Eastwood & Partners
CONSULTING ENGINEERS

PHASE 1 AND 2 GEOTECHNICAL AND GEO-ENVIRONMENTAL SITE INVESTIGATION

LAND AT KING STREET, ELSECAR

FOR

D J ATKINSON CONSTRUCTION LIMITED



39825-004 **5 July 2016**

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1.0 EXECUTIVE SUMMARY

1. Eastwood & Partners were instructed by D J Atkinson Construction Ltd to carry out an intrusive investigation on approximately 0.95 hectares of lands located to the south of King Street in Elsecar, centred around Ordnance Survey national grid reference 437960 400340. The site is currently undeveloped and predominantly covered by scrub vegetation.

2. Historical maps show that the only development to have occupied the site is a school , which was constructed in the early 1900s and was demolished in the 1990s. Some filling of the ground appears to have been undertaken across the southern part of the site in around 1900 in conjunction with the construction of an adjacent railway line. Recently, a park and ride car park and associated access road was constructed across and to the south of the site.

3. The site does not lie within a flood plain.

4. The geology below the site is shown to be predominantly mudstone of the Middle Coal Measures. Sandstone is indicated to be present in the north and southern extremes of the site, although this was not encountered within any of the trial pits.

5. The hydro-geology at the site is classified as a Secondary A Aquifer. The site is not within a groundwater source protection zone.

6. The Kent's Thick Coal is conjectured to outcrop across the northern half of the main site. This is expected to dip towards the northeast. The seam is described as being a 'worthless mass of coal streaks in black shale' by the geological memoirs, and is therefore unlikely to have been worked. A thin coal, unnamed is also conjectured to outcrop in the south of the site, which is also unlikely to have been worked. Neither coal was encountered within the trial pit investigation and no evidence of surface extraction was encountered.

7. The shallowest mine workings are expected to be within the Barnsley Coal, which is anticipated to be at a depth of around 40 to 60 m bgl. At this depth, these workings are not expected to influence developments at surface on the site.

8. A trial pit investigation has been carried out. On the main site, east of the access road, between 1.5 and 2 m of mainly granular made ground was encountered in the northern half, which included demolition rubble and reworked clay. Foundations, walls and floors of the previous school buildings were encountered. The made ground in the southern half of the main site was between 0.5 m and 1.3 m thick. The underlying natural ground comprises stiff sandy clay, becoming mudstone at shallow depth.

9. Two trial pits were excavated in the smaller, south western area. Both trial pits encountered made ground of reworked clay, mudstone and sandstone (colliery spoil) to depths in excess of 4.2 m.

10. On the main site, strip or trench fill footings are considered suitable, which will need to be constructed within the natural ground. A minimum footing depth of 900 mm below existing or proposed ground level, whichever is the lower, will be required. Footings will need to be deeper near trees and heave precautions will be required where footing depth due to trees is greater than 1.5m. Retaining structures may also be required due to the slope of the ground.

11. In the south west, piled foundations are considered to be the most cost effective solution for all plots where deep made ground is present.

12. A pre-cast concrete ground floor with a 250 mm deep ventilated void will be required for all plots.

13. No radon precautions are required for new properties constructed on this site.

14. The former spoil heaps to the west of the site are classed as a landfill, which received inert, industrial and commercial wastes after 1972. It is recommended that Amber 1 gas precautions are allowed for in all plots in the west of the site. However, membranes are not considered necessary for plots in the east of the site due to the provision of ventilated sub-floor voids.

15. Soakaways will not be suitable on this site. A piped discharge will be required.

16. The existing made ground in the east of the site contains elevated PAHs. A 600 mm capping layer is proposed across this areas within all gardens and areas of soft landscaping where the made ground will remain.

17. The colliery spoil in the west of the site does not contain any elevated concentrations, and therefore no remediation is required, other than the provision of a 150mm thick topsoil growing medium.

18. Class DS-2 AC-2 sulphate precautions are required where foundations or other sub-surface concrete structures will be in contact with the general made ground. Class DS-1 AC-3z precautions are required for subsurface concrete which is in contact with the colliery spoil in the western area of the site. Class DS-1 AC-1 concrete will be suitable where only natural ground is present around sub-surface concrete.

19. The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies such as the Local Authority and the NHBC (if applicable).

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 and Partners (Consulting Engineers) Ltd for, and on the behalf of, D J Atkinson Construction Limited. 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 site 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 additional information and incorporate with previous data enabling refinement and subsequent further testing of the conceptual model;
- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made for the proposed residential properties;
- 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.

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 incidents and waste facilities. It compiles information obtained from amongst others, the Environment Agency and the Local Authority.
- Coal Authority Mining Report.
- Geological Maps and associated Geological Memoirs.
- A site walkover

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.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with two to four storey houses or apartments of conventional construction and that existing ground levels will not alter significantly. If this is not the case, further advice may be needed.

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 and gas levels vary due to seasonal or other effects, and may at times differ from those measured during the investigation.

This report considers the ground and groundwater and does not cover any buildings or their fabric. Generally, testing has only been carried out for contaminants identified as potentially present with no assessment made of biological contamination. Risks to ecological receptors, such as bats, have not been considered.

3.0 THE SITE

3.1 Description

The site has an area of approximately 0.95 hectares and is located to the south of King Street in Elsecar. It is irregularly shaped on plan, comprising two areas of land to either side of the access road into the Elsecar Railway station park and ride. The site is centred around Ordnance Survey national grid reference 437960 400340.

The site is currently undeveloped, and comprises areas of scrub grass. The area to the east of the park and ride access slopes down towards the south, with a change in level of around 7 m between the top and bottom of the site. A retaining wall of around 2 to 3 m height is also present around the northern boundary with King Street, with the road level being above that of the site.

The area to the west of the station road is currently overgrown with scrub grass and bushes. A sewer runs across this part of the site, which appears to take surface water from the road and associated car park and discharges into a culvert just west of the site. A wet well is also present within the system which is located in the east of the site.

Various mature trees are present along the edge of the station road.

The surrounding land is mainly residential to the west and north of the site, whist commercial properties are present to the west along King Street. The Park and Ride car park is located to the south, with Elsecar railway station beyond this. A recreation ground is present to the west of the site on the west side of a small valley.

A site plan showing the main features of the site is included in Appendix 1.

3.2 History

Historical Ordnance Survey 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 map reviewed, dated 1855, indicates the site to be undeveloped. The site at this time appears to be agricultural in use. By 1903, an embankment is indicated along the western edge of the site, which may indicate that levels have been raised on the site. No other development is

indicated, however, and the edge of the embankment remains in a constant position on all subsequent maps.

Between 1907 and 1930, a school was built in the east of the site. This comprised a single building. Hardstanding is indicated around the perimeter of the building. A bowling green and tennis court is also indicate in the western boundary of the eastern part of the site.

By 1956, an additional building had been added to the south of the main building.

No further changes in the site layout are indicated by the maps until between 1989 and 1993, when the school was demolished. The site remains undeveloped from this time. In recent years, the park and ride car park and associated road was constructed along the north western edge of the site in place of the tennis court and bowling green and dividing the site into two separate areas.

3.2.2 The Surrounding Area

The earliest maps show the area around the site to be partially developed with residential properties, and partly with industry. The remaining areas are agricultural. An iron works (Milton Ironworks) is indicated to be around 350 m west of the site, with spoil heaps extending away from the works to within about 200 m south west of the development site. A number of old coal shafts and air shafts are also indicated about the area, indicating underground workings were being undertaken at this time.

By 1892, the foundry spoil heaps had extended to within about 50 m of the site. A second, smaller foundry is also shown 130 m to the south east of the site by this time. By 1903, a railway line had been constructed to the south of the site, and this is possibly the reason for the apparent raising of levels across the south west of the site. New embankments are also indicated on the southern side of the railway. Elsecar Station was also built to the south east of the site.

By 1930, terraced housing had been constructed around the site, along with shops and a cinema. Allotment gardens are shown to be located amongst the houses. A small gravel pit is indicated 90 m south west of the site. Shortly after this time, Milton Ironworks appears to have closed and the buildings removed. The spoil heaps remained, however.

Little further development has been undertaken in the immediate vicinity of the site after this time. The spoil heaps were landscaped to become a recreation ground by the 1960s. Additional housing was also constructed around this time around the village. The foundry to the south east of the site is no longer labelled by 1993, although the buildings remain to the present day.

No other heavy industry is shown to have been present within 100 m of the site at any time in the past.

3.3 Geology

The geological map for the area, Sheet SE 30 SE (1:10,000 scale) indicate the site to be underlain by strata of the Middle Coal Measures. Undifferentiated mudstones are indicated across the majority of the site, with sandstone indicated in the very north and very southern parts of the site. The map indicates the strata to dip towards the north east at an angle of 5º.

No alluvial or other recent deposits are indicated to be present on the site, although the historical maps do indicate some change in level to have taken place around 100 years ago. Therefore, made ground may be present in parts of the site.

No faults or other lines of weakness are shown to cross the site, although the Elsecar fault is located around 180 m north east of the site and the Hoyland Fault is around 260 m south west.

3.4 Hydrogeology

3.4.1 Groundwater Vulnerability

Under the Environment Agency's aquifer designations, the solid geology below the site is classified as a Secondary A Aquifer. This is defined as 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.

Information within the Envirocheck Report also states that the site does not lie within a groundwater Source Protection Zone.

3.4.2 Groundwater Abstractions

There are no groundwater abstractions within 250 m of the site.

3.5 Hydrology

The Envirocheck Report records the nearest surface water feature to be located approximately 12 m south west of the site. This is a surface water culvert which runs from below the adjacent recreation ground, before turning south and heading below the railway line. The watercourse runs within an open channel for a short distance past the south western corner of the site.

3.6 Mining

The site is located above Col Measures strata, and there are many seams of coal present within the ground below the site.

The shallowest named seam expected is the Kent's Thick Coal. This is conjectured to outcrop across the northern part of the site, dipping towards the north east. Therefore only the northern third of the site will be affected by the presence of the seam. The Kent's Thick Coal is recorded as being between 2.5 feet and 3 feet (0.75 to 0.9 m) thick. However, the geological memoirs for Barnsley state that the seam is a 'worthless mass of coal streaks in black shale' in the area south of Barnsley, although the seam is commonly worked to the north of Barnsley. The seam is therefore not expected to have been worked below the site. Should any workings been attempted, these are likely to be via surface extraction, given the very shallow depth at which the seam will lie.

A thin seam of coal is also conjectured to outcrop across south western end of the site. This may be up to about 300 mm thick, but is not expected to have been worked in the past.

The next shallowest seam of coal expected is the Barnsley Rider Coal, which may be up to around 600 mm thick in this area, but contains numerous dirt partings. This seam is therefore unlikely to have been of economic interest in the past, and is likely to be at a depth of around 30 m bgl. Any workings that are present within this seam are unlikely to affect developments at surface.

The next worked seam of coal is expected to be the Barnsley coal. Several historical shafts shown on the geological maps to the south of the site indicate this seam to lie at a depth of around 40 m and therefore the Barnsley Coal is expected to be at least this deep below the site. The Barnsley Coal is a major seam within the former south Yorkshire coalfield, and as such, the seam is widely worked. As the seam was noted in the local shafts, it can be assumed that extraction has been undertaken below the site. The seam has an average thickness of around 2.4 m. Therefore there is expected to be a sufficient thickness of competent ground between the seam and the underside of foundations for the proposed development, and remedial works such as drilling and grouting are not expected to be required.

A Coal Authority mining report has been obtained for the site. This states that the site is within the zone of likely influence of recorded past workings in 11 seams of coal, at depths of between 60 m and 400 m. The last date of working is given as 1979. The shallowest of these recorded workings may within the Barnsley Coal but could also be in a deeper seam.

In addition, the site is within an area where the Coal Authority believe there to be coal at, or close to the surface. This is expected to refer to the Kent's Thick coal and the unnamed thin seam

conjectured to outcrop in the south west of the site. As discussed above, neither of these seams are expected to have been worked in the past.

The site is not within an area where underground or opencast workings are currently being undertaken or are currently proposed. There are no recorded mine entries within 20 m of the site. No records of any mine gas emission requiring action by the Coal Authority are present, and no claims for coal mining related subsidence have been made on the site.

Based on the above information, we consider that the site is unlikely to be affected by historical coal mining at shallow depth. The Kent's Thick Coal may outcrop in the north of the site, but this is not a widely worked seam. Any extraction that has been undertaken is likely to be via surface excavation, and therefore it may be prudent to carry out a trial pit investigation to confirm that deep made ground/opencast backfill materials are not present in this part of the site.

3.7 Ground Gas

3.7.1 Landfill Gas

The Envirocheck report contains a total of four records of historical landfill sites within 250 m of the site. These are all shown to be located within the former spoil heaps of the Milton Iron Works.

The two closest landfill records relate to the eastern part of the spoil heaps, which are located from around 10 m west of the site. These landfills were operational after 1972, and were permitted to receive inert, commercial and industrial wastes.

The second pair of records relate to an area of the spoil heaps around 200 to 225 m from the site. No records as to the types of waste accepted or the dates of operation for this landfill are supplied. It is likely that this refers to the actual tipping of the iron works waste around 100 years ago.

As the spoil heaps are predominantly above ground features, a significant risk of gases entering the ground beneath the heaps and migrating through the mudstone strata towards the site is not considered to be presented. Any gases which are being generated in any of these landfills are likely to take the path of least resistance, and will therefore tend to migrate towards the top or towards the faces of the former spoil heaps and will therefore be vented to atmosphere before reaching the development site. As the heaps have been in place for many, many years, it is not expected that significant volumes of gas will still be being generated.

An area of potentially infilled ground is also recorded around 75 m south west of the site. This appears to be the former gravel pit noted on the historical maps. This was a relatively small pit, and

appears to have been filled over by the 1960s, potentially with colliery spoil (on the basis of information gained in other, previous investigations in that area). Again, a significant risk of gas generation for this localised feature is not generally expected.

The site is generally not expected to contain deep made ground, although embankments are indicated to exist across the south western corner on the historical maps, possibly relating to the construction of the adjacent railway. This may mean that deep made ground is present in this area of the site. Some made ground may also be present around the position of the former school buildings, although this is generally not expected to exceed about 2 m in depth.

Based on all of the above information, the site is generally considered to be at low risk from the generation and migration of landfill gases. However, there is the potential for deep made ground to be present locally and therefore some gas protection measures may be required within the new dwellings.

3.7.2 Radon Gas

Information contained within the Envirocheck Report also states that no radon precautions will be required for properties constructed at the site.

3.8 Pollution Incidents to Controlled Waters

The Envirocheck Report does not list any pollution incidents within 250 m of the site.

3.9 Discharge Consents

The Envirocheck Report records one active discharge consents within 250 m of the site. This is located around 20 m south west of the site, and permits sewage storm water overflow to enter the culverted water course that is present in this area. The culvert is named as a tributary of Knoll Beck by the data entry. The site is not expected to be affected by this discharge.

3.10 Flooding

Information provided in the Envirocheck Report shows that the site does not lie within a flood plain.

4.0 OUTLINE CONCEPTUAL MODEL

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

Potential Pollutant Linkages

Source	Pathway	Receptor
• Heavy metals and PAHs in any made ground.	• Ingestion, inhalation, direct contact.	• Site workers. • Future residents and visitors.
	• Migration through ground.	• Secondary A aquifer.
• Naturally elevated levels of heavy metals in the natural ground.	• Ingestion, inhalation, direct contact.	• Site workers. • Future residents and visitors.
	• Migration through ground.	• Secondary A aquifer.
• Ground gas generated by potential deep made ground on site.	• Upward migration into dwellings.	• Future residents and visitors. • Buildings.
• Sulphates in made ground.	• Direct contact.	• Below ground concrete.

5.0 GROUND INVESTIGATION

5.1 Site Works

Eastwood & Partners visited site on 29 April 2016 and excavated eight trial pits, TP1 to TP8, in order to determine the underlying ground conditions. These reached depths of between 1.8 m and 4.2 m below ground level. The trial pits were generally terminated upon encountering hard ground, where further progression was difficult, although TP1 was terminated due to an obstruction within the pit, and TP 7 and TP8 were terminated at the limit of the excavator's reach.

TP2 and TP5 were terminated at slightly shallower depth in order to undertake infiltration tests to determine whether soakaway drainage may be viable on the site.

The trial pit positions were selected to give good site coverage.

Copies of all trial pit logs are presented in Appendix 3, and their locations are plotted on the Exploratory Hole Location Plan, Drawing number 39825/001 revision A in Appendix 1. The results of the infiltration tests are discussed further in Section 7.7.

5.2 Laboratory Testing

Two samples of natural clay and one sample of colliery spoil made ground were submitted to PSL in Doncaster for geotechnical testing.

Six samples of made ground and three samples of natural ground were despatched for chemical testing. Soil samples were taken in 1 kg plastic tubs and 250 ml amber glass jars and analysed at Chemtest Laboratories, Newmarket using MCERTs accredited methodologies where available.

Laboratory testing results are presented in Appendices 4 and 6, and are discussed further in Sections 7.0 and 8.0.

6.0 GROUND CONDITIONS

6.1 Surface Covering

All of the trial pits encountered made ground from surface, which is currently covered by scrub grass and vegetation. Localised parts of the site, mainly in the north west of the eastern area, are covered by concrete. No trial pits were excavated through this, but the hardstanding does not appear to be of significant thickness.

6.2 Made Ground

Made ground was encountered in all eight trial pits from surface.

In the eastern part of the site, the made ground predominantly comprised construction/demolition arisings, probably associated with the construction and subsequent demolition of the former school buildings. The materials encountered comprised mainly crushed brick, concrete and sandstone, with inclusions of wire, metal and some timber. Tree root sections were also occasionally included. The made ground in the northern part of the site was found to be quite loosely placed. Some intact footings and substructure was encountered in a number of the trial pits.

In the southern part of the site, the made ground was found to be more compact, and comprised mainly sand and gravel with some inclusions of ash and clinker. This was possibly beneath the former playground areas, although it is possible that this area was used as a compound area during the construction of the adjacent park and ride. A thin (100mm) layer of macadam was encountered in TP6 only.

The made ground in the eastern part of the site extended to depths of between 1.2 m and 2.3 m below ground level in the north, and to between 0.5 m and 1.3m bgl in the south.

In the area to the west of the station access road, made ground was encountered for the full depth of both trial pits TP7 and TP8. This comprised clayey sandy gravel and sandy gravelly clay, which was probably colliery spoil. The gravel was mainly of mudstone. The made ground reached depths of at least 3.8 to 4.2 m bgl in the trial pits, although the base of the made ground was not confirmed.

6.3 Natural Ground

In the eastern area of the site, the natural ground was found to comprise stiff friable clay overlying weathered mudstone, which was encountered from depths of between 0.5 m bgl and 2.3m bgl. The clay was locally silty and locally sandy. In TP6, a thin layer of clayey sand was encountered between 1.3 m and 1.6 m bgl.

The mudstone was generally encountered from depths of between 1.5 m and 2.3 m bgl.

The natural ground was not encountered in TP1 due to encountering an obstruction, which was probably a concrete slab at 1.8 m bgl. However, the natural ground was likely to be present directly beneath this slab, based on the result of the surrounding trial pits.

Natural ground was not encountered in the western part of the site, where the made ground extended to depth so between at least 3.8 m and 4.2 m bgl. The existing embankment on this boundary is around 5 to 6 m high, and it is therefore likely that the natural ground will be encountered at around this level.

6.4 Obstructions

Obstructions were encountered in a number of the trial pits in the north eastern area of the site. In TP1, an apparent concrete slab was encountered at 1.8m. Relic footings and buried brickwork were also encountered in TP3 between 1 m and 2.3 m bgl.

It therefore appears that the demolition of the previous buildings only extended to the above ground structures ad the floor slabs, with the foundations and any cellar floors that may be present being left in situ.

6.5 Groundwater

Groundwater was not encountered during the investigation.

6.6 Evidence of Contamination

Visual or olfactory evidence of possible significant contamination was not identified in any of the exploratory holes.

7.0 GEOTECHNICAL APPRAISAL

7.1 General

Our investigations indicate that beneath the made ground in the east of the site, competent natural clay and mudstone soils are present. Deep made ground of colliery spoil is present in the west of the site.

During our trial pit investigation, no evidence of any surface disturbance for the prior extraction of coal was encountered. No seams of coal were encountered, and therefore it is assumed that the Kent's Thick Coal outcrop position is actually further north that the maps conjecture, and therefore this seam will not affect the site. The Thin Coal was also not encountered and therefore this is also assumed not to be present on site. As neither seam was expected to have been worked in the past in any case, it is concluded that the site is not at risk from the effects of shallow coal mining.

Two samples of the natural clay and one of the colliery spoil were submitted for geotechnical testing to determine the heave potential of the soil. The results, PSL report PSL16/2137, are included in Appendix 4. These indicate the natural clay to have modified plasticity indices (in accordance with NHBC Chapter 4.2 guidance) of 15.2% and 20.9%, which equates to low to medium shrinkability. It is therefore recommended that the worst case scenario is adopted, and that the natural clay is assumed to be f medium volume change potential. The sample of colliery spoil was found to have a modified plasticity index of 24%, which also equates to medium volume change potential.

The natural clay is indicated by in-situ hand penetrometer readings to have an allowable bearing capacity of at least 150 kN/m^2, which will increase rapidly within the weathered bedrock.

7.2 Foundations

In the eastern part of the site, conventional strip or trench-fill footings within the natural clay are considered appropriate. These should be taken through any made ground that is present, and should be constructed within undisturbed natural clay at a minimum depth of 900 mm bgl. Footings will need to be deepened near to existing, removed or proposed trees. Heave precautions will be required where the footings depth due to existing/removed trees exceeds 1.5m.

Due to the slope of the site, some of the footings may need to be designed to act as retaining structures, unless the ground is first terraced or levelled beneath the plots. However, retaining walls are also likely to be required between the plots to bridge the various changes in level.

In the western part of the site, significant depths of made ground are present, and therefore piled foundations are considered to be most appropriate taken through the colliery spoil into the underlying clay/mudstone. The natural ground is expected to be present at a depth of around 6 m below the ground level on site, and therefore a pile length of around 10 m should be assumed at this stage.

7.3 Ground Floors

Due to the depth of made ground across the site and due to the sloping natural of the ground in the east of the site, precast concrete floors are considered most appropriate. A 250 mm high ventilated void should be provided below the slab.

7.4 Superstructure Precautions

No additional superstructure precautions should be required due to the ground conditions encountered.

7.5 Excavation Problems

We do not anticipate any significant problems excavating trenches within ground on site, although the stability of trenches within the looser demolition arisings made ground may be poor. A cut and fill exercise will need to be undertaken before construction commences.

The stability of trenches is likely to be variable due to the presence of made ground. Support will be required in accordance with current Health & Safety Regulations wherever access is required to trenches deeper than 1.2 m or less where there is risk of collapse.

7.6 Obstructions

The foundations and substructure of the former school buildings appear to remain in situ beneath the site. These will need to be broken out around the proposed new houses where they conflict with new structures.

7.7 Surface Water Drainage

The ground below the site is clayey in nature and therefore infiltration drainage is not expected to be viable. Two soakaway tests were undertaken within the trial pits, one in TP2 and one in TP5. The results of these were that the water level remained virtually constant for the duration of the tests, and an infiltration rate of approximately zero was recorded in both tests.

It will therefore be necessary to connect the surface water outfall from the new development into a piped sewer system, subject to approval by the water company and the Local Authority. A public combined sewer is recorded to cross the site, and an apparent private surface water system is present in the station car park access road, which discharges into a culvert just south west of the site. It is possible that the site could connect into one of these existing systems, but this is generally considered to be unlikely. It is more likely that a new piped discharge will need to be installed to serve the site, although this may still be able to discharge into the nearby culvert.

On site flow attenuation will be required to restrict the discharge rate.

7.8 Concrete

As discussed in section 8.7.3, it is recommended that sulphate precautions of DS-2 AC-2 will be suitable for below ground concrete in the east of the site where made ground is present, and DS-1 AC-1 precautions where concrete is only in contact with the natural soils.

Where colliery spoil is present in the western area of the site, it is recommended that class DS-1 AC-3z precautions are adopted due to the locally low pH values recorded in this material.

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 study was detailed in section 4.0.

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 Ground Conditions

There is no reason to suspect that the made ground or natural ground encountered on site will contain any significantly elevated concentrations of contaminants. However, some ashy materials were locally encountered which can lead to elevated concentrations of heavy metals and PAHs being present. Naturally elevated contaminants such as arsenic are occasionally encountered in Coal Measures strata. In addition, atmospheric fallout of contaminants such as benzo(a)pyrene can sometimes lead to elevated levels within near surface soils.

The chemical analysis undertaken for these materials are discussed in section 8.5.

8.3 Gas Precautions

There are two landfill sites within 250 m of the site. These are located to the west of the site, within the spoil heaps of the former Milton Iron Works. As these sites are predominantly above ground features, and as the materials have been in place for many years, a significant risk of ongoing gas generation and migration to the development site is not expected. Similarly, the clayey nature of the soils beneath the site are expected to limit any flow of gas from a potentially infilled gravel pit to the south west of the site. A significant risk of landfill gas migration from the surrounding area is therefore not expected to be present.

However, deep made ground was encountered in the south western of the site. This comprised reworked clay and sand, and did not contain any organic material and no voids were present within the layers of material. It is therefore not expected that any significant levels of methane would be produced by this material, which appears to have been placed during the construction of the railway line in the early 1900s. Some very low concentrations of carbon dioxide could be produced, although no significant flows of gas are expected.

The overall risk of ground gases affecting the site is therefore considered to be low. The plots are to use precast concrete floors with a passively ventilated void below in any case doe to the ground conditions across the site, and this should in itself mitigate any risk of gas migrating up into the new dwellings. However, it may be prudent to include a fully lapped and sealed gas resistant membrane within all of the plots in the western part of the site which overlie the deeper made ground.

No radon precautions are required at the site.

8.4 Unexpected Contamination

No visual or olfactory observations of unexpected contamination were noted.

8.5 Chemical Testing

Five samples of made ground, two samples of colliery spoil and three samples of natural ground were sent for testing. Each of the samples was analysed for the suite of contaminants listed below:

Contaminant Type	Actual Contaminants
Metals/Metalloids	Arsenic, cadmium, chromium (VI and total), lead, mercury, nickel, selenium, copper and zinc
PAHs	Speciated PAH
pH	pH
Sulphates	Water soluble sulphate, total (acid soluble sulphate) and sulphur.

In addition to the suite of testing listed above, the samples of made ground and colliery spoil were also screened for asbestos. One sample of dark grey made ground was also scheduled for a fully fractionated TPH test.

Testing was undertaken by Chemtest, using MCERTs accredited methodologies, where available.

8.6 Assessment Criteria

The proposed development of the site is to be residential with associated private gardens. Therefore the assessment criteria relating to a residential end use with plant uptake have been used.

Tables detailing the relevant assessment concentrations used are included in Appendix 6.

8.7 Chemical Test Results

Some preliminary risk assessment is undertaken in this section of the report where determinants can be readily discounted.

8.7.1 Made Ground/Colliery Spoil

Metals/Metalloids

No metals/metalloids were found to be elevated within any of the samples of made ground or colliery spoil tested.

PAH's

The following compounds recorded concentrations above the respective assessment values within the made ground:

Contaminant	Assessment Value (mg/kg) assuming 1% SOM	Sample/Concentration (mg/kg)				
		TP1 0.4 m	TP2 0.4 m	TP3 0.4 m	TP4 0.5 m	TP6 0.4 m
Naphthalene	**2.3**	**3.5**	0.76	1.0	0.79	0.15
Benzo(a)anthracene	**7.2**	**40**	2.9	**24**	6.2	1.0
Chrysene	**15**	**34**	2.0	**20**	4.4	0.73
Benzo(b)fluoranthene	**2.6**	**36**	2.7	**27**	**5.9**	0.81
Benzo(a)pyrene	**2.2**	**34**	**2.3**	**26**	**6.2**	0.61
Dibenzo(a,h)anthracene	**0.24**	**4.9**	0.1	**2.8**	0.15	0.1

- Where figure is in **bold**, the concentration recorded is above the assessment value.

No elevated concentrations of any PAH compounds were recorded within the colliery spoil.

TPH

No concentrations of any TPH fractions above the laboratory limit of detection were recorded within the sample of made ground tested.

Asbestos

No asbestos containing materials were identified within any of the samples of made ground or colliery spoil.

8.7.2 Natural Ground

Metals/Metalloids

No metals/metalloids were found to be elevated within any of the samples of natural ground tested.

PAH's

No PAHs were found to be elevated within any of the samples of natural ground tested.

8.7.3 Sulphates

The site is classified as brownfield due to the presence of made ground. Surface water is expected to be mobile through the near surface soils.

Made Ground

Five samples of made ground were tested for sulphur and the results indicate the total potential sulphates as between 0.18% and 0.45%. A characteristic value of 0.44% is derived. The concentrations of water soluble sulphate were between 10 mg/l and 110 mg/l compared with the upper limit of Design Sulphate Class 1 of 500 mg/l. The pH of all samples was above 6.5.

On the basis of both the potential sulphate results and the water soluble sulphate results, the made ground would be assigned a Design Sulphate Class of DS-2 and Aggressive Chemical Environment for Concrete (ACEC) class of AC-2.

Colliery Spoil

Two samples of colliery spoil were tested and both recorded total potential sulphate concentration of 0.03%. The concentrations of water soluble sulphate were both less than 10 mg/l compared with the upper limit of Design Sulphate Class 1 of 500 mg/l. The pH of the samples were 4.8 and 8.0.

On the basis of both the potential sulphate results and the water soluble sulphate results, the made ground would be assigned a Design Sulphate Class of DS-1> however, due to the low pH value recorded, and Aggressive Chemical Environment for Concrete (ACEC) class of AC-3z is appropriate.

Natural Ground

Three samples of natural ground were tested Total potential sulphate concentrations of between 0.03% and 0.06% have been calculated. The concentrations of water soluble sulphate were

between 10 mg/l and 42 mg/l compared with the upper limit of Design Sulphate Class 1 of 500 mg/l. The pH of all samples was again above 6.5.

On the basis of both the potential sulphate results and the water soluble sulphate results, the natural ground would be assigned a Design Sulphate Class of DS-1 and Aggressive Chemical Environment for Concrete (ACEC) class of AC-1.

8.8 Significant Pollutant Linkages

The significant pollutant linkages consequently identified are thus documented in the table below.

Significant Pollutant Linkages

Source	Pathway	Receptor
• PAHs in the made ground.	• Ingestion, inhalation, direct contact	• Future residents or visitors. • Construction workers
	• Ingestion of vegetables grown within contaminated soils.	• Future residents or visitors.
	• Migration through ground	• Secondary A aquifer.
	• Direct contact and permeation through plastic pipework.	• Water pipes.
• Sulphates in the made ground. • Low pH values in the colliery spoil.	• Direct contact.	• Below ground concrete.
• Carbon dioxide generated within the deep colliery spoil made ground in the south west of the site.	• Upward migration	• Future residents or visitors,. • Buildings

9.0 RISK ASSESSMENT

9.1 Human Health – Future Residents and Visitors

The made ground which currently covers the eastern side of the site has been found to contain significantly elevated concentration of PAH compounds, particularly where ashy materials are present. However the made ground is not aesthetically suitable to remain at surface within private gardens, and therefore a capping layer of inert topsoil/subsoil is proposed to cover the made ground.

This capping layer should be a minimum of 600 m thick wherever made ground remains. However the cutting and filling of the site to create development plateau's may remove the made ground in some areas of the site.

The colliery spoil in the western area of the site does not contain any elevated concentration of contaminants, and therefore a capping layer should not be required in this area provided that no other types of made ground are encountered. A topsoil growing medium will be necessary, however.

9.2 Human Health – Construction Workers

Ground workers employed during the construction phase of the development are most at risk of harm due to them having direct contact with the affected soils. However, the contact is generally of short duration, and all competent ground workers will be aware of the potential risks associated with soils of this nature. Therefore the overall risk to the health of construction workers is considered to be low.

All ground workers employed on the site should be made aware that elevated concentrations of PAHs are present, and normal site procedures such as the wearing of gloves when handling soils, and the washing of hands prior to eating should be implemented.

Any unusual, brightly coloured, ashy or odorous material encountered during construction should be brought to the attention of the site staff and investigated.

9.3 Plants

No elevated concentrations of any phytotoxic metals have been identified and therefore there should be no risk to plants.

At least 150 mm of topsoil should be included within the 600 mm capping (i.e. 450 mm of subsoil with 150 mm of topsoil above) to act as a growing medium for plants in the east of the site. At least 150 mm of topsoil should be placed above the colliery spoil in the west of the site.

9.4 Ground Gases

There is a low risk of gas generation from within the deep made ground in the western part of the site. This risk is considered negligible, and the provisions made within the substructure design due to other constraints (ventilated sub-floor voids and precast concrete floors) are likely to provide sufficient mitigation against this risk across most of the site. However, it is considered prudent to include a fully lapped and sealed gas resistant membrane within the floor construction of all plots in the west of the site which directly overlie the deep colliery spoil fill.

The membrane should be resistant to low concentrations of carbon dioxide and methane, and should be continuous across the plots and wall cavities to the external leaf of brick work. The membrane should be lapped and sealed to the DPC by a minimum of 150 mm. All joints should be lapped and sealed by the same length , in accordance with the manufacturer's instructions.

9.5 Controlled Waters

The significantly elevated concentrations of PAHs are currently found within the made ground, and do not appear to be leaching or migrating down into the natural ground.

After development, significant areas of the site will be hard covered. Additional drainage will also be installed. The installation of a topsoil and subsoil capping layer will also reduce the volume of rain water soaking into the made ground. Therefore, the overall situation with regards to surface water percolating through the fill will remain relatively unchanged, and if anything less water will be able to permeate through the ground post development.

The site overlies a Secondary A Aquifer and there are no groundwater source protection zones or abstractions within 250 m of the site.

Based on this, the overall conclusion is that the risk to controlled waters is very low.

9.6 Construction Materials

As discussed in section 8.7.3, class DS-2 AC-2 sulphate precautions should be allowed for in below ground concrete which will be in contact with the made ground, and class DS-1 AC-3z for concrete in contact with the colliery spoil in the western area of the site.

No sulphate precautions are needed where only natural ground is present.

9.7 Unexpected Contamination Encountered During Groundworks

It is considered unlikely that further significant contamination will be encountered during the construction works on the site.

Should any unusual, brightly coloured, ashy or odorous material be encountered during construction this should be brought to the attention of the site staff and investigated.

10.0 CONTAMINATION - RECOMMENDATIONS AND APPROVALS

1. The existing made ground in the eastern area of the site contains elevated concentrations of PAHs. It is recommended that a 600 mm capping layer of inert soil is placed over the made ground in all gardens and areas of soft landscaping. At least 150 mm of topsoil should be placed within the capping layer.

2. Clean subsoil and topsoil may need to be imported to site to construct the capping.

3. The results of sulphate testing indicate that Class DS-2 AC-2 sulphate precautions are required where foundations or other sub-surface concrete structures will be in contact with the general made ground. Class DS-1 AC-3z precautions are required for subsurface concrete which is in contact with the colliery spoil in the western area of the site. Class DS-1 AC-1 concrete will be suitable where only natural ground is present around sub-surface concrete.

4. A very slight risk if considered to be presented by gas generation from within the deep colliery spoil in the west of the site. It is recommended that a fully lapped and sealed gas resistant membrane is included in the substructure of any plots that are constructed in this area.

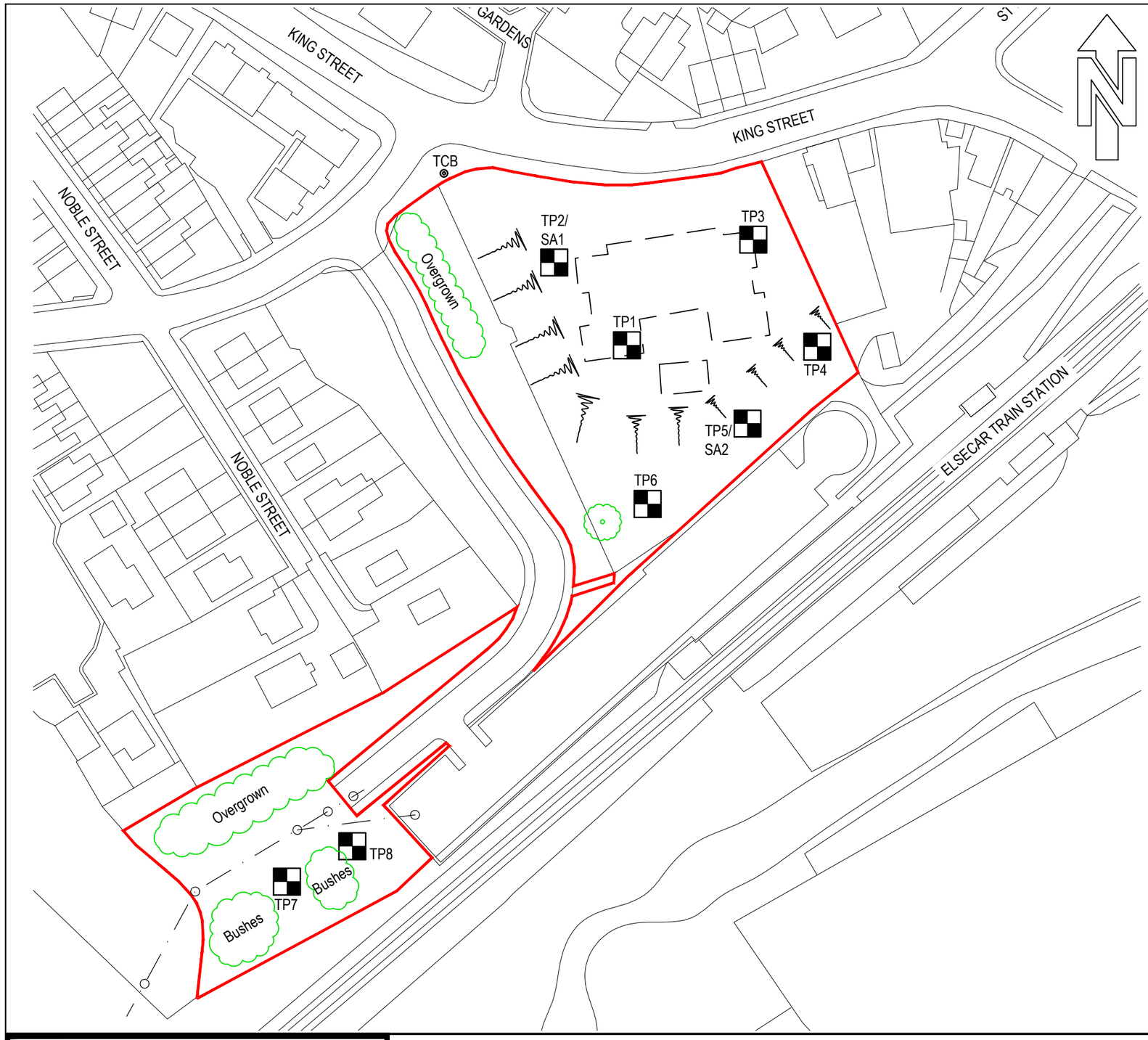
5. No radon precautions are required at the site.

6. There should be no significant contamination risks to construction workers from the ground on the site but normal good hygiene precautions such as washing hands before eating should be implemented.

7. The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies such as the Local Authority and the NHBC, if applicable.

Appendix 1

'Exploratory Hole Location Plan', drawing reference 39825-001 Revision A



INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

KEY:

- Site boundary
- Approximate location of trial pits excavated by Eastwood & Partners on 29.04.10
- Approximate outline of former school building.
- Approximate position of manholes noted by Eastwood & Partners on site (Assumed private drainage).

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

Eastwood & Partners
CONSULTING ENGINEERS
St. Andrew's House
23 Kingfield Road
Sheffield
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Tel 0114 255 4554
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www.eastwoodandpartners.com

D J ATKINSON CONSTRUCTION LTD

LAND AT KING STREET, ELSECAR, HOYLAND

EXPLORATORY HOLE LOCATION PLAN

SCALE WHEN PLOTTED AT A3	DRAWING STATUS
1:1000	INFORMATION

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RH	AK	10.05.16	39825/001	A

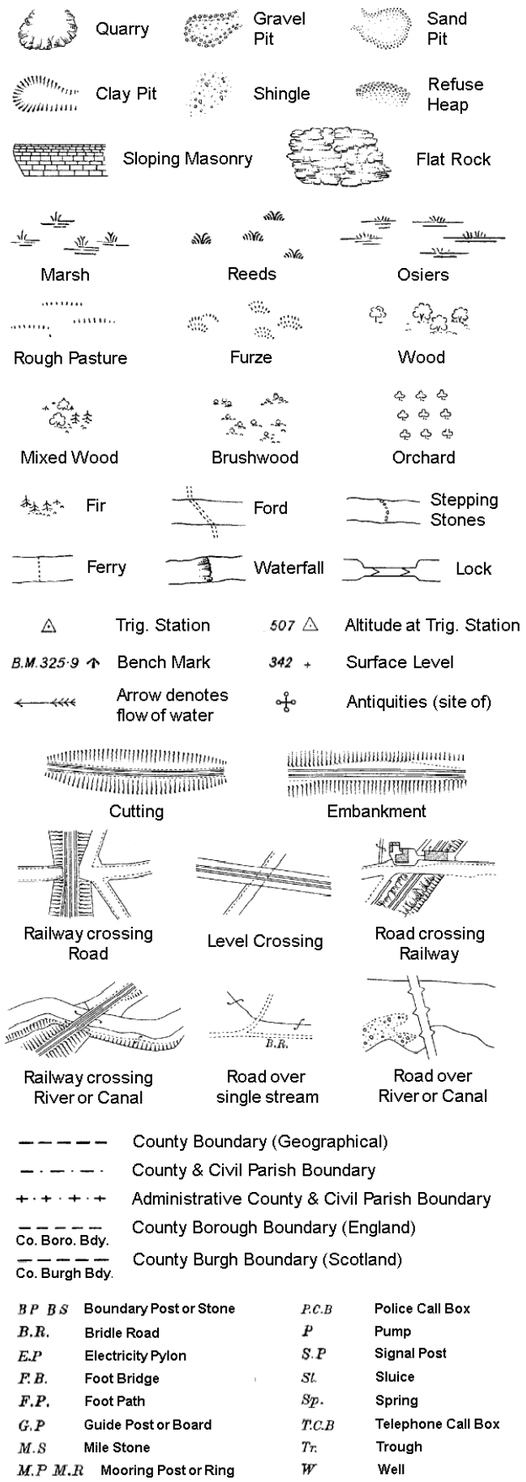
Appendix 2

Envirocheck Report

Coal Authority Mining Report

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

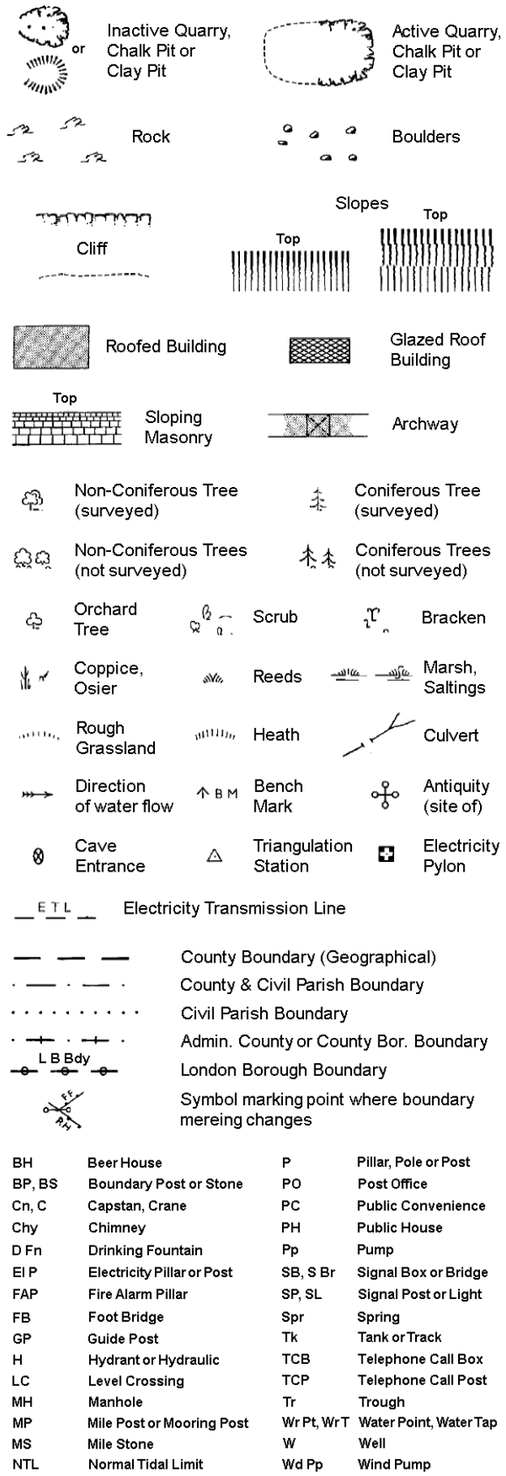
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

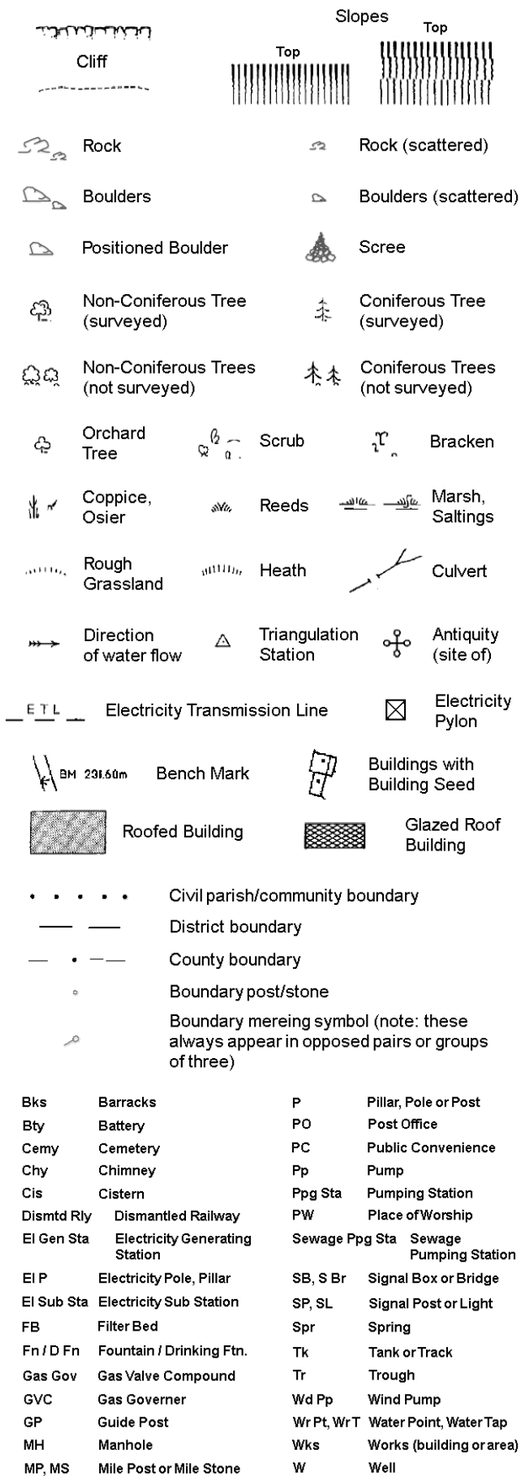
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

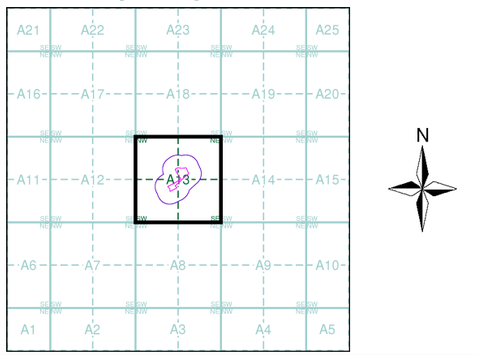
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

Envirocheck®

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	1956	5
Ordnance Survey Plan	1:2,500	1956	6
Ordnance Survey Plan	1:1,250	1968 - 1976	7
Ordnance Survey Plan	1:2,500	1969	8
Additional SIMs	1:1,250	1989	9
Additional SIMs	1:1,250	1992	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:1,250	1994 - 1995	12

Historical Map - Segment A13



Order Details

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Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Landmark® Information Group

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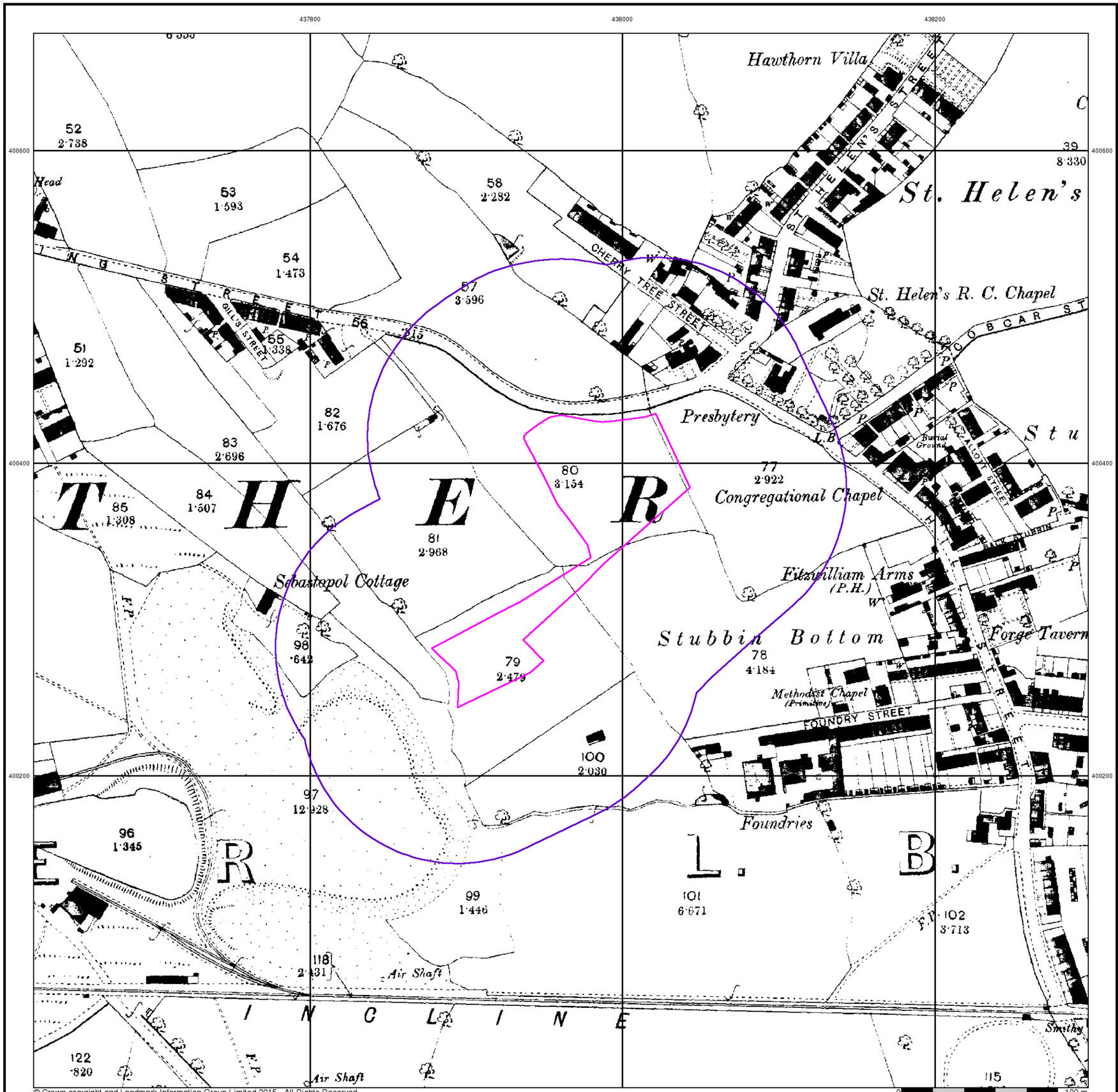

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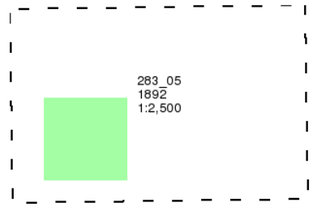
Yorkshire

Published 1892

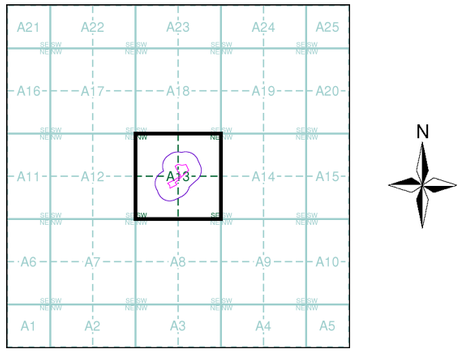
Source map scale - 1:2,500

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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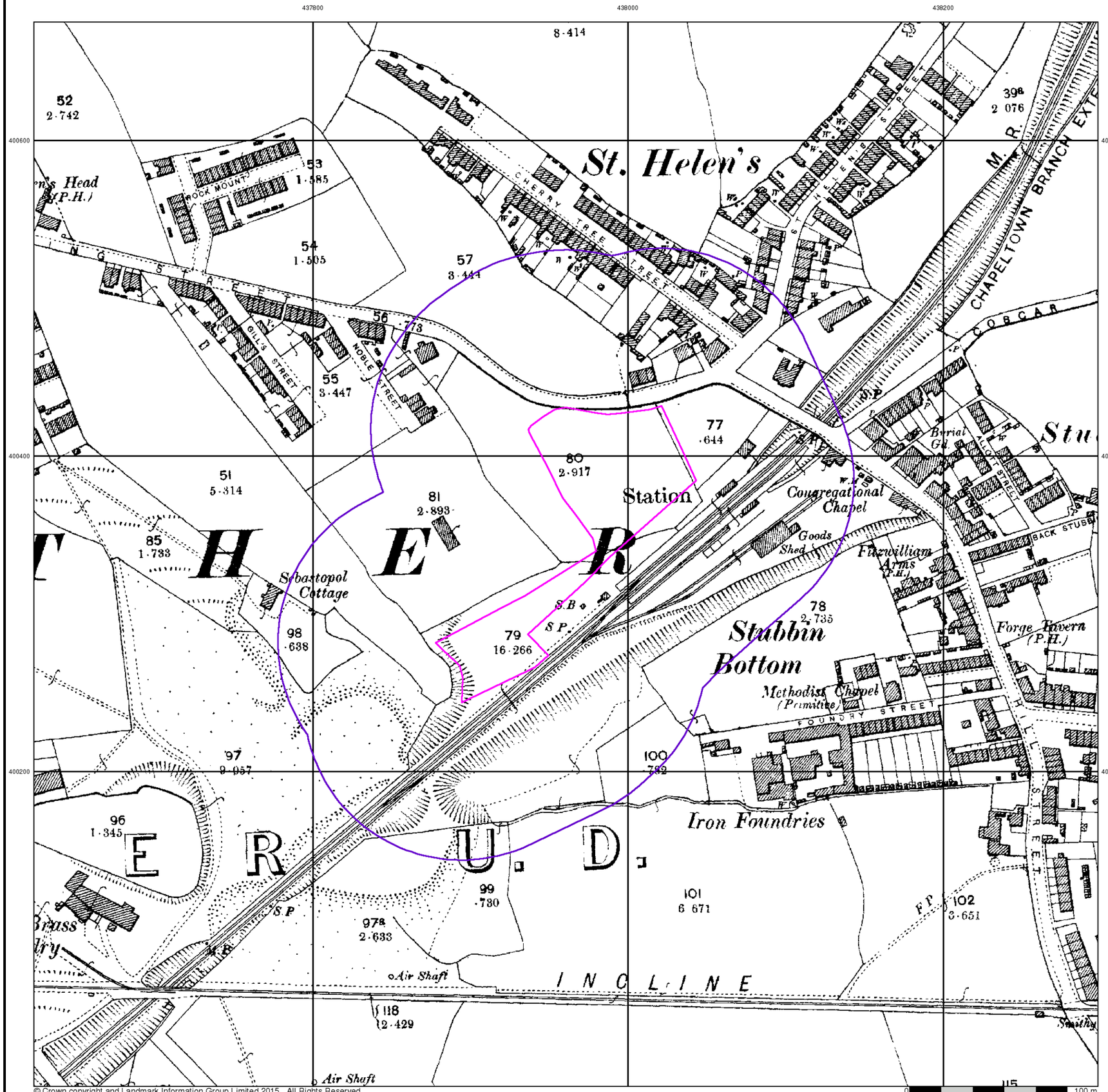

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Yorkshire

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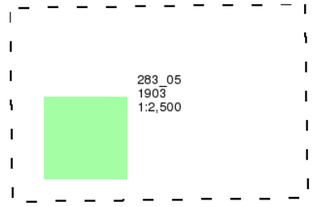
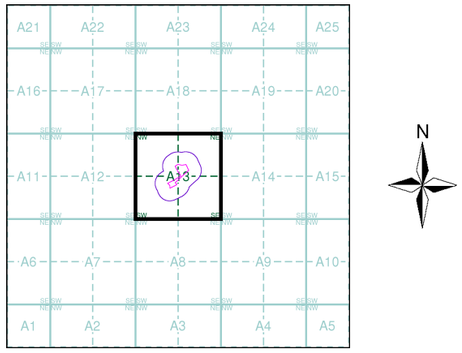


Historical Map - Segment A13



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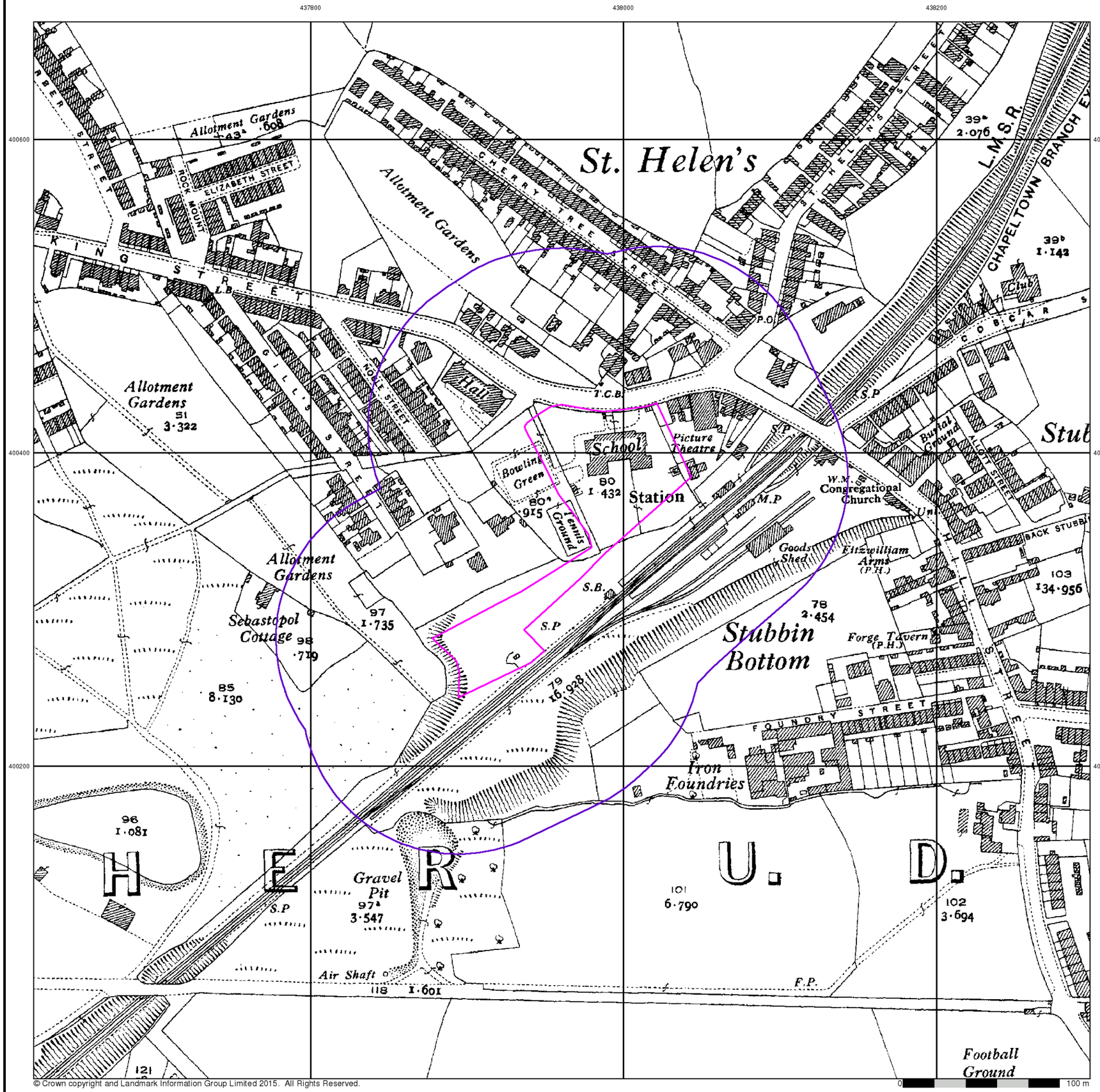

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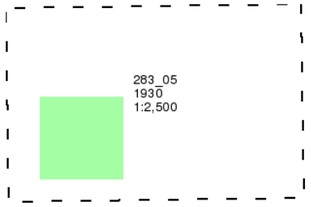
Yorkshire

Published 1930

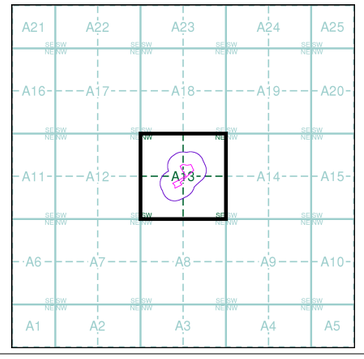
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

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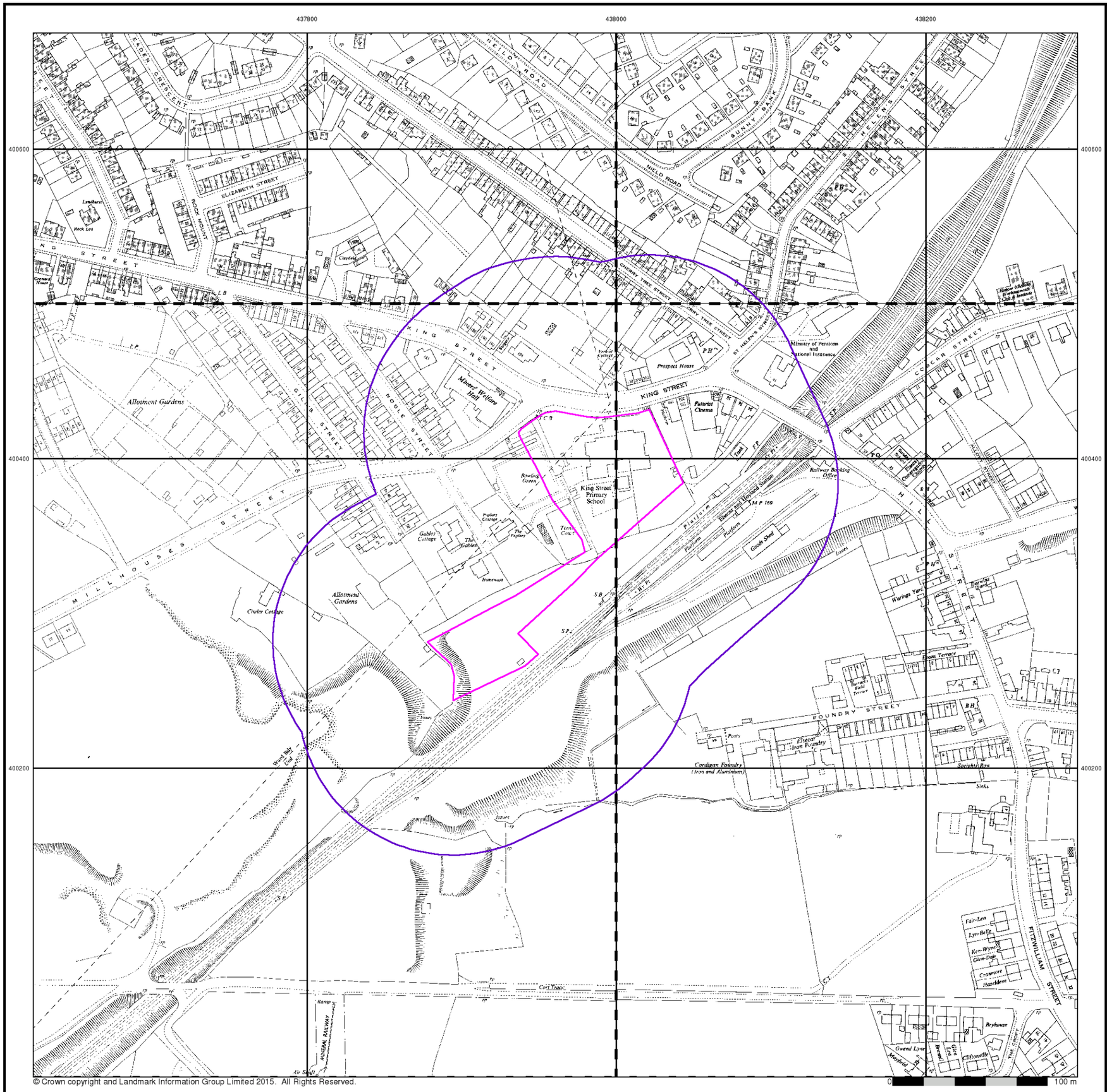
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ordnance Survey Plan

Published 1956

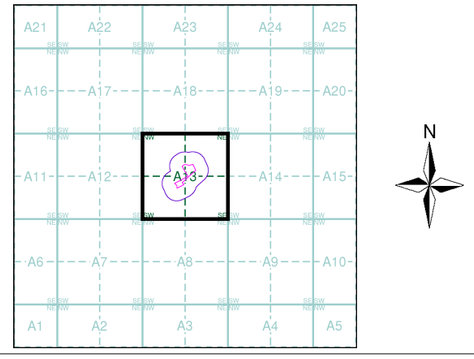
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3700NE 1956 1:1,250
SE3800NW 1956 1:1,250
SE3700SE 1956 1:1,250
SE3800SW 1956 1:1,250

Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
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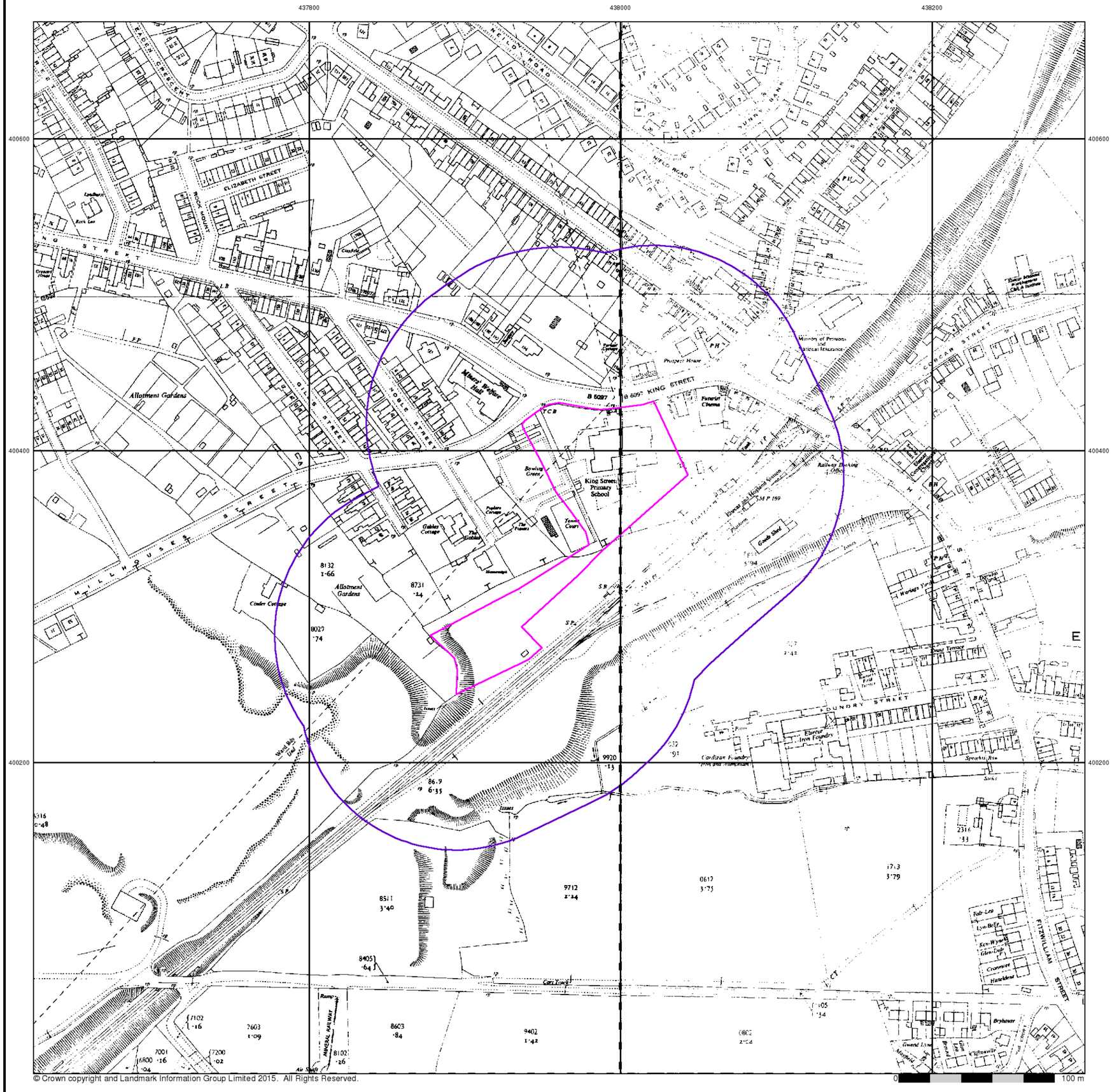

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Ordnance Survey Plan

Published 1956

Source map scale - 1:2,500

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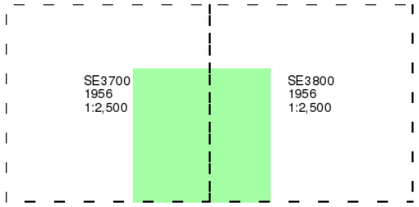
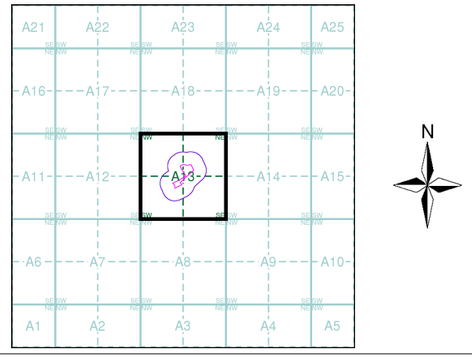
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
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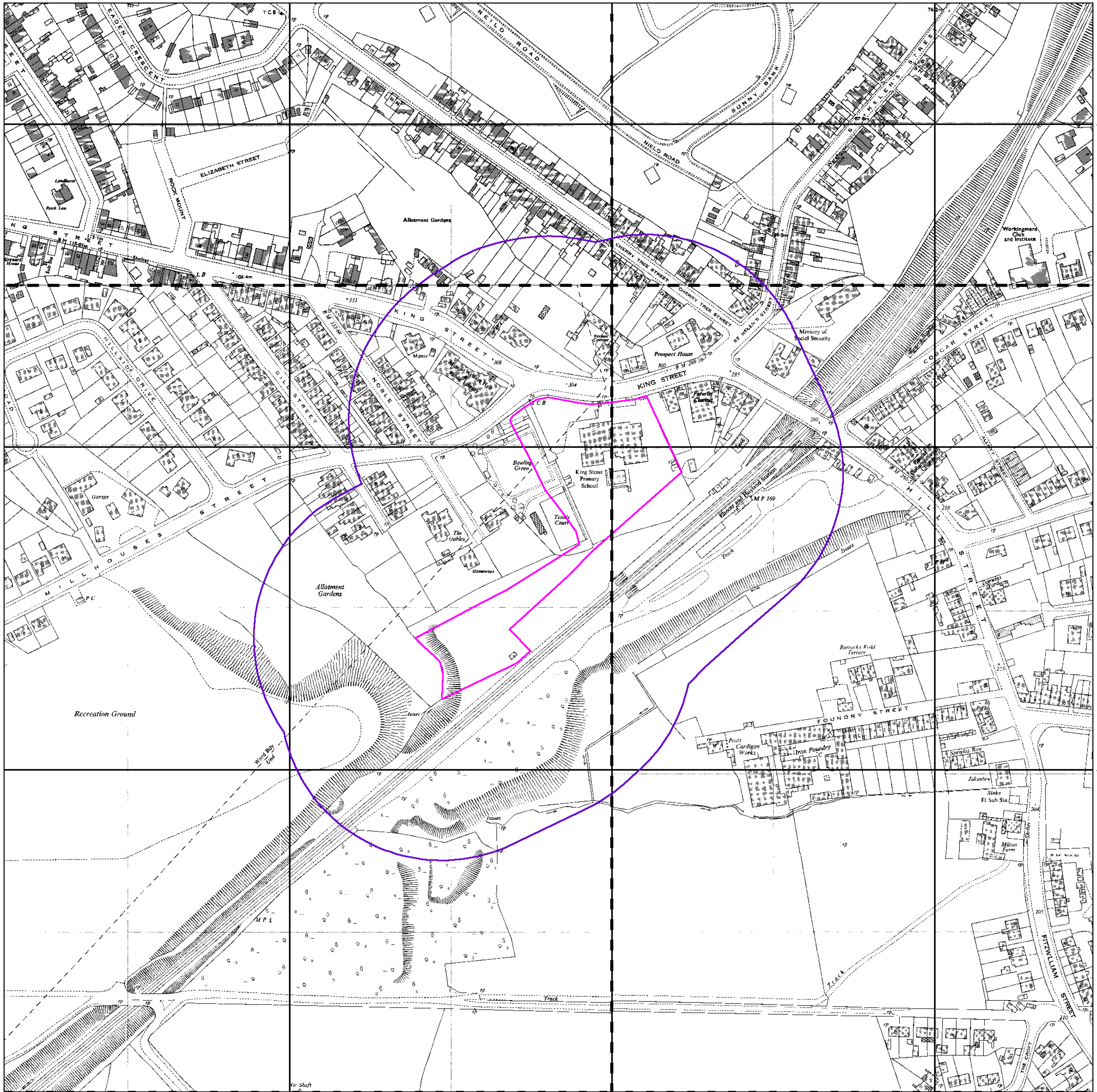

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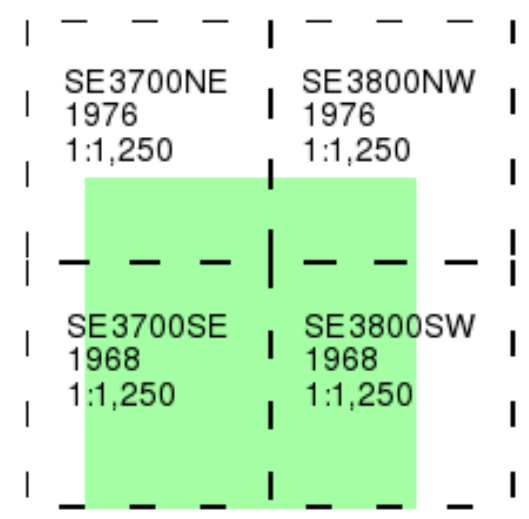
Ordnance Survey Plan

Published 1968 - 1976

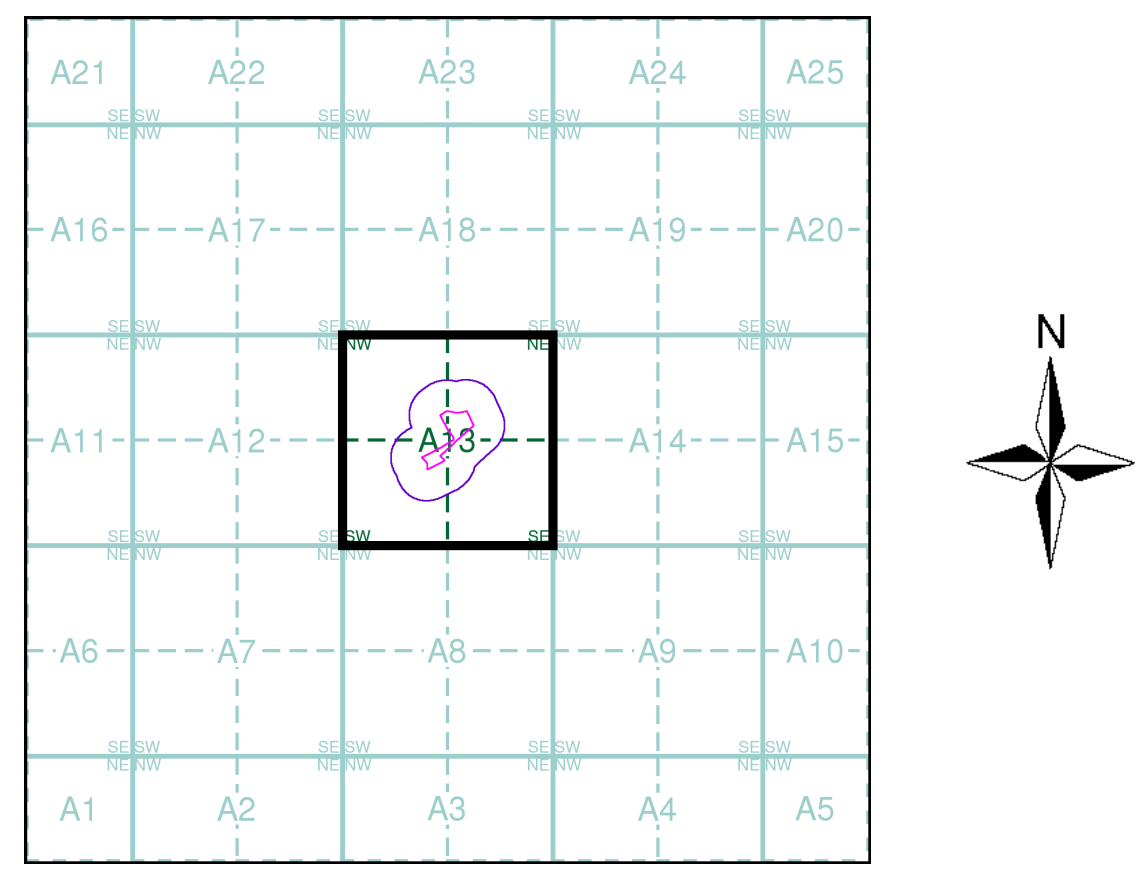
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 84865678_1_1
Customer Ref: 39825/PR
National Grid Reference: 437960, 400340
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 100

Site Details

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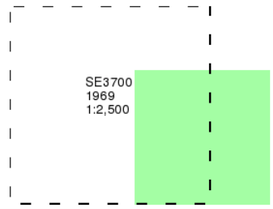
Ordnance Survey Plan

Published 1969

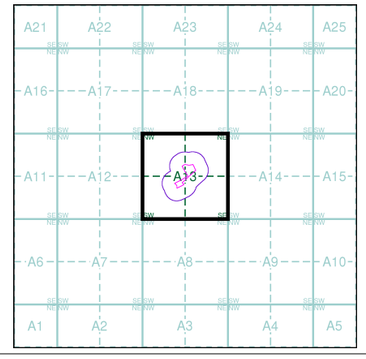
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
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National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

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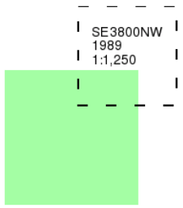
Additional SIMs

Published 1989

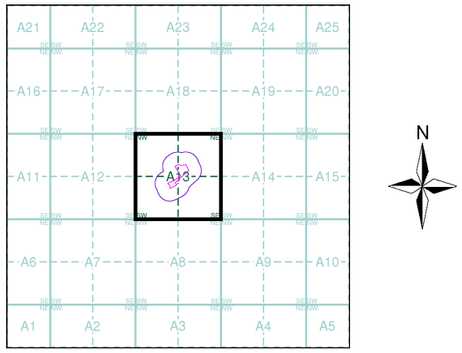
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
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Search Buffer (m):	100

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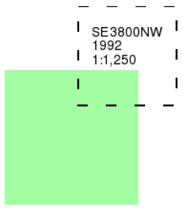
Additional SIMs

Published 1992

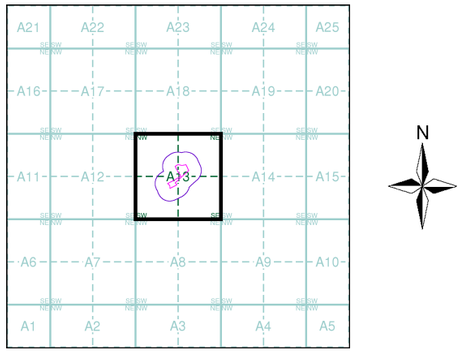
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
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National Grid Reference:	437960, 400340
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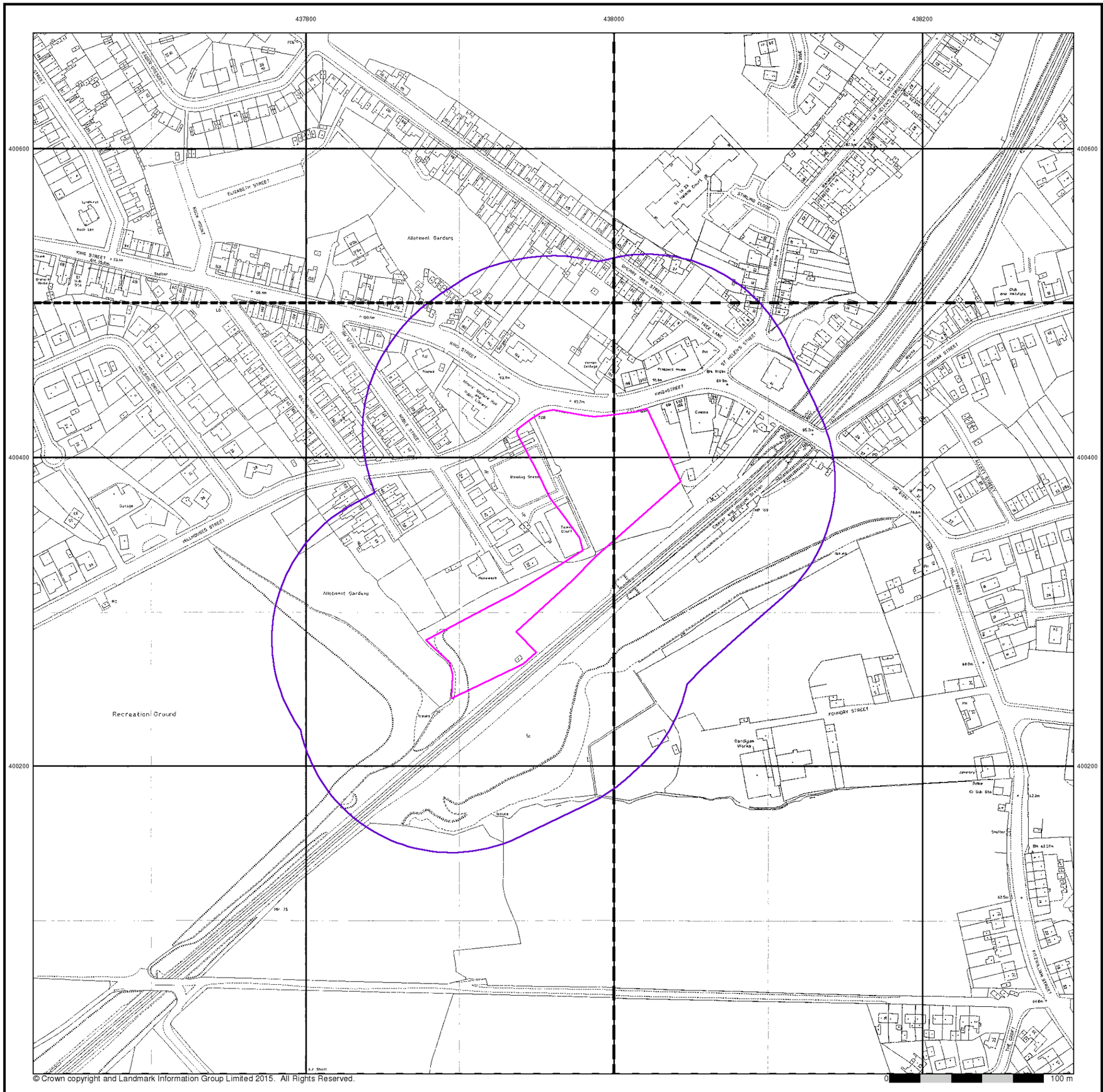

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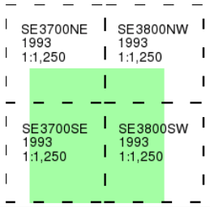
Large-Scale National Grid Data

Published 1993

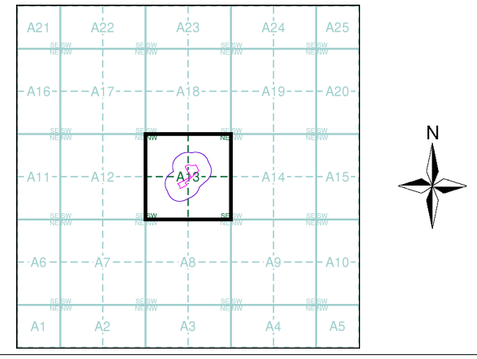
Source map scale - 1:1,250

'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)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

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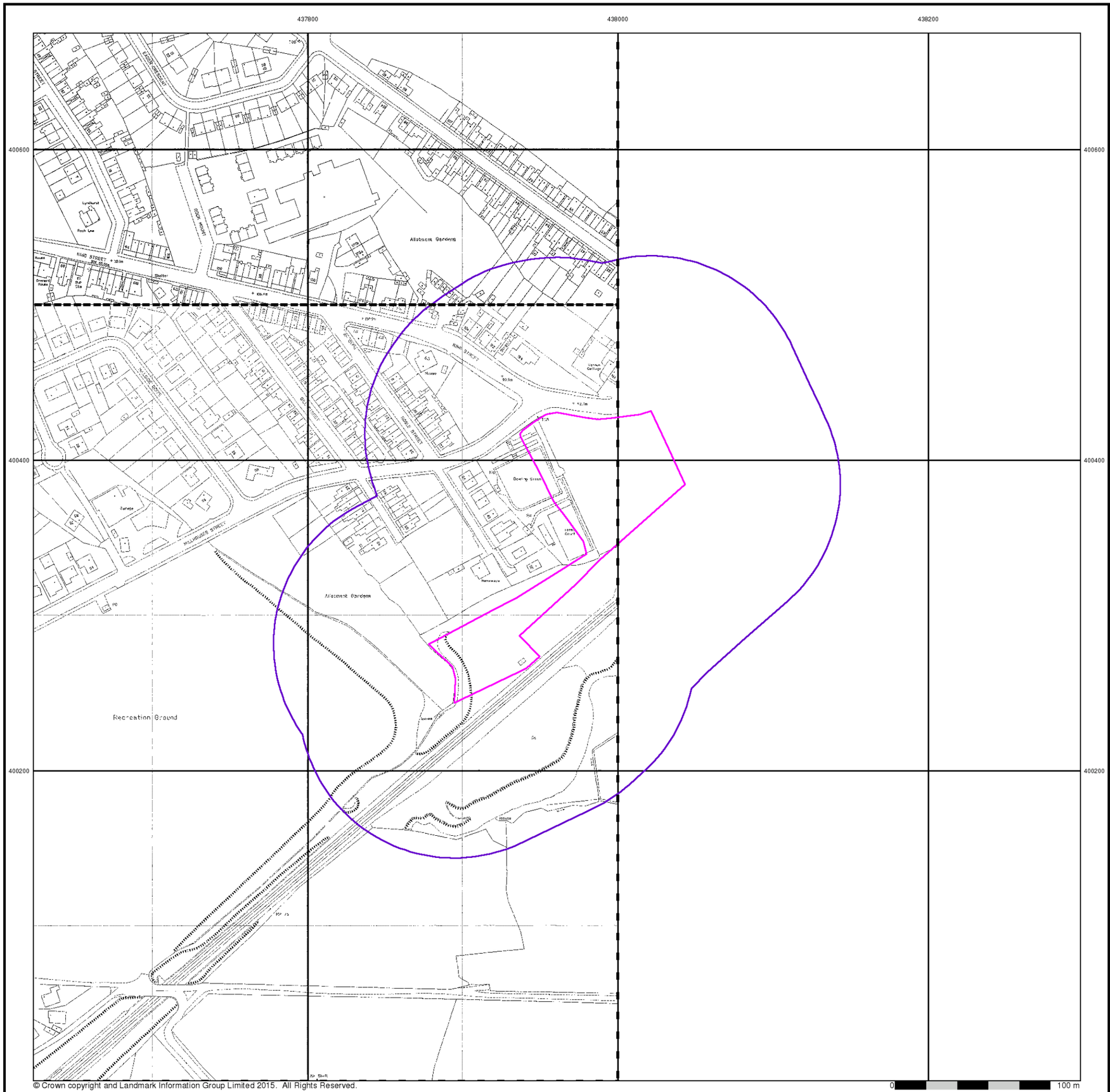


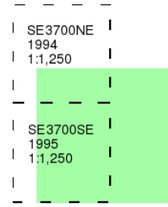
Large-Scale National Grid Data

Published 1994 - 1995

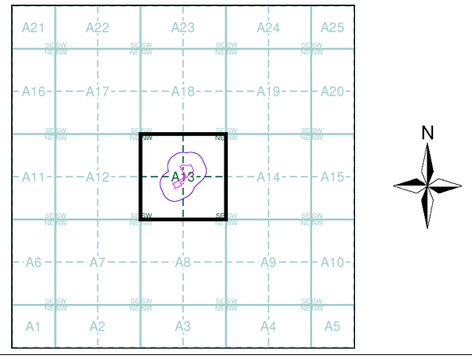
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

1:10,000 Raster Mapping

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

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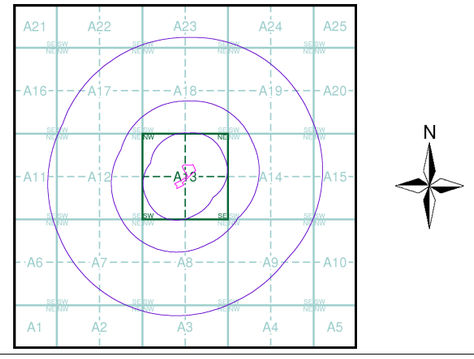
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1855	2
Yorkshire	1:10,560	1893 - 1894	3
Yorkshire	1:10,560	1893 - 1894	4
Yorkshire	1:10,560	1905 - 1907	5
Yorkshire	1:10,560	1931 - 1932	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1965 - 1966	10
Ordnance Survey Plan	1:10,000	1980 - 1982	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1991	13
Historical Aerial Photography	1:10,000	1999	14
10K Raster Mapping	1:10,000	2000	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2016	17

Historical Map - Slice A



Order Details

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Site Details

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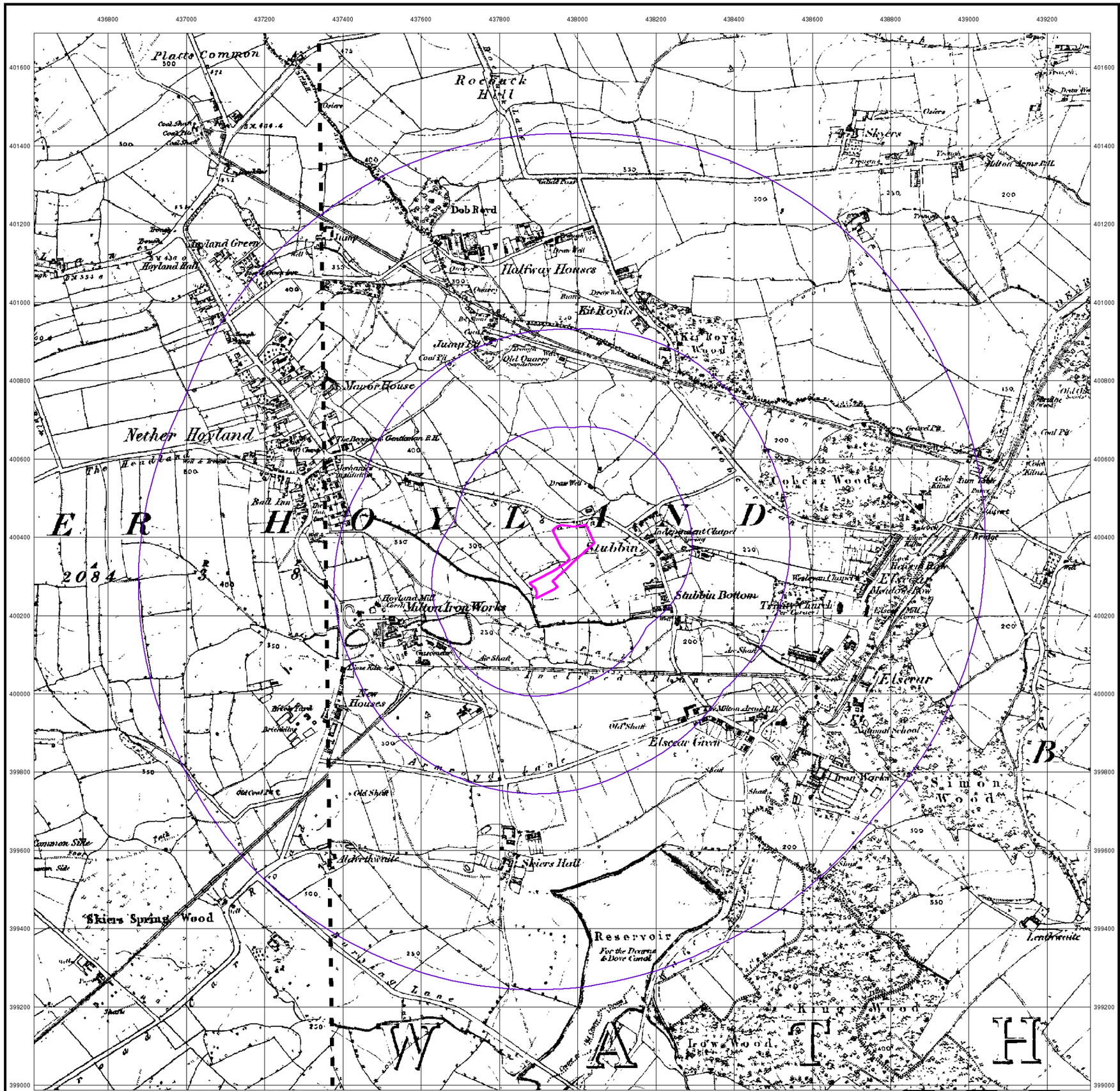

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0 400 m

Envirocheck®

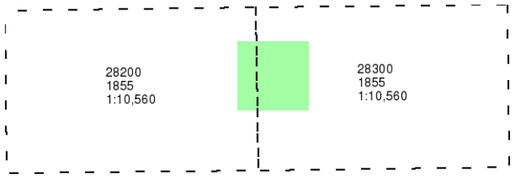
Yorkshire

Published 1855

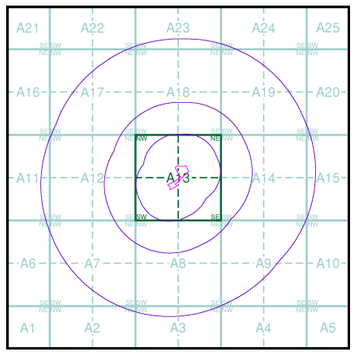
Source map scale - 1:10,560

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)



Historical Map - Slice A



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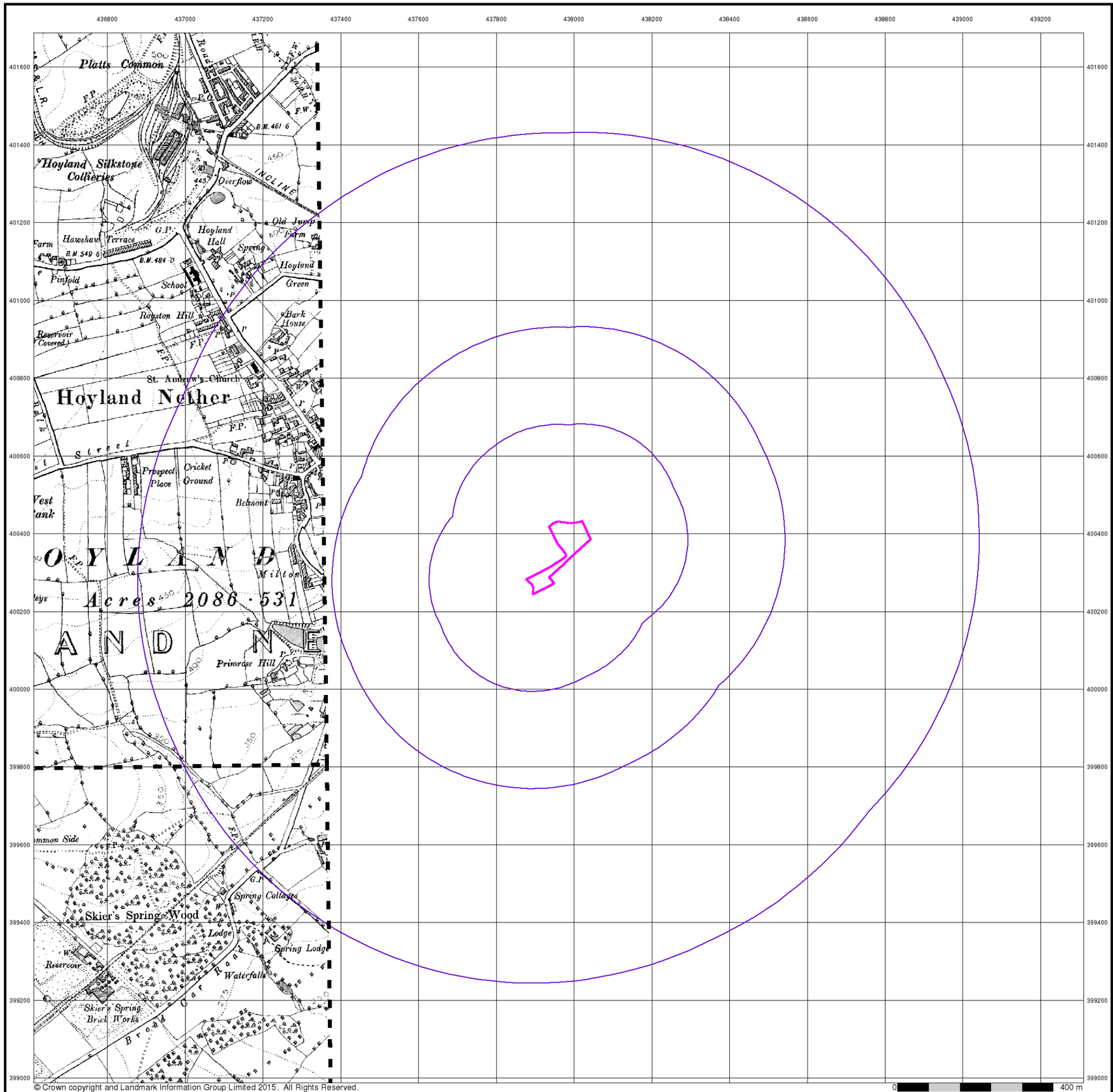

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Envirocheck®

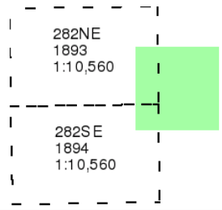
Yorkshire

Published 1893 - 1894

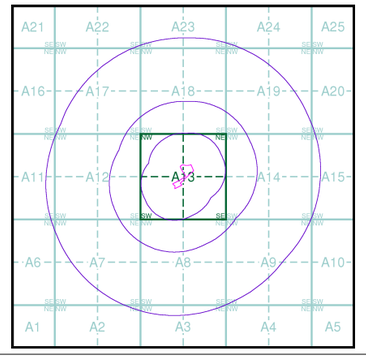
Source map scale - 1:10,560

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

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Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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Fax: 0844 844 9951
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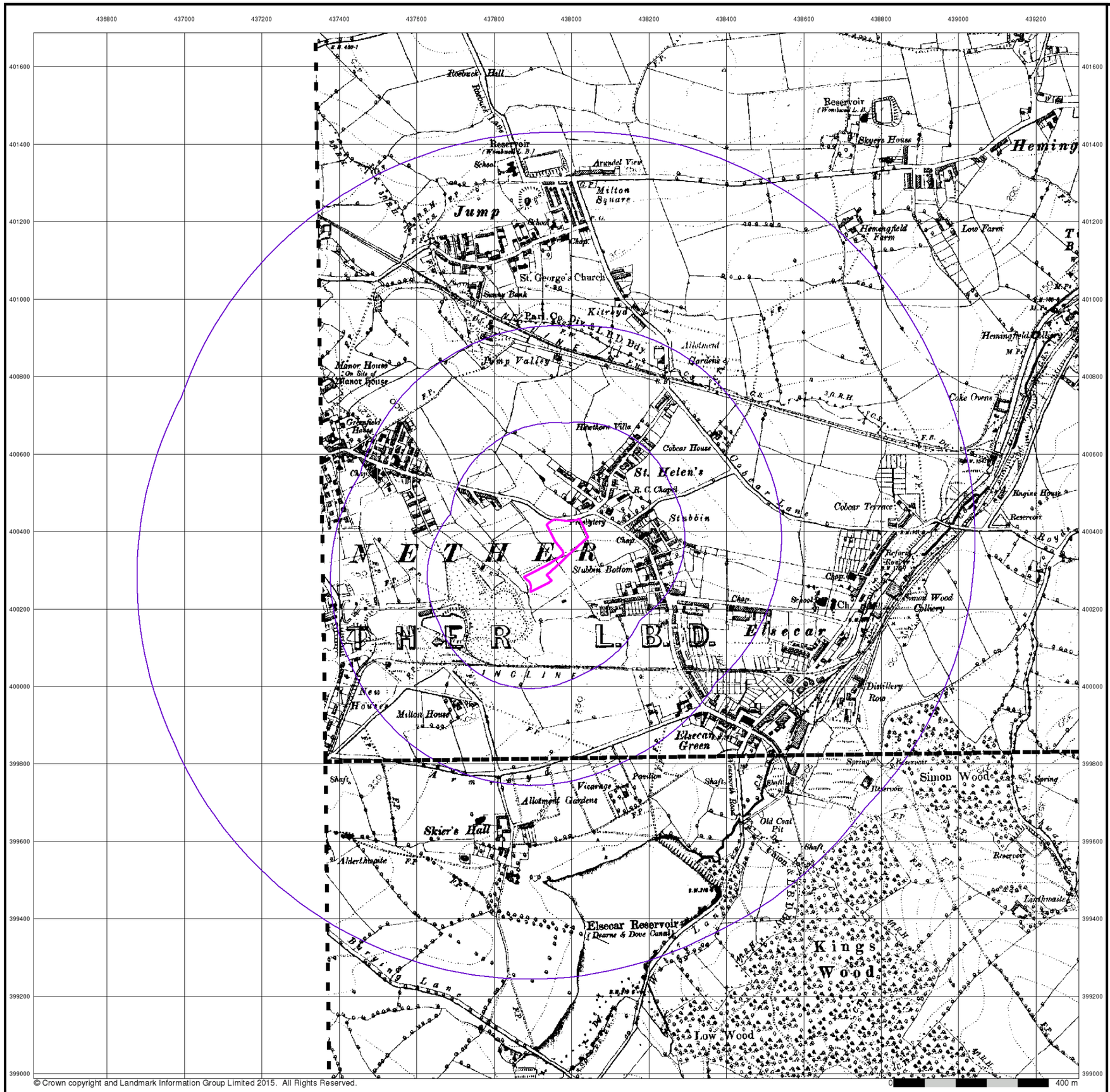

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Yorkshire

Published 1893 - 1894

Source map scale - 1:10,560

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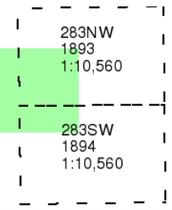

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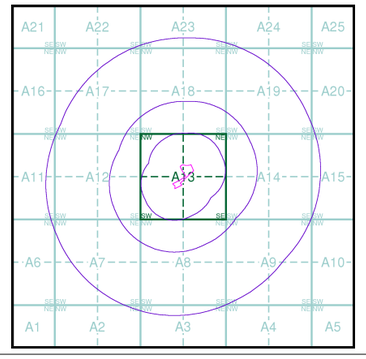

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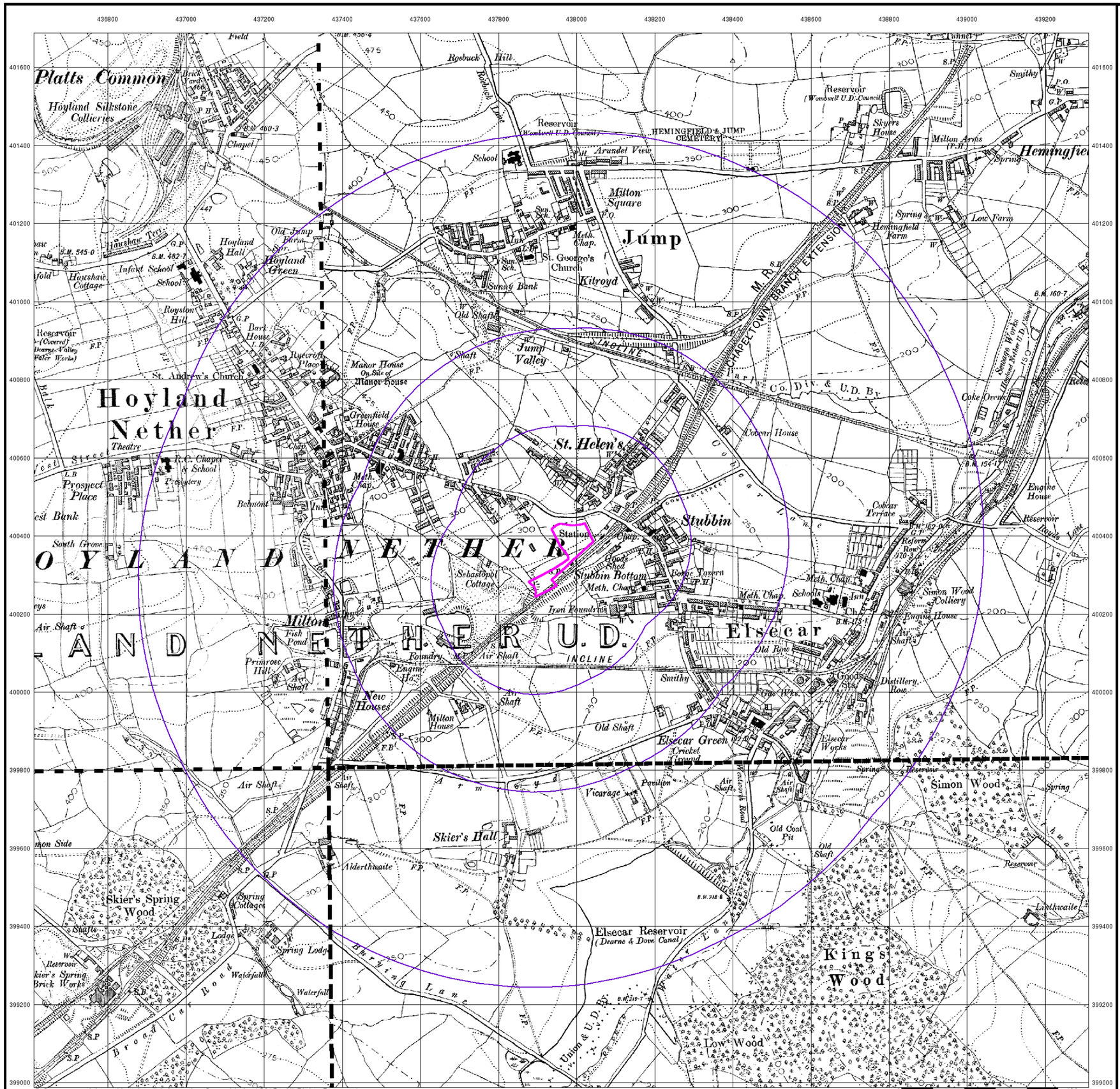
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Platts Common
Hoyland Silkstone Collieries
Hoyland Nether
Jump
Elsecar
Stubbin
Milton Square
Kitroyd
Jump Valley
Hoyland Green
Hoyland Hall
Old Jump Farm
St. George's Church
St. Andrew's Church
Manor House
Greenfield House
St. Helen's
Milton
New Houses
Milton House
Elsecar Green
Skier's Hall
Skier's Spring Wood
Elsecar Reservoir (Dearne & Dove Canal)
Kings Wood
Low Wood
Simon Wood
Hemingfield
Reservoir (Wombwell U.D. Council)
HEMINGFIELD & JUMP CEMETERY
Arundel View
Milton Arms
Hemingfield Farm
Low Farm
Skyers House
Cobcar House
Cobcar Terrace
Simon Wood Colliery
Engine House
Stubbin Bottom
Sebastopol Cottage
Iron Foundries
Goods Shed
Station
Goods Sta.
Gas Wks.
Distillery Row
Old Row
Smithy
Vicarage
Pavilion
Elsecar Works
Old Coal Pit
Old Shaft
Air Shaft
Spring
Reservoir
Lodge
Spring Lodge
Spring Cottages
Waterfall
Alderthwaite
Lanthwaite
Rockingham Road
Broad Carr Road
Bhrylong Lane
M.R. CHAPELTOWN BRANCH EXTENSION
Wombwell U.D. Council
Barnsley Co. Din. & U.D. Bdy
Union & U.D. Bdy
Rotherham Co. Bdy
Meth. Chap.
Sun. Sch.
Chap.
Infant School
School
Brick Yard
Rockingham Colliery
Rockingham Pit
Rockingham Shaft
Rockingham Drift
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Rockingham Incline
Rockingham Old Shaft
Rockingham Old Level
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Rockingham Old Incline
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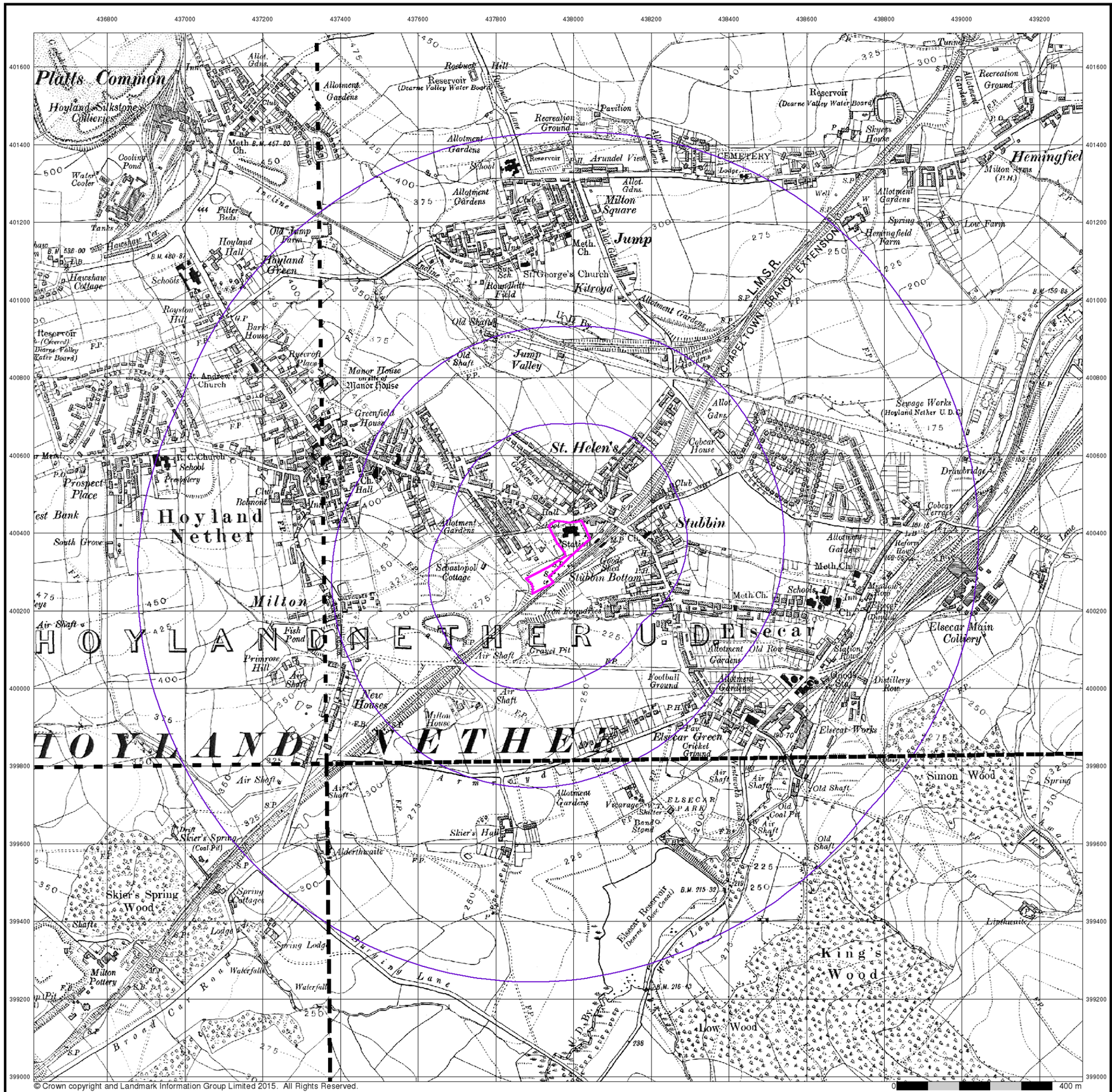

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Yorkshire

Published 1931 - 1932

Source map scale - 1:10,560

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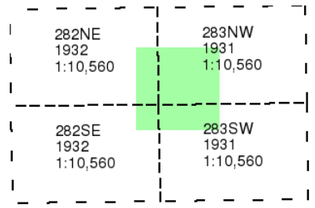
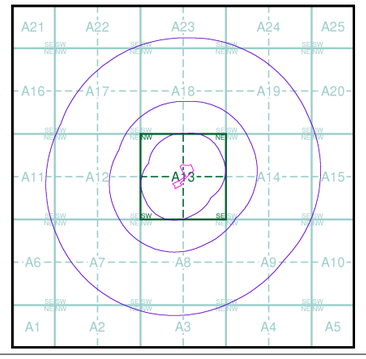
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	84865678_1_1
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National Grid Reference:	437960, 400340
Slice:	A
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Search Buffer (m):	1000

Site Details

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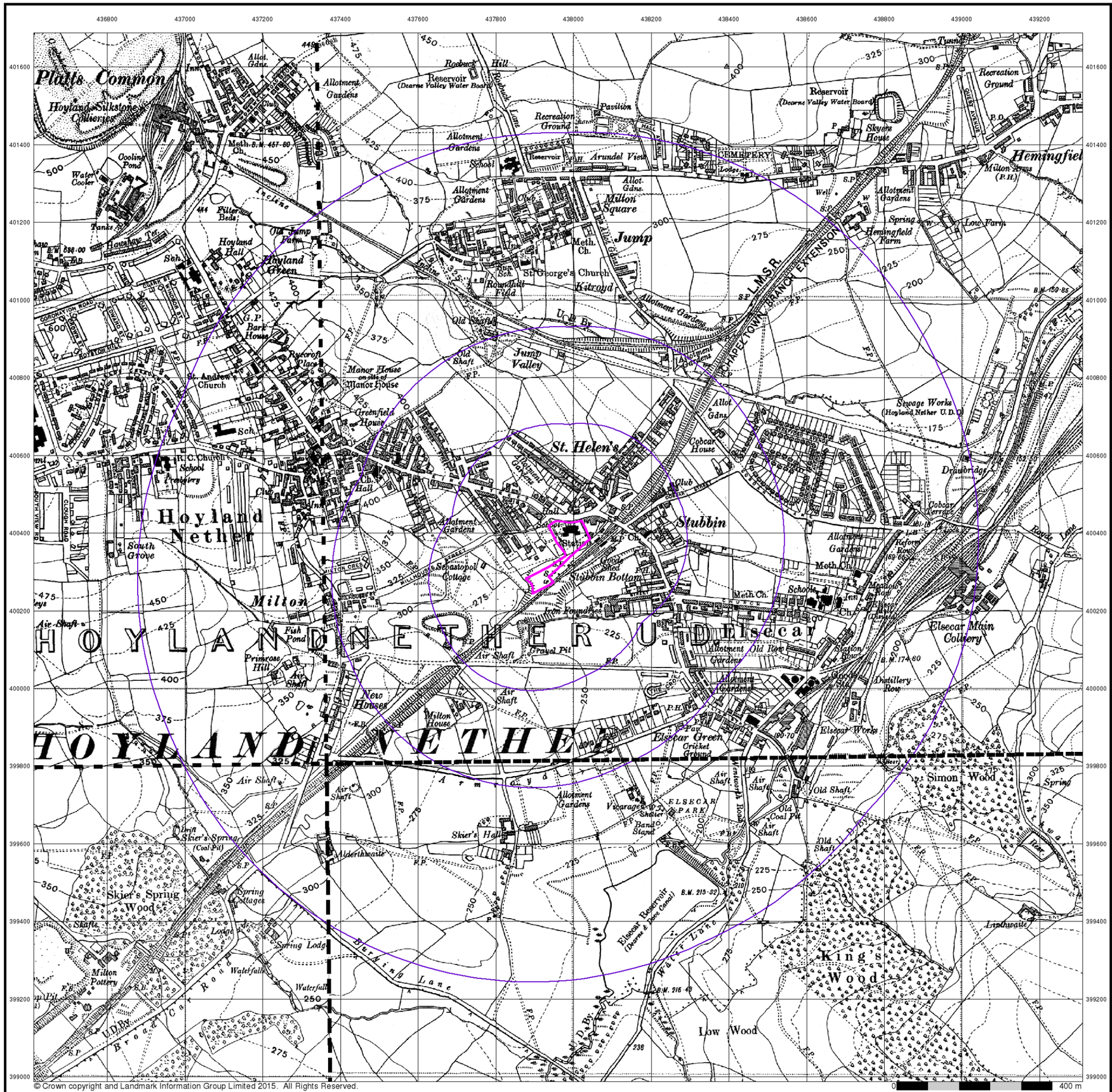
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Platts Common
Hoyland Silkstone Collieries
Hoyland Nether
Hoyland Green
Hoyland Hall
Jump
Millon Square
St. Helen's
Stubbin
Stubbin Bottom
Elsecar
Elsecar Green
Elsecar Main Colliery
Simon Wood
King's Wood
Low Wood
Skier's Spring Wood
Millon
Hemingfield
Low Farm
Sewage Works (Hoyland Nether U.D.C.)
Recreation Ground
Cemetery
Reservoir (Dearne Valley Water Board)
Rockback Hill
Jump Valley
Kitroyd
Greenfield House
Manor House on site of Manor House
St. Andrew's Church
St George's Church
Elsecar Reservoir (Dearne & Dove Canal)
Elsecar Park
Elsecar Works
Distillery Row
Cobcar House
Cobcar Terrace
Drawbridge
Lindwaite
Old Shafts
Old Coal Pit
Gravel Pit
Spring Cottages
Spring Lodge
Waterfall
Milton Pottery
Broad Carr Road
Burning Lane
Water Lane
Rotcher Lane
Royds Lane
Milton Cres.
Millhouses
Sebastopol Cottage
Primrose Hill
Fish Pond
Vicarage
Skier's Hall
Band Stand
Alderthwaite
Meth. Ch.
Chapel
Inn
Club
Sch.
Allotment Gardens
Old Shaft
Air Shaft
Drift
Skier's Spring (Coal Pit)
Iron Found. Ch.
Tunnel
Pavilion
Arundel View
Lodge
Skyers House
Milton Terrace (P.H.)
Hemingfield Farm
Spring
Well
Tanks
Cooling Pond
Water Cooler
Filter Beds
Old Jump Farm
Hayway
Incline
Old Sheffield Road
Roundhill Field
Manchester Road
Chapeltown Branch Extension
L.M.S.R.
Reform Row
Meadow Row
Station
Inn
Ch.
Schools
Elsecar Green Cricket Ground
Simon Wood Spring
Old Shaft
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Air Shaft
Gravel Pit
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Band Stand
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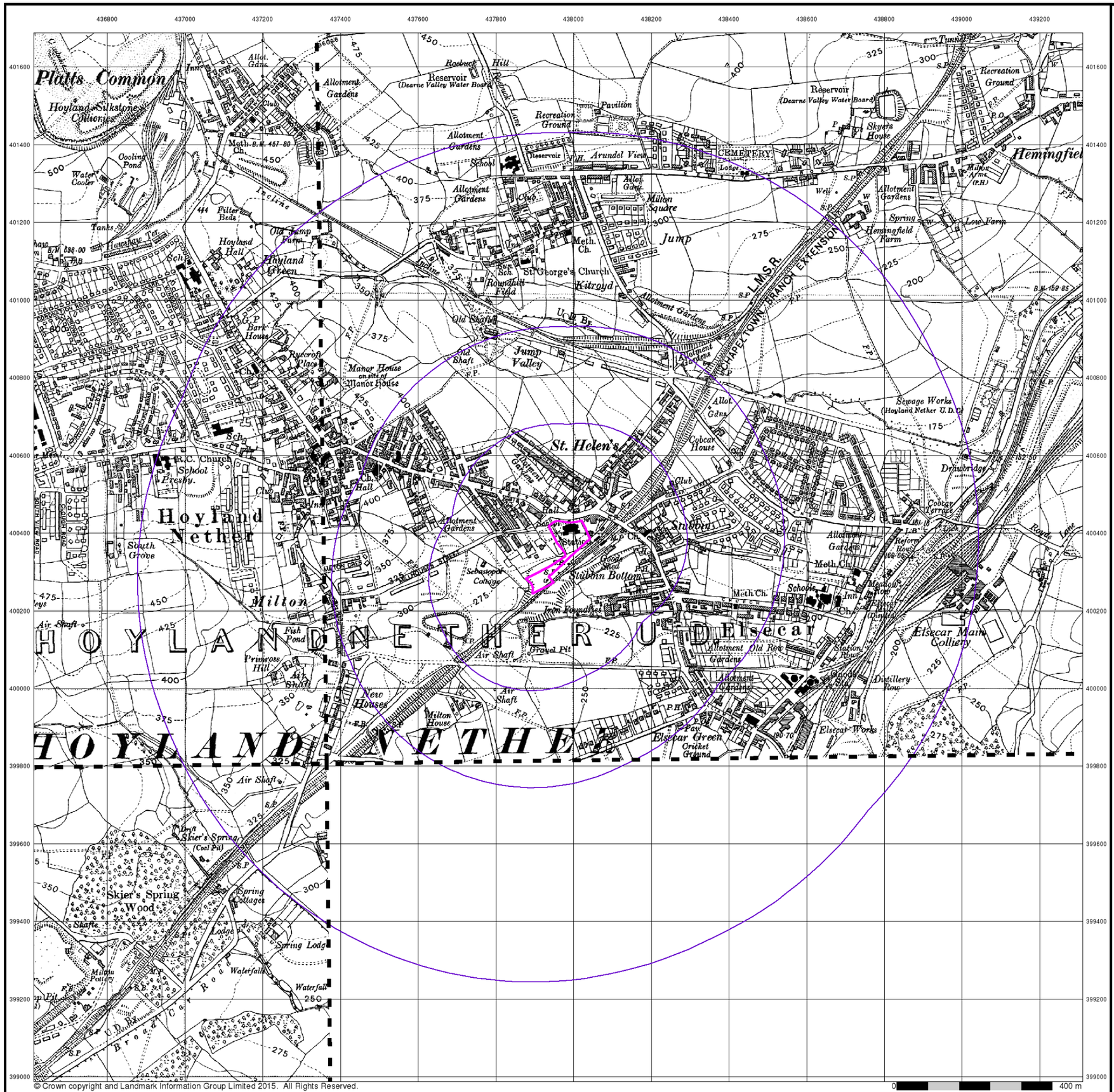
Alderthwaite



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Yorkshire

Published 1948

Source map scale - 1:10,560

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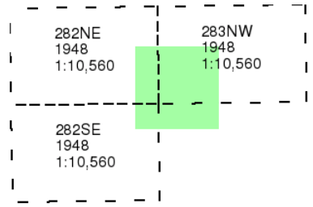
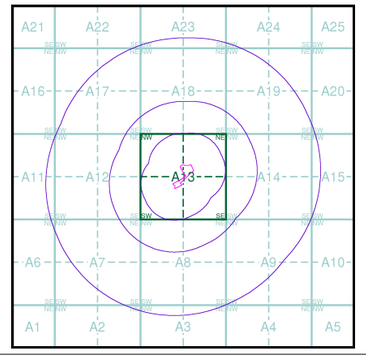
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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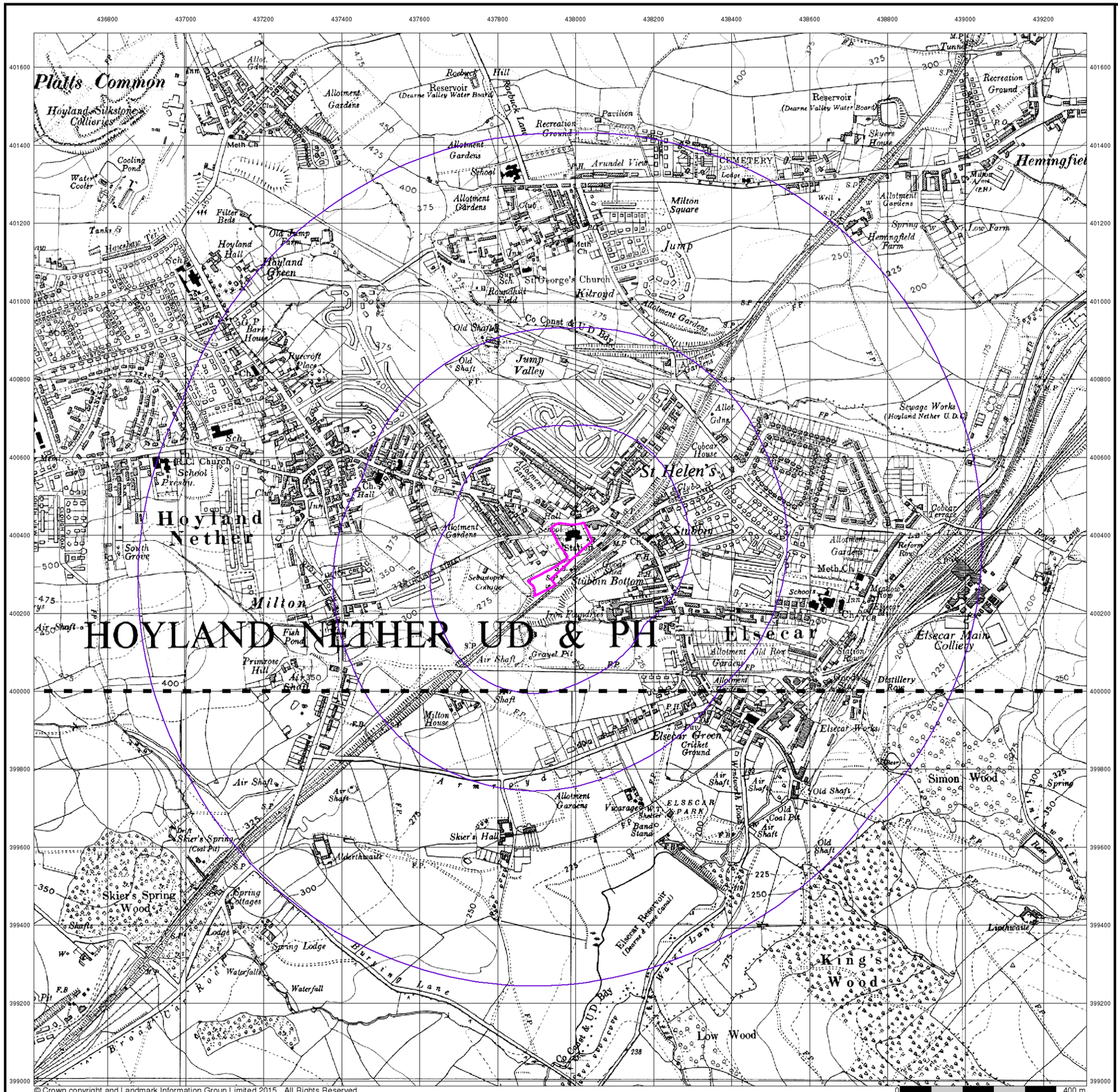
HOYLAND NETHER UD & PH
Platts Common
Hoyland Silkstone Collieries
Hoyland Nether
Milton
Elsecar
St Helen's
Hemingfield
Reservoir (Dearne Valley Water Board)
Recreation Ground
Pavilion
CEMETERY
Milton Square
Jump
Kilroyd
St George's Church
Hoyland Green
Hoyland Hall
Old Jump Farm
Bark House
Ryecroft Place
Jump Valley
Co Const & U D Bdy
Sewage Works (Hoyland Nether U.D.)
R.C. Church
School
Ch. Hall
Stubbin
Stubbin Bottom
Elsecar Main Colliery
Elsecar Green Cricket Ground
Elsecar Works
Simon Wood
Skier's Spring Wood
Spring Cottages
Spring Lodge
Waterfall
Broad Carr Road
Burying Lane
Elsecar Reservoir (Dearne & Dove Canal)
Water Lane
Kings Wood
Low Wood
Primrose Hill
Fish Pond
Milton House
Skier's Hall
ELSECAR PARK
Band Stand
Vicarage
Old Coal Pit
Gravel Pit
Old Shaft
Air Shaft
Shaft
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Club
Allotment Gardens
Recreation Ground
Roebuck Hill
Roebuck Lane
Cooling Pond
Water Cooler
Filter Beds
Tanks
Hayesbank Terr
Arundel View
Skyers House
Low Farm
Hemingfield Farm
Spring
Well
Cubcar House
Cubcar Terrace
Reform Row
Station Row
Distillery Row
Meadow Row
Royds Lane
Lanthwaite
Old Row Allotment Gardens
Allotment
Sebastopol Cottage
Iron Foundries
Station
Good Shed
Goods Yard
Milton Square
Milton Arms (P.H.)
Old Shaffts
Old Shaft
Old Coal Pit
Alderthwaite
Lodge
Waterfall
Armroyd
Elsecar Green
Simon Wood
Kings Wood
Low Wood
Skier's Spring (Coal Pit)
Drift
Shaffts
Pit
Tunnel
Recreation Ground
Allotment Gardens
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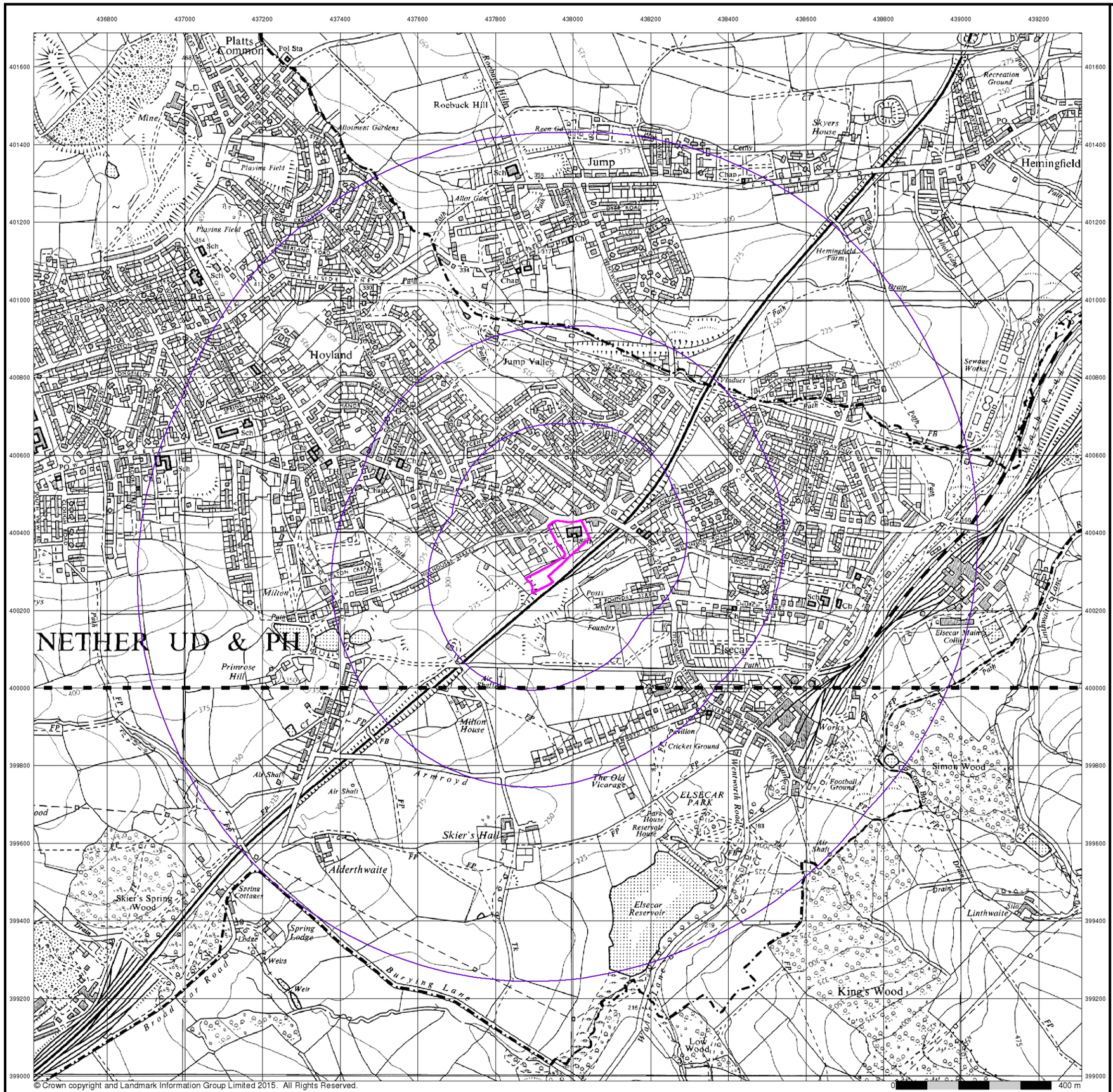

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Ordnance Survey Plan

Published 1965 - 1966

Source map scale - 1:10,000

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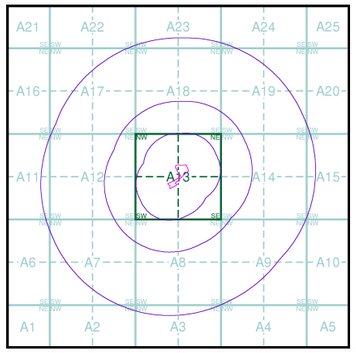
Map Name(s) and Date(s)

SE30SE
1966
1:10,560

SK39NE
1965
1:10,560

Historical Map - Slice A



Order Details

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National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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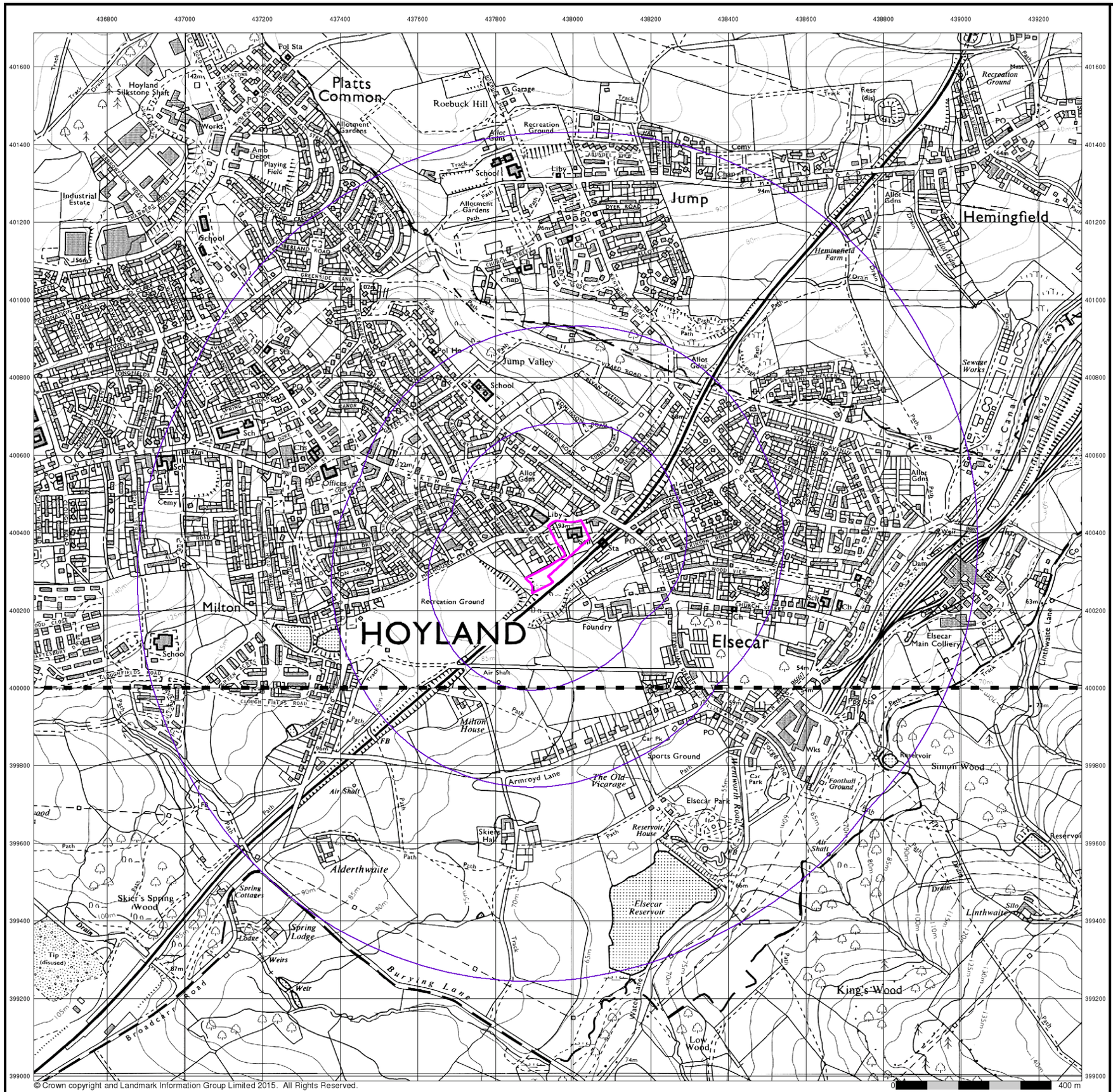
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Jump
Hemingfield
Jump Valley
Milton
Elsecar
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Elsecar Reservoir
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Armroyd Lane
Burying Lane
Broadcar Road
King's Wood
Low Wood
Simon Wood
Sports Ground
Recreation Ground
Foundry
Milton House
Hemmingfield Farm
Linthwaite
Skier's Spring Wood
Spring Lodge
Elsecar Main Colliery
Sewage Works
Industrial Estate
Hoyland Silkstone Shaft
Allotment Gardens
Playing Field
Amb Depot
Recreation Ground
Resr (dis)
Tip (disused)
Foothall Ground
Reservoir House
The Old Vicarage
Milton Cemy
Milton Schoo
Milton Sch
Milton Ch
Milton Liby
Milton PO
Milton Sta
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Milton Sch
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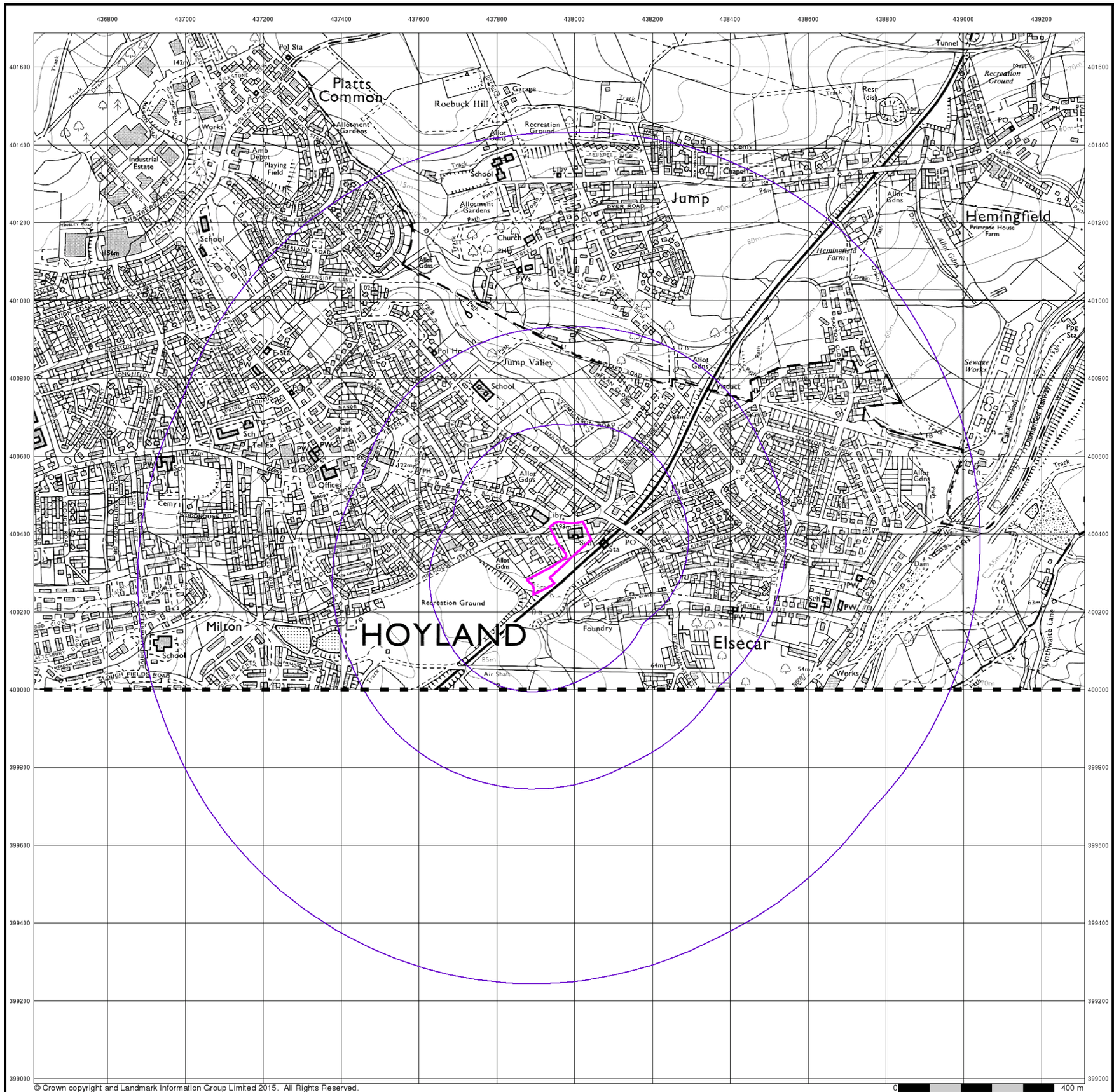
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Platts Common
Roebuck Hill
Jump
Hemingfield
Jump Valley
HOYLAND
Milton
Elsecar
Industrial Estate
Recreation Ground
Allotment Gardens
School
Church
Chapel
Cemy
Liby
Sta
Pol Sta
Offices
Car Park
Tunnel
Viaduct
Sewage Works
Foundry
Air Shaft
Dam
Hemingfield Farm
Primrose House Farm
Recreation Ground
Works
Garage
Amb Depot
Playing Field
Allot Gdns
PO
PH
PWs
Pol Hq
Tel Ex
Sch
Resr (dis)
Ppg Sta
Track
Path
Drain
Weir
Culvert
Canal (disused)
Dearne and Dove Canal
Wentworth Canal
Aldham Lane
Wintwaite Lane
Rigg
Pond
Spr
FB
Ho
Ch
Mkt
Ind Est
Rec Ground
Allot Gdns
Gdns
Cem
Liby
Sch
Tel Ex
Pol Sta
Pol Hq
Ppg Sta
Resr (dis)
Amb Depot
Sewage Works
Primrose House Farm
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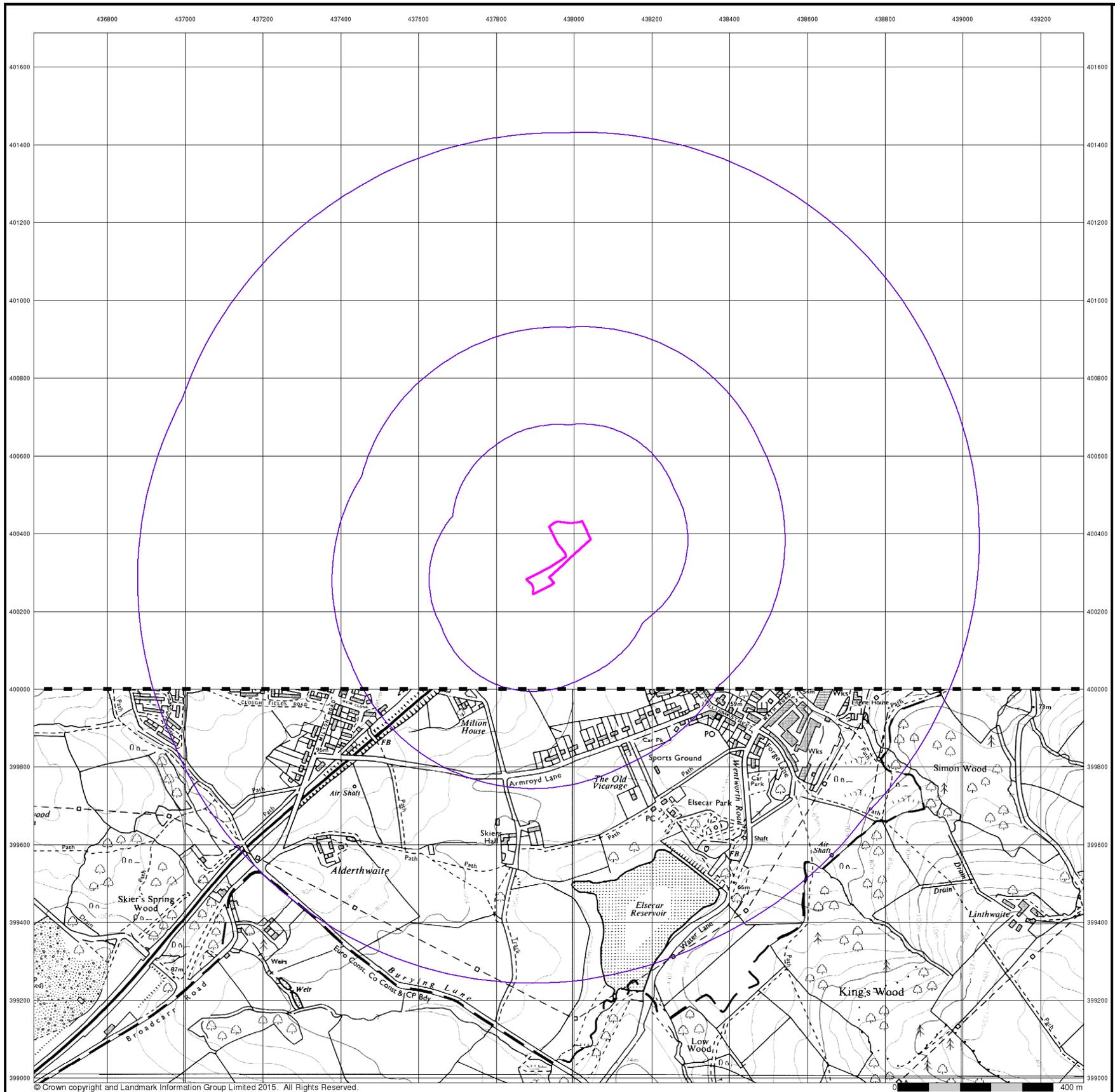

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Ordnance Survey Plan

Published 1991

Source map scale - 1:10,000

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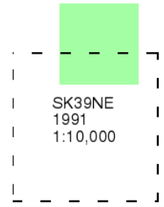
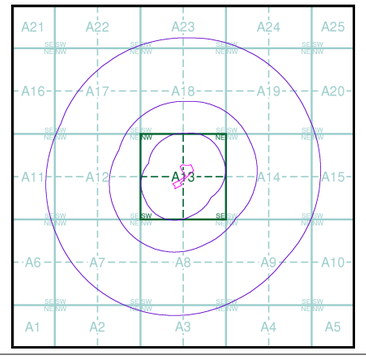


Historical Map - Slice A



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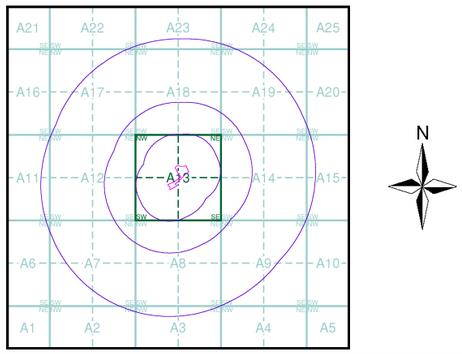
Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Slice A



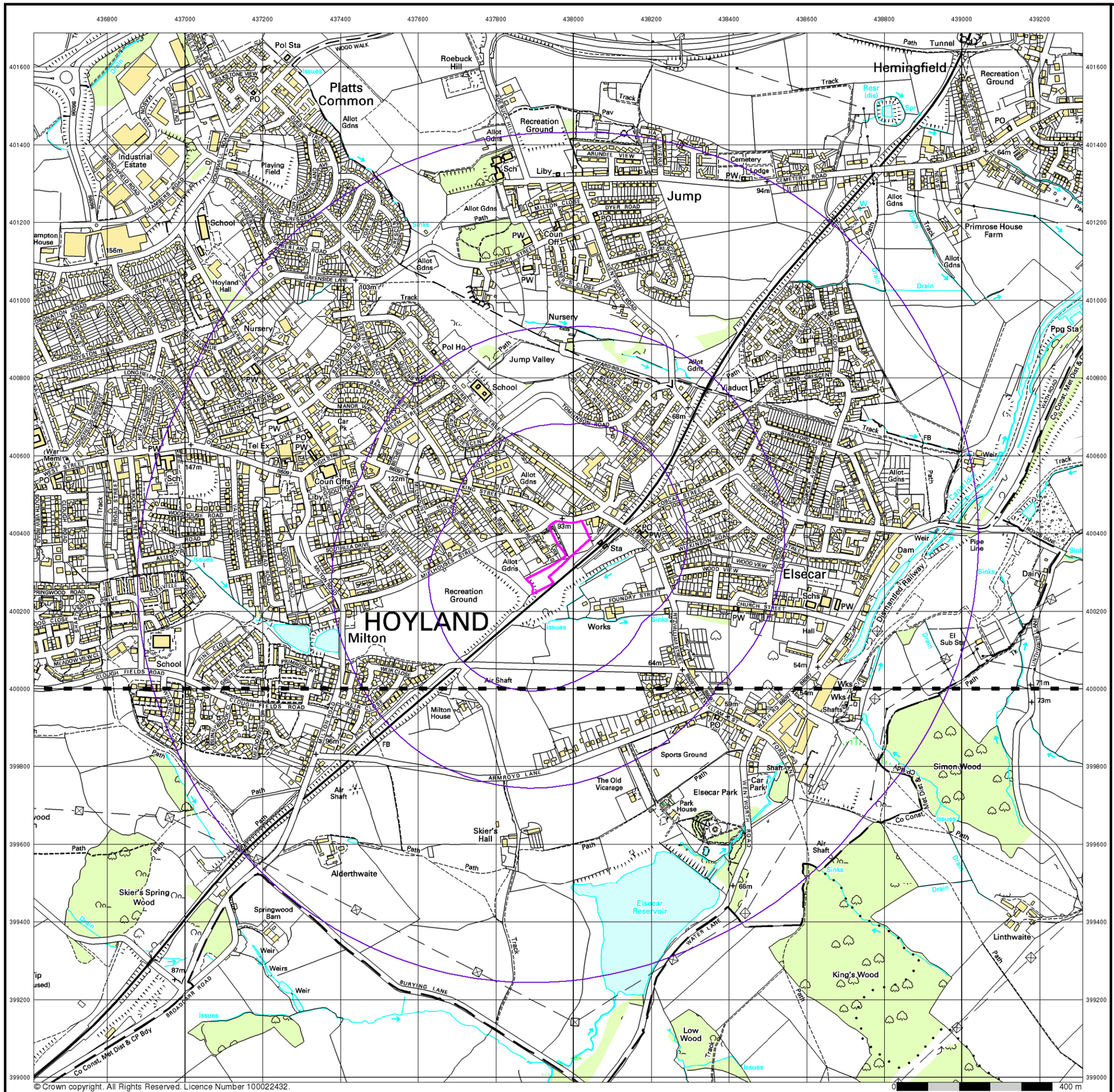
Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

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



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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

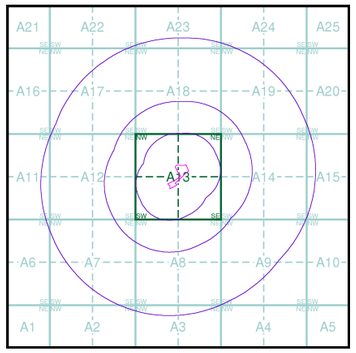
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SE30SE
2000
1:10,000

SK39NE
2000
1:10,000

Historical Map - Slice A



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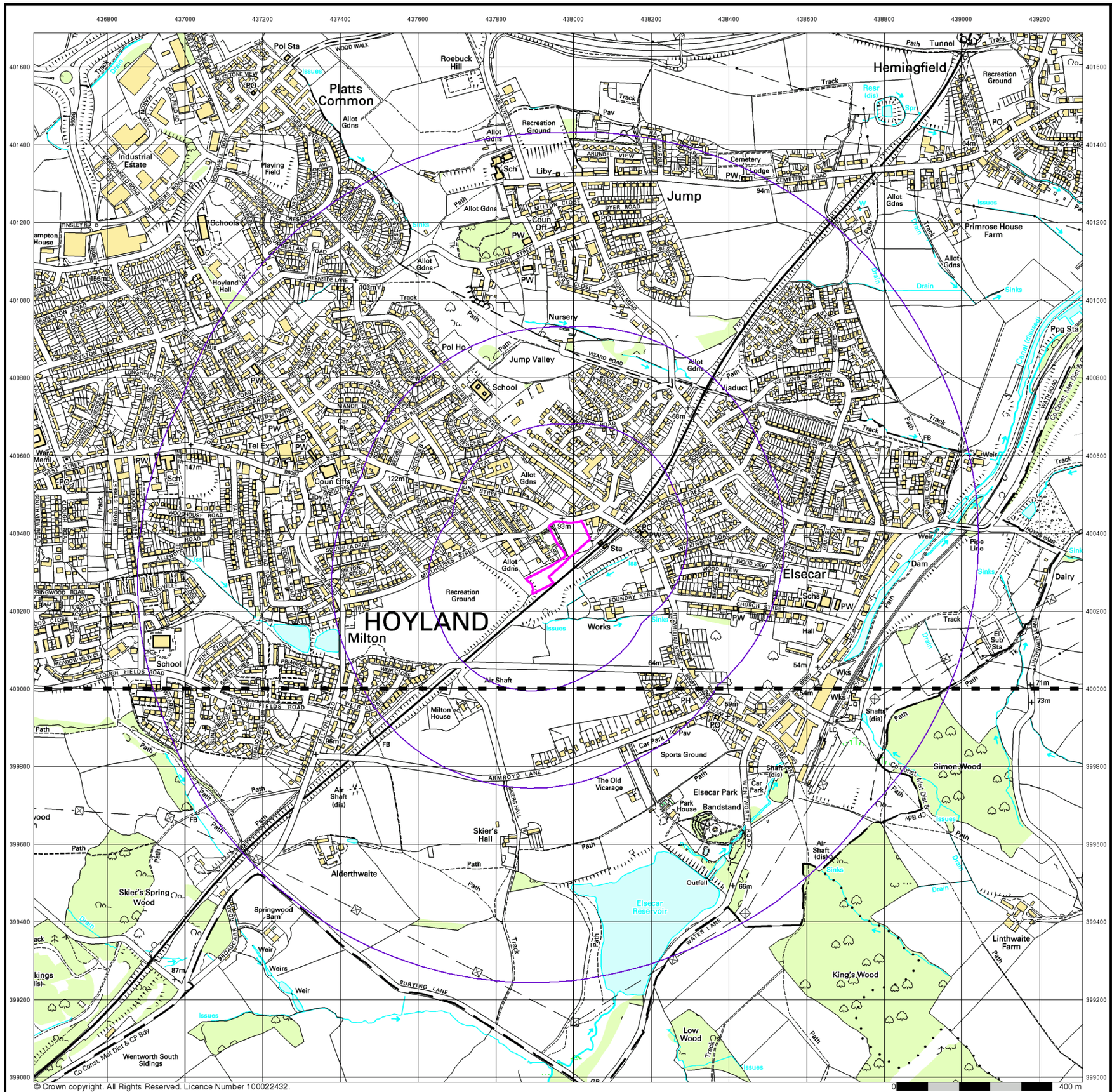

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

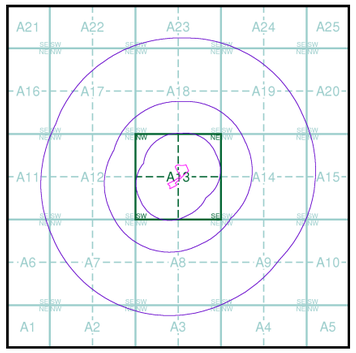
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SE30SE
2006
1:10,000

SK39NE
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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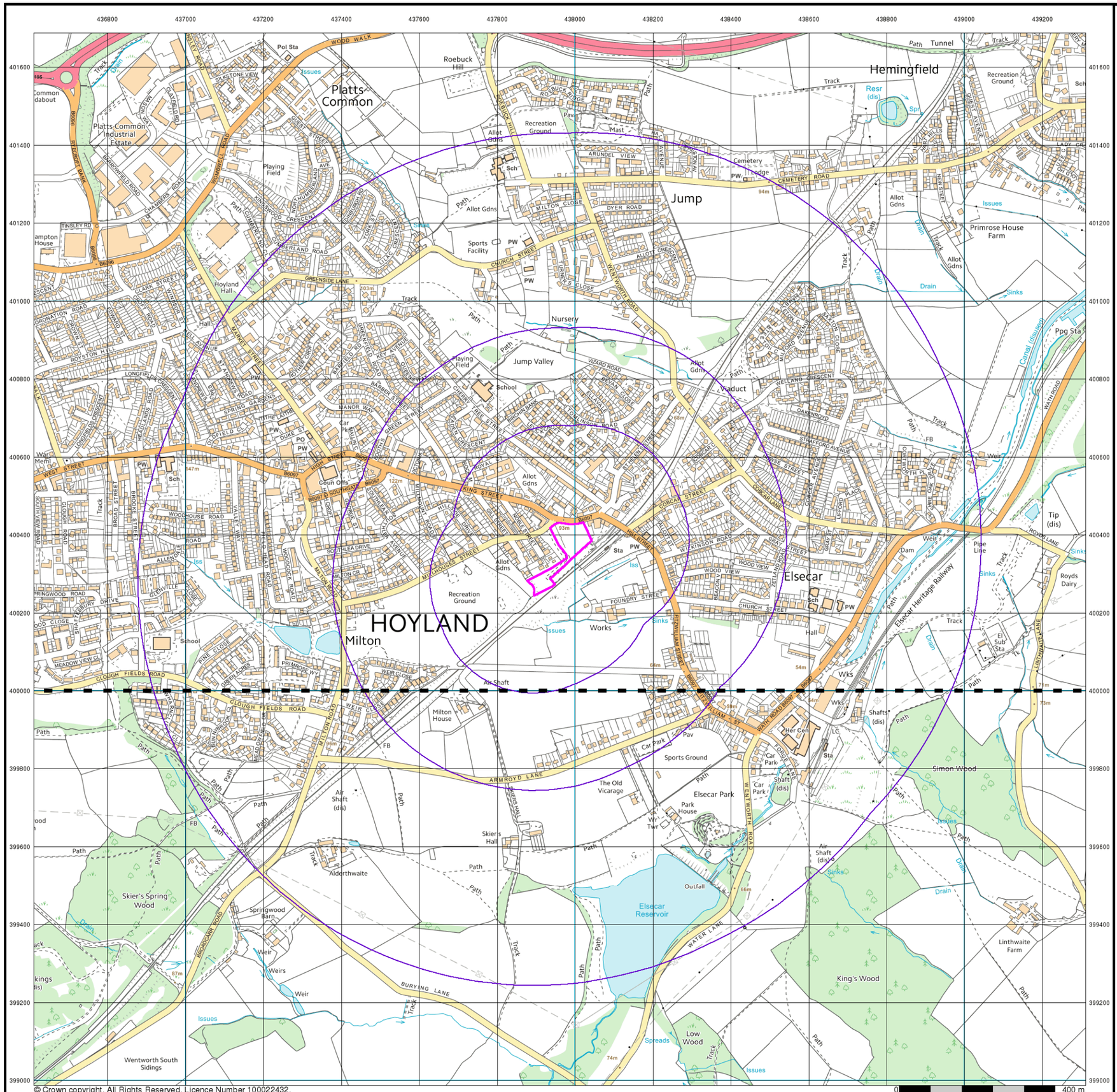

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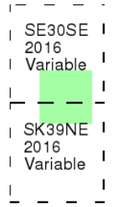
VectorMap Local

Published 2016

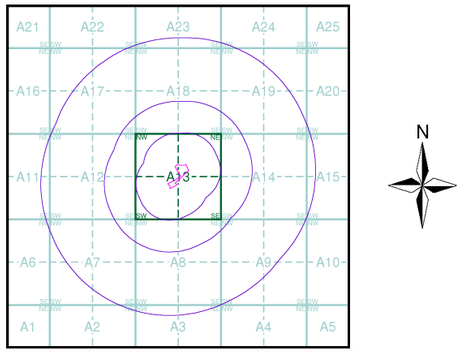
Source map scale - 1:10,000

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:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

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Tel: 0844 844 9952
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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
84865678_1_1

Customer Reference:
39825/PR

National Grid Reference:
437960, 400340

Slice:
A

Site Area (Ha):
0.95

Search Buffer (m):
1000

Site Details:

King Street
Hoyland
BARNSLEY
South Yorkshire
S74 9LL

Client Details:

Miss K Daddo-Langlois
Eastwood & Partners Ltd
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

Contents

Report Section	Page Number
Summary	-
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Waste	18
Hazardous Substances	-
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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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Radon Potential dataset Copyright Notice

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

Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1	3	23
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9				4
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9			2	13
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 12				2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 12			1	1
Water Abstractions	pg 12				2 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 14	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	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				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 14		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 17		Yes		n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 18		1		
Historical Landfill Sites	pg 18		2		3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 19	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 19		1	1	2
Potentially Infilled Land (Non-Water)	pg 19		2	4	15
Potentially Infilled Land (Water)	pg 21		2	2	21
Registered Landfill Sites	pg 22				1
Registered Waste Transfer Sites	pg 22			1	
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 23	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 25		1	3	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 27	Yes	n/a	n/a	n/a
Mining Instability	pg 27	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 27	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 29	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 30		3	6	29
Fuel Station Entries	pg 33				1
Points of Interest - Commercial Services	pg 33		2	6	13
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 35		4		14
Points of Interest - Public Infrastructure	pg 36		2		14
Points of Interest - Recreational and Environmental	pg 37		2		4
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 39				2
Areas of Adopted Green Belt	pg 39			1	1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 39				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 39	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	0	2	437955 400400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	0	2	437900 400300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	2	437955 400300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NE)	0	2	437955 400344
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	0	2	437900 400250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	19	2	437955 400250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	31	2	438050 400344
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	44	2	437900 400200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	45	2	437950 400200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	70	2	437950 400500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	78	2	437800 400344
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	85	2	437800 400250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	173	2	437750 400150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	196	2	437700 400200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	204	2	437750 400100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	242	2	437700 400100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	244	2	437955 400000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	270	2	437955 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	275	2	437700 400050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	290	2	438300 400250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	328	2	437600 400100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	370	2	438050 400800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	383	2	437600 400000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	384	2	438300 400100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	391	2	438150 400800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	419	2	437955 400850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	420	2	437950 400850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	433	2	437850 400850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	474	2	437900 400900
1	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Millhouses Street Cso Millhouses Street, Hoyland, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7953 Permit Version: 1 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: Tributary Of Knoll Beck **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	A13SW (SW)	21	3	437880 400230
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Wentworth Road Jump Cso Wentworth Road, Hoyland, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7959 Permit Version: 1 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Jump Valley Stream **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	A18SE (NE)	443	3	438250 400810
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: King Street Cso Adj No 130 King Street, Hoyland, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7951 Permit Version: 1 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A18SE (NE)	448	3	438290 400790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Cobcar Lane Cso Cobcar Lane (Opp Castle Gardens), Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8385 Permit Version: 1 Effective Date: 31st March 2005 Issued Date: 29th September 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Jump Valley Stream **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	A19SW (NE)	454	3	438300 400790
3	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Church Street Jump Cso Rear Of No 5 Sunny Bank, Hoyland, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8384 Permit Version: 1 Effective Date: 1st March 2005 Issued Date: 1st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Jump Valley Stream **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	A18SW (N)	589	3	437720 400970
4	**Discharge Consents** Operator: British Coal Property Property Type: Undefined Or Other Location: Elsecar Pumping Station Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4905 Permit Version: 1 Effective Date: 21st December 1987 Issued Date: 21st December 1987 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Knoll Beck **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	716	3	438700 400100
5	**Discharge Consents** Operator: Uk Coal Operations Limited Property Type: Coal Extraction, Deep Mine - Abandoned Location: Elsecar Pumping Station, Elsecar, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4905 Permit Version: 1 Effective Date: 21st December 1987 Issued Date: 21st December 1987 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Mineral Workings Discharge Environment: Canal Receiving Water: Dearne And Dove Canal **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	777	3	438700 399970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: E. Evans Property Type: Trade (Unknown/Other) Location: 9, 10, 11 & 12 Distillery Side, Elsecar, Barnsley, South Yoskhire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7724 Permit Version: 1 Effective Date: 4th June 2001 Issued Date: 4th June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	809	3	438800 400100
6	**Discharge Consents** Operator: F. Newton Property Type: Trade (Unknown/Other) Location: 9, 10, 11 & 12 Distillery Side, Elsecar, Barnsley, South Yoskhire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7724 Permit Version: 1 Effective Date: 4th June 2001 Issued Date: 4th June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	809	3	438800 400100
6	**Discharge Consents** Operator: M. Peck Property Type: Trade (Unknown/Other) Location: 9, 10, 11 & 12 Distillery Side, Elsecar, Barnsley, South Yoskhire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7724 Permit Version: 1 Effective Date: 4th June 2001 Issued Date: 4th June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	809	3	438800 400100
6	**Discharge Consents** Operator: P. Goldspink Property Type: Trade (Unknown/Other) Location: 9, 10, 11 & 12 Distillery Side, Elsecar, Barnsley, South Yoskhire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7724 Permit Version: 1 Effective Date: 4th June 2001 Issued Date: 4th June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14SE (E)	809	3	438800 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: No. 8 Distillery Side Property Type: Domestic Property (Multiple) Location: Distillery Cottages, Distillery Row, Elsecar, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4774 Permit Version: 2 Effective Date: 12th June 1992 Issued Date: 12th June 1992 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	817	3	438700 399900
7	**Discharge Consents** Operator: No. 8 Distillery Side Property Type: Domestic Property (Multiple) Location: Distillery Cottages, Distillery Row, Elsecar, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4774 Permit Version: 1 Effective Date: 4th September 1987 Issued Date: 4th September 1987 Revocation Date: 11th June 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Knoll Beck **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	817	3	438700 399900
8	**Discharge Consents** Operator: A Sharp Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: C Butterworth Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: C Swift Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: D Thompson Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: P Lockwood & D Taylor Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: F Flood Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: J Lill Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: J Palmer Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: M Kenyon Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
8	**Discharge Consents** Operator: P Evans & K Margaret Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: P Rudram Property Type: Domestic Property (Multiple) Location: Distillery Side,Distillery Mews And The Forge - Distillery Side, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7581 Permit Version: 1 Effective Date: 6th April 2000 Issued Date: 6th April 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Knoll Beck **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	A9NE (SE)	819	3	438760 399990
9	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Elsecar Cso Track Off Welland Crescent, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7955 Permit Version: 1 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Knoll Beck **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	A14NE (E)	878	3	438920 400360
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Welland Crescent Cso Welland Crescent (Track Off), Elsecar (Adj Footbridge), Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8383 Permit Version: 1 Effective Date: 31st March 2005 Issued Date: 29th September 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Jump Valley Stream **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	A14NE (E)	909	3	438920 400620
11	**Discharge Consents** Operator: British Coal Corporation Property Type: Coal Extraction, Deep Mine Location: Elsecar Main Colliery (Closed) Royds Lane, Elsecar, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3628 Permit Version: 1 Effective Date: 6th September 1982 Issued Date: 6th September 1982 Revocation Date: 8th August 1991 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Knoll Beck **Status:** **Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A15NW (E)	964	3	439000 400500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Local Authority Pollution Prevention and Controls** Name: Lineside Repairs Location: Armroyd Lane, Hoyland, Barnsley, S74 9BZ Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/115 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address	A7NE (SW)	619	4	437422 399844
13	**Local Authority Pollution Prevention and Controls** Name: Brobot Petroleum Ltd Location: 73 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/50 Dated: 24th March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	856	4	437226 400894
13	**Local Authority Pollution Prevention and Controls** Name: Brobot Petroleum Limited Location: A, 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/50 Dated: 24th March 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	856	4	437226 400894
13	**Local Authority Pollution Prevention and Controls** Name: Auto Repairs (Winchglade) Ltd Location: 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/34 Dated: 17th September 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Site Closed** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	856	4	437226 400894
	Nearest Surface Water Feature	A13SW (SW)	12	-	437887 400236
14	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Tributary Of Elsecar Canal Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: No Fish Killed Incident Date: 22nd September 1997 Incident Reference: SH970510 Catchment Area: Dearne 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 (N)	369	3	438000 400800
15	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: 36 Bluebell Close, Hotland, BARNSLEY Authority: Environment Agency, North East Region Pollutant: Sewage - Wrong Connection Note: Elsecar Canal (Disused)/Elsecar Reservoir; Fish Killed: No Information Incident Date: 11th September 1998 Incident Reference: SH980411 Catchment Area: Dearne 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	A12NE (W)	437	3	437500 400500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Hilton Ponds At, Hoyland, BARNSLEY Authority: Environment Agency, North East Region Pollutant: Surcharged Sewage Note: No Fish Killed Incident Date: 6th April 1997 Incident Reference: SH970108 Catchment Area: Dearne Tributaries Receiving Water: Pond/Lake Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	584	3	437300 400200
16	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th July 1989 Incident Reference: 101710 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	A12SE (W)	585	3	437300 400195
17	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Elsecar Canal, Elsecar Heritage Centre, ELSECAR Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Elsecar Canal (Disused)/Elsecar Reservoir; 11-200 Fish Killed Incident Date: Not Supplied Incident Reference: SH980444 Catchment Area: Dearne Tributaries 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)	587	3	438600 400200
18	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 7th September 1993 Incident Reference: 147769 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)	626	3	438600 400100
19	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Foundry Street, ELSECAR Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Elsecar Canal (Disused)/Elsecar Reservoir; 11-200 Fish Killed Incident Date: 21st July 1998 Incident Reference: SH980322 Catchment Area: Don Tributaries Receiving Water: Canal Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	718	3	438700 400095
20	**Pollution Incidents to Controlled Waters** Property Type: Small Holding Location: Unnamed Tributary Of, Elsecar Canal, Rear Of Strafford Avenue Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Fire water / Foam Note: No Fish Killed Incident Date: 11th April 1997 Incident Reference: SH970157 Catchment Area: Dearne 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	A19SE (NE)	821	3	438800 400700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Oils - Other Fuel Oil Note: Not Supplied Incident Date: 18th July 1990 Incident Reference: 112750 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	A9SW (S)	847	3	438300 399500
22	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Oils - Gas Oil Note: Not Supplied Incident Date: 2nd March 1991 Incident Reference: 120214 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	A17SE (NW)	863	3	437300 401000
23	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th July 1989 Incident Reference: 101707 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	A8SE (S)	898	3	438200 399400
24	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Clough's Estate, HOYLAND Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: Fisheries Affected; No Fish Killed Incident Date: 8th September 1997 Incident Reference: SH970490 Catchment Area: Dearne 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	A7NW (SW)	936	3	437100 399750
25	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Combined Sewer Overflow Location: Stream Near, Broad Carr Road Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: No Fish Killed Incident Date: 18th August 1997 Incident Reference: SH970417 Catchment Area: Dearne 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	A7SE (SW)	953	3	437300 399500
26	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 10th July 1991 Incident Reference: 124154 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	A15NW (E)	981	3	439000 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Dearne & Dove Canal Authority: Environment Agency, North East Region Pollutant: Miscellaneous - No Visible Pollution/Nothing Found Note: Not Supplied Incident Date: 6th August 1994 Incident Reference: 152842 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	A3NE (S)	993	3	438200 399300
	River Quality Name: Elsecar_Canal_(Disused)/E GQA Grade: River Quality E Reach: Harley_Knoll_Bec Estimated Distance (km): 4.8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9NW (SE)	787	3	438632 399856
	River Quality Name: Elsecar_Canal_(Disused)/E GQA Grade: River Quality C Reach: Harley_Knoll_Bec Estimated Distance (km): 1.9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9SW (SE)	909	3	438339 399449
28	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 8th October 2002 Incident Reference: 113408 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A18SE (NE)	453	3	438259 400817
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 10th September 2009 Incident Reference: 714753 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A15NW (E)	995	3	439013 400606
30	**Water Abstractions** Operator: British Coal Board Licence Number: 2/27/08/009 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): 1309 Yearly Rate (m3): 363680 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	A14SE (E)	762	3	438800 400300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Water Abstractions** Operator: British Coal Licence Number: 2/27/08/010 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): 14 Yearly Rate (m3): 3410 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	A9NE (SE)	957	3	438800 399800
	Water Abstractions Operator: H J Banks (Mining) Ltd Licence Number: 2/27/08/136 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1560	3	437710 401970
	Water Abstractions Operator: H J Banks (Mining) Ltd Licence Number: 2/27/08/136 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1560	3	437710 401970
	Water Abstractions Operator: H J Banks & Co Ltd Licence Number: 2/27/08/130 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 28th November 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1560	3	437710 401970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: H J Banks & Co Ltd Licence Number: 2/27/08/130 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 28th November 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1560	3	437710 401970
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A13NW (NE)	0	3	437955 400344
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NE)	0	2	437955 400344
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
32	**Detailed River Network Lines** River Type: Tertiary 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 Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	65	3	438016 400268
33	**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 Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (S)	78	3	437921 400169

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Detailed River Network Lines** River Type: Tertiary 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 Name: Not Supplied Water Course Reference: Not Supplied	A13SE (S)	80	3	437988 400180
35	**Detailed River Network Lines** River Type: Tertiary 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 Name: Not Supplied Water Course Reference: Not Supplied	A13SE (S)	99	3	437988 400180
36	**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 Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	164	3	438082 400177
37	**Detailed River Network Lines** River Type: Tertiary 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 Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	216	3	438146 400185
38	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Dearne and Dove Canal (Elsecar Branch) 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 Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	271	3	438232 400191
39	**Detailed River Network Lines** River Type: Tertiary 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 Name: Not Supplied Water Course Reference: Not Supplied	A18SE (N)	439	3	438128 400858

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**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 Name: Not Supplied Water Course Reference: Not Supplied	A18SE (NE)	442	3	438221 400826
41	**Detailed River Network Lines** River Type: Tertiary 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 Name: Knoll Beck Water Course Reference: 3212	A18SE (NE)	449	3	438258 400813
42	**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 Name: Knoll Beck Water Course Reference: 3212	A18SE (NE)	459	3	438292 400801
43	**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 Currently Undefined Management Status: Water Course Name: Knoll Beck Water Course Reference: 3212	A19SW (NE)	460	3	438300 400797
44	**Detailed River Network Lines** River Type: Tertiary 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 Name: Not Supplied Water Course Reference: Not Supplied	A18SE (NE)	461	3	438268 400821
45	**Detailed River Network Lines** River Type: Tertiary 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 Name: Knoll Beck Water Course Reference: 3212	A18SE (NE)	461	3	438268 400821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A13SW (SW)	12	3	437887 400236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**BGS Recorded Landfill Sites** Site Name: Cinder Cottage Site Location: Millhouses St, HOYLAND NETHER, South Yorkshire 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: Moderate	A13SW (SW)	9	-	437872 400253
48	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Millhouses Street, Hoyland Nether, South Yorkshire Name: Cinder Cottage Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31644 First Input Date: 31st August 1972 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1712 Other Ref: Not Supplied	A13SW (SW)	9	3	437872 400253
49	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Hoyland, Barnsley Name: Land Off Milton Road - Millhouses Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04393 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0557 BGS Ref: Not Supplied Other Ref: 4400/(155)	A13SW (SW)	225	3	437662 400220
50	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Jump, Barnsley Name: Wentworth Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04394 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0526 BGS Ref: Not Supplied Other Ref: 4400/(124)	A18SE (NE)	512	3	438257 400885
51	**Historical Landfill Sites** Licence Holder: Capper Pass Limited Location: Hoyland, Barnsley Name: Greenside Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04395 First Input Date: 31st December 1971 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0552 BGS Ref: Not Supplied Other Ref: 4400/(150), 55/19/93/3	A18NW (NW)	683	3	437660 401046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**Historical Landfill Sites** Licence Holder: T and W Brown Location: Market Street, Hoyland, Barnsley Name: Land adjacent to 65 Market Street Operator Location: 65 Market Street, Hoyland, Barnsley Boundary Accuracy: As Supplied Provider Reference: EAHLD04396 First Input Date: 31st May 1985 Last Input Date: 12th February 1993 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0442 BGS Ref: Not Supplied Other Ref: 20B465(39), WD20 B465, 4400/B465	A17SW (NW)	876	3	437237 400943
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	4	437955 400344
	Local Authority Landfill Coverage Name: Rotherham Borough Council - Has supplied landfill data		905	5	438810 399904
53	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 155 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	A13SW (W)	205	4	437679 400232
54	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 124 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	A18SE (NE)	495	4	438262 400864
55	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 150 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	A18SW (N)	607	4	437750 401000
56	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 39 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	A17SE (NW)	830	4	437311 400962
57	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SW (SW)	75	-	437866 400175
58	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SW (SW)	179	-	437832 400077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NE (S)	389	-	438120 399921
60	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SW (SE)	430	-	438384 400123
61	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SW (N)	467	-	437765 400856
62	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SW (NW)	498	-	437672 400841
63	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SW (N)	541	-	437777 400940
64	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	601	-	438318 399799
65	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A12SE (SW)	614	-	437322 400021
66	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7NE (SW)	644	-	437325 399938
67	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NW (N)	648	-	437713 401031
68	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	689	-	438395 399750
69	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NW (N)	722	-	437661 401089
70	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	752	-	438547 399817
71	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SE (E)	773	-	438782 400160
72	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NE (E)	800	-	438797 400648
73	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7NW (SW)	821	-	437239 399749
74	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NW (N)	835	-	437888 401262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NE (E)	849	-	438845 400662
76	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	852	-	438608 399734
77	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SE (SE)	997	-	438647 399563
78	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	189	-	437717 400180
79	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A13SE (SE)	205	-	438143 400200
80	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SE (SW)	431	-	437473 400134
81	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (W)	475	-	437404 400251
82	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A12SE (W)	531	-	437363 400154
83	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SW (NE)	564	-	438495 400736
84	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1905	A8SW (S)	605	-	437768 399652
85	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SW (S)	700	-	437734 399563
86	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	707	-	437326 400772
87	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12SW (W)	707	-	437179 400177
88	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1905	A8SE (S)	715	-	438217 399606
89	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SE (S)	717	-	438229 399610
90	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A9NW (SE)	728	-	438631 399956
91	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A7NW (SW)	735	-	437206 399986
92	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NW (W)	812	-	437126 400588
93	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9SW (SE)	815	-	438347 399560
94	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1906	A7SE (SW)	845	-	437326 399619

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	847	-	437331 401010
96	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A7SE (SW)	862	-	437299 399621
97	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18NW (N)	901	-	437883 401328
98	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1855	A17NE (NW)	934	-	437320 401120
99	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9NE (SE)	943	-	438813 399841
100	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A9NE (SE)	961	-	438765 399752
101	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A15NW (E)	979	-	439015 400502
102	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17NE (NW)	995	-	437289 401173
103	**Registered Landfill Sites** Licence Holder: T & W Brown Licence Reference: WD20 B 465 MOD 1 Site Location: 65 Market Street, Hoyland, BARNSLEY, South Yorkshire, S74 0ET Licence Easting: 437270 Licence Northing: 400950 Operator Location: As Site Address 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) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1985 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Builders Rubble Construction And Demolition Wastes Excav,N Waste, Soil, Subsoil Prohibited Waste: All Forms Of Asbestos Liq/Slurry In Drum/Cont'Rs > 4 L Cap'Y	A17SW (NW)	854	3	437270 400950
104	**Registered Waste Transfer Sites** Licence Holder: Barnsley M.B.C. Licence Reference: WD 5 B 1 Site Location: Milton Road, Hoyland, Barnsley, South Yorkshire Operator Location: Cleansing Div. Smithies La.Depot, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Civic Amenity/Refuse Amenity Waste	A12SE (SW)	420	3	437500 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (NE)	0	2	437955 400344
	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: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NE)	0	2	437955 400344
	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: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	69	2	437955 400500
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	249	2	437849 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	569	2	438000 401000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	569	2	437955 401000
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	583	2	437814 399666

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 Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	677	2	438373 401010
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	744	2	438500 401000
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	761	2	438000 401192
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	795	2	438500 401066
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	813	2	438074 401243
	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: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (E)	813	2	438811 400651

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 Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	820	2	437914 401250
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	846	2	438000 399394
	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: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	878	2	438500 401167
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	931	2	438500 401229
	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: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15NW (E)	994	2	439000 400651
105	**BGS Recorded Mineral Sites** Site Name: Stubbin Bottom Gravel Pit Location: , Elsecar, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108134 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13SW (S)	127	2	437878 400118

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**BGS Recorded Mineral Sites** Site Name: Halfway House Location: , Jump Valley, Jump, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108130 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Kent'S Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (N)	461	2	437768 400851
106	**BGS Recorded Mineral Sites** Site Name: Jump Pit Location: , Jump Valley, Jump, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108132 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (N)	500	2	437775 400896
107	**BGS Recorded Mineral Sites** Site Name: Jump Pit Location: , Jump Valley, Jump, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108133 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	491	2	437675 400834
108	**BGS Recorded Mineral Sites** Site Name: Jump Pit Quarry Location: , Jump Valley, Jump, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108131 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Kent'S Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	643	2	437712 401025
109	**BGS Recorded Mineral Sites** Site Name: Halfway House Location: , Jump Valley, Jump, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108129 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Kent'S Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	724	2	437667 401094
110	**BGS Recorded Mineral Sites** Site Name: Simon Woood Colliery Location: , Elsecar, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108159 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	785	2	438815 400242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	**BGS Recorded Mineral Sites** Site Name: Cobear Wood Gravel Pit Location: , Elsecar, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108158 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A14NE (E)	824	2	438816 400670
112	**BGS Recorded Mineral Sites** Site Name: Elsecar Main Colliery Location: , Elsecar, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108160 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A15SW (E)	991	2	439028 400283
	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 (NE)	0	6	437955 400344
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (NE)	0	-	437955 400344
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	142	2	437840 400521
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	2	437959 400334
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	30	2	438008 400288
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344

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	A8NW (S)	244	2	437955 400000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	438003 400428
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	34	2	437943 400227
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	68	2	437875 400391
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	68	2	438005 400235
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	69	2	437873 400440
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	69	2	437999 400227
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	76	2	438044 400284
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	77	2	438050 400289
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	205	2	438235 400314
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	233	2	438045 400663
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	234	2	437979 400663
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	2	437959 400334
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	30	2	438008 400288
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	88	2	437912 400509
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	168	2	438142 400548
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	207	2	437882 400624
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	2	437948 400290
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	2	437959 400381
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	34	2	437910 400204
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	88	2	437912 400509
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	168	2	438142 400548
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NW (S)	244	2	437955 400000
	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 (N)	0	2	437955 400376
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344
	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 (N)	0	2	437955 400376
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	437955 400344

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**Contemporary Trade Directory Entries** Name: Elsecar Motor Company Location: Warings Yard, Hill Street, Elsecar, Barnsley, South Yorkshire, S74 8EL Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	158	-	438178 400304
114	**Contemporary Trade Directory Entries** Name: B & F Batteries & Tyres Ltd Location: 2, Cobcar Street, Elsecar, Barnsley, South Yorkshire, S74 8DA Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	184	-	438203 400475
115	**Contemporary Trade Directory Entries** Name: M D Patterns Location: Wilkinson Road, Elsecar, Barnsley, South Yorkshire, S74 8JT Classification: Pattern Makers - Industrial **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	218	-	438255 400338
116	**Contemporary Trade Directory Entries** Name: We R Cleaning Ltd Location: 93, King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LB Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	293	-	437662 400516
117	**Contemporary Trade Directory Entries** Name: Stewarts Fabrications Location: 2, Beacon View, Elsecar, Barnsley, South Yorkshire, S74 8JA Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	329	-	438350 400266
118	**Contemporary Trade Directory Entries** Name: Seal-A-Wheel Location: 10, Southlea Avenue, Hoyland, Barnsley, South Yorkshire, S74 9LD Classification: Tyre Repairs & Retreading **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	361	-	437551 400435
119	**Contemporary Trade Directory Entries** Name: Stephensons Auto Repairs Location: 5, Booth Street, Hoyland, Barnsley, South Yorkshire, S74 9JX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	462	-	437518 400611
119	**Contemporary Trade Directory Entries** Name: Hoyland Mot Centre Location: 5, Booth Street, Hoyland, Barnsley, South Yorkshire, S74 9JX Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	462	-	437518 400611
120	**Contemporary Trade Directory Entries** Name: Cascade Water Systems Location: 35a, King Street, Hoyland, Barnsley, South Yorkshire, S74 9JU Classification: Water Softeners **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	463	-	437498 400564
120	**Contemporary Trade Directory Entries** Name: Ace Wallpapers Location: 21, King Street, Hoyland, Barnsley, South Yorkshire, S74 9JU Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	507	-	437458 400582
121	**Contemporary Trade Directory Entries** Name: Fastweld Ltd Location: 7, Woodcock Road, Hoyland, BARNSLEY, South Yorkshire, S74 9AY Classification: Engineers - General **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	586	-	437293 400274
122	**Contemporary Trade Directory Entries** Name: Barnsley Brewing Co Ltd Location: 2, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Brewers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	629	-	438491 399944

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Contemporary Trade Directory Entries** Name: Elsecar Garden Products Location: Elsecar Heritage Centre, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Garden & Patio Furniture Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A9NW (SE)	630	-	438515 399969
122	**Contemporary Trade Directory Entries** Name: The Glass Menagerie Location: Unit B9E,Elsecar Heritage Centre,Wath Rd, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Stained Glass Designers & Producers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	649	-	438533 399959
122	**Contemporary Trade Directory Entries** Name: Elsecar Heritage Railway Location: Elsecar Heritage Centre, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Railways **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	661	-	438533 399942
123	**Contemporary Trade Directory Entries** Name: D & P Hirst Location: 1, West Street, Hoyland, Barnsley, South Yorkshire, S74 9AG Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	659	-	437283 400563
124	**Contemporary Trade Directory Entries** Name: G & G Engineering & Mechanical Services Ltd Location: Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HW Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	665	-	438576 399987
124	**Contemporary Trade Directory Entries** Name: Ticketmart Location: Elsecar Workshops, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	692	-	438582 399952
125	**Contemporary Trade Directory Entries** Name: E R Fire Protection Services Ltd Location: 104a, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8JF Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	692	-	438728 400291
126	**Contemporary Trade Directory Entries** Name: Hot Metal Press Location: Museum Works,Elscar Workshops,Wath Rd, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	710	-	438726 400194
126	**Contemporary Trade Directory Entries** Name: Kansa Location: The Flour Mill, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HW Classification: Lighting Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	737	-	438759 400213
126	**Contemporary Trade Directory Entries** Name: Kansa Craft Location: The Flour Mill, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HW Classification: Stained Glass Designers & Producers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	737	-	438759 400213
127	**Contemporary Trade Directory Entries** Name: Dawson Food Service Equipment Location: Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Catering Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	725	-	438644 399980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	**Contemporary Trade Directory Entries** Name: Cooperson Transport Location: Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	725	-	438644 399980
128	**Contemporary Trade Directory Entries** Name: Prestige Car Sales Location: Market St, Hoyland, Barnsley, South Yorkshire, S74 9QR Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	736	-	437274 400736
129	**Contemporary Trade Directory Entries** Name: Mion Electronics Plc Location: Valley Way, Hoyland, Barnsley, South Yorkshire, S74 9AN Classification: Electronic Equipment - Manufacturers & Assemblers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	769	-	437130 400458
130	**Contemporary Trade Directory Entries** Name: Allendale Building Supplies Ltd Location: 22, West Street, Hoyland, BARNSLEY, South Yorkshire, S74 9AG Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	774	-	437157 400561
131	**Contemporary Trade Directory Entries** Name: New Look Facias Location: 23, Hambleton Close, Elsecar, Barnsley, South Yorkshire, S74 8DS Classification: Cladding Suppliers & Installers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	776	-	438542 401007
132	**Contemporary Trade Directory Entries** Name: Charles Braham & Sons Ltd Location: 139, Clough Fields Road, Hoyland, Barnsley, South Yorkshire, S74 0ER Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	783	-	437153 399988
133	**Contemporary Trade Directory Entries** Name: Auto Repairs Winchglade Ltd Location: 73, Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	857	-	437226 400894
133	**Contemporary Trade Directory Entries** Name: Akeister & Faulkner Location: 65 Market St, Hoyland, Barnsley, S Yorkshire, S74 0ET Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	857	-	437225 400894
133	**Contemporary Trade Directory Entries** Name: Gls Car Sales Ltd Location: 73, Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	857	-	437226 400894
133	**Contemporary Trade Directory Entries** Name: Hoyland Mot Service Centre Location: 73, Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	857	-	437226 400894
134	**Contemporary Trade Directory Entries** Name: Hoyland Mot & Service Centre Ltd Location: Below the Jet Station,Market St, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	885	-	437172 400862
134	**Contemporary Trade Directory Entries** Name: Brobot Petroleum Ltd Location: Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	901	-	437175 400898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**Contemporary Trade Directory Entries** Name: Vanquish Uk Car Centre Location: 73, Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	901	-	437175 400898
134	**Contemporary Trade Directory Entries** Name: Hoyland M O T Service Centre Ltd Location: 73, Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	901	-	437175 400898
135	**Contemporary Trade Directory Entries** Name: Rat Tec Solutions Ltd Location: 111, Shaftesbury Drive, Hoyland, Barnsley, South Yorkshire, S74 0HS Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (W)	937	-	436948 400171
136	**Fuel Station Entries** Name: Hks Hoyland Location: 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Brand: JET Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	901	-	437175 400898
137	**Points of Interest - Commercial Services** Name: Eslecar Motor Co Location: Warings Yard, Hill Street, Elsecar, Barnsley, S74 8EL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	158	7	438178 400304
137	**Points of Interest - Commercial Services** Name: Elsecar Motor Location: Warings Yard, Hill Street, Elsecar, Barnsley, S74 8EL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	158	7	438178 400304
138	**Points of Interest - Commercial Services** Name: Stewarts Fabrications Location: 2 Beacon View, Elsecar, Barnsley, S74 8JA Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A14SW (E)	329	7	438350 400266
138	**Points of Interest - Commercial Services** Name: Stewarts Fabrications Location: 2 Beacon View, Elsecar, Barnsley, S74 8JA Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A14SW (E)	329	7	438350 400266
139	**Points of Interest - Commercial Services** Name: Crown Garage Elsecar Ltd Location: 34 Fitzwilliam Street, Elsecar, Barnsley, S74 8EA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	423	7	438307 400047
140	**Points of Interest - Commercial Services** Name: Stephensons Auto Repairs Location: 5 Booth Street, Hoyland, Barnsley, S74 9JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NW)	462	7	437518 400611
140	**Points of Interest - Commercial Services** Name: Hoyland MOT Centre Location: 5 Booth Street, Hoyland, Barnsley, S74 9JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NW)	462	7	437518 400611
140	**Points of Interest - Commercial Services** Name: Stephenson's Auto Repairs Location: Hoyland M O T Centre 5, Booth Street, Hoyland, Barnsley, S74 9JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NW)	462	7	437518 400611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	**Points of Interest - Commercial Services** Name: Wentworth Road Service Station Location: Wentworth Road, Jump, Barnsley, S74 0JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	527	7	438160 400940
142	**Points of Interest - Commercial Services** Name: Lineside Repairs Location: Armroyd Lane, Hoyland, Barnsley, S74 9BZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	619	7	437422 399844
142	**Points of Interest - Commercial Services** Name: Lineside Repairs Location: Armroyd Lane, Hoyland, Barnsley, S74 9BZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	619	7	437422 399844
143	**Points of Interest - Commercial Services** Name: Barnsley Superfit Location: 11a Market Street, Hoyland, Barnsley, S74 9QR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	678	7	437333 400724
143	**Points of Interest - Commercial Services** Name: Barnsley Superfit Location: 11a Market Street, Hoyland, Barnsley, S74 9QR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	678	7	437333 400724
144	**Points of Interest - Commercial Services** Name: Charles Braham & Sons Ltd Location: 139 Clough Fields Road, Hoyland, Barnsley, S74 0ER Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (SW)	783	7	437153 399988
144	**Points of Interest - Commercial Services** Name: Charles Braham & Sons Location: 139 Clough Fields Road, Hoyland, Barnsley, S74 0ER Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (SW)	783	7	437153 399988
145	**Points of Interest - Commercial Services** Name: Motorite Garage Services Location: Wath Road, Elsecar, Barnsley, S74 8HW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	787	7	438827 400315
146	**Points of Interest - Commercial Services** Name: Auto Repairs Winchglade Ltd Location: 73 Market Street, Hoyland, Barnsley, S74 0ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	857	7	437226 400894
146	**Points of Interest - Commercial Services** Name: Hoyland MOT Service Centre Location: 73 Market Street, Hoyland, Barnsley, S74 0ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	857	7	437226 400894
146	**Points of Interest - Commercial Services** Name: Auto Repairs Winchglade Ltd Location: 65a Market Street, Hoyland, Barnsley, S74 0ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	857	7	437226 400894
146	**Points of Interest - Commercial Services** Name: Hoyland M O T Service Centre Ltd Location: 73 Market Street, Hoyland, Barnsley, S74 0ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	901	7	437175 400898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	**Points of Interest - Commercial Services** Name: T & H Transport Location: 27 Woodhouse Road, Hoyland, Barnsley, S74 9AW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NW (W)	947	7	436951 400474
148	**Points of Interest - Manufacturing and Production** Name: Cardigan Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	147	7	438084 400215
148	**Points of Interest - Manufacturing and Production** Name: Works Location: S74 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	148	7	438085 400215
149	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	170	7	438192 400467
149	**Points of Interest - Manufacturing and Production** Name: Works Location: S74 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	171	7	438193 400466
150	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	712	7	438690 400088
150	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	730	7	438737 400160
151	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (SE)	720	7	438660 400015
151	**Points of Interest - Manufacturing and Production** Name: Works Location: S74 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (SE)	720	7	438660 400015
151	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	722	7	438636 399974
151	**Points of Interest - Manufacturing and Production** Name: Shaft Location: S74 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9NE (SE)	787	7	438703 399957
151	**Points of Interest - Manufacturing and Production** Name: Shaft Location: S74 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9NE (SE)	792	7	438698 399940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	**Points of Interest - Manufacturing and Production** Name: Shaft Location: S74 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9NW (SE)	775	7	438554 399789
153	**Points of Interest - Manufacturing and Production** Name: R Ollerenshaw Location: Alderthwaite Farm, Broad Carr Road, Hoyland, Barnsley, S74 9BS Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A7SE (SW)	853	7	437375 399568
153	**Points of Interest - Manufacturing and Production** Name: R Ollerenshaw Location: Alderthwaite Farm, Broad Carr Road, Hoyland, Barnsley, S74 9BS Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A7SE (SW)	853	7	437375 399568
154	**Points of Interest - Manufacturing and Production** Name: Tank Location: S74 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	883	7	438925 400343
154	**Points of Interest - Manufacturing and Production** Name: Tank Location: S74 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	890	7	438930 400317
154	**Points of Interest - Manufacturing and Production** Name: Tank Location: S74 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	893	7	438935 400353
154	**Points of Interest - Manufacturing and Production** Name: Tank Location: S74 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	902	7	438944 400360
155	**Points of Interest - Public Infrastructure** Name: Elsecar Rail Station Location: Hill Street, S74 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A13NE (E)	44	7	438083 400367
155	**Points of Interest - Public Infrastructure** Name: Elsecar and Hoyland Station Location: Hill Street, S74 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A13NE (E)	44	7	438083 400367
156	**Points of Interest - Public Infrastructure** Name: Graveyard Location: S74 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	615	7	438649 400280
157	**Points of Interest - Public Infrastructure** Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	671	7	438672 400153
157	**Points of Interest - Public Infrastructure** Name: Graveyard Location: S74 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	671	7	438672 400153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**Points of Interest - Public Infrastructure** Name: Slag Heap Location: S74 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	809	7	438840 400251
159	**Points of Interest - Public Infrastructure** Name: Dam Location: S74 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	830	7	438870 400325
159	**Points of Interest - Public Infrastructure** Name: Weir Location: S74 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	888	7	438930 400407
159	**Points of Interest - Public Infrastructure** Name: Tip Location: S74 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	913	7	438955 400366
160	**Points of Interest - Public Infrastructure** Name: Brobot Petroleum Ltd Location: Market Street, Hoyland, Barnsley, S74 0ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	851	7	437185 400814
160	**Points of Interest - Public Infrastructure** Name: Brobot Petroleum Ltd Location: Market Street, Hoyland, Barnsley, S74 0ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	901	7	437175 400898
160	**Points of Interest - Public Infrastructure** Name: Brobot Hoyland Location: 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	901	7	437175 400898
161	**Points of Interest - Public Infrastructure** Name: Outfall Location: S74 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	855	7	438351 399516
162	**Points of Interest - Public Infrastructure** Name: Cemetery Location: S74 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	939	7	436968 400512
162	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	946	7	436957 400494
162	**Points of Interest - Public Infrastructure** Name: Cemetery Location: S74 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	946	7	436957 400494
163	**Points of Interest - Recreational and Environmental** Name: Skateboard Park Location: Greenacre Close, S74 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	84	7	437813 400224

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	**Points of Interest - Recreational and Environmental** Name: Playground Location: Millhouses Street, S74 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (W)	187	7	437692 400290
165	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	649	7	438220 399681
165	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	669	7	438217 399657
165	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Armroyd Lane, S74 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	674	7	438232 399659
166	**Points of Interest - Recreational and Environmental** Name: Playground Location: Roebuck Hill, S74 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NW (N)	889	7	437862 401314

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	**Ancient Woodland** Name: Simon Wood Reference: 1105032 Area(m²): 81265.68 Type: Plantation on Ancient Woodland	A9NE (SE)	903	8	438812 399910
168	**Ancient Woodland** Name: Kings Wood Reference: 1105031 Area(m²): 193342.52 Type: Ancient and Semi-Natural Woodland	A9SW (SE)	971	8	438593 399548
169	**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	A13SW (SW)	253	9	437734 400049
170	**Areas of Adopted Green Belt** Authority: Rotherham Metropolitan Borough Council Plan Name: Rotherham Unitary Development Plan **Status: Adopted** Plan Date: 14th June 1999	A9NE (SE)	909	10	438821 399915
171	**Local Nature Reserves** Name: Elsecar Reservoir Multiple Area: N Area (m2): 135538.33 Source: Natural England Designation Date: 28th March 2012	A8SE (S)	713	8	438214 399607
172	**Nitrate Vulnerable Zones** Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NW (NE)	0	11	437955 400344

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Rotherham Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	January 2015	Annual Rolling Update
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	July 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	January 2016	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	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	June 2014	Annual Rolling Update
Rotherham Metropolitan Borough Council - Planning Department	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	June 2014	Annual Rolling Update
Rotherham Metropolitan Borough Council - Planning Department	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	June 2014	Annual Rolling Update
Rotherham Metropolitan Borough Council - Planning Department	October 2014	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
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	January 2016	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2016	Quarterly
Water Abstractions		
Environment Agency - North East Region	January 2016	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	January 2016	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	March 2016	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	February 2016	Quarterly
Environment Agency - North East Region - Yorkshire Area	February 2016	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Ridings Area	January 2016	Quarterly
Environment Agency - North East Region - Yorkshire Area	January 2016	Quarterly
Local Authority Landfill Coverage		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Rotherham Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Rotherham Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - North 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	February 2016	Bi-Annually
Explosive Sites		
Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Rotherham Metropolitan Borough Council	February 2016	Annual Rolling Update
Sheffield City Council	February 2016	Annual Rolling Update
Barnsley Metropolitan Borough Council - Planning Department	January 2016	Annual Rolling Update
Planning Hazardous Substance Consents		
Rotherham Metropolitan Borough Council	February 2016	Annual Rolling Update
Sheffield City Council	February 2016	Annual Rolling Update
Barnsley Metropolitan Borough Council - Planning Department	January 2016	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	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	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	March 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	March 2016	Quarterly
Points of Interest - Education and Health PointX	March 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2016	Quarterly
Points of Interest - Public Infrastructure PointX	March 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

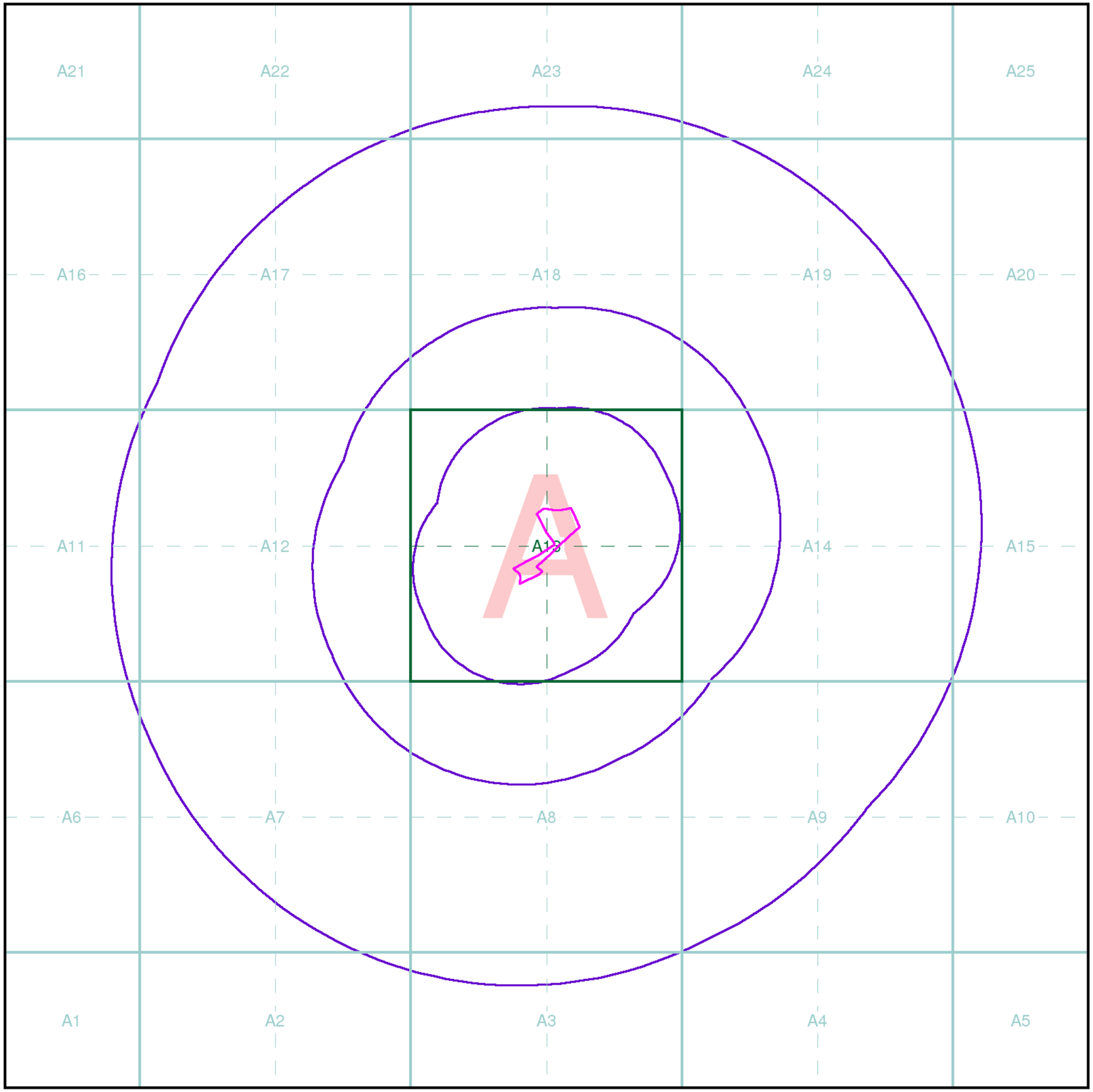
Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	June 2015	Bi-Annually
Areas of Adopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	January 2016	As notified
Rotherham Metropolitan Borough Council	January 2016	As notified
Sheffield City Council	January 2016	As notified
Areas of Unadopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	November 201	As notified
Rotherham Metropolitan Borough Council	November 201	As notified
Sheffield City Council	November 201	As notified
Areas of Outstanding Natural Beauty		
Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas		
Natural England	April 2016	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	April 2016	Bi-Annually
Marine Nature Reserves		
Natural England	April 2016	Bi-Annually
National Nature Reserves		
Natural England	April 2016	Bi-Annually
National Parks		
Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites		
Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest		
Natural England	October 2015	Bi-Annually
Special Areas of Conservation		
Natural England	April 2016	Bi-Annually
Special Protection Areas		
Natural England	April 2016	Bi-Annually
World Heritage Sites		
English Heritage - National Monument Record Centre	September 2015	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
2	**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
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**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
5	**Rotherham Metropolitan Borough Council - Environmental Health Department** Howard Building, College Lane, Rotherham, South Yorkshire, S65 1AX	Website: www.rotherham.gov.uk
6	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	**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
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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**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.



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Miss K Daddo-Langlois, Eastwood & Partners Ltd, St Andrews House, 23 Kingfield Road, Sheffield, S11 9AS

Order Details

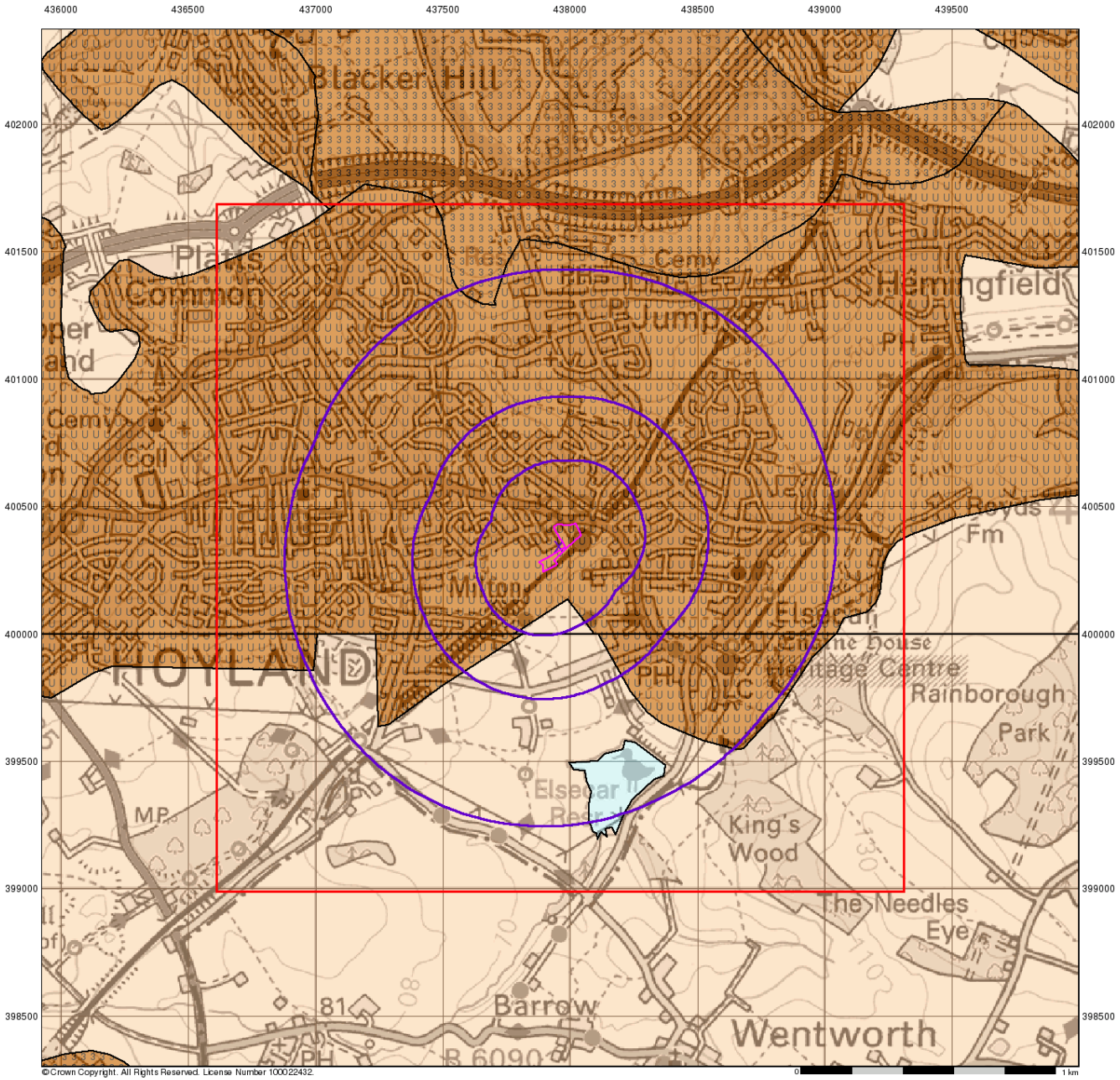
Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437970, 400360
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

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



Envirocheck®

Groundwater Vulnerability

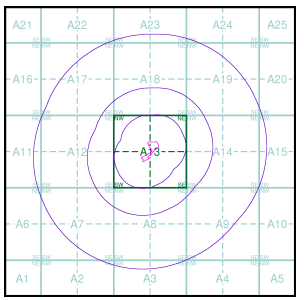
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

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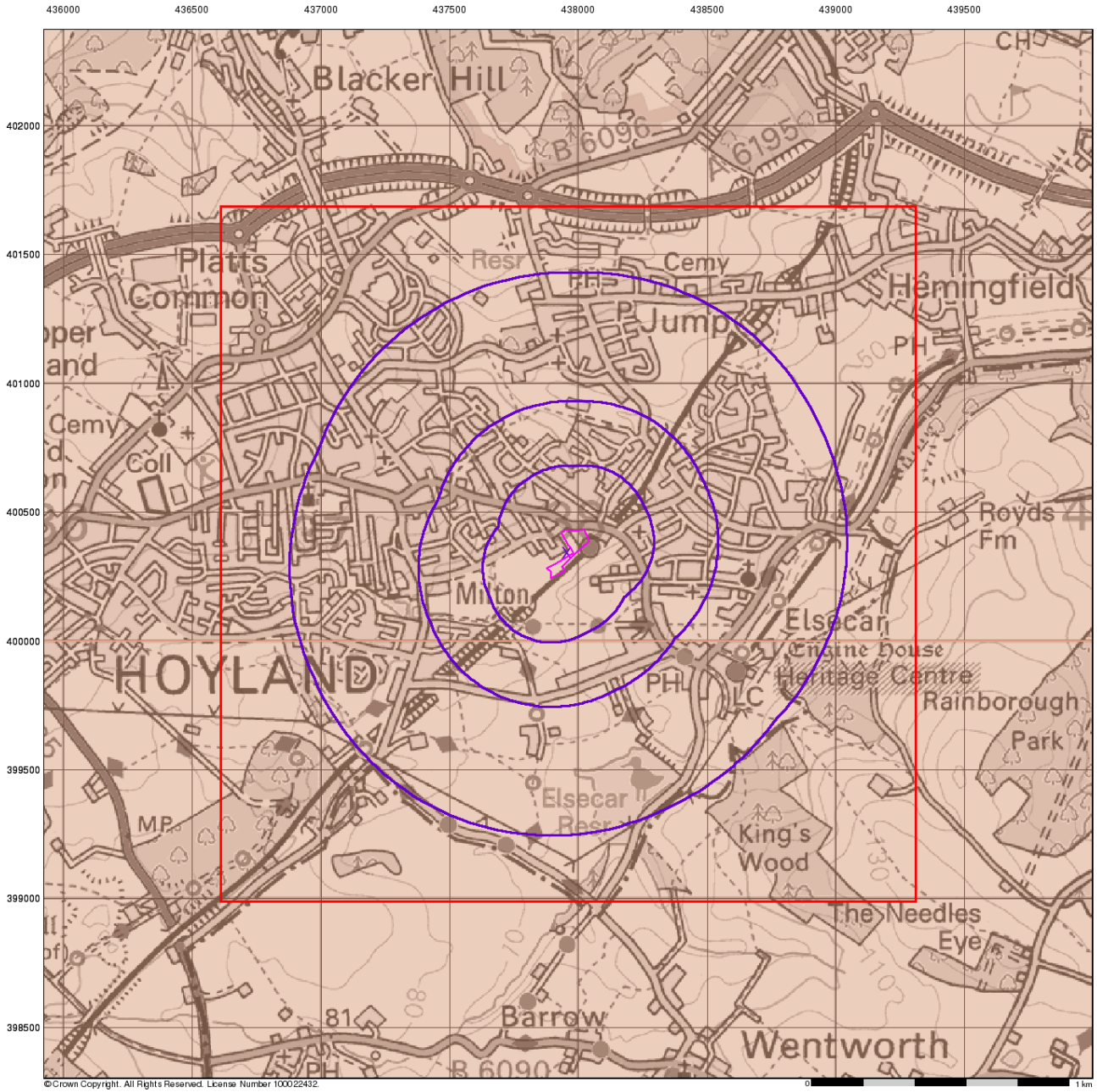


Bedrock Aquifer Designation

General

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

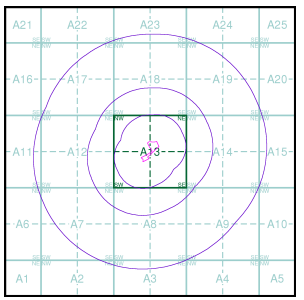
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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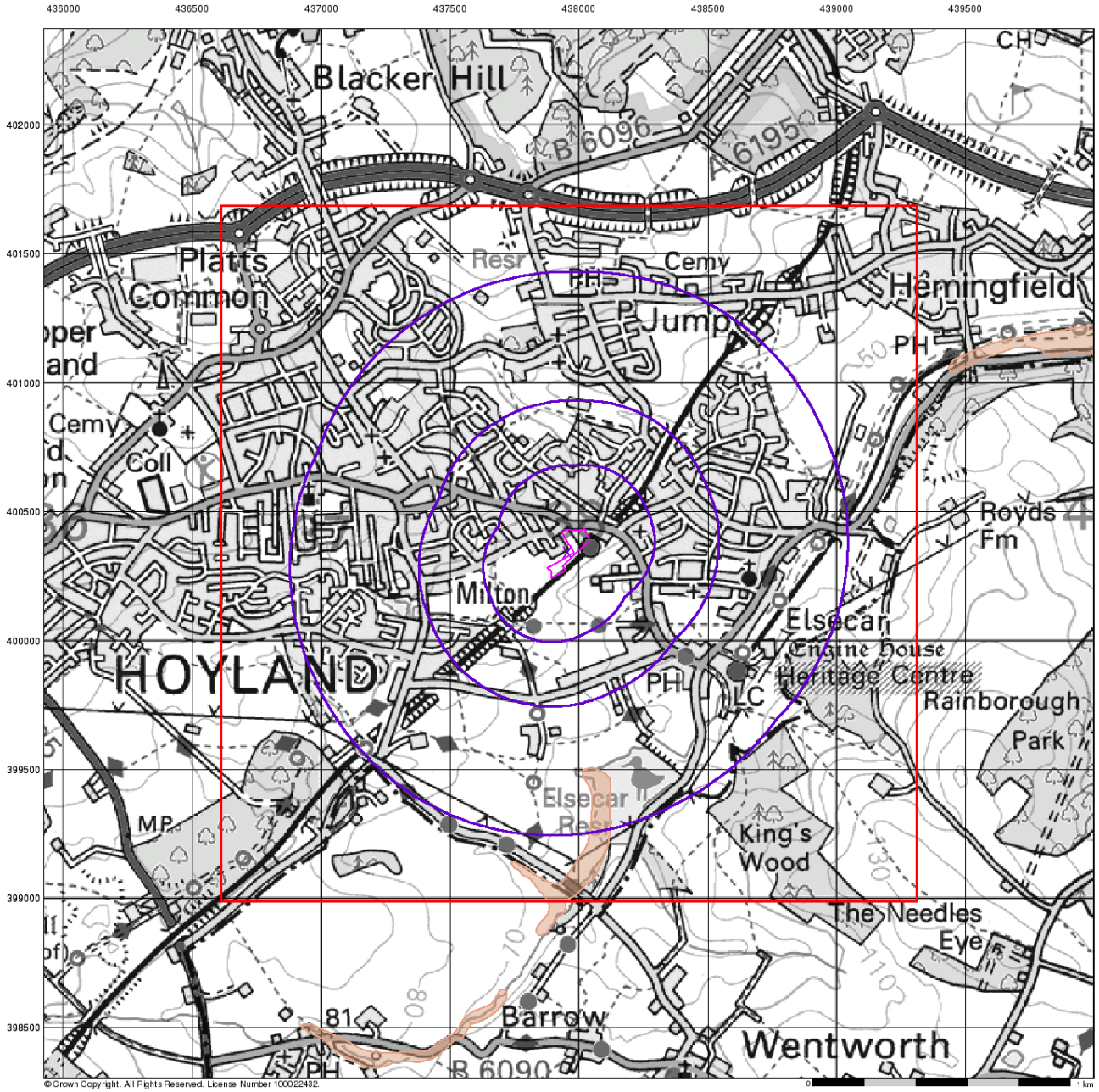

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Superficial Aquifer Designation

General

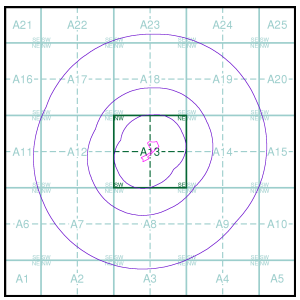
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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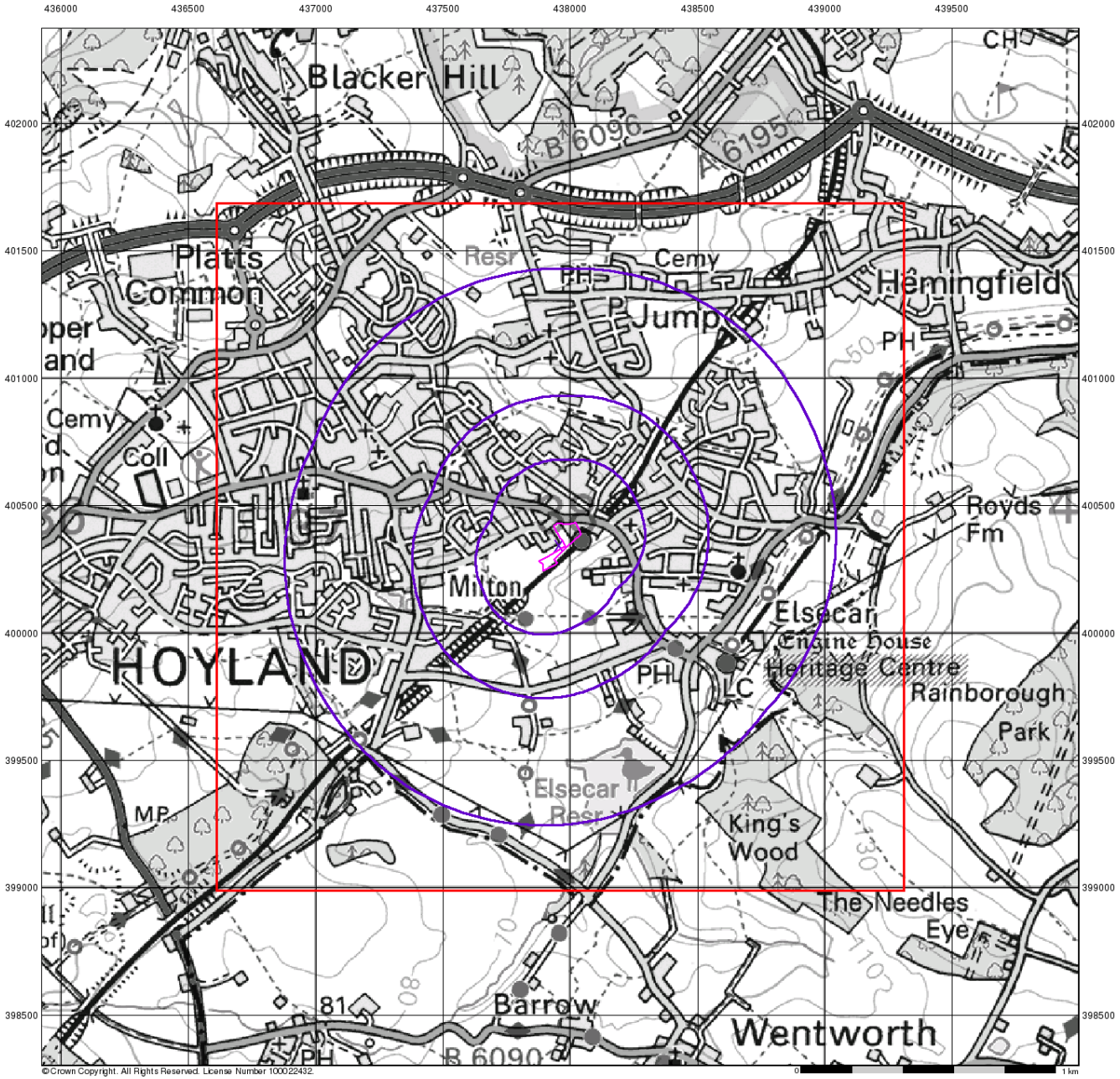

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Source Protection Zones

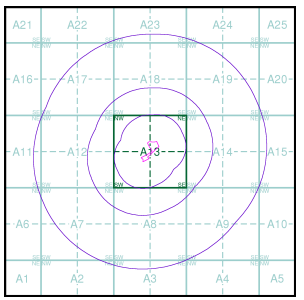
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

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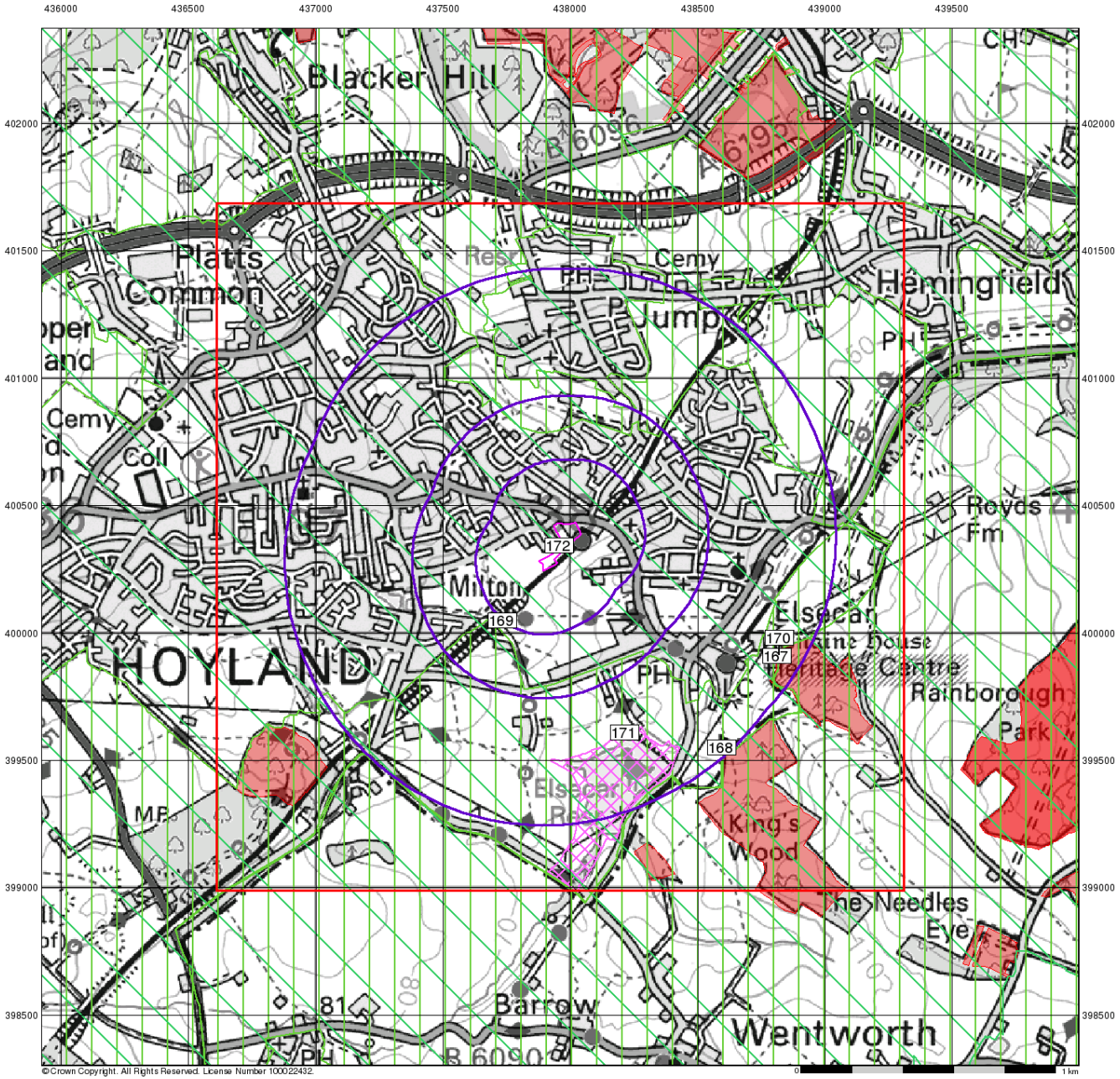


Envirocheck®

Sensitive Land Uses

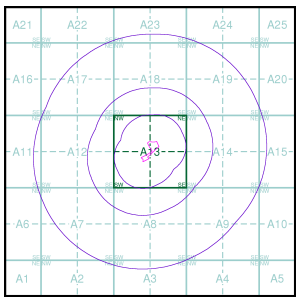
General

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

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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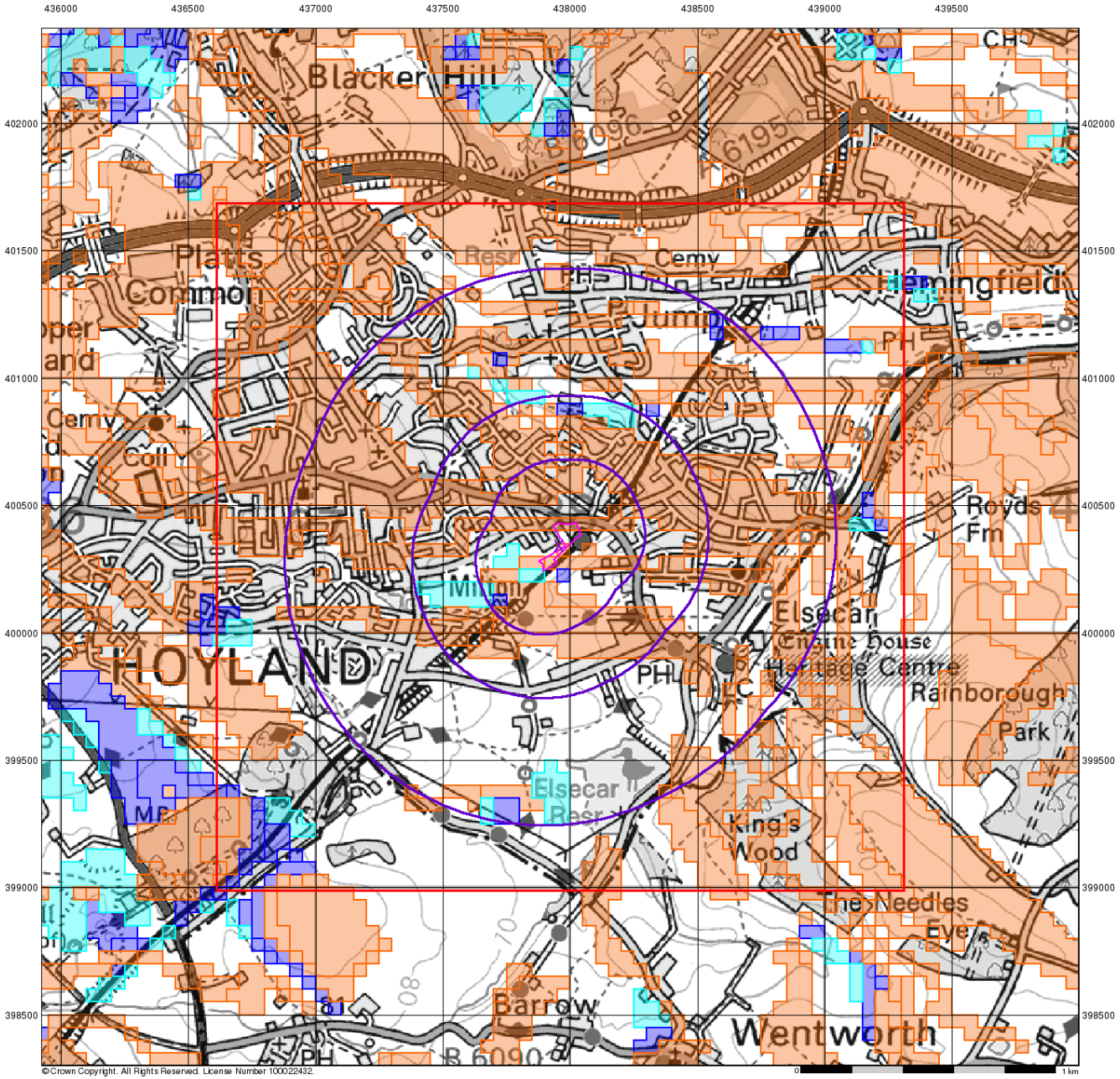


Envirocheck®

BGS Flood GFS Data

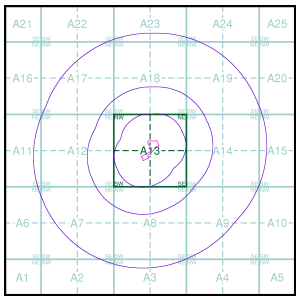
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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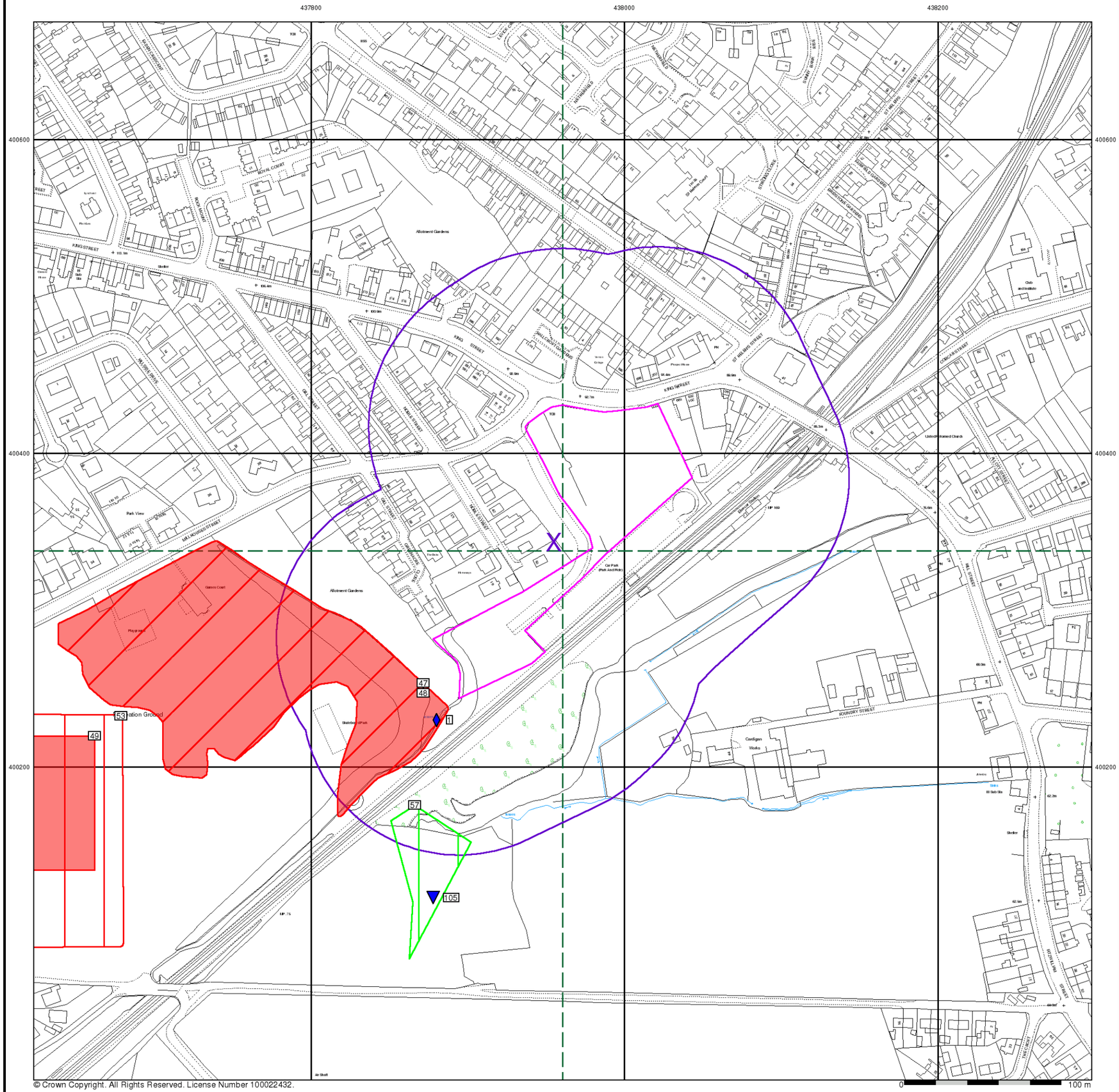

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Envirocheck®

General

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

Agency and Hydrological

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

Hazardous Substances

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

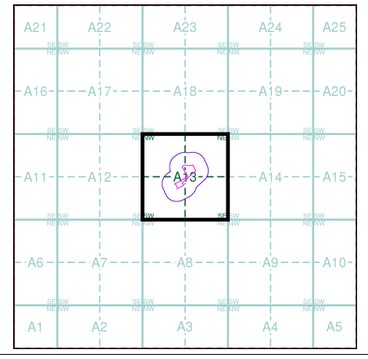
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A13



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Plot Buffer (m):	100

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Landmark® Information Group

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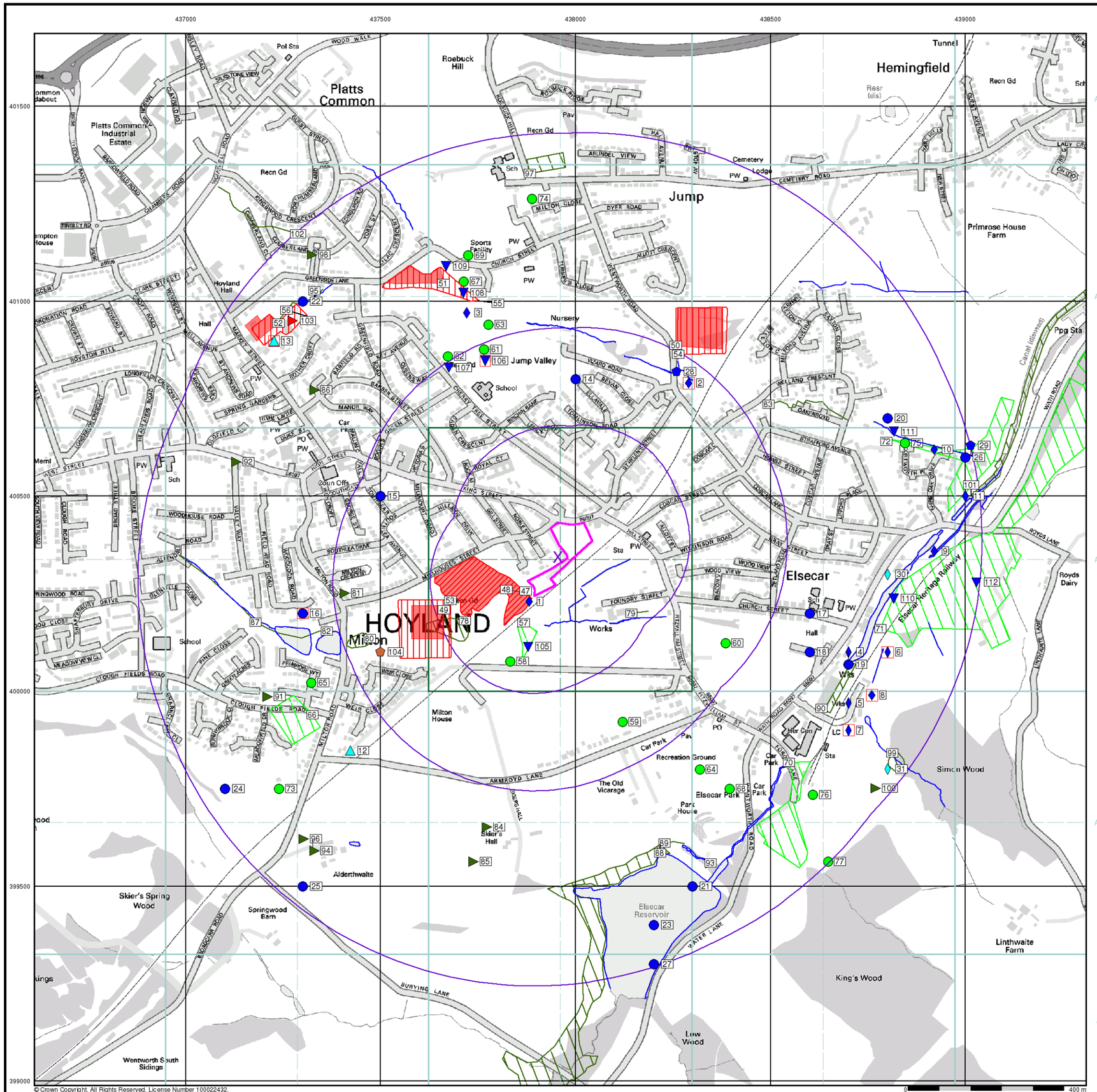
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Platts Common Industrial Estate
Roebuck Hill
Hemingfield
Tunnel
Jump
Primrose House Farm
Hoyland Hall
Nursery
Jump Valley
School
Sports Facility
Recn Gd
Cemetery
Lodge
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Milton
Elsecar
Hall
Works
Milton House
Recreation Ground
Car Park
Elsecar Park
The Old Vicarage
Park House
Simon Wood
Royds Dairy
Alderthwaite
Skier's Spring Wood
Springwood Barn
Elsecar Reservoir
Linthwaite Farm
King's Wood
Low Wood
Wentworth South Sidings
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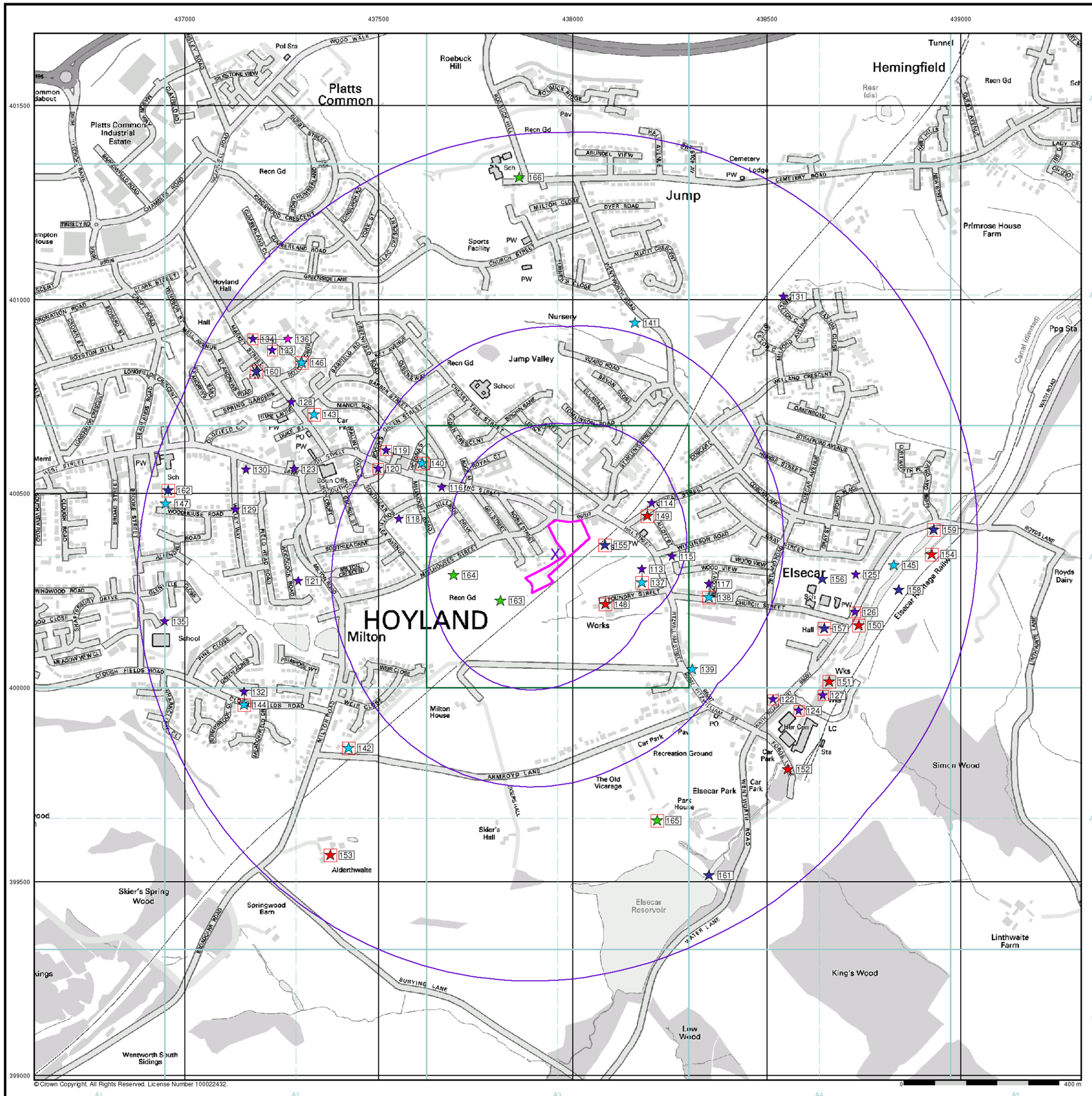
Fishponds Nature Reserve
Fishponds Nature Reserve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Nursery
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Sports Facility
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Springwood Barn
Elsecar Reservoir
Linthwaite Farm
King's Wood
Low Wood
Simon Wood
Royds Dairy
Wentworth South Sidings
Her Cam
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PO
Meml
Milton Crescent
Milton Road
Milton Close
Dyer Road
Church Street
Cemetery Road
Arundel View
Queen Avenue
Hey Hills
Primrose Lane
Lady Cr
Old Rd
Greenside Lane
Clark Street
Wilthorpe Rd
Royston Hill
Royston Road
Longfield Crescent
Longfield Road
Spring Gardens
Manor Way
Oldfield Ct
Duke St
Queen Street
Wesley Street
Brook Street
Broad Street
Woodhouse Road
Alfred Road
Glenville Close
Ringwood Road
Shaftesbury Drive
Meadowview Cl
Clough Fields Road
Pine Close
Greenacres
Primrose Wy
Weir Close
LDS Road
Bondgreen Cl
Meadowfield Dr
Armroyd Lane
Borough Road
Water Lane
Burying Lane
Wentworth Road
Forge Lane
Rotherham Road
Barnsley Road
Wath Road
Wilthorpe Rd
Wilthorpe Crescent
Wilthorpe Avenue
Wilthorpe Close
Wilthorpe Grove
Wilthorpe Drive
Wilthorpe Road
Wilthorpe Rise
Wilthorpe Gdns
Wilthorpe Ct
Wilthorpe Cl
Wilthorpe Mount
Wilthorpe Terrace
Wilthorpe Lane
Wilthorpe Walk
Wilthorpe Way
Wilthorpe Park
Wilthorpe Hill
Wilthorpe Hall
Wilthorpe Farm
Wilthorpe House
Wilthorpe Cottage
Wilthorpe Barn
Wilthorpe Mill
Wilthorpe Bridge
Wilthorpe Ford
Wilthorpe Gate
Wilthorpe Stile
Wilthorpe Path
Wilthorpe Track
Wilthorpe Lane
Wilthorpe Road
Wilthorpe Street
Wilthorpe Avenue
Wilthorpe Close
Wilthorpe Drive
Wilthorpe Grove
Wilthorpe Hill
Wilthorpe Mount
Wilthorpe Park
Wilthorpe Rise
Wilthorpe Terrace
Wilthorpe Walk
Wilthorpe Way
Wilthorpe Wood
Wilthorpe Yard
Wilthorpe Zone
Wilthorpe Area
Wilthorpe Block
Wilthorpe Cell
Wilthorpe Cluster
Wilthorpe Complex
Wilthorpe Compound
Wilthorpe Court
Wilthorpe Estate
Wilthorpe Gardens
Wilthorpe Green
Wilthorpe Heights
Wilthorpe Industrial Estate
Wilthorpe Lodge
Wilthorpe Manor
Wilthorpe Meadow
Wilthorpe Mews
Wilthorpe Orchard
Wilthorpe Paddock
Wilthorpe Pasture
Wilthorpe Plantation
Wilthorpe Quarry
Wilthorpe Retreat
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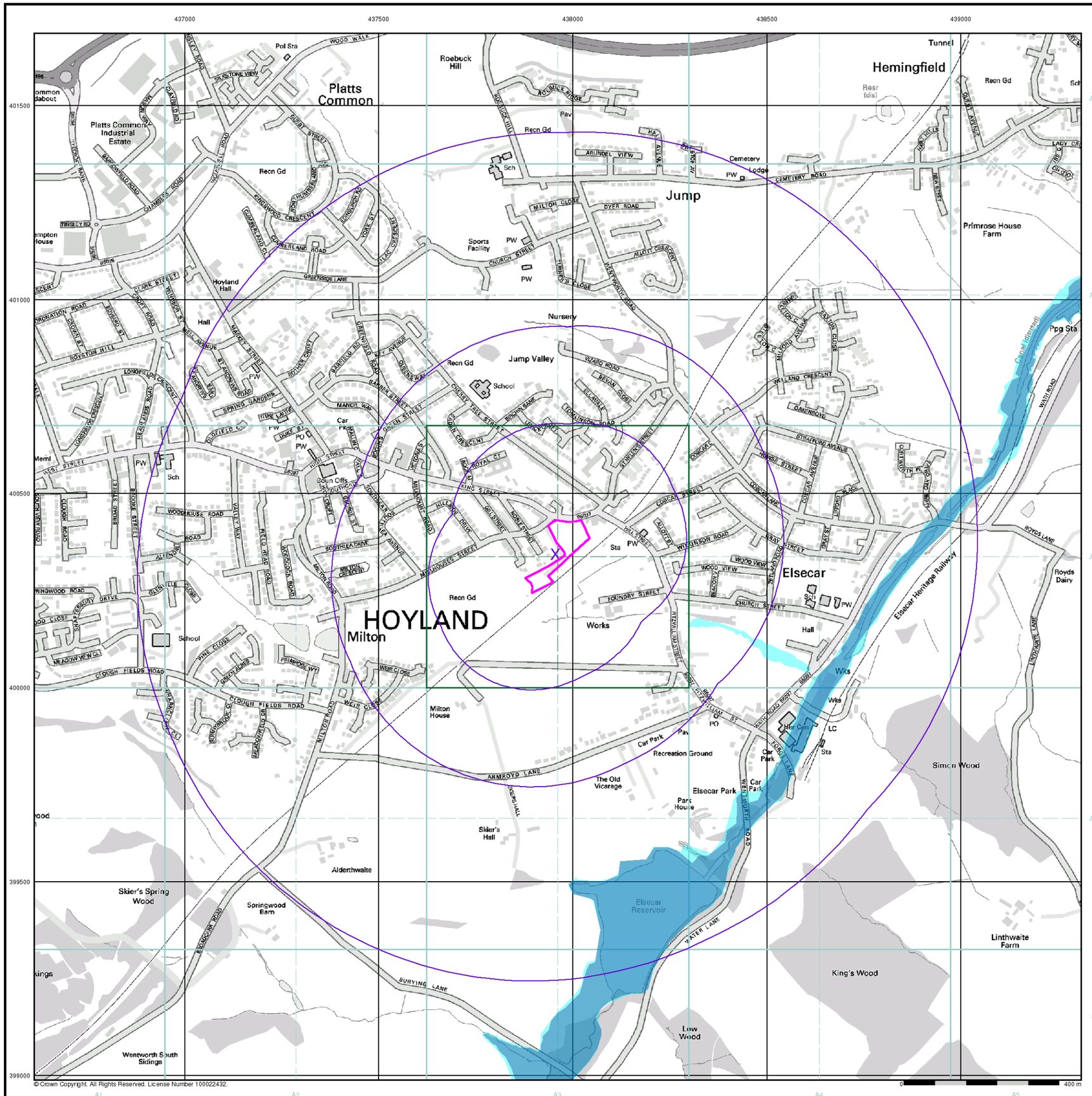
Wilthorpe Spinney
Wilthorpe Square
Wilthorpe Terrace
Wilthorpe Vale
Wilthorpe View
Wilthorpe Village
Wilthorpe Wharf



Envirocheck®

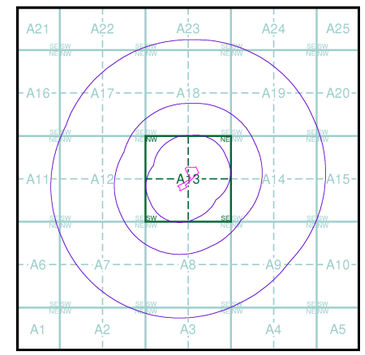
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number:	84865678_1_1
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Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

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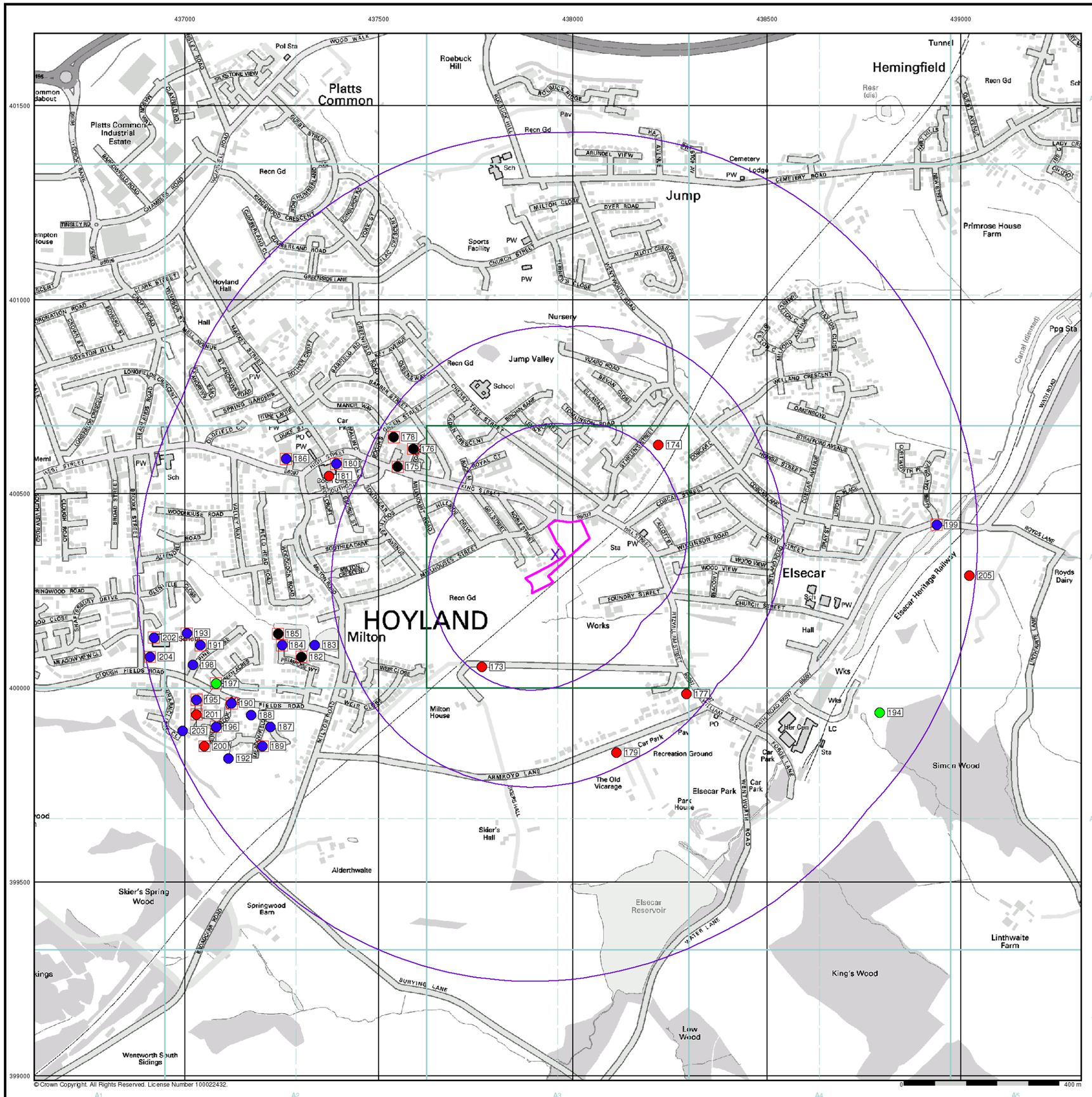
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Nursery
School
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Sports Facility
Primrose House Farm
Elsecar
Elsecar Heritage Railway
Milton House
Recreation Ground
The Old Vicarage
Elsecar Park
Park House
Skier's Hall
Alderthwaite
Skier's Spring Wood
Springwood Barn
Elsecar Reservoir
Linthwaite Farm
King's Wood
Low Wood
Simon Wood
Royds Dairy
Ppg Sta
Canal (disused)
Tunnel
Cemetery Lodge
Milton Close
Dyer Road
Church Street
Greenside Lane
Manor Way
Queens Way
Vicarage Road
Wellington Street
Market Street
Spring Gardens
Duke St
High Street
Queen Street
Wood Walk
Silkstone View
Oakford Rd
Gilbert Street
Chambers Road
Tingley Rd
Cumberland Road
Cumberland Crescent
York St
Church Street
Greenfield Road
Barrow Rd
Wilthorpe Road
Cemetery Road
Queen Avenue
Arundel View
Arundel Avenue
Dyer Road
Allott Crescent
Wellington Street
Wellington Road
Wilkinson Road
Foundry Street
Church Street
Wood View
Pavement
Recn Gd
Sch
Sta
PW
Hall
Wks
LC
Car Park
Ho
Cem
Pav
PO
Nurs
Ppg Sta
Tunnel
Rsvr (dis)
Cemetery
Lodge
Sports Facility
Car Park
Recreation Ground
Milton House
Elsecar Heritage Railway
Royds Dairy
Simon Wood
Linthwaite Farm
King's Wood
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Elsecar Reservoir
Springwood Barn
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Alderthwaite
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Elsecar Park
Milton House
Hoyland Hall
Platts Common Industrial Estate
Platts Common
Roebuck Hill
Hemingfield
Jump
Jump Valley
Nursery
Primrose House Farm
Elsecar
HOYLAND
Milton
Works
Hall
Wks
Wks
Sta
LC
Car Park
Car Park
Car Park
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Recn Gd
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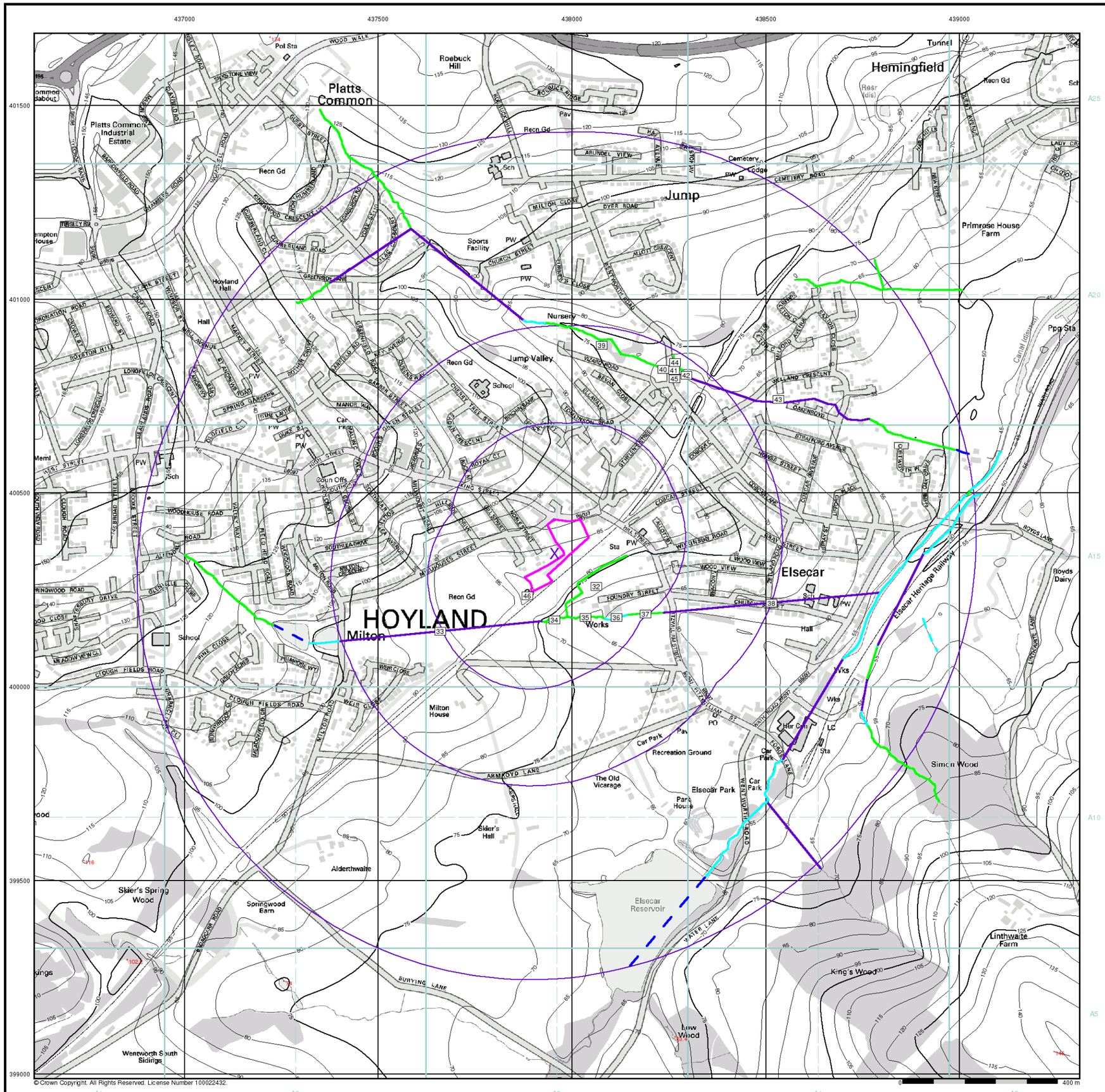
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Jump Valley
Platts Common Industrial Estate
Roebuck Hill
Primrose House Farm
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Sports Facility
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Elsecar Reservoir
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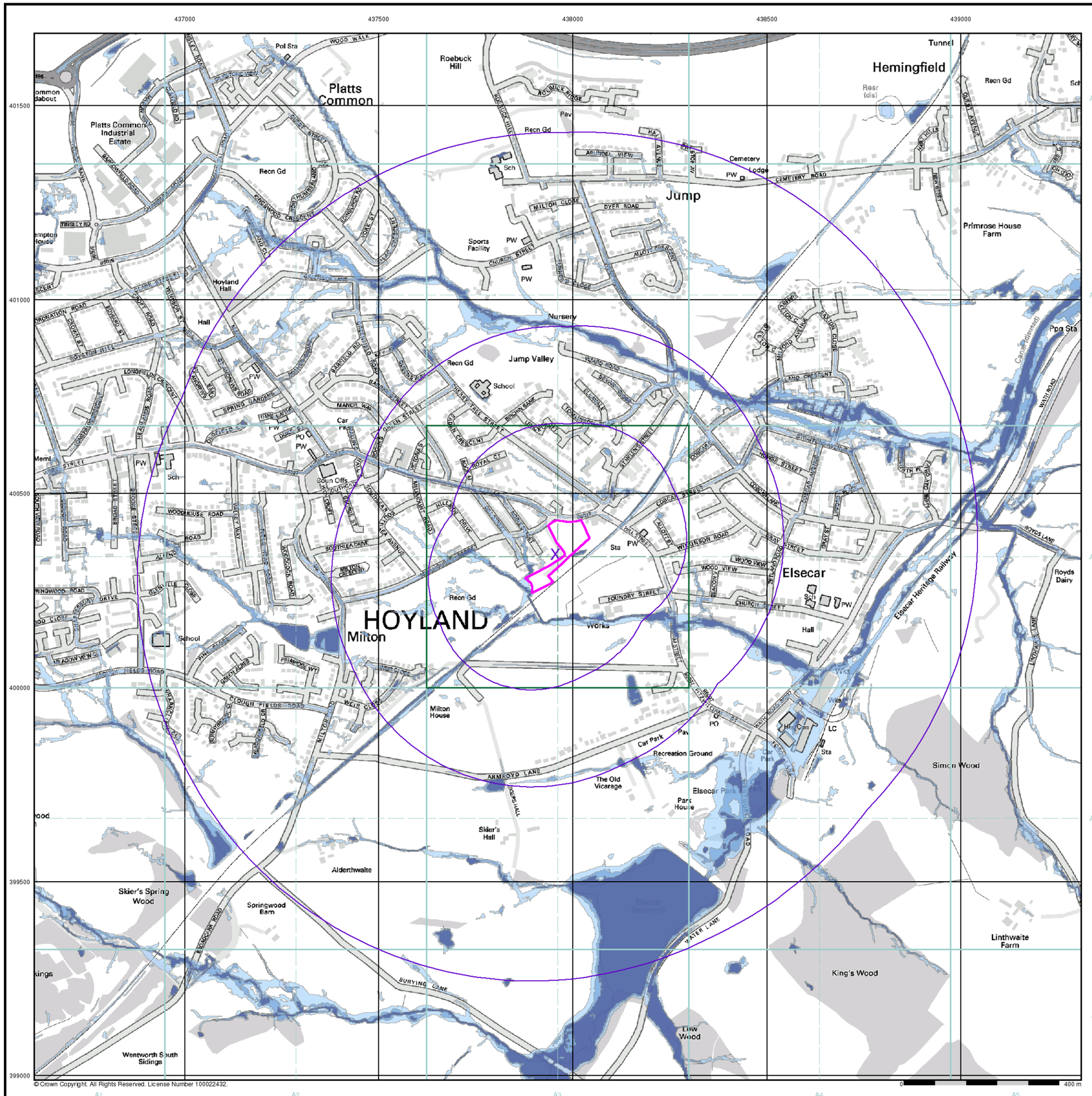
Springwood Barn
Wentworth South Sidings
Simon Wood
King's Wood
Linthwaite Farm
Royds Dairy
Elsecar Heritage Railway
Milton Road
Wentworth Road
Burying Lane
Water Lane
Armroyd Lane
Cemetery Road
Church Street
Foundry Street
Jump Road
Milton Close
Weir Road
Weir Close
Clough Fields Road
Meadowview Close
Ringwood Crescent
Cumberland Road
Greenside Lane
Milton Crescent
Milton Terrace
Milton Avenue
Milton Grove
Milton Street
Milton Cottages
Milton Road West
Milton Road East
Meadowfield Close
Meadowfield Drive
Meadowfield Way
Pine Close
Primrose Way
Weir Close
Weir Road Court
Weir Road Drive
Weir Road Terrace
Weir Road Avenue
Weir Road Crescent
Weir Road Gardens
Weir Road Grove
Weir Road Road
Weir Road Street
Weir Road



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Envirocheck®

General

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

Risk of Flooding from Surface Water

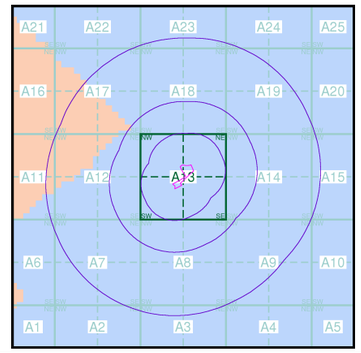
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

Order Number:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Landmark® Information Group

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



Envirocheck®

General

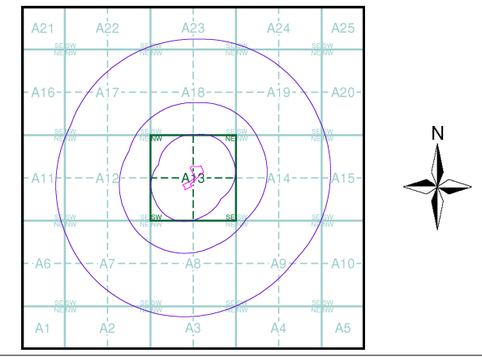
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



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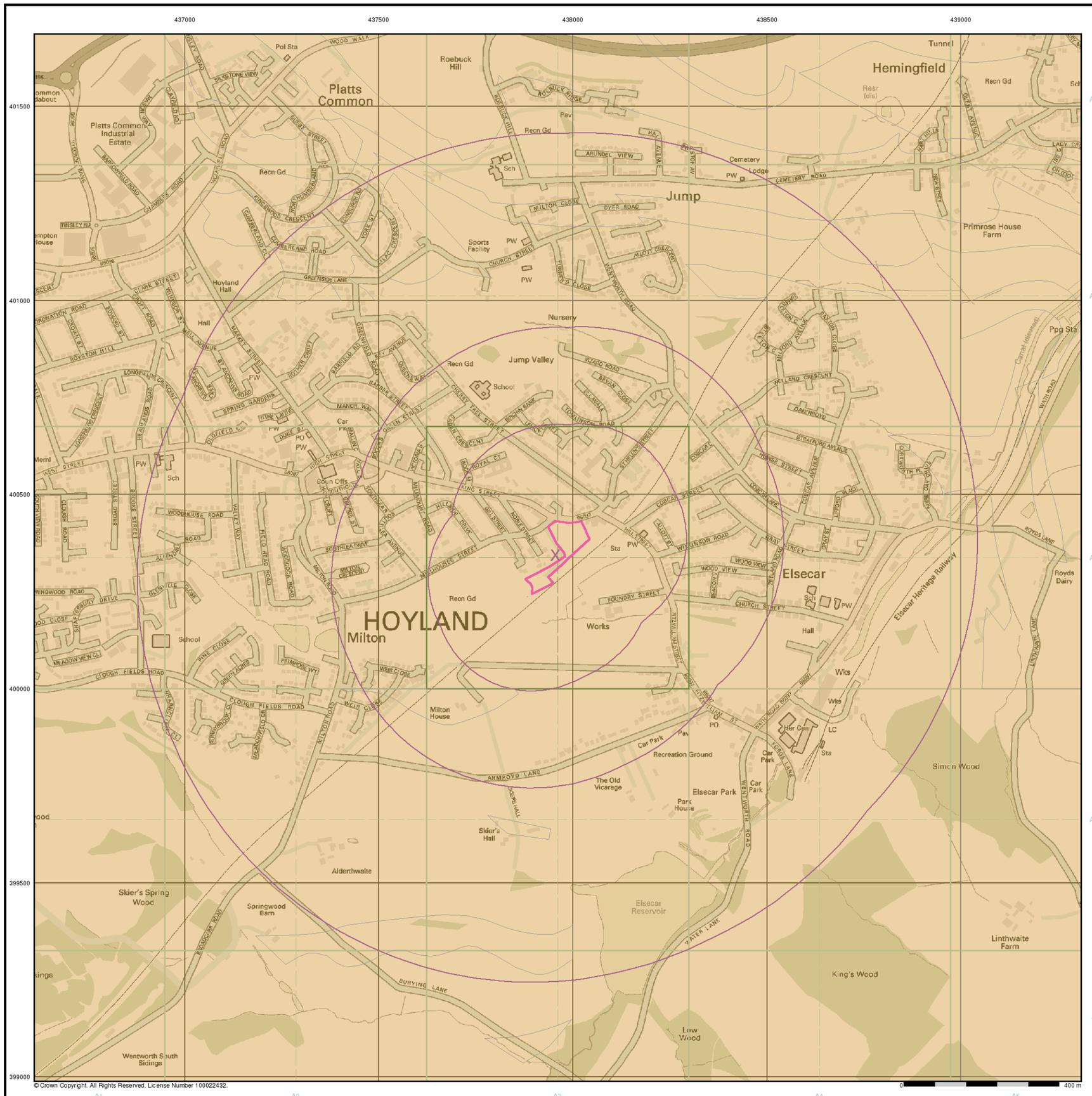


Envirocheck®

General

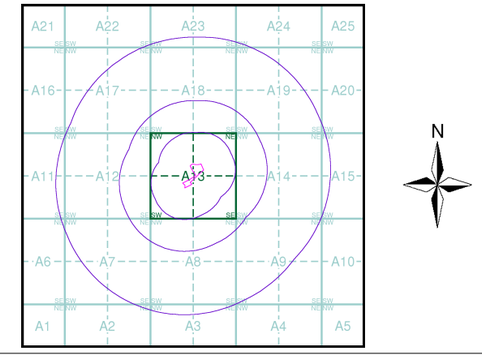
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



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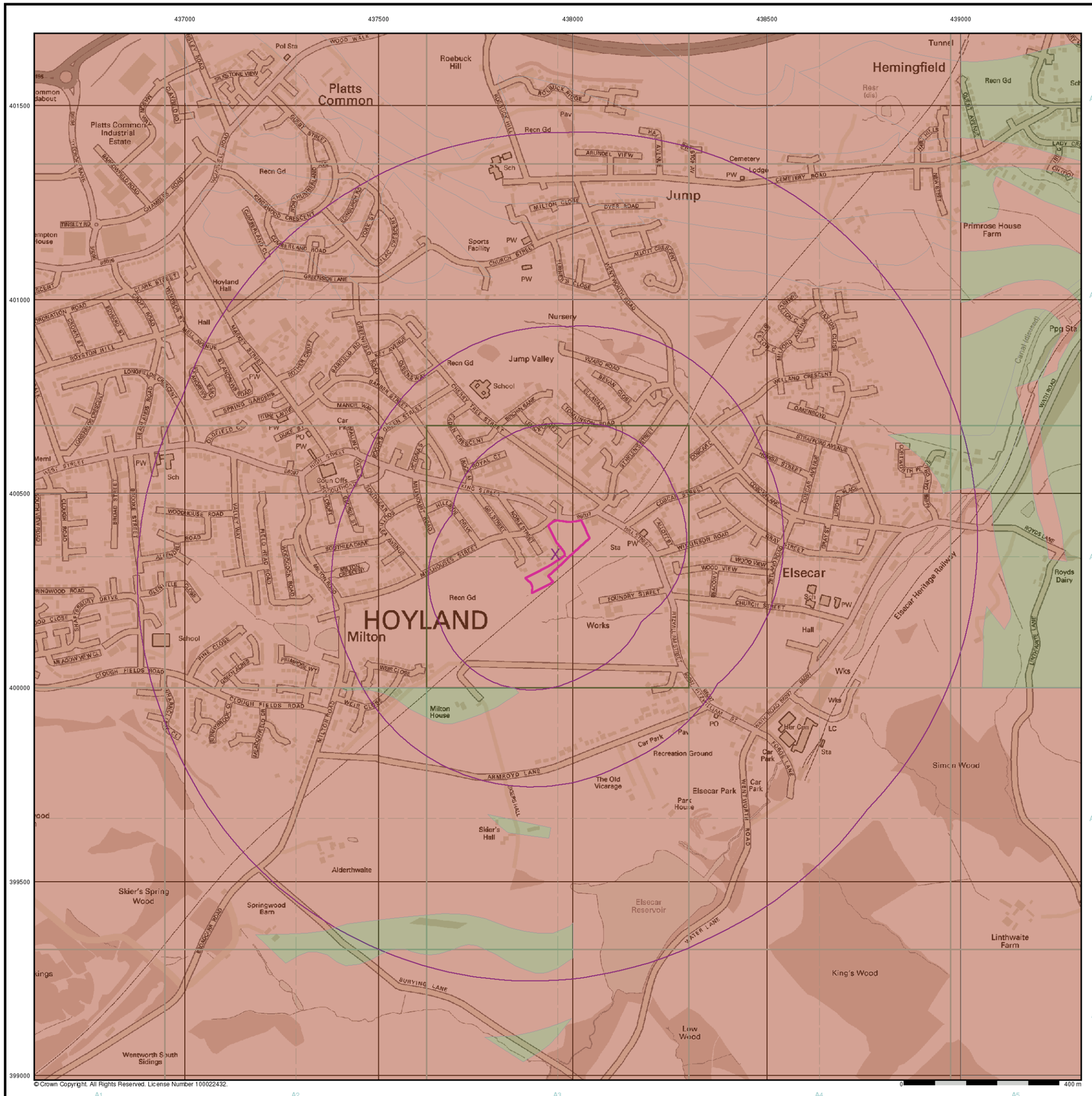


Envirocheck®

General

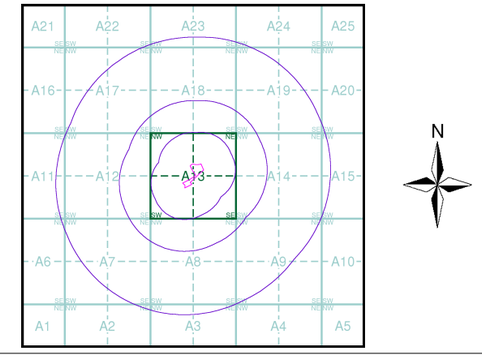
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

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National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Landmark® Information Group

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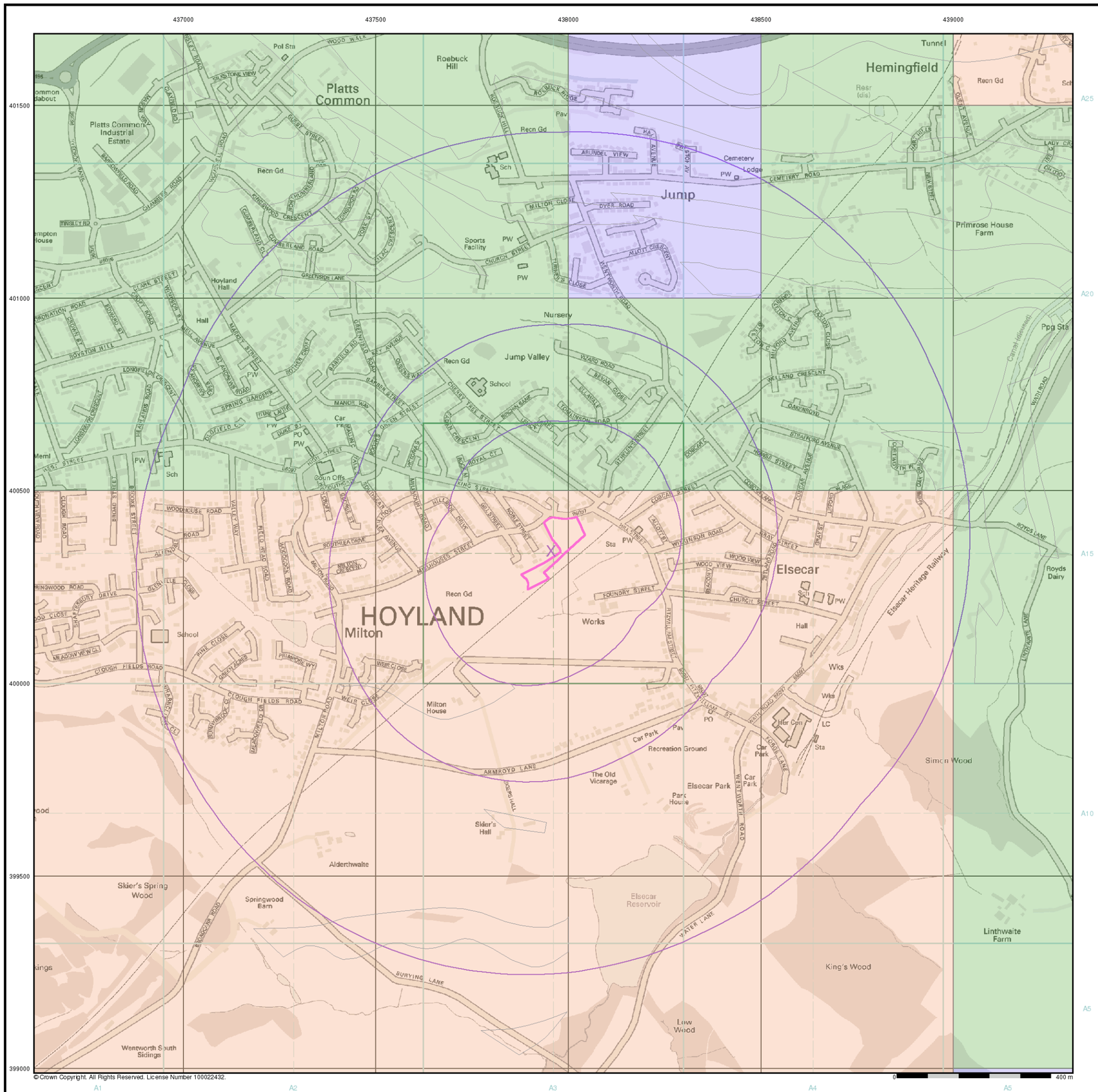
437000
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401500
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400500
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399500
399000
A25
A20
A15
A10
A5
A1
A2
A3
A4
A5
Platts Common
Platts Common Industrial Estate
Roebuck Hill
Hemingfield
Jump
Primrose House Farm
Hoyland Hall
Nursery
Jump Valley
School
HOYLAND
Milton
Elsecar
Works
Milton House
Recreation Ground
The Old Vicarage
Elsecar Park
Park House
Skier's Hall
Alderthwaite
Skier's Spring Wood
Springwood Barn
Elsecar Reservoir
Linthwaite Farm
King's Wood
Low Wood
Simon Wood
Royds Dairy
Elsecar Heritage Railway
Recn Gd
Sch
Cemetery
Lodge
Sports Facility
Car Park
Hall
Sta
PO
Ppg Sta
Tunnel
Milton Close
Dyer Road
Arundel View
Cemetery Road
Church Street
Greenside Lane
Vicarage Road
Vicar Lane
Queen Street
Wentworth Road
Armroyd Lane
Water Lane
Burying Lane
Foundry Street
Wilkinson Road
Wood View
Hill Street
Meadowcroft
Clough Fields Road
Weir Close
Primrose Way
Meadowview Close
Ringwood Road
Shaftesbury Drive
Glenville Close
Ridge Close
Green Lane
Woodhouse Road
Valley Way
Broad Street
Brooke Street
Church Avenue
Church Road
Rotherham Road
Wood Walk
Silkstone View
Barnsley Road
Chambers Road
Tingley Rd
Cumberland Road
Kingswood Crescent
Northumberland Rd
Bonsor Rd
York St
Clark Street
Wilkinson St
Coronation Road
Royston Hill
Longfield Crescent
Heaviniers Road
Spring Gardens
Manor Way
Duke St
Oldfield Cl
Memi
Gown Offs
Broad
Royal Ct
King Street
Barrell Rd
Greenfield Way
Queens Way
Barker Street
Chesley Park Street
Bingham Close
Lonsdale Road
Vicarage Crescent
Vicarage Close
Vicarage Drive
Milton Crescent
Milnhouses Street
Hillside Drive
Hillside
Mill Street
Southlea Drive
Avenue
Alfred Rd
Mcgoodrick Road
Milton Road
Bonsor Cl
Briarcroft Rd
Bonsor Dr
Frank Cl
Vicar Cl
Green Lane
Primrose Wy
Weir Close
Clough Fields Road
Meadowview Cl
Shaftesbury Drive
Glenville Close
Ridge Close
Ringwood Road
Woodhouse Road
Valley Way
Broad Street
Brooke Street
Church Avenue
Church Road
Rotherham Road
Wood Walk
Silkstone View
Barnsley Road
Chambers Road
Tingley Rd
Cumberland Road
Kingswood Crescent
Northumberland Rd
Bonsor Rd
York St
Clark Street
Wilkinson St
Coronation Road
Royston Hill
Longfield Crescent
Heaviniers Road
Spring Gardens
Manor Way
Duke St
Oldfield Cl
Memi
Gown Offs
Broad
Royal Ct
King Street
Barrell Rd
Greenfield Way
Queens Way
Barker Street
Chesley Park Street
Bingham Close
Lonsdale Road
Vicarage Crescent
Vicarage Close
Vicarage Drive
Milton Crescent
Milnhouses Street
Hillside Drive
Hillside
Mill Street
Southlea Drive
Avenue
Alfred Rd
Mcgoodrick Road
Milton Road
Bonsor Cl
Briarcroft Rd
Bonsor Dr
Frank Cl
Vicar Cl
Rockley Hill
Rockley Ridge
Quest Avenue
Hoyle Hills
Lady Cr
Oldroyd
Rbs
Hey Street
Ha
Arundel Ave
Sto
Av
Milton Close
Dyer Road
Church Street
Greenside Lane
Vicarage Road
Vicar Lane
Queen Street
Wentworth Road
Armroyd Lane
Water Lane
Burying Lane
Foundry Street
Wilkinson Road
Wood View
Hill Street
Meadowcroft
Clough Fields Road
Weir Close
Primrose Way
Meadowview Close
Ringwood Road
Shaftesbury Drive
Glenville Close
Ridge Close
Green Lane



Envirocheck®

General

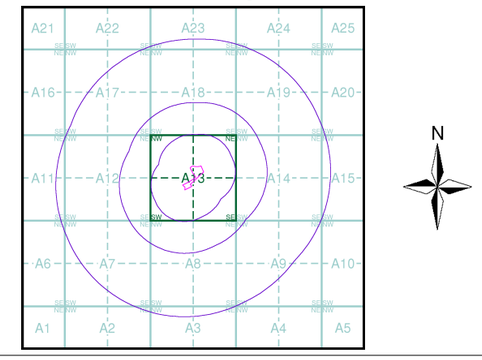
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	84865678_1_1
Customer Ref:	39825/PR
National Grid Reference:	437960, 400340
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

King Street, Hoyland, BARNSLEY, South Yorkshire, S74 9LL

Landmark® Information Group

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

The Coal Authority

Resolving the impacts of mining

CON29M Non-Residential Mining Report





KING STREET
BARNSLEY
HOYLAND SOUTH YORKSHIRE



Date of enquiry:	19 April 2016
Date enquiry received:	19 April 2016
Issue date:	19 April 2016
Our reference:	51001145914001
Your reference:	84865678_2|

CON29M Non-Residential Mining Report

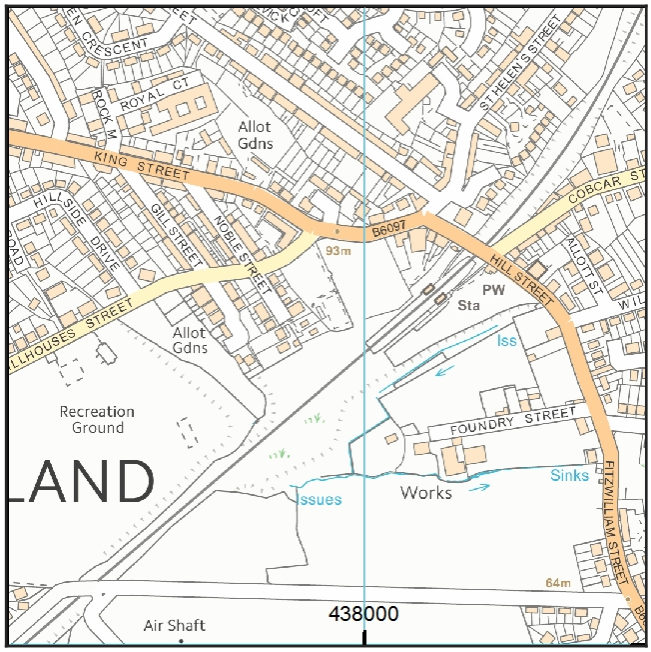
This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

KING STREET, BARNSLEY, HOYLAND, SOUTH YORKSHIRE



Approximate position of property

Mapping sourced from Ordnance Survey

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How to contact us

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200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.gov.uk/coalauthority

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/thecoalauthority
/coalauthority

Summary

Has the enquiry boundary identified evidence of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	Yes
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 11 seams of coal at 60m to 400m depth, and last worked in 1979.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

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

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

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

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

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

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

4. Mine entries

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

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

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

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

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

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

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

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

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

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

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

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

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

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

13. Working facilities order

The property is in an area for which the Newton Chambers Order dated 1936 has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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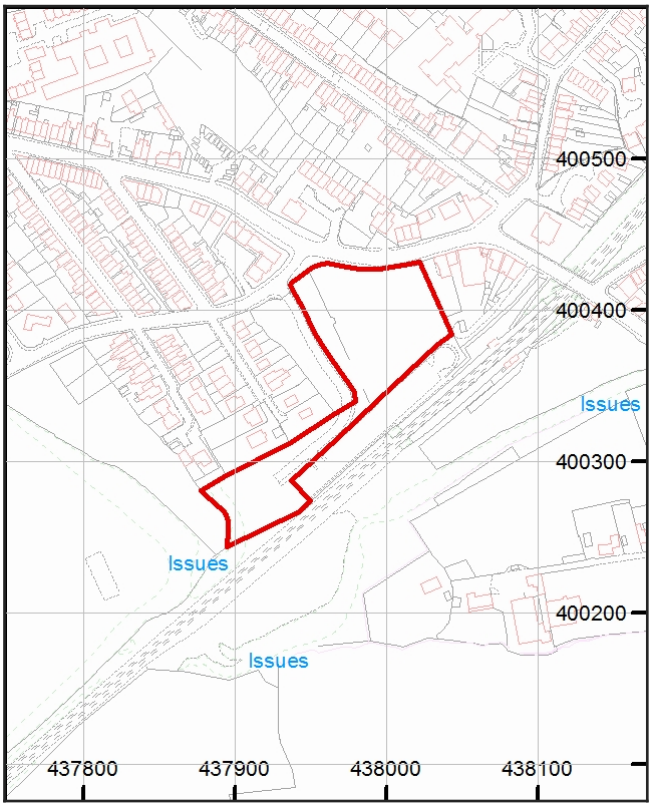
Alternative formats

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

Enquiry boundary

Key

Approximate position of enquiry boundary shown



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/coalauthority

Appendix 3

Trial Pit Logs

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP1
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m, Depth 1.82m, 0.80m	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.10			Grass over MADE GROUND: Loose grey brown CLAY with rootlets.
0.40	D					MADE GROUND: Loose dark grey very clayey gravelly SAND. Gravel is angular fine and medium of brick, timber, tree roots, rope, metal fragments and inclusions of grey clay.
			1.00			MADE GROUND: Slightly compact dark grey clayey sandy GRAVEL of crushed brick and concrete with inclusions of wire, plastic and metal fragments.
1.30	D					
			1.80			Hard. Unable to progress. Probably a concrete floor slab. Some intact brickwork noted in the corner of the trial pit.
			1.82			Trialpit Complete at 1.82 m

1
2
3
4

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP2
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m, Depth 2.00m, 0.80m	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						Grass over MADE GROUND: Loose grey brown sandy gravelly CLAY with roots and rootlets. Gravel is angular fine and medium of brick, mudstone, sandstone and rare coal fragments.
0.40	D					
			1.40			Stiff brown mottled grey silty sandy slightly gravelly friable CLAY. Gravel is angular fine of highly weathered mudstone.
1.50	D					
1.60	IPP 1	220				
1.60	D					
			1.90			Weak brown grey highly weathered MUDSTONE.
			2.00			Trialpit Complete at 2.00 m

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP3
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m, Depth 2.80m, 0.80m	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40	D					Grass over MADE GROUND: Loose black to dark grey clayey very gravelly SAND. Gravel is angular fine to coarse of brick (whole and crushed), concrete, sandstone, roots and timber. Some intact brickwork noted in sides of pit.
			1.00			MADE GROUND: Brown and dark brown very sandy gravelly CLAY. Gravel is angular fine and medium of brick and ceramic fragments.
1.20	D					Lump of concrete and some intact brickwork in western end of trial pit - Possibly an old footing.
			2.30			Stiff brown mottled grey slightly gravelly CLAY. Gravel is angular fine and medium of weathered mudstone.
2.50	D					
			2.80			Trialpit Complete at 2.80 m

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP4
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m, Depth 2.00m, 0.80m	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.50	D					Grass over MADE GROUND: Loose grey clayey gravelly SAND. Gravel is angular fine to coarse of bricks, concrete, some clinker, ash , timber and roots.
			1.20			Stiff grey brown very sandy friable CLAY.
1.40	D					
1.50	IPP 1	250				
			1.90			Weak grey brown friable MUDSTONE.
			2.00			Trialpit Complete at 2.00 m

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP5
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m	Scale 1:25
		Depth 1.80m, 0.80m	
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	D					Vegetation over MADE GROUND: Moderately compact dark grey ashy gravelly SAND with rootlets. Gravel is angular fine and medium brick, sandstone, occasional clinker and coal/carbonaceous mudstone fragments.
			0.50			
0.60	D					Stiff grey brown sandy friable CLAY
1.00	IPP 1	250				
1.00	D					
			1.50			Weak grey highly weathered friable slightly silty MUDSTONE.
			1.80			Trialpit Complete at 1.80 m

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP6
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m, Depth 2.10m, 0.80m	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.15			Grass over MADE GROUND: Loose brown clayey gravelly SAND. Gravel is angular fine and medium of sandstone and brick with roots and rootlets.
			0.25			MACADAM.
0.40	D					MADE GROUND: Moderately compact brown gravelly SAND. Gravel is angular fine and medium of brick, sandstone and occasional pockets of ash. Occasional timber and rootlets.
			1.30			Brown very clayey SAND.
1.50	D					
			1.60			Stiff brown mottled grey silty sandy CLAY.
2.00	IPP 1	250				
			2.10			Trialpit Complete at 2.10 m

Remarks: trial pit terminated on hard strata. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP7
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m (Depth 4.20m, 0.80m)	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	D					Grass over MADE GROUND: Moderately loose grey and brown sandy gravelly CLAY and clayey sandy GRAVEL of mudstone. Gravel is angular, fine and medium with localised iron staining. Occasional fragments of coal and carbonaceous mudstone/shale. Gravel becomes fine to coarse in size with depth and more compact (Possibly colliery spoil).
1.20	D					
			4.20			Trialpit Complete at 4.20 m

Remarks: trial pit terminated at limit of excavator reach. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Eastwood & Partners
CONSULTING ENGINEERS

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP8
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
King Street	39825	Level: -	29/04/2016
Location: Elsecar		Dimensions: 3.00m (Depth 3.80m, 0.80m)	Scale 1:25
Client: D J Atkinson Construction Ltd			Logged By AJK

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.60	D					Grass over MADE GROUND: Moderately loose grey and brown sandy gravelly CLAY and clayey sandy GRAVEL of mudstone. Gravel is angular, fine and medium with localised iron staining. Occasional fragments of coal and carbonaceous mudstone/shale and some inclusions of red shale. Gravel becomes fine to coarse in size with depth and more compact (Possibly colliery spoil).
			3.80			Trialpit Complete at 3.80 m

Remarks: trial pit terminated at limit of excavator reach. Backfilled with arisings.

Groundwater: None encountered

AGS

HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

Appendix 4

Geotechnical Test Results (PSL Report 2137)

LABORATORY REPORT

4043

Contract Number: PSL16/2137

Report Date: 17 May 2016

Client's Reference: 39825

Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Andrew Kerslake

Contract Title: King Street, Elsecar

Date Received: 12/05/2016
Date Commenced: 12/05/2016
Date Completed: 17/05/2016

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director)
A Watkins (Director)
L Knight (Senior Technician)



D Lambe (Senior Technician)
S Royle (Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP2		D	1.60		Brown mottled grey slightly gravelly sandy very silty CLAY.
TP5		D	1.00		Brown mottled grey slightly gravelly slightly sandy very silty CLAY.
TP8		D	0.60		Brown mottled grey slightly gravelly slightly sandy silty CLAY.

UKAS TESTING 4043	PSL Professional Soils Laboratory	Checked / Approved	Date 17/05/16	Contract No: PSL16/2137
		King Street, Elsecar		Client Ref: 39825

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

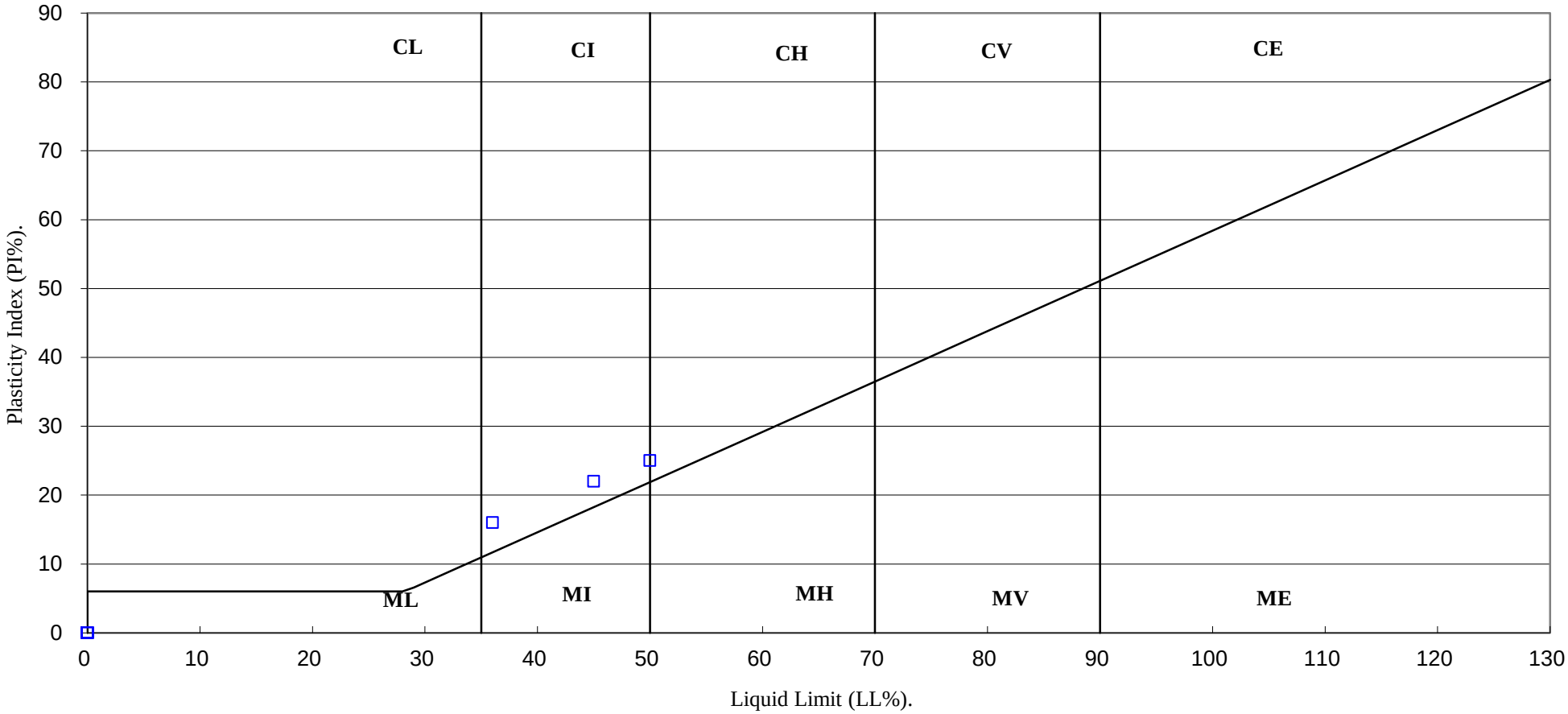
Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP2		D	1.60		18			36	20	16	95	Intermediate plasticity CI.
TP5		D	1.00		22			45	23	22	95	High plasticity CH.
TP8		D	0.60		25			50	25	25	96	High plasticity CH.

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043	PSL Professional Soils Laboratory	Checked / Approved	Date 17/05/16	Contract No: PSL16/2137
		King Street, Elsecar		Client Ref: 39825

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(BS5930 :2015)



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Checked /Approved**		**Date**	**17/05/16**	**Contract No:**
			King Street, Elsecar			**PSL16/2137**
						Client Ref:
						39825

Appendix 5

Soakaway Test Results

PROJECT:	King Street, Elsecar	Job No. 39825	Date 29.04.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared AJK	Checked PR

Test No. **SA1 (TP2)**

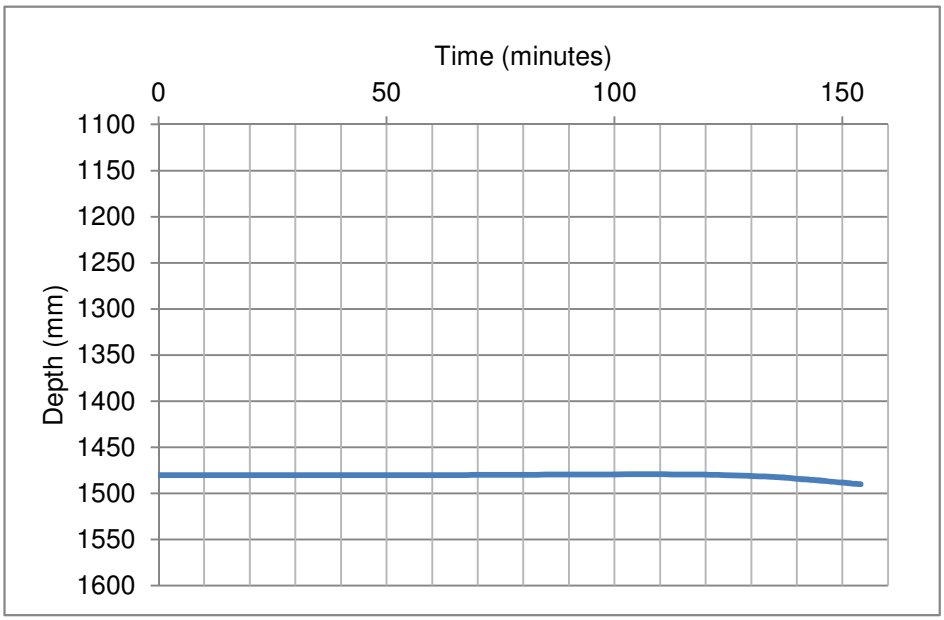
Test Pit Dimensions

Length = **3000** mm
Width = **800** mm
Depth = **2000** mm (Total depth)

Plan area = **2.4** m²

Approximate time to discharge water into the hole: **30** Seconds
Depth to water after completion of pumping: **1480** mm

Time (min)	Depth (mm)
0	**1480**
10	**1480**
20	**1480**
35	**1480**
66	**1480**
124	**1480**
154	**1490**



Test Pit Log

Depth (m)	Description
0.0-1.4	MADE GROUND
1.4-1.9	Sandy CLAY.
1.9-2.0	MUDSTONE

PROJECT:	King Street, Elsecar	Job No. 39825	Date 29.04.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared AJK	Checked PR

Test No. SA1 (TP2)

Soil Infiltration Rate in Accordance with BR365

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

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 = **1480** mm
Start time = **0** min

Average water depth: **515** mm

Change in water depth: **10** mm

Final parameters

Depth to water = **1490** mm
End time = **154** min

Time interval: **154** min

Effective Storage Volume of Water in the Trial Pit = **1.248** m³
75% Effective Depth = **1610** mm from ground level
25% Effective Depth = **1870** mm from ground level
Time at 75% Effective Depth = **-** minutes
Time at 25% Effective Depth = **-** minutes

V_{p75-25} = **0.62** m³

a_{p50} = **4.38** m²

t_{p75-25} = **0** sec

f = **#DIV/0! m/sec**

Average Soakaway Rate = **2.6E-06** m³/sec
Average soakaway area = **6.31** m² (sides + base)

BR365 Soil Infiltration Rate = #DIV/0! m/sec
Average Infiltration Rate = 4.1E-07 m/sec

EASTWOOD & PARTNERS **Sheet 1 of 2**
(Consulting Engineers) Ltd

PROJECT:	King Street, Elsecar	Job No. 39825	Date 29.04.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared AJK	Checked PR

Test No. **SA2 (TP5)**

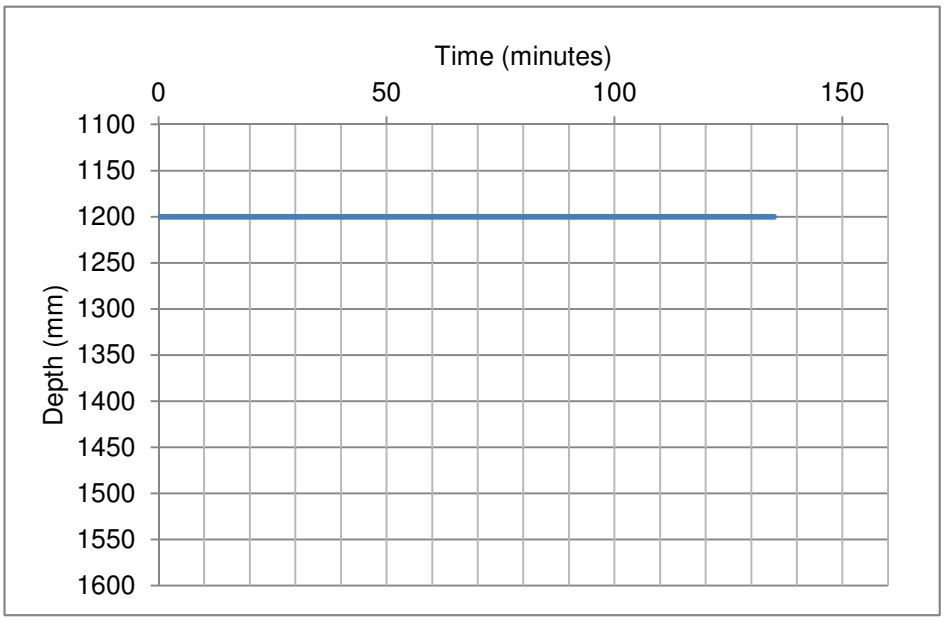
Test Pit Dimensions

Length = **3000** mm
Width = **800** mm
Depth = **1800** mm (Total depth)

Plan area = **2.4** m²

Approximate time to discharge water into the hole: **30** Seconds
Depth to water after completion of pumping: **1200** mm

Time (min)	Depth (mm)
0	**1200**
10	**1200**
25	**1200**
40	**1200**
70	**1200**
100	**1200**
135	**1200**



Test Pit Log

Depth (m)	Description
0.0-0.5	MADE GROUND
0.5-1.5	Sandy CLAY.
1.5-1.8	MUDSTONE

PROJECT:	King Street, Elsecar	Job No. 39825	Date 29.04.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared AJK	Checked PR

Test No. SA2 (TP5)

Soil Infiltration Rate in Accordance with BR365

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

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 = **1200** mm
Start time = **0** min

Average water depth: **600** mm

Change in water depth: **0** mm

Final parameters

Depth to water = **1200** mm
End time = **135** min

Time interval: **135** min

Effective Storage Volume of Water in the Trial Pit = **1.44** m³
75% Effective Depth = **1350** mm from ground level
25% Effective Depth = **1650** mm from ground level
Time at 75% Effective Depth = **-** minutes
Time at 25% Effective Depth = **-** minutes

V_{p75-25} = **0.72** m³

a_{p50} = **4.68** m²

t_{p75-25} = **0** sec

f = **#DIV/0! m/sec**

Average Soakaway Rate = **0.0E+00** m³/sec
Average soakaway area = **6.96** m² (sides + base)

BR365 Soil Infiltration Rate = #DIV/0! m/sec
Average Infiltration Rate = 0.0E+00 m/sec

Appendix 6

Chemical Test Results (Chemtest Report 16-108382)

Table of Assessment Values

Chemtest
The right chemistry to deliver results
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report No.:	16-10382-1
Initial Date of Issue:	12-May-2016
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Geo Andrew Kerslake
Project	39825 - King Street, Elsecar

Quotation No.:		**Date Received:**	05-May-2016
Order No.:	39825	**Date Instructed:**	05-May-2016
No. of Samples:	10		
Turnaround (Wkdays):	5	**Results Due:**	11-May-2016
Date Approved:	12-May-2016		

Approved By:



Details: Robert Monk, Technical Development Chemist

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 39825 - King Street, Elsecar

Client: Eastwood & Partners		**Chemtest Job No.:**			16-10382	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382
Quotation No.:		**Chemtest Sample ID.:**			289690	289691	289692	289693	289694	289695	289696	289697	289698
Order No.: 39825		Client Sample Ref.:			TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6	TP7
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.40	0.40	0.40	0.50	1.40	0.60	0.40	1.50	0.30
		Date Sampled:			29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-	-	-			-		-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	20	21	21	17	17	17	11	19	9.6
Soil Colour	N	2040		N/A	Black	Black	Black	Brown	Beige	Beige	Brown	Beige	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Sand
pH	M	2010		N/A	8.2	8.0	8.2	8.0	7.9	7.5	8.4	7.7	4.8
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.11	< 0.010	0.018	< 0.010	< 0.010	0.042	0.071	0.012	< 0.010
Total Sulphur	M	2175	%	0.010	0.14	0.060	0.15	0.070	0.020	0.010	0.060	0.020	0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	0.050	0.022	0.075	0.042	0.010	< 0.010	0.040	0.013	< 0.010
Arsenic	M	2450	mg/kg	1.0	12	14	22	13	7.8	6.0	12	6.1	8.5
Cadmium	M	2450	mg/kg	0.10	0.17	0.20	0.28	0.17	< 0.10	< 0.10	0.21	0.12	0.22
Chromium	M	2450	mg/kg	1.0	8.9	50	71	19	24	22	26	22	21
Copper	M	2450	mg/kg	0.50	21	46	56	28	20	20	24	14	32
Mercury	M	2450	mg/kg	0.10	0.15	0.36	0.68	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	9.6	33	28	22	29	22	23	25	33
Lead	M	2450	mg/kg	0.50	41	79	110	45	23	12	40	21	23
Selenium	M	2450	mg/kg	0.20	0.26	0.66	0.91	0.57	0.28	< 0.20	< 0.20	0.40	0.32
Zinc	M	2450	mg/kg	0.50	78	270	140	87	80	56	65	70	94
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0				[C] < 1.0					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0				[C] < 1.0					
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5.0				[C] < 5.0					
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C16-C21	M	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0				[C] < 1.0					
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0				[C] < 1.0					
Total Aromatic Hydrocarbons	M	2680	mg/kg	5.0				[C] < 5.0					
Total Petroleum Hydrocarbons	M	2680	mg/kg	10				[C] < 10					

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 39825 - King Street, Elsecar

Client: Eastwood & Partners					**Chemtest Job No.:**	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382	16-10382
Quotation No.:					**Chemtest Sample ID.:**	289690	289691	289692	289693	289694	289695	289696	289697	289698
Order No.: 39825					Client Sample Ref.:	TP1	TP2	TP3	TP4	TP4	TP5	TP6	TP6	TP7
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.40	0.40	0.40	0.50	1.40	0.60	0.40	1.50	0.30
					Date Sampled:	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016	29-Apr-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Naphthalene	M	2800	mg/kg	0.10		3.5	0.76	1.0	0.79	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10		11	0.22	3.8	2.8	< 0.10	< 0.10	0.11	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10		2.2	0.27	1.5	0.19	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10		11	0.35	3.9	3.1	< 0.10	< 0.10	0.55	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10		78	4.7	40	16	< 0.10	< 0.10	4.1	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10		25	1.0	11	5.0	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10		80	6.6	54	15	< 0.10	< 0.10	3.7	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10		63	5.3	45	11	< 0.10	< 0.10	2.9	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10		40	2.9	24	6.2	< 0.10	< 0.10	1.0	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10		34	2.0	20	4.4	< 0.10	< 0.10	0.73	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10		36	2.7	27	5.9	< 0.10	< 0.10	0.81	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10		14	0.53	9.4	1.7	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10		34	2.3	26	6.2	< 0.10	< 0.10	0.61	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10		17	0.84	15	2.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10		4.9	< 0.10	2.8	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10		14	0.94	12	2.4	< 0.10	< 0.10	0.20	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0		470	31	300	84	< 2.0	< 2.0	16	< 2.0	< 2.0

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 39825 - King Street, Elsecar

Client: Eastwood & Partners			**Chemtest Job No.:**		16-10382
Quotation No.:			**Chemtest Sample ID.:**		289699
Order No.: 39825			Client Sample Ref.:		TP7
			Sample Type:		SOIL
			Top Depth (m):		1.20
			Date Sampled:		29-Apr-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected
Moisture	N	2030	%	0.020	15
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Clay
pH	M	2010		N/A	8.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010
Total Sulphur	M	2175	%	0.010	0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	1.1
Cadmium	M	2450	mg/kg	0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	21
Copper	M	2450	mg/kg	0.50	41
Mercury	M	2450	mg/kg	0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	58
Lead	M	2450	mg/kg	0.50	67
Selenium	M	2450	mg/kg	0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	110
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	
Aromatic TPH >C16-C21	M	2680	mg/kg	1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	
Total Aromatic Hydrocarbons	M	2680	mg/kg	5.0	
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 39825 - King Street, Elsecar

Client: Eastwood & Partners			**Chemtest Job No.:**		16-10382
Quotation No.:			**Chemtest Sample ID.:**		289699
Order No.: 39825			Client Sample Ref.:		TP7
			Sample Type:		SOIL
			Top Depth (m):		1.20
			Date Sampled:		29-Apr-2016
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Naphthalene	M	2800	mg/kg	0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample ID:	Sample Ref:	Sample ID:	Sampled Date:	Deviation Code(s):	Containers Received:
289693	TP4		29-Apr-2016	C	Plastic Tub 500g

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at our Coventry laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Inorganic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)
Arsenic	37
Cadmium	11
Chromium (III)	910
Chromium (VI)	6
Lead	200
Mercury	1.2
Nickel	180
Selenium	250
Copper	2400
Zinc	3700

Organic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	2.3	5.6	13
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Fluorene	170	400	860
Phenanthrene	95	220	440
Anthracene	2400	5400	11000
Fluoranthene	280	560	890
Pyrene	620	1200	2000
Benzo(a)anthracene	7.2	11	13
Chrysene	15	22	27
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	10
Benzo(a)pyrene	2.2	2.7	3.0
Dibenz(a,h)anthracene	0.24	0.28	0.3
Indeno(1,2,3-cd)pyrene	27	36	41
Benzo(g,h,i)perylene	320	340	350
Benzene	0.087	0.17	0.37
Toluene	130	290	660
Ethylbenzene	47	110	260
o-Xylene	60	140	330
m-Xylene	59	140	320
p-Xylene	56	130	310

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Prepared	KDL	Checked	CAT	Date	05.07.16	Job No	39825

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KING STREET, ELSECAR

ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE

Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 6.5	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010. The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are 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. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They 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*'.

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TPH Fraction	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	42	78	160
Aliphatic EC >6-8	100	230	530
Aliphatic EC >8-10	27	65	150
Aliphatic EC >10-12	130 (48)[vap]	330 (118)[vap]	760 (283)[vap]
Aliphatic EC >12-16	1100 (24)[sol]	2400 (59)[sol]	4,300 (142)[sol]
Aliphatic EC >16-35	65,000 (8.48)[f,sol]	92,000 (21)[f,sol]	110,000[f]
Aliphatic EC >35-44	65,000 (8.48)[f, sol]	92,000 (21)[f,sol]	110,000[f]
Aromatic EC 5-7	70	140	300
Aromatic EC >7-8	130	290	660
Aromatic EC>8-10	34	83	190
Aromatic EC >10-12	74	180	380
Aromatic EC >12-16	140	330	660
Aromatic EC >16-21	260[f]	540[f]	930[f]
Aromatic EC >21-35	1,100[f]	1,500[f]	1,700[f]
Aromatic EC >35-44	1,100[f]	1,500[f]	1,700[f]

[f] oral, dermal, and inhalation exposure compared with oral HCV

[sol] S4UL presented exceeds the solubility saturation limit, which is presented in brackets

[vap] S4UL presented exceed the vapour saturation limit, which is presented in brackets

The assessment criteria for each of the petroleum hydrocarbon fractions have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. These are also all based on a sandy loam soil.

Within the Environment Agency Science Report P5-080/TR3, Askari, K. & Pollard, S., 2005 *'The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils'* it is stated that the assessment values should not be considered individually; instead the potential additive effects should be calculated. This is achieved by calculating an individual Hazard Quotient (HQ) for each fraction. The HQ is the proportion of the assessment concentration represented by the recorded concentration. The HQs are then added together to form a Hazard Index (HI) and where this exceeds unity a potential significant risk to human health may exist.

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