

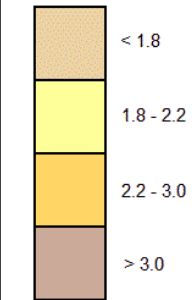


General

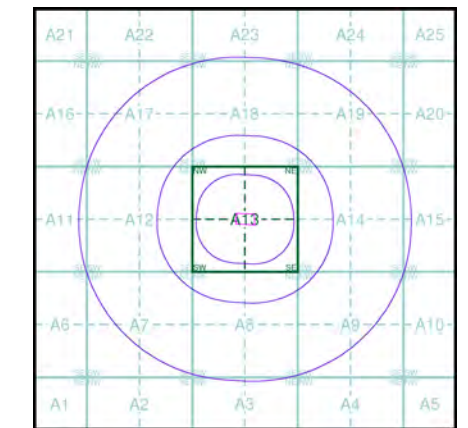
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

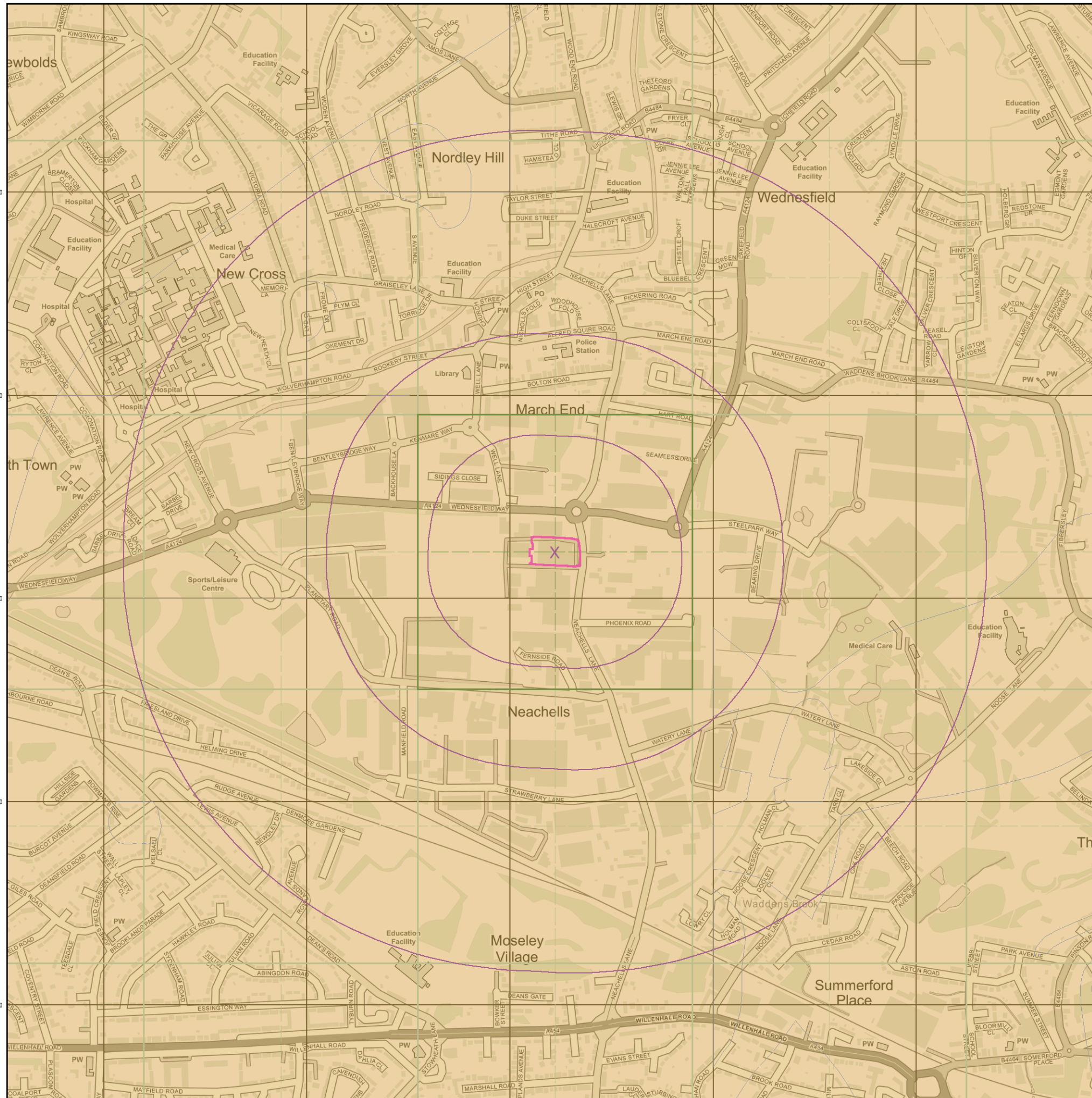
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

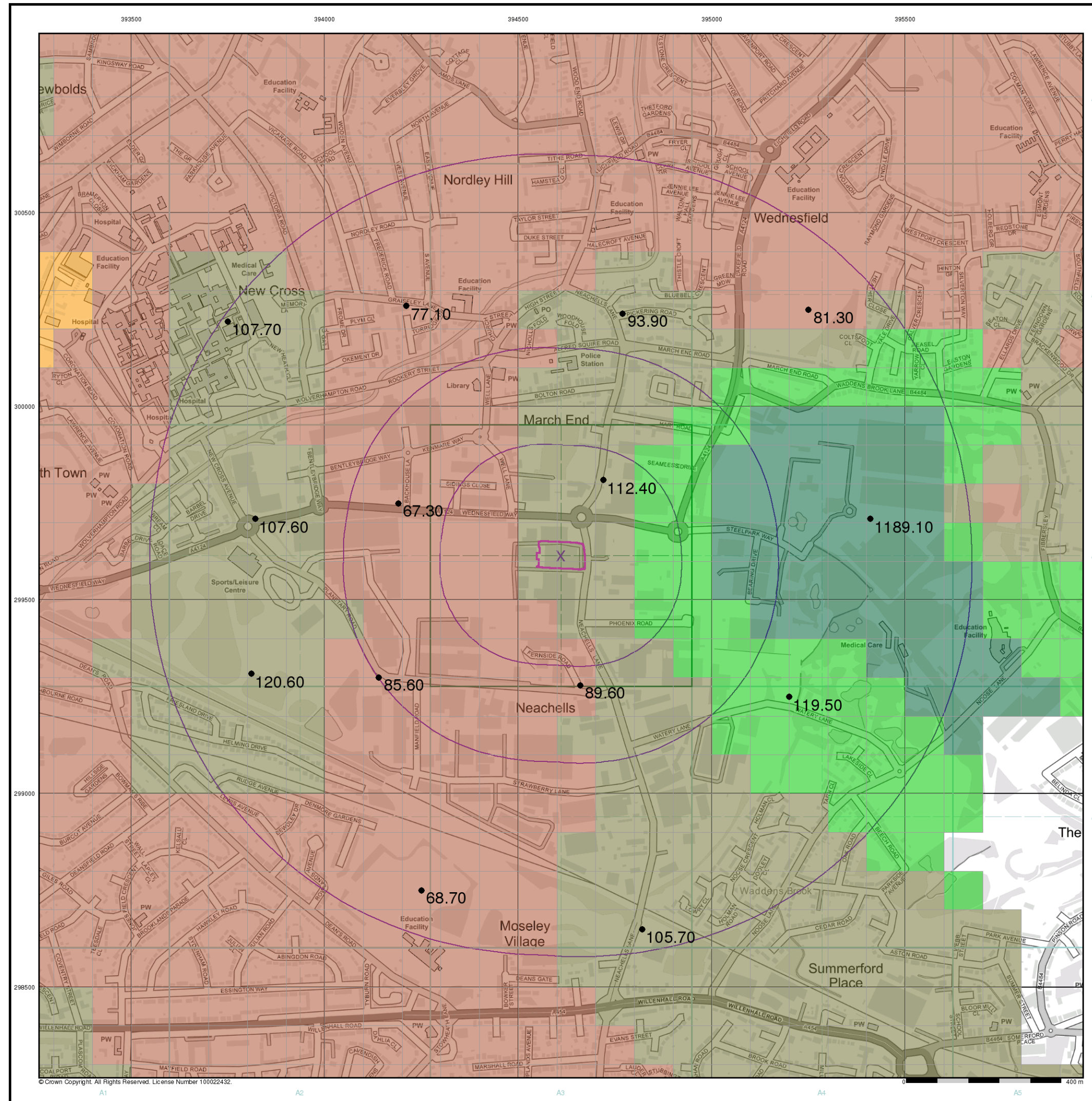
Site Details

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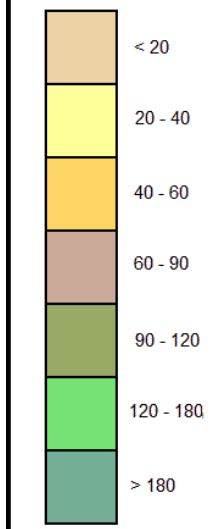
General

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

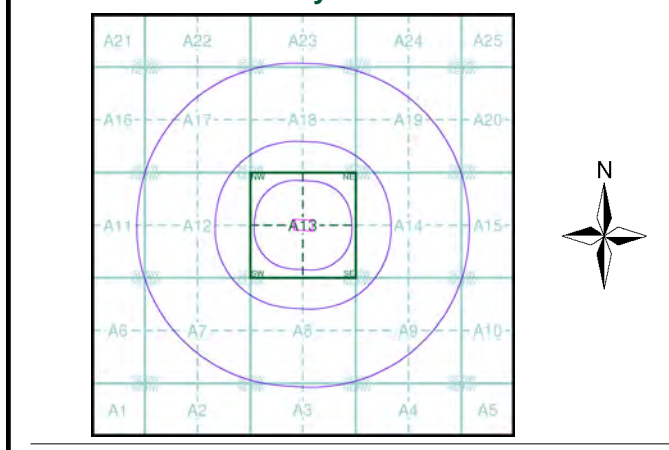
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg



Urban Soil Chemistry Chromium - Slice A



Order Details

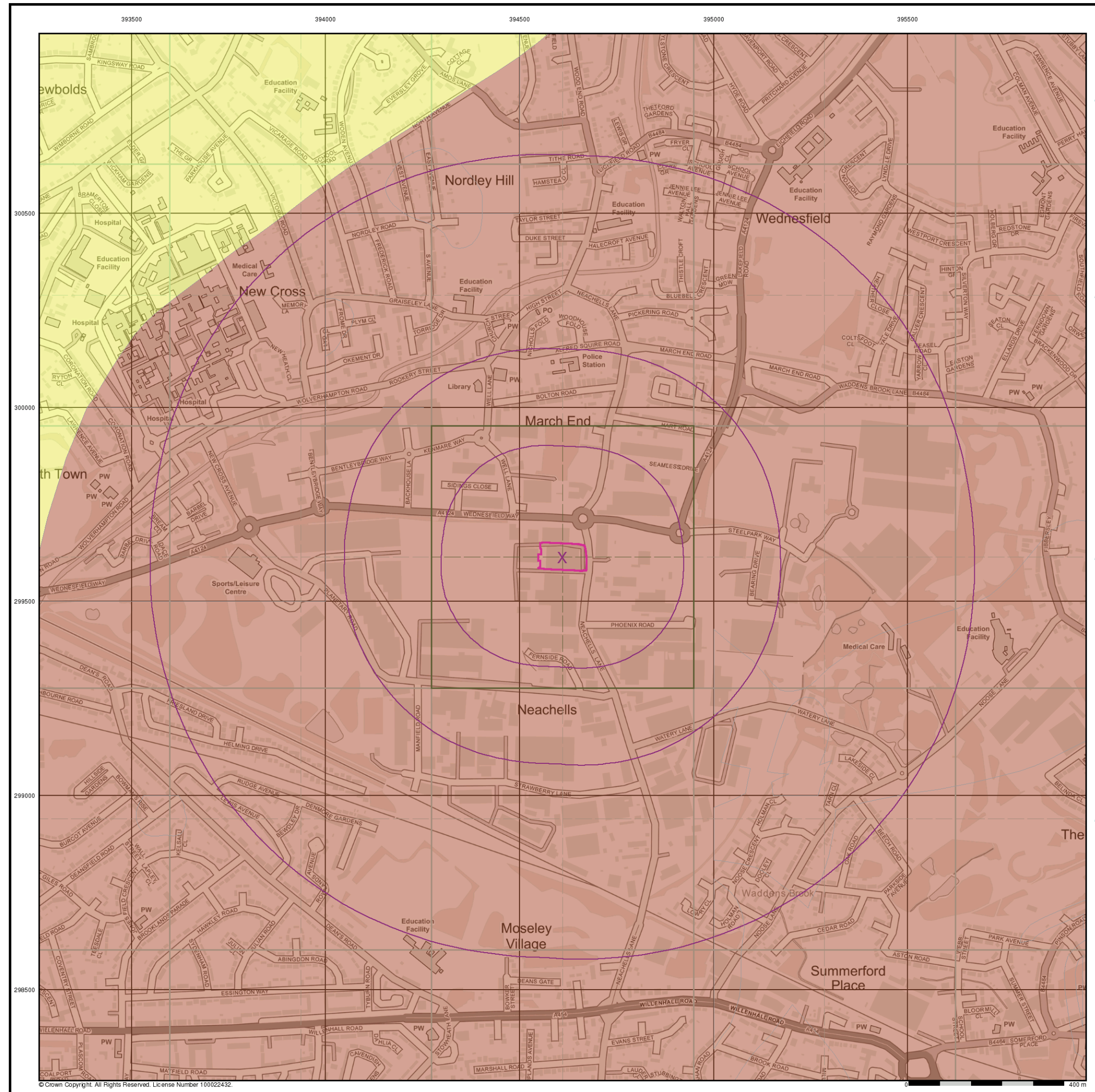
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

Site Details

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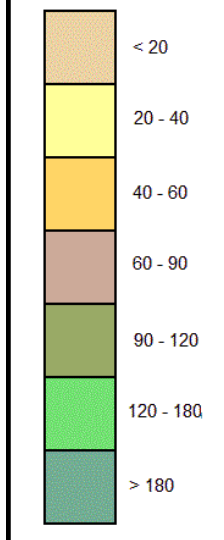


General

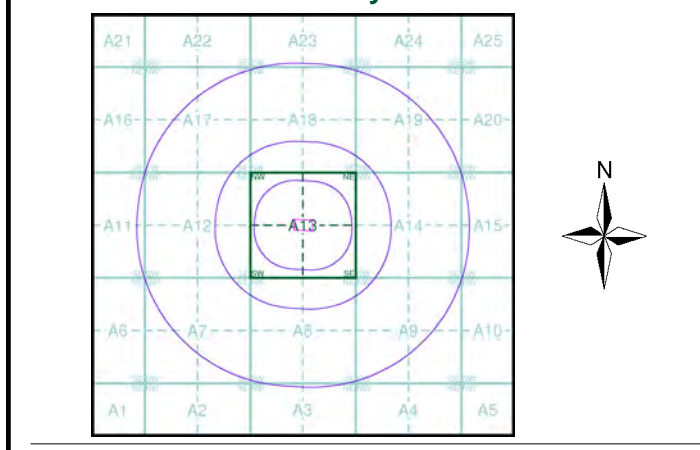
- Specified Site
- Specified Buffer(s)
- x Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

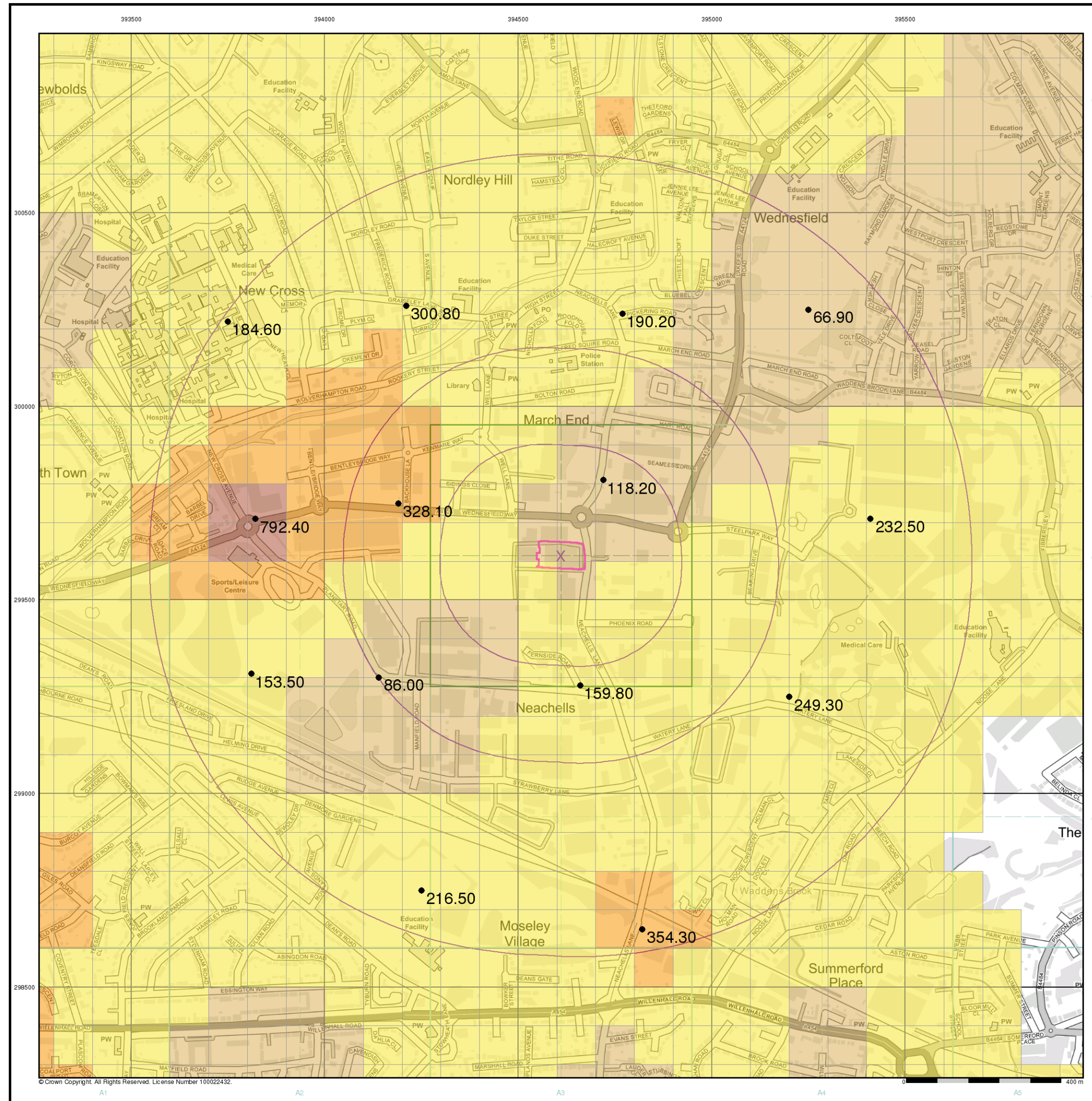


Order Details

Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

Site Details

Proposed development, Satellite Ind. Park,
 WOLVERHAMPTON, WV11 3QG



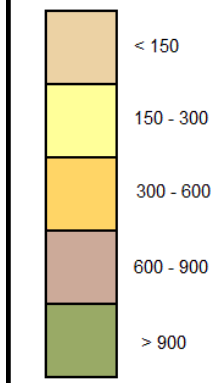
General

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

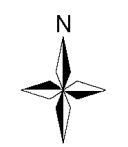
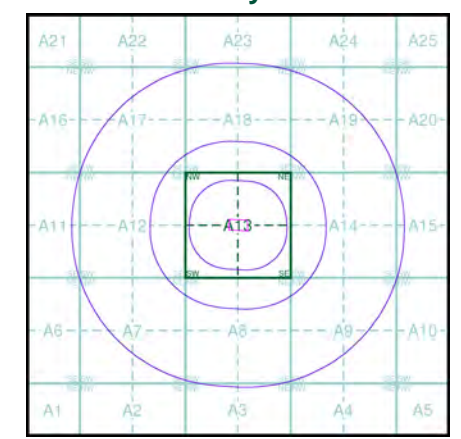
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg



Urban Soil Chemistry Lead - Slice A



Order Details

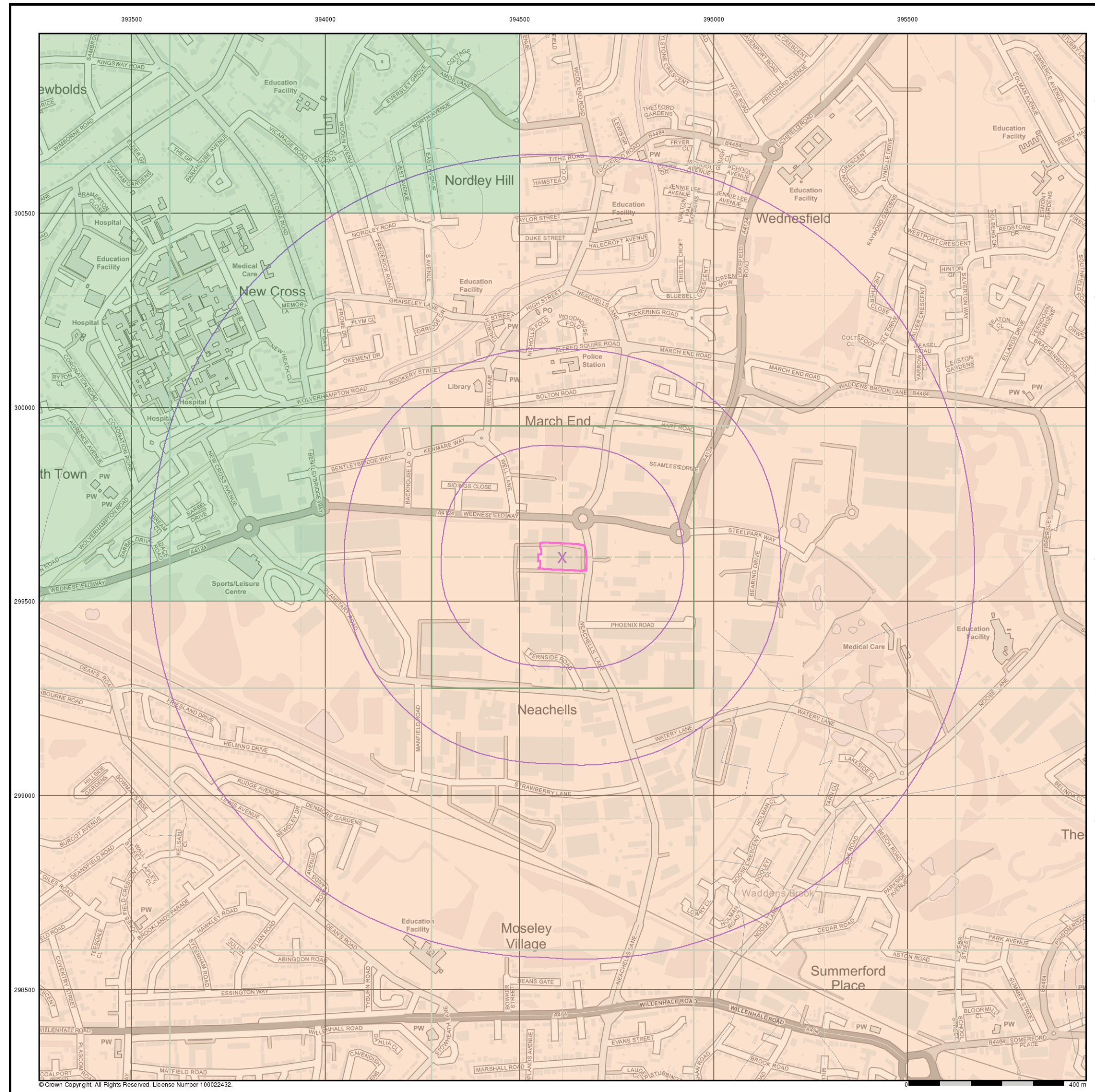
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

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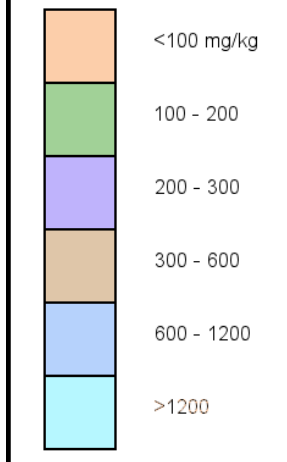


General

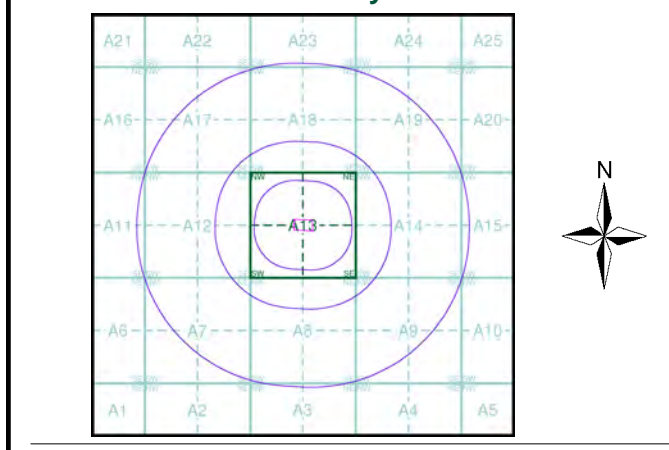
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

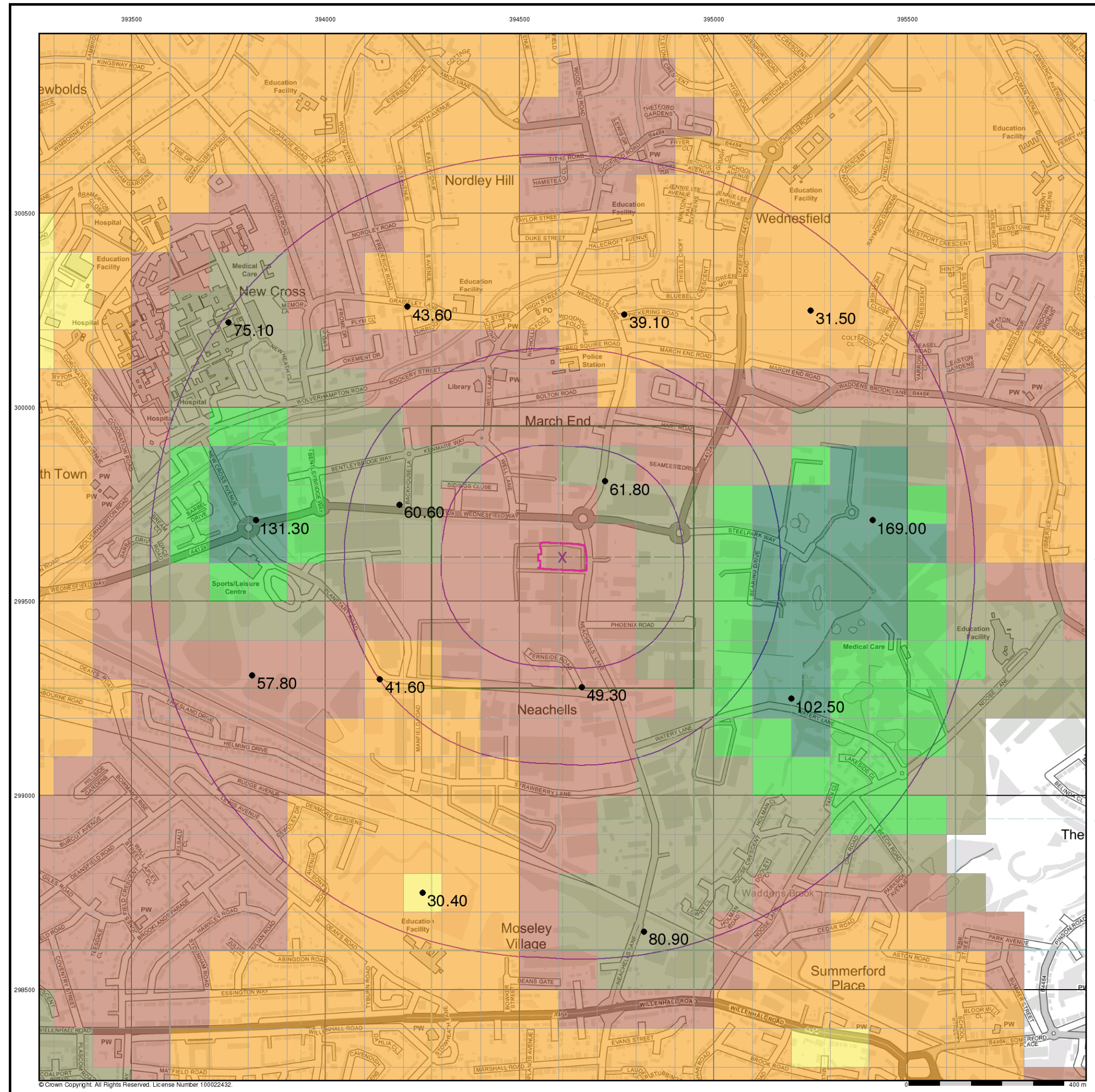
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

Site Details

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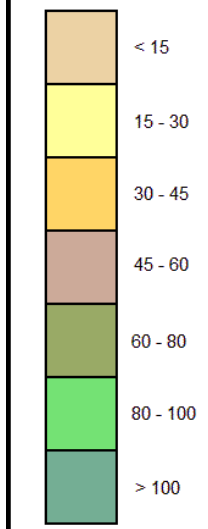
General

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

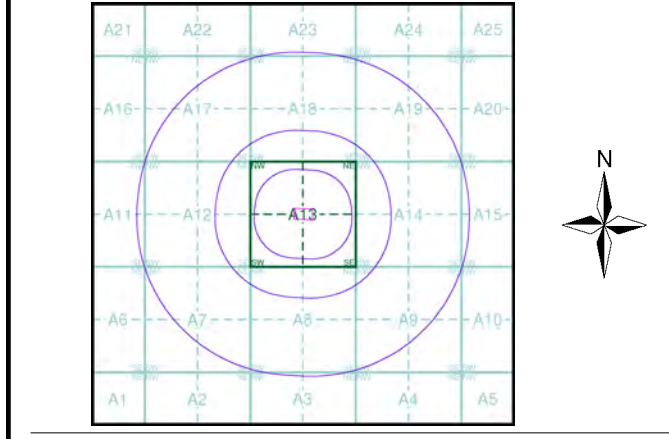
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg



Urban Soil Chemistry Nickel - Slice A



Order Details

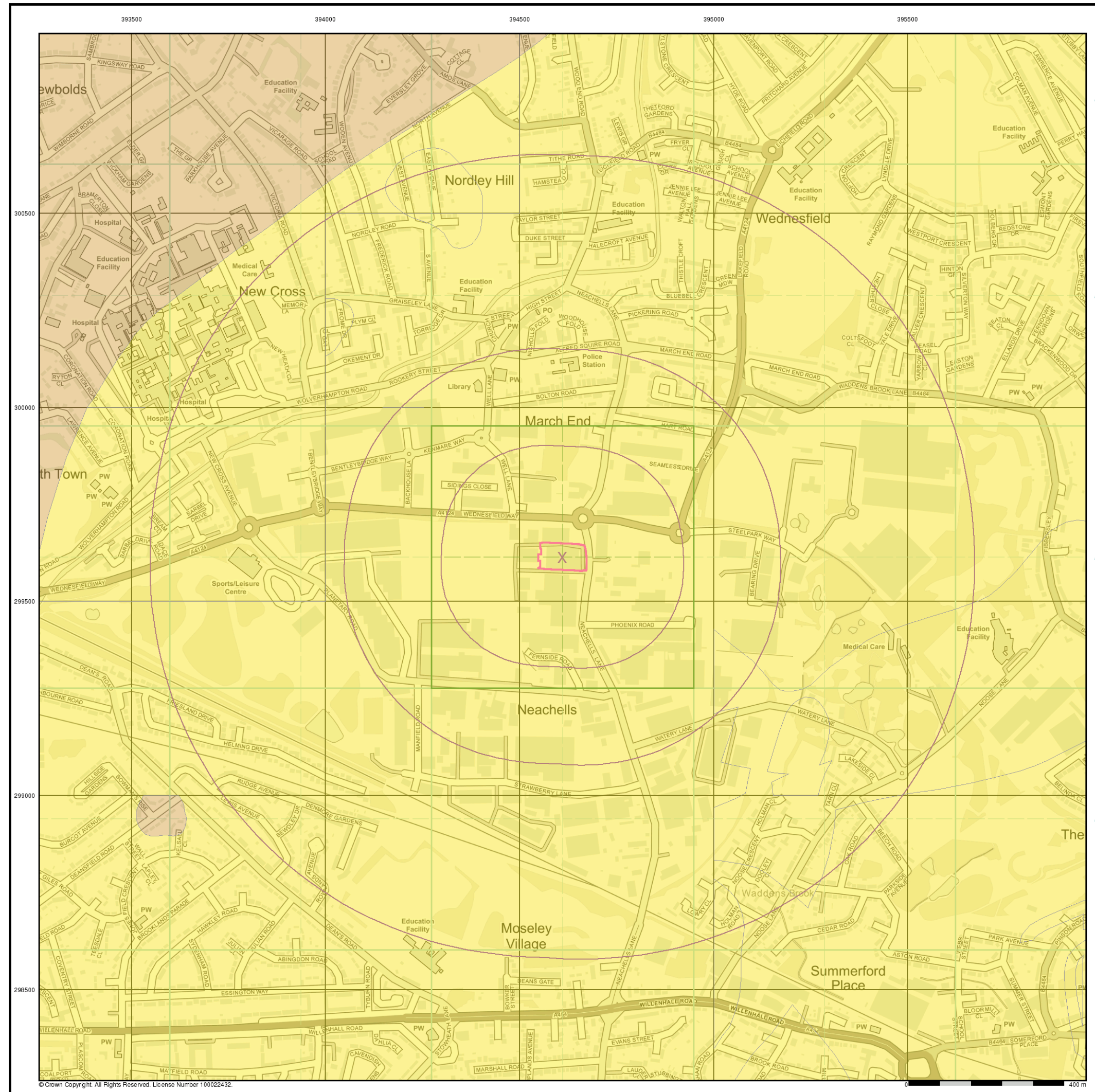
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

Site Details

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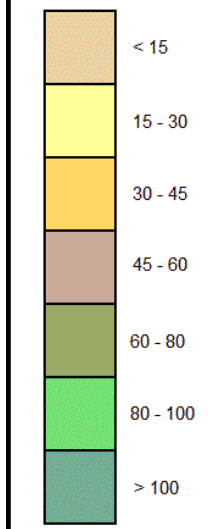


General

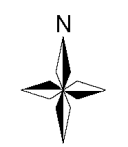
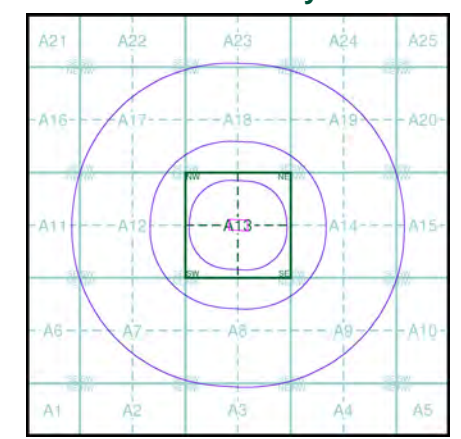
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

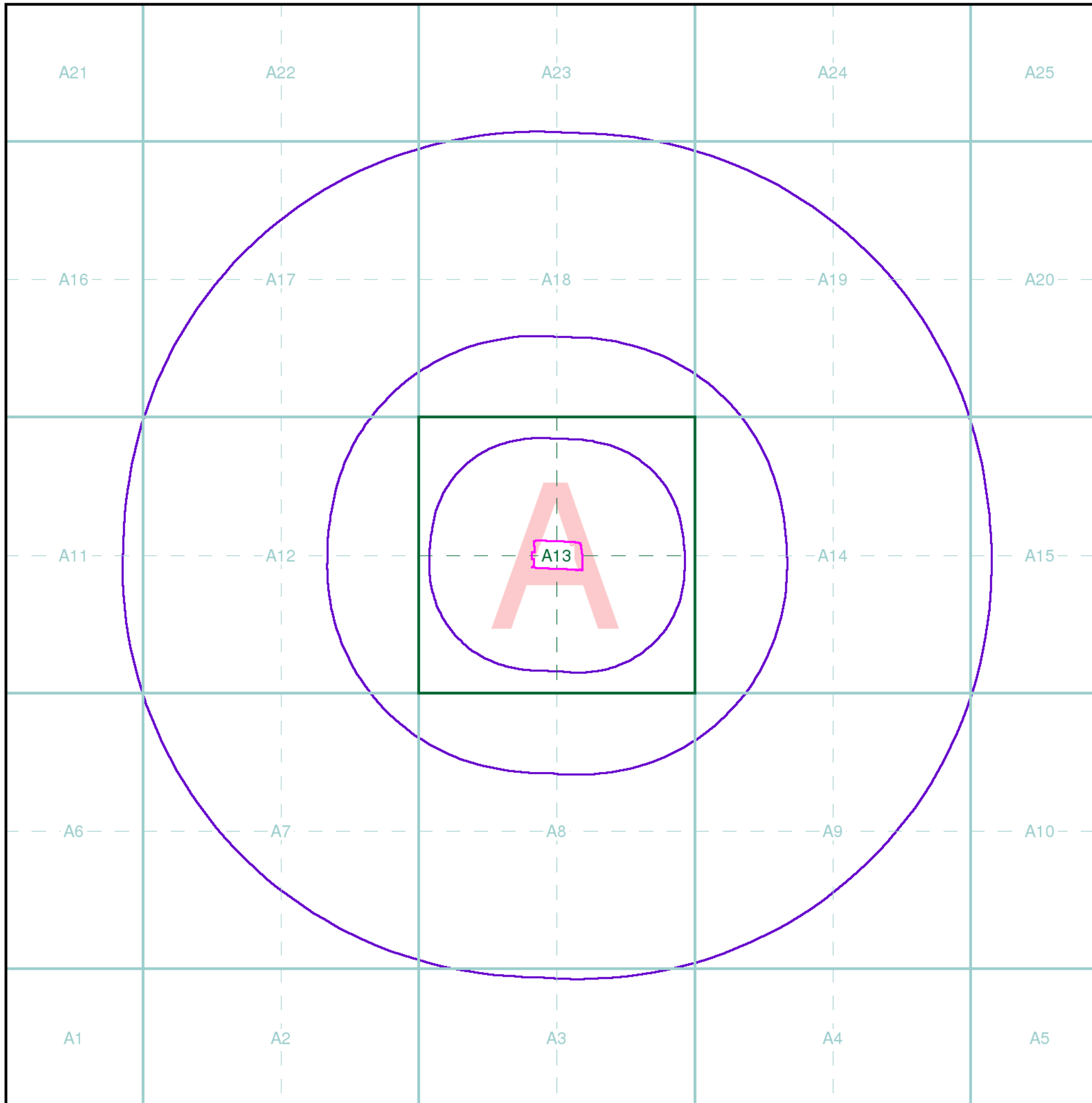
Order Details: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search buffer (m): 1000

Site Details

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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

Mr D McGrath, Arc Environmental Ltd, Unit 1, Elliot Court, St John's Road, Meadowfield, Durham, DH7 8PN

Order Details

Order Number: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299620
 Site Area (Ha): 0.81
 Search Buffer (m): 1000

Site Details

Proposed development, Satellite Ind. Park, WOLVERHAMPTON, WV11 3QG




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




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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 |
|---|----------|---------------------------|--------------------|-------------------------|
|  | MGR | Made Ground (Undivided) | Artificial Deposit | Not Supplied - Holocene |
|  | WMGR | Infilled Ground | Artificial Deposit | Not Supplied - Holocene |
|  | WGR | Worked Ground (Undivided) | Void | Not Supplied - Holocene |

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

Superficial Geology

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|----------|-----------------------------------|-----------------------------|--------------------------|
|  | ALV | Alluvium | Clay, Silt, Sand and Gravel | Not Supplied - Holocene |
|  | TILLD | Till, Devensian | Diamicton | Not Supplied - Devensian |
|  | GFDUD | Glaciofluvial Deposits, Devensian | Sand and Gravel | Not Supplied - Devensian |

Bedrock and Faults

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|----------|---|---|----------------------------|
|  | CHES | Chester Formation | Sandstone and Conglomerate, Interbedded | Not Supplied - Olenekian |
|  | CLEB | Clent Formation and Enville Formation (Undifferentiated) | Mudstone and Sandstone | Not Supplied - Westphalian |
|  | PMCM | Pennine Middle Coal Measures Formation | Mudstone, Siltstone and 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 |
|  | PLMC | Pennine Lower Coal Measures Formation and Pennine Middle Coal Measures Formation (Undifferentiated) | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|  | NMCR | New Mine Coal Rock | Sandstone | Not Supplied - Westphalian |
|  | UICW | Unnamed Igneous Intrusion, Westphalian | Microgabbro | Not Supplied - Westphalian |
|  | | Rock Segments | | |



Geology 1:50,000 Maps

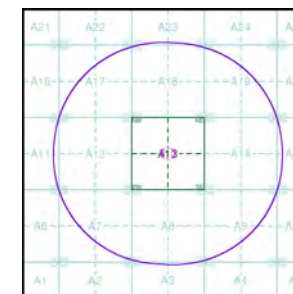
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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: | 153 |
| Map Name: | Wolverhampton |
| Map Date: | 2001 |
| 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



Order Details:

| | |
|--------------------------|----------------|
| Order Number: | 294968434_1_1 |
| Customer Reference: | 22-003 |
| National Grid Reference: | 394610, 299610 |
| Slice: | A |
| Site Area (Ha): | 0.81 |
| Search Buffer (m): | 1000 |

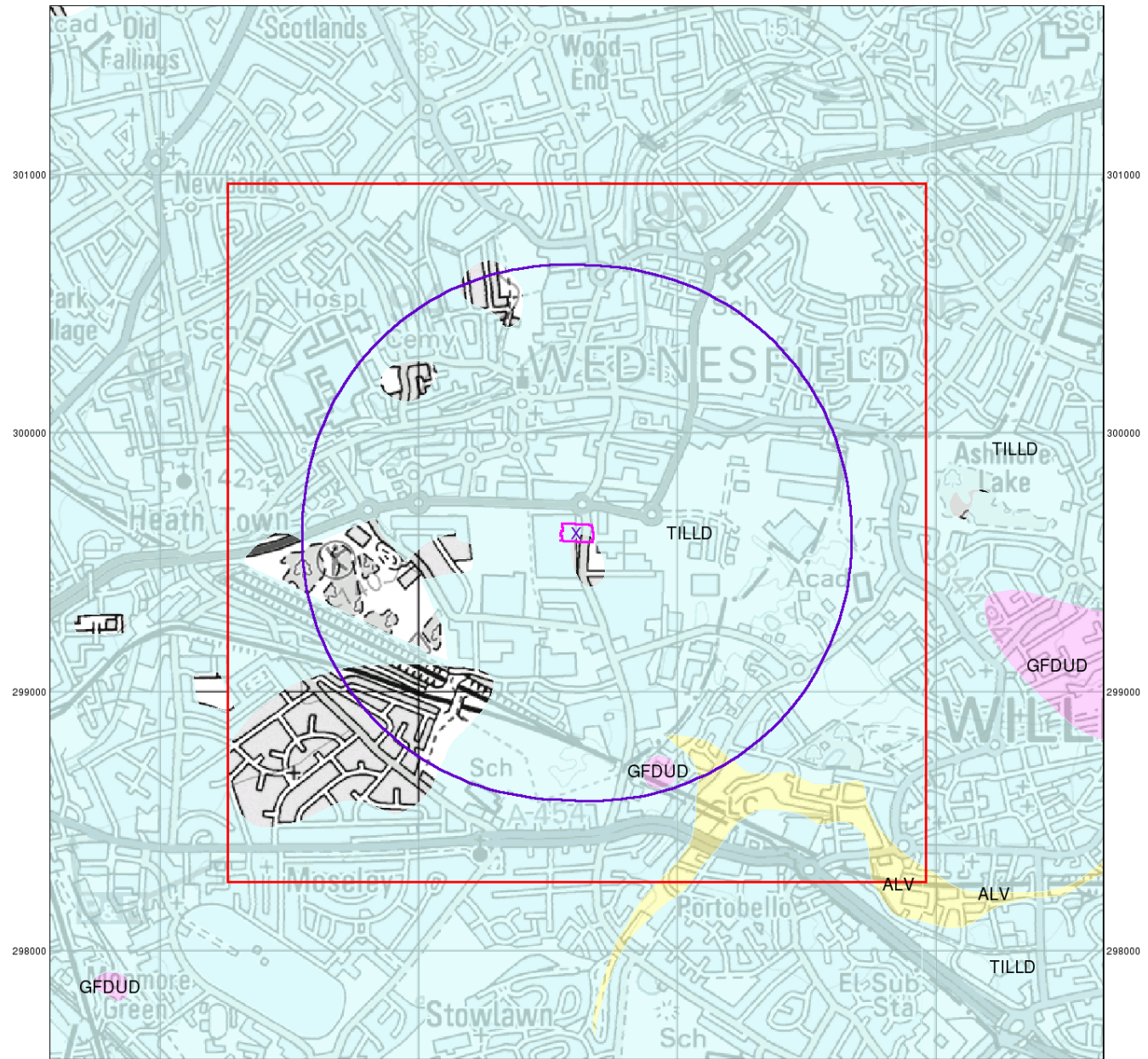
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393000 394000 395000 396000



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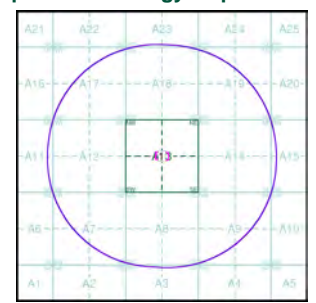
Superficial Geology

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



Order Details:

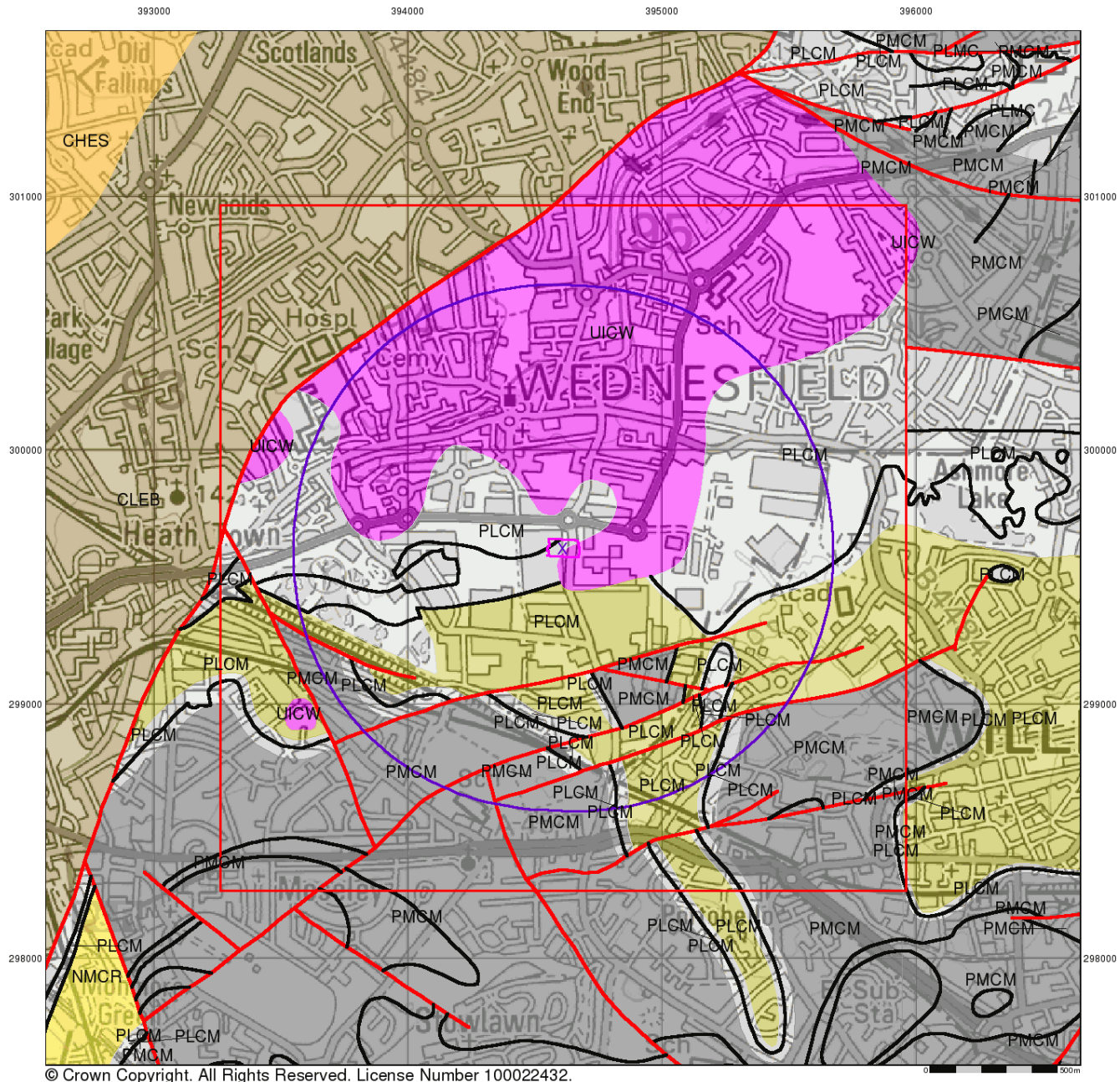
Order Number: 294968434_1_1
 Customer Reference: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
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Bedrock and Faults

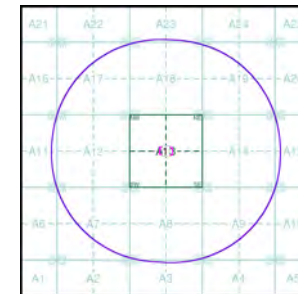
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



Order Details:

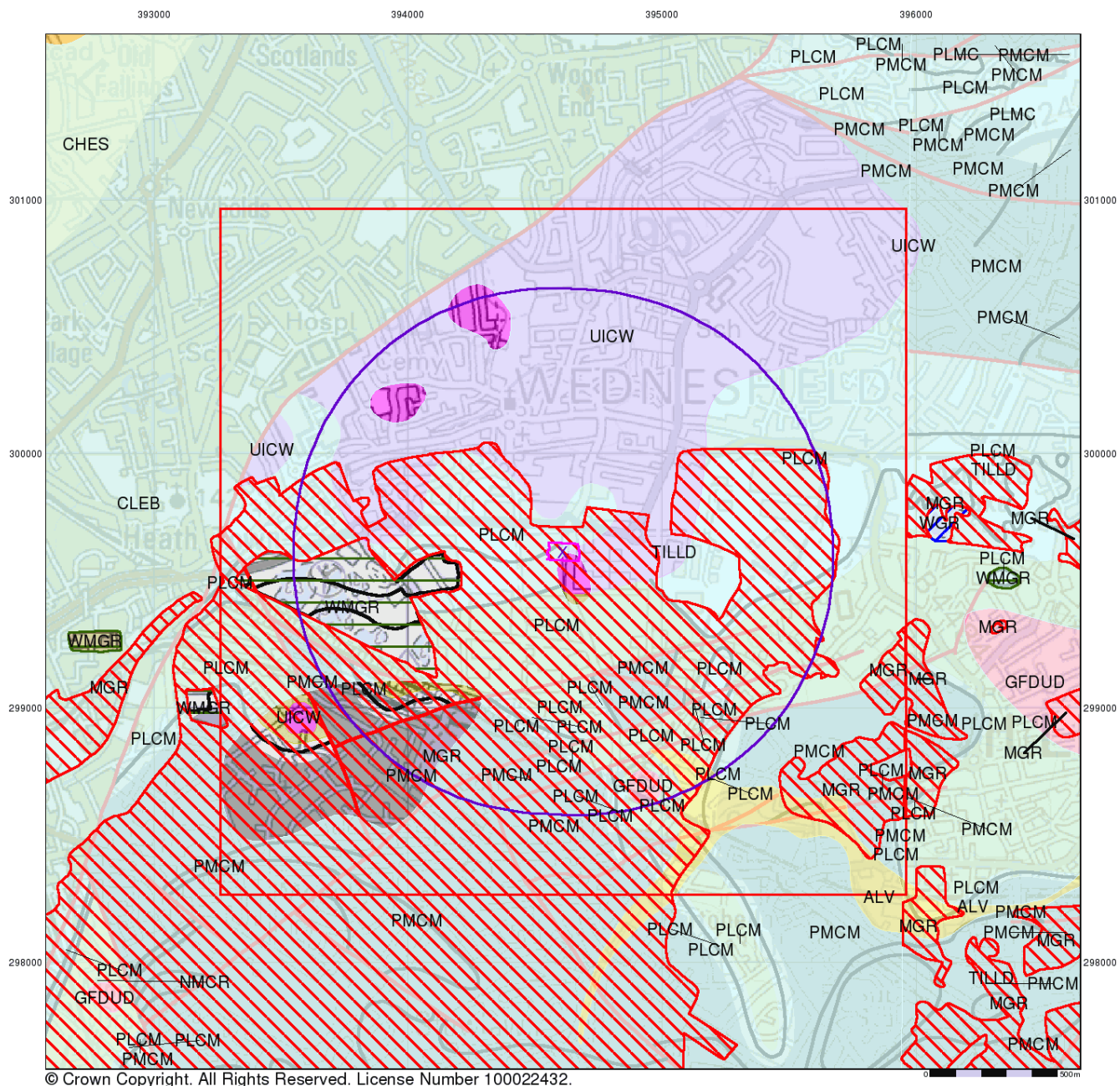
Order Number: 294968434_1_1
 Customer Reference: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search Buffer (m): 1000

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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.

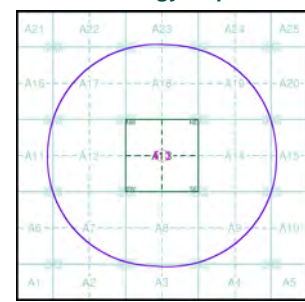
Additional Information

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: 294968434_1_1
 Customer Reference: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search Buffer (m): 1000

Site Details:

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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. **Bridle Road** **P** **Pump**
E.P. **Electricity Pylon** **S.P.** **Signal Post**
F.B. **Foot Bridge** **Sl.** **Sluice**
F.P. **Foot Path** **Sp.** **Spring**
G.P. **Guide Post or Board** **T.C.B.** **Telephone Call Box**
M.S. **Mile Stone** **Tr.** **Trough**
M.P. M.R. **Mooring Post or Ring** **W** **Well**

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH **Beer House** **P** **Pillar, Pole or Post**
BP, BS **Boundary Post or Stone** **PO** **Post Office**
Cn, C **Capstan, Crane** **PC** **Public Convenience**
Chy **Chimney** **PH** **Public House**
D Fn **Drinking Fountain** **Pp** **Pump**
EI P **Electricity Pillar or Post** **SB, S Br** **Signal Box or Bridge**
FAP **Fire Alarm Pillar** **SP, SL** **Signal Post or Light**
FB **Foot Bridge** **Spr** **Spring**
GP **Guide Post** **Tk** **Tank or Track**
H **Hydrant or Hydraulic** **TCB** **Telephone Call Box**
LC **Level Crossing** **TCP** **Telephone Call Post**
MH **Manhole** **Tr** **Trough**
MP **Mile Post or Mooring Post** **Wr Pt, Wr T** **Water Point, Water Tap**
MS **Mile Stone** **W** **Well**
NTL **Normal Tidal Limit** **Wd Pp** **Wind Pump**

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

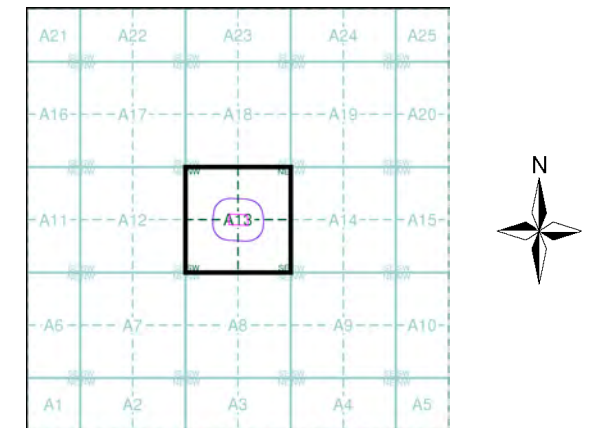
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m **Bench Mark** **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks **Barracks** **P** **Pillar, Pole or Post**
Bty **Battery** **PO** **Post Office**
Cemy **Cemetery** **PC** **Public Convenience**
Chy **Chimney** **Pp** **Pump**
Cis **Cistern** **Ppg Sta** **Pumping Station**
Dismtd Rly **Dismantled Railway** **PW** **Place of Worship**
EI Gen Sta **Electricity Generating Station** **Sewage Ppg Sta** **Sewage Pumping Station**
EI P **Electricity Pole, Pillar** **SB, S Br** **Signal Box or Bridge**
EI Sub Sta **Electricity Sub Station** **SP, SL** **Signal Post or Light**
FB **Filter Bed** **Spr** **Spring**
Fn / D Fn **Fountain / Drinking Ftn.** **Tk** **Tank or Track**
Gas Gov **Gas Valve Compound** **Tr** **Trough**
GVC **Gas Governor** **Wd Pp** **Wind Pump**
GP **Guide Post** **Wr Pt, Wr T** **Water Point, Water Tap**
MH **Manhole** **Wks** **Works (building or area)**
MP, MS **Mile Post or Mile Stone** **W** **Well**



Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|--------------------------------|---------|-------------|----|
| Staffordshire | 1:2,500 | 1889 | 2 |
| Staffordshire | 1:2,500 | 1902 | 3 |
| Staffordshire | 1:2,500 | 1919 | 4 |
| Staffordshire | 1:2,500 | 1938 | 5 |
| Ordnance Survey Plan | 1:1,250 | 1947 - 1954 | 6 |
| Ordnance Survey Plan | 1:1,250 | 1953 - 1969 | 7 |
| Ordnance Survey Plan | 1:2,500 | 1954 | 8 |
| Ordnance Survey Plan | 1:1,250 | 1968 | 9 |
| Additional SIMs | 1:1,250 | 1969 - 1977 | 10 |
| Additional SIMs | 1:1,250 | 1987 - 1989 | 11 |
| Large-Scale National Grid Data | 1:1,250 | 1992 | 12 |
| Large-Scale National Grid Data | 1:1,250 | 1993 | 13 |
| Large-Scale National Grid Data | 1:1,250 | 1996 | 14 |
| Large-Scale National Grid Data | 1:1,250 | 1996 | 15 |
| Historical Aerial Photography | 1:2,500 | 2000 | 16 |

Historical Map - Segment A13



Order Details

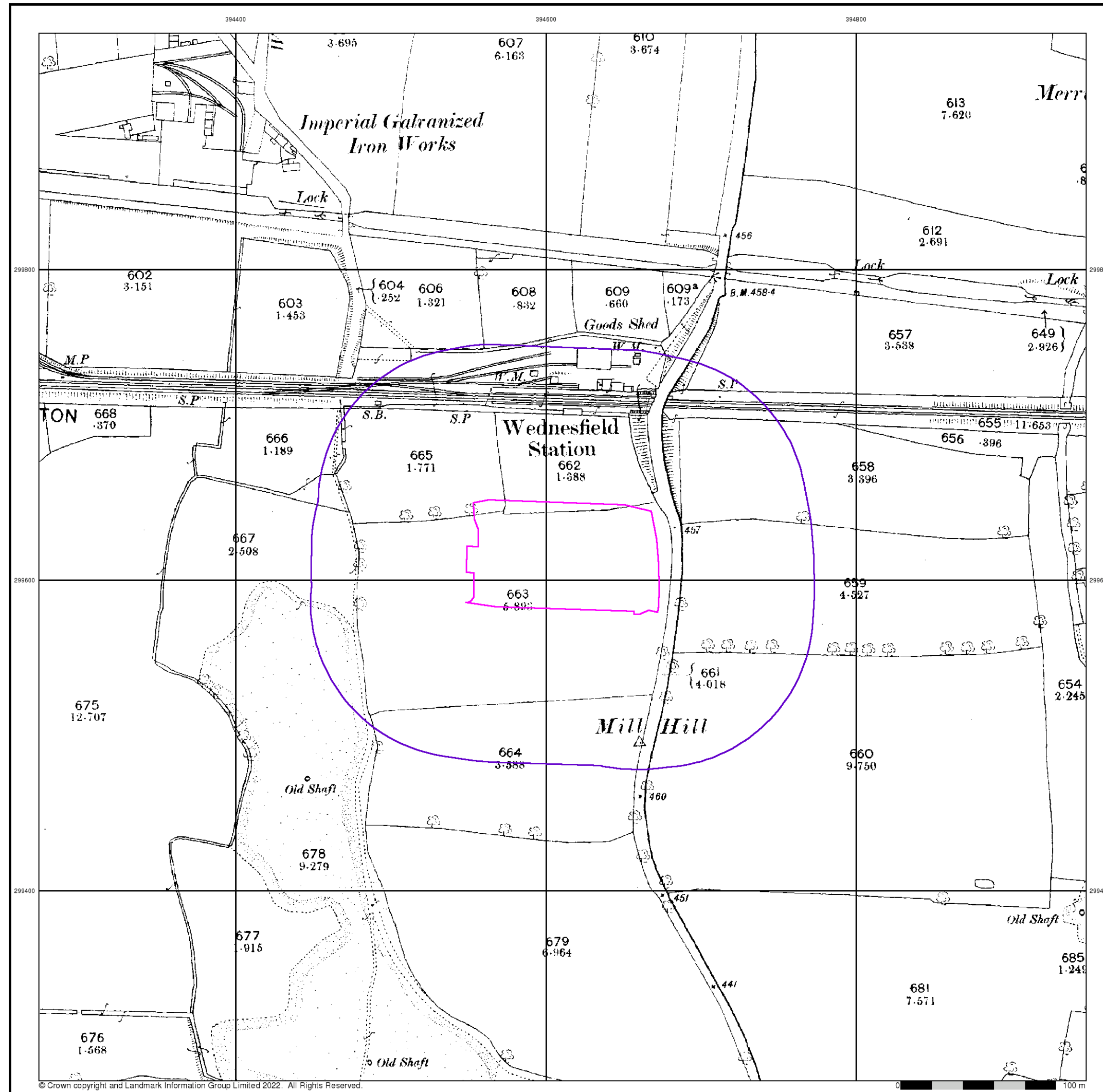
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 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search Buffer (m): 100

Site Details

Proposed development, Satellite Ind. Park,
 WOLVERHAMPTON, WV11 3QG



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



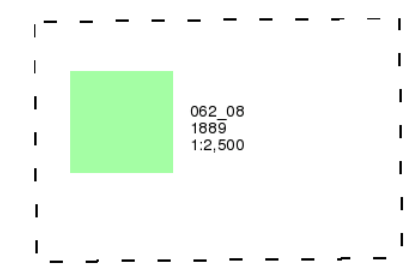
Staffordshire

Published 1889

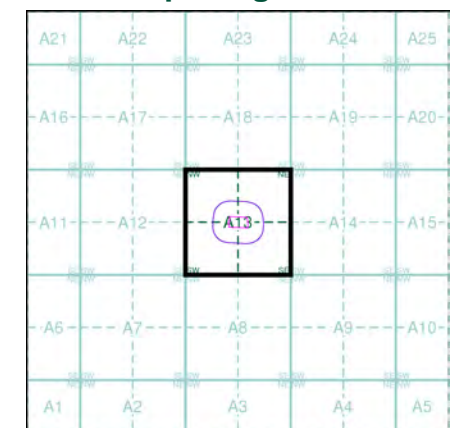
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

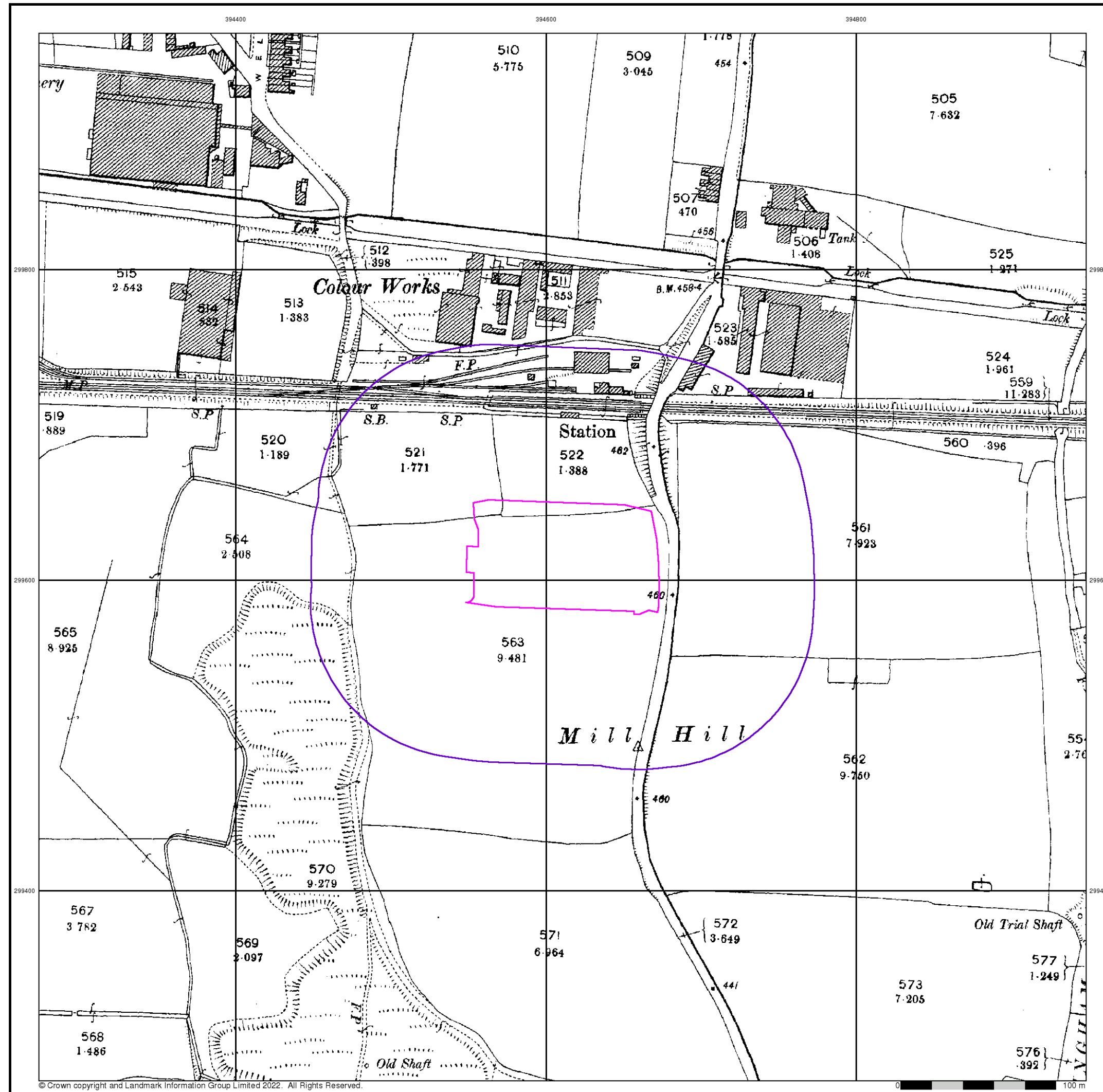
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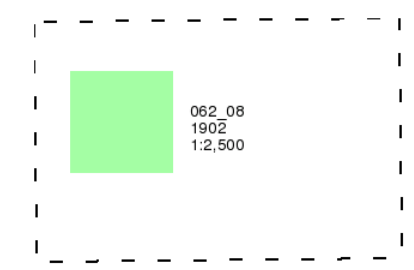
Tel: 0844 844 9952
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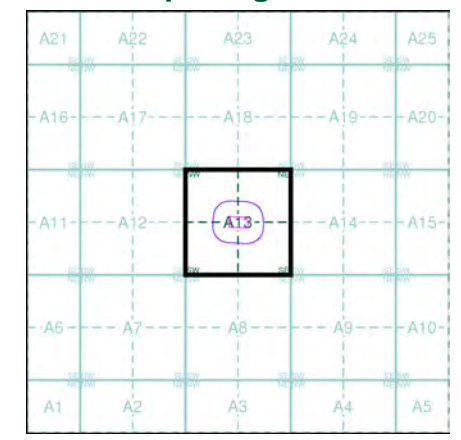
Staffordshire
Published 1902
Source map scale - 1:2,500

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

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