

Phase 1 Site Investigation

47 Wakefield Road, Lepton

Mr S Carter-Waller

14/10/2024

**PHASE 1 GEOTECHNICAL AND GEO-ENVIRONMENTAL
SITE INVESTIGATION**

74 WAKEFIELD ROAD, LEPTON,

FOR

MR S. CARTER-WALLER



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ISSUE 1

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1.0 EXECUTIVE SUMMARY

1. The site is located to the south west of Wakefield Road, to the north west of Lepton. This is to the south east of Huddersfield, in West Yorkshire. The site has an area of approximately 0.15 hectares, and is centred on grid reference 418560 415760.
2. The site is currently occupied by a single residential dwelling with private driveway and gardens. It is proposed to demolish the house and construct a single new property.
3. Historically, the site appears to have been occupied by the current house since at least 1855, with an extension added in the 1930s. The surrounding area has been mainly agricultural and residential in use over the past 150 years, with a small colliery located to the north in the 1800s, and clay pits associated with a brickworks to the west of the site throughout the 1900s.
4. The geology on the site is shown to comprise mudstone of the Pennine Lower Coal Measures. A named sandstone bed (The Grenoside Sandstone) is shown to directly underlie the site. No superficial deposits are recorded to be present and no faults are expected at surface.
5. The bedrock is classified as a Secondary A aquifer.
6. The Black Bed Coal is conjectured to outcrop a short distance to the west of the site, and is therefore expected to underlie the site at around 10 m bgl. The seam is worked in the Huddersfield area, but it is indicated to thin towards Highburton/Kirkburton to the south east of the site to around 0.5 m thick. There are no recorded workings in the seam, but unrecorded workings could be present. If the seam has been extracted, it is expected that there will be sufficient rock cover such that drilling and grouting should not be required. However, a borehole investigation is recommended to confirm the depth and thickness of the seam.
7. No radon precautions are required.
8. No significant risk of gas migration from the surrounding area onto the site has been identified. However, a risk of gas ingress from mine workings below the site (if present) may be presented. It is recommended that allowance for CS-2 gas protection measures should be made at this stage.

9. The ground conditions are expected to comprise topsoil over firm to stiff clay, with sandstone bedrock from moderate depth. Groundwater is not expected to be encountered at shallow depth.
10. For the proposed residential development, traditional strip or trench fill foundations are considered to be appropriate, constructed at a minimum depth of 900 mm. These will need to be deepened where existing, removed or proposed trees are within influencing distance. Heave protection will be required where the footing depth due to trees would exceed 1500 mm. If shallow mining has been undertaken below the site, the footings should be thickened to 450 mm (minimum) and a layer of B785 mesh should be included in the top and bottom of the footing.
11. Precast concrete floors with avoid below, or reinforced cast in-situ/suspended floors should be used.
12. Given the lack of previous development on the site, significant risk to human health from the existing soils are not considered to be presented.
13. A Phase 2 intrusive site investigation is not considered to be necessary, but some geotechnical testing of the natural clay soils is considered to be prudent to confirm the volume change potential of the soil and if any sulphate resisting measures are required for concrete.
14. At this stage, it would be assumed that DS2 sulphate resisting concrete is required.
15. The site is served by existing drainage systems for foul and surface water, and it is assumed that these will be retained for use by the replacement dwelling.
16. The conclusions made in this report are based on a desk-based study of available environmental information and are subject to agreement by the regulatory authorities.

2.0 INTRODUCTION

2.1 Terms of Reference

This report presents the findings of a Phase 1 Geotechnical and Geo-environmental Site Investigation carried out by Eastwood Consulting Engineers Limited for Mr S. Carter-Waller. 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

Eastwood Consulting Engineers are not aware of any site investigations having been undertaken on the site previously.

It is proposed to redevelop the site with a single residential property.

2.3 Aims and Objectives

The aims and objectives of this investigation were as follows:

- To assimilate and review information extracted from published documentation to derive an outline conceptual model identifying potential contaminants, pathways and receptors, as well as possible linkages between these;
- To detail the expected ground conditions and their geotechnical properties; and
- To outline proposals for a Phase 2 intrusive investigation, if required, the purpose of which would be to obtain information to test the conceptual model and assess the risks to receptors as well as to confirm the foundation proposals.

2.4 Scope of Investigation

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

Information has been obtained from a variety of sources and included the following:

- A Landmark Envirocheck;
- British Geological Survey maps and memoirs.

- A Coal Authority Consultants Coal Mining Report, and
- A site walkover.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be for residential use. The existing dwelling will be demolished, and a new house will be constructed in a similar footprint. The new building will be of conventional construction, and it is not expected that ground levels on the site will alter significantly. The external areas of the site will remain as private gardens with areas of hardstanding such as driveways being retained. If any of these assumptions are incorrect, then the advice given in this report may not be appropriate.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the documentary information examined. This report considers the ground and groundwater and does not cover any buildings or their fabric or the constituents of any existing hardstanding. Risks to ecological receptors, such as bats, have not been considered.

3.0 THE SITE

3.1 Description

The site is located to the south west of Wakefield Road, to the north west of Lepton. This is to the south east of Huddersfield, in West Yorkshire. The site has an area of approximately 0.15 hectares, and is centred on grid reference 418560 415760.

The main body of the site is approximately square in shape on plan, and is occupied by an existing dwelling, No. 74 Wakefield Road. This comprises a detached bungalow of masonry construction with a slate tiled roof. The area around the house is partly hard covered, as patio areas and paths, which are surfaced by flag stones and concrete. The remaining areas are soft landscaped as gardens, to the east and south of the house.

A gravel surfaced driveway is present along the northern boundary, which extends north east onto Wakefield Road. The driveway sweeps around along the western boundary, where a detached garage and a shipping container are present in the south western corner of the site.

A second shipping container is also located in the north at the time of the site walkover (7th September 2024). A static caravan was also present to the north of the house, and a mobile caravan and a number of vehicles were also stored on the driveway.

A trench had been excavated to the north of the house, presumably for the laying of services to serve the static caravan. The ground conditions in the trench comprised a veneer of topsoil overlying brown stiff natural clay.

The perimeter of the site is heavily vegetated with bushes and a number of trees of various species.

Overhead telecoms and electric cables cross the site on wooden poles.

The site is generally level. The land to the east and south falls away, with residential properties located down slope of the site to the south and west. Further residential properties are located to the north and south east along Wakefield Road. To the south of the site, an area of woodland is present.

3.2 History

Historical Ordnance Survey maps and aerial photography have been reviewed to assess the previous use of the site and surrounding area and are summarised in the table below. Copies of the maps are presented in the Appendix.

3.2.1 The Site

The earliest maps reviewed, dated 1855, show the site to be located within an area of fields. A dwelling is present in the centre of the site, named as Butter Nab. The larger scale map of 1894 shows a driveway/track leading to the house from what is now Wakefield Road to the north east. The house appears to be in the same location as the current dwelling, although smaller on plan. A field boundary runs through the site from north west to southeast (approx.) immediately to the rear of the house, with the area south west of this forming part of a larger field.

No significant changes in the site layout are noted until approximately 1930, when the house appears to have been extended to the north.

By 1961, a greenhouse is shown in the rear garden area. A track also runs along the western boundary. Two small outbuildings are also shown to the north west of the house, which may potentially be a garage.

The greenhouse is no longer shown by 1986. The boundary between the house and the garden is also no longer shown by this time.

Subsequent maps do not show any further significant changes to the site layout.

3.2.2 The Surrounding Area

The earliest mapping reviewed indicates the area immediately surrounding the site to be predominantly agricultural in use, comprising fields. Contour information suggests the ground levels to fall towards the west. A road (now Wakefield Road) is present to the north east of the site. A small colliery (Cowmes Colliery) is shown around 70 m north of the site, with one shaft being labelled. Occasional housing is present along Wakefield Road and surrounding roads, and a number of small sandstone quarries are present from around 300 m to the south of the site.

By 1893, the colliery to the north of the site is no longer shown, although the shaft remains, now labelled as an air shaft. Some spoil is indicated to the west of the shaft at this time. Allotment gardens are labelled from 100 m north of the site, and a railway line has been added around 300 m west of the site, running approximately north to south.

By 1907, the allotments to the north are no longer labelled. Spa Green Brick Works is now shown in this area, with the works buildings being around 350 m north west of the site. A small (clay) pit is adjacent to the works.

The brickworks had expanded by 1916, with additional buildings, chimneys and above ground tanks added. These were still over 280 m from the site. A tramway runs from the works towards the east, beneath Wakefield Road, where it joined to another tramway on the eastern side of the road. This tramway then runs north east to an unnamed mine around 1.5 km north east of the site. The air shaft to the north of the site is labelled as being 'old' by this time.

The tramways were removed between 1948 and 1956. By 1956, the clay pits associated with Spa Green Brick Works were expanded, and now lie within approximately 100 m of the site boundary. New clay pits were then developed to the west of the site, the nearest being within 30 m of the boundary. embankments are shown between the pits on the map dated 1961, although the subsequent map dated 1971 indicates one large pit to be present. Rock outcrops are indicated along the perimeter of the pit in the area nearest to the site.

Additional housing had been constructed immediately to the east of the site by 1961. Little change is then noted in the vicinity of the site until between 2000 and 2006, when the brickworks was removed and the clay pits were marked as disused. The clay pits were reprofiled after 2006, but appear to have been left at least partially un-filled, with new housing estates constructed just to the west of the site and also across the footprint of the other clay pits and former brickworks. A single dwelling was also added immediately north of the site.

No further changes are indicated in the immediate vicinity of the site after this time.

3.3 Geology

The British Geological Survey (BGS) Geology of Britain Online Viewer and BGS Map Sheet 247 SW (1:10,560 scale) shows the site to be underlain by strata of the Pennine Lower Coal Measures Formation. A named sandstone bed (The Grenoside Sandstone) is shown to directly underlie the site. The strata are indicated to dip towards the south east. No angles of dip are recorded in the immediate vicinity of the site, but the are to the north is noted as dipping at 3°.

No superficial deposits are shown to be present.

No faults or other lines of weakness are indicated to cross the site at surface.

There are no BGS borehole records within 100 m of the site.

3.4 Hydrogeology

The underlying bedrock 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.

The site is not within a Groundwater Source Protection Zone.

According to the Envirocheck there are no active water abstractions within 250 m of the site.

3.5 Hydrology

According to the Envirocheck, the nearest surface water feature is located 133 m south of the site. Reference to Ordnance Survey maps shows this to be a small pond within the wooded area to the south of the site. This is unlikely to be affected by activities on the development site.

3.6 Mining and Quarrying

Coal Mining

The site is located in an area which overlies coal measures strata, and as such coal seams of workable quality may be present beneath the site.

The geological maps show the strata to dip south east at around 3°. The shallowest seam of coal expected beneath the site is therefore the Black Bed Coal, which is recorded to outcrop around 30 m west of the site. The outcrop location is at a lower elevation than the site level, by around 8 to 9 m. The seam may therefore lie at a depth of around 10 m below surface beneath the western side of the site.

The geological memoirs for Huddersfield and Halifax record the Black Bed seam to be of high economic importance. It records the seam thickness to be variable across the Huddersfield/Halifax area, however, with the seam being split in the area around Kirkburton and Highburton (circa 1.3 miles south east of the site). The thickness in this area is recorded as being around 21 inches (0.53 m) in total, comprising a 9-inch upper leaf, a 3-inch dirt parting and a 9-inch lower leaf of coal.

The memoirs do not record definitive workings in the seam in the Lepton area, but the presence of Cowmes Colliery just north of the site on historical mapping (Section 3.2.2) may indicate that localised working has been undertaken.

The next seam of coal expected below the site is the Better Bed coal, around 45 m below the Black bed seam, and therefore at around 55 m below surface.

The site is within an area where a Coal Authority (CA) report is required. This has been obtained and is included in the Appendix.

According to the CA report, no past underground mining is recorded below the site. The site is within an area of probable unrecorded shallow workings, however.

No spline roadways are recorded to be present at shallow depth.

No faults, fissures or breaklines are recorded to cross the site.

There are two recorded mine entries within 100 m of the site boundary. One is a shaft, indicated in the position of the former Cowmes Colliery, just to the north of the site, on the eastern side of Wakefield Road at its junction with Chimney Lane. The shaft has been capped to an unknown specification. An above ground 'chimney' is present in this location, which may be the shaft structure.

The second mine entry is indicated to be an adit, located adjacent to the Cowmes Colliery shaft. No treatment details are available. However, we would note that the location and orientation of this adit matches the position of the road crossing to the former tramway linking the Spa Green Brick Works with a nearby colliery. The tramway was shown to pass below Wakefield Road immediately south of the recorded air shaft, and therefore the adit may represent the tramway tunnel.

It should be noted that the Coal Authority records may be incomplete and further, unrecorded, shafts may exist.

No open cast mines are recorded within 500 m of the site.

No claims for alleged mining related subsidence have been made on the site or on any property within 50 m since October 1994. No notices have been given under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence. The property is not within an area where a notice to withdraw support has been made.

No remediation sites are recorded within 50 m of the site boundary. The Coal Authority is not aware of any request having been made to carry out preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

There are no records of any mine gas emissions within 500 m of the site.

Based on the above information, there are no records of any mining having taken place in any seam of coal beneath the site, but the Black Bed seam may be present at shallow depth, which has the

potential to have been extracted. The seam is expected at round 10 m depth, and to be around 0.5 m thick.

For there to be no risk of mining voids migrating to surface, it is considered that there should be 10 times the seam thickness of competent rock cover from the base of the coal to the surface. In this case, that would equate to around 5 m of rock cover. This is expected to be achieved at this site. The bedrock is also recorded as being sandstone, which is less susceptible to collapse, should voids be present.

It is considered prudent to undertake at least 2 boreholes on the site to confirm the depth and thickness of the seam, but at this stage, it is not expected that remedial works would be required if workings are present.

Clay

Historical mapping shows that clay pits were present in the area immediately west of the site, serving a nearby brickworks. However, the pits are not shown by the maps to extend on to the site, with the current house having occupied the land since at least 1855. An open trench was observed on the site during the walkover, which showed undisturbed natural clay to be present from shallow depth.

The site is therefore not considered to have been affected by clay extraction.

3.7 Ground Gas

Radon

According to the Envirocheck, the site is in a lower probability radon area (i.e., less than 1% of homes are estimated to be at or above the action level). No radon protective measures are therefore required.

Landfill and other Ground Gases

According to the Envirocheck Report, there are no recorded or registered landfills within 500 m of the site.

The land to the north of the site, forming the current embankment alongside Wakefield Road, is recorded as being potentially infilled. This appears to relate to the reprofiling works undertaken in the early 2000s to allow residential development of this area following the abandonment of the previously clay pits. In addition, a small area appears to relation former colliery spoil heaps noted on the early historical mapping.

Neither of these potential gas sources is considered to present a significant risk to the site. The colliery spoil heap was a relatively small feature, and was above ground. Any gases generated by this material are unlikely to migrate down through the ground, and would much more likely vent straight to atmosphere. The spoil may have been removed in any case by the later reprofiling of this area.

The embankment is not considered to present a significant gas risk to the site for the same reason, in that it is a largely above ground or at least near to surface feature, from which any low levels of gas that were generated would more likely vent to atmosphere into the remaining valley side towards the north west, rather than travel through the ground eastwards towards the site. The soils are expected to be clayey in nature, and therefore will be of low permeability to gases. The depth of made ground in the embankment is not expected to be significant, with the historical maps indicating rock outcrops around the perimeter of the former clay pits, suggesting that natural ground would be present from shallow depth. Significant amounts of biodegradable or organic matter are not expected to be present in any fill placed, and the materials would be expected to be well compacted to stabilise the embankment, thus not including significant pore space for gases to exist.

The embankment is therefore considered to present only a very low risk of gas generation.

The site is in an area where shallow coal mining may be present. It is recommended that a borehole investigation is undertaken to confirm if voided ground is present below the site. If previous mining has been undertaken at shallow depth, then a potential risk of mine gas migration may exist. Gas monitoring may be required if this is the case, or alternatively, we would consider that gas resisting measures could be installed within the single proposed dwelling. These would include a fully lapped and sealed gas resistant membrane, and reinforced concrete floors, or beam and block floors with a ventilated void below, to comply with the requirements of Characteristic Situation 2 in accordance with BS8485 (2015) + A1 (2019).

3.8 Pollution Incidents to Controlled Waters

The Envirocheck indicates that one pollution incidents to controlled waters has been recorded within 250 m of the site. These comprised the release of oils (diesel) to a freshwater stream 138 m south of the site. No date for the incident is supplied, and it was recorded as a Category 3 Minor incident. This is not considered to present any risk to the proposed development.

3.9 Discharge Consents

According to the Envirocheck, there are no recorded discharge consents within 250 m of the site.

3.10 Local Authority Pollution Prevention and Controls

There are no recorded Local Authority prevention controls within 250 m of the site.

3.11 Flooding

The Envirocheck indicates that the site is located within flood zone 1, i.e. it is not at risk of flooding from rivers.

The site is not indicated to be at risk of surface water flooding.

The Envirocheck indicates that there is limited potential for ground water flooding to occur at surface.

3.12 Soil Geochemistry

The Envirocheck estimates the following concentrations of arsenic, cadmium, chromium, nickel and lead to be present in the soil at the site:

Contaminant	Estimated Soil Concentration (mg/kg)	Commercial End Use Assessment Value (mg/kg)
Arsenic	35 to 45	37
Cadmium	<1.8	11
Chromium	90 to 120	910
Lead	300 to 600	200
Nickel	30 to 45	180

The concentrations of arsenic and lead may therefore be naturally elevated within the soils at the site. However, the bioaccessibility of these metals is expected to be low, and therefore a significant risk to human health is not anticipated from these contaminants, if they are present.

3.13 Contemporary Trade Directory Entries, Commercial and Production Services and Fuel Station Entries

The Envirocheck indicates that there is one active trade entry within 250 m of the site. This comprises an electrical engineer registered to a residential address 113 m south west of the site. This is unlikely to present any risk to the site.

There are no petrol filling stations located within 250 m of the site.

There are no commercial services listed within 250 m of the site.

4.0 EXPECTED GROUND CONDITIONS

4.1 Surface Covering

The surfacing across the majority of the site is expected to comprise topsoil. This is not expected to be of significant thickness, given the residential use of the land for well over 100 years.

Limited areas of hardstanding are present, comprising sandstone paving and small concrete slabs. These are also not expected to be of significant thickness.

The existing driveway is gravel surfaced, but this is anticipated to be retained post development.

4.2 Made Ground

Significant depths of made ground are not expected to be present on the site, given the lack of previous development that has occurred. Made ground is generally expected to be restricted to driveway areas where material has been placed as surfacing. However, these areas are not expected to be replaced during the proposed development, and at worst, may become hard covered.

4.3 Natural Ground

The natural ground below the site is expected to comprise sandy clay, based on our observations during the site walkover. The clay deposits may extend for several meters below ground level, where sandstone bedrock is expected to be present.

4.4 Groundwater

Shallow groundwater is not anticipated to be present on the site, given its elevated location.

5.0 OUTLINE CONCEPTUAL MODEL

The site is to be developed with a single residential property to replace the current house. Private gardens will be included and the existing driveway is to be retained

5.1 Potential Sources of Contamination

Historically, the site is shown to have been occupied by the current dwelling since at least 1855, with the rear garden area having been agricultural in use until its incorporation into the property. No other development is shown on the site at any point in the past 150 years.

The surrounding area has had some industrial usage over the same period of time. A small colliery was previously located to the north of the site, and clay pits were located to the west. However, these features are not expected to be particularly contaminating to the site, with the clay pits remaining mostly unfilled after their abandonment in the early 2000s, with only localised reprofiling to suit new road and residential development layouts.

Significant amounts of made ground are therefore not anticipated to be present on the site, with the ground conditions expected to comprise mainly topsoil overlying natural sandy clay. The topsoil is expected to be retained within the current gardens for reuse, with the proposed new house replacing the existing bungalow.

BGS information indicates that the natural sandstone may naturally contain concentrations of arsenic and lead that are above residential assessment limits for human health. However, we would expect the bioaccessibility of these contaminants to be low, and as such a significant risk to human health would not be presented.

There are no tanks on the site and no indication of potential hydrocarbon impact on the current surfacing.

Due to the lack of development on the site, and the anticipated lack of made ground, it is not expected that any asbestos containing materials will be present within the soils.

5.2 Ground Gas

No radon protective measures are necessary in the construction of new buildings.

Significant depths of made ground are not expected to be present on the site. No recorded landfills are present within 250 m of the site. The land to the west includes some potentially filled ground, where embankments have been reprofiled and colliery spoil heaps were previously present. However, these features are not expected to present a significant risk of gas generation, and the

clayey spoils below the site will limit any migration. A significant risk of landfill gas migration from the surrounding area is not considered to be presented to the development.

Mine workings may be present at shallow depth below the site, and if present, these could potentially migrate upwards into the new dwelling. A borehole investigation is recommended to confirm if workings are present in the Black Bed Coal. Gas monitoring may be required if this is the case, or alternatively, we would consider that gas resisting measures could be installed within the single proposed dwelling. These would include a fully lapped and sealed gas resistant membrane, and reinforced concrete floors, or beam and block floors with a ventilated void below, to comply with the requirements of Characteristic Situation 2 in accordance with BS8485 (2015) + A1 (2019).

5.3 Potential Pollutant Linkages

The following table details the possible sources and associated contaminants of concern, pathways and receptors:

Source	Potential Contaminants	Potential Pathways	Potential Receptors
Made or natural ground	Sulphates Low pH	Direct Contact	Below ground concrete
Potential shallow mining	Mine gases (carbon dioxide, carbon monoxide, methane, hydrogen sulphide)	Migration through the ground	Site users and visitors to the site Buildings

5.4 Remedial Measures

Significant risk to human health from the soils on the site are not expected to be presented. However, some remedial measures may be required. At this stage, it is considered that allowance is made for the following:

- A minimum 150 mm thick topsoil layer in any new garden areas created. The existing site won topsoil is expected to be suitable to be reused.
- A minimum DS-2, AC-2 level of sulphate precautions for all below ground concrete structures; and
- For Characteristic Situation 2 gas protective measures in accordance with BS8485 (2015) + A1 (2019), which would typically comprise either a beam and block floor with ventilated void below or a reinforced suspended/cast in-situ concrete ground floor. A fully lapped and sealed gas resistant membrane is also to be included to provide a minimum of 3.5 protection points for a Type A (residential) structure as proposed.

6.0 GEOTECHNICAL APPRAISAL

6.1 General

Topsoil or localised hardstanding is generally anticipated to cover the surface of the site. Below this, firm to stiff clay is expected, with sandstone bedrock from moderate depth, maybe around 2 m bgl. Groundwater is not expected at shallow depth.

The Black Bed Coal may be present from around 10 m below surface. This may have been mined in the past. The seam is expected to be around 0.5 m thick in this area, and therefore, there is expected to be sufficient rock cover to the workings such that the risk of void migration and subsequent ground movement at surface is considered to be minimal. However, it is considered prudent to undertake a borehole investigation to prove this prior to construction.

If the seam is shallower, or thicker than expected, and if it is worked, then stabilisation by drilling and grouting may be necessary.

6.2 Foundations

For the proposed low rise residential development, it is considered that normal strip or trench fill footings will be suitable. These should be constructed within the natural clay at a minimum depth of 900 mm below current or proposed ground level, whichever is the lower.

If mine workings are present below the site, it would be prudent to include reinforcement in the foundations. This may comprise a layer of B785 mesh in both the top and the bottom of the footing. The footing should be a minimum of 450 mm thick if the reinforcement is required.

As the shallow soils are cohesive in nature, the footing depth will need to be increased in accordance with NHBC Chapter 4.2 guidance wherever existing or removed trees are within influencing distance of the foundation. Where competent sandstone is encountered, however, the footing depth will not need to increase any further.

All foundations should bear on to similar material to minimise the effects of potential differential settlement, otherwise they should be thickened and reinforced.

6.3 Ground Slabs

Significant thicknesses of made ground are not expected to be present on the site, and therefore a ground bearing slab can be considered where no tree influence is present. Some reinforcement of the slab should be allowed for to comply with the potential requirements for ground gas protection.

Precast beam and block floors with a sub-floor void of at least 250 mm could also be used.

6.4 Superstructure Precautions

Additional superstructure precautions are not considered necessary at this stage, based on the anticipated ground conditions. If historic mine workings are present at shallow depth, additional movement joints and bed joint reinforcement may be required.

6.5 Excavation Problems & Obstructions

Significant excavation issues are not expected on the site.

Temporary support will be required in accordance with current Health and Safety Regulations wherever access is required to trenches deeper than 1.2 m or less where there is a risk of collapse.

6.6 Surface Water Drainage

The existing dwelling is served by foul and surface water drainage systems. It is expected that these can be retained for use by the replacement house.

8.0 RECOMMENDATIONS FOR FURTHER WORK

Based on the findings of this Phase 1 report, it is not considered that a full Phase 2 geo-environmental investigation is required. Significant potential risks to the health of future site users have not been identified, with the exception of the potential migration of mine gases should coal workings be present at shallow depth.

Some geotechnical investigations are required, however. This will include the undertaking of at least two rotary boreholes on the site to confirm the depth, thickness and state of the Black bed Coal, expected at around 10 m depth. If the coal is worked, gas protection measures may need to be included in the new dwelling. The works will be subject to the granting of a suitable permit from the Coal Authority.

It would also be prudent to undertake geotechnical testing on samples of the natural clay, to confirm its volume change potential, in order that suitable recommendations for foundation depth can be made and any requirement for heave protection due to the existing trees on site can be determined. Sulphate testing may also be prudent, to determine if sulphate protection for buried concrete is necessary.

APPENDIX

Envirocheck Report

Historical Maps

Coal Authority Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

357153675_1_1

Customer Reference:

49246

National Grid Reference:

418570, 415770

Slice:

A

Site Area (Ha):

0.15

Search Buffer (m):

1000

Site Details:

Site at 418560, 415760

Client Details:

Mrs Mitchell
Eastwood & Partners Ltd
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	20
Hazardous Substances	22
Geological	23
Industrial Land Use	38
Sensitive Land Use	45
Data Currency	46
Data Suppliers	52
Useful Contacts	53

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

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 3			5	6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 5			2	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6		1	6	9
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 9			1	1
River Quality Biology Sampling Points	pg 9				1
Substantiated Pollution Incident Register	pg 9			1	1
River Quality Chemistry Sampling Points					
Water Abstractions	pg 10				4 (*17)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 15				1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15			6	26

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 20				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 20	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 20		3	1	9
Potentially Infilled Land (Water)	pg 21			1	3
Registered Landfill Sites	pg 21				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 22			1	
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 22			1	
Planning Hazardous Substance Consents	pg 22			1	
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 23	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 34		1	1	7
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 36	Yes	n/a	n/a	n/a
Mining Instability	pg 36	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 36				1
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 36	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 36		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 36	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 37		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 37		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 38		1	8	12
Fuel Station Entries	pg 39				2
Points of Interest - Commercial Services	pg 40			3	7
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 41		2	9	3
Points of Interest - Public Infrastructure	pg 42			4	11
Points of Interest - Recreational and Environmental	pg 43		4	4	3
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					
Areas of Adopted Green Belt	pg 45		1		
Areas of Unadopted Green Belt	pg 45		1		
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	418550 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (NE)	0	1	418569 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	38	1	418500 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	54	1	418600 415700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	83	1	418569 415650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	88	1	418450 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	92	1	418500 415650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	92	1	418500 415850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	98	1	418450 415800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	100	1	418600 415650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	122	1	418650 415650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	125	1	418450 415850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	138	1	418400 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	145	1	418400 415800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	166	1	418650 415600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	187	1	418500 415550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	188	1	418350 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	192	1	418700 415600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	195	1	418400 415900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	202	1	418450 415950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	256	1	418300 415850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	292	1	418250 415800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	303	1	418250 415850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	321	1	418250 415900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	333	1	418550 415400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	334	1	418300 415500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	338	1	418200 415750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	343	1	418250 415550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	345	1	418250 415950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	350	1	418200 415650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	372	1	418250 415500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	374	1	418250 416000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	386	1	418150 415770
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	410	1	418300 415400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	433	1	418569 415300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	435	1	418750 415350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	445	1	418200 416050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	451	1	418300 415350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	461	1	418700 415300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	472	1	418350 415300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	483	1	418569 415250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	484	1	418150 416050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Fenay Lane Cso Fenay Lane, Fenay Bridge, Huddersfield, West Yorkshire, Hd8 0ar Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra8434 Permit Version: 1 Effective Date: 31st March 2005 Issued Date: 28th February 2005 Revocation Date: 14th November 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay 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	A12SE (SW)	422	2	418150 415570
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Fenay Bridge Tank Cso Off Fenay Bridge Lane, Fenay Bridge, Huddersfield, West Yorkshire, Hd8 0ar Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wa6132 Permit Version: 3 Effective Date: 31st March 2022 Issued Date: 31st March 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	435	2	418158 415525
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Fenay Bridge Tank Cso Off Fenay Bridge Lane, Fenay Bridge, Huddersfield, West Yorkshire, Hd8 0ar Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wa6132 Permit Version: 2 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: 30th March 2022 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	435	2	418160 415520
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Fenay Bridge Tank Cso Off Fenay Bridge Lane, Fenay Bridge, Huddersfield, West Yorkshire, Hd8 0ar Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wa6132 Permit Version: 1 Effective Date: 10th August 1990 Issued Date: 10th August 1990 Revocation Date: 17th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay Beck Status: Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	435	2	418160 415520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Fenay Lane Cso Fenay Lane, Fenay Bridge, Huddersfield, West Yorkshire, Hd8 0ar Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra8434 Permit Version: 2 Effective Date: 15th November 2017 Issued Date: 15th November 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	475	2	418121 415508
3	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Almondbury Cso, Southfield Road, Huddersfield, West Yorkshire, Hd5 8rh Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra8424 Permit Version: 2 Effective Date: 15th November 2017 Issued Date: 15th November 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NE (W)	517	2	418038 415888
3	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Almondbury Cso, Southfield Road, Huddersfield, West Yorkshire, Hd5 8rh Authority: Environment Agency, North East Region Catchment Area: Calder Reference: Wra8424 Permit Version: 1 Effective Date: 31st March 2005 Issued Date: 28th February 2005 Revocation Date: 14th November 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fenay 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	A12NE (W)	525	2	418030 415890
4	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Baptist Lane Sso Baptist Lane, Ossett, Wakefield, -, Wf5 0hd Authority: Environment Agency, North East Region Catchment Area: Calder Reference: S/Cb/51 Permit Version: 3 Effective Date: 25th January 1995 Issued Date: 25th January 1995 Revocation Date: 5th March 1995 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A12NE (W)	619	2	417920 415790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Darnall Road Cso, Darnall Road, Sheffield, S9 5ah Authority: Environment Agency, North East Region Catchment Area: Calder Reference: S/Cb/51 Permit Version: 4 Effective Date: 6th March 1995 Issued Date: 25th January 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A12NE (W)	619	2	417920 415790
4	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Baptist Lane Sso Baptist Lane, Ossett, Wakefield, -, Wf5 0hd Authority: Environment Agency, North East Region Catchment Area: Calder Reference: S/Cb/51 Permit Version: 2 Effective Date: 2nd July 1993 Issued Date: 2nd July 1993 Revocation Date: 24th January 1995 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A12NE (W)	619	2	417920 415790
4	Discharge Consents Operator: Yorkshire Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Baptist Lane Sso Baptist Lane, Ossett, Wakefield, -, Wf5 0hd Authority: Environment Agency, North East Region Catchment Area: Calder Reference: S/Cb/51 Permit Version: 1 Effective Date: 27th May 1963 Issued Date: 27th May 1963 Revocation Date: 1st July 1993 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Varies With Outlet Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A12NE (W)	619	2	417920 415790
5	Local Authority Pollution Prevention and Controls Name: Clover Fire Surrounds Location: Fenway Business Park, Lepton, HUDDERSFIELD, West Yorkshire, HD8 0BB Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/33 Wood coating Status: Authorisation revoked Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	309	3	418267 415908
6	Local Authority Pollution Prevention and Controls Name: Elliots Bricks Ltd Location: Fenay Bridge Road, Fenay Bridge, HUDDERSFIELD, West Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/2 Manufacture of heavy clay goods and refractory goods Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	356	3	418219 415916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Local Authority Pollution Prevention and Controls Name: Co-Operative Group Location: Penistone Road, Waterloo, HUDDERSFIELD, West Yorkshire, HD5 8RL Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Ppc W 106 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A12SE (W)	559	3	417987 415648
7	Local Authority Pollution Prevention and Controls Name: Fenay Bridge Service Station Location: Penistone Road, Fenay Bridge, Huddersfield, HD5 8RL Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A12SE (W)	559	3	417987 415648
8	Local Authority Pollution Prevention and Controls Name: Wm Morrison Supermarkets Ltd Location: Penny Lane, Penistone Road, HUDDERSFIELD, HD5 8QW Authority: Kirklees Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC W 97 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	913	3	417800 416298
	Nearest Surface Water Feature	A13SW (S)	133	-	418537 415600
9	Pollution Incidents to Controlled Waters Property Type: Schools/Universities Location: Waterloo, HUDDERSFIELD Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Pollution Found; No Fish Killed Incident Date: Not Supplied Incident Reference: SL961192 Catchment Area: Calder Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A13SW (S)	138	2	418500 415600
10	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Industrial Effluent Note: Not Supplied Incident Date: 3rd September 1991 Incident Reference: 125870 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	A13NW (NW)	277	2	418300 415900
11	Pollution Incidents to Controlled Waters Property Type: Construction/Demolition Location: Mouth/Source Holme Af Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 22nd April 1991 Incident Reference: 121634 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	334	2	418300 415500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Industrial Effluent Note: Not Supplied Incident Date: 25th July 1991 Incident Reference: 124705 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	A12NE (W)	367	2	418200 415900
13	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 4th October 1989 Incident Reference: 103887 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	A12SE (SW)	412	2	418200 415500
14	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Quarry/Extraction Water Note: Not Supplied Incident Date: 2nd August 1993 Incident Reference: 146590 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	A12NE (W)	461	2	418100 415900
15	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Fenay Beck Authority: Environment Agency, North East Region Pollutant: Unknown Note: Fish Killed: No Information Incident Date: 17th January 1995 Incident Reference: SL950189 Catchment Area: Calder 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 (NW)	500	2	418100 416000
16	Pollution Incidents to Controlled Waters Property Type: Demolition Location: Fenay Beck Authority: Environment Agency, North East Region Pollutant: Unknown Note: Fish Killed: No Information Incident Date: 30th March 1995 Incident Reference: SL950421 Catchment Area: Calder 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)	557	2	418000 415900
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Mouth/Huddersfld Colne Afl Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 29th April 1994 Incident Reference: 150837 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	A8NE (S)	653	2	418700 415100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Huddersfld/Source Colne Afu Authority: Environment Agency, North East Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 7th April 1992 Incident Reference: 131982 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	A8SE (S)	657	2	418700 415095
18	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Huddersfld/Source Colne Afu Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 3rd July 1989 Incident Reference: 101078 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)	693	2	418100 416300
19	Pollution Incidents to Controlled Waters Property Type: Construction/Demolition Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 31st May 1990 Incident Reference: 111166 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	A12NE (NW)	724	2	417900 416100
20	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Bridge A642/Fenay Bridge Fenay Beck 04 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 8th January 1994 Incident Reference: 149574 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	A8SW (S)	733	2	418501 415001
21	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Footbdge, /Bridgee Nr Foot Ground Colne 05 Authority: Environment Agency, North East Region Pollutant: Cement/Mortar Note: Not Supplied Incident Date: 21st June 1989 Incident Reference: 100476 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	A12SW (W)	776	2	417800 415500
22	Pollution Incidents to Controlled Waters Property Type: Textile industry Location: Fenay Beck Authority: Environment Agency, North East Region Pollutant: Other Chemicals Note: Pollution Found; No Fish Killed Incident Date: Not Supplied Incident Reference: SL961327 Catchment Area: Calder Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	806	2	418201 415001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Construction/Demolition Location: Mouth/Source Fenay Beck Af Authority: Environment Agency, North East Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 31st May 1991 Incident Reference: 122852 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	A12SW (W)	968	2	417600 415500
	River Quality Name: Fenay_Beck/Shepley_Dike GQA Grade: River Quality B Reach: Woodsome_Rd_Ox_Field_Bec Estimated Distance (km): 2.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A12SE (SW)	353	2	418211 415604
	River Quality Name: Fenay_Beck/Shepley_Dike GQA Grade: River Quality B Reach: Upper_Cumberworth_Woodsome_R Estimated Distance (km): 9.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8SW (S)	975	2	418443 414763
24	River Quality Biology Sampling Points Name: Fenay Beck Reach: Woodsome Rd To Ox Field Beck Estimated Distance: 2.60 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2005 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2006 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2007 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2008 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2009 GQA Grade: River Quality Biology GQA Grade E - Poor	A8SW (S)	821	2	418458 414916
25	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 6th January 2017 Incident Reference: 1494123 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	A12SE (SW)	428	2	418164 415528
26	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 12th September 2002 Incident Reference: 107526 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: Oils - Diesel (Including Agricultural)	A12NE (W)	555	2	418018 415950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Water Abstractions Operator: Total Fitness Health Clubs Ltd Licence Number: 2/27/11/188/R01 Permit Version: 1 Location: Borehole - Lower Coal Measures - Huddersfield Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Total Fitness Uk Limited, Wakefield Road, Waterloo, Huddersfield Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	901	2	417876 416373
27	Water Abstractions Operator: Total Fitness 2010 Ltd Licence Number: 2/27/11/188 Permit Version: 3 Location: Borehole - Lower Coal Measures - Huddersfield Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Total Fitness Uk Limited, Wakefield Road, Waterloo, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th February 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	903	2	417880 416380
27	Water Abstractions Operator: Total Fitness Uk Ltd Licence Number: 2/27/11/188 Permit Version: 2 Location: Borehole - Lower Coal Measures - Huddersfield Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Total Fitness Uk Limited, Wakefield Road, Waterloo, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	903	2	417880 416380
27	Water Abstractions Operator: Total Fitness Uk Ltd Licence Number: 2/27/11/188 Permit Version: 1 Location: Borehole - Lower Coal Measures - Huddersfield Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Total Fitness Uk Limited, Wakefield Road, Waterloo, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	903	2	417880 416380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Jarmain & Sons Ltd Licence Number: 2/27/11/040 Permit Version: Not Supplied Location: Minerva Works, Crossley Lane, Kirkheaton, HUDDERSFIELD Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 2073 Yearly Rate (m3): 322766 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SW (NW)	1333	2	417700 416800
	Water Abstractions Operator: Woodsome Hall Golf Club Ltd Licence Number: Ne/027/0011/029 Permit Version: 1 Location: Borehole In Sandstone At Woodsome Hall Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 15th October 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1373	2	418356 414372
	Water Abstractions Operator: Reliance Precision Ltd Licence Number: 2/27/11/077 Permit Version: 104 Location: Borehole-Coal Measures-Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles & Leather: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418848 414310
	Water Abstractions Operator: Reliance Precision Ltd Licence Number: 2/27/11/077 Permit Version: 104 Location: Borehole-Coal Measures-Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418848 414310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Reliance Precision Ltd Licence Number: 2/27/11/077 Permit Version: 103 Location: Borehole-Coal Measures-Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles & Leather: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowley Mills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418850 414310
	Water Abstractions Operator: Reliance Precision Ltd Licence Number: 2/27/11/077 Permit Version: 103 Location: Borehole-Coal Measures-Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowley Mills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418850 414310
	Water Abstractions Operator: Reliance Precision Ltd Licence Number: 2/27/11/077 Permit Version: 102 Location: Borehole-Coal Measures-Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowley Mills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th April 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418850 414310
	Water Abstractions Operator: Reliance Gear Co Ltd Licence Number: 2/27/11/077 Permit Version: 101 Location: Borehole - Coal Measures - Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowley Mills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1456	2	418800 414300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Springwood Engineering Co Ltd Licence Number: 2/27/11/077 Permit Version: 100 Location: Borehole Authority: Environment Agency, North East Region Abstraction: Textiles And Leather: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 286 Yearly Rate (m3): 59098 Details: Rowley Mills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd December 1981 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1456	2	418800 414300
	Water Abstractions Operator: Woodsome Hall Golf Club Ltd Licence Number: 2/27/11/156 Permit Version: 101 Location: Pond - Woodsome Hall Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodsome Hall Golf Course Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 13th October 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1537	2	418010 414290
	Water Abstractions Operator: Woodsome Hall Golf Club Ltd Licence Number: 2/27/11/156 Permit Version: 100 Location: Pond - Woodsome Hall Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 41 Yearly Rate (m3): 6819 Details: Woodsome Hall Golf Course Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 16th December 1970 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SE (SW)	1569	2	417900 414300
	Water Abstractions Operator: Mr A Mallinson Licence Number: 2/27/11/078 Permit Version: 103 Location: Beldon Brook-Fenay Bridge-Huddersfield Authority: Environment Agency, North East Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1656	2	419190 414210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Reliance Gear Co Ltd Licence Number: 2/27/11/078 Permit Version: 102 Location: Beldon Brook - Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowleymills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th June 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SW (S)	1669	2	419200 414200
	Water Abstractions Operator: Reliance Gear Company Limited Licence Number: 2/27/11/078 Permit Version: 101 Location: Beldon Brook - Fenay Bridge Authority: Environment Agency, North East Region Abstraction: Machinery and Electronics: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rowleymills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1669	2	419200 414200
	Water Abstractions Operator: Springwood Engineering Co Ltd Licence Number: 2/27/11/078 Permit Version: 100 Location: Beldon Brook Authority: Environment Agency, North East Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 255 Yearly Rate (m3): 7728 Details: Rowleymills, Fenay Bridge, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 1980 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SW (S)	1669	2	419200 414200
	Water Abstractions Operator: Kirklees Metropolitan Council & Kirklees Countryside Unit Licence Number: 2/27/11/174 Permit Version: 100 Location: Woodsome Beck Authority: Environment Agency, North East Region Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 15 Yearly Rate (m3): 180000 Details: Dogley Nature Reserve, Penistone Road, Kirkburton, Huddersfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th July 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1928	2	418680 413810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Jarmain & Son Ltd Licence Number: 2/27/11/041 Permit Version: Not Supplied Location: Minerva Works, Crossley Lane, Kirkheaton, HUDDERSFIELD Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 436 Yearly Rate (m3): 27276 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21NE (NW)	1929	2	417500 417395
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined High Vulnerability: Productive Bedrock Aquifer, No Superficial Aquifer Combined Aquifer: High Pollutant Speed: Well Connected Fractures Bedrock Flow: 300-550 mm/year Dilution: >70% Baseflow Index: <90% Superficial Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A13SE (NE)	0	4	418569 415770
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (NE)	0	4	418569 415770
	Superficial Aquifer Designations No Data Available				
28	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A17SE (NW)	850	2	417915 416340
	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				
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	387	5	418175 415604

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 406.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	390	5	418155 415671
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	399	5	418156 415626
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 360.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	414	5	418204 415491
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	417	5	418157 415569
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 346.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	492	5	418293 415307
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	511	5	418265 415302
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	512	5	418065 415953
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (W)	522	5	418049 415555
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 649.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rushfield Dike Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	535	5	418267 415272

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 820.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A8NW (SW)	535	5	418267 415272
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12NE (W)	562	5	418013 415960
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	627	5	417973 416029
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 703.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fenay Beck Catchment Name: Aire and Calder Primacy: 1	A12NE (NW)	629	5	417972 416033
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8NE (S)	633	5	418795 415153
44	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	662	5	418704 415091
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	665	5	417930 415468
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	672	5	418690 415078
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	676	5	418685 415072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 375.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A12SE (SW)	681	5	417916 415459
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	691	5	418622 415047
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	691	5	418622 415047
51	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SE (S)	693	5	418633 415046
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	700	5	418476 415036
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	702	5	418453 415035
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	709	5	418456 415028
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	718	5	418551 415015
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19SW (NE)	719	5	419081 416342

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A8SW (S)	724	5	418532 415008
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 259.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A19NW (NE)	870	5	419093 416524
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	964	5	417956 414966
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 287.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rushfield Dike Catchment Name: Aire and Calder Primacy: 1	A7SE (SW)	964	5	417940 414978

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	Historical Landfill Sites Licence Holder: National Rivers Authority Location: Penistone Road, Huddersfield Name: Field adjacent to Spa Mills Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04245 First Input Date: 30th November 1990 Last Input Date: 31st March 1994 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4700/0824 BGS Ref: Not Supplied Other Ref: 4700/0870	A12NE (NW)	635	2	417965 416033
	Local Authority Landfill Coverage Name: Kirklees Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	418569 415770
62	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NW (N)	15	-	418557 415802
63	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NE (N)	82	-	418589 415890
64	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NW (NW)	159	-	418488 415926
65	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (S)	378	-	418682 415383
66	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (SE)	520	-	418790 415274
67	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NW (S)	602	-	418400 415148
68	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9NW (SE)	675	-	418940 415180
69	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8SE (S)	822	-	418863 414976
70	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NE (E)	849	-	419448 415823
71	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SE (NE)	856	-	419247 416366
72	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NE (N)	881	-	418723 416680
73	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A17NE (NW)	910	-	418109 416575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9SW (SE)	981	-	419182 414976
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SE (SE)	309	-	418720 415475
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	679	-	417860 415776
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SW (NW)	872	-	417814 416245
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18NW (N)	880	-	418354 416654
79	Registered Landfill Sites Licence Holder: National Rivers Authority Licence Reference: 870 Site Location: Adj. Spa Mills, Penistone Road, Huddersfield, West Yorkshire Licence Easting: 417900 Licence Northing: 416100 Operator Location: Rivers House, LEEDS, West Yorkshire, LS21 2QA Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1990 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Max.Deposit Permitted By Licence Uncontam. Excavation Waste	A12NE (NW)	724	2	417900 416100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	Control of Major Accident Hazards Sites (COMAH) Name: Elliotts Bricks Limited Location: Fenay Bridge Road, Fenay Bridge, HUDDERSFIELD, West Yorkshire, HD8 0A Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	396	7	418228 416006
81	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Elliotts Bricks Limited Location: Fenay Bridge, HUDDERSFIELD, West Yorkshire, HD8 0AX Status: Not Active Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	343	7	418232 415913
82	Planning Hazardous Substance Consents Name: Elliotts Bricks Ltd Location: Fenay Bridge Road, Lepton, Huddersfield, West Yorkshire, Hd8 0ba Authority: Kirklees Metropolitan Borough Council, Planning Services Application Ref: 92/50/05232/Co Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 180 Application date: 26th November 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	368	6	418226 415954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SE (NE)	0	1	418569 415770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SE (NE)	0	1	418569 415770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	6	1	418544 415787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	18	1	418603 415760
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SE (E)	73	1	418659 415748
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13NW (W)	124	1	418422 415806
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13NE (E)	189	1	418783 415848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	192	1	418569 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	215	1	418500 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (W)	244	1	418317 415862
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	245	1	418500 416033
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	264	1	418413 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	275	1	418644 416080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	276	1	418796 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SE (E)	292	1	418882 415728
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	336	1	418500 416129
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	346	1	418454 416123
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SW (E)	401	1	419000 415770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12SE (W)	403	1	418146 415645

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (W)	429	1	418124 415870
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SW (E)	437	1	419000 415625
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	482	1	418120 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SW (SE)	486	1	419000 415504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (W)	520	1	418020 415708
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (NW)	524	1	418073 416000

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (SW)	532	1	418071 415482
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (W)	534	1	418016 415869
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (W)	538	1	418000 415770
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	539	1	418500 416339
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (W)	539	1	418000 415777
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (W)	543	1	418000 415830

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12SE (W)	548	1	418000 415640
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SW (E)	552	1	419132 415659
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (W)	559	1	417984 415830
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	561	1	418031 416000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NE (W)	563	1	418002 415929
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	584	1	419149 416000

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 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SW)	586	1	418077 415374
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	628	1	417945 415963
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SW (SE)	629	1	419160 415504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (W)	663	1	417887 415620
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	673	1	419127 416224
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NW (SE)	677	1	419023 415238

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	678	1	418512 415055
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (SW)	681	1	418235 415124
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SE (NW)	696	1	418206 416384
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	716	1	419000 415170
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12SW (W)	723	1	417855 415500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	733	1	418535 415000

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	733	1	418569 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	734	1	418501 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (S)	736	1	418474 414999
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (SW)	736	1	418262 415051
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	739	1	418641 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	751	1	418700 414999

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	754	1	418719 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	759	1	418340 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NW (W)	767	1	417790 415924
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	775	1	418286 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A7SE (SW)	775	1	418186 415043
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A17SE (NW)	785	1	417954 416285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	786	1	418500 416588
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SE (NW)	853	1	417959 416389
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	855	1	418098 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SE (E)	889	1	419479 415674
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17NE (NW)	894	1	418000 416477
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (S)	898	1	418221 414893

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: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	920	1	417935 416456
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	921	1	419115 415000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14NE (E)	928	1	419522 415900
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	969	1	418856 416742
83	BGS Recorded Mineral Sites Site Name: Spa Green Location: Lepton, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 2572 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 100m	A13SW (W)	144	1	418400 415700
84	BGS Recorded Mineral Sites Site Name: Cowmes Side Location: Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94292 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	385	1	418686 415377

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	BGS Recorded Mineral Sites Site Name: Cowmes Top Location: Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94290 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	554	1	418821 415251
86	BGS Recorded Mineral Sites Site Name: Cowmes Top Location: Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94293 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	625	1	418847 415185
87	BGS Recorded Mineral Sites Site Name: Cowmes Top Location: Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94291 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	669	1	418933 415182
88	BGS Recorded Mineral Sites Site Name: Cowmes Top Location: Lepton, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94294 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	738	1	419076 415203
89	BGS Recorded Mineral Sites Site Name: Cowmes Top Location: Lepton, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94295 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	818	1	419140 415153
90	BGS Recorded Mineral Sites Site Name: Addle Croft Location: Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 109873 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	865	1	419263 416361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	BGS Recorded Mineral Sites Site Name: Rowley Location: Rowley Hill, Fenay Bridge, Huddersfield, West Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 94351 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Kirkburton Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	891	1	418876 414907
	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.	A13SE (NE)	0	8	418569 415770
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (NE)	0	-	418569 415770
	Man-Made Mining Cavities Easting: 418700 Northing: 416500 Distance: 699 Quadrant Reference: A18 Quadrant Reference: NE Bearing Ref: N Cavity Type: Not supplied Commodity: Fireclay Solid Geology Detail: No Details Superficial Geology Detail: No Details	A18NE (N)	699	9	418700 416500
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	6	1	418544 415787
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	20	1	418609 415779
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	56	1	418581 415862
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	66	1	418567 415673
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	81	1	418467 415800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	96	1	418579 415645
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	153	1	418538 415578
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	166	1	418538 415566
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	179	1	418771 415754
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	6	1	418544 415787
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	18	1	418603 415760
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	73	1	418659 415748
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	89	1	418493 415657
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	189	1	418783 415848
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	244	1	418317 415862
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	418569 415770
	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	A13SE (NE)	0	1	418569 415770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	Contemporary Trade Directory Entries Name: Tomsar Engineering Ltd Location: 35, CROFTFLAT DRIVE, FENAY BRIDGE, HUDDERSFIELD, HD8 0FS Classification: Electronic Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	418458 415654
93	Contemporary Trade Directory Entries Name: Elliotts Bricks Ltd Location: Elliotts Bricks Ltd, Fenay Bridge Road, Huddersfield, HD8 0AX Classification: Brick Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	339	-	418234 415908
94	Contemporary Trade Directory Entries Name: Shine On Cleaning Services Location: 1a, Fenay Bridge Road, Fenay Bridge, Huddersfield, HD8 0AX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	340	-	418309 415483
95	Contemporary Trade Directory Entries Name: A Shotton Ltd Location: Bridge Works, Fenay Lane, Fenay Bridge, Huddersfield, HD8 0FA Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	454	-	418128 415542
96	Contemporary Trade Directory Entries Name: Alpine Cooling Solutions Location: 7, Spa Bottom, Fenay Bridge, Huddersfield, West Yorkshire, HD8 0BB Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	457	-	418137 415977
97	Contemporary Trade Directory Entries Name: Gimborn Location: Unit 8, Franklyn Court, Greave House Terrace, Lepton, Huddersfield, HD8 0GB Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	468	-	418883 415393
97	Contemporary Trade Directory Entries Name: Cakes For The Connoisseur Location: Greave House Terrace, Lepton, Huddersfield, HD8 0DQ Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	468	-	418884 415394
97	Contemporary Trade Directory Entries Name: Colourcube Automotive Ltd Location: Unit 8, Franklyn Court, Greave House Terrace, Lepton, Huddersfield, HD8 0GB Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	468	-	418883 415393
98	Contemporary Trade Directory Entries Name: Lou Lomax Location: 17, Fenay Lea Drive, Waterloo, Huddersfield, HD5 8RR Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	493	-	418048 415701
99	Contemporary Trade Directory Entries Name: Clive Hoare Location: 249, Wakefield Road, Lepton, Huddersfield, HD8 0DL Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	503	-	418963 415423
100	Contemporary Trade Directory Entries Name: Confex Confectioners Location: 102, FENAY BRIDGE ROAD, FENAY BRIDGE, HUDDERSFIELD, HD8 0AY Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	517	-	418212 416165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	Contemporary Trade Directory Entries Name: Hurricane Roofing Location: 6, Greave House Terrace, Lepton, Huddersfield, HD8 0DQ Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	534	-	418924 415341
102	Contemporary Trade Directory Entries Name: Texaco Location: Penistone Road, Waterloo, Huddersfield, West Yorkshire, HD5 8RL Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A12SE (W)	559	-	417987 415648
103	Contemporary Trade Directory Entries Name: R N Golden Location: Wakefield Road, Lepton, HUDDERSFIELD, HD8 0DL Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	585	-	419078 415442
104	Contemporary Trade Directory Entries Name: B P Service Station Location: Waterloo, Huddersfield, West Yorkshire, HD5 8RL Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	587	-	417953 415711
105	Contemporary Trade Directory Entries Name: Aura Print Location: 109, Wakefield Road, Fenay Bridge, Huddersfield, West Yorkshire, HD8 0BG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	630	-	418160 416268
106	Contemporary Trade Directory Entries Name: Morrisons Petrol Station Location: Penny Lane, Penistone Road, Waterloo, Huddersfield, HD5 8QW Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	783	-	417927 416250
107	Contemporary Trade Directory Entries Name: American Spin Cast Location: 8, Lower Hall Road, Huddersfield, HD5 0AZ Classification: Foundries Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	824	-	418185 416521
108	Contemporary Trade Directory Entries Name: Oil Marketing Services Location: 7, Betula Way, Lepton, Huddersfield, HD8 0ET Classification: Oil Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	912	-	419101 415001
109	Contemporary Trade Directory Entries Name: B P Scrap Metal Location: 2, Ings Way East, Lepton, Huddersfield, HD8 0DT Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	932	-	419352 415227
110	Contemporary Trade Directory Entries Name: Generator Power Systems Location: 62, ROWLEY HILL, COMMON END LANE, LEPTON, HUDDERSFIELD, HD8 0JF Classification: Electricity Generating & Distributing Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (S)	978	-	418925 414834
111	Fuel Station Entries Name: Rss Fenay Bridge Location: Penistone Road , Fenay Bridge , Huddersfield, West Yorkshire, HD5 8RL Brand: Esso Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A12SE (W)	559	-	417987 415648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Fuel Station Entries Name: Morrisons Huddersfield Location: Penistone Road , Waterloo , Huddersfield, West Yorkshire, HD5 8QW Brand: MORRISONS Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	913	-	417801 416299
113	Points of Interest - Commercial Services Name: Colourcube Automotive Ltd Location: Unit 8b Franklyn Court, Greave House Terrace, Lepton, Huddersfield, HD8 0GB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	463	10	418884 415400
113	Points of Interest - Commercial Services Name: Cakes for the Connoisseur Location: Greave House Terrace, Lepton, Huddersfield, HD8 0DQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	468	10	418884 415394
113	Points of Interest - Commercial Services Name: Cakes for the Connoisseur Location: Greave House Terrace, Lepton, Huddersfield, HD8 0DQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	468	10	418884 415394
114	Points of Interest - Commercial Services Name: Rss Fenay Bridge Location: Fenay Bridge Service Station, Penistone Road, Waterloo, Huddersfield, HD5 8RL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SE (W)	559	10	417987 415648
114	Points of Interest - Commercial Services Name: Car Wash Location: Penistone Road, Fenay Bridge, Huddersfield, West Yorkshire, HD5 8RL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SE (W)	559	10	417987 415648
115	Points of Interest - Commercial Services Name: Morrisons Car Wash Location: Morrisons, Penny Lane, Waterloo, Huddersfield, HD5 8QW Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SE (NW)	734	10	417974 416231
116	Points of Interest - Commercial Services Name: Car Wash Location: Penistone Road, Waterloo, Huddersfield, West Yorkshire, HD5 8QT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SW (NW)	913	10	417801 416299
116	Points of Interest - Commercial Services Name: Morrisons Huddersfield Location: Penistone Road, Waterloo, Huddersfield, HD5 8QT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SW (NW)	933	10	417809 416343
117	Points of Interest - Commercial Services Name: B P Scrap Metal Location: 2 Ings Way East, Lepton, Huddersfield, HD8 0DT Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A9NE (SE)	932	10	419352 415227
117	Points of Interest - Commercial Services Name: B P Scrap Metal Location: 2 Ings Way East, Lepton, Huddersfield, HD8 0DT Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A9NE (SE)	932	10	419352 415227

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Points of Interest - Manufacturing and Production Name: Clay Pit Location: HD8 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	144	10	418556 415590
119	Points of Interest - Manufacturing and Production Name: Clay Pit Location: HD8 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	168	10	418371 415744
120	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	A13NW (NW)	290	10	418331 415964
120	Points of Interest - Manufacturing and Production Name: Tanks Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	357	10	418314 416041
120	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	A13NW (NW)	358	10	418289 416019
120	Points of Interest - Manufacturing and Production Name: Tank Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	392	10	418265 416043
121	Points of Interest - Manufacturing and Production Name: Tank Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	328	10	418843 416026
122	Points of Interest - Manufacturing and Production Name: Tank Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	366	10	418209 415918
122	Points of Interest - Manufacturing and Production Name: Tank Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	372	10	418214 415941
123	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	A12SE (SW)	454	10	418128 415541
123	Points of Interest - Manufacturing and Production Name: Works Location: HD8 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12SE (SW)	454	10	418128 415542
124	Points of Interest - Manufacturing and Production Name: Tank Location: HD8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	668	10	417960 415402

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Points of Interest - Manufacturing and Production Name: Tandem Industrial Estate Location: HD5 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	915	10	417985 416493
126	Points of Interest - Manufacturing and Production Name: Lion Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	970	10	419026 414889
127	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: HD8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	461	10	418141 415502
127	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: HD8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	474	10	418129 415496
127	Points of Interest - Public Infrastructure Name: Outfall Location: HD8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	478	10	418120 415505
127	Points of Interest - Public Infrastructure Name: Outfall Location: HD8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	481	10	418115 415507
128	Points of Interest - Public Infrastructure Name: BP Service Station Location: Penistone Road, Waterloo, Huddersfield, West Yorkshire, HD5 8RL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SE (W)	558	10	417988 415648
128	Points of Interest - Public Infrastructure Name: BP Service Station Location: Penistone Road, Waterloo, Huddersfield, HD5 8RL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SE (W)	559	10	417987 415648
128	Points of Interest - Public Infrastructure Name: Cooperative Group Fenaybridge Location: Penistone Road, Waterloo, Huddersfield, HD5 8RL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SE (W)	559	10	417988 415649
128	Points of Interest - Public Infrastructure Name: Co-Op Fenay Bridge Location: Penistone Road, Fenay Bridge, Huddersfield, HD5 8RL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SE (W)	559	10	417987 415648
128	Points of Interest - Public Infrastructure Name: Texaco Location: Penistone Road, Waterloo, Huddersfield, HD5 8RL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SE (W)	561	10	417986 415647
129	Points of Interest - Public Infrastructure Name: Weirs Location: HD5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	667	10	417952 416078

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	Points of Interest - Public Infrastructure Name: Weirs Location: HD5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	670	10	417948 416077
130	Points of Interest - Public Infrastructure Name: Weir Location: HD8 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	865	10	418433 414874
130	Points of Interest - Public Infrastructure Name: Weir Location: HD8 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	867	10	418428 414873
131	Points of Interest - Public Infrastructure Name: Morrisons Huddersfield Location: Penistone Road, Waterloo, Huddersfield, HD5 8QT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	913	10	417801 416299
131	Points of Interest - Public Infrastructure Name: Morrisons Petrol Station Location: Penny Lane, Penistone Road, Waterloo, Huddersfield, HD5 8QW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SW (NW)	914	10	417799 416297
132	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	48	10	418498 415709
133	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	195	10	418344 415744
134	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	218	10	418339 415848
135	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	227	10	418387 415931
136	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	259	10	418375 415533
137	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	276	10	418302 415593
138	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	315	10	418240 415860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	354	10	418273 415996
140	Points of Interest - Recreational and Environmental Name: Playground Location: Mereside, HD5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12NE (NW)	598	10	418013 416046
141	Points of Interest - Recreational and Environmental Name: Skatepark Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	681	10	419148 415373
141	Points of Interest - Recreational and Environmental Name: Play Area Location: HD8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	768	10	419215 415317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	Areas of Adopted Green Belt Authority: Kirklees Metropolitan Borough Council Plan Name: Kirklees Unitary Development Plan Status: Adopted Plan Date: 1st March 1999	A13NE (E)	13	12	418616 415779
143	Areas of Unadopted Green Belt Authority: Kirklees Metropolitan Borough Council Plan Name: Kirklees Local Plan Status: Submission Draft Plan Date: 25th April 2017	A13NE (E)	13	12	418616 415779

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services Wakefield City Metropolitan District Council - Environmental Health	November 2023 October 2017 October 2017 October 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	July 2024	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	
Integrated Pollution Controls Environment Agency - North East Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North East Region	July 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control Kirklees Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	April 2014 December 2020 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Kirklees Metropolitan Borough Council - Environmental Health Department Calderdale Metropolitan Borough Council - Environmental Health Wakefield City Metropolitan District Council - Environmental Health	April 2014 December 2020 December 2020	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Kirklees Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health Calderdale Metropolitan Borough Council - Environmental Health	April 2014 June 2014 October 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	June 2024	
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	
Registered Radioactive Substances Environment Agency - Head Office Environment Agency - North East Region	May 2023 May 2023	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2024 April 2024	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	July 2024	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	July 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	August 2024	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	August 2024 August 2024	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2024 July 2024	Quarterly Quarterly
Local Authority Landfill Coverage Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services Wakefield City Metropolitan District Council - Environmental Health	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Calderdale Metropolitan Borough Council - Environmental Health Kirklees Metropolitan Borough Council - Planning Services Wakefield City Metropolitan District Council - Environmental Health	October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	June 2015 June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Kirklees Metropolitan Borough Council - Planning Services Calderdale Metropolitan Borough Council Wakefield City Metropolitan District Council	August 2015 February 2016 July 2023	Variable Variable Variable
Planning Hazardous Substance Consents Kirklees Metropolitan Borough Council - Planning Services Calderdale Metropolitan Borough Council Wakefield City Metropolitan District Council	August 2015 February 2016 February 2016	Variable Variable Variable

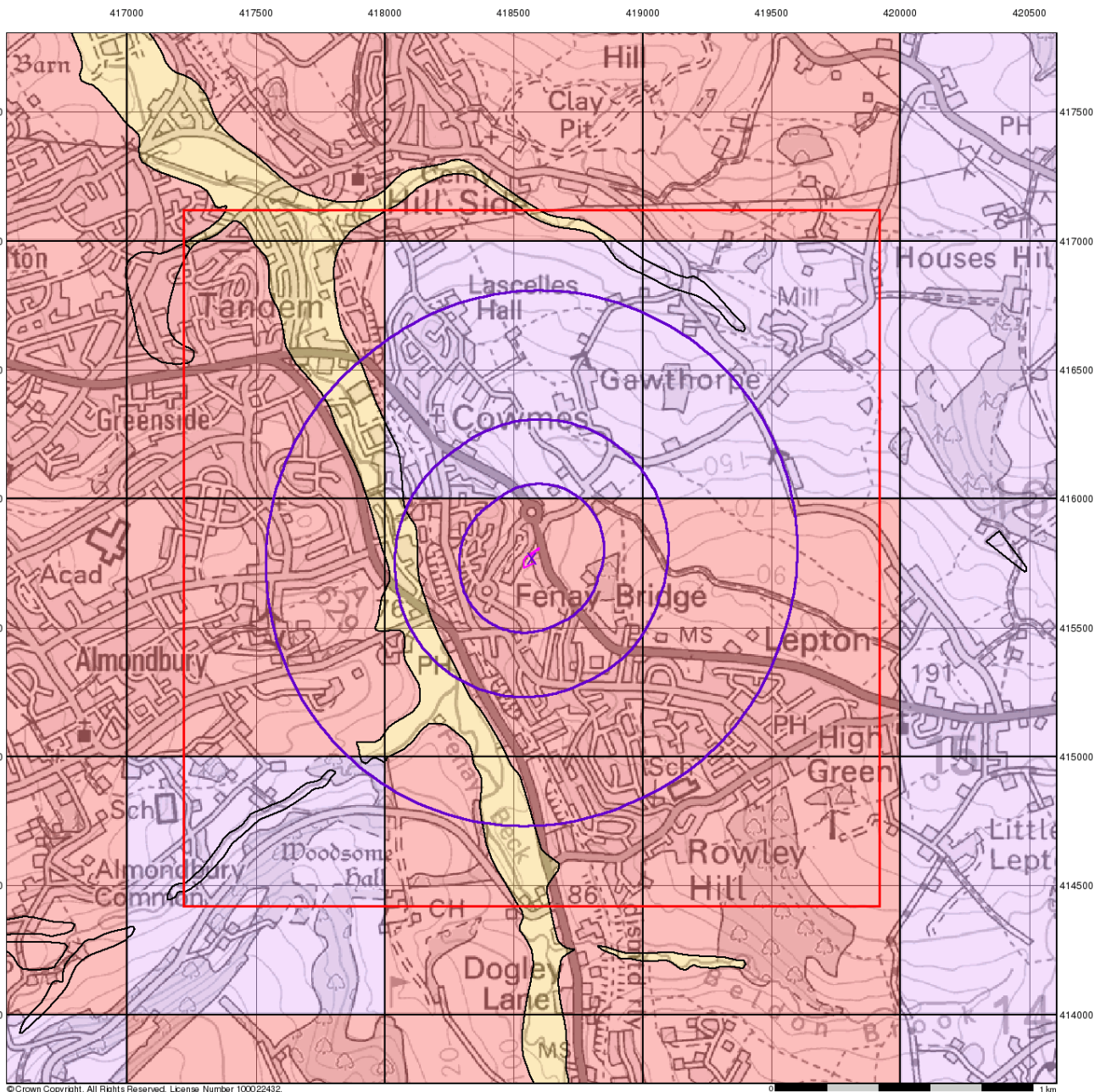
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	January 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	June 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	September 2024	Quarterly
Points of Interest - Education and Health PointX	September 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2024	Quarterly
Points of Interest - Public Infrastructure PointX	September 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt Calderdale Metropolitan Borough Council Kirklees Metropolitan Borough Council Wakefield City Metropolitan District Council	July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Calderdale Metropolitan Borough Council Kirklees Metropolitan Borough Council Wakefield City Metropolitan District Council	July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	May 2024	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	August 2024	Bi-Annually
Marine Nature Reserves Natural England	August 2024	Bi-Annually
National Nature Reserves Natural England	August 2024	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 April 2024	Bi-Annually
Ramsar Sites Natural England	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2024	Bi-Annually
Special Areas of Conservation Natural England	April 2024	Bi-Annually
Special Protection Areas Natural England	April 2024	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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

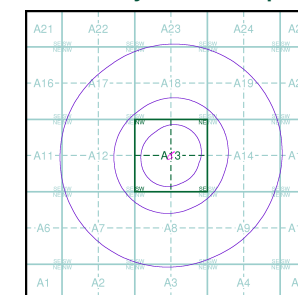
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

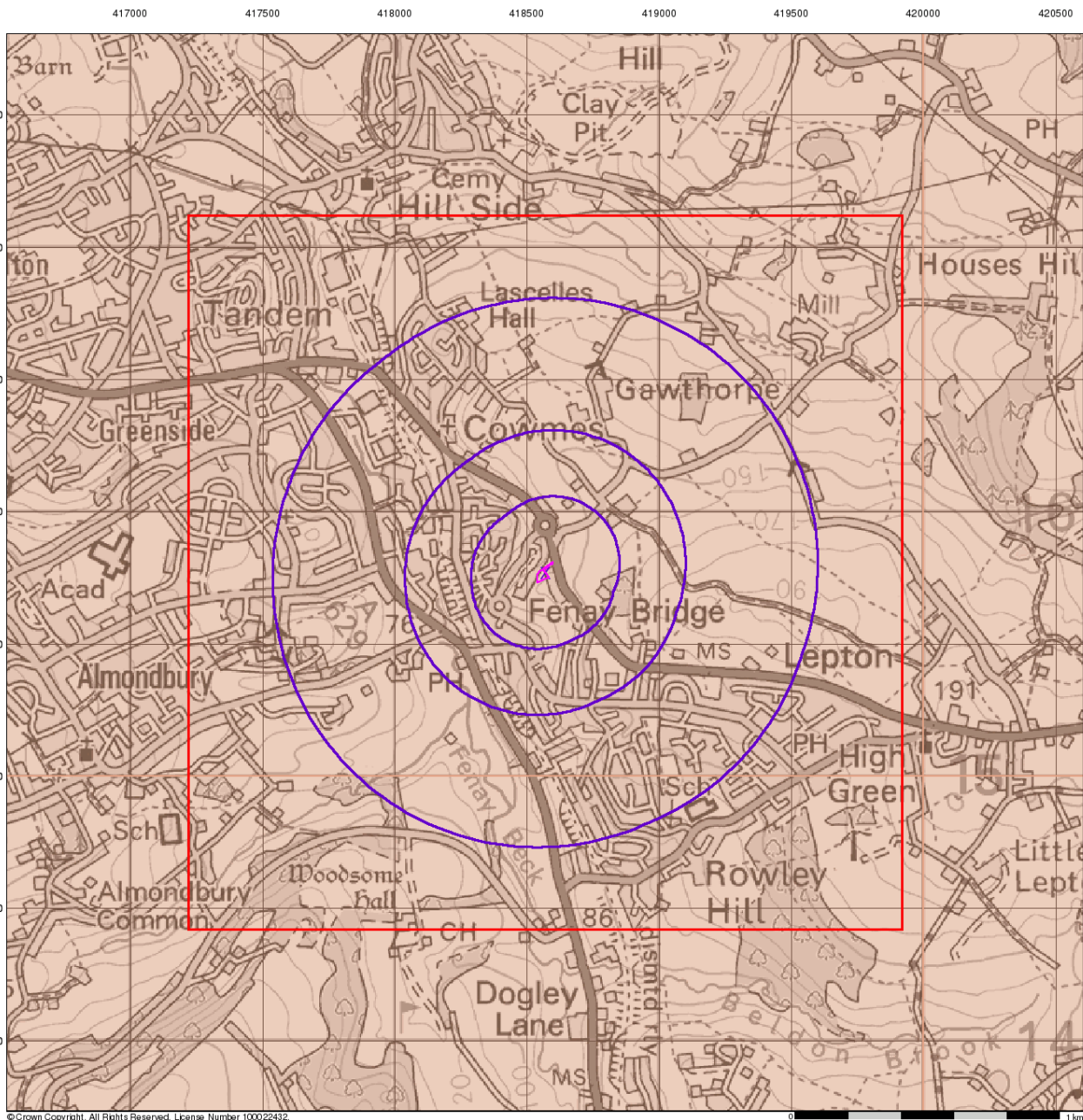
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 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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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

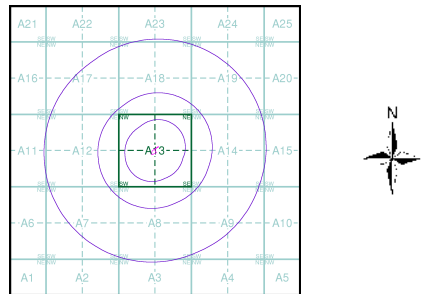
Secondary Undifferentiated

Unproductive Strata

Unknown

Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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National Grid Reference: 418570, 415770

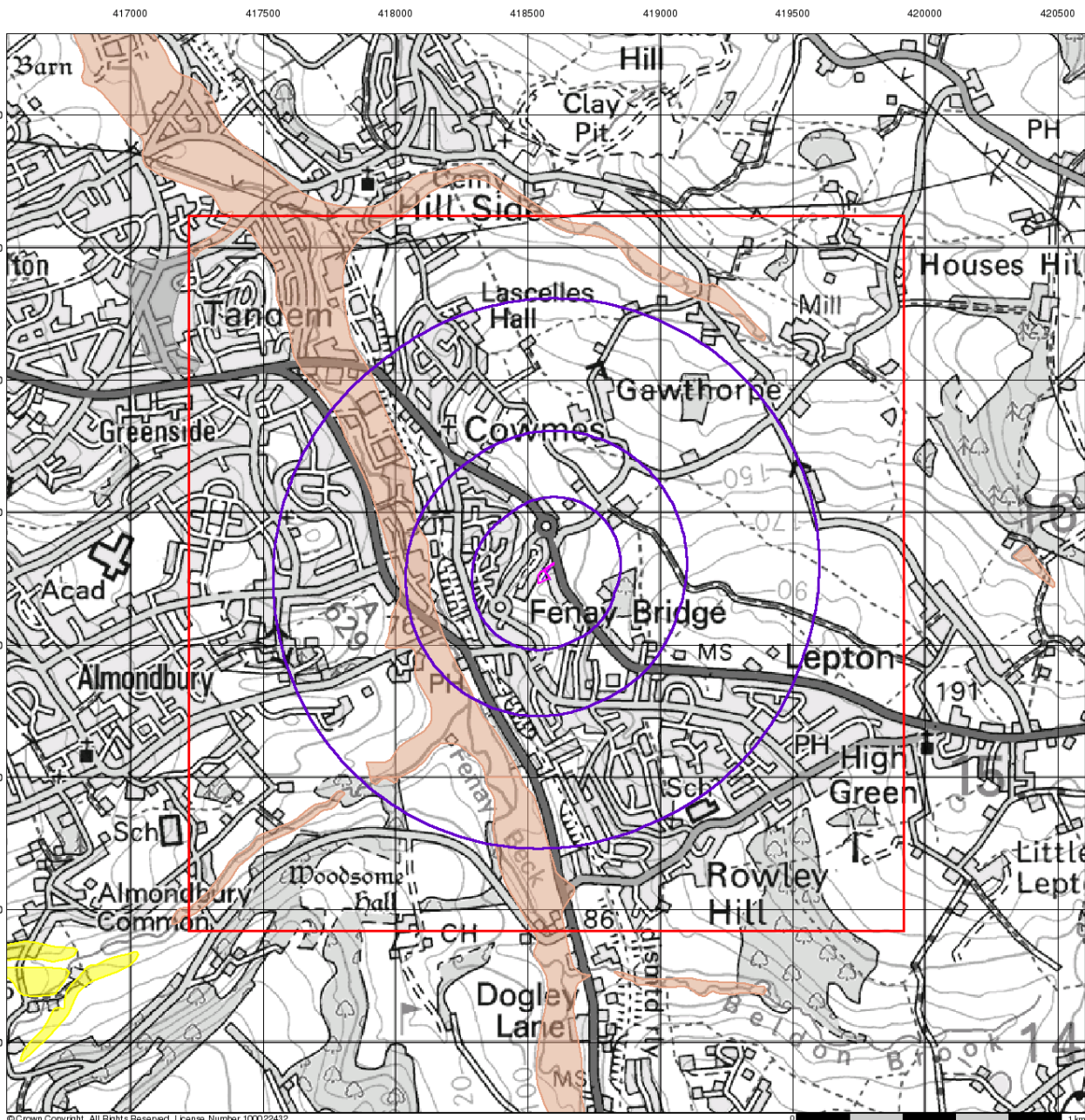
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Site Area (Ha): 0.15

Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

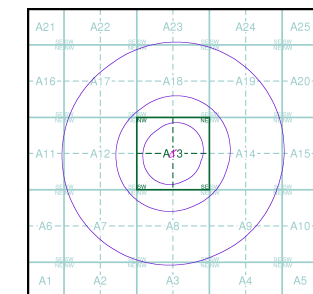
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- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

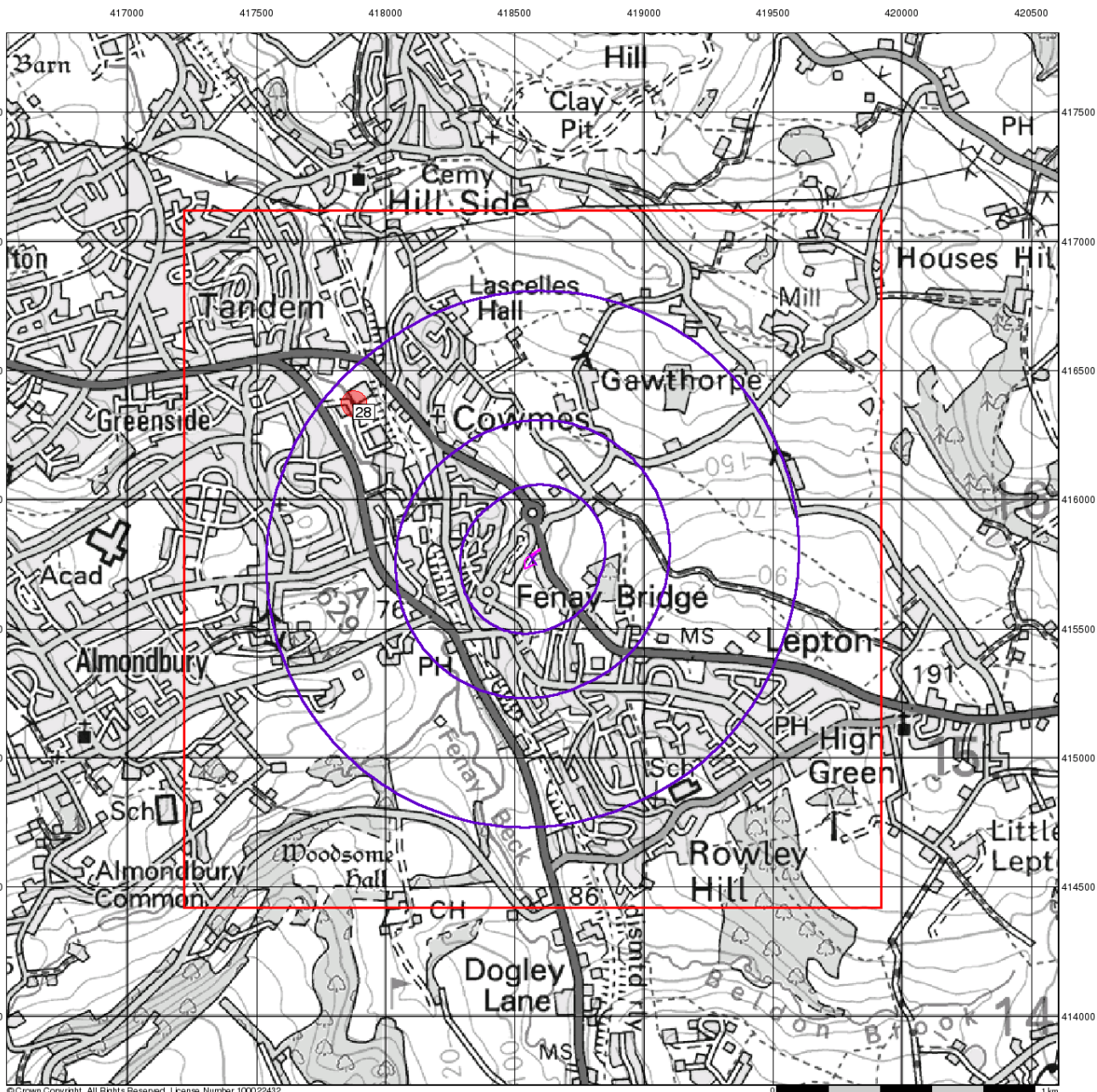
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 Search Buffer (m): 1000

Site Details

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Source Protection Zones

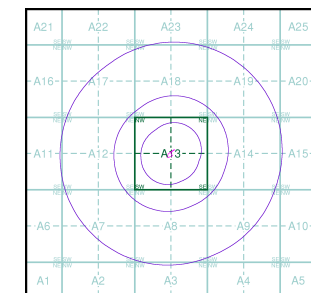
General

- 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)

Site Sensitivity Context Map - Slice A



Order Details

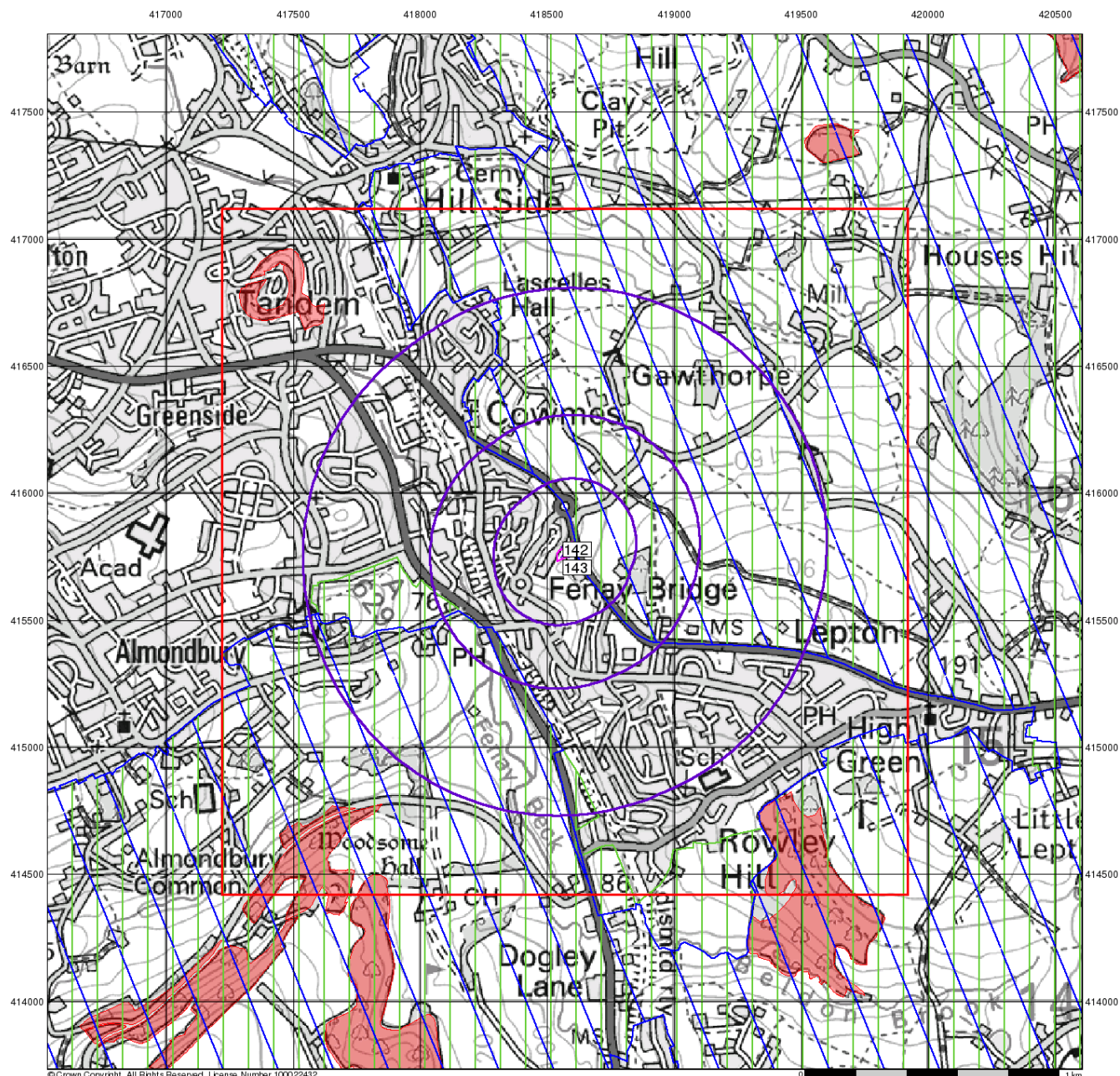
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 Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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Sensitive Land Uses

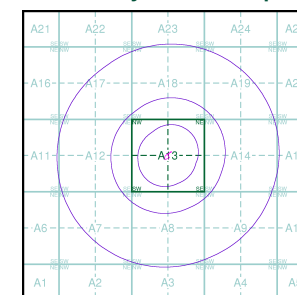
General

- 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

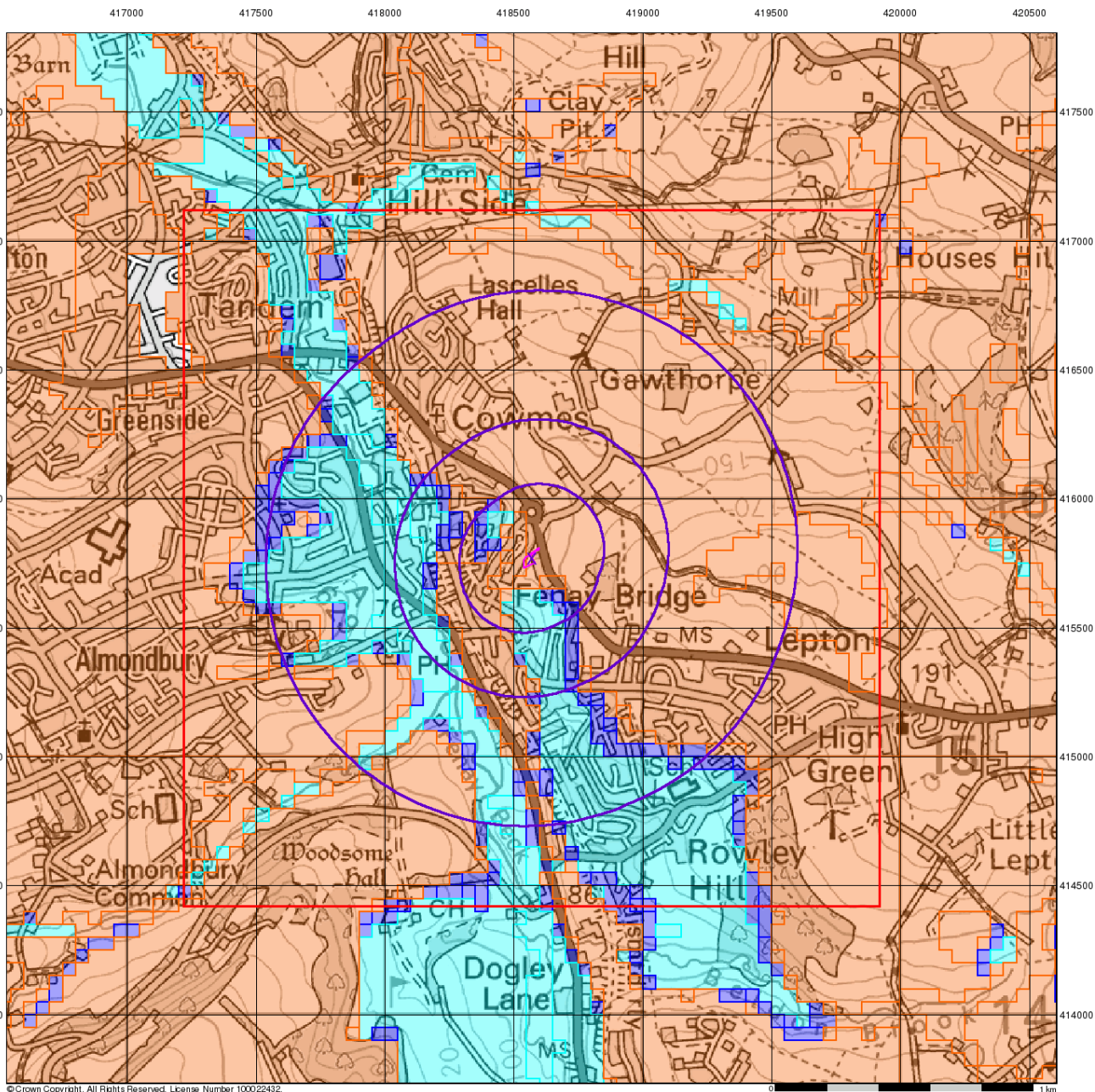
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Site Details

Site at 418560, 415760

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BGS Flood GFS Data

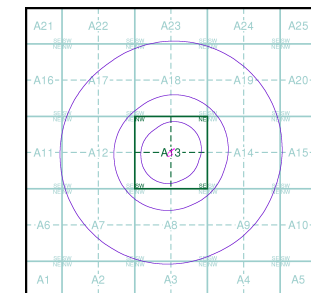
General

- 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: 357153675_1_1
 Customer Ref: 49246
 National Grid Reference: 418570, 415770
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	LDE	Lacustrine Deposits	Clay and Silt	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	KKBS	Kirkburton Sandstone	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	GR	Grenoside Sandstone	Sandstone	Not Supplied - Westphalian
	GM	Greenmoor Rock	Sandstone	Not Supplied - Westphalian
	CLRK	Clifton Rock	Sandstone	Not Supplied - Westphalian
	TKS	Thick Stone	Sandstone	Not Supplied - Westphalian
	FHR	Falhouse Rock	Sandstone	Not Supplied - Westphalian
	EF	Elland Flags	Sandstone	Not Supplied - Westphalian
	EYR	80 Yard Rock	Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

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Geology 1:50,000 Maps

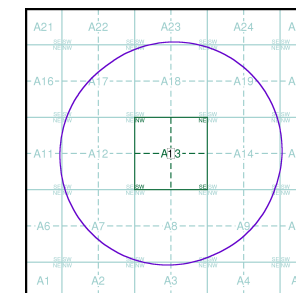
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	077
Map Name:	Huddersfield
Map Date:	2003
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



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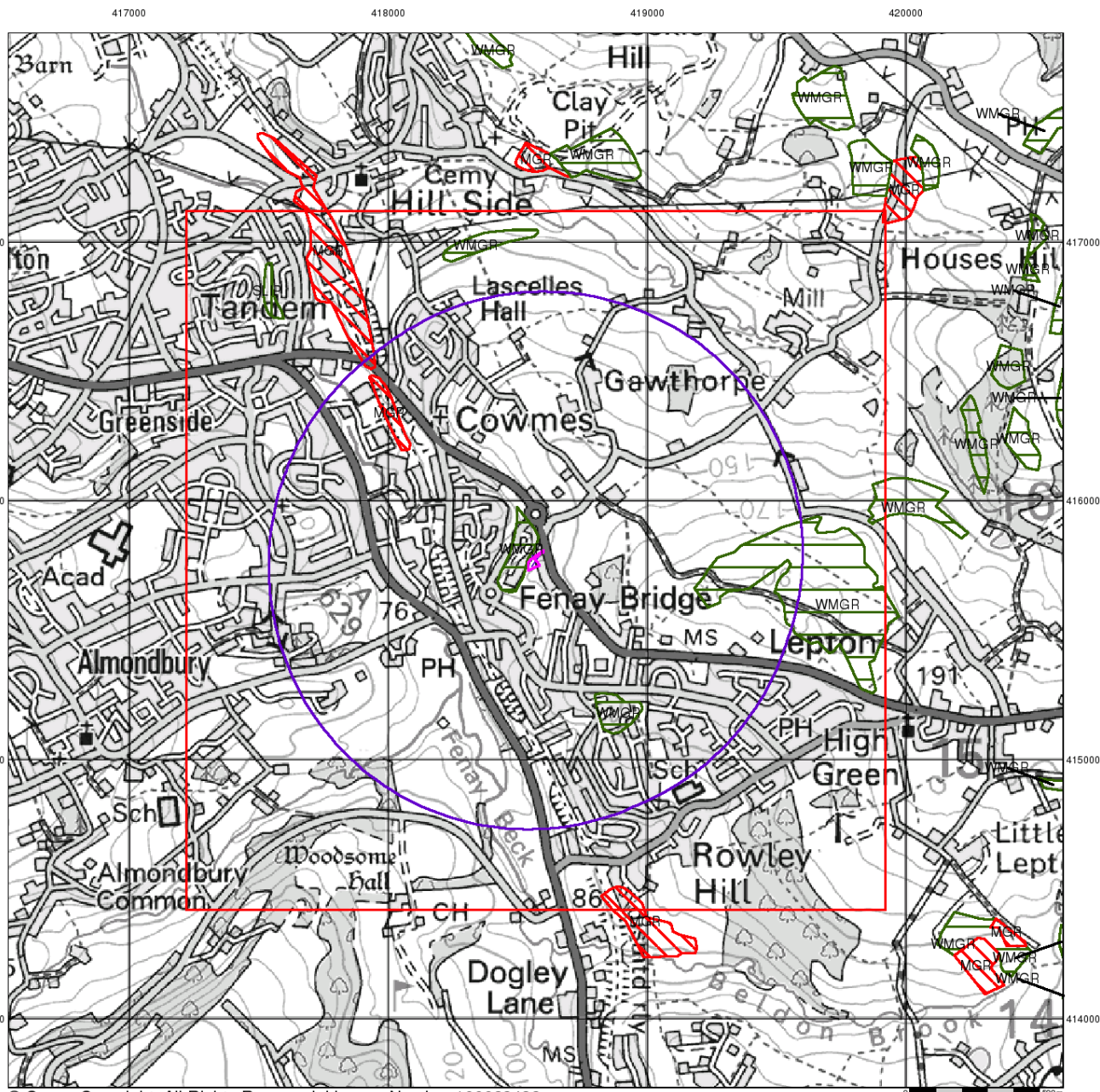
Order Number:	357153675_1_1
Customer Reference:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details:

Site at 418560, 415760

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Artificial Ground and Landslip

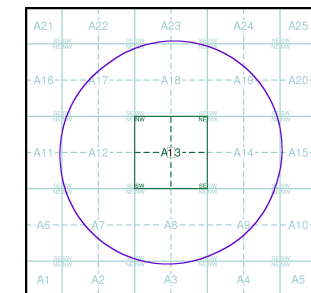
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 357153675_1_1
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 National Grid Reference: 418570, 415770
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details:

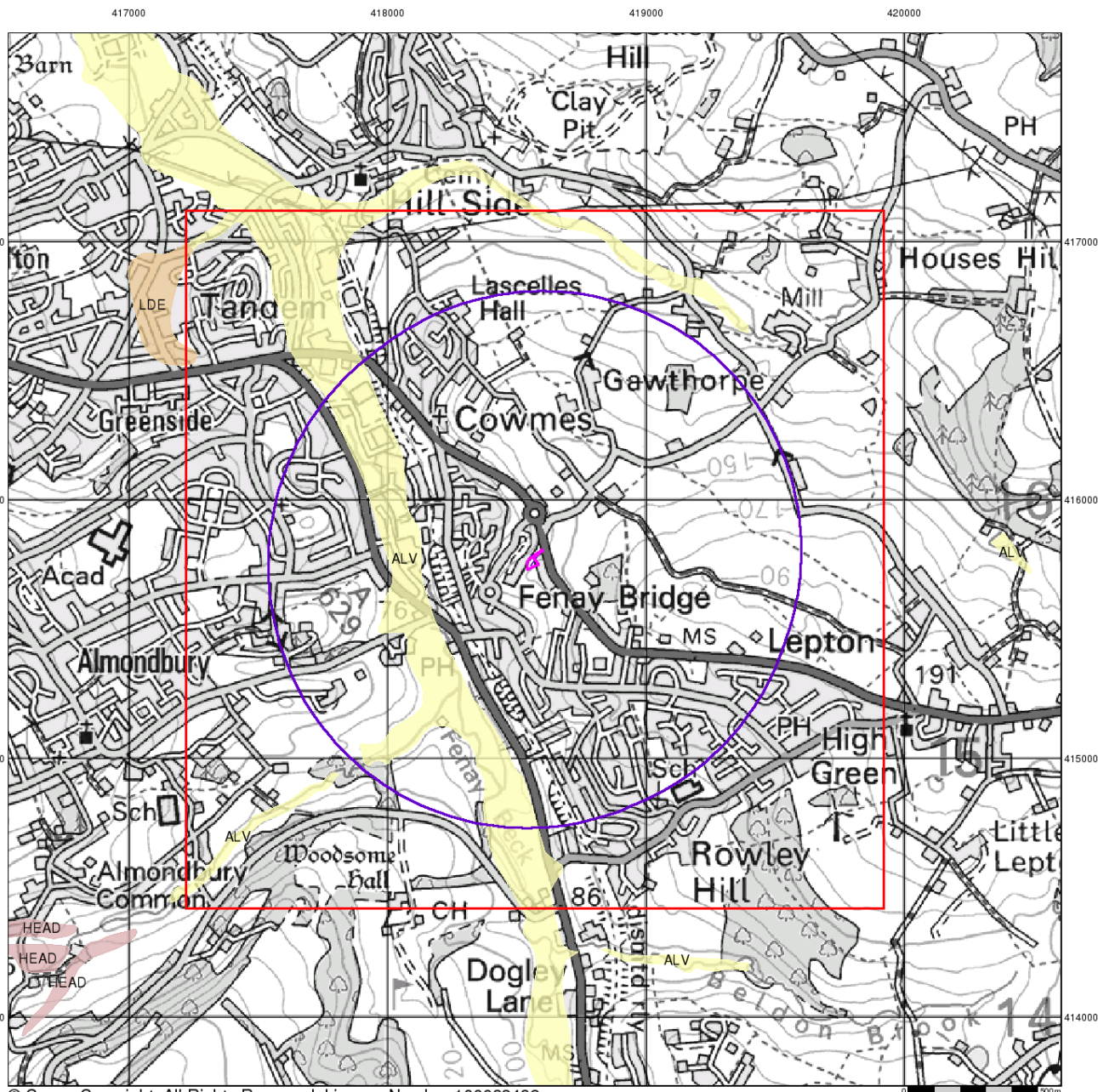
Site at 418560, 415760

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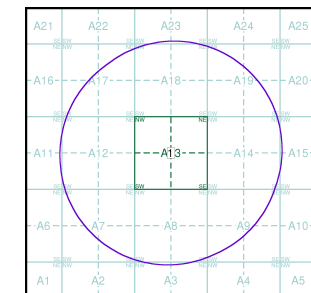
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



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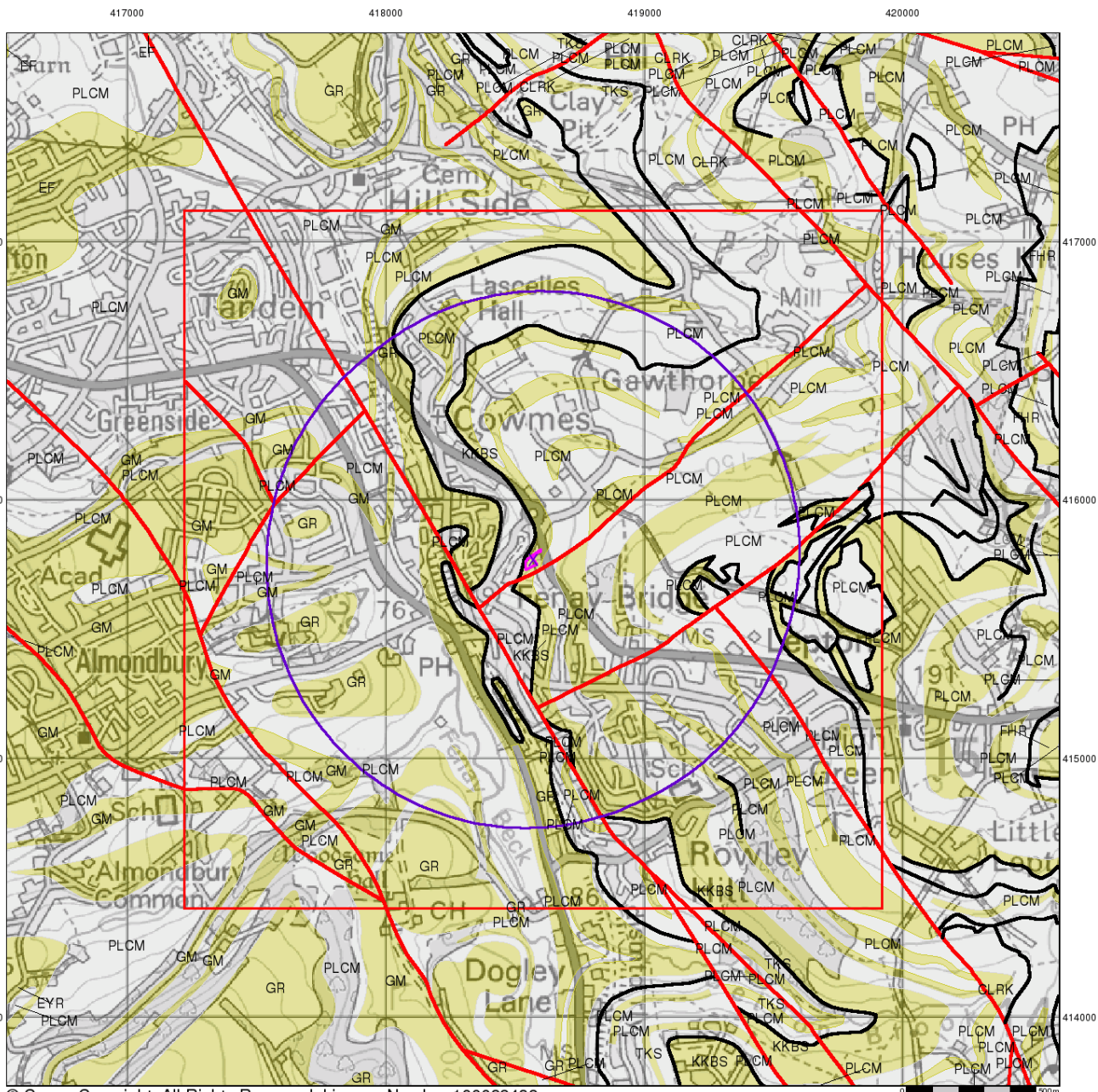
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 Customer Reference: 49246
 National Grid Reference: 418570, 415770
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details:

Site at 418560, 415760

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Bedrock and Faults

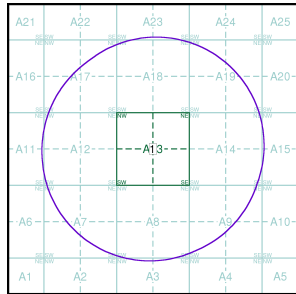
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



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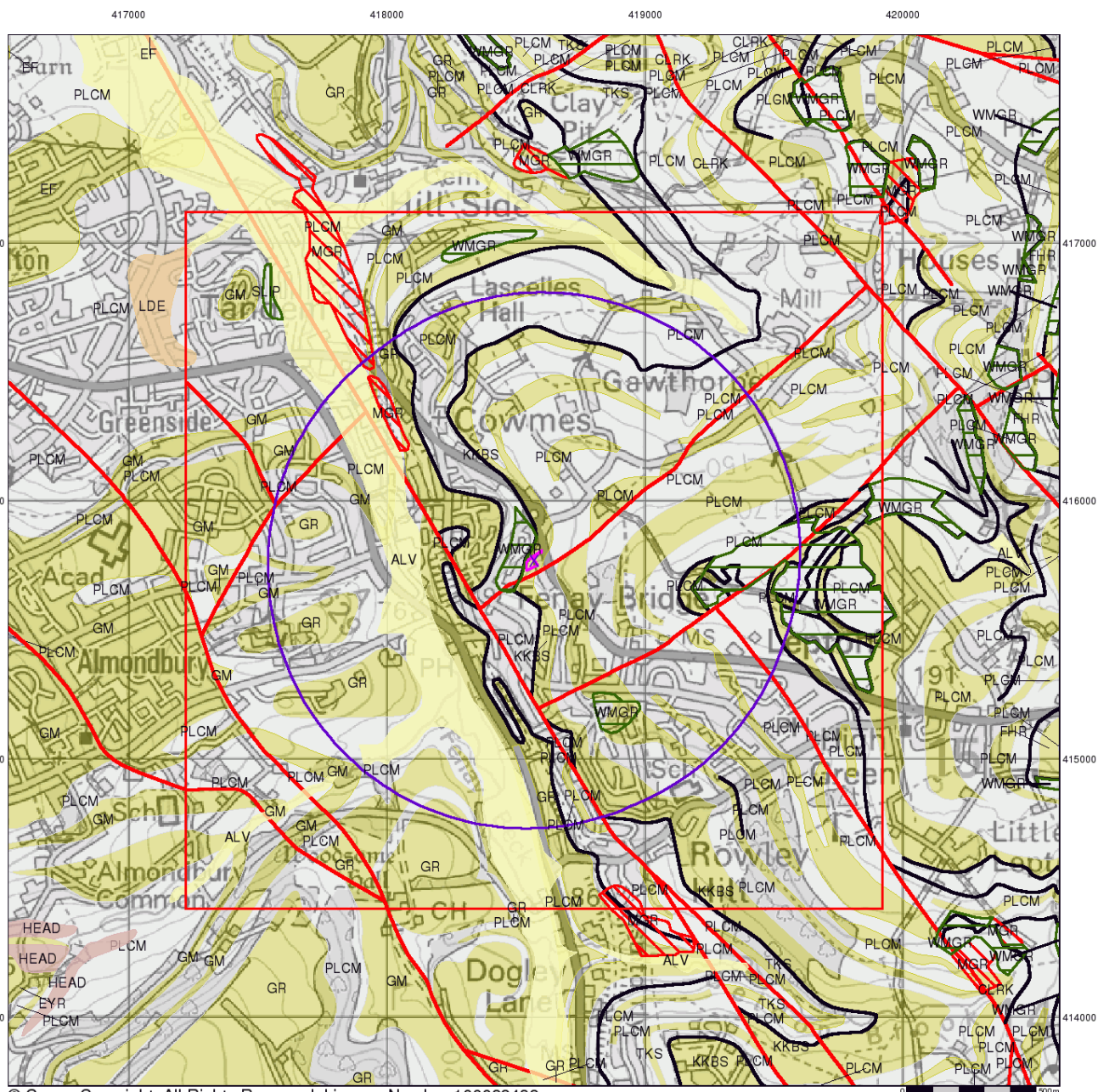
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Customer Reference: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details:

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Combined Surface Geology

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

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

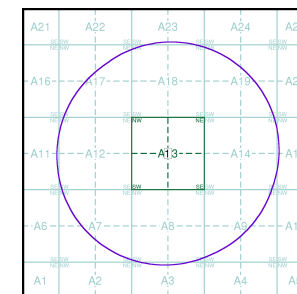
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 357153675_1_1
Customer Reference: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details:

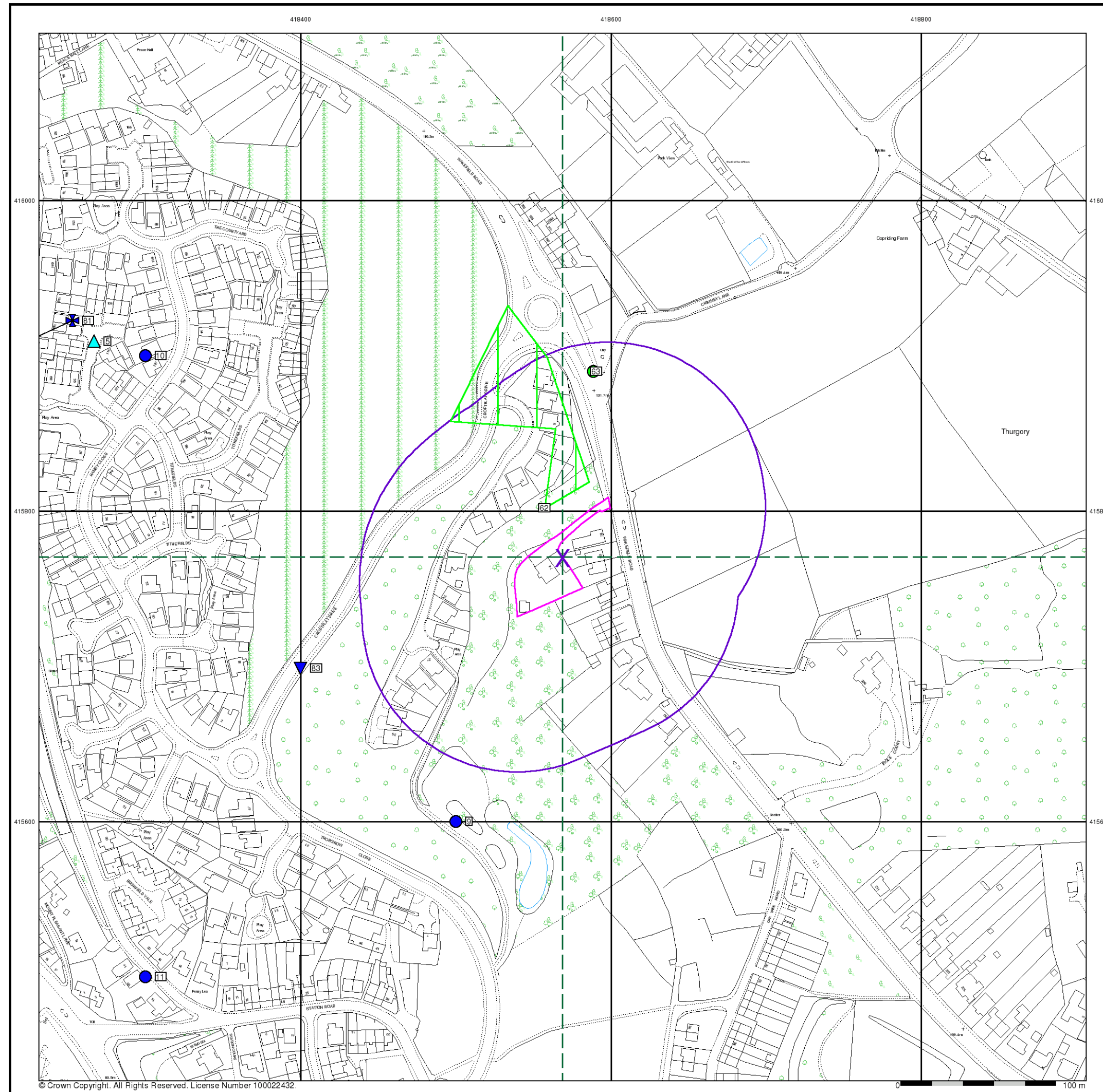
Site at 418560, 415760

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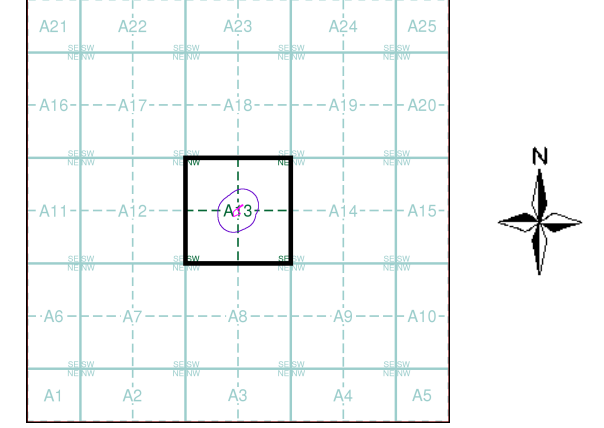
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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - 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
- 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
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
 - BGS Recorded Mineral Site

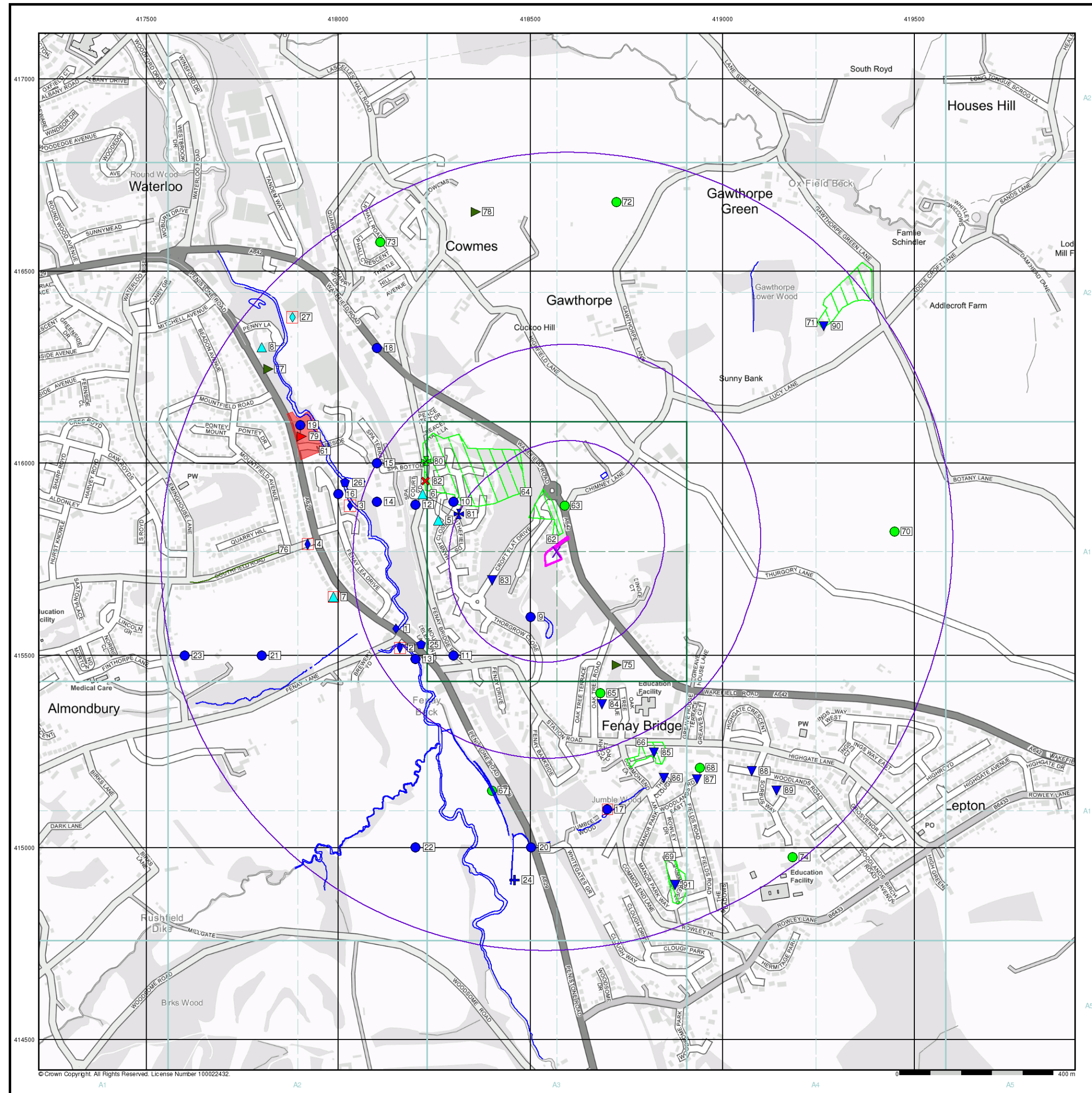
Site Sensitivity Map - Segment A13



Order Details
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Plot Buffer (m): 100

Site Details
Site at 418560, 415760

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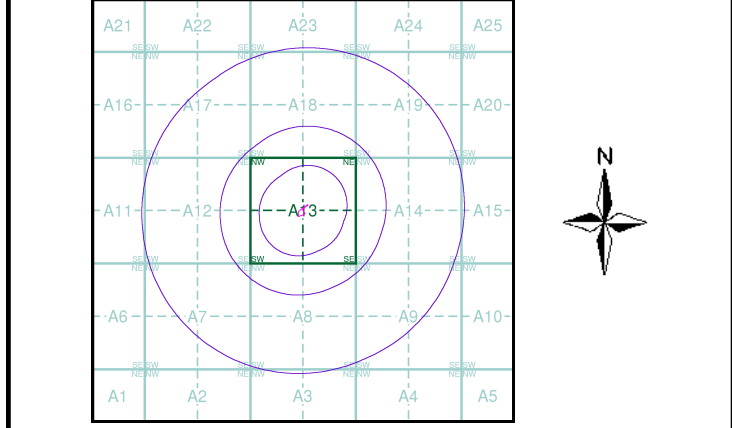
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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
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 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
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 - 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 (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**
 - BGS Recorded Mineral Site

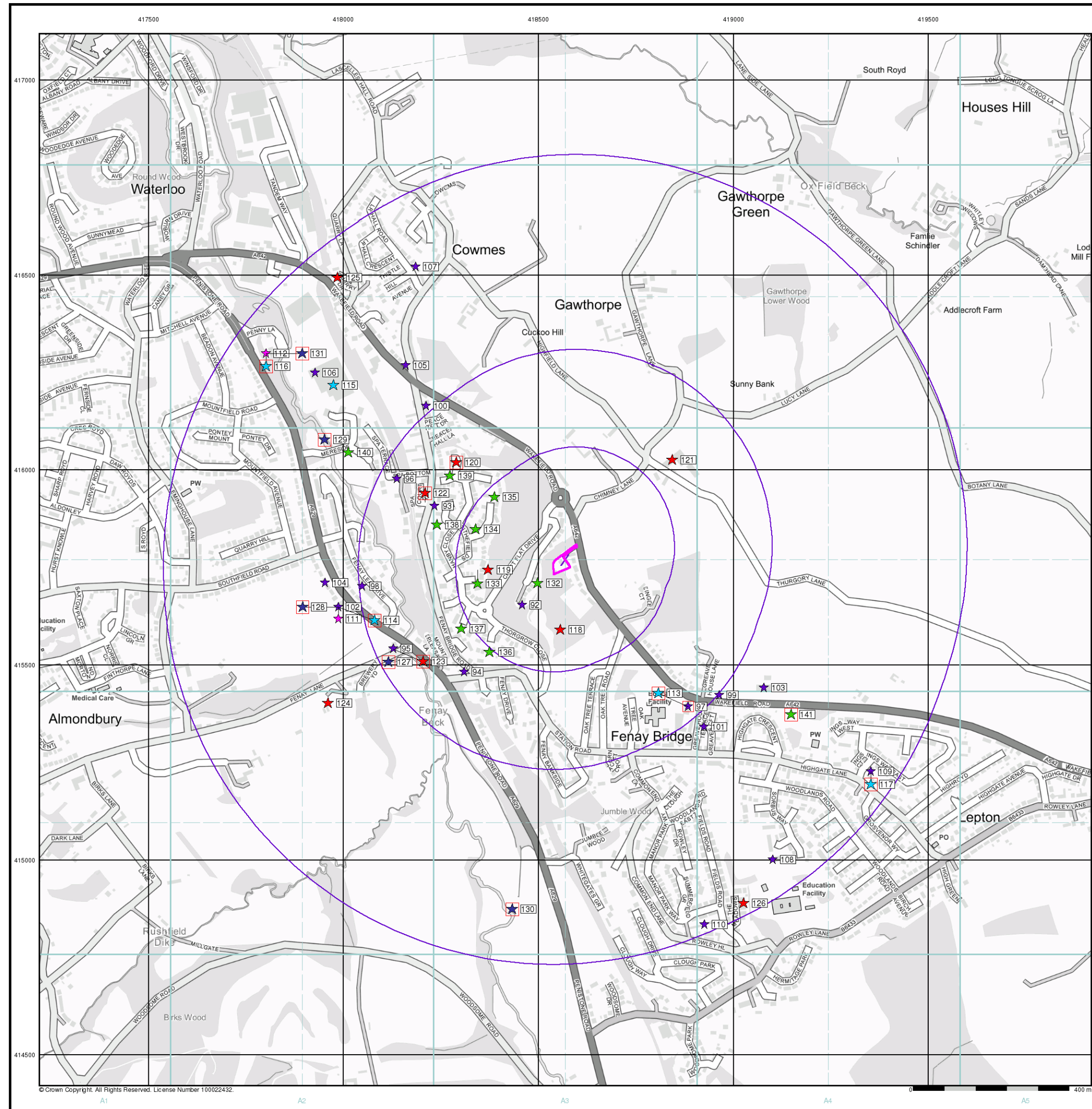
Site Sensitivity Map - Slice A



Order Details
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details
Site at 418560, 415760

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Industrial Land Use Map

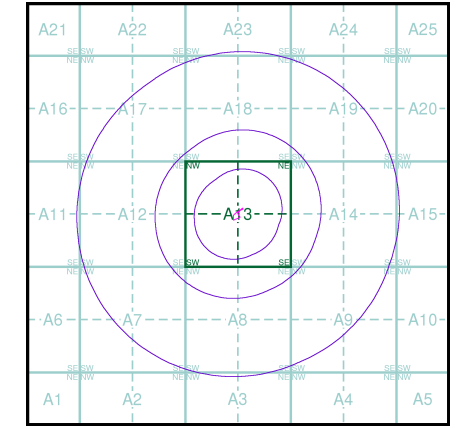
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

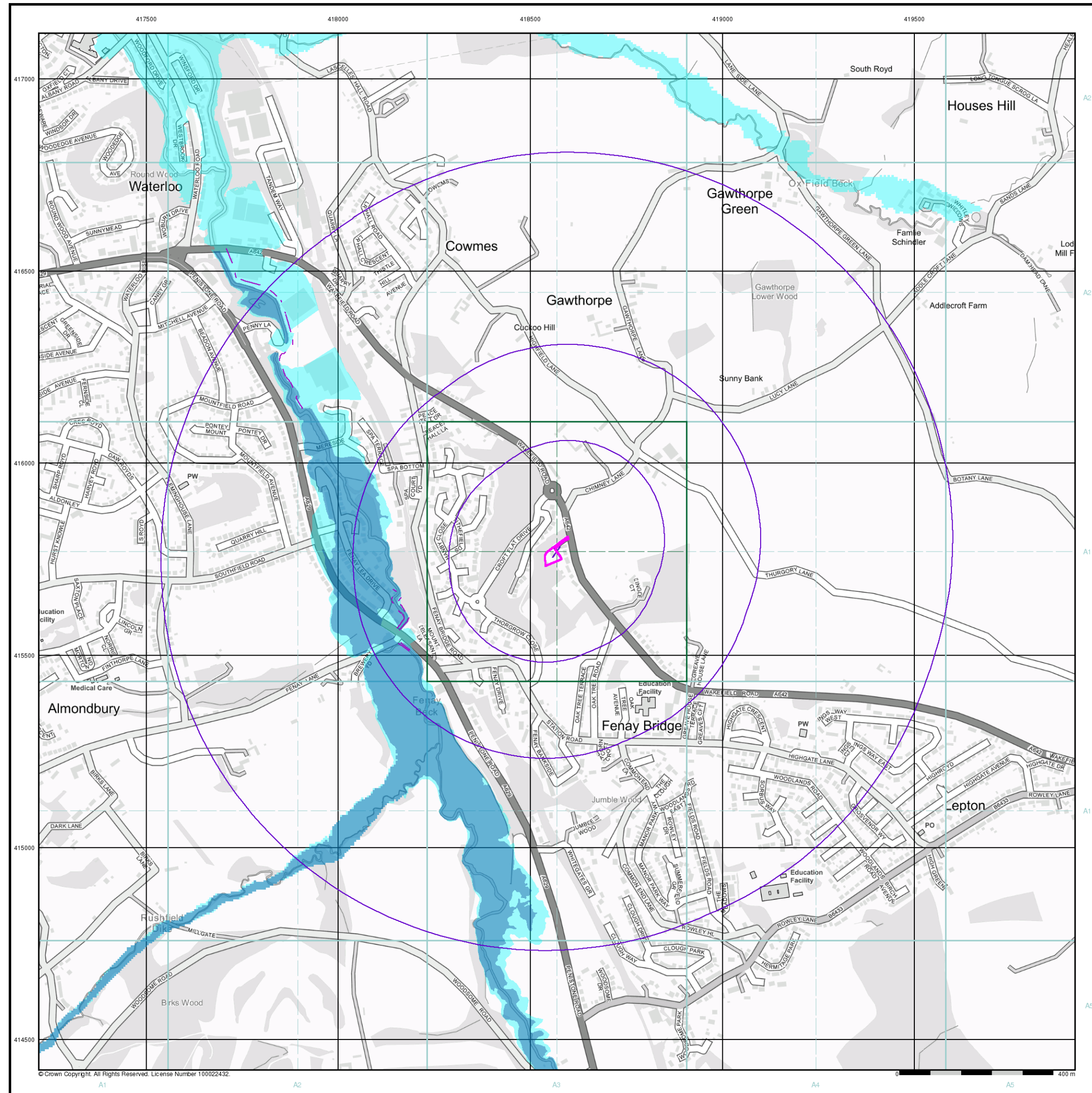
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 Customer Ref: 49246
 National Grid Reference: 418570, 415770
 Slice: A
 Site Area (Ha): 0.15
 Search Buffer (m): 1000

Site Details

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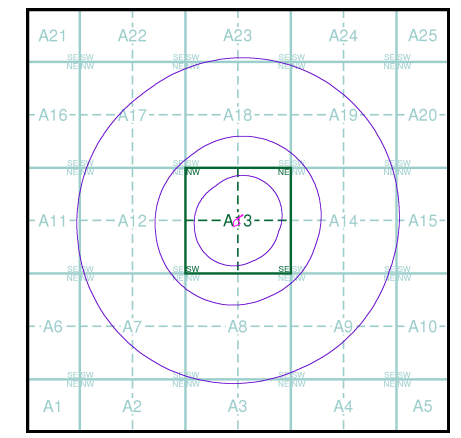
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

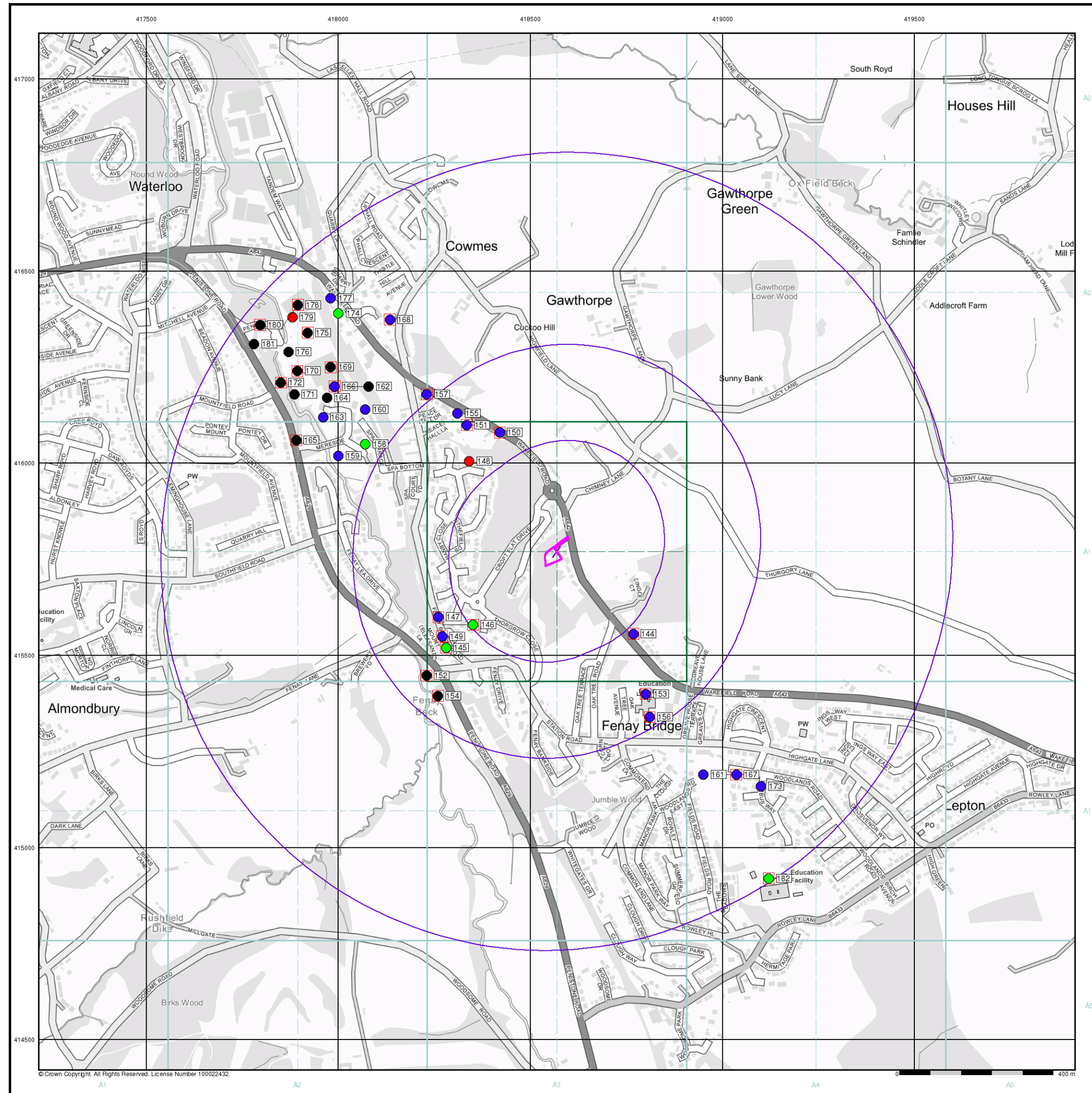
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Customer Ref: 49246
National Grid Reference: 418570, 415770
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Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

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General

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

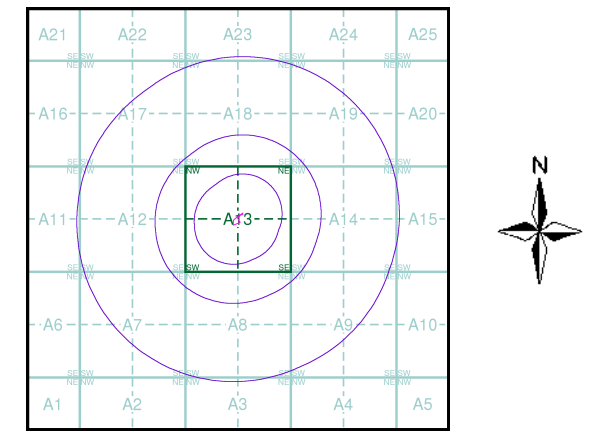
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

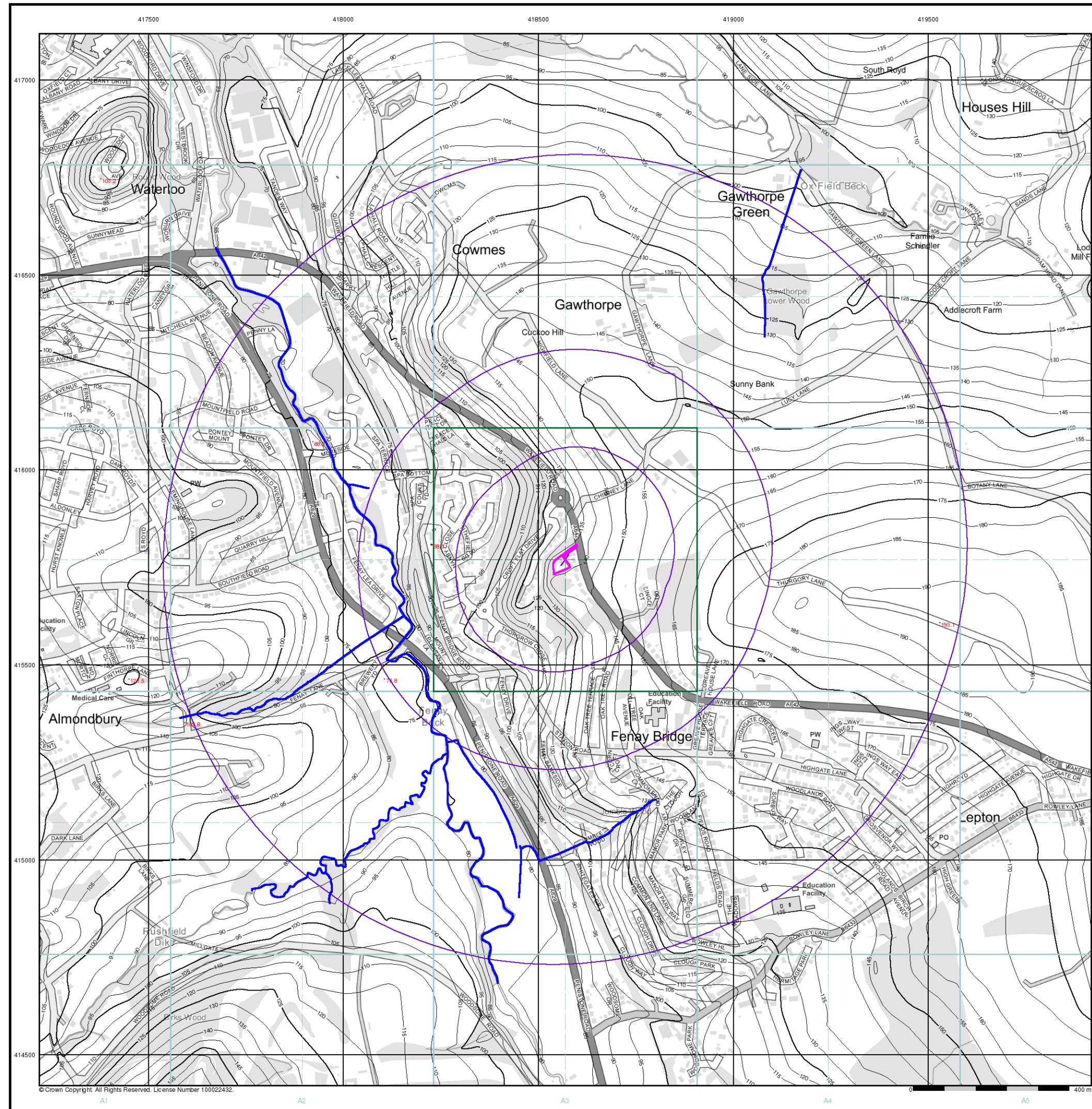
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Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

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General

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

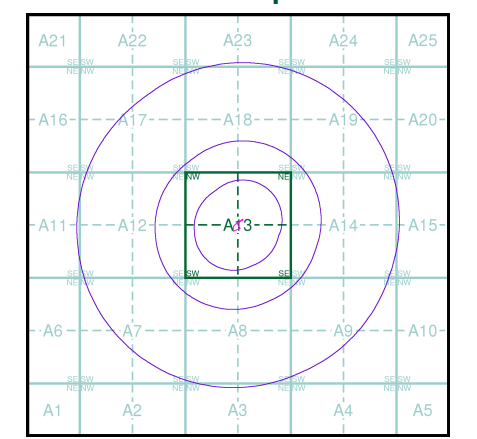
OS Water Network Data

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

Contours (height in meters)

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

OS Water Network Map - Slice A



Order Details

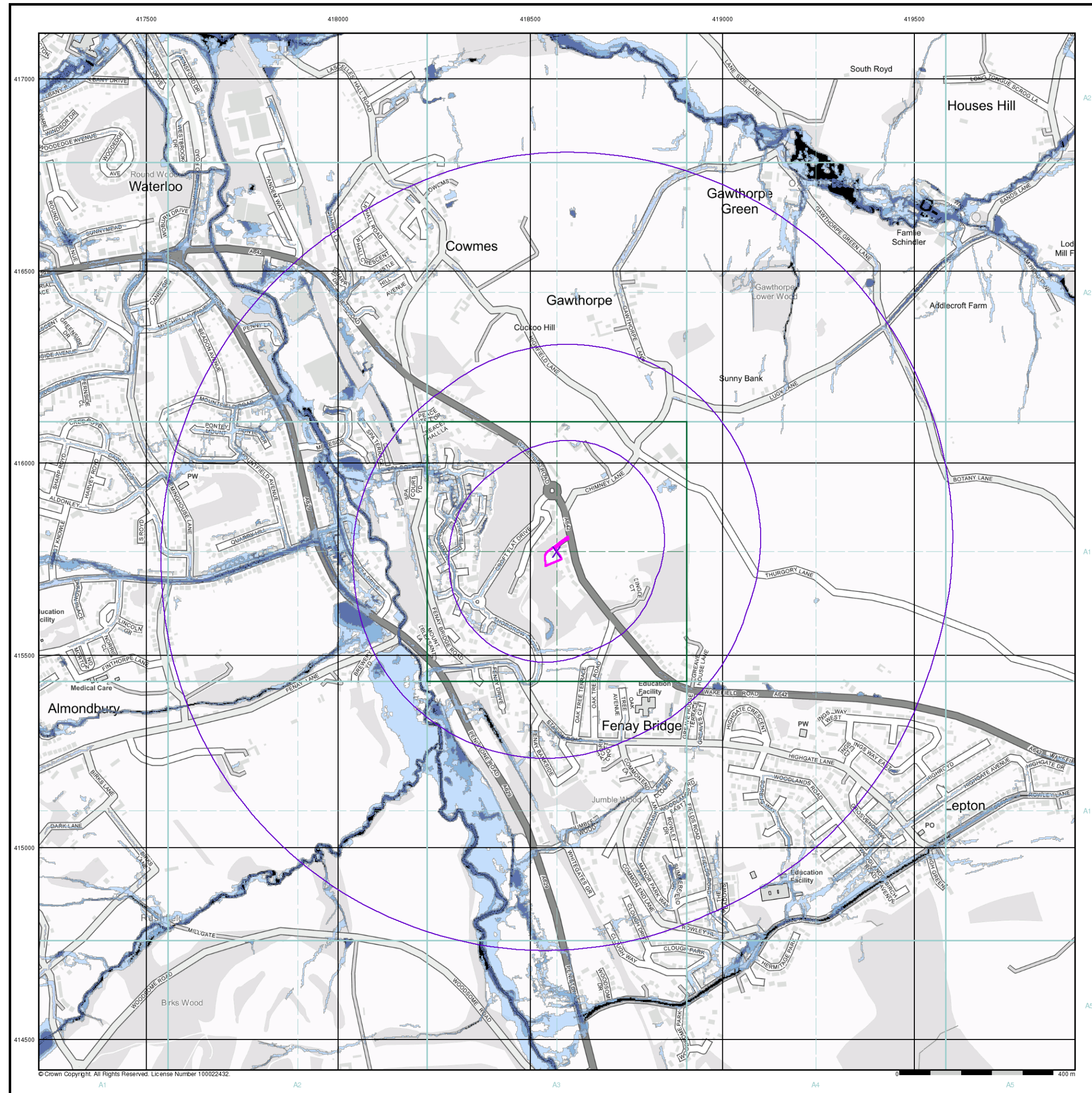
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Customer Ref: 49246
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General

- Specified Site
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- Bearing Reference Point

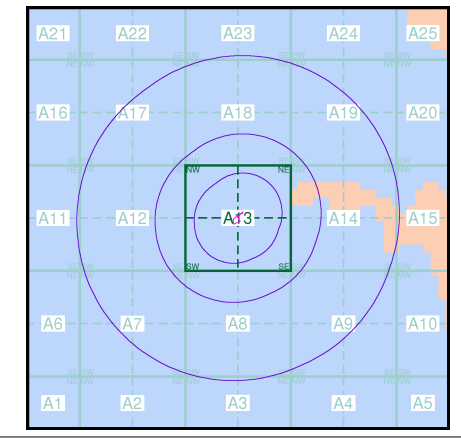
Risk of Flooding from Surface Water

- 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

E/NRW Suitability Map - Slice A



Order Details

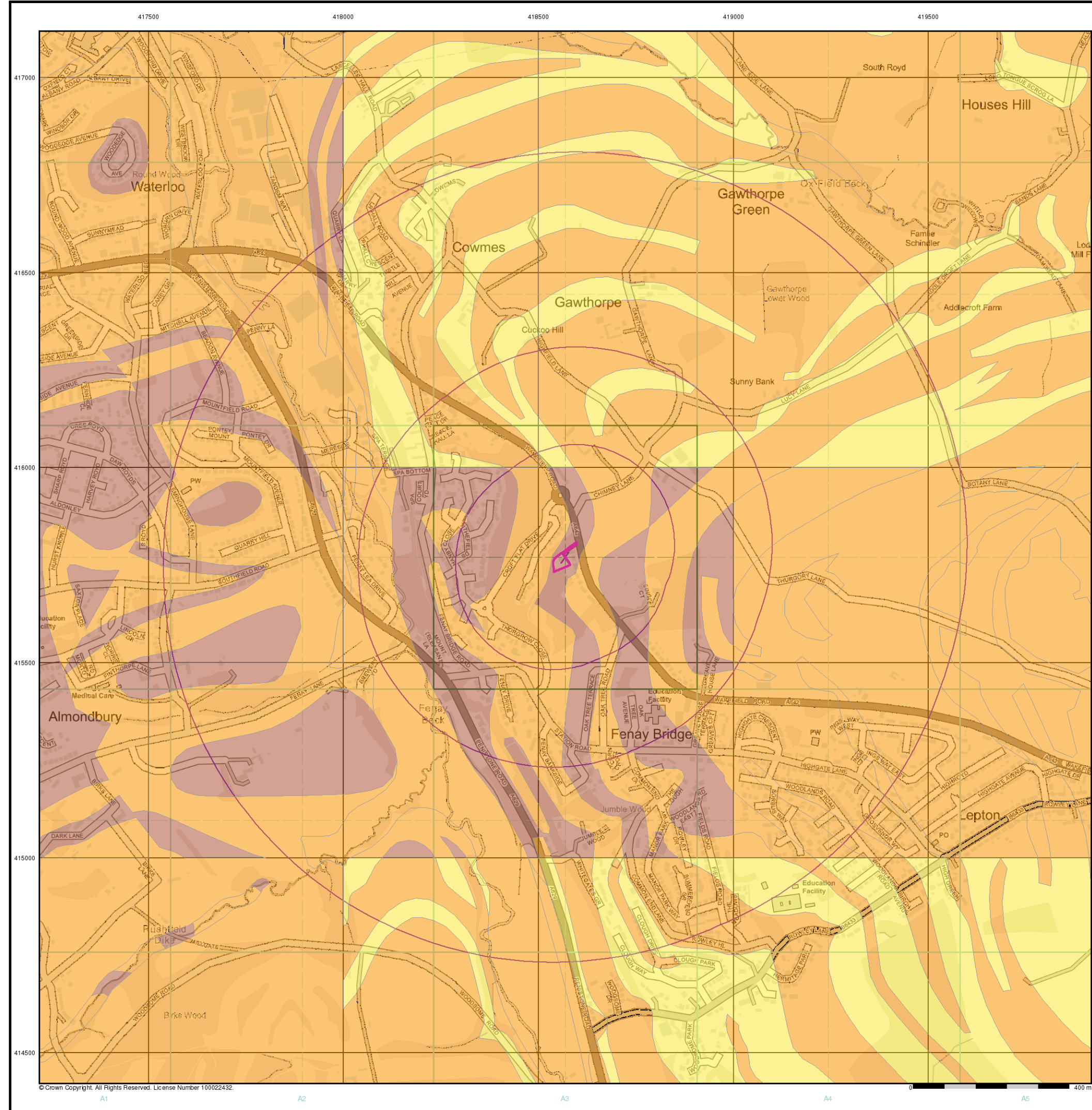
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Customer Ref: 49246
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Site Details

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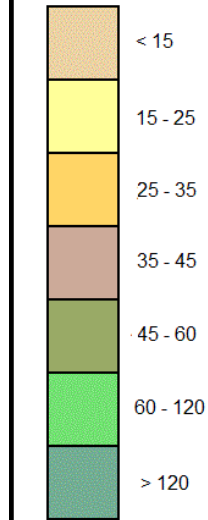
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General

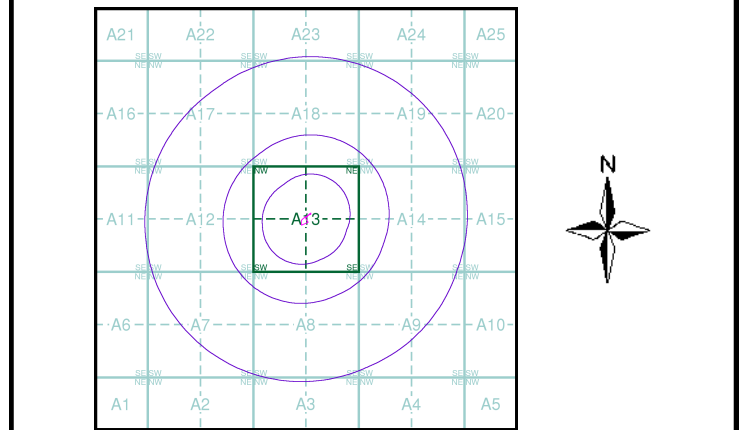
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

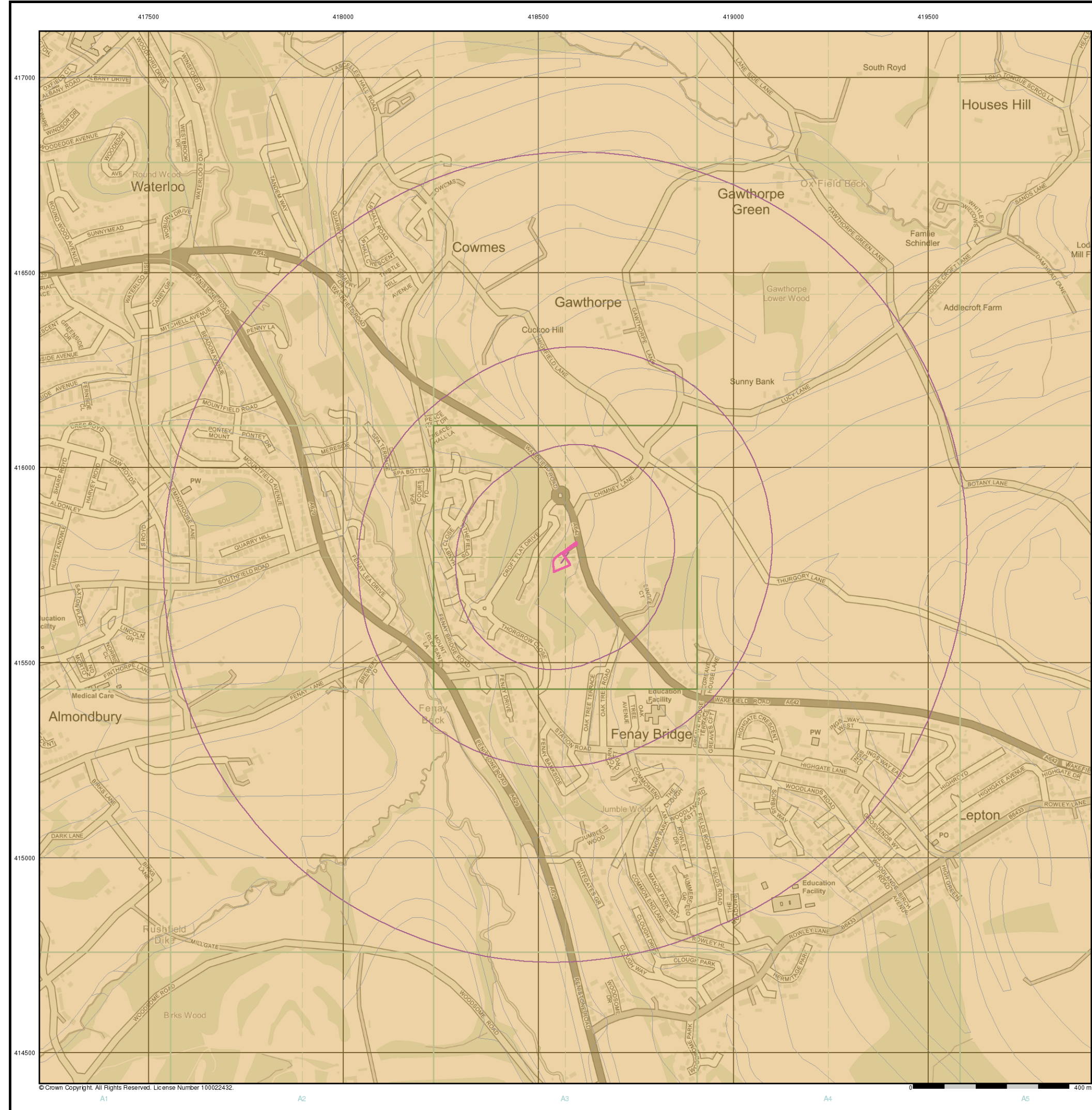
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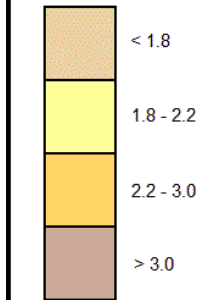
© Crown Copyright. All Rights Reserved. License Number 100022432.

General

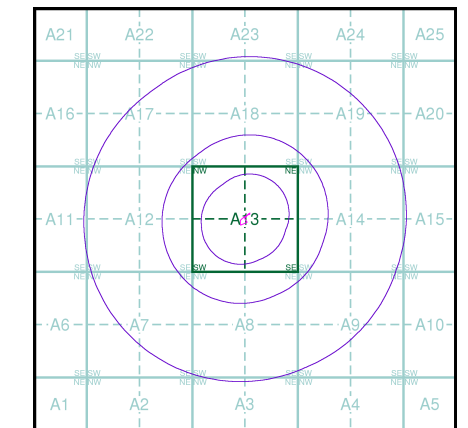
☆ Specified Site ○ Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

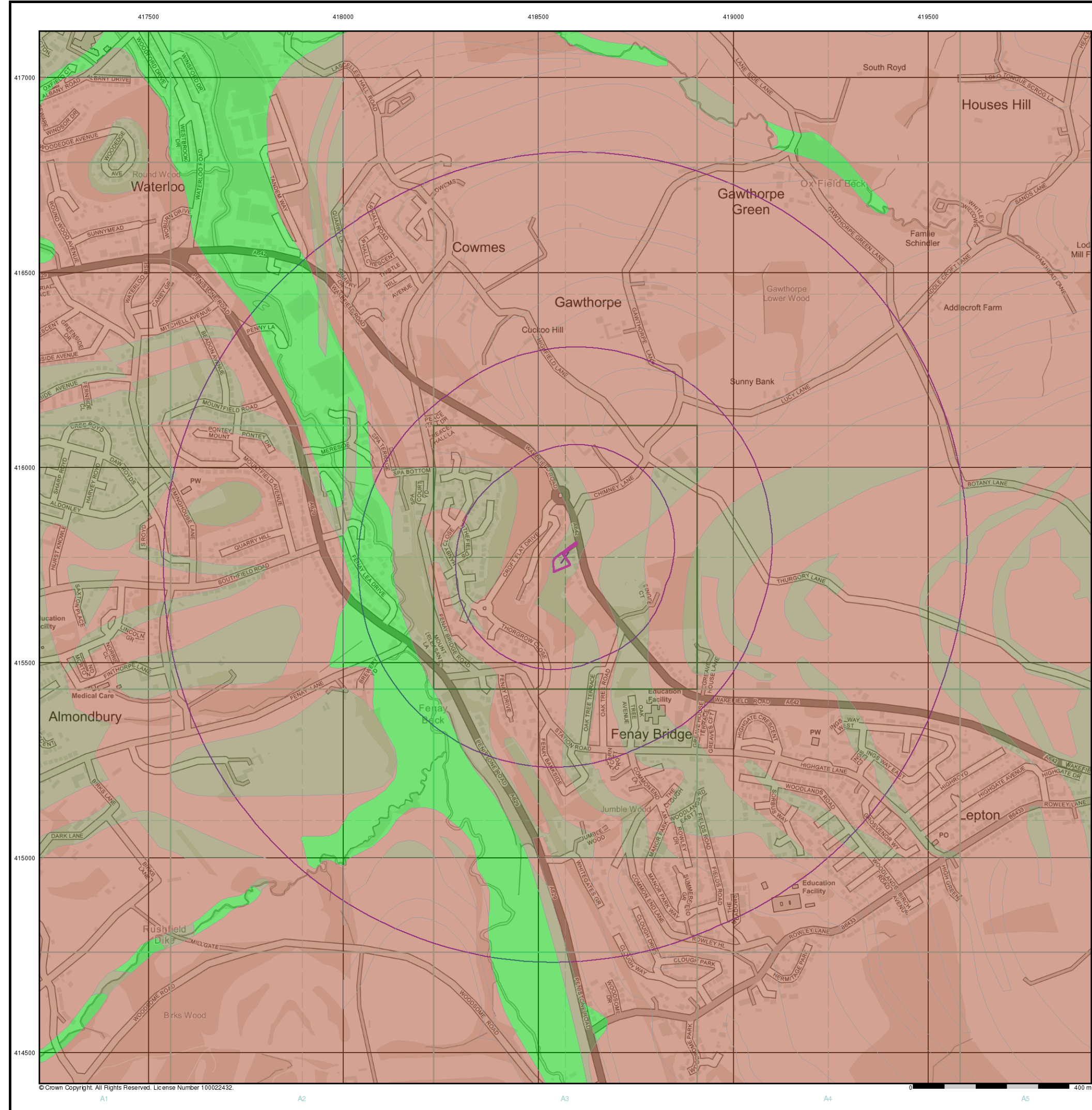


Order Details

Order Details: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760



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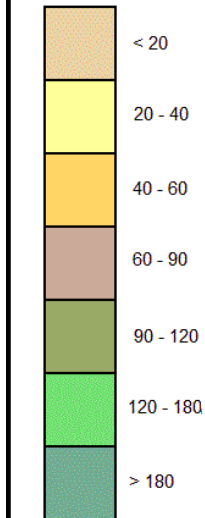
LANDMARK INFORMATION GROUP®

General

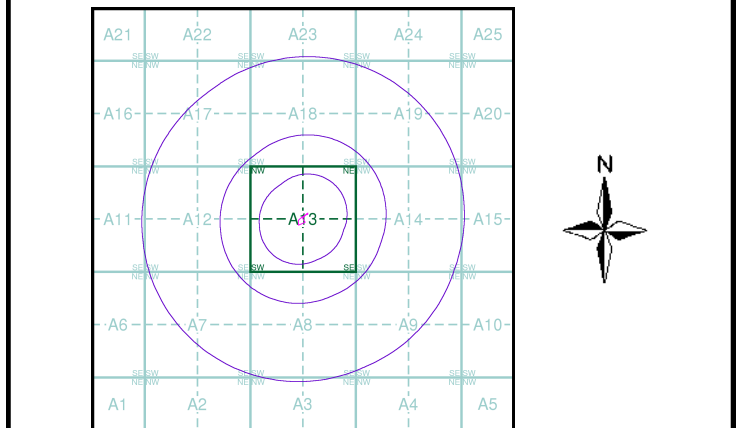
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

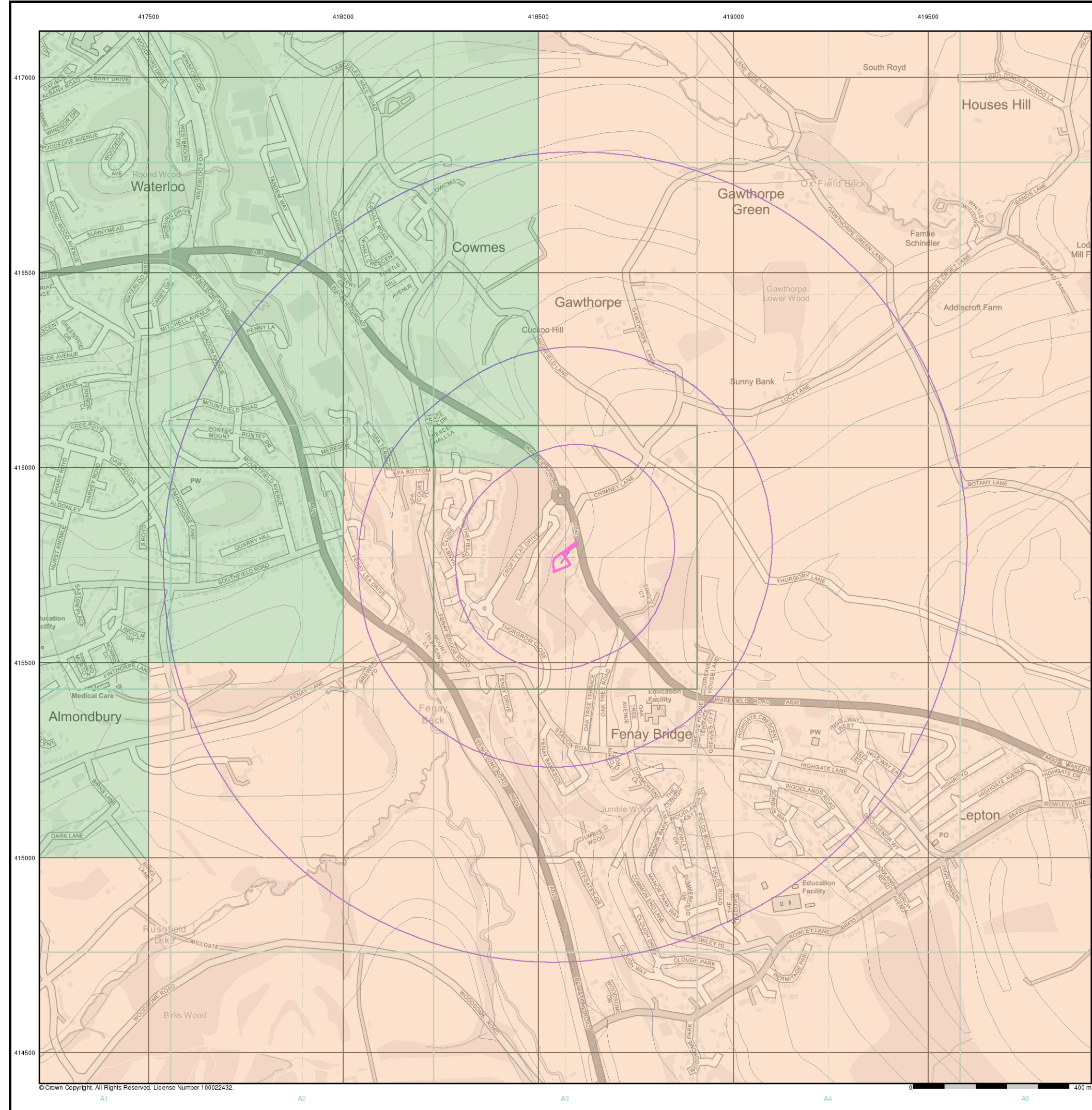
Order Details: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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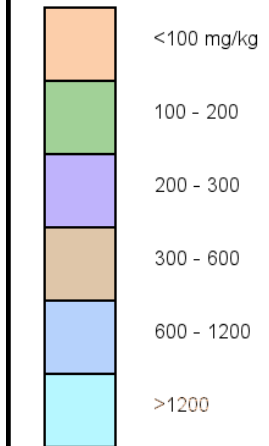
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General

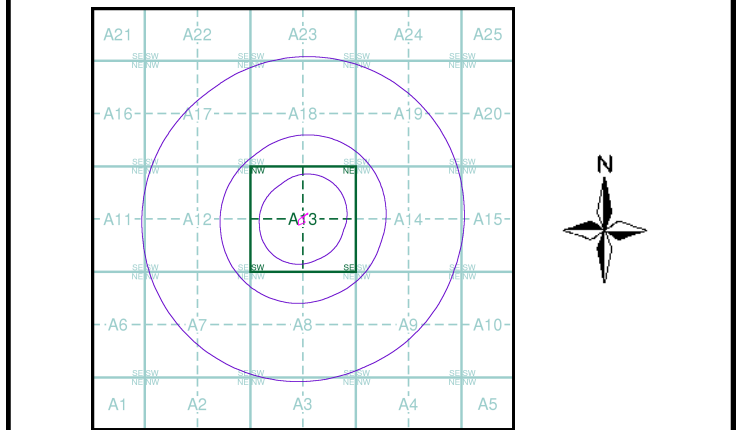
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

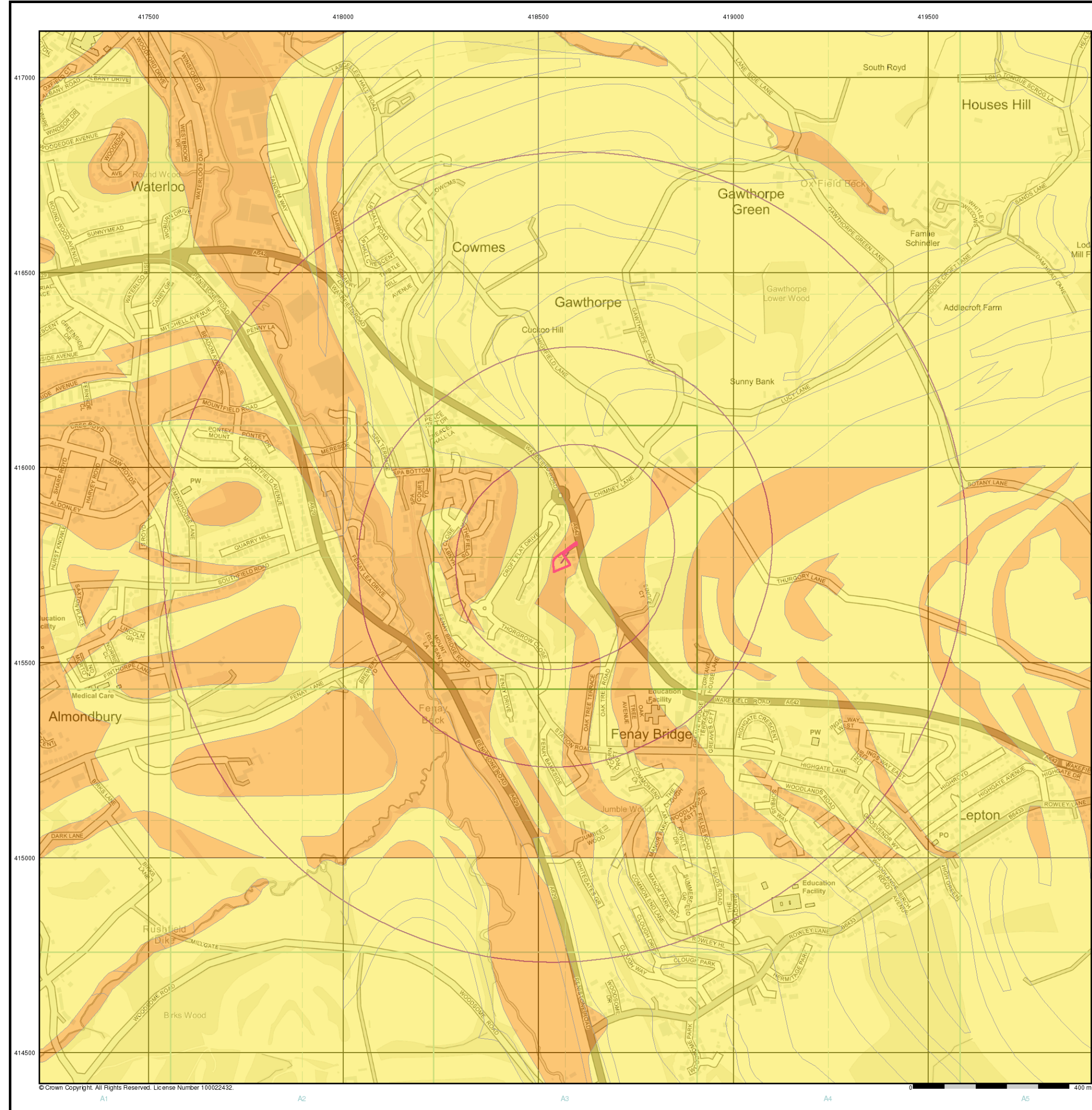
Order Details: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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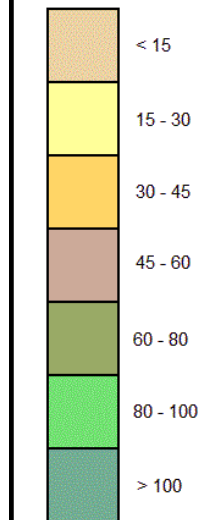
LANDMARK INFORMATION GROUP®

General

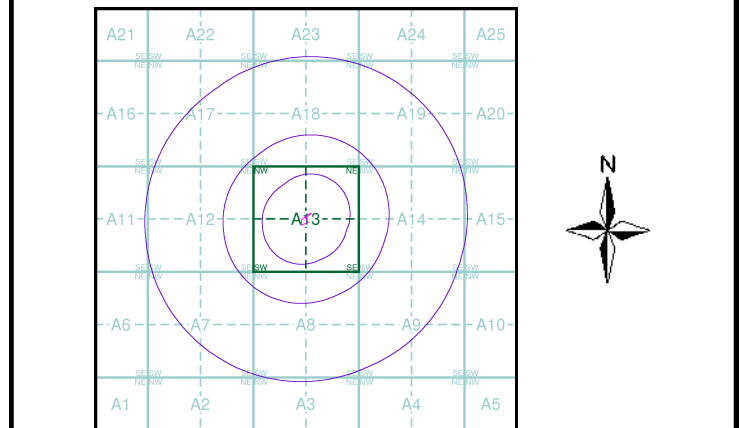
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

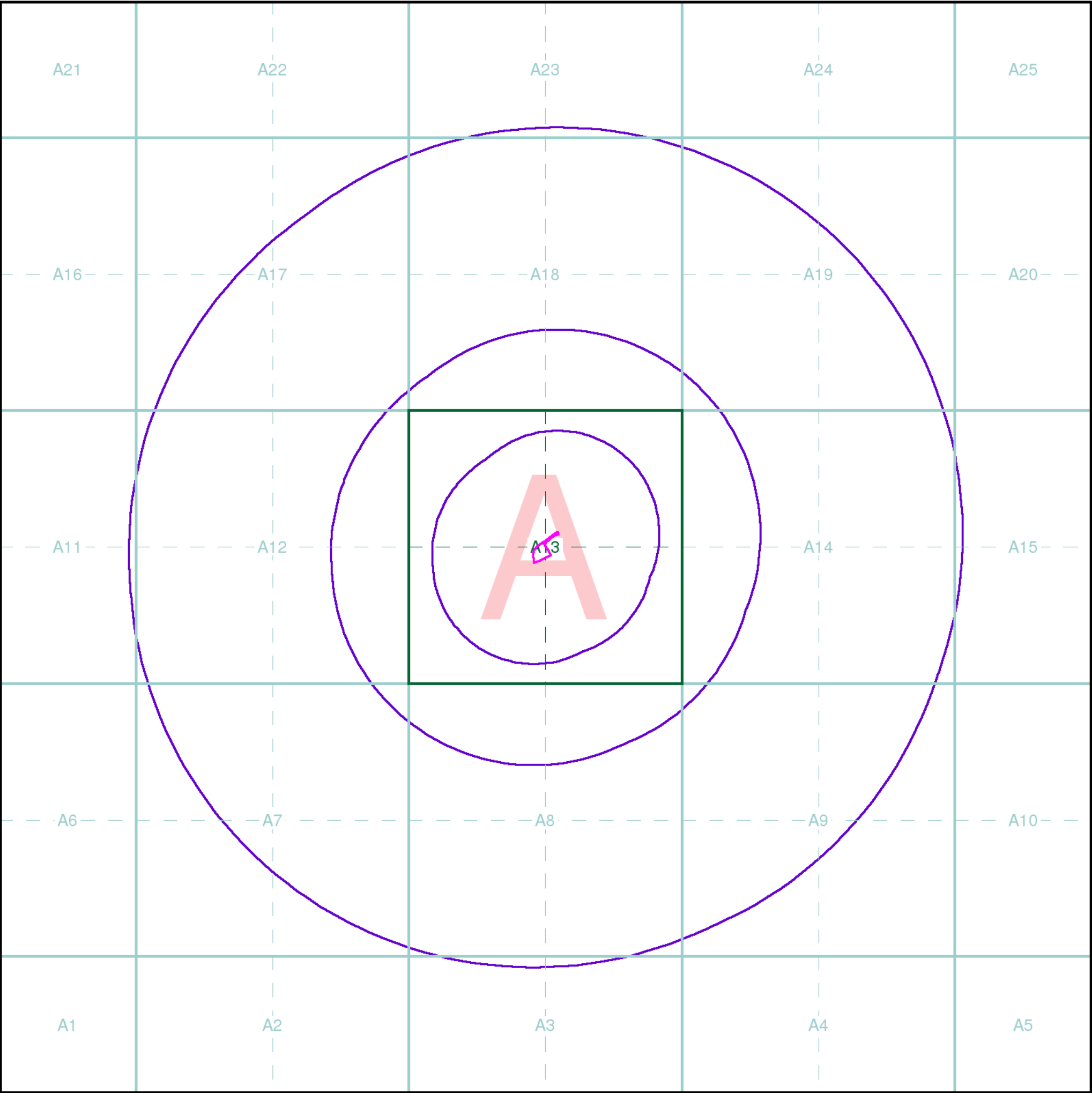
Order Details: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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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

Mrs Mitchell, Eastwood & Partners Ltd, St Andrews House, 23 Kingfield Road, Sheffield, S11 9AS

Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418560, 415760
Site Area (Ha): 0.15
Search Buffer (m): 1000

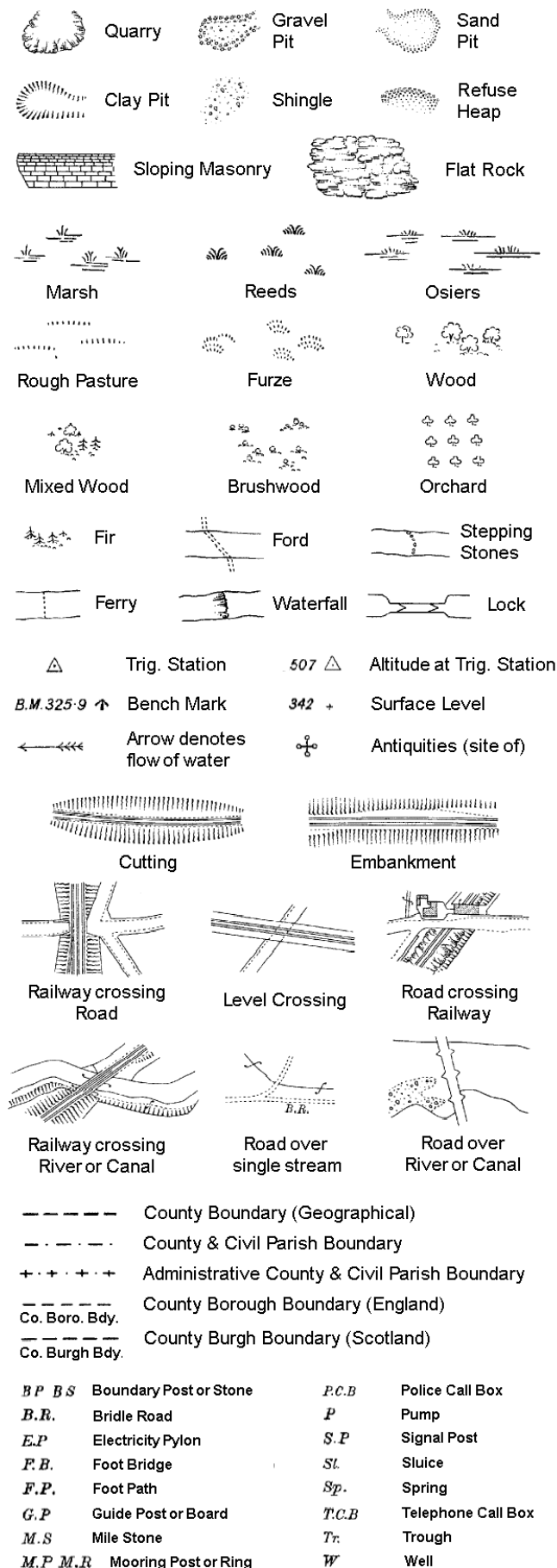
Site Details

Site at 418560, 415760

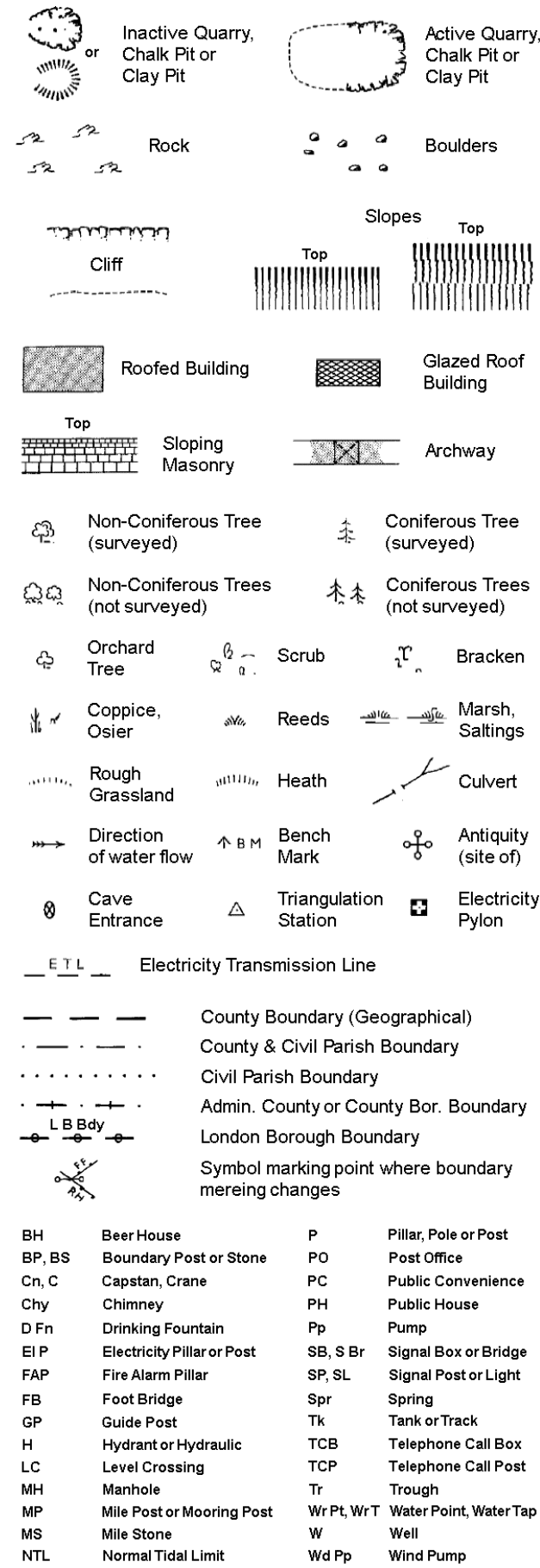
Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

Historical Mapping Legends

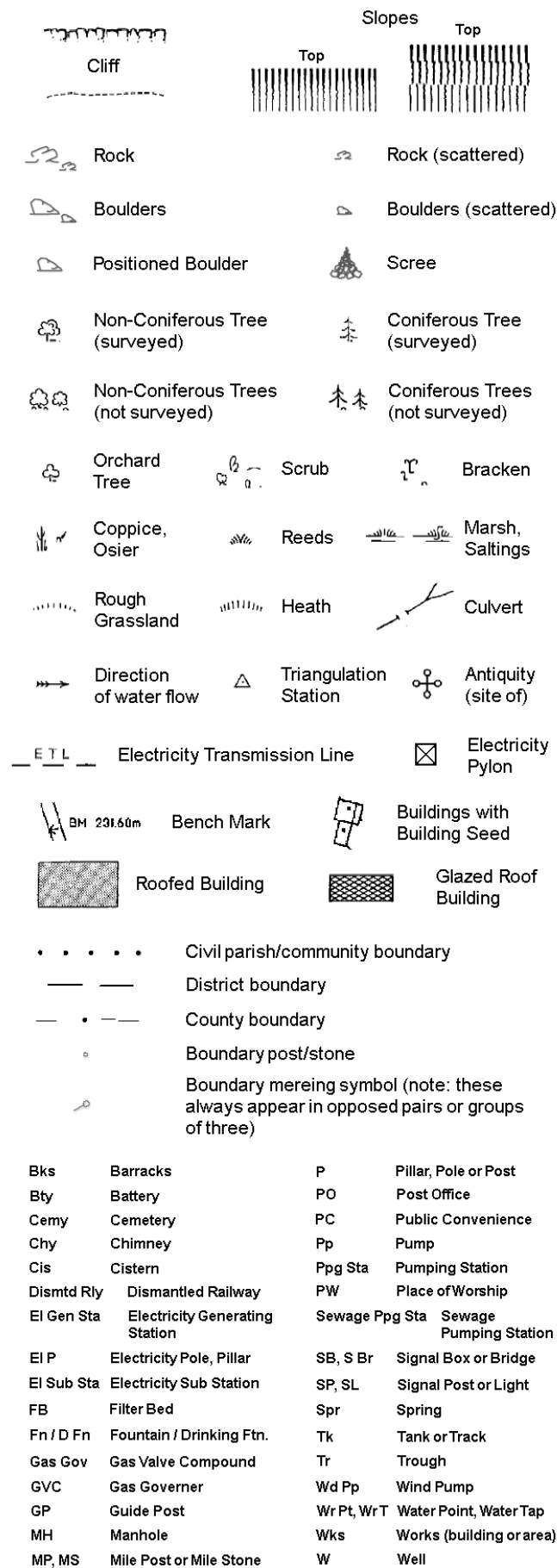
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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



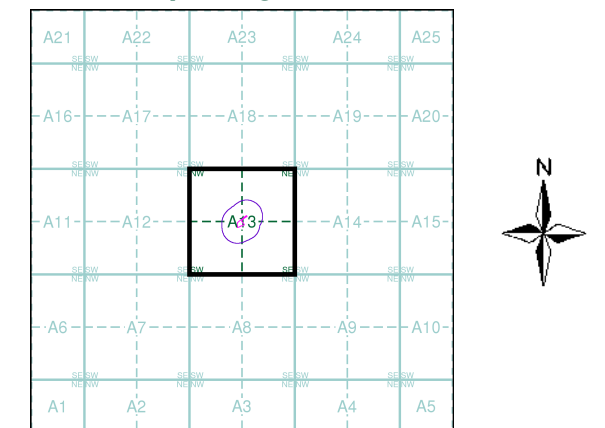
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1906 - 1907	3
Yorkshire	1:2,500	1916 - 1919	4
Ordnance Survey Plan	1:2,500	1961	5
Ordnance Survey Plan	1:2,500	1971 - 1978	6
Supply of Unpublished Survey Information	1:2,500	1975	7
Supply of Unpublished Survey Information	1:2,500	1976	8
Ordnance Survey Plan	1:1,250	1985 - 1986	9
Large-Scale National Grid Data	1:1,250	1993	10
Large-Scale National Grid Data	1:1,250	1993 - 1995	11
Historical Aerial Photography	1:2,500	1999	12

Historical Map - Segment A13



Order Details

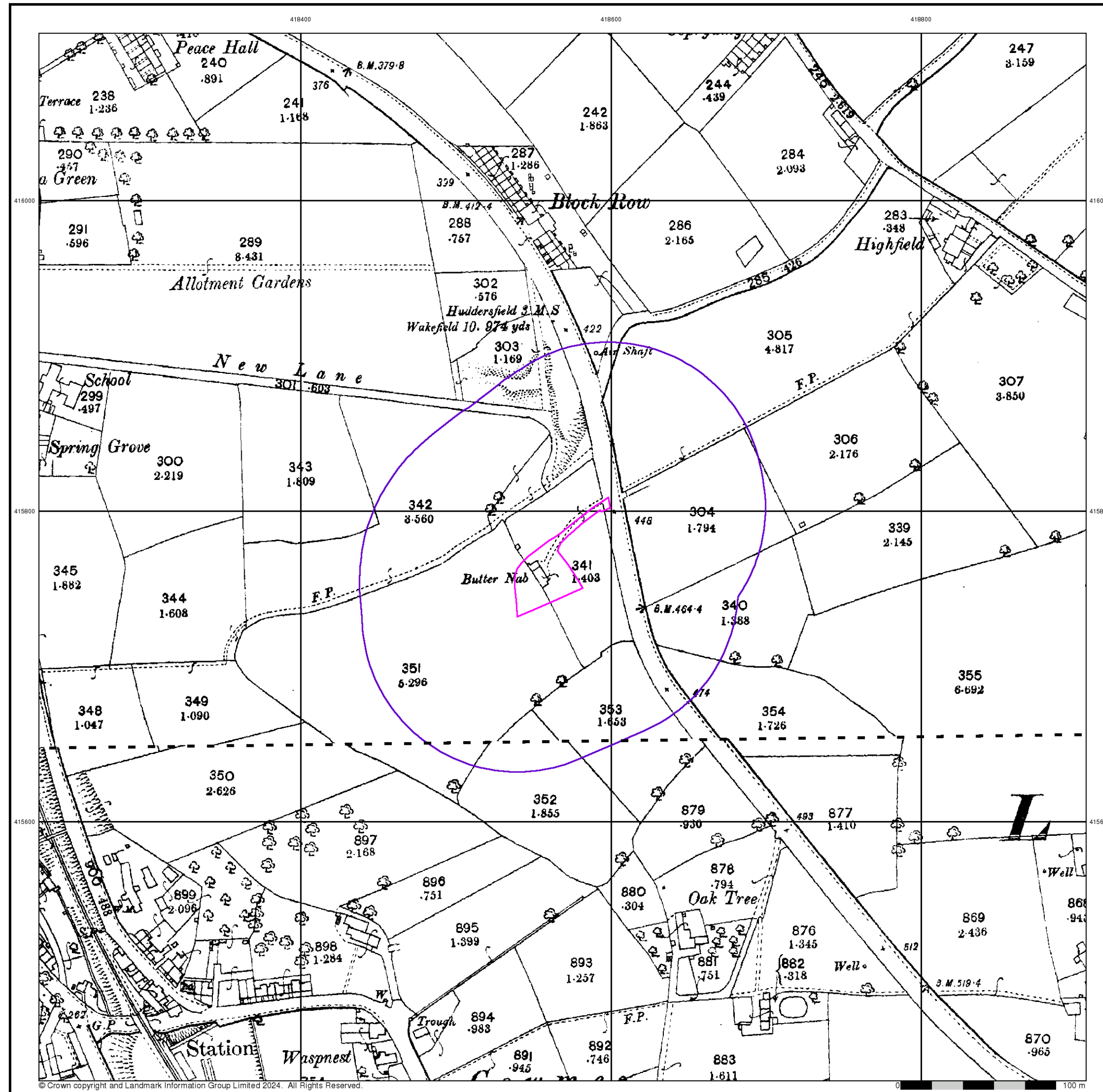
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760

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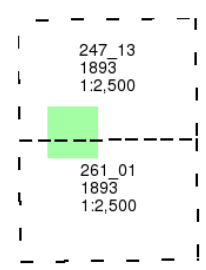
Yorkshire

Published 1893

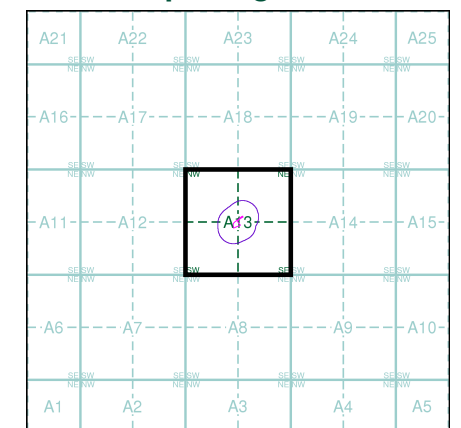
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

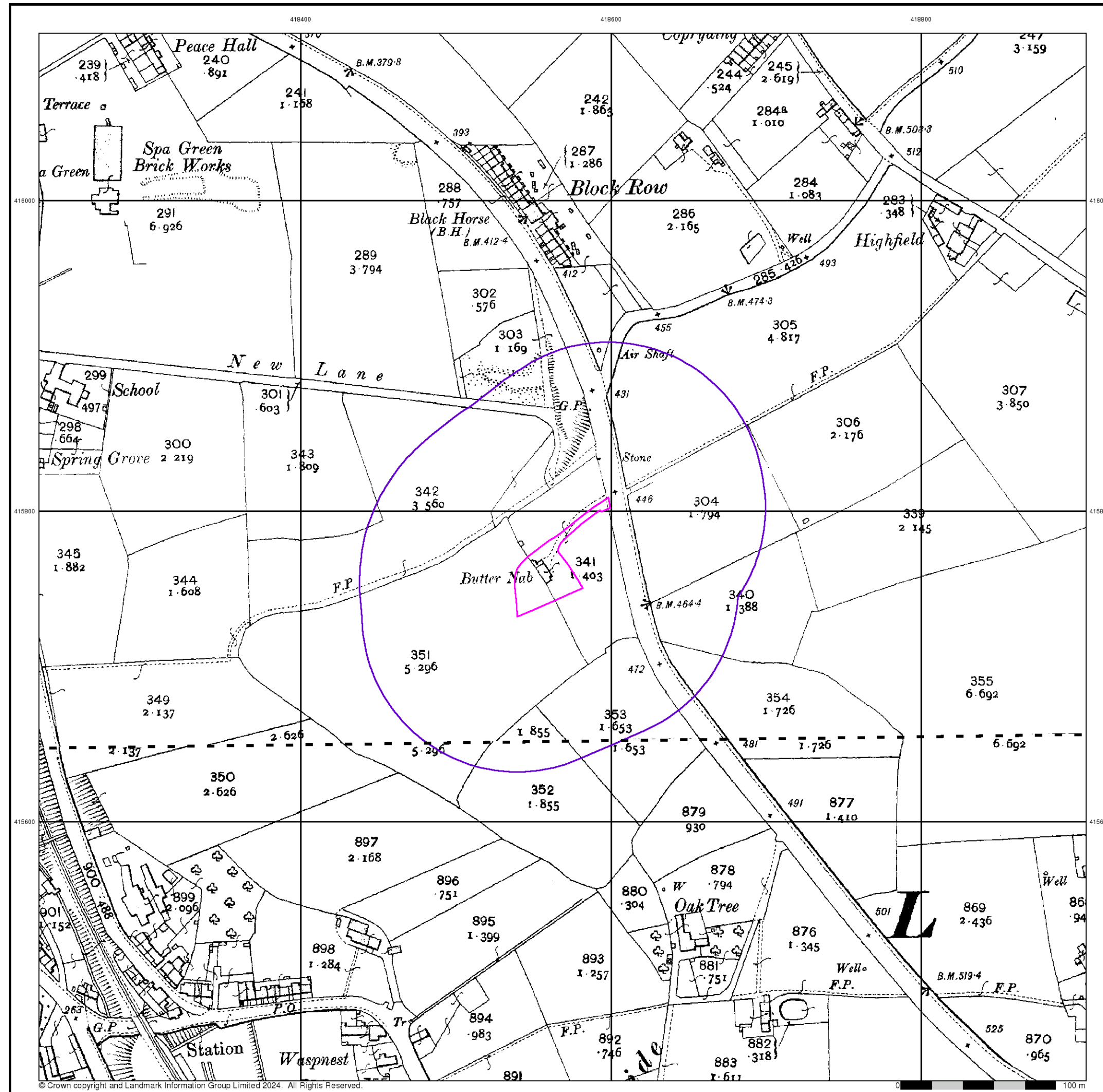
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760

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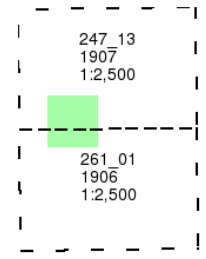
Yorkshire

Published 1906 - 1907

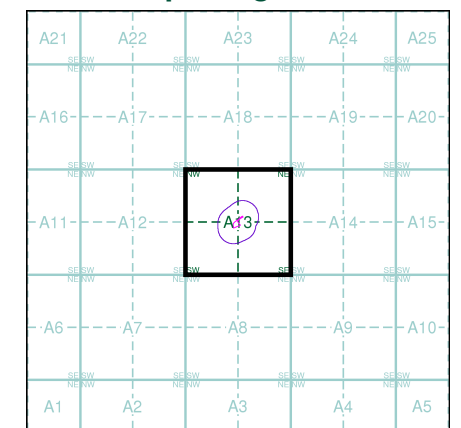
Source map scale - 1:2,500

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)



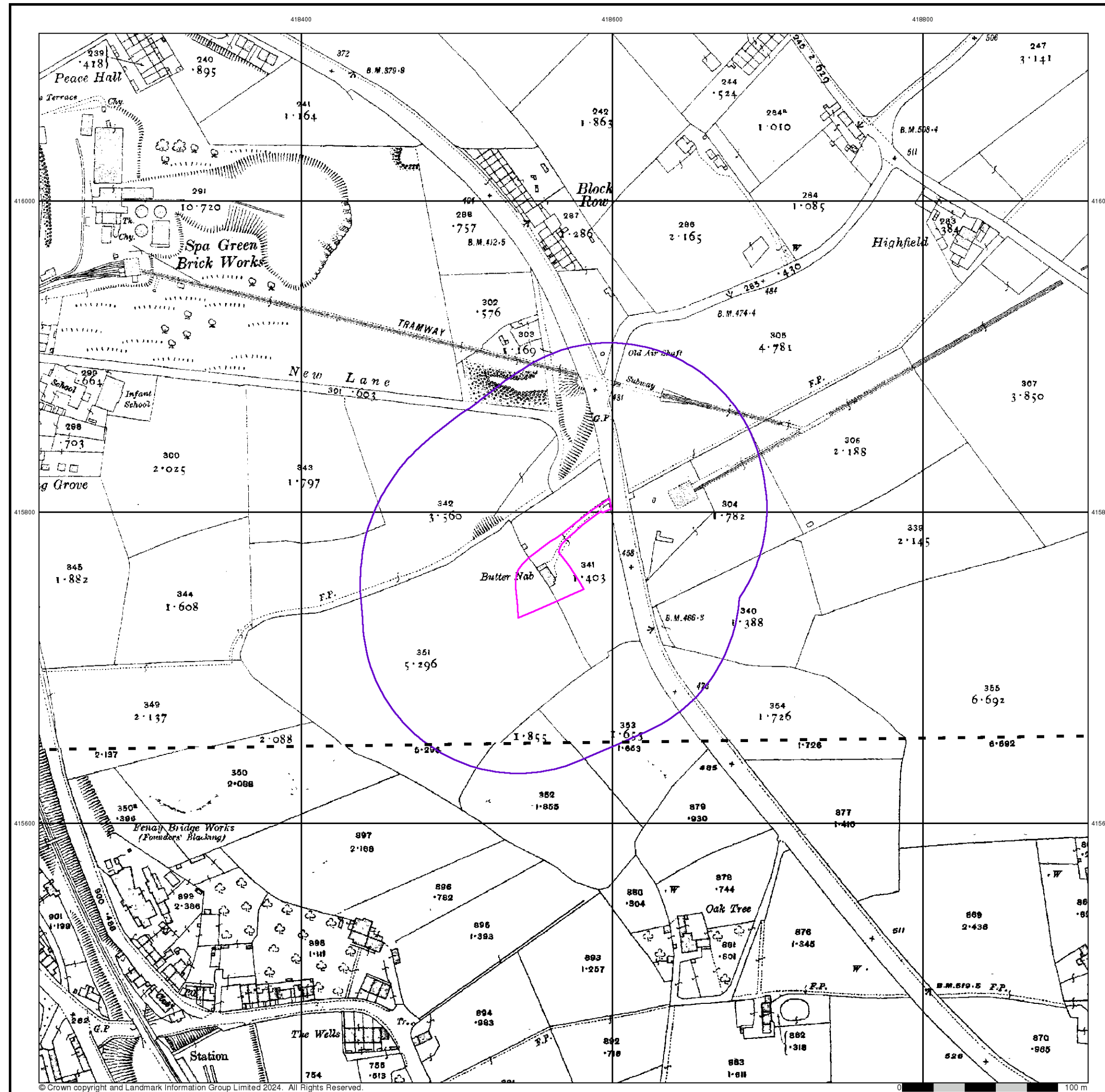
Historical Map - Segment A13



Order Details	
Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	100

Site Details

Site at 418560, 415760



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Yorkshire

Published 1916 - 1919

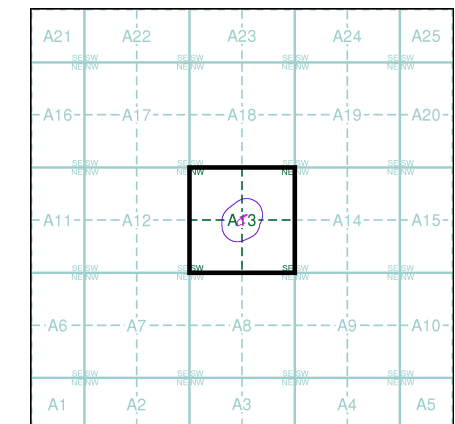
Source map scale - 1:2,500

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)

247_13
1919
1:2,500
261_01
1916
1:2,500

Historical Map - Segment A13



Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760

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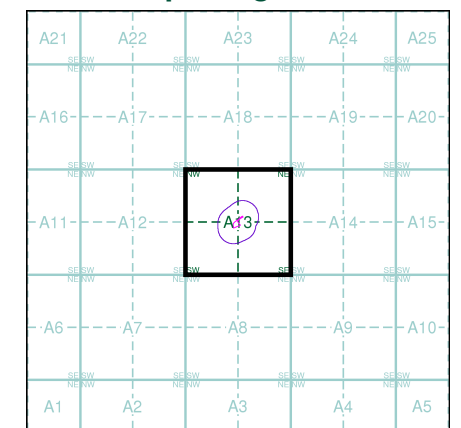
Ordnance Survey Plan Published 1961 Source map scale - 1:2,500

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)

SE1816
1961
1:2,500
SE1815
1961
1:2,500

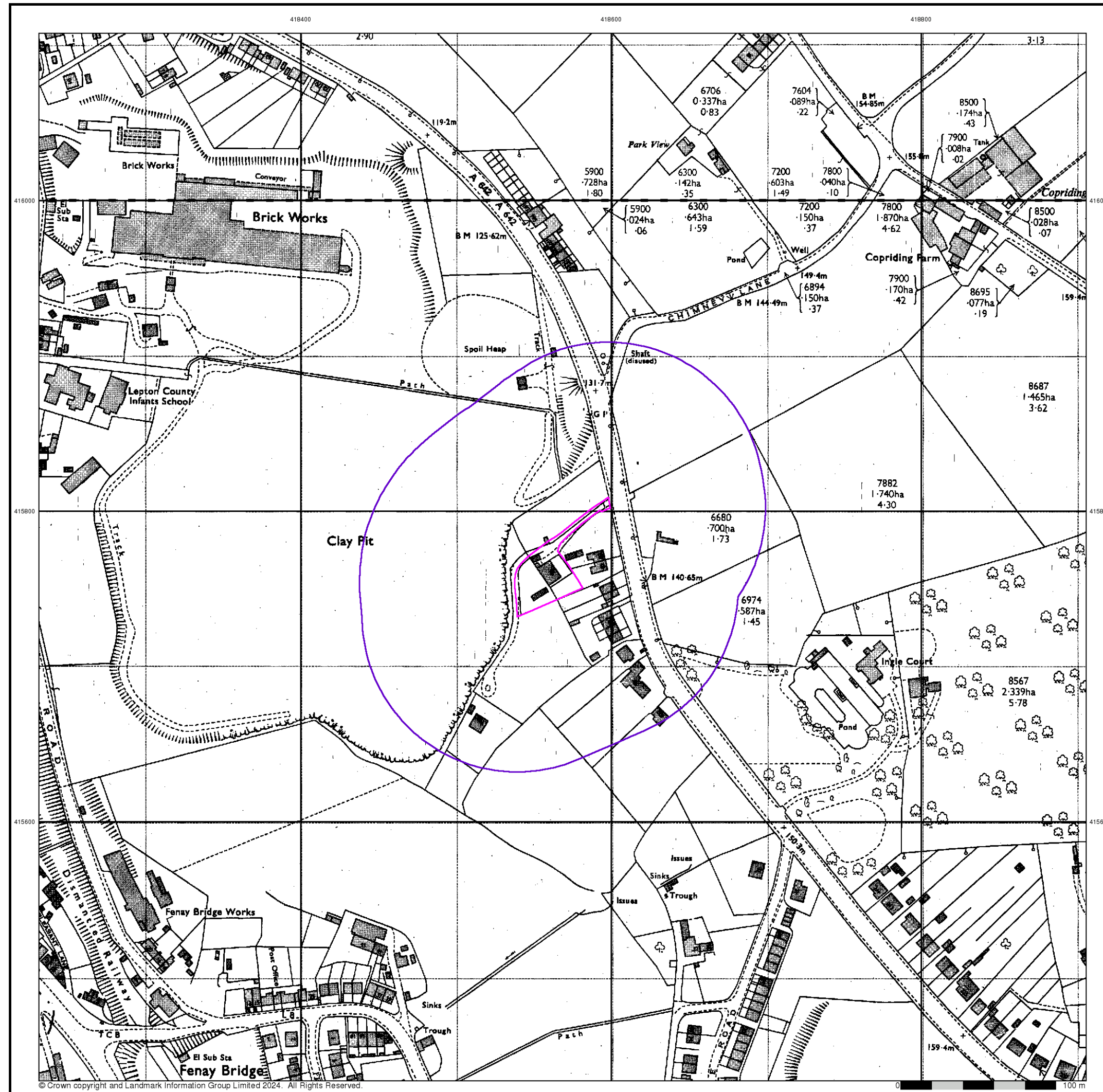
Historical Map - Segment A13



Order Details	
Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	100

Site Details

Site at 418560, 415760



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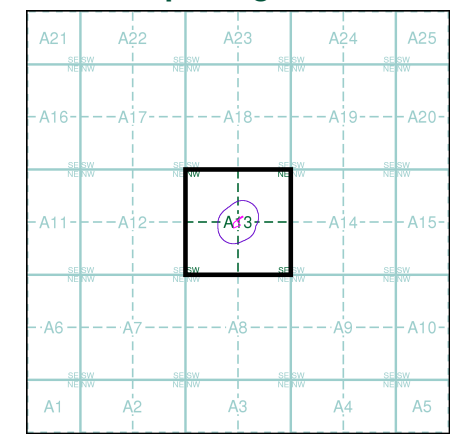
Ordnance Survey Plan
Published 1971 - 1978
Source map scale - 1:2,500

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)

SE1816
1978
1:2,500
SE1815
1971
1:2,500

Historical Map - Segment A13



Order Details
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details
Site at 418560, 415760

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0 100 m

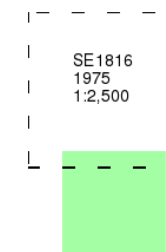
Supply of Unpublished Survey Information

Published 1975

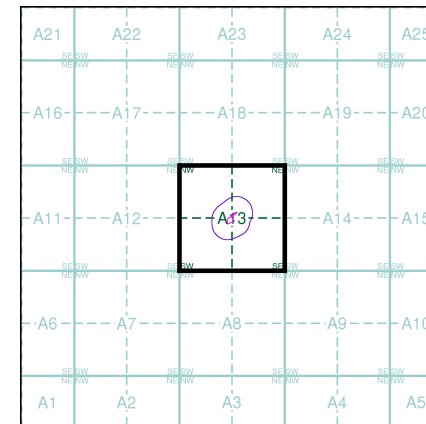
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

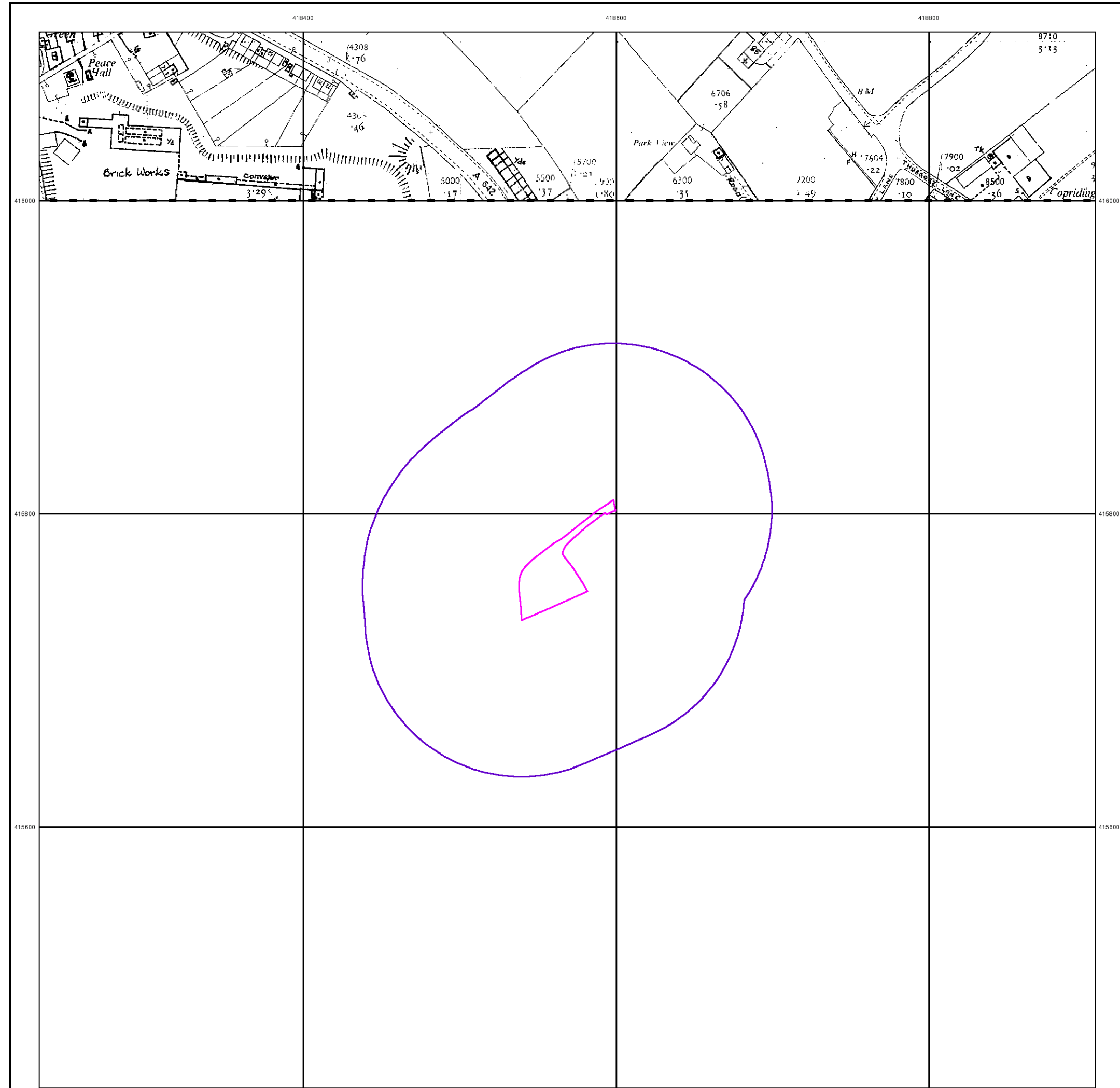


Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760



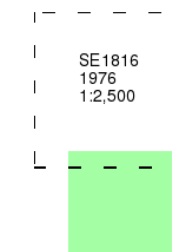
Supply of Unpublished Survey Information

Published 1976

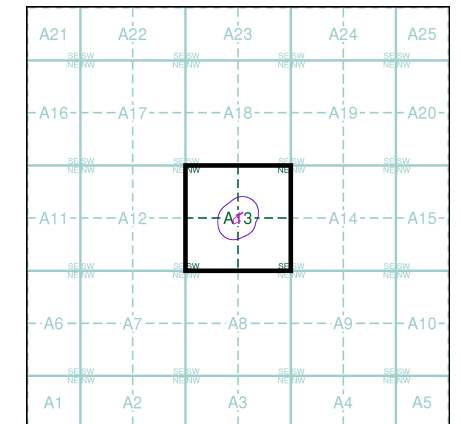
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

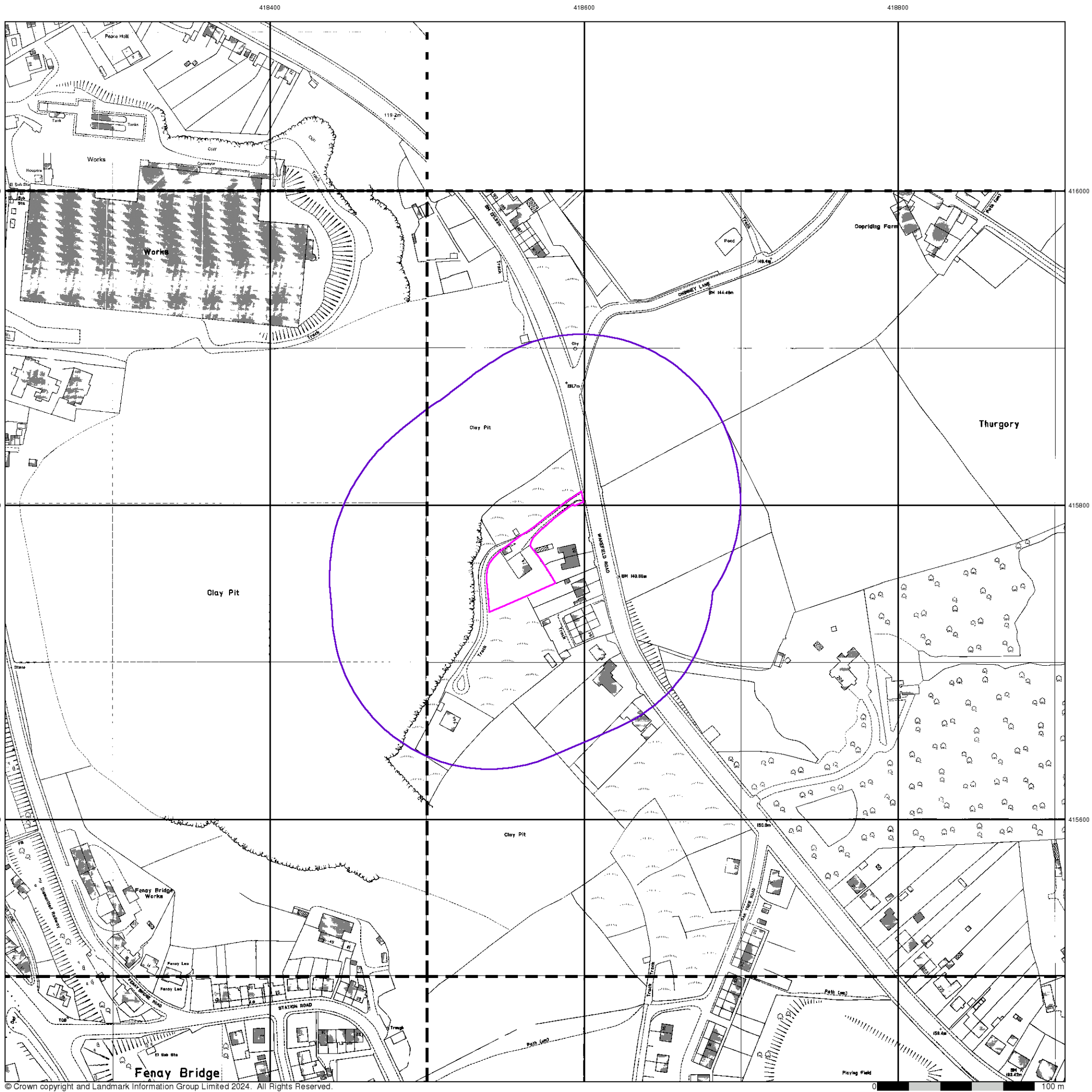


Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760



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Ordnance Survey Plan

Published 1985 - 1986

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.

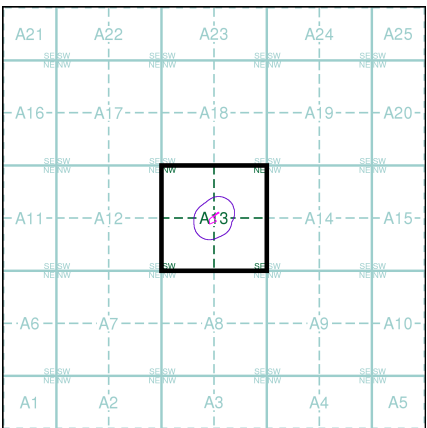
Map Name(s) and Date(s)

E 1816 SW
985
1:1,250

E 1815 NW E 1815 NE
985 986
1:1,250 1:1,250

E 1815 SW E 1815 SE
986 986
1:1,250 1:1,250

Historical Map - Segment A13



Order Details

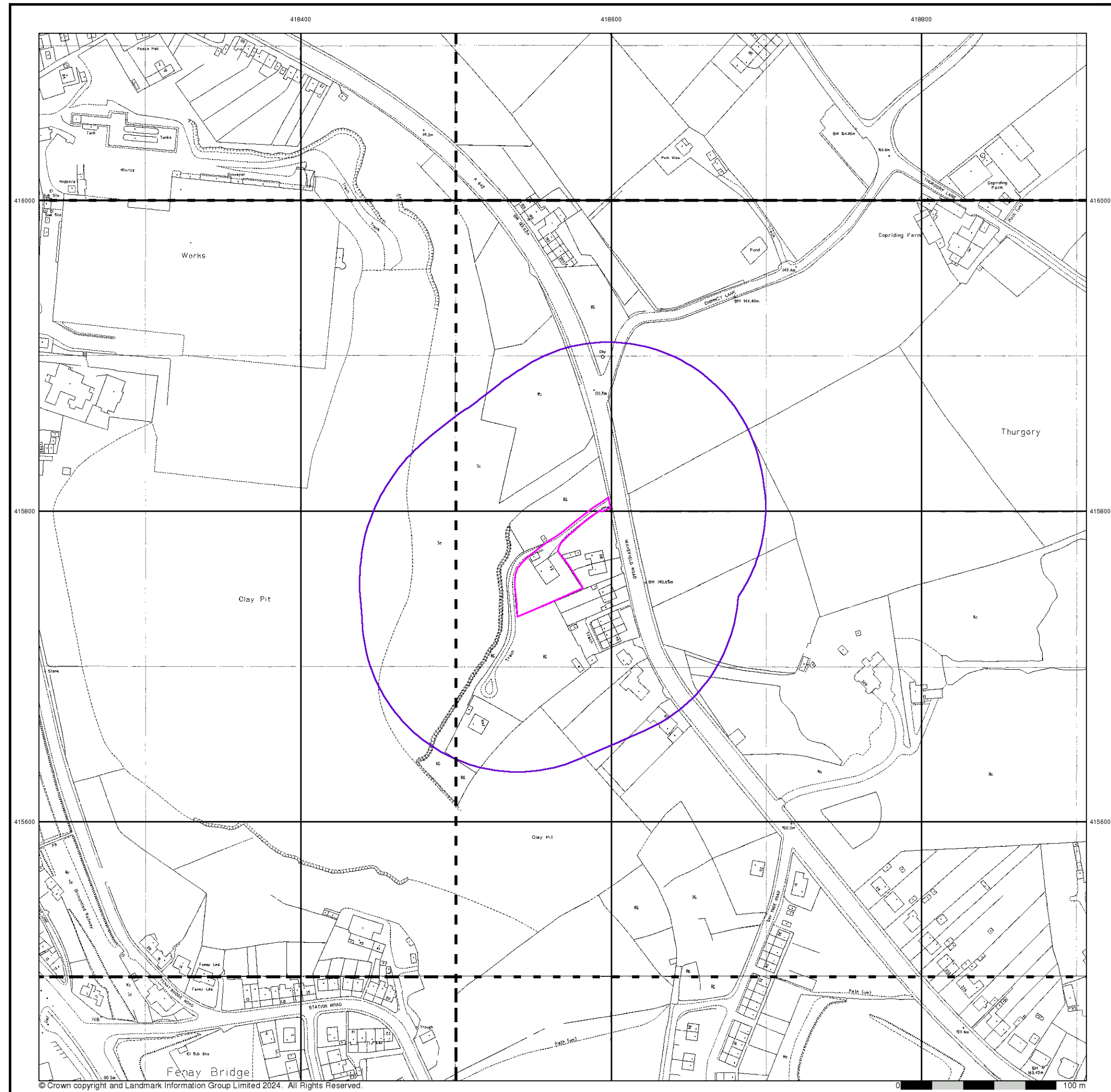
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760

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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)

IE1816SW	IE1816SE
993	993
1:1,250	1:1,250
IE1815NW	IE1815NE
993	993
1:1,250	1:1,250
IE1815SW	IE1815SE
993	993
1:1,250	1:1,250

Historical Map - Segment A13

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	100

Site Details

Site at 418560, 415760

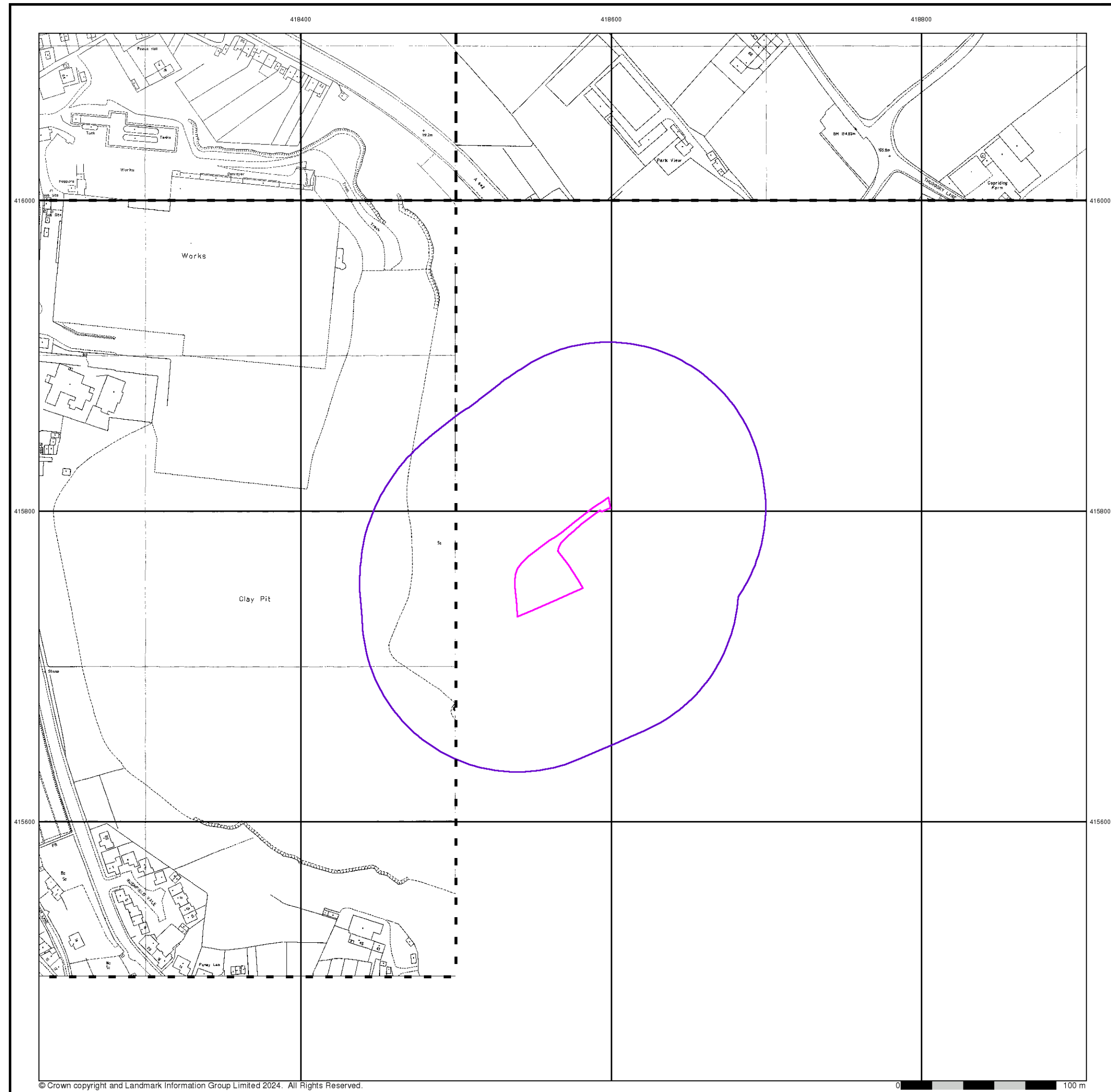
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0 100 m

Large-Scale National Grid Data

Published 1993 - 1995

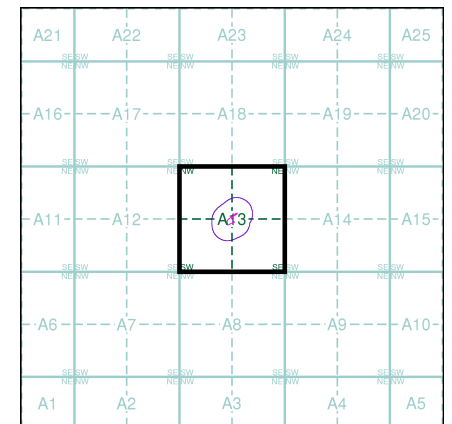
Source map scale - 1:1,250

'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)

SE1816SW 1995 1:1,250	SE1816SE 1993 1:1,250
SE1815NW 1993 1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 100

Site Details

Site at 418560, 415760

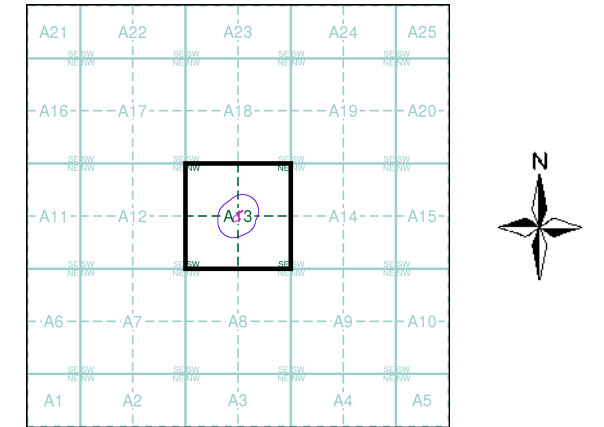


Historical Aerial Photography

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 - Segment A13



Order Details

Order Number: 357153675_1_1

Customer Ref: 49246

National Grid Reference: 418570, 415770

Slice: A

Site Area (Ha): 0.15

Search Buffer (m): 100

Site Details

Site at 418560, 415760

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit

Sand Pit

Other Pits

Quarry

Shingle

Orchard

Osiers

Reeds

Marsh

Mixed Wood

Deciduous

Brushwood

Fir

Furze

Rough Pasture

Arrow denotes flow of water

Trigonometrical Station

Site of Antiquities

Bench Mark

Pump, Guide Post, Signal Post

Well, Spring, Boundary Post

-285 Surface Level

Sketched Contour

Instrumental Contour

Main Roads

Minor Roads

Sunken Road

Raised Road

Road over Railway

Railway over River

Railway over Road

Level Crossing

Road over River or Canal

Road over Stream

----- 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

Glasshouse

Sloping Masonry

Pylon

Electricity Transmission Line

Pole

Cutting

Embankment

Standard Gauge Multiple Track

Standard Gauge Single Track

Siding, Tramway or Mineral Line

Narrow Gauge

----- Geographical County

----- Administrative County, County Borough or County of City

----- Municipal Borough, Urban or Rural District, Burgh or District Council

..... Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries

----- Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS Boundary Post or Stone

Ch Church

CH Club House

F E Sta Fire Engine Station

FB Foot Bridge

Fn Fountain

GP Guide Post

MP Mile Post

MS Mile Stone

Pol Sta Police Station

PO Post Office

PC Public Convenience

PH Public House

SB Signal Box

Spr Spring

TCB Telephone Call Box

TCP Telephone Call Post

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

----- Overhead detail

----- Multi-track railway

----- Single track railway

----- County boundary (England only)

----- District, Unitary, Metropolitan, London Borough boundary

----- Civil, parish or community boundary

----- Constituency boundary

Area of wooded vegetation

Non-coniferous trees

Coniferous trees (scattered)

Coniferous trees

Positioned tree

Orchard

Coppice or Osiers

Rough Grassland

Heath

Scrub

Marsh, Salt Marsh or Reeds

Water feature

Flow arrows

MHW(S) Mean high water (springs)

MLW(S) Mean low water (springs)

Telephone line (where shown)

Electricity transmission line (with poles)

Bench mark (where shown)

Triangulation station

Point feature (e.g. Guide Post or Mile Stone)

Pylon, flare stack or lighting tower

Site of (antiquity)

Glasshouse

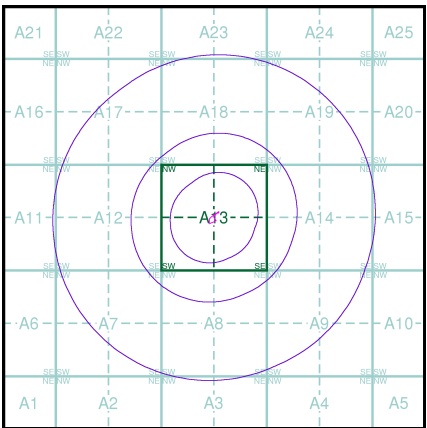
General Building

Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854 - 1855	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1908	5
Yorkshire	1:10,560	1930	6
Yorkshire	1:10,560	1933	7
Yorkshire	1:10,560	1938	8
Yorkshire	1:10,560	1948	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1965 - 1968	11
Ordnance Survey Plan	1:10,000	1976 - 1979	12
Batley	1:10,000	1983	13
Huddersfield	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1989	15
Ordnance Survey Plan	1:10,000	1992	16
10K Raster Mapping	1:10,000	2000	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Historical Map - Slice A



Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

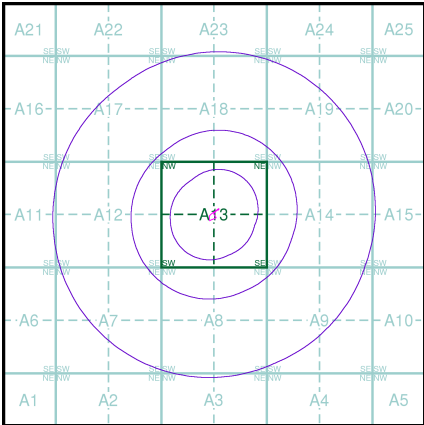
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854 - 1855	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1908	5
Yorkshire	1:10,560	1930	6
Yorkshire	1:10,560	1933	7
Yorkshire	1:10,560	1938	8
Yorkshire	1:10,560	1948	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1965 - 1968	11
Ordnance Survey Plan	1:10,000	1976 - 1979	12
Batley	1:10,000	1983	13
Huddersfield	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1989	15
Ordnance Survey Plan	1:10,000	1992	16
10K Raster Mapping	1:10,000	2000	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Russian Map - Slice A



Order Details

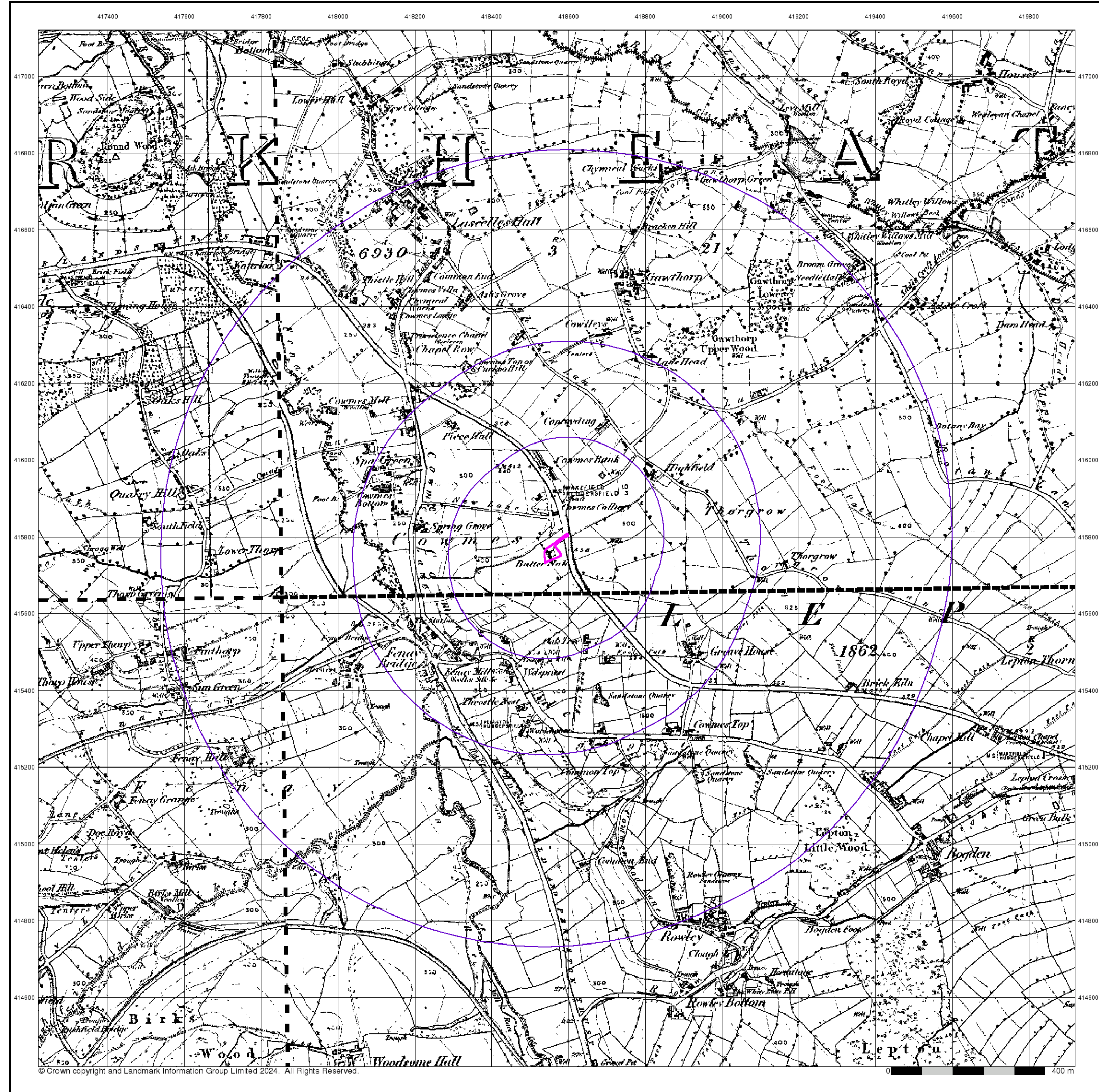
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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Yorkshire

Published 1854 - 1855

Source map scale - 1:10,560

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Map Name(s) and Date(s)

24600 1854 1:10,560	24700 1855 1:10,560
26000 1854 1:10,560	26100 1854 1:10,560

Historical Map - Slice A

Order Details

Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

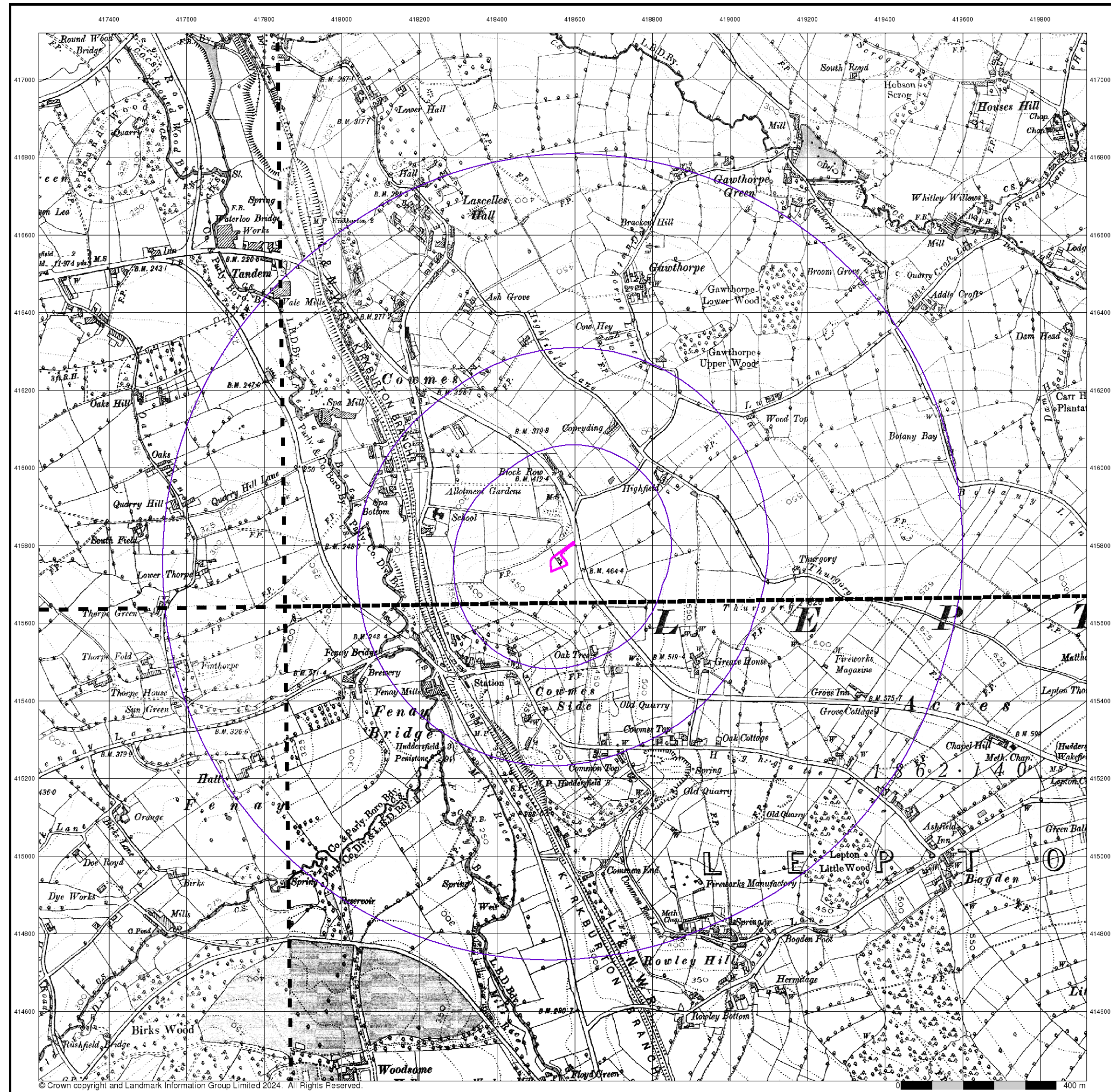
Site at 418560, 415760

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A Landmark Information Group Service v50.0 03-Sep-2024 Page 3 of 19



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Yorkshire

Published 1894

Source map scale - 1:10,560

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

Map Name(s) and Date(s)

246SE 1894 1:10,560	247SW 1894 1:10,560
260NE 1894 1:10,560	261NW 1894 1:10,560

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

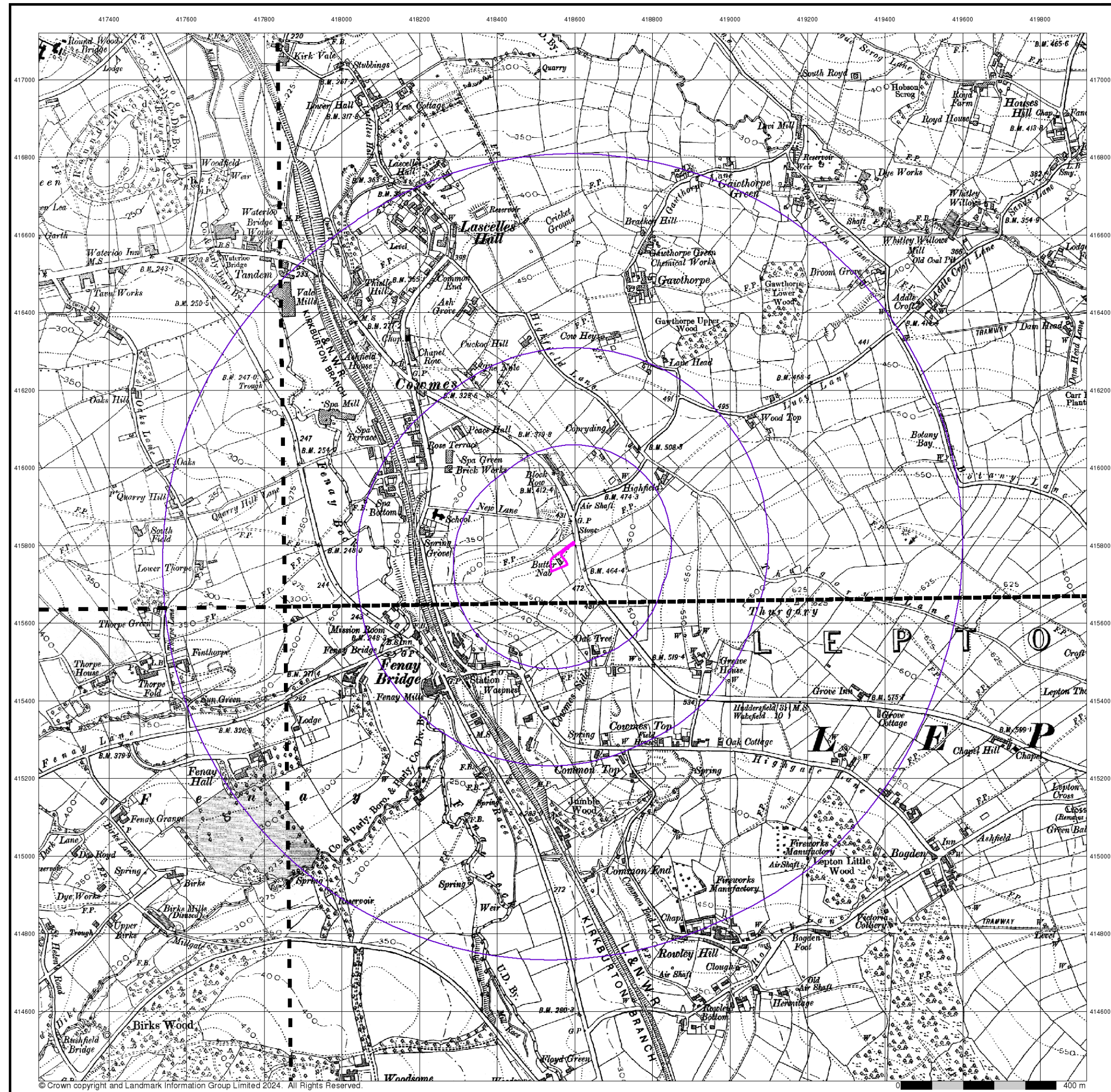
Site at 418560, 415760

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Yorkshire

Published 1908

Source map scale - 1:10,560

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Map Name(s) and Date(s)

246SE 1908 1:10,560	247SW 1908 1:10,560
260NE 1908 1:10,560	261NW 1908 1:10,560

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

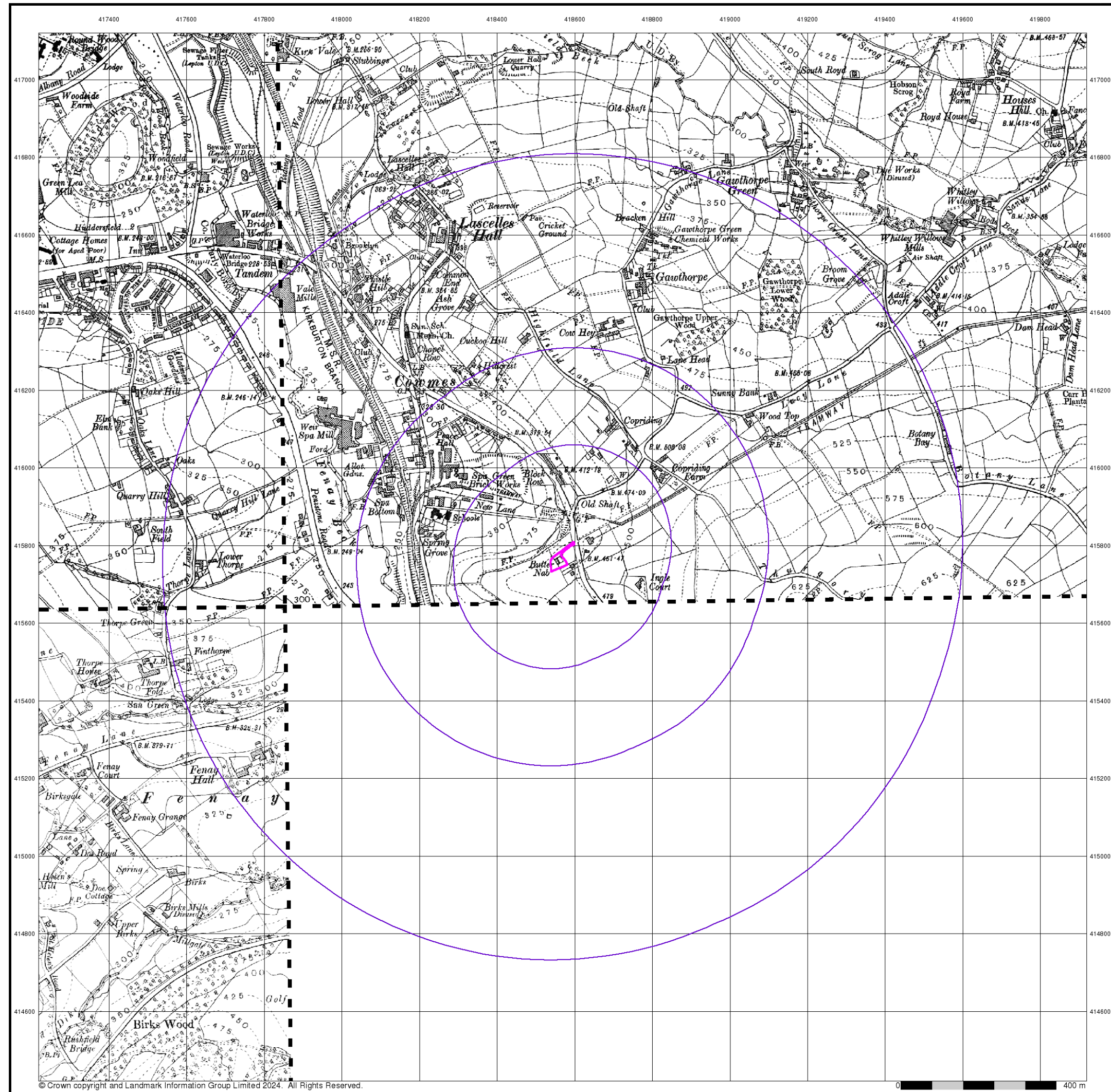
Site at 418560, 415760

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Yorkshire

Published 1930

Source map scale - 1:10,560

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Map Name(s) and Date(s)

246SE 1930 1:10,560	247SW 1930 1:10,560
260NE 1930 1:10,560	

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

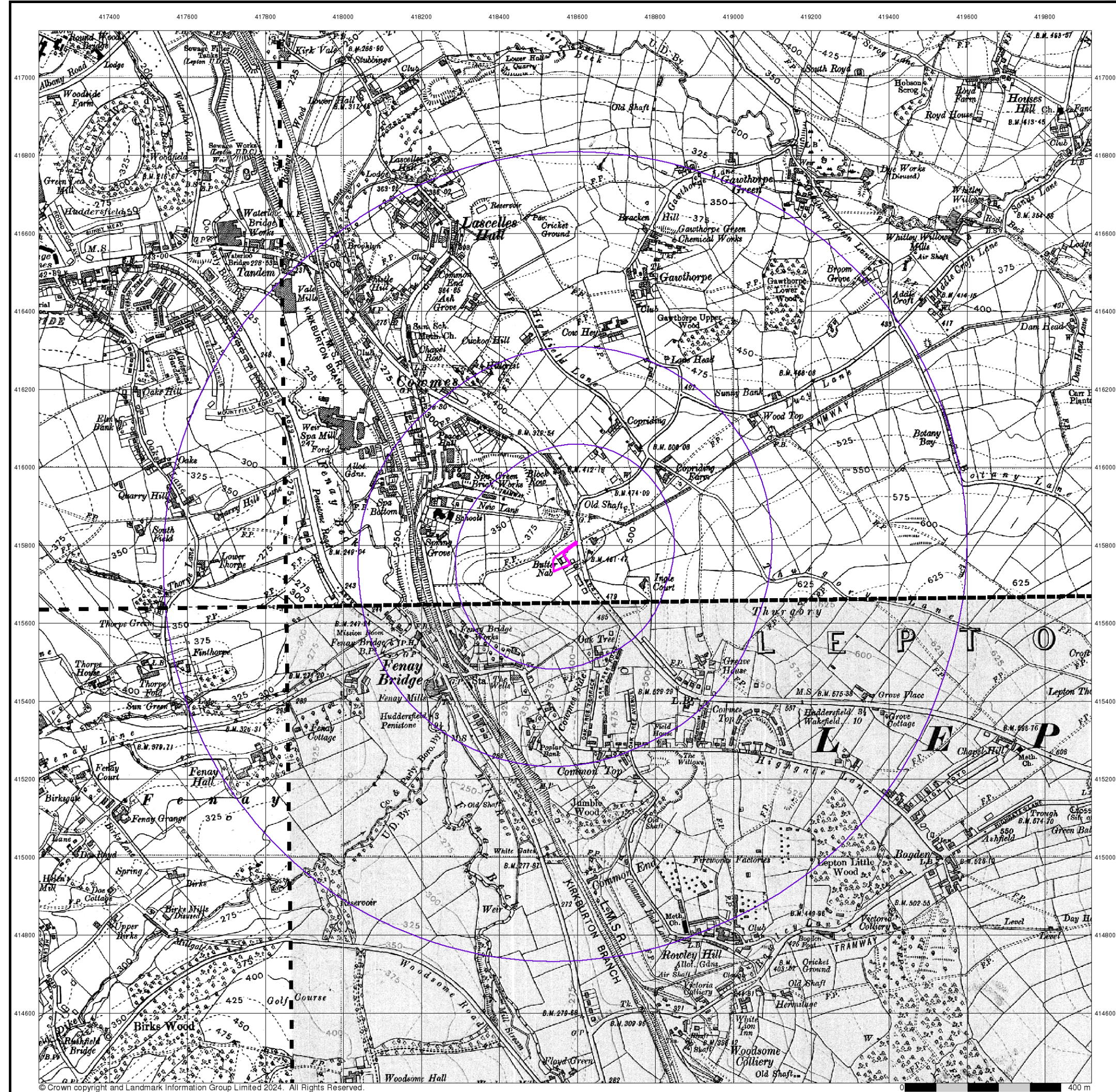
Site at 418560, 415760

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Yorkshire

Published 1938

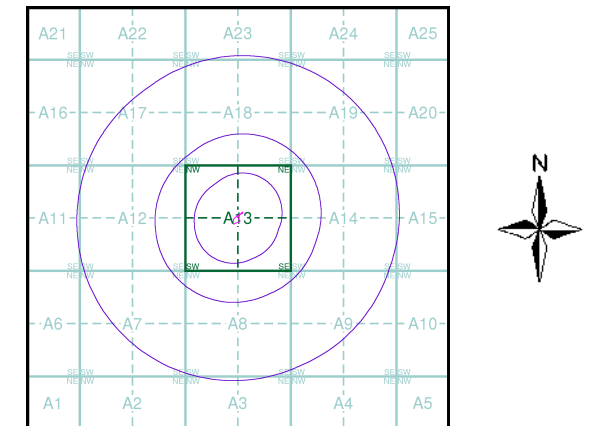
Source map scale - 1:10,560

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)

246SE 1938 1:10,560	247SW 1938 1:10,560
260NE 1938 1:10,560	261NW 1938 1:10,560

Historical Map - Slice A



Order Details

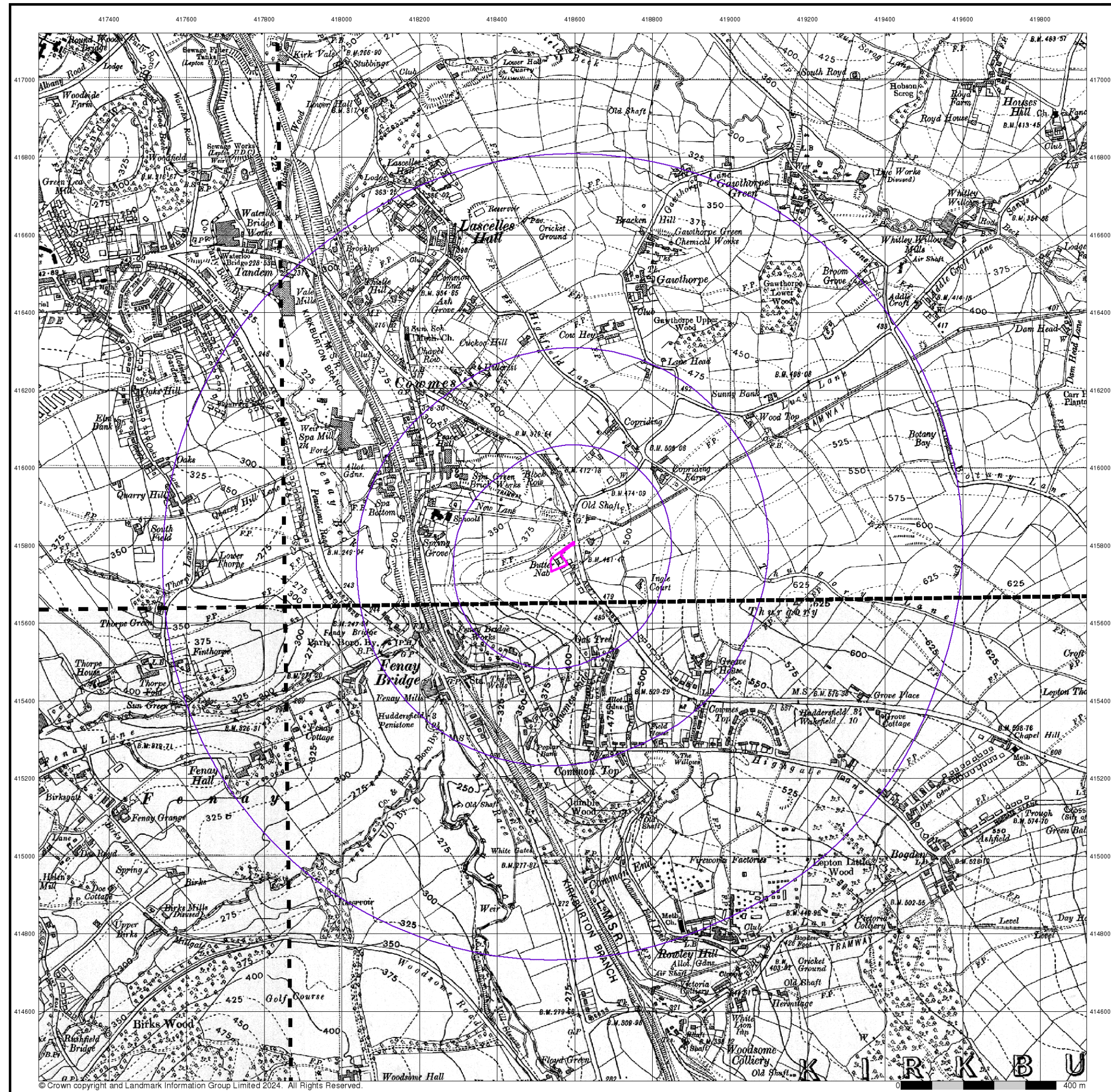
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1948

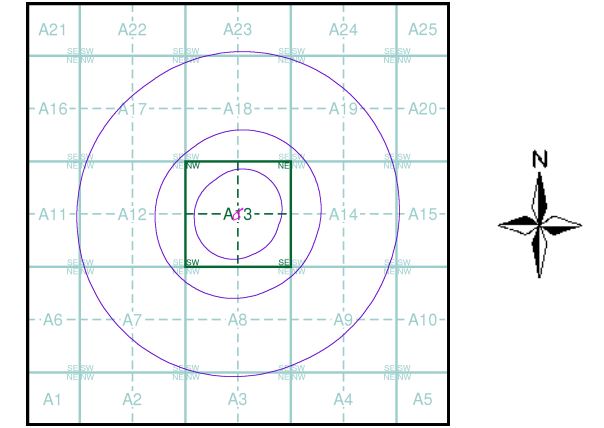
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

246SE 1948 1:10,560	247SW 1948 1:10,560
260NE 1948 1:10,560	261NW 1948 1:10,560

Historical Map - Slice A



Order Details

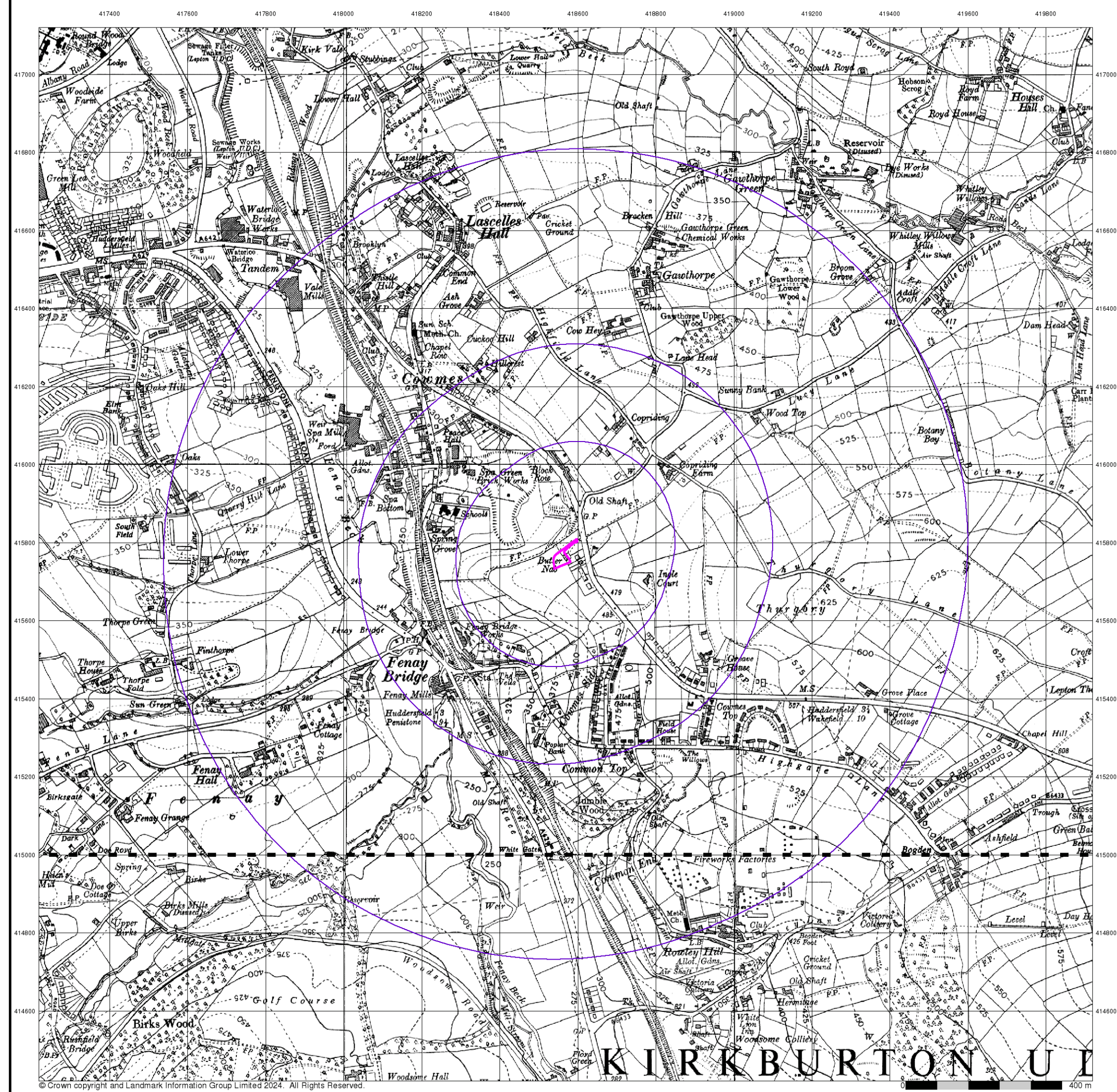
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

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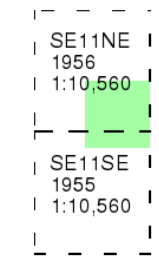
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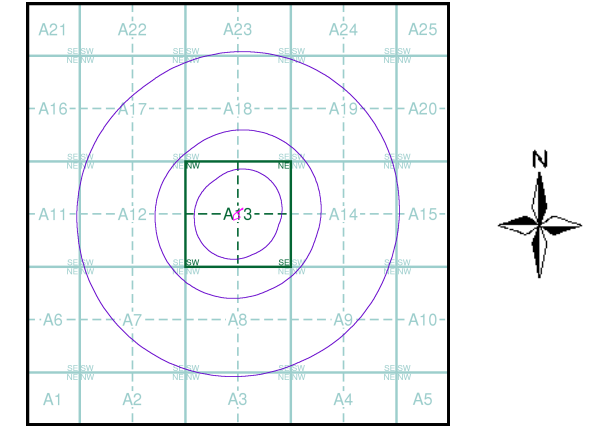
Ordnance Survey Plan Published 1955 - 1956 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



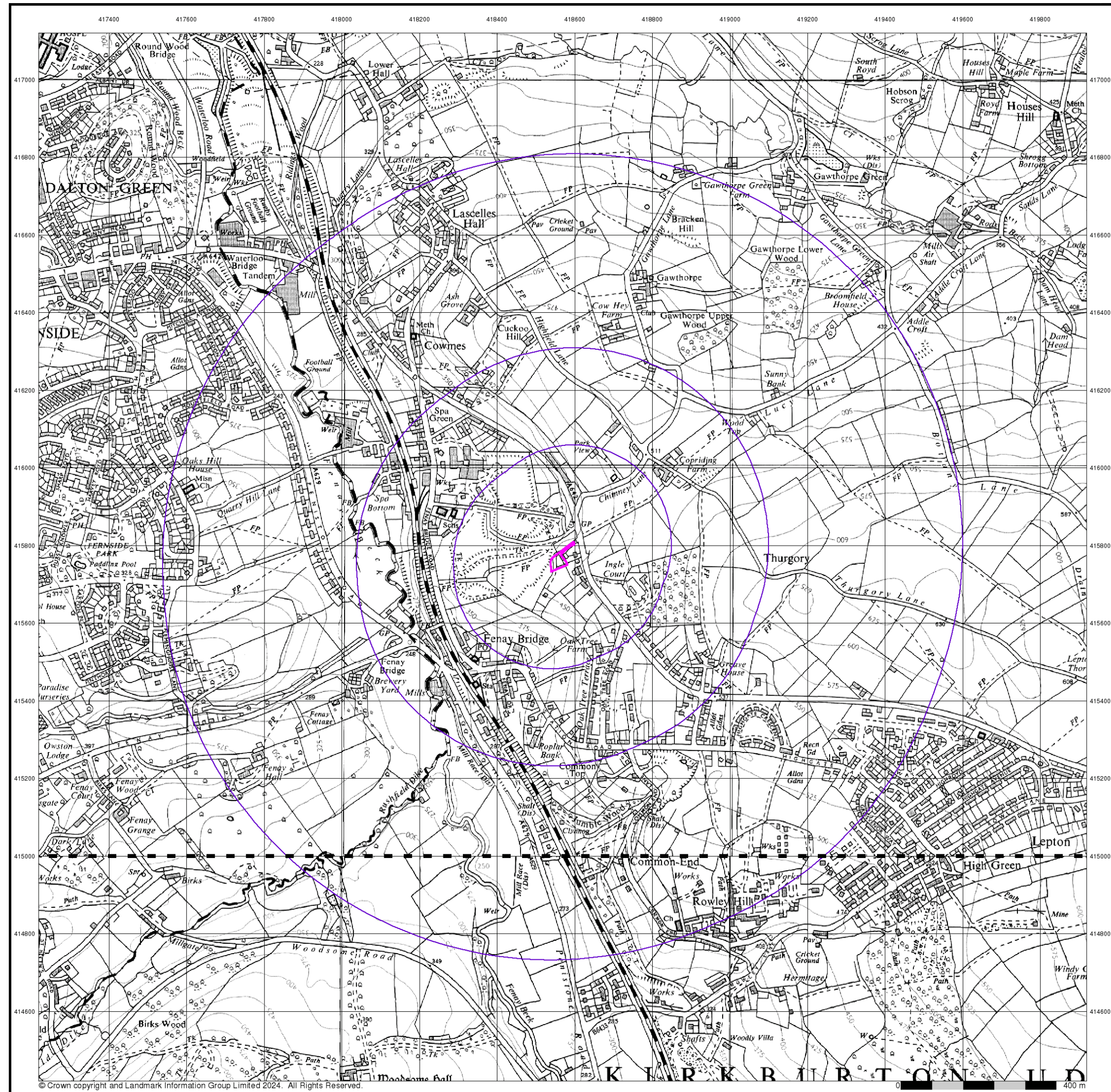
Historical Map - Slice A



Order Details	
Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760



Ordnance Survey Plan

Published 1965 - 1968

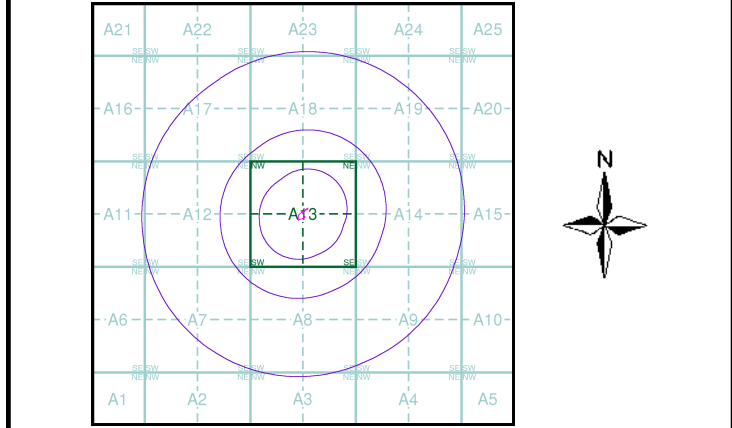
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE11NE	1965
1:10,560	
SE11SE	1968
1:10,560	

Historical Map - Slice A

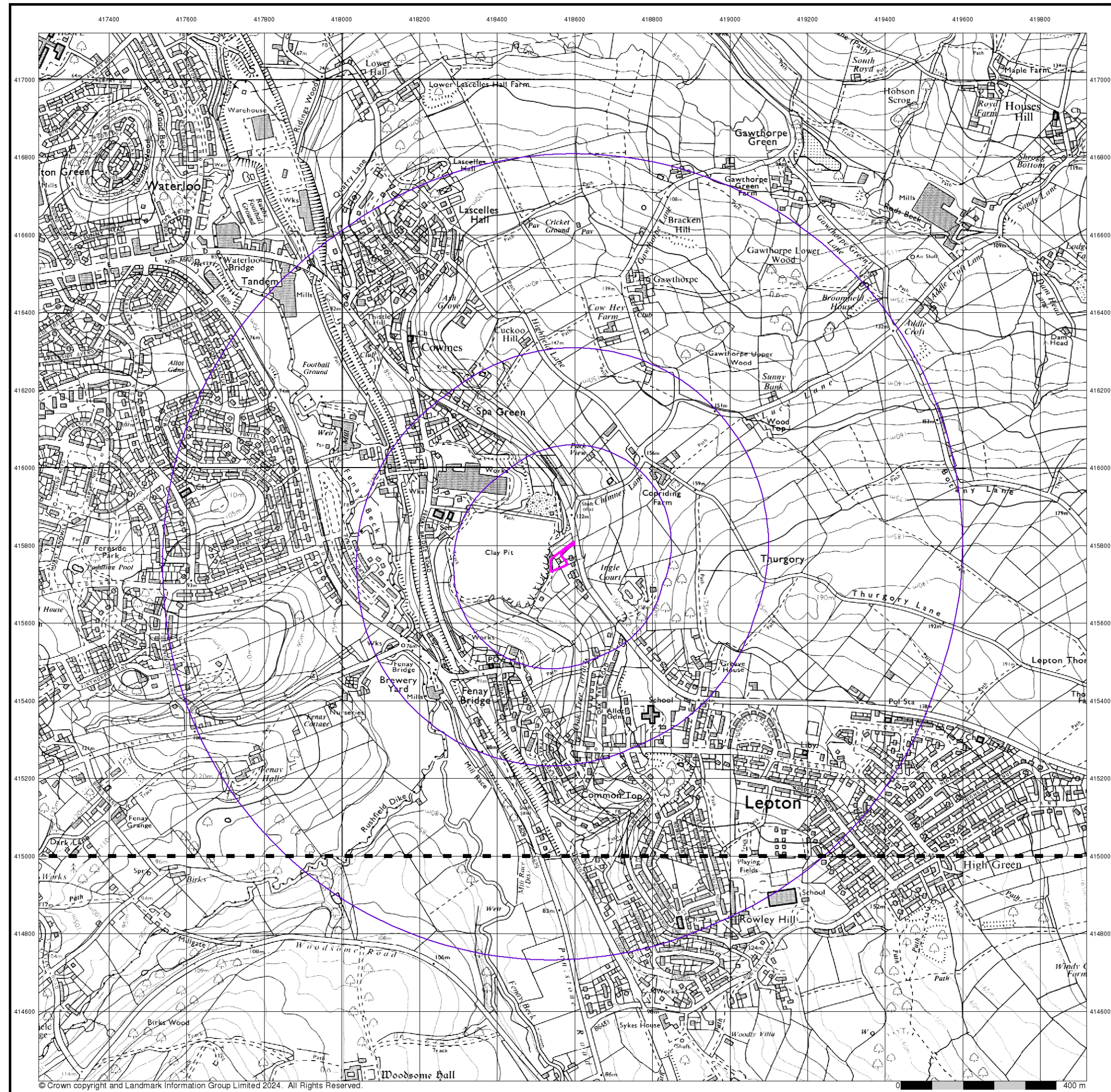


Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760



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Ordnance Survey Plan

Published 1976 - 1979

Source map scale - 1:10,000

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Map Name(s) and Date(s)

SE11NE	1976
1:10,000	
SE11SE	1979
1:10,000	

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760

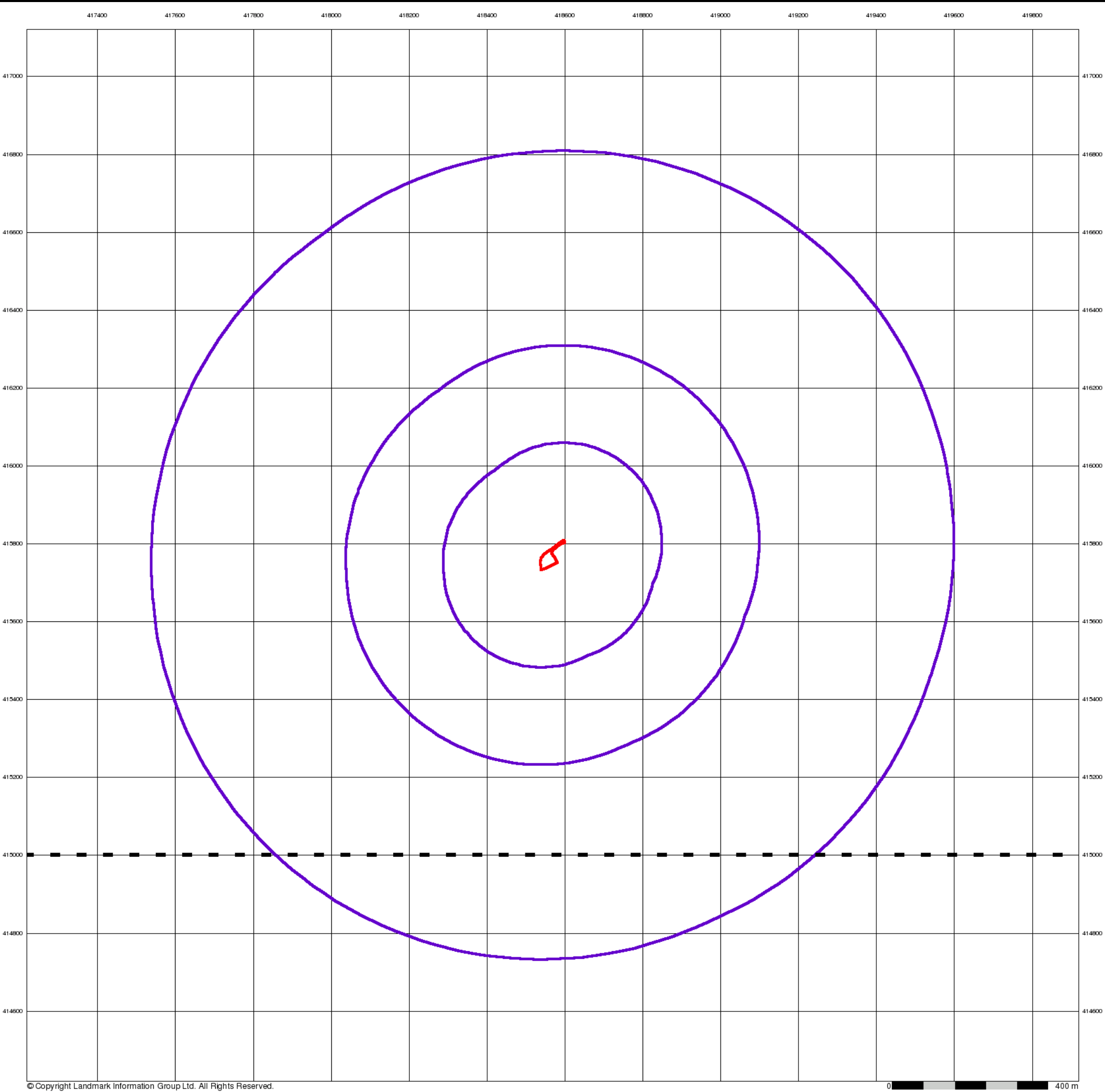
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Batley

Published 1983

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE11NE
1983
1:10,000

Russian Map - Slice A

A21A22A23A24A25
SESW
SESW
SESW
SESW
SESW
A16A17A18A19A20
SESW
SESW
SESW
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A11A12A13A14A15
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SESW
A6A7A8A9A10
A1A2A3A4A5

N

Order Details

Order Number:

357153675_1_1

Customer Ref:

49246

National Grid Reference:

418570, 415770

Slice:

A

Site Area (Ha):

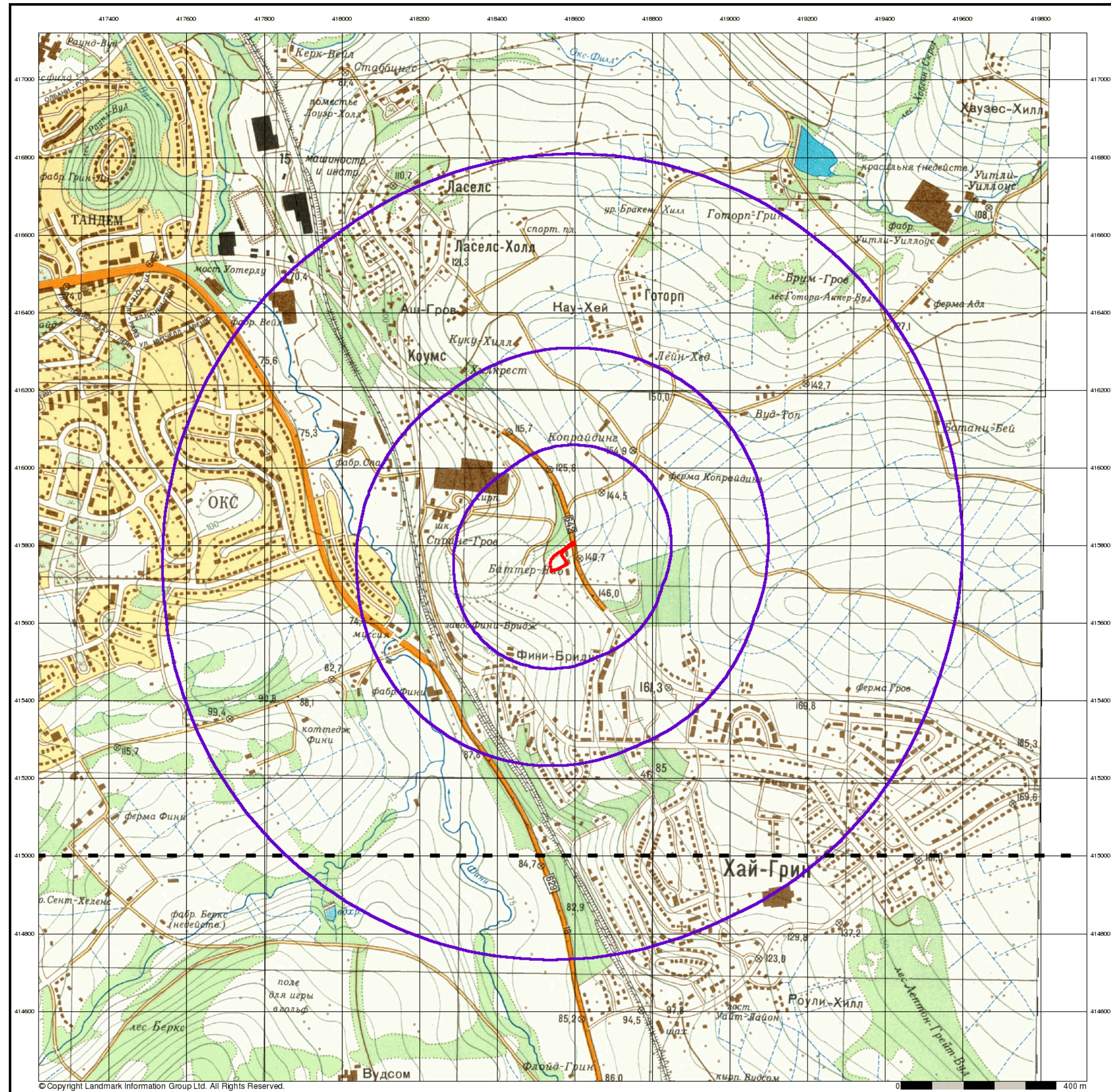
0.15

Search Buffer (m):

1000

Site Details

Site at 418560, 415760



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Huddersfield

Published 1984

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE11 NE	1984	1:10,000
SE11 SE	1984	1:10,000

Russian Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760

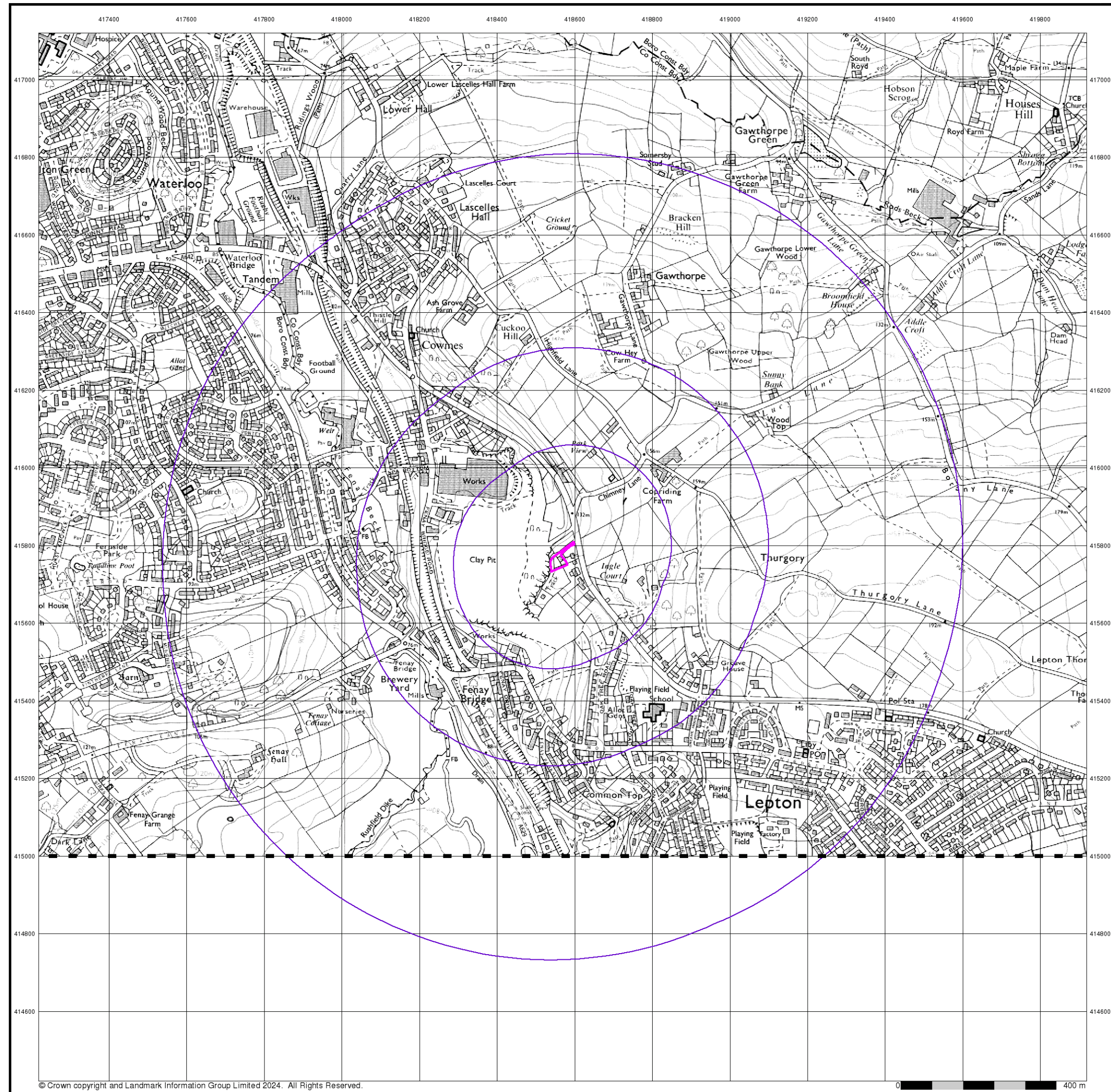
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Ordnance Survey Plan

Published 1989

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE11NE

1989

1:10,000

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

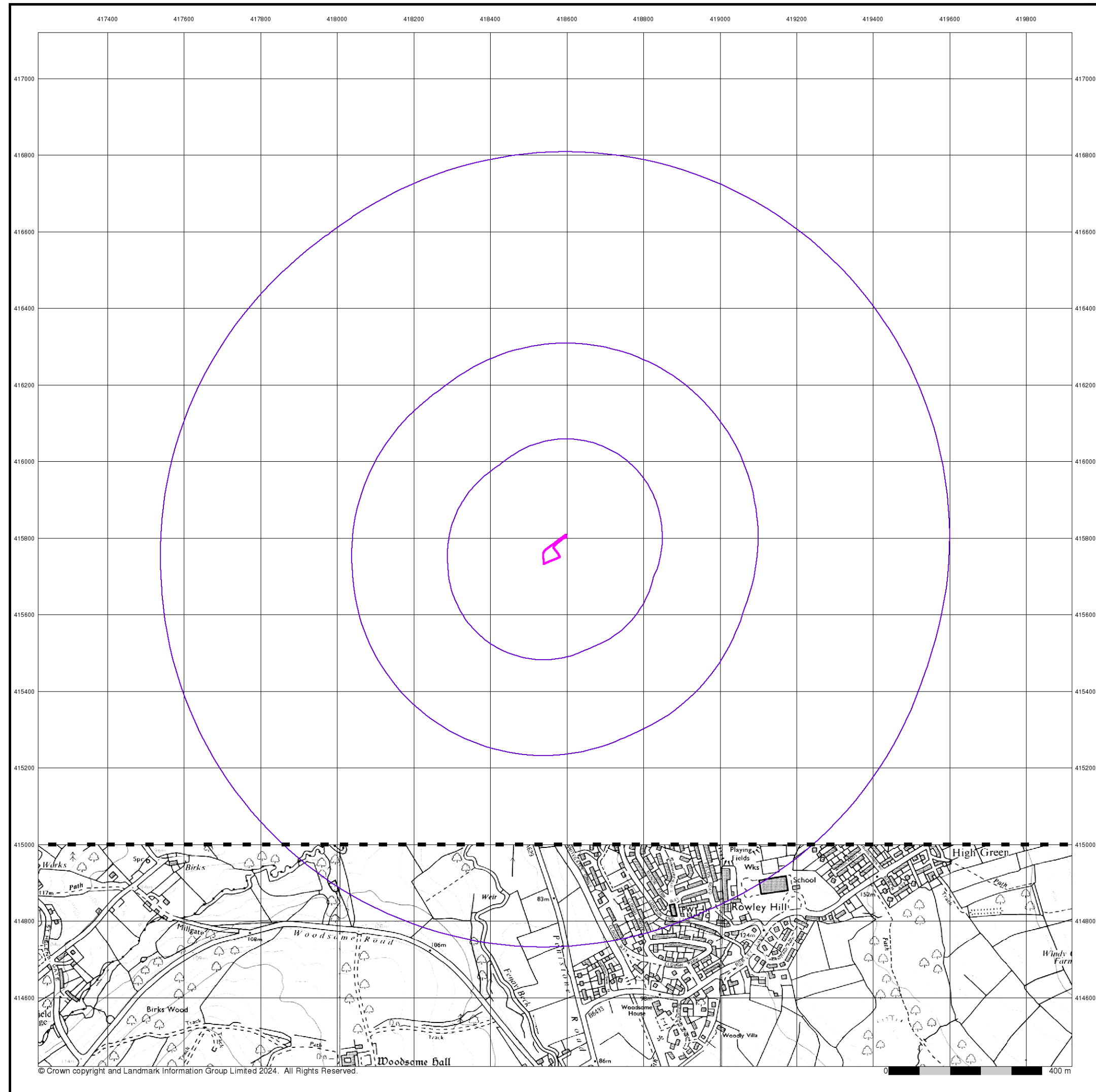
Site at 418560, 415760

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Ordnance Survey Plan

Published 1992

Source map scale - 1:10,000

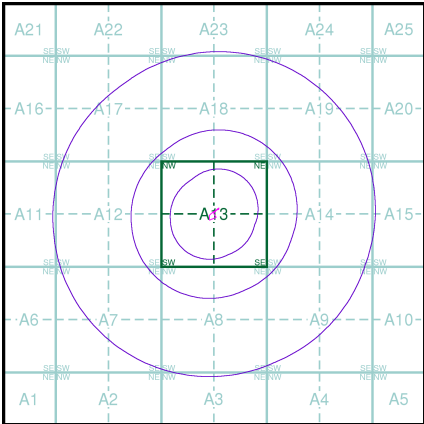
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)



SE11SE
1992
1:10,000

Historical Map - Slice A



Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

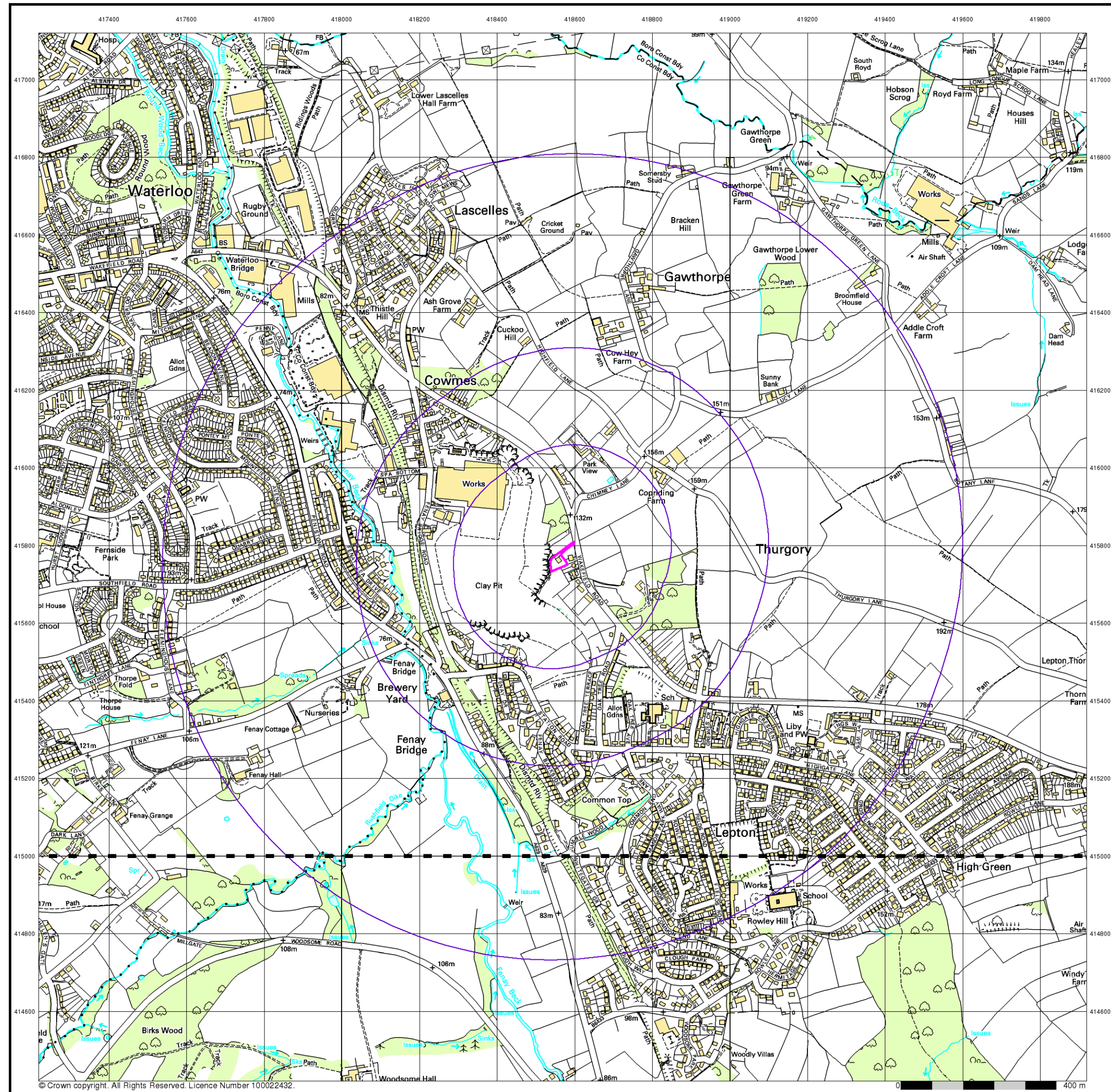
Site at 418560, 415760

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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)

SE11NE	2000	1:10,000
SE11SE	2000	1:10,000

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760

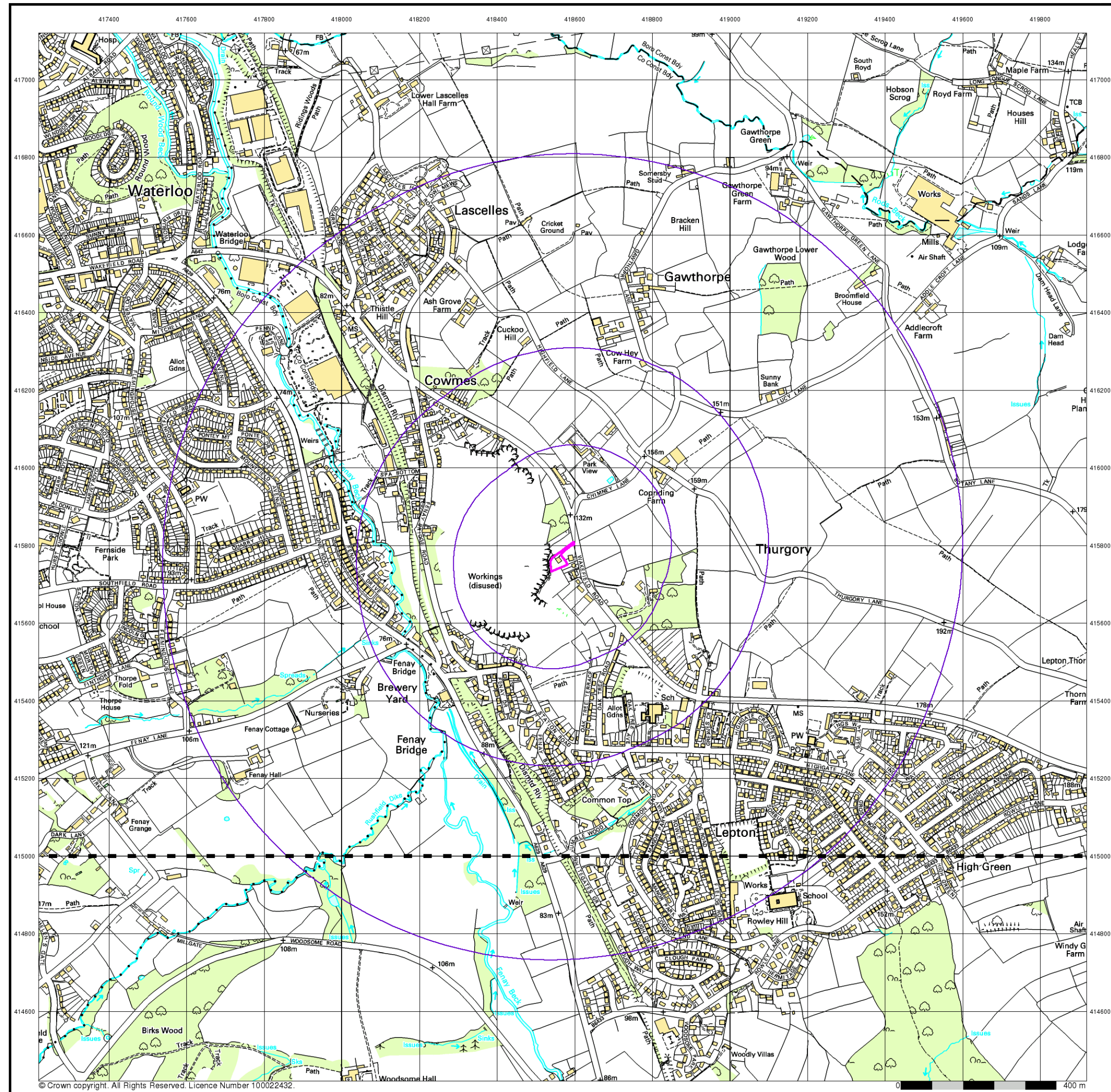
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10k Raster Mapping

Published 2006

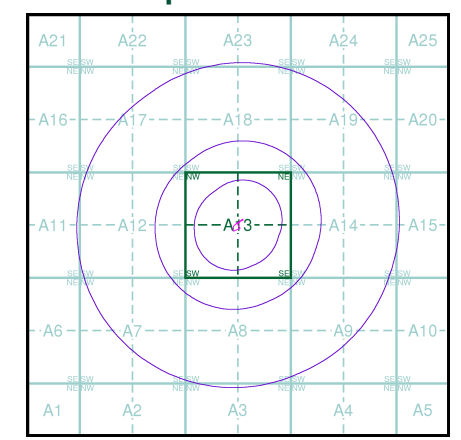
Source map scale - 1:10,000

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)

SE11NE
2006
1:10,000
SE11SE
2006
1:10,000

Historical Map - Slice A



Order Details

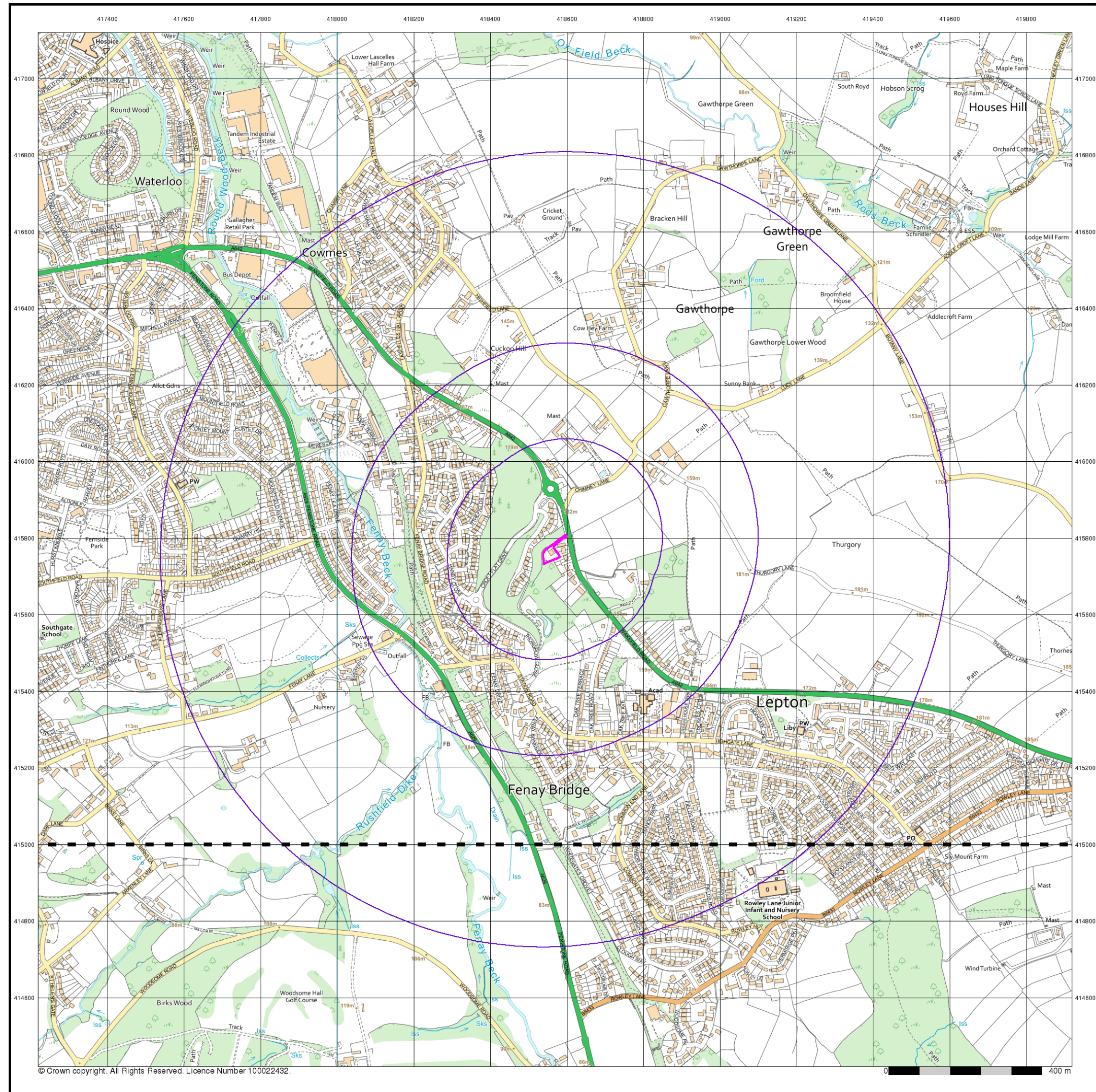
Order Number: 357153675_1_1
Customer Ref: 49246
National Grid Reference: 418570, 415770
Slice: A
Site Area (Ha): 0.15
Search Buffer (m): 1000

Site Details

Site at 418560, 415760

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VectorMap Local

Published 2024

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)

SE11NE
2024
Variable

SE11SE
2024
Variable

Historical Map - Slice A

Order Details

Order Number:	357153675_1_1
Customer Ref:	49246
National Grid Reference:	418570, 415770
Slice:	A
Site Area (Ha):	0.15
Search Buffer (m):	1000

Site Details

Site at 418560, 415760

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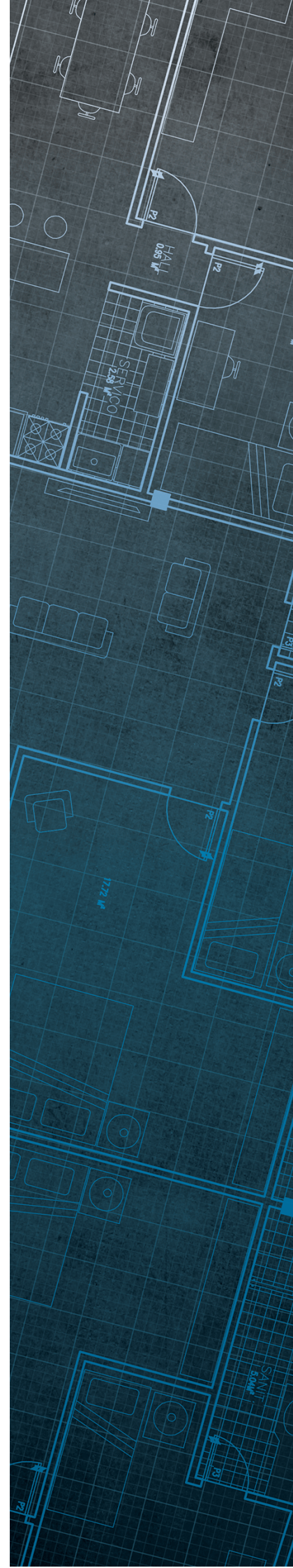


The Coal
Authority

Consultants Coal Mining Report

74 Wakefield Road
Lepton
Huddersfield
Kirklees
HD8 0BL

Date of enquiry:	3 September 2024
Date enquiry received:	3 September 2024
Issue date:	3 September 2024
Our reference:	51003447746001
Your reference:	49246



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

EASTWOOD & PARTNERS (CONSULTING
ENGINEERS) LTD

Enquiry address

74 Wakefield Road
Lepton
Huddersfield
Kirklees
HD8 0BL

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	418415-001	418595 415900	has been capped to an unknown specification	Coal	
Adit	418415-004	418581 415871		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

PO0	10062	
-----	-------	--

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BLACK BED	Coal	Yes	26.6	North-West	218

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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.

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.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

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 specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

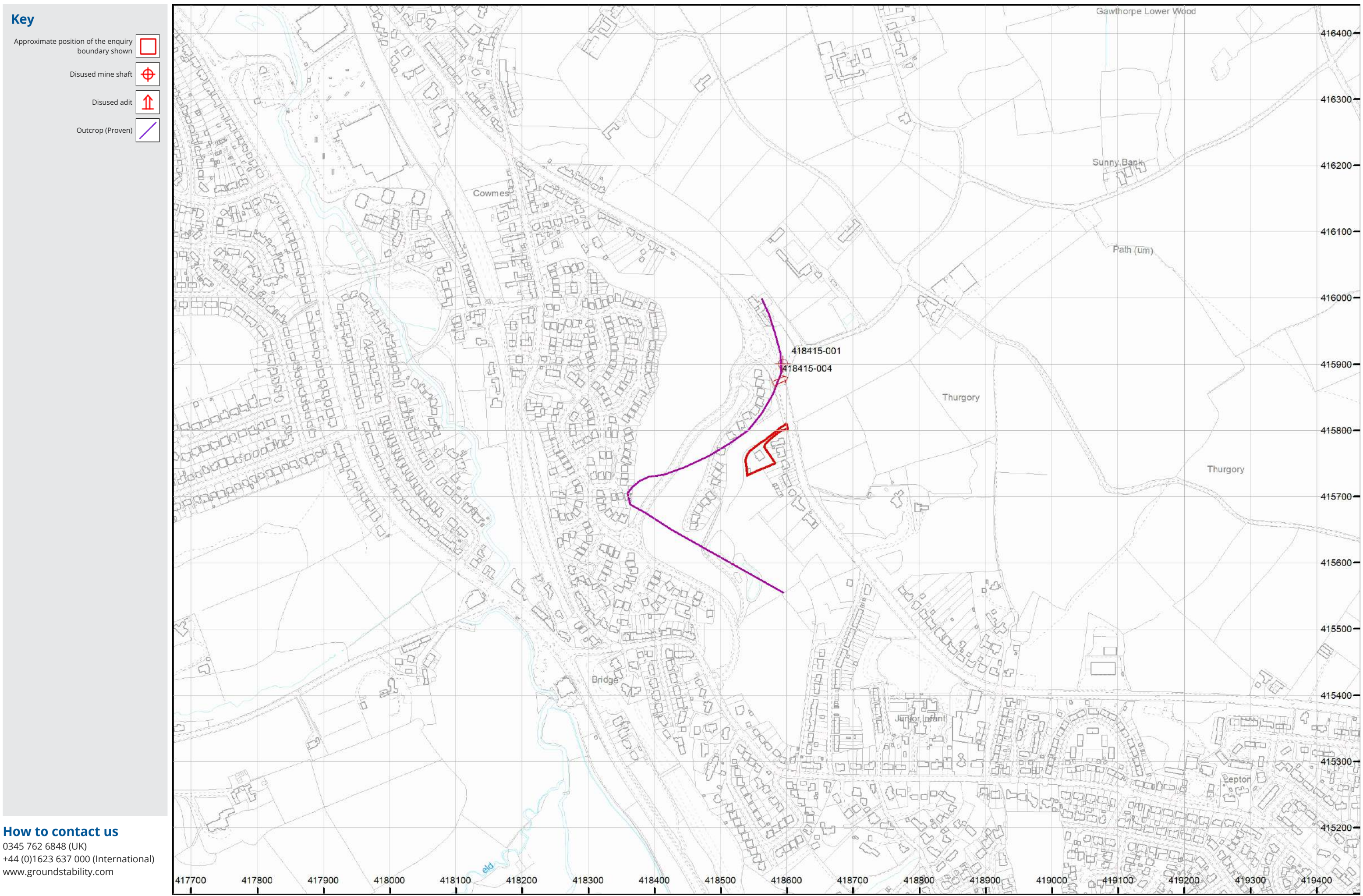
Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.





Eastwood

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0114 255 4554
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