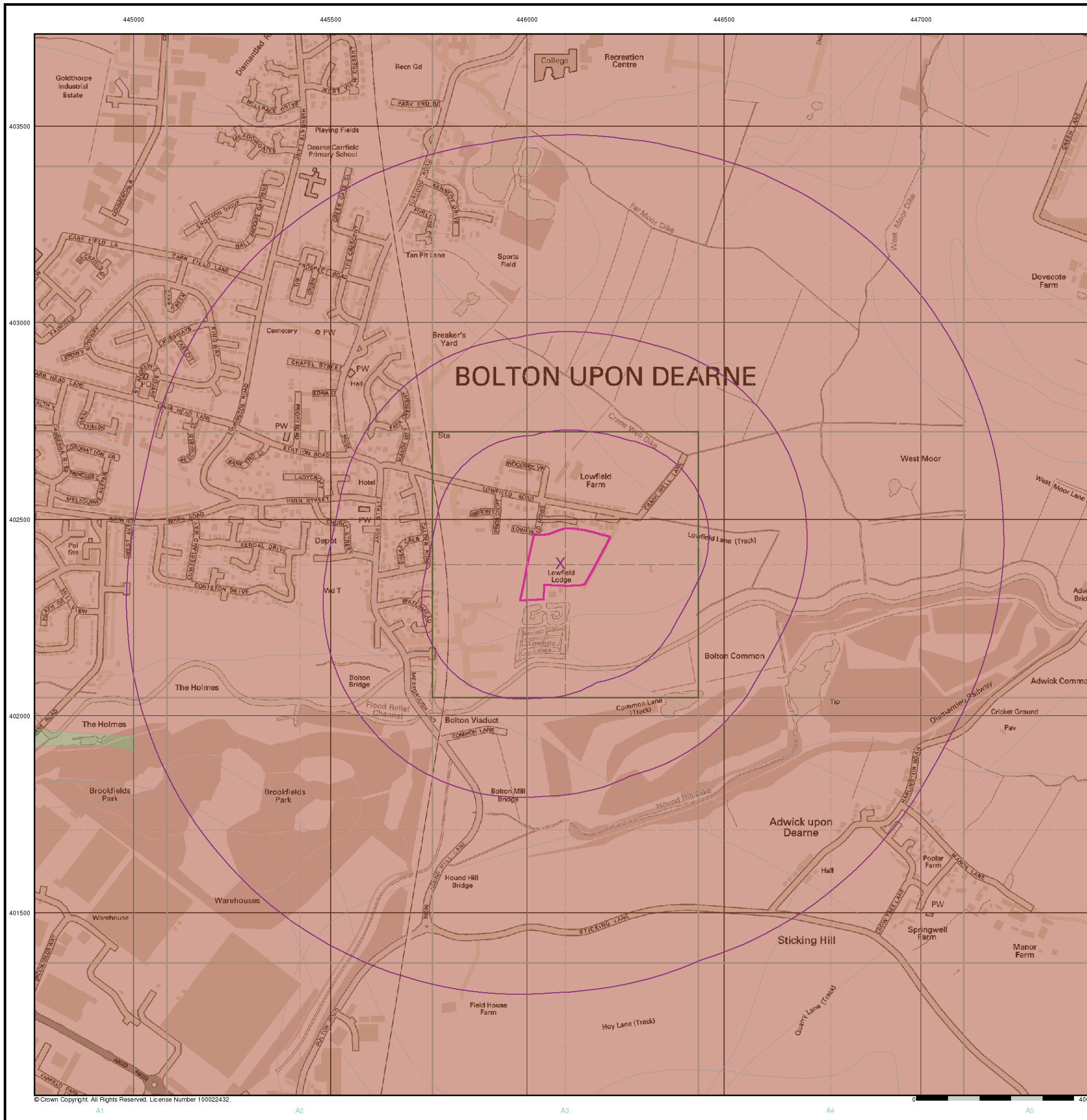


Order Details

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Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ

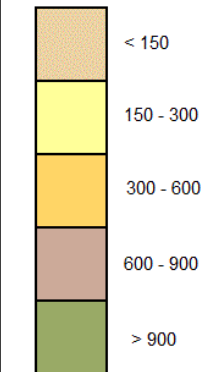


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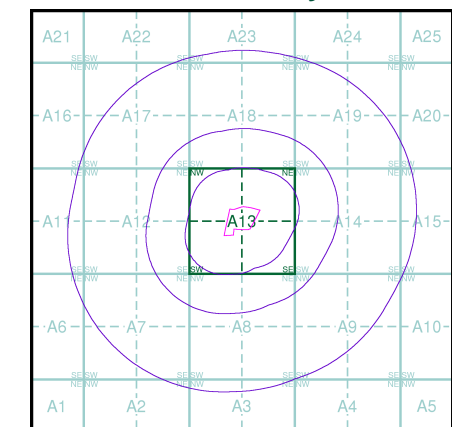
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

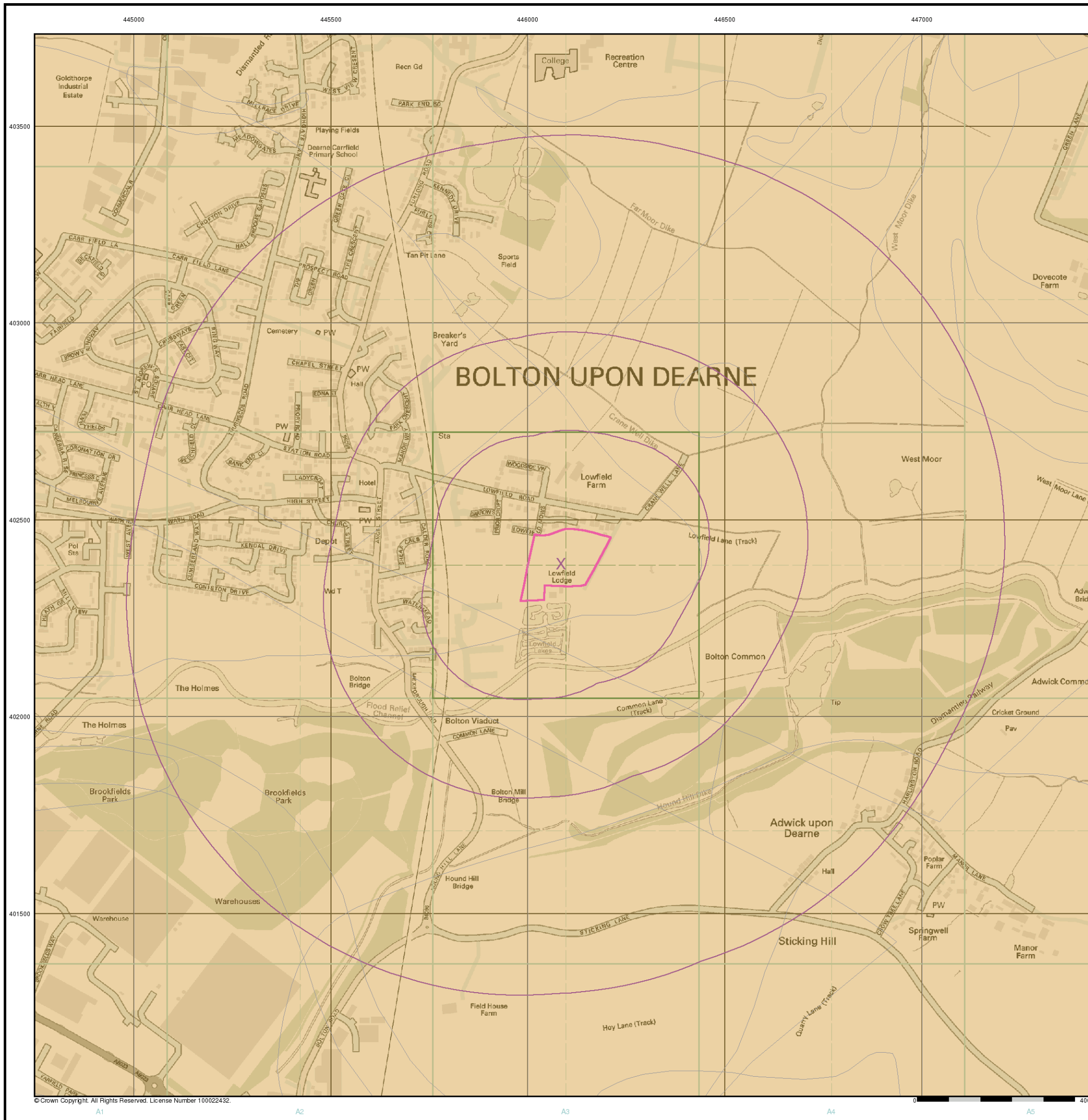


Order Details

Order Details: 60541545_1_1
 Customer Ref: 37666/PR
 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



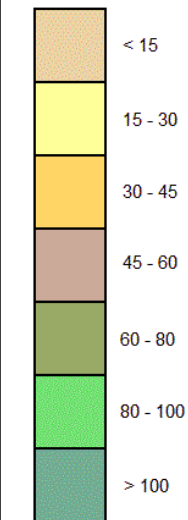
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General

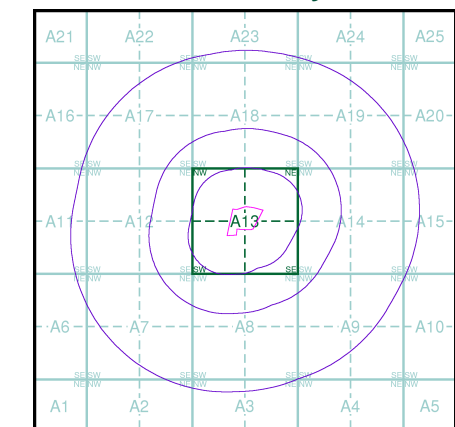
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

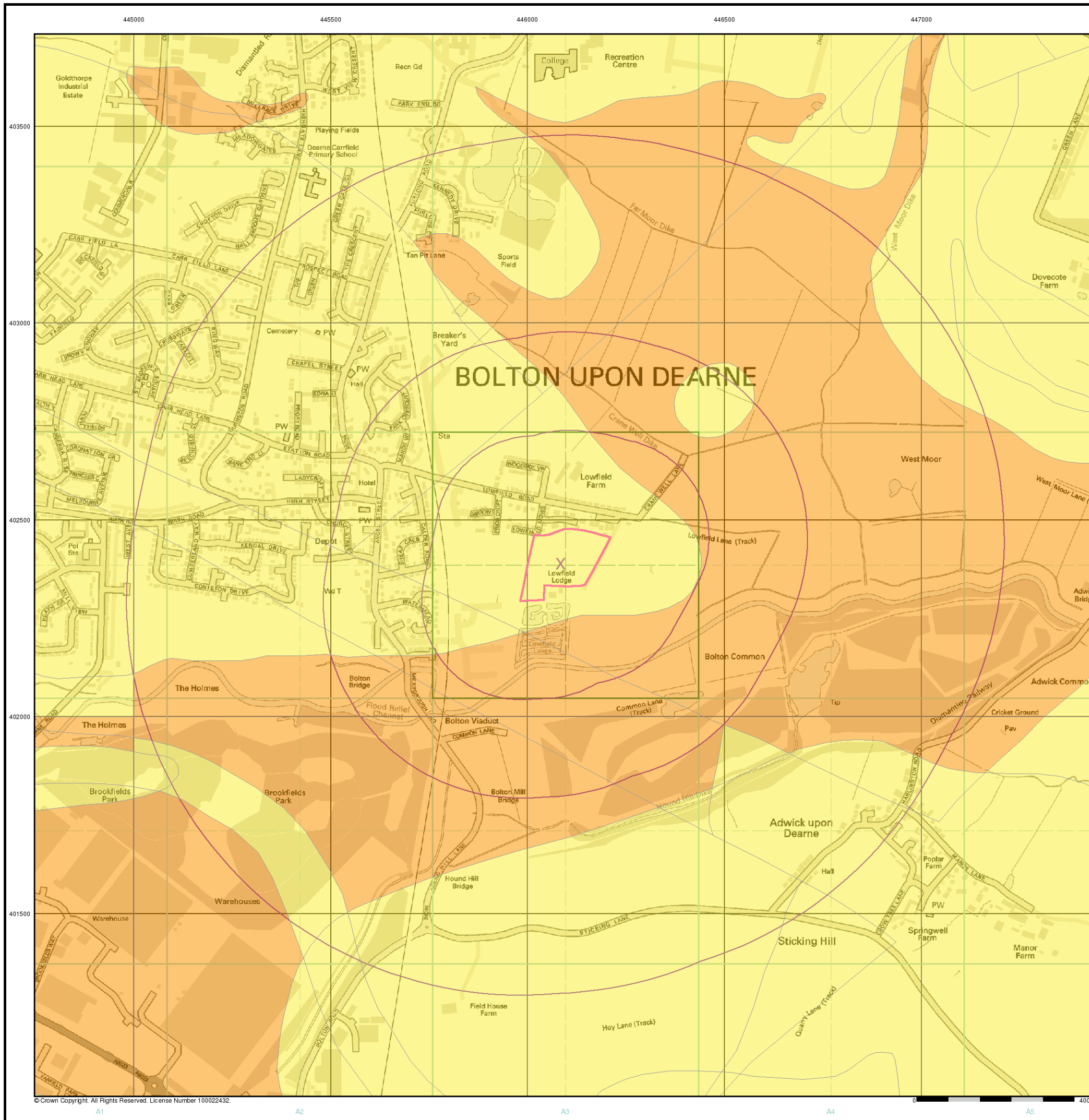


Order Details

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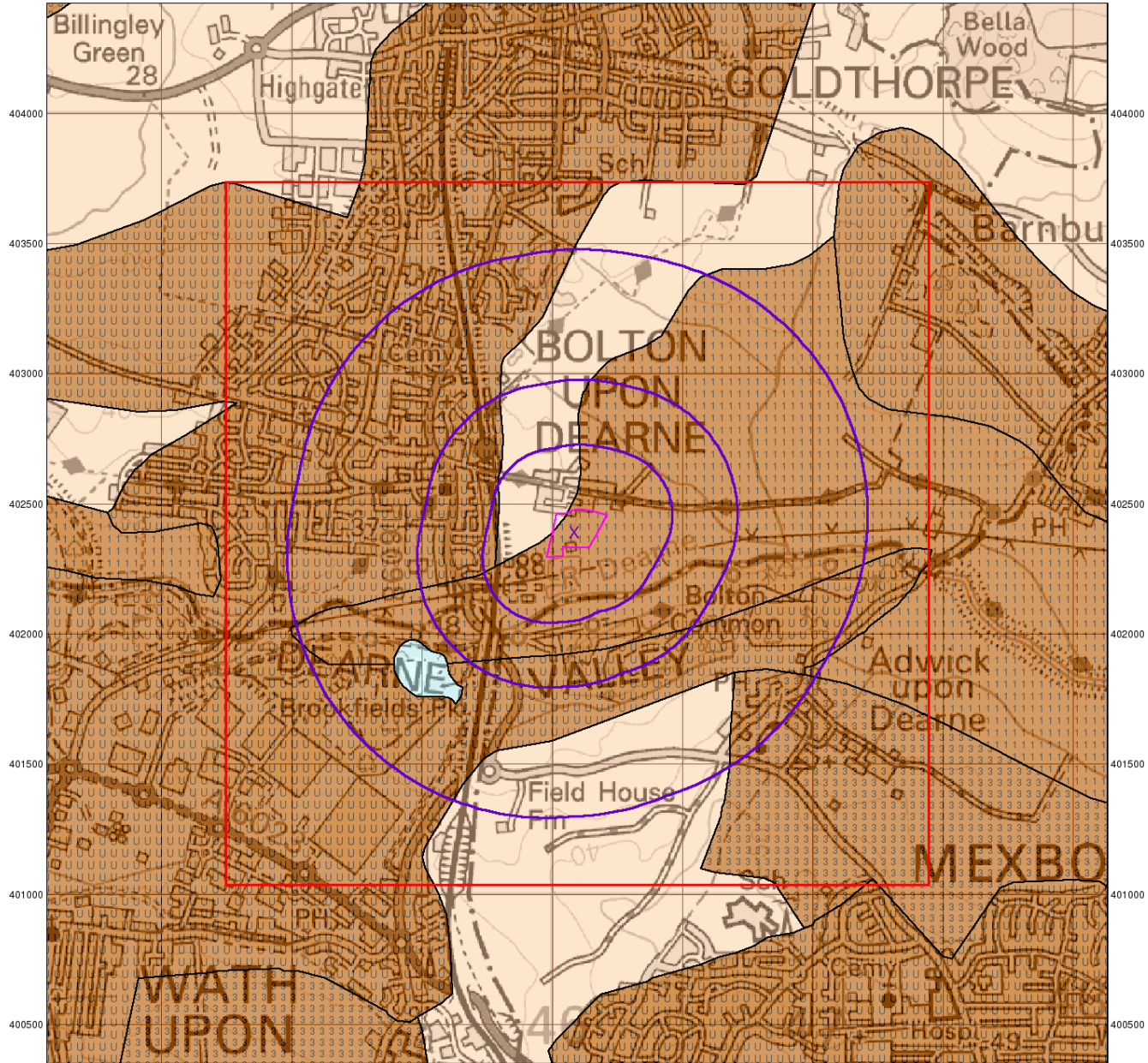
Site Details

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Groundwater Vulnerability

General

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

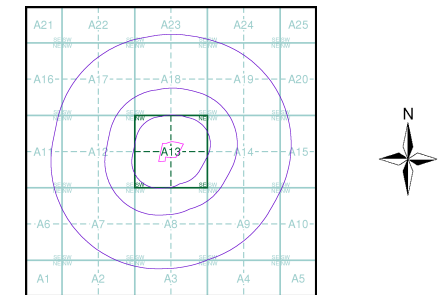
Agency and Hydrological

Geological Classes

- | | |
|---|--|
| Major Aquifer (Highly Permeable) | <ul style="list-style-type: none"> High (H) 1, 2, 3, U Intermediate (I) 1, 2 Low |
| Minor Aquifer (Variably Permeable) | <ul style="list-style-type: none"> High (H) 1, 2, 3, U Intermediate (I) 1, 2 Low |
| Non Aquifer (Negligibly Permeable) | |
| Water or Sea | |
| Drift Deposit | |

Soil Classes

Site Sensitivity Context Map - Slice A



Order Details

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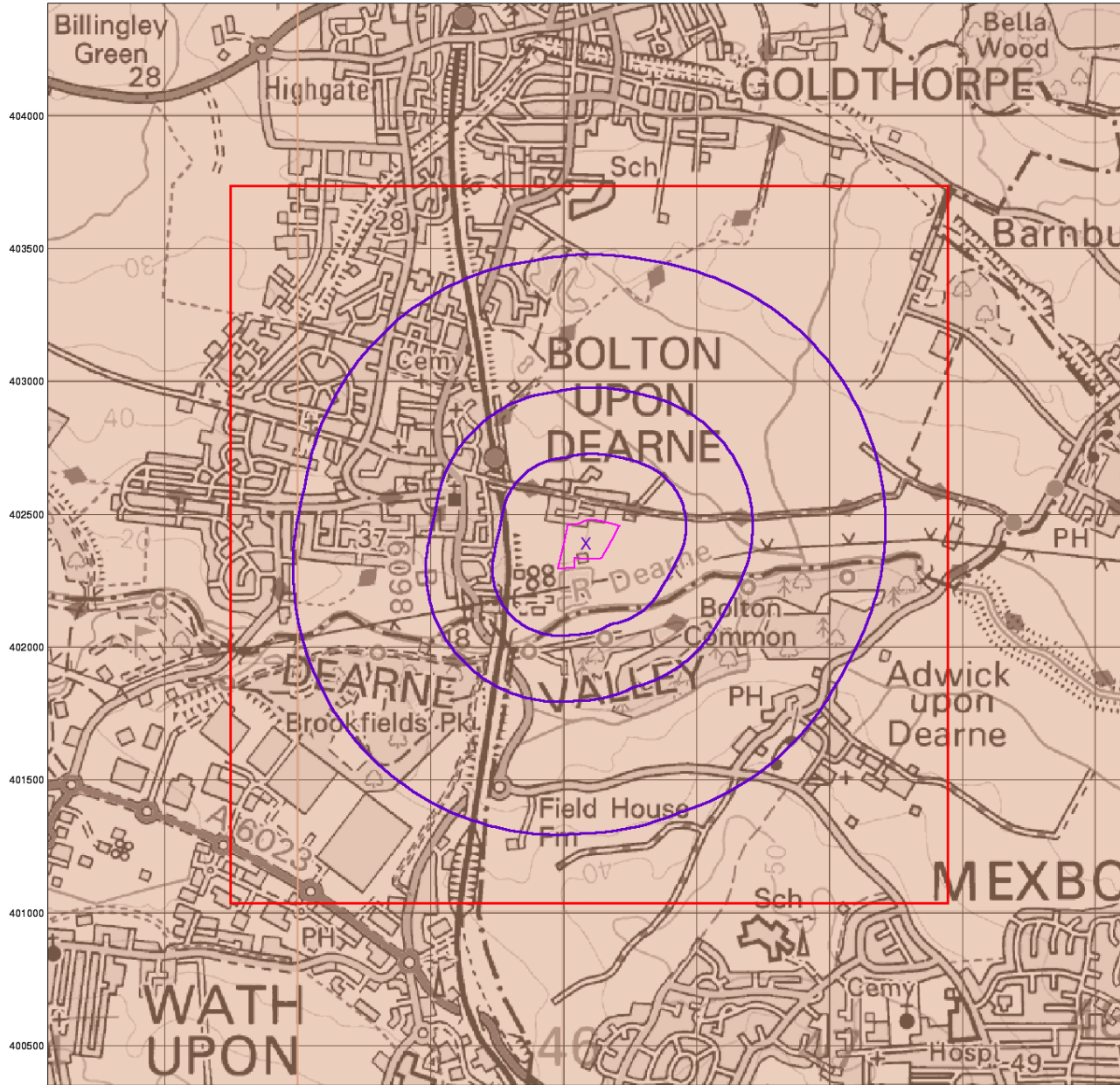
Site Details

Bolton-upon-Deerne, ROTHERHAM, South Yorkshire, S63 8JQ



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

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0 1 km



Bedrock Aquifer Designation

General

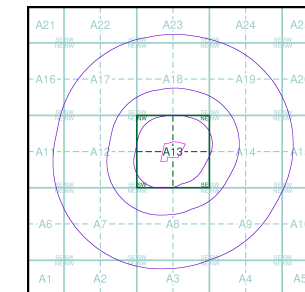
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

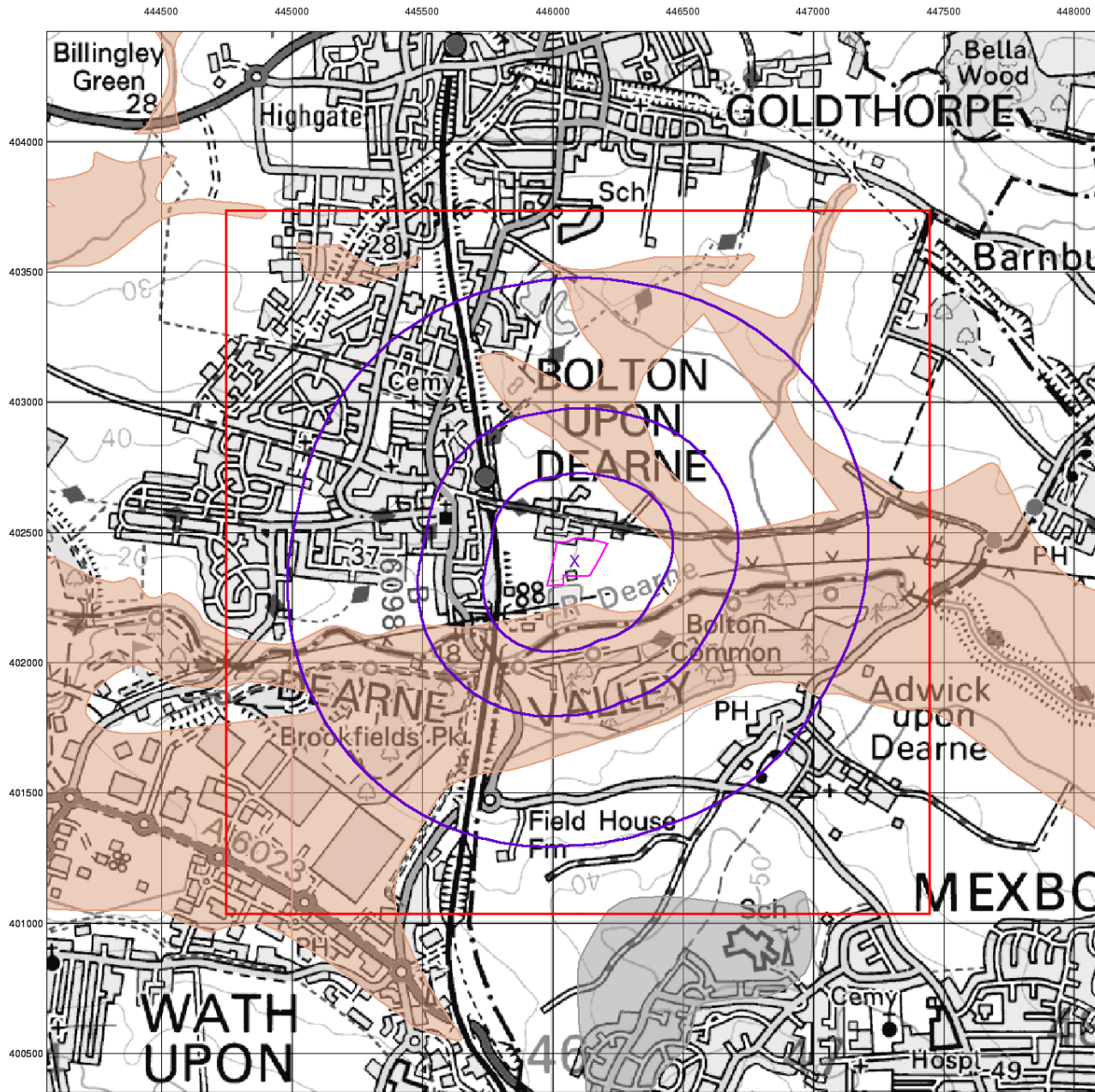
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 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearne, ROTHERHAM, South Yorkshire, S63 8JQ



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



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Superficial Aquifer Designation

General

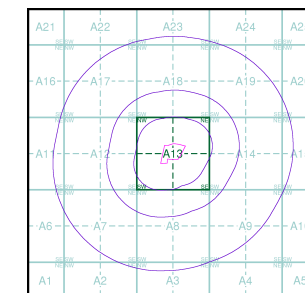
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

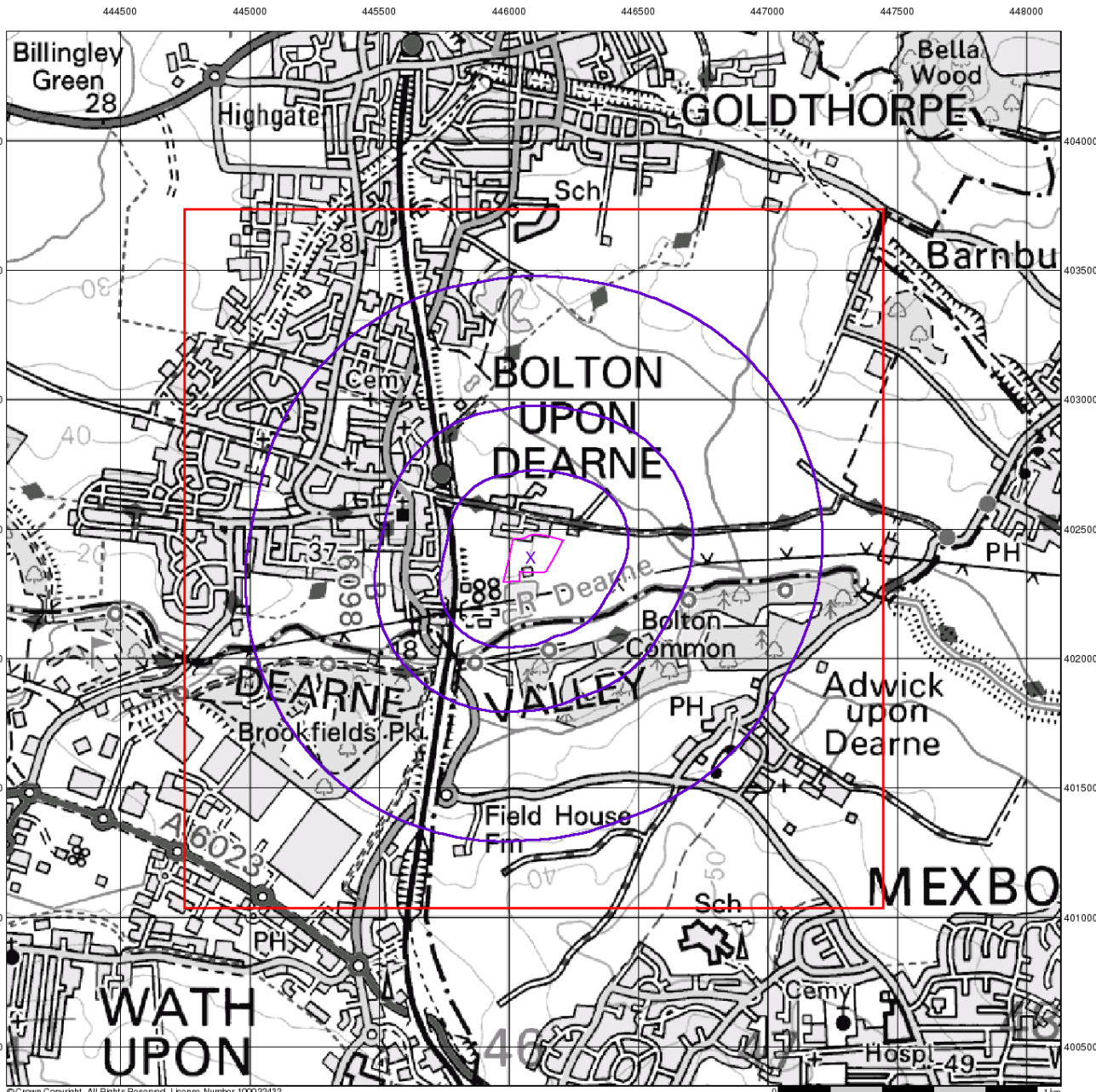
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Site Details

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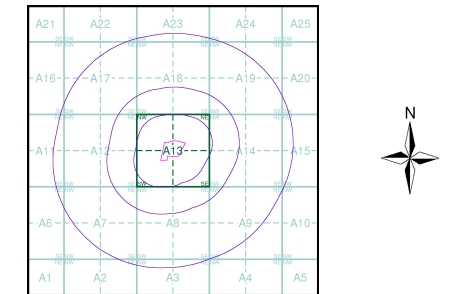
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Source Protection Zones

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Agency and Hydrological**
- Source Protection Zone I
 - Source Protection Zone II
 - Source Protection Zone III
 - Zone of Special Interest
 - Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

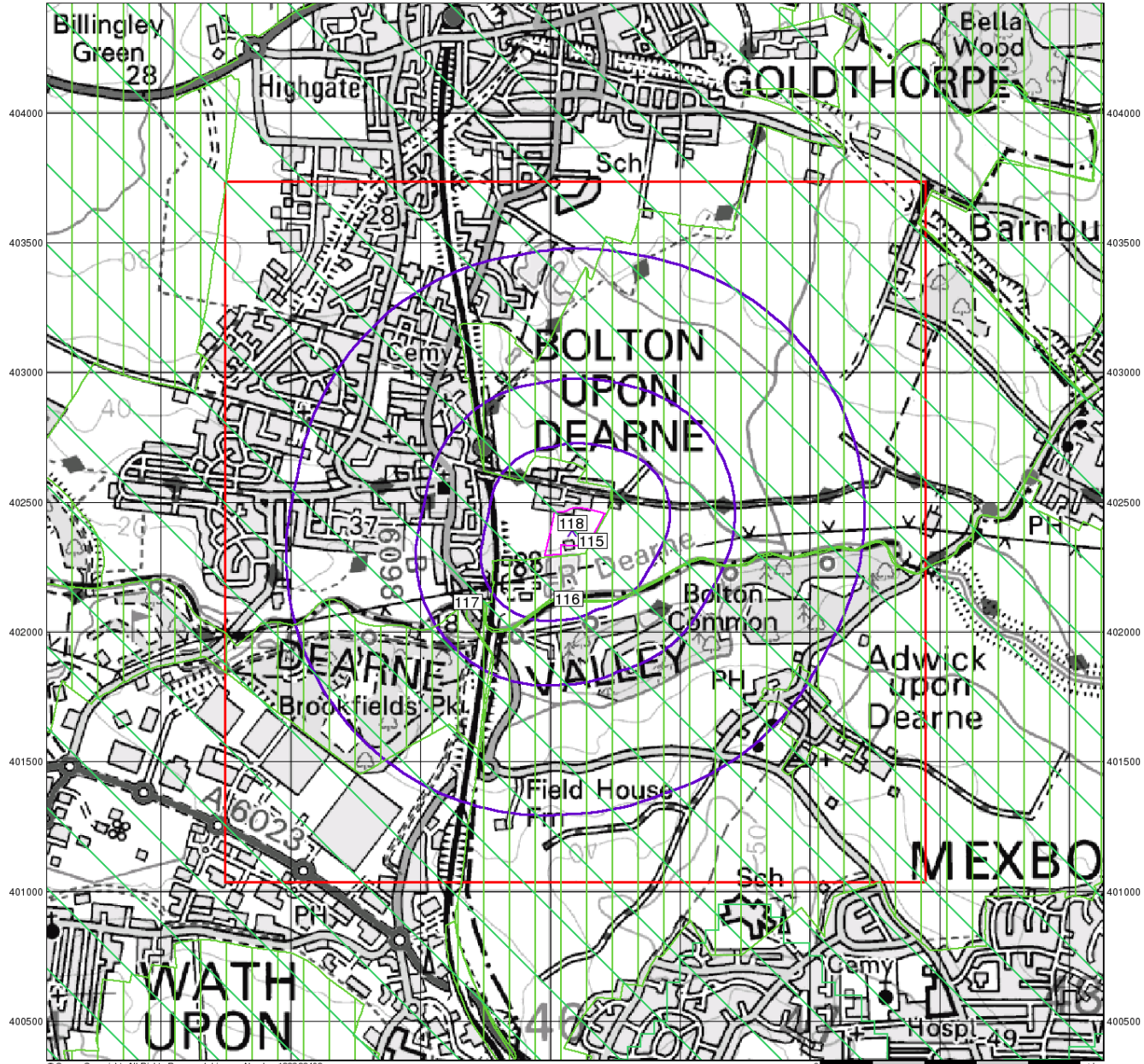
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Sensitive Land Uses

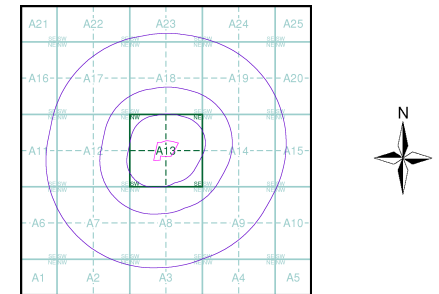
General

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

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- 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

Site Sensitivity Context Map - Slice A



Order Details

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 National Grid Reference: 446090, 402390
 Slice: A
 Site Area (Ha): 2.62
 Search Buffer (m): 1000

Site Details

Bolton-upon-Dearme, ROTHERHAM, South Yorkshire, S63 8JQ



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

Envirocheck[®] Report:

BGS Boreholes Datasheet

Order Details:

Order Number:

60541545_1_1

Customer Reference:

37666/PR

National Grid Reference:

446090, 402390

Slice:

A

Site Area (Ha):

2.62

Borehole Search Buffer (m):

1000

Site Details:

Bolton-upon-Dearne

ROTHERHAM

South Yorkshire

S63 8JQ

Client Details:

Miss K Daddo-Langlois

Eastwood & Partners Ltd

St Andrews House

23 Kingfield Road

Sheffield

S11 9AS

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	1	4	17	40

Introduction

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

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

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

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

Report Version v49.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	BGS Boreholes BGS Reference: Se40se64 Drilled Length (m): 291.39 Borehole Name: Bolton Drainside Bh Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105918/	A13NE (E)	0	5	446170 402407
120	BGS Boreholes BGS Reference: Se40se8 Drilled Length (m): 7.62 Borehole Name: Bolton On Dearne Sewage Works Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105840/	A13SW (SW)	117	5	445910 402201
121	BGS Boreholes BGS Reference: Se40se216 Drilled Length (m): 17 Borehole Name: Barnsley-Doncaster Rd Bh19 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106082/	A13SW (W)	133	5	445860 402360
122	BGS Boreholes BGS Reference: Se40se220 Drilled Length (m): 5.33 Borehole Name: Dearne Valley Highway Bh6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106086/	A13NE (E)	195	5	446400 402500
123	BGS Boreholes BGS Reference: Se40se104 Drilled Length (m): 3 Borehole Name: St Ann'S Terrace Bolton 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105970/	A13SW (SW)	240	5	445770 402180
124	BGS Boreholes BGS Reference: Se40se103 Drilled Length (m): 3 Borehole Name: St Ann'S Terrace Bolton 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105969/	A13SW (SW)	276	5	445760 402130
124	BGS Boreholes BGS Reference: Se40se105 Drilled Length (m): 3 Borehole Name: St Ann'S Terrace Bolton 5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105971/	A12SE (SW)	285	5	445730 402160
124	BGS Boreholes BGS Reference: Se40se102 Drilled Length (m): 3 Borehole Name: St Anns Terrace 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105968/	A12SE (SW)	295	5	445730 402140
125	BGS Boreholes BGS Reference: Se40se106 Drilled Length (m): 3 Borehole Name: St Ann'S Terrace Bolton 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105972/	A12SE (SW)	300	5	445700 402190
126	BGS Boreholes BGS Reference: Se40se101 Drilled Length (m): 3 Borehole Name: St Ann'S Terrace Bolton 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105967/	A12SE (SW)	321	5	445700 402140
126	BGS Boreholes BGS Reference: Se40se67/A Drilled Length (m): 4.3 Borehole Name: Bolton Bridge Bolton Upon Dearne Bh1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105923/	A12SE (SW)	361	5	445678 402099
127	BGS Boreholes BGS Reference: Se40se67/B Drilled Length (m): 14.9 Borehole Name: Bolton Bridge Bolton Upon Dearne Bh2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105924/	A12SE (SW)	355	5	445670 402124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	BGS Boreholes BGS Reference: Se40se213 Drilled Length (m): 26 Borehole Name: Barnsley-Doncaster Rd Bh16 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106079/	A12SE (SW)	367	5	445640 402160
128	BGS Boreholes BGS Reference: Se40se292 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 9 Link to Borehole Scan: Not Available	A12NE (NW)	392	5	445699 402691
128	BGS Boreholes BGS Reference: Se40se291 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 8 Link to Borehole Scan: Not Available	A17SE (NW)	395	5	445726 402730
128	BGS Boreholes BGS Reference: Se40se274 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp1 Link to Borehole Scan: Not Available	A12NE (NW)	401	5	445693 402699
129	BGS Boreholes BGS Reference: Se40se275 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 2 Link to Borehole Scan: Not Available	A17SE (NW)	446	5	445698 402774
129	BGS Boreholes BGS Reference: Se40se276 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 3 Link to Borehole Scan: Not Available	A17SE (NW)	470	5	445708 402817
129	BGS Boreholes BGS Reference: Se40se288 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 5 Link to Borehole Scan: Not Available	A17SE (NW)	488	5	445654 402789
130	BGS Boreholes BGS Reference: Se40se285 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 2 Link to Borehole Scan: Not Available	A17SE (NW)	485	5	445610 402727
130	BGS Boreholes BGS Reference: Se40se283 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 10 Link to Borehole Scan: Not Available	A12NE (NW)	505	5	445579 402713
131	BGS Boreholes BGS Reference: Se40se282 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 9 Link to Borehole Scan: Not Available	A17SE (NW)	496	5	445620 402760
131	BGS Boreholes BGS Reference: Se40se281 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 8 Link to Borehole Scan: Not Available	A17SE (NW)	498	5	445633 402780
131	BGS Boreholes BGS Reference: Se40se287 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 4 Link to Borehole Scan: Not Available	A17SE (NW)	518	5	445636 402813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	BGS Boreholes BGS Reference: Se40se290 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 7 Link to Borehole Scan: Not Available	A17SE (NW)	517	5	445696 402868
132	BGS Boreholes BGS Reference: Se40se280 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 7 Link to Borehole Scan: Not Available	A17SE (NW)	524	5	445649 402835
132	BGS Boreholes BGS Reference: Se40se277 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 4 Link to Borehole Scan: Not Available	A17SE (NW)	538	5	445671 402874
132	BGS Boreholes BGS Reference: Se40se289 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 6 Link to Borehole Scan: Not Available	A17SE (NW)	568	5	445657 402902
133	BGS Boreholes BGS Reference: Se40se199 Drilled Length (m): 7.05 Borehole Name: Furlong Occs Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106065/	A14SW (E)	562	5	446750 402300
134	BGS Boreholes BGS Reference: Se40se286 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 3 Link to Borehole Scan: Not Available	A17SE (NW)	577	5	445606 402867
134	BGS Boreholes BGS Reference: Se40se279 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 6 Link to Borehole Scan: Not Available	A17SE (NW)	587	5	445623 402898
135	BGS Boreholes BGS Reference: Se40se278 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 5 Link to Borehole Scan: Not Available	A17SE (NW)	585	5	445667 402931
135	BGS Boreholes BGS Reference: Se40se284 Drilled Length (m): Not Supplied Borehole Name: Land Off Station Road Bolton Upon Dearne Tp 1 Link to Borehole Scan: Not Available	A17SE (NW)	612	5	445682 402975
136	BGS Boreholes BGS Reference: Se40se48 Drilled Length (m): 79.98 Borehole Name: Lowfield Lane Cresacre Drift No.11 Surface Bh Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105894/	A14NE (E)	619	5	446829 402463
137	BGS Boreholes BGS Reference: Se40se166 Drilled Length (m): 3 Borehole Name: Kendal Drive Dearne Tp 7 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106032/	A12SW (W)	665	5	445320 402360
137	BGS Boreholes BGS Reference: Se40se169 Drilled Length (m): 2 Borehole Name: Kendal Drive Dearne Tp 10 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106035/	A12NW (W)	670	5	445320 402400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	BGS Boreholes BGS Reference: Se40se164 Drilled Length (m): 2 Borehole Name: Kendal Drive Dearne Tp 5 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106030/	A12SW (W)	686	5	445300 402370
137	BGS Boreholes BGS Reference: Se40se163 Drilled Length (m): 2 Borehole Name: Kendal Drive Dearne Tp 4 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106029/	A12SW (W)	716	5	445270 402370
138	BGS Boreholes BGS Reference: Se40se168 Drilled Length (m): 3 Borehole Name: Kendal Drive Dearne Tp 9 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106034/	A12NW (W)	670	5	445330 402450
139	BGS Boreholes BGS Reference: Se40se167 Drilled Length (m): 3 Borehole Name: Kendal Drive Dearne Tp 8 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106033/	A12NW (W)	686	5	445310 402430
139	BGS Boreholes BGS Reference: Se40se165 Drilled Length (m): 3 Borehole Name: Kendal Drive Dearne Tp 6 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106031/	A12NW (W)	721	5	445270 402410
139	BGS Boreholes BGS Reference: Se40se160 Drilled Length (m): 1 Borehole Name: Kendal Drive Dearne Tp 1 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106026/	A12NW (W)	727	5	445270 402440
140	BGS Boreholes BGS Reference: Se40se214 Drilled Length (m): 7 Borehole Name: Barnsley-Doncaster Rd Bh17 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106080/	A8SW (S)	737	5	446050 401560
141	BGS Boreholes BGS Reference: Se40se162 Drilled Length (m): 2 Borehole Name: Kendal Drive Dearne Tp 3 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106028/	A12NW (W)	738	5	445250 402390
141	BGS Boreholes BGS Reference: Se40se161 Drilled Length (m): 3 Borehole Name: Kendal Drive Dearne Tp 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106027/	A12NW (W)	768	5	445220 402390
142	BGS Boreholes BGS Reference: Se40se47/E Drilled Length (m): 1.83 Borehole Name: Swinton And Knottingley Railway Bores Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105893/	A17NE (NW)	790	5	445663 403169
142	BGS Boreholes BGS Reference: Se40se47/D Drilled Length (m): 1.83 Borehole Name: Swinton And Knottingley Railway Bores Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105892/	A17NE (NW)	827	5	445656 403207
143	BGS Boreholes BGS Reference: Se40se30 Drilled Length (m): 4.57 Borehole Name: Dearne Valley 2 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105864/	A7NW (SW)	806	5	445249 401959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	BGS Boreholes BGS Reference: Se40se330 Drilled Length (m): Not Supplied Borehole Name: Thurnscoe/Bolton Trunk Sewer 11 Link to Borehole: Not Available Scan:	A17NE (NW)	807	5	445690 403200
144	BGS Boreholes BGS Reference: Se40se329 Drilled Length (m): Not Supplied Borehole Name: Thurnscoe/Bolton Trunk Sewer 10 Link to Borehole: Not Available Scan:	A17NE (NW)	824	5	445650 403200
145	BGS Boreholes BGS Reference: Se40se200 Drilled Length (m): 7.5 Borehole Name: Furlong Occs Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106066/ Scan:	A14SE (E)	815	5	447020 402360
146	BGS Boreholes BGS Reference: Se40se178 Drilled Length (m): 2.44 Borehole Name: Library Bolton On Dearne Tp 4 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106044/ Scan:	A17SW (NW)	820	5	445270 402800
147	BGS Boreholes BGS Reference: Se40se172 Drilled Length (m): 2.13 Borehole Name: Library Bolton On Dearne 3 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106038/ Scan:	A17SW (NW)	826	5	445250 402770
147	BGS Boreholes BGS Reference: Se40se177 Drilled Length (m): 2.13 Borehole Name: Library Bolton On Dearne Tp 3 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106043/ Scan:	A17SW (NW)	832	5	445240 402760
147	BGS Boreholes BGS Reference: Se40se173 Drilled Length (m): 2.13 Borehole Name: Library Bolton On Dearne 4 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106039/ Scan:	A17SW (NW)	834	5	445250 402790
147	BGS Boreholes BGS Reference: Se40se174 Drilled Length (m): 1.83 Borehole Name: Library Bolton On Dearne 5 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106040/ Scan:	A17SW (NW)	839	5	445240 402780
147	BGS Boreholes BGS Reference: Se40se170 Drilled Length (m): 1.83 Borehole Name: Library Bolton On Dearne 1 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106036/ Scan:	A17SW (NW)	851	5	445220 402760
147	BGS Boreholes BGS Reference: Se40se171 Drilled Length (m): 1.83 Borehole Name: Library Bolton On Dearne 2 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106037/ Scan:	A17SW (NW)	862	5	445220 402790
147	BGS Boreholes BGS Reference: Se40se176 Drilled Length (m): 1.22 Borehole Name: Library Bolton On Dearne Tp 2 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106042/ Scan:	A17SW (NW)	864	5	445210 402770
147	BGS Boreholes BGS Reference: Se40se175 Drilled Length (m): 1.83 Borehole Name: Library Bolton On Dearne Tp 1 Link to Borehole: http://scans.bgs.ac.uk/sobi_scans/boreholes/106041/ Scan:	A17SW (NW)	866	5	445220 402800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	BGS Boreholes BGS Reference: Se40se217 Drilled Length (m): 8.2 Borehole Name: Barnsley-Doncaster Rd Bh20 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/106083/	A19SE (NE)	875	5	446870 403030
149	BGS Boreholes BGS Reference: Se40se47/C Drilled Length (m): 1.22 Borehole Name: Swinton And Knottingley Railway Bores Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/105891/	A17NE (NW)	899	5	445643 403280


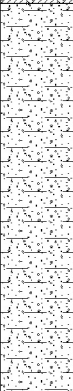

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	August 2014	Quarterly

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

Appendix 3

Trial Pit Logs TP1 to TP15, SA1 to SA4

Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.70m	Logged By MM



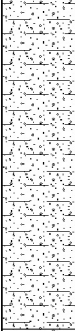

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.50	D					Brown fine to coarse very clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.60			Light brown coarse subangular clayey very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.70			Trialpit Complete at 1.70 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.75m	Logged By MM


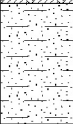
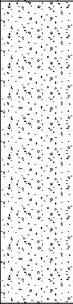


Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.40	D		0.30			Firm brown very sandy friable CLAY
0.45	D		0.50			Light brown fine clayey slightly gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.60			Light brown coarse subangular clayey sandy GRAVEL and COBBLES of moderately strong sandstone
			1.75			Trialpit Complete at 1.75 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.80m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.50	D					Brown fine to coarse clayey SAND
			0.70			Light brown fine to coarse slightly gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.70			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.80			
Trialpit Complete at 1.80 m						

Remarks:

Groundwater: None encountered



Project Name
 Lowfield Road, Bolton on Dearne

Project No.
 37666

Co-ords: -
 Level: -

Date
 08/10/2014

Location: Bolton on Dearne


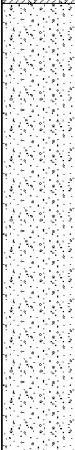

Dimensions: -

Scale
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Client: Gleeson Developments Ltd

Depth
 1.95m

Logged By
 MM


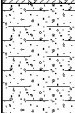
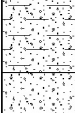
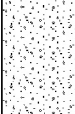
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.50	D					Brown fine to coarse very gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.80			Brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.95			Trialpit Complete at 1.95 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.70m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.50	D					Brown fine to coarse clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone.
0.70	D		0.90			Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
						Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.55			
			1.70			Trialpit Complete at 1.70 m

Remarks:

Groundwater: None encountered



Project Name
 Lowfield Road, Bolton on Dearne

Project No.
 37666

Co-ords: -
 Level: -

Date
 08/10/2014

Location: Bolton on Dearne




Dimensions: -

Scale
 1:25

Client: Gleeson Developments Ltd

Depth
 1.75m

Logged By
 MM




Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.50	D					Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.60			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.75			Trialpit Complete at 1.75 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.80m	Logged By MM


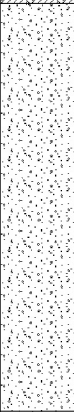

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			1.70			Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.80			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 1.80 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.80m	Logged By MM


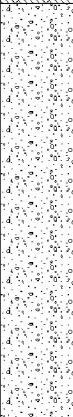

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.60	D					Brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone. Frequent cobbles of sandstone.
			1.65			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 1.80 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: - Depth 1.90m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM


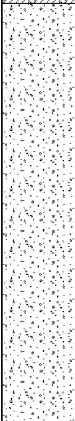

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.35			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.60	D					Light brown fine to coarse gravelly cobbly SAND. Gravel is fine to coarse subangular of sandstone.
			1.75			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.90			Trialpit Complete at 1.90 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.85m	Logged By MM



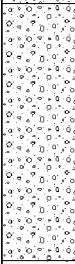
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.60	D					Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone. Rare cobbles of sandstone.
			1.70			Brown sandy gravelly COBBLES of moderately strong sandstone
			1.85			Trialpit Complete at 1.85 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.50m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					Dark brown clayey sandy TOPSOIL with fragments of vegetation
			0.30			Brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone. Frequent cobbles of sandstone.
0.50	D		0.50			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.35			Trialpit Complete at 1.50 m

Remarks:

Groundwater: None encountered



Project Name
 Lowfield Road, Bolton on Dearne

Project No.
 37666

Co-ords: -
 Level: -

Date
 08/10/2014

Location: Bolton on Dearne



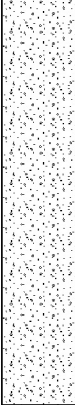

Dimensions: -

Scale
 1:25

Client: Gleeson Developments Ltd

Depth
 1.90m

Logged By
 MM


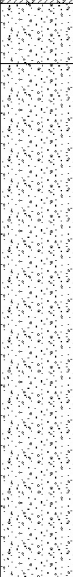
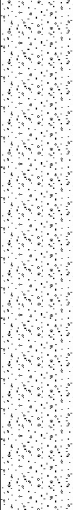

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			TOPSOIL
0.50	D		0.50			Brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.85			Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.90			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 1.90 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 2.35m	Logged By MM




Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			0.50			Brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			2.20			Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			2.35			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 2.35 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.70m	Logged By MM




Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.20			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			1.65 1.70			Brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone. Occasional cobbles of sandstone with depth.
						Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 1.70 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 08/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.80m	Logged By MM



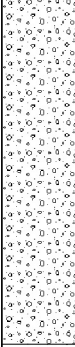
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
0.70	D					Light brown fine to coarse gravelly SAND. Gravel is fine to coarse subangular of sandstone. Becomes cobbly from 1.2 m bgl
			1.70			Light brown coarse subangular very sandy GRAVEL and COBBLES of moderately strong sandstone
			1.80			Trialpit Complete at 1.80 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: - Depth 1.70m	Scale 1:25
Client: Gleeson Developments Ltd			Logged By MM




Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			0.50			Brown fine slightly clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone.
			1.65			Light brown coarse subangular sandy GRAVEL and COBBLES of moderately strong sandstone
						Trialpit Complete at 1.70 m

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.62m	Logged By MM



Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			1.60 1.62			Brown fine slightly clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone.
						Light brown coarse subangular sandy GRAVEL and COBBLES of moderately strong sandstone
Trialpit Complete at 1.62 m						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.54m	Logged By MM


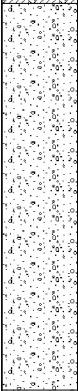
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			Dark brown clayey sandy TOPSOIL with fragments of vegetation
			1.54			Brown fine slightly clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone. occasional cobbles of sandstone.
						----- Trialpit Complete at 1.54 m
1 2 3 4						

Remarks:

Groundwater: None encountered



Project Name Lowfield Road, Bolton on Dearne	Project No. 37666	Co-ords: - Level: -	Date 09/10/2014
Location: Bolton on Dearne		Dimensions: -	Scale 1:25
Client: Gleeson Developments Ltd		Depth 1.58m	Logged By MM

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30						Dark brown clayey sandy TOPSOIL with fragments of vegetation
1.58						Brown fine gravelly SAND. Gravel is fine to coarse subangular of sandstone. Frequent cobbles of sandstone.
						Trialpit Complete at 1.58 m

Remarks:

Groundwater: None encountered



Appendix 4

Infiltration Test Results

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA1 test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1340 mm** Average water depth: **180 mm**
 Start time = **6 min**

Change in water depth: **360 mm**

Final parameters

Depth to water = **1700 mm** Time interval: **90 min**
 End time = **96 min**

Effective Storage Volume of Water in the Trial Pit = **0.3861 m³**
 75% Effective Depth = **1370 mm** from ground level
 25% Effective Depth = **1590 mm** from ground level
 Time at 75% Effective Depth = **9 minutes**
 Time at 25% Effective Depth = **56 minutes**

V_{p75-25} = **0.19 m³**

a_{p50} = **1.95 m²**

t_{p75-25} = **2820 sec**

f = **3.5E-05 m/sec**

Average Soakaway Rate = **5.9E-05 m³/sec**
 Average soakaway area = **1.60 m²** (sides + base)

BR365 Soil Infiltration Rate = 3.5E-05 m/sec
Average Infiltration Rate = 3.7E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

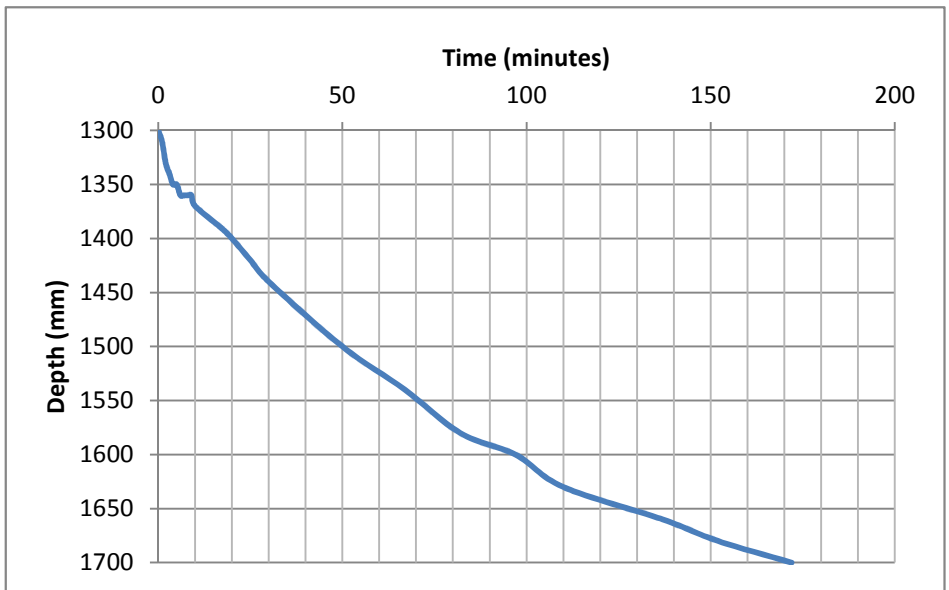
Test No. SA1 test 2

Test Pit Dimensions

Length = **1350 mm** Plan area = **0.8775 m²**
 Width = **650 mm**
 Depth = **1700 mm** (Total depth)

Approximate time to discharge water into the hole: **20 Seconds**
 Depth to water after completion of pumping: **1300 mm**

Time (min)	Depth (mm)
0	1300
1	1310
2	1330
3	1340
4	1350
5	1350
6	1360
7	1360
8	1360
9	1360
10	1370
17	1390
20	1400
25	1420
30	1440
50	1500
67	1540
82	1580
97	1600
110	1630
137	1660
152	1680
172	1700



PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA1 test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where:

V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1370 mm** Average water depth: **165 mm**
 Start time = **10 min**

Change in water depth: **330 mm**

Final parameters

Depth to water = **1700 mm** Time interval: **162 min**
 End time = **172 min**

Effective Storage Volume of Water in the Trial Pit = **0.351 m³**
 75% Effective Depth = **1400 mm** from ground level
 25% Effective Depth = **1600 mm** from ground level
 Time at 75% Effective Depth = **20 minutes**
 Time at 25% Effective Depth = **97 minutes**

V_{p75-25} = **0.18 m³**

a_{p50} = **1.88 m²**

t_{p75-25} = **4620 sec**

f = **2.0E-05 m/sec**

Average Soakaway Rate = **3.0E-05 m³/sec**
 Average soakaway area = **1.54 m²** (sides + base)

BR365 Soil Infiltration Rate = 2.0E-05 m/sec
Average Infiltration Rate = 1.9E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA1 test 3

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1300 mm** Average water depth: **320 mm**
 Start time = **4 min**

Change in water depth: **160 mm**

Final parameters

Depth to water = **1460 mm** Time interval: **56 min**
 End time = **60 min**

Effective Storage Volume of Water in the Trial Pit = **0.36855 m³**
 75% Effective Depth = **1385 mm** from ground level
 25% Effective Depth = **1595 mm** from ground level
 Time at 75% Effective Depth = **35 minutes**
 Time at 25% Effective Depth = **N/A minutes** Test terminated before reaching 25% e.d.

V_{p75-25} = **0.18 m³**

a_{p50} = **1.48 m²**

t_{p75-25} = **N/A sec**

f = **N/A m/sec**

Average Soakaway Rate = **4.2E-05 m³/sec**
 Average soakaway area = **2.16 m² (sides + base)**

BR365 Soil Infiltration Rate = N/A m/sec
Average Infiltration Rate = 1.9E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA2 test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1250 mm** Average water depth: **185 mm**
 Start time = **5 min**

Change in water depth: **370 mm**

Final parameters

Depth to water = **1620 mm** Time interval: **189 min**
 End time = **194 min**

Effective Storage Volume of Water in the Trial Pit = **0.408 m³**
 75% Effective Depth = **1320 mm** from ground level
 25% Effective Depth = **1520 mm** from ground level
 Time at 75% Effective Depth = **20 minutes**
 Time at 25% Effective Depth = **116 minutes**

V_{p75-25} = **0.20 m³**

a_{p50} = **1.79 m²**

t_{p75-25} = **5760 sec**

f = **2.0E-05 m/sec**

Average Soakaway Rate = **3.3E-05 m³/sec**
 Average soakaway area = **1.87 m²** (sides + base)

BR365 Soil Infiltration Rate = 2.0E-05 m/sec
Average Infiltration Rate = 1.8E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA2 test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where:

- V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;
- a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area
- t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1280 mm** Average water depth: **230 mm**
 Start time = **10 min**

Change in water depth: **220 mm**

Final parameters

Depth to water = **1500 mm** Time interval: **131 min**
 End time = **141 min**

Effective Storage Volume of Water in the Trial Pit = **0.3876 m³**
 75% Effective Depth = **1335 mm** from ground level
 25% Effective Depth = **1525 mm** from ground level
 Time at 75% Effective Depth = **40 minutes**
 Time at 25% Effective Depth = **N/A minutes** Test terminated before reaching 25% e.d.

V_{p75-25} = **0.19 m³**

a_{p50} = **1.46 m²**

t_{p75-25} = **N/A sec**

f = **N/A m/sec**

Average Soakaway Rate = **2.9E-05 m³/sec**
 Average soakaway area = **2.08 m²** (sides + base)

BR365 Soil Infiltration Rate = N/A m/sec
Average Infiltration Rate = 1.4E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

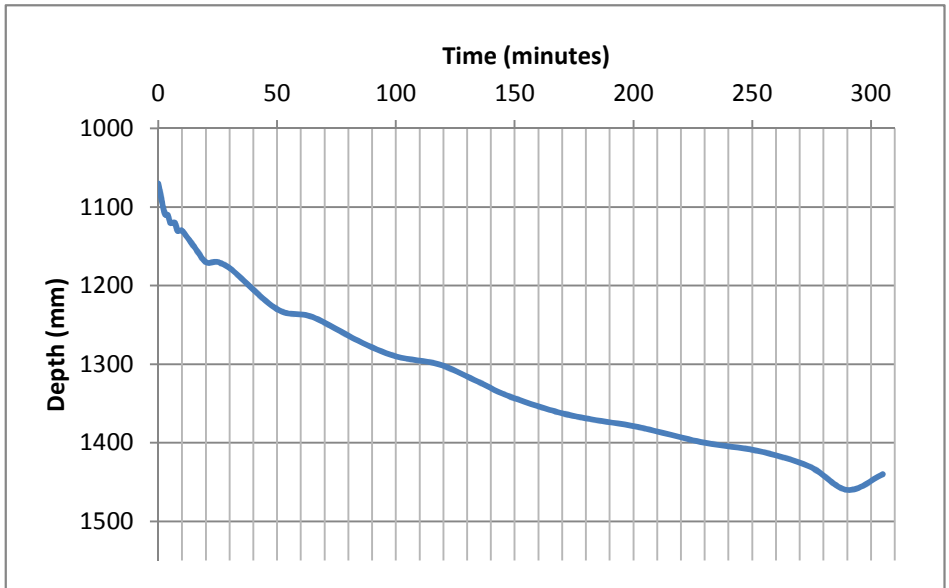
Test No. SA3 test 1

Test Pit Dimensions

Length = **1650 mm** Plan area = **0.99 m²**
 Width = **600 mm**
 Depth = **1540 mm** (Total depth)

Approximate time to discharge water into the hole: **30 Seconds**
 Depth to water after completion of pumping: **1070 mm**

Time (min)	Depth (mm)
0	1070
2	1100
3	1110
4	1110
5	1120
6	1120
7	1120
8	1130
9	1130
10	1130
15	1150
20	1170
25	1170
31	1180
50	1230
65	1240
84	1270
100	1290
118	1300
133	1320
147	1340
167	1360
182	1370
202	1380
230	1400
252	1410
274	1430
290	1460
305	1440



Collapse of pit sides between 290 and 305 minutes.

Test terminated due to time constraints

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA3 test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where:

- V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;
- a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area
- t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1130 mm** Average water depth: **245 mm**
 Start time = **8 min**

Change in water depth: **330 mm**

Final parameters

Depth to water = **1460 mm** Time interval: **282 min**
 End time = **290 min**

Effective Storage Volume of Water in the Trial Pit = **0.4653 m³**
 75% Effective Depth = **1188 mm** from ground level
 25% Effective Depth = **1423 mm** from ground level
 Time at 75% Effective Depth = **34 minutes**
 Time at 25% Effective Depth = **270 minutes**

V_{p75-25} = **0.23 m³**

a_{p50} = **1.63 m²**

t_{p75-25} = **14160 sec**

f = **1.0E-05 m/sec**

Average Soakaway Rate = **1.9E-05 m³/sec**
 Average soakaway area = **2.09 m²** (sides + base)

BR365 Soil Infiltration Rate = 1.0E-05 m/sec
Average Infiltration Rate = 9.2E-06 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA4 test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1250 mm** Average water depth: **165 mm**
 Start time = **5 min**

Change in water depth: **330 mm**

Final parameters

Depth to water = **1580 mm** Time interval: **74 min**
 End time = **79 min**

Effective Storage Volume of Water in the Trial Pit = **0.4284 m³**
 75% Effective Depth = **1265 mm** from ground level
 25% Effective Depth = **1475 mm** from ground level
 Time at 75% Effective Depth = **7 minutes**
 Time at 25% Effective Depth = **44 minutes**

V_{p75-25} = **0.21 m³**

a_{p50} = **1.67 m²**

t_{p75-25} = **2250 sec**

f = **5.7E-05 m/sec**

Average Soakaway Rate = **7.6E-05 m³/sec**
 Average soakaway area = **1.78 m²** (sides + base)

BR365 Soil Infiltration Rate = 5.7E-05 m/sec
Average Infiltration Rate = 4.3E-05 m/sec

PROJECT:	Lowfield Road Phase 3, Bolton on Dearne	Job No. 37666	Date 09/10/2014
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared LED	Checked LEM

Test No. SA4 test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1170 mm** Average water depth: **310 mm**
 Start time = **7 min**

Change in water depth: **200 mm**

Final parameters

Depth to water = **1370 mm** Time interval: **103 min**
 End time = **110 min**

Effective Storage Volume of Water in the Trial Pit = **0.4488 m³**
 75% Effective Depth = **1250 mm** from ground level
 25% Effective Depth = **1470 mm** from ground level
 Time at 75% Effective Depth = **35 minutes**
 Time at 25% Effective Depth = **N/A minutes** Test terminated before reaching 25% e.d.

V_{p75-25} = **0.22 m³**

a_{p50} = **1.38 m²**

t_{p75-25} = **N/A sec**

f = **N/A m/sec**

Average Soakaway Rate = **3.3E-05 m³/sec**
 Average soakaway area = **2.45 m²** (sides + base)

BR365 Soil Infiltration Rate = N/A m/sec
Average Infiltration Rate = 1.3E-05 m/sec

Appendix 5

Chemical Testing Results, Chemtech Report 53074(1)
Table of Assessment Values



ANALYTICAL TEST REPORT

Contract no: 53074(1)
Contract name: Bolton on Dearne Phase 3
Client reference: 37666
Clients name: Eastwood & Partners Limited
Clients address: St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

Samples received: 14 October 2014

Analysis started: 14 October 2014

Analysis completed 30 October 2014

Report issued: 30 October 2014

This is a supplementary report to report number 53074 issued 20 October 2014.

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:

Karan Campbell
Director

John Campbell
Director

Dave Bowerbank
Customer Services Co-ordinator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
53074-1	TP 2	0.10	Loam	-	-	11.6
53074-2	TP 3	0.10	Loam	-	-	11.6
53074-3	TP 3	0.50	Sand with Stones	-	-	9.6
53074-4	TP 4	0.10	Sandy Loam	-	-	10.9
53074-5	TP 6	0.10	Loam	-	-	8.4
53074-6	TP 7	0.10	Loam	-	-	8.9
53074-7	TP 7	0.50	Loam Sand	-	-	9.4
53074-8	TP 8	0.10	Loam	-	-	9.2
53074-9	TP 10	0.60	Sand with Stones	-	-	9.3
53074-10	TP 11	0.10	Loam	-	-	10.0
53074-11	TP 12	0.10	Loam	-	-	10.6
53074-12	TP 13	0.10	Loam	-	-	14.1
53074-13	TP 15	0.10	Loam	-	-	14.6

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SOILS

Lab number			53074-1	53074-2	53074-3	53074-4	53074-5	53074-6
Sample id			TP 2	TP 3	TP 3	TP 4	TP 6	TP 7
Depth (m)			0.10	0.10	0.50	0.10	0.10	0.10
Date sampled			08/10/2014	08/10/2014	08/10/2014	08/10/2014	08/10/2014	08/10/2014
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	11	11	5.5	11	9.2	9.8
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.3	<0.2	0.3	0.2	0.3
Chromium (total)	CE127 ^M	mg/kg Cr	74	79	71	75	78	56
Chromium (VI)	CE050	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	21	20	8.2	20	17	18
Lead (total)	CE127 ^M	mg/kg Pb	46	41	18	49	43	43
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	18	17	21	15	16	16
Selenium (total)	CE127 ^M	mg/kg Se	0.8	0.9	0.6	0.8	0.8	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	71	61	34	72	68	70
pH	CE004 ^M	units	7.1	7.1	7.4	7.0	6.9	6.9
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	-	-	<10	-	-	-
Sulphate (total)	CE062 ^M	mg/kg SO ₄	-	-	324	-	-	-
Sulphur (total)	CE127	% w/w S	-	-	<0.01	-	-	-
PAH								
Naphthalene	CE087	mg/kg	0.07	0.05	<0.01	0.08	0.05	0.08
Acenaphthylene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	CE087	mg/kg	0.16	0.11	<0.01	0.12	0.10	0.12
Anthracene	CE087	mg/kg	0.03	0.02	<0.01	0.02	0.11	0.02
Fluoranthene	CE087	mg/kg	0.25	0.17	<0.01	0.22	0.13	0.18
Pyrene	CE087	mg/kg	0.23	0.15	<0.01	0.19	0.11	0.16
Benzo(a)anthracene	CE087	mg/kg	0.15	0.10	0.01	0.12	0.09	0.11
Chrysene	CE087	mg/kg	0.19	0.12	<0.01	0.14	0.09	0.12
Benzo(b)fluoranthene	CE087	mg/kg	0.23	0.17	<0.01	0.19	0.13	0.19
Benzo(k)fluoranthene	CE087	mg/kg	0.09	0.06	<0.01	0.06	0.05	0.07
Benzo(a)pyrene	CE087	mg/kg	0.14	0.10	<0.01	0.11	0.07	0.12
Indeno(123cd)pyrene	CE087	mg/kg	0.12	0.08	<0.01	0.10	0.06	0.09
Dibenz(ah)anthracene	CE087	mg/kg	0.02	0.02	<0.01	0.01	0.02	0.02
Benzo(ghi)perylene	CE087	mg/kg	0.10	0.08	<0.01	0.09	0.04	0.07
PAH (total of USEPA 16)	CE087	mg/kg	1.78	1.23	<0.16	1.46	1.05	1.33

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SOILS

Lab number			53074-7	53074-8	53074-9	53074-10	53074-11	53074-12
Sample id			TP 7	TP 8	TP 10	TP 11	TP 12	TP 13
Depth (m)			0.50	0.10	0.60	0.10	0.10	0.10
Date sampled			08/10/2014	08/10/2014	08/10/2014	08/10/2014	08/10/2014	08/10/2014
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	6.3	9.3	2.3	9.3	11	13
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.3	<0.2	0.3	0.3	0.4
Chromium (total)	CE127 ^M	mg/kg Cr	61	72	67	73	71	73
Chromium (VI)	CE050	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	9.9	19	4.2	19	26	29
Lead (total)	CE127 ^M	mg/kg Pb	13	51	8.2	39	50	56
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	28	16	12	17	17	18
Selenium (total)	CE127 ^M	mg/kg Se	0.9	0.8	0.6	0.7	0.8	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	47	80	20	61	85	106
pH	CE004 ^M	units	7.2	7.2	7.4	7.4	7.3	7.3
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	<10	-	<10	-	-	-
Sulphate (total)	CE062 ^M	mg/kg SO ₄	169	-	73	-	-	-
Sulphur (total)	CE127	% w/w S	<0.01	-	<0.01	-	-	-
PAH								
Naphthalene	CE087	mg/kg	<0.01	0.07	<0.01	0.06	0.07	0.09
Acenaphthylene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	CE087	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	CE087	mg/kg	0.01	0.12	<0.01	0.11	0.12	0.11
Anthracene	CE087	mg/kg	<0.01	0.03	<0.01	0.02	0.01	0.02
Fluoranthene	CE087	mg/kg	0.01	0.18	<0.01	0.19	0.16	0.17
Pyrene	CE087	mg/kg	<0.01	0.17	<0.01	0.16	0.15	0.13
Benzo(a)anthracene	CE087	mg/kg	0.01	0.11	<0.01	0.10	0.10	0.09
Chrysene	CE087	mg/kg	0.02	0.11	<0.01	0.11	0.13	0.09
Benzo(b)fluoranthene	CE087	mg/kg	0.02	0.20	<0.01	0.17	0.17	0.16
Benzo(k)fluoranthene	CE087	mg/kg	<0.01	0.07	<0.01	0.07	0.06	0.06
Benzo(a)pyrene	CE087	mg/kg	0.01	0.12	<0.01	0.10	0.11	0.10
Indeno(123cd)pyrene	CE087	mg/kg	<0.01	0.09	<0.01	0.08	0.08	0.08
Dibenz(ah)anthracene	CE087	mg/kg	<0.01	0.02	<0.01	0.02	0.01	0.02
Benzo(ghi)perylene	CE087	mg/kg	<0.01	0.07	<0.01	0.06	0.06	0.05
PAH (total of USEPA 16)	CE087	mg/kg	<0.16	1.37	<0.16	1.25	1.24	1.16

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SOILS

Lab number			53074-13
Sample id			TP 15
Depth (m)			0.10
Date sampled			08/10/2014
Test	Method	Units	
Arsenic (total)	CE127 ^M	mg/kg As	12
Cadmium (total)	CE127 ^M	mg/kg Cd	0.4
Chromium (total)	CE127 ^M	mg/kg Cr	73
Chromium (VI)	CE050	mg/kg CrVI	<1
Copper (total)	CE127 ^M	mg/kg Cu	26
Lead (total)	CE127 ^M	mg/kg Pb	68
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	17
Selenium (total)	CE127 ^M	mg/kg Se	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	106
pH	CE004 ^M	units	7.2
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	-
Sulphate (total)	CE062 ^M	mg/kg SO ₄	-
Sulphur (total)	CE127	% w/w S	-
PAH			
Naphthalene	CE087	mg/kg	0.07
Acenaphthylene	CE087	mg/kg	<0.01
Acenaphthene	CE087	mg/kg	<0.01
Fluorene	CE087	mg/kg	<0.01
Phenanthrene	CE087	mg/kg	0.11
Anthracene	CE087	mg/kg	0.01
Fluoranthene	CE087	mg/kg	0.18
Pyrene	CE087	mg/kg	0.15
Benzo(a)anthracene	CE087	mg/kg	0.11
Chrysene	CE087	mg/kg	0.13
Benzo(b)fluoranthene	CE087	mg/kg	0.18
Benzo(k)fluoranthene	CE087	mg/kg	0.07
Benzo(a)pyrene	CE087	mg/kg	0.11
Indeno(123cd)pyrene	CE087	mg/kg	0.09
Dibenz(ah)anthracene	CE087	mg/kg	0.02
Benzo(ghi)perylene	CE087	mg/kg	0.07
PAH (total of USEPA 16)	CE087	mg/kg	1.29

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE050	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	Wet	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	100	mg/kg SO ₄
CE127	Sulphur (total)	Acid extraction, ICP-MS	Dry		0.01	% w/w S
CE087	PAH (speciated)	Solvent extraction, GC-MS	Wet		0.01	mg/kg

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

- N No (not deviating sample)
- Y Yes (deviating sample)
- A Sampling date not provided
- B Sampling time not provided (waters only)
- C Sample exceeded holding time(s)
- D Sample not received in appropriate containers
- E Headspace present in sample container
- F Sample not chemically fixed (where appropriate)
- G Sample not cooled
- H Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
53074-1	TP 2	0.10	N	
53074-2	TP 3	0.10	N	
53074-3	TP 3	0.50	N	
53074-4	TP 4	0.10	N	
53074-5	TP 6	0.10	N	
53074-6	TP 7	0.10	N	
53074-7	TP 7	0.50	N	
53074-8	TP 8	0.10	N	
53074-9	TP 10	0.60	N	
53074-10	TP 11	0.10	N	
53074-11	TP 12	0.10	N	
53074-12	TP 13	0.10	N	
53074-13	TP 15	0.10	N	

Inorganics	Intended Land Use
	Residential (mg/kg)
Arsenic	32
Cadmium	10
Chromium (III)	627
Chromium (VI)	4.3
Lead	200
Mercury	1
Nickel	130
Selenium	350
Copper	80 ^{*1} (200 above pH7)
Zinc	200 ^{*1} (300 above pH7)

Notes:

*1 - These are pH dependent; the most conservative value is given in this case.


The assessment values for the first seven metals or metalloids (arsenic to selenium) are the Soil Guideline Values (SGVs) derived by DEFRA and Environment Agency using the 'Contaminated Land Exposure Assessment' model. The assessment concentrations for arsenic, cadmium, nickel, mercury and selenium are outlined in the Environment Agency's Science Report series SC050021. These are based on a sandy loam soil and 6% soil organic matter. The assessment concentrations for the remaining metals/metalloids are described in the Contaminated Land Report Series (CLR), which have now been withdrawn.

The SGV threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the SGV.

The assessment values for the metals copper and zinc are levels at which plant growth is thought to be affected. The assessment values for copper and zinc are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the 'The Code of Good Agricultural Practice for the Protection of Soil', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 'Concrete in Aggressive Ground'.


Prepared	DES	Checked	CAT	Date	09.11.11	Job No	37666
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 Eastwood & Partners <small>CONSULTING ENGINEERS</small> St Andrew's House 23 Kingfield Road Sheffield S11 9AS Tel: (0114) 2554554 Fax: (0114) 2554330	GENERIC ASSESSMENT CRITERIA - RESIDENTIAL
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Organic Compounds	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	1.5	3.7	8.7
Acenaphthene	210	480	1000
Acenaphthylene	170	400	850
Fluorene	160	380	780
Phenanthrene	92	200	380
Anthracene	2,300	4,900	9,200
Fluoranthene	260	460	670
Pyrene	560	1,000	1,600
Benzo(a)anthracene	3.1	4.7	5.9
Chrysene	6.0	8.0	9.3
Benzo(b)fluoranthene	5.6	6.5	7.0
Benzo(k)fluoranthene	8.5	9.6	10
Benzo(a)pyrene	0.83	0.94	1.0
Dibenz(a,h)anthracene	0.76	0.86	0.90
Indeno(1,2,3-cd)pyrene	3.2	3.9	4.2
Benzo(g,h,i)perylene	44	46	47

The assessment criteria for chromium VI and the sixteen polycyclic aromatic hydrocarbon (PAH) species covered under the USEPA test have been taken from Nathanail, C. P., McCaffrey, C., Ashmore, M. H., Cheng, Y. Y., Gillett, A., Ogden, R. & Scott, D., 2009 'The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment 2nd Edition', Land Quality Press, Nottingham. These are also all based on a sandy loam soil. The assessment criteria for chromium III is taken from the March 2011 erratum to this publication.

Prepared	DES	Checked	CAT	Date	09.11.11	Job No	37666
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 Eastwood & Partners <small>CONSULTING ENGINEERS</small> St Andrew's House 23 Kingfield Road Sheffield S11 9AS Tel: (0114) 2554554 Fax: (0114) 2554330	GENERIC ASSESSMENT CRITERIA - RESIDENTIAL
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