

Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Present Day - Present Day
	WGR	Worked Ground (Undivided)	Void	Present Day - Present Day
	WMGR	Infilled Ground	Artificial Deposit	Present Day - Present Day

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay and Silt	Flandrian - Flandrian
	GFDMP	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	Sand and Gravel	Ipswichian - Cromerian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ACR	Ackton Rock	Sandstone	Bolsovia (Westphalian C) - Bolsovia (Westphalian C)
	GH	Glass Houghton Rock	Sandstone	Bolsovia (Westphalian C) - Bolsovia (Westphalian C)
	MXR	Mexborough Rock	Sandstone	Bolsovia (Westphalian C) - Bolsovia (Westphalian C)
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovia (Westphalian C) - Duckmantian (Westphalian B)
	OR	Oaks Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Bolsovia (Westphalian C) - Duckmantian (Westphalian B)
	WE	Woolley Edge Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	Fault			
	Rock			

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a 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.

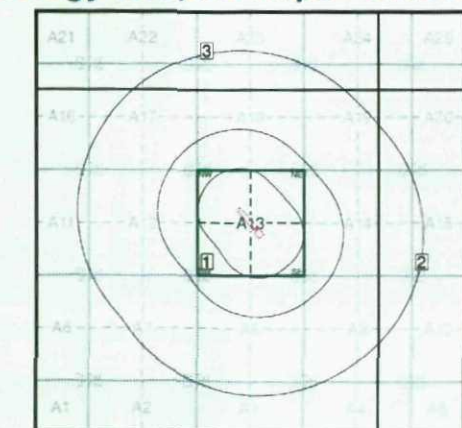
Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID: 3	Map Name: SE30NE	Map ID: 1	Map Name: SE30SE
Map Date: 2005	Map Date: 2005	Map Date: 2005	Map Date: 2005
Bedrock Geology: Available	Bedrock Geology: Available	Bedrock Geology: Available	Bedrock Geology: Available
Superficial Geology: Available	Superficial Geology: Available	Superficial Geology: Available	Superficial Geology: Available
Artificial Geology: Available	Artificial Geology: Available	Artificial Geology: Available	Artificial Geology: Available
Faults: Available	Faults: Available	Faults: Available	Faults: Available
Landslip: Not Available	Landslip: Not Available	Landslip: Not Available	Landslip: Not Available
Rock Segments: Available	Rock Segments: Available	Rock Segments: Available	Rock Segments: Available

Map ID: SE40NW	Map ID: 2	Map Name: SE40SW
Map Date: 2005	Map Date: 2005	Map Date: 2005
Bedrock Geology: Available	Bedrock Geology: Available	Bedrock Geology: Available
Superficial Geology: Available	Superficial Geology: Available	Superficial Geology: Available
Artificial Geology: Available	Artificial Geology: Available	Artificial Geology: Available
Faults: Available	Faults: Available	Faults: Available
Landslip: Not Available	Landslip: Not Available	Landslip: Not Available
Rock Segments: Available	Rock Segments: Available	Rock Segments: Available

Geology 1:10,000 Maps - Slice A



Order Details

Order Number: 38801377_1_1
Customer Ref: AC00018
National Grid Reference: 439200, 404150
Slice: A
Site Area (Ha): 0.61
Search Buffer (m): 1000

Site Details

Land and Buildings at Mitchell's Enterprise Park, Bradberry Balk Lane, Wombwell, BARNSELY, South Yorkshire, S73 8HR

Artificial Ground and Landslip

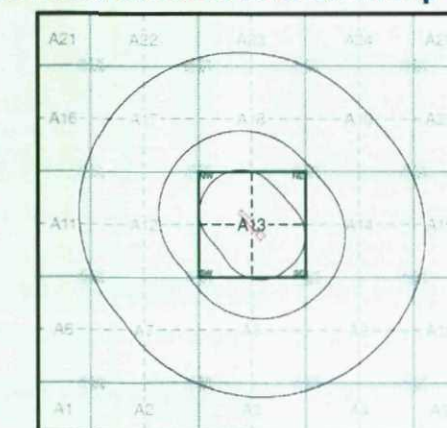
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A

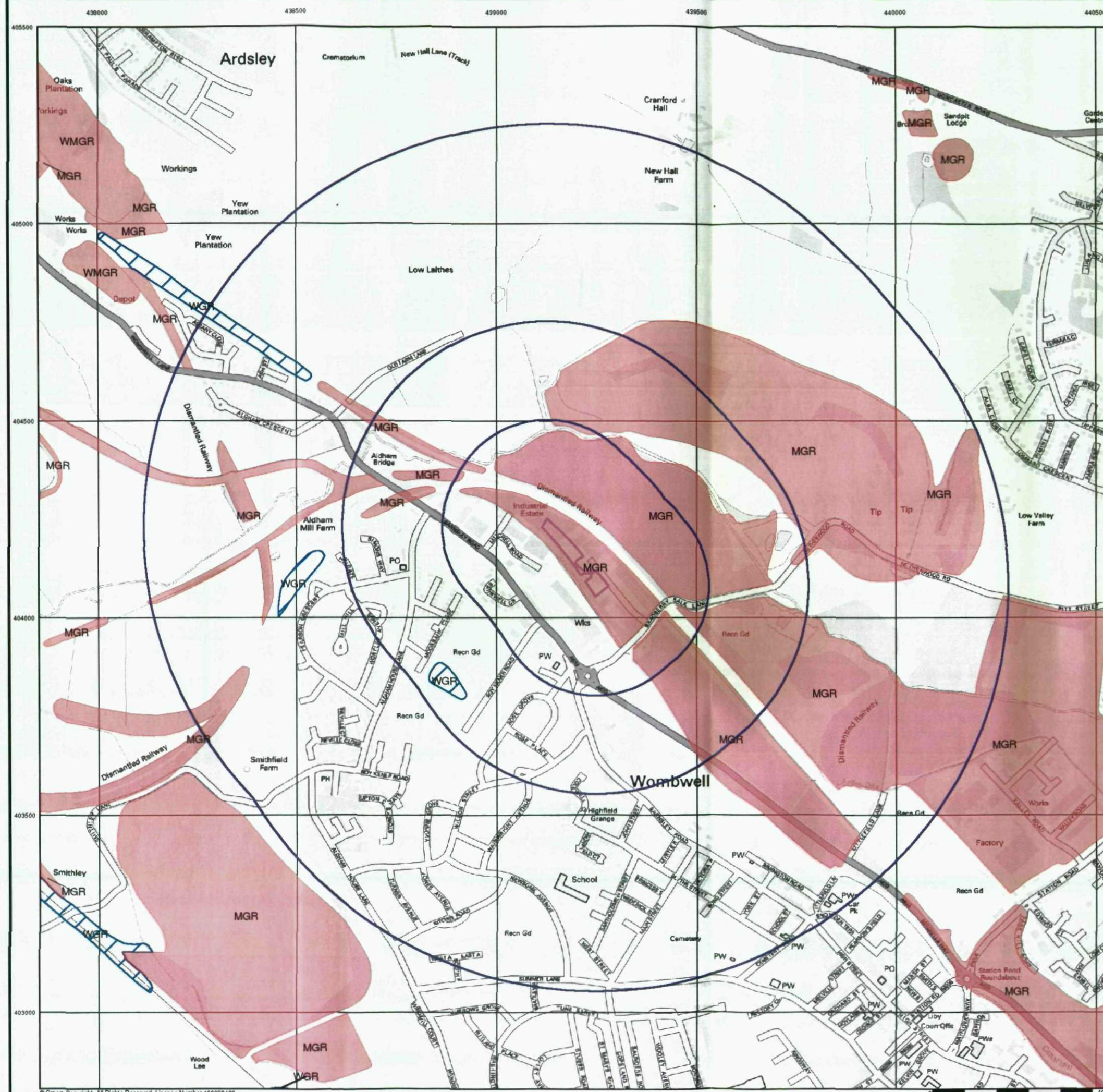


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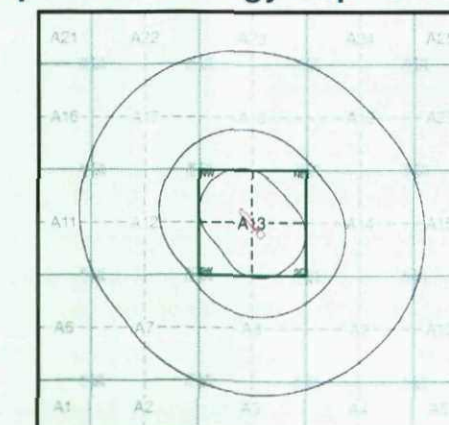
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, 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

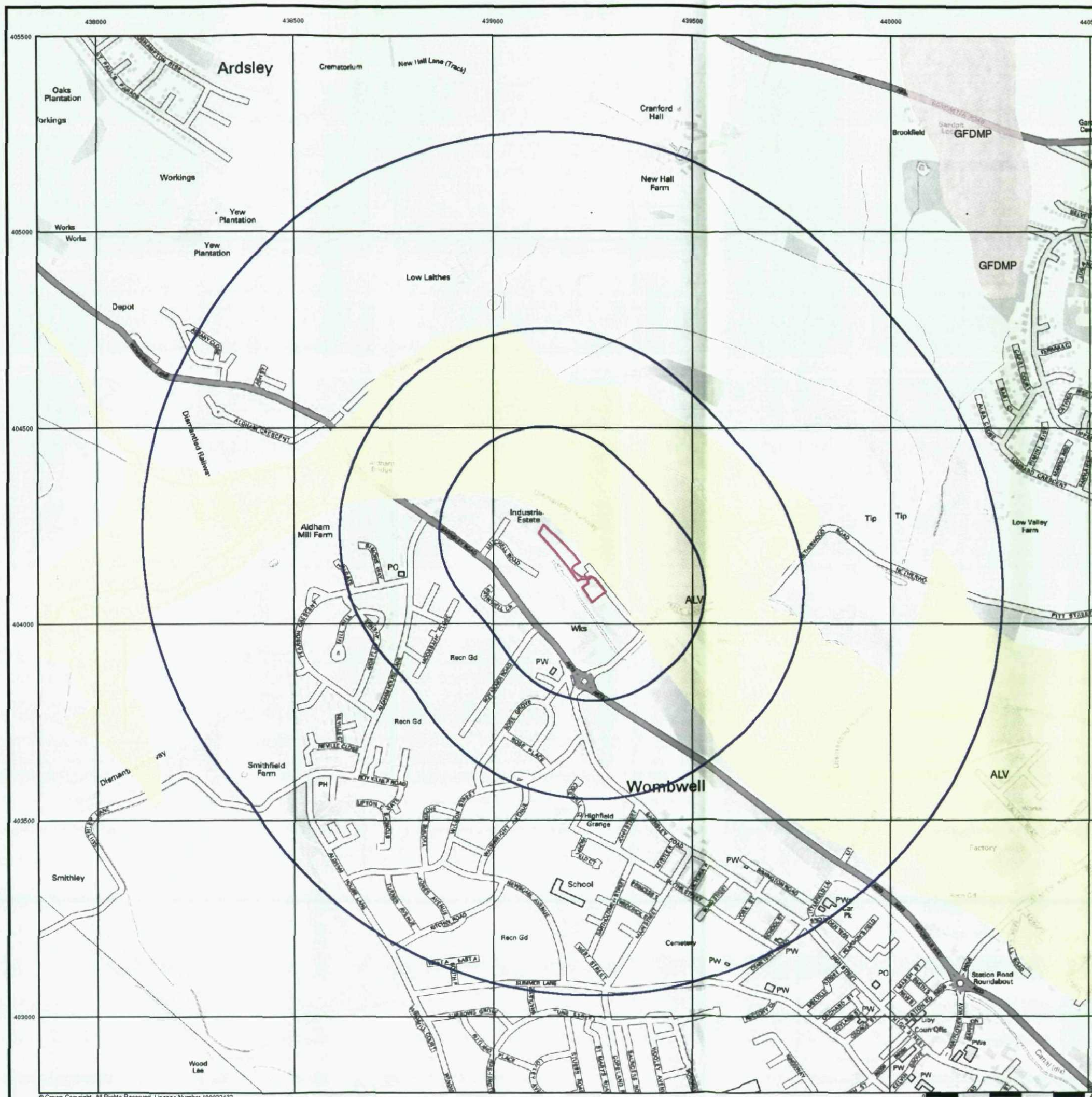


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Bedrock and Faults

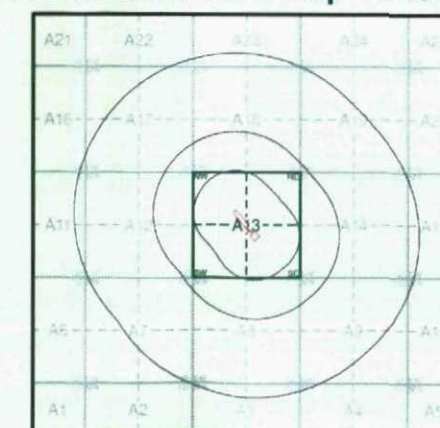
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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 and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A

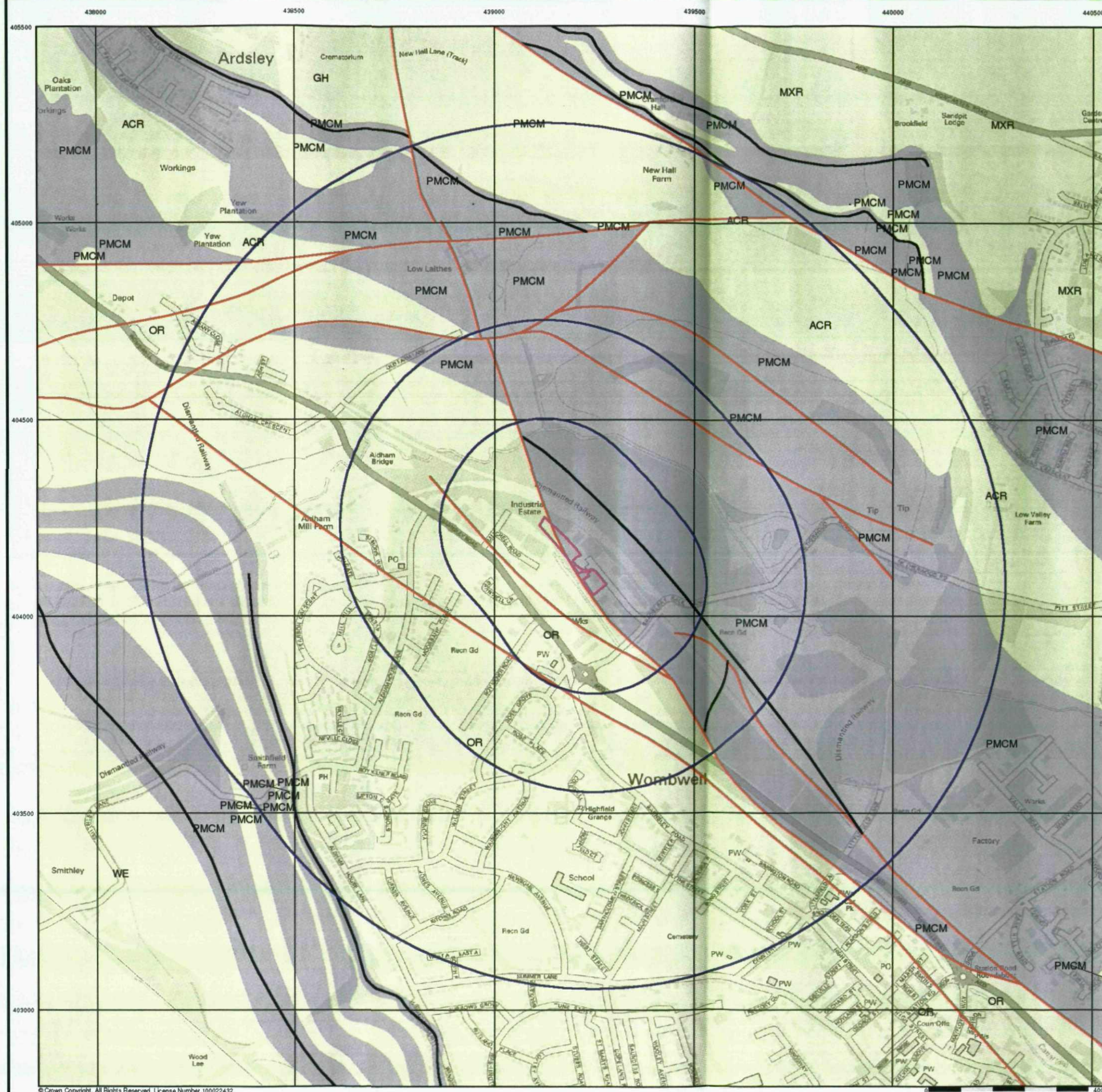


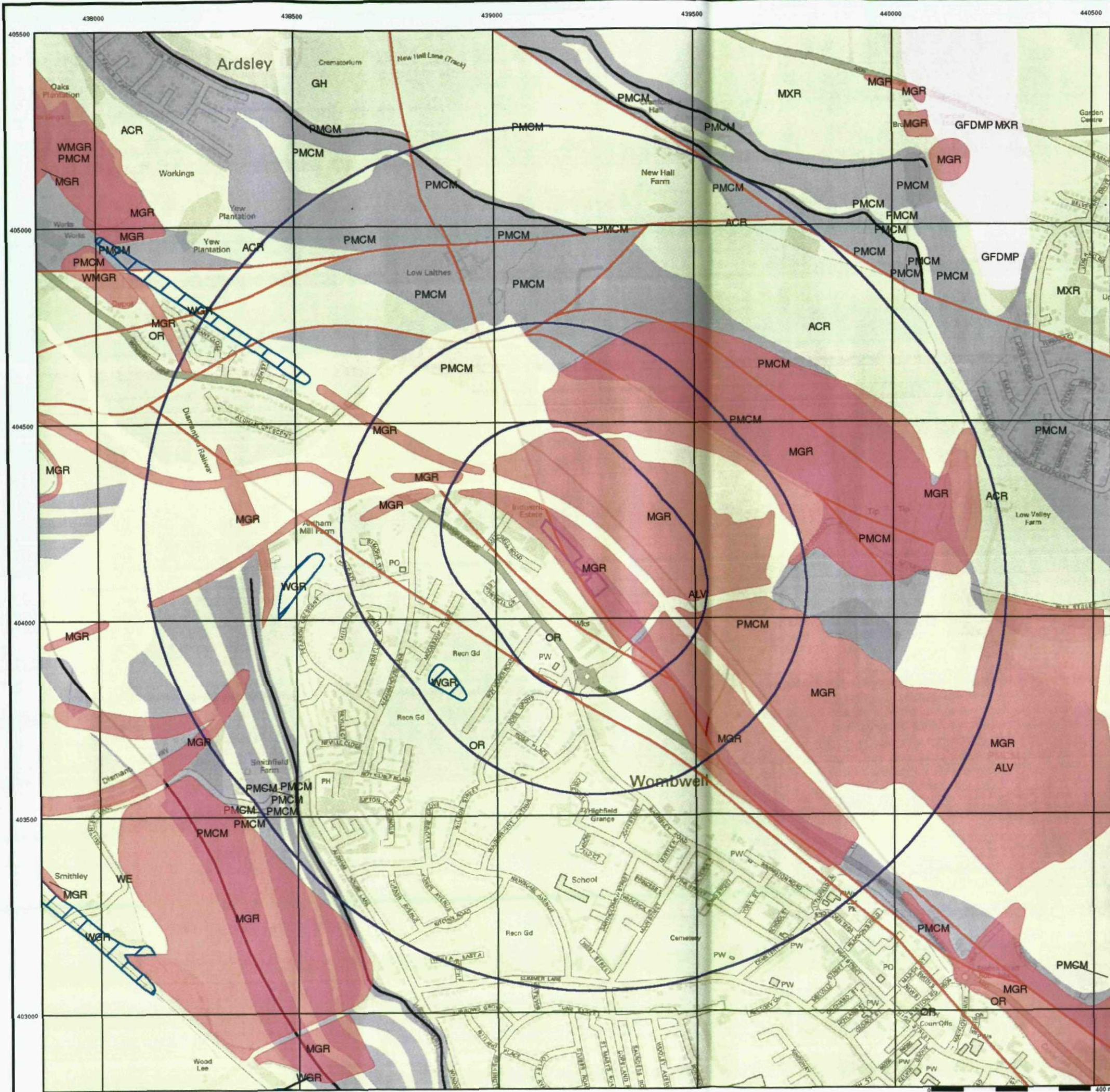
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Combined Surface Geology

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.

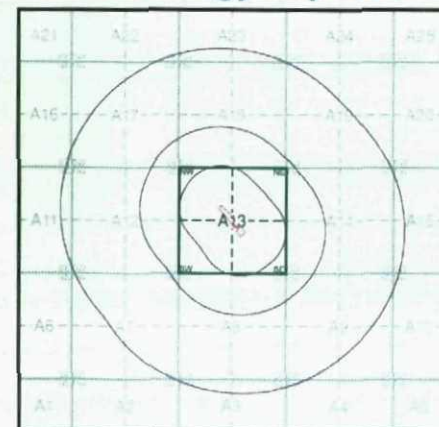
Additional Information

More information on 1:10,000 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

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Kingsley Dunham Centre
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NG12 5GG
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Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



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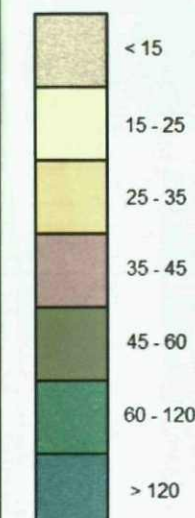
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General

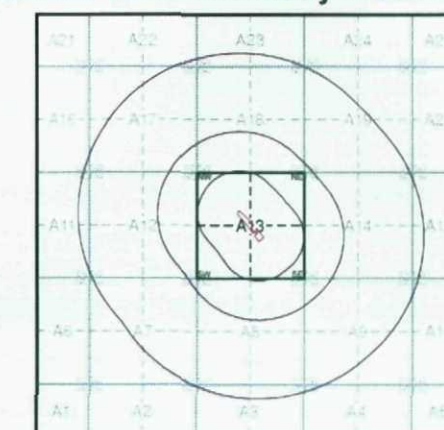
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

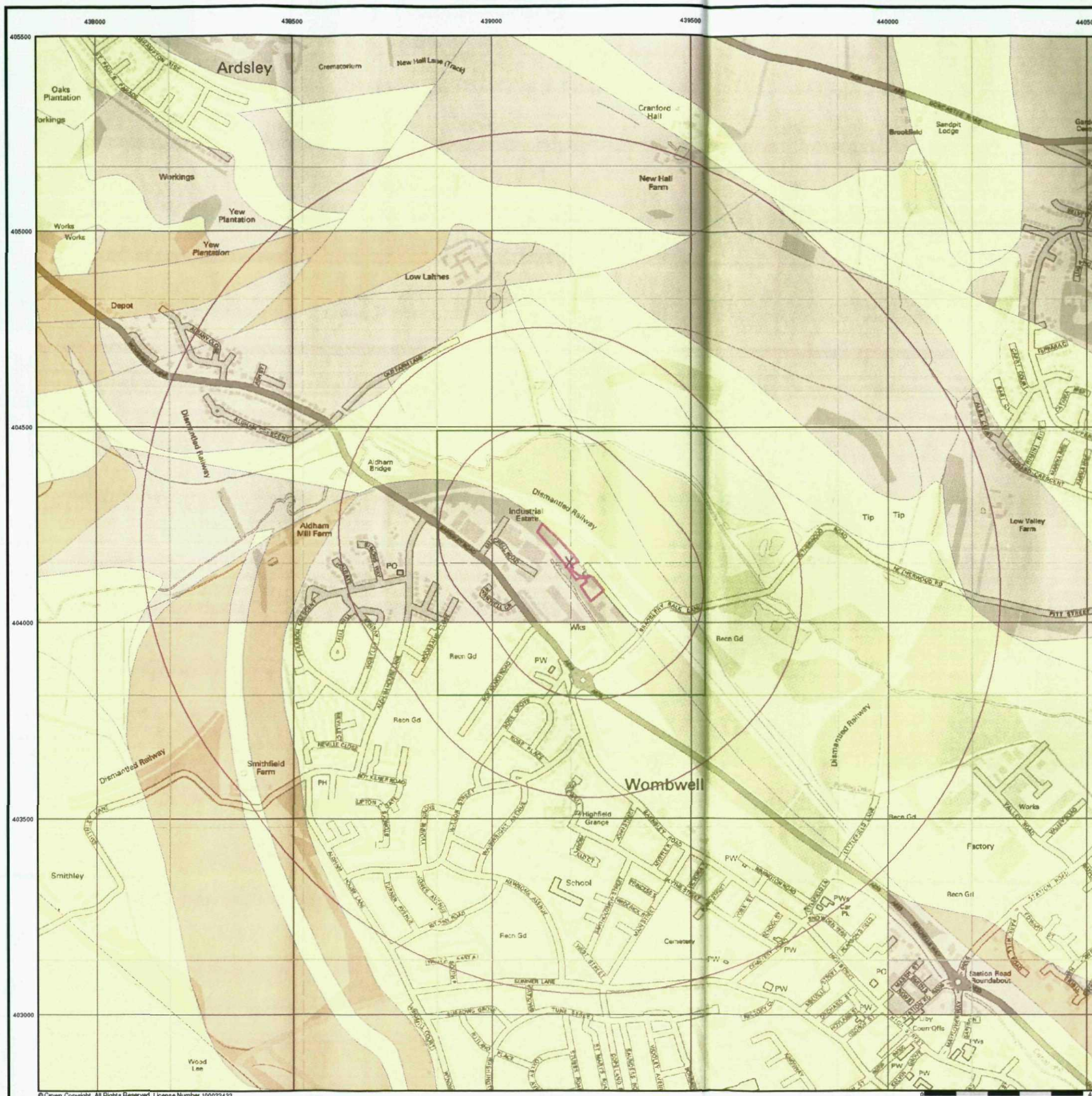


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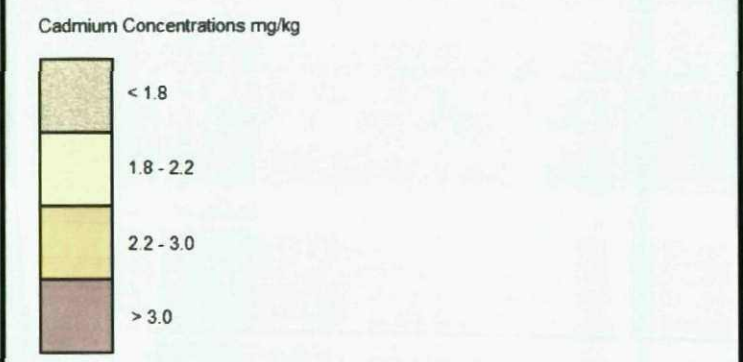




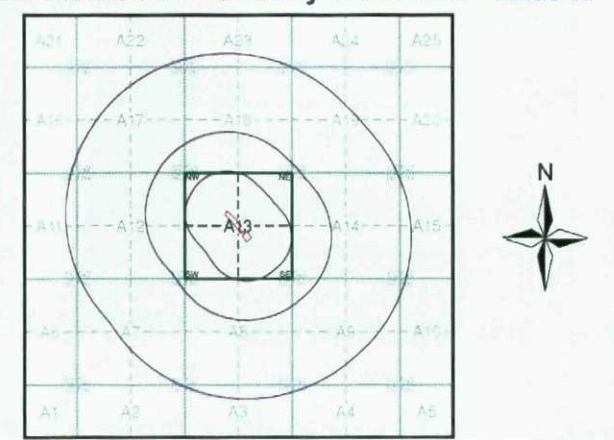
General

Specified Site
 Specified Buffer(s)
 Bearing Reference Point

Estimated Soil Chemistry Cadmium



Estimated Soil Chemistry Cadmium - Slice A



Order Details

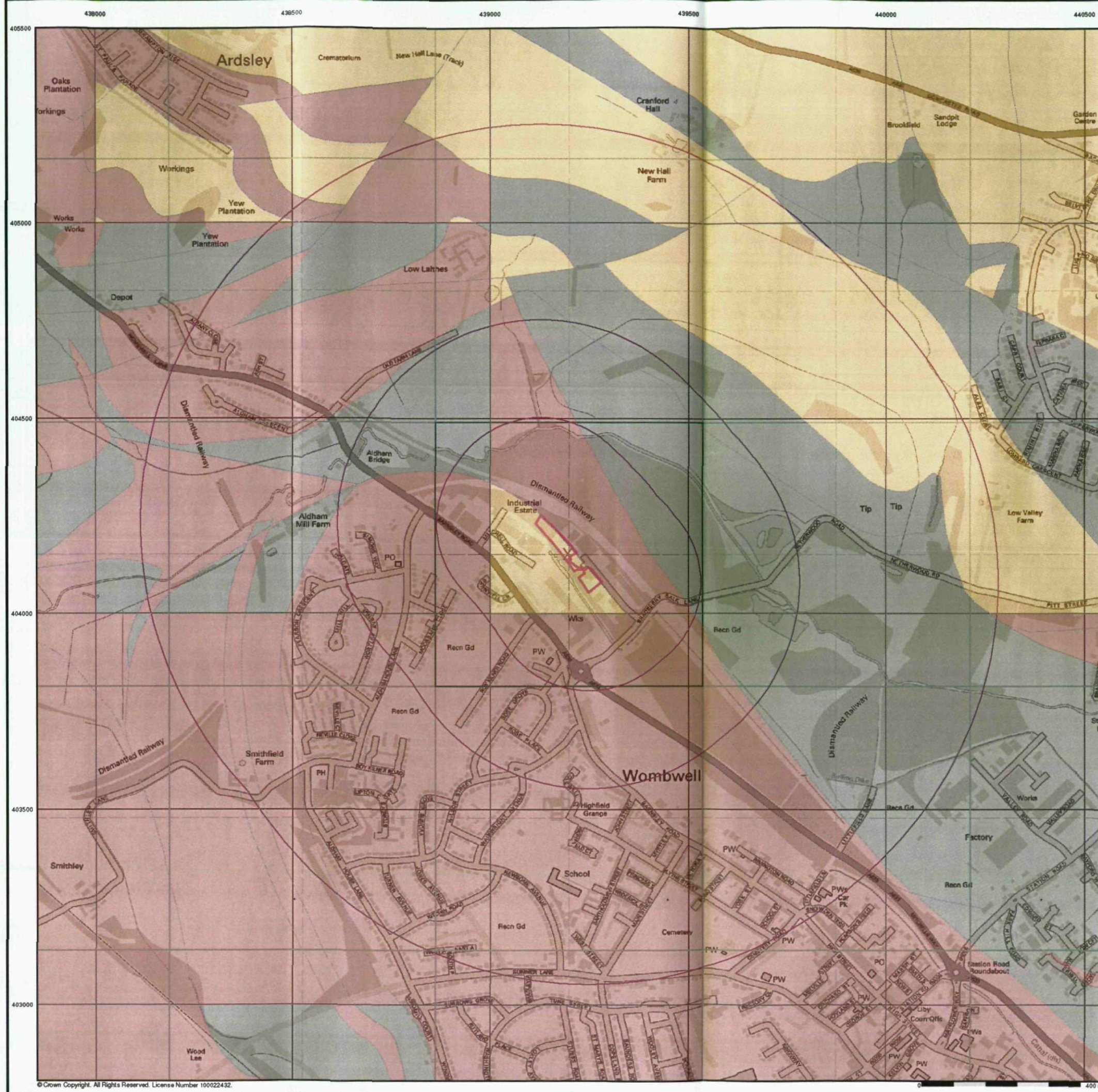
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Landmark

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

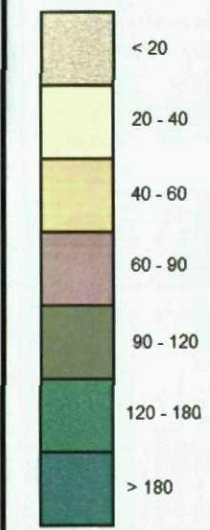


General

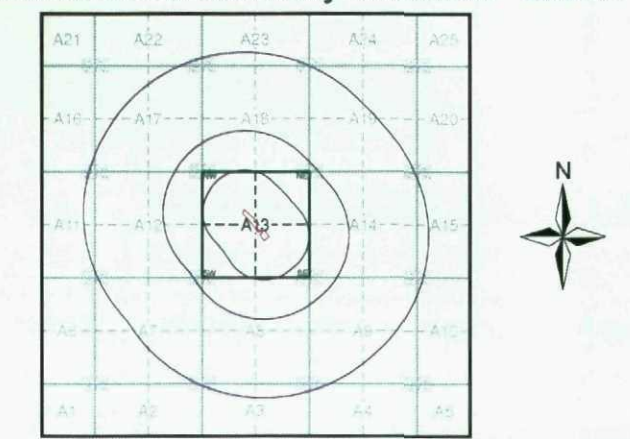
Specified Site
 Specified Buffer(s)
 Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



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Site Details

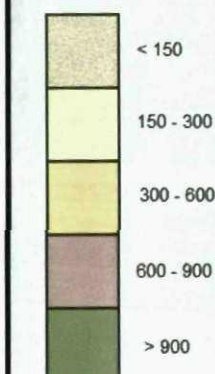
Land and Buildings at Mitchell's Enterprise Park, Bradberry Balk Lane, Wombwell, BARNSELY, South Yorkshire, S73 8HR

General

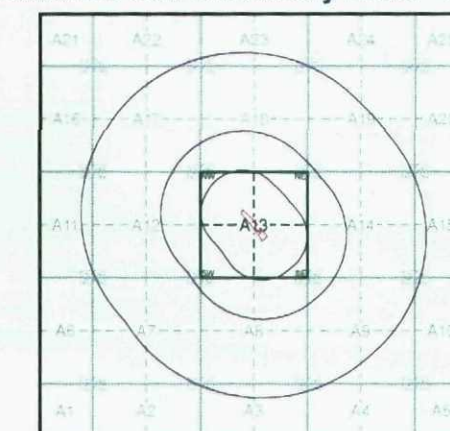
 Specified Site
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Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

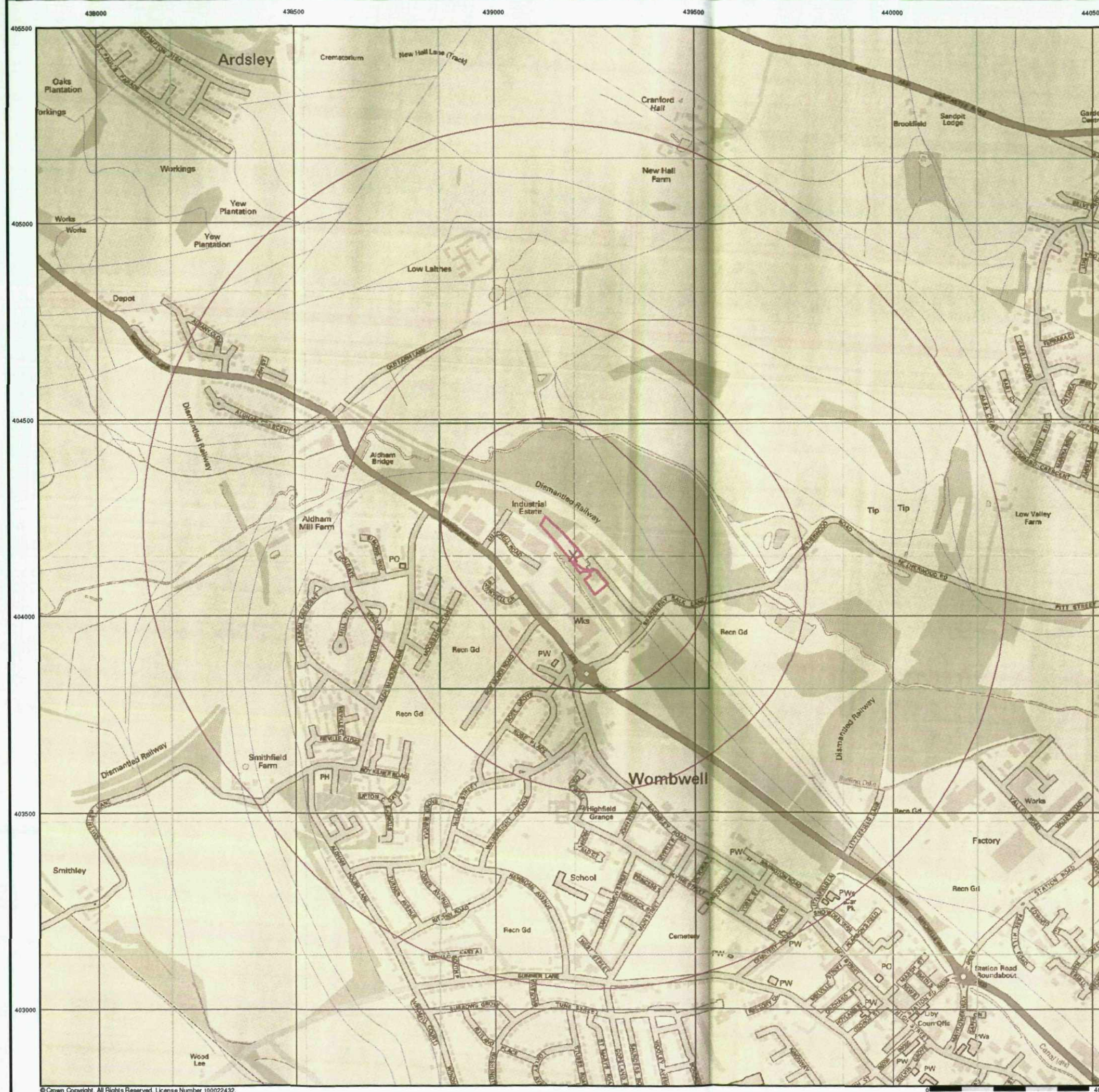


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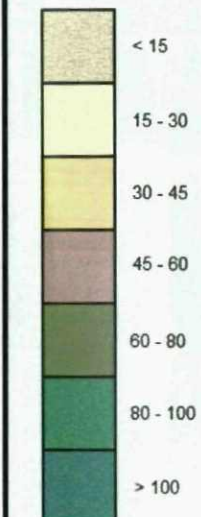


General

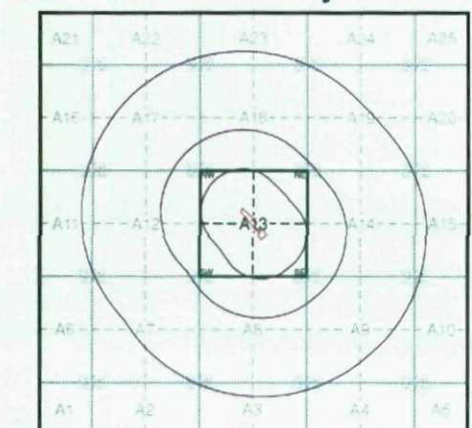
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



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