

Geo-Environmental Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

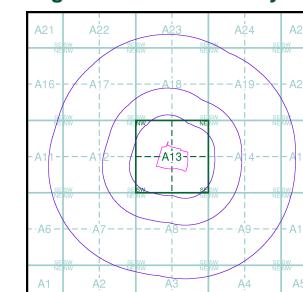
Potential for Collapsible Ground Stability Hazards

Dependence on Data Availability:  High  Low
 Moderate  Very Low

Brine Pumping and Salt Mining

Brine Pumping and Salt Mining

Mining and Ground Stability - Slice A

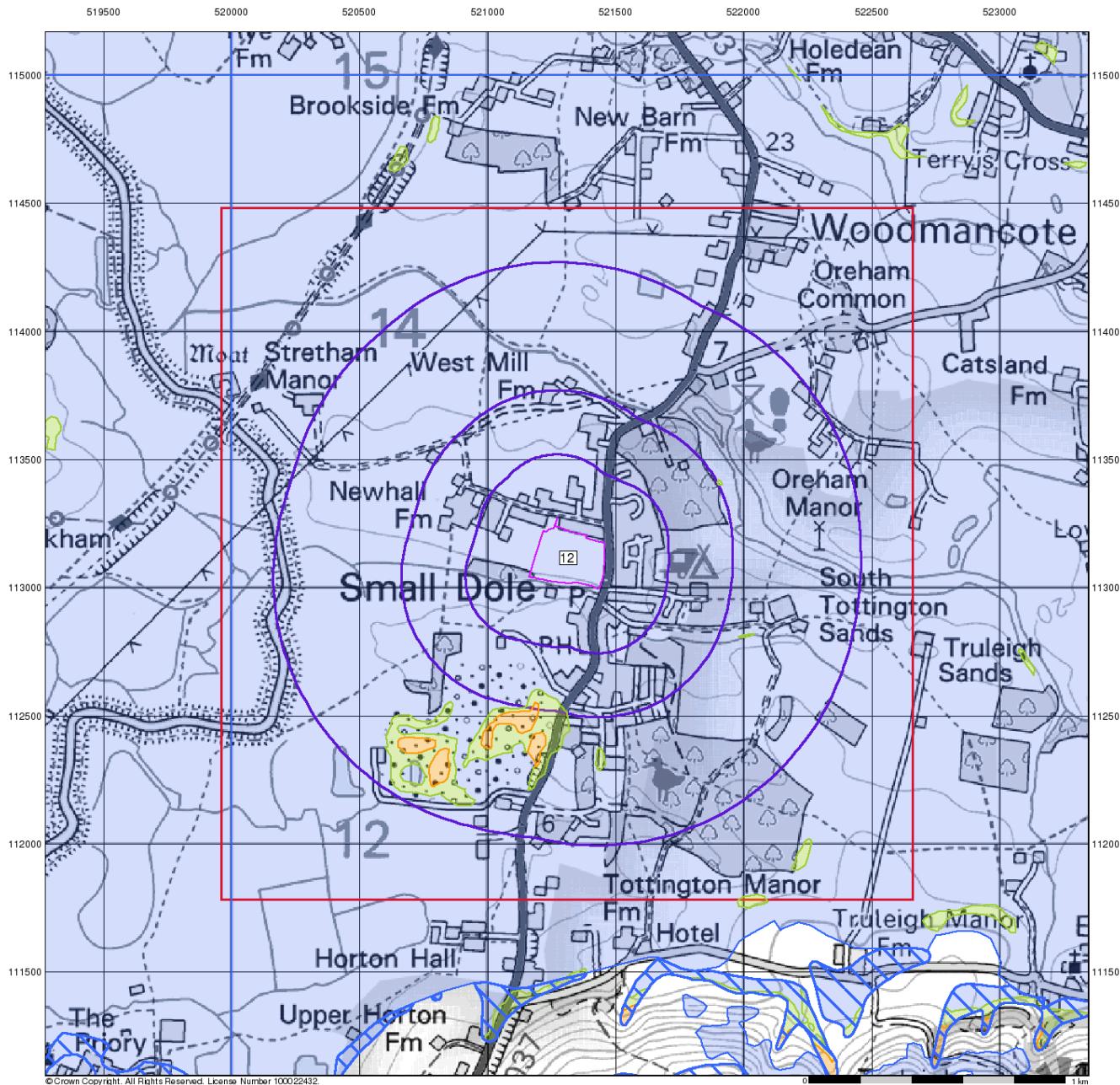


Order Details

Order Details
Order Number: 321564727_1_1
Customer Ref: GE22017
National Grid Reference: 521320, 113120
Slice: A
Site Area (Ha): 5.13
Search Buffer (m): 1000

Site Details

Site Details



Geo-Environmental Ground Stability Data (1:50,000)

General

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

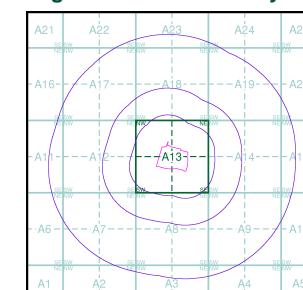
Potential for Landslide Ground Stability Hazards

◊	High	◊	Low
◊	Moderate	◊	Very Low

Potential for Ground Dissolution Stability Hazards

◊	High	◊	Low
◊	Moderate	◊	Very Low

Mining and Ground Stability - Slice A

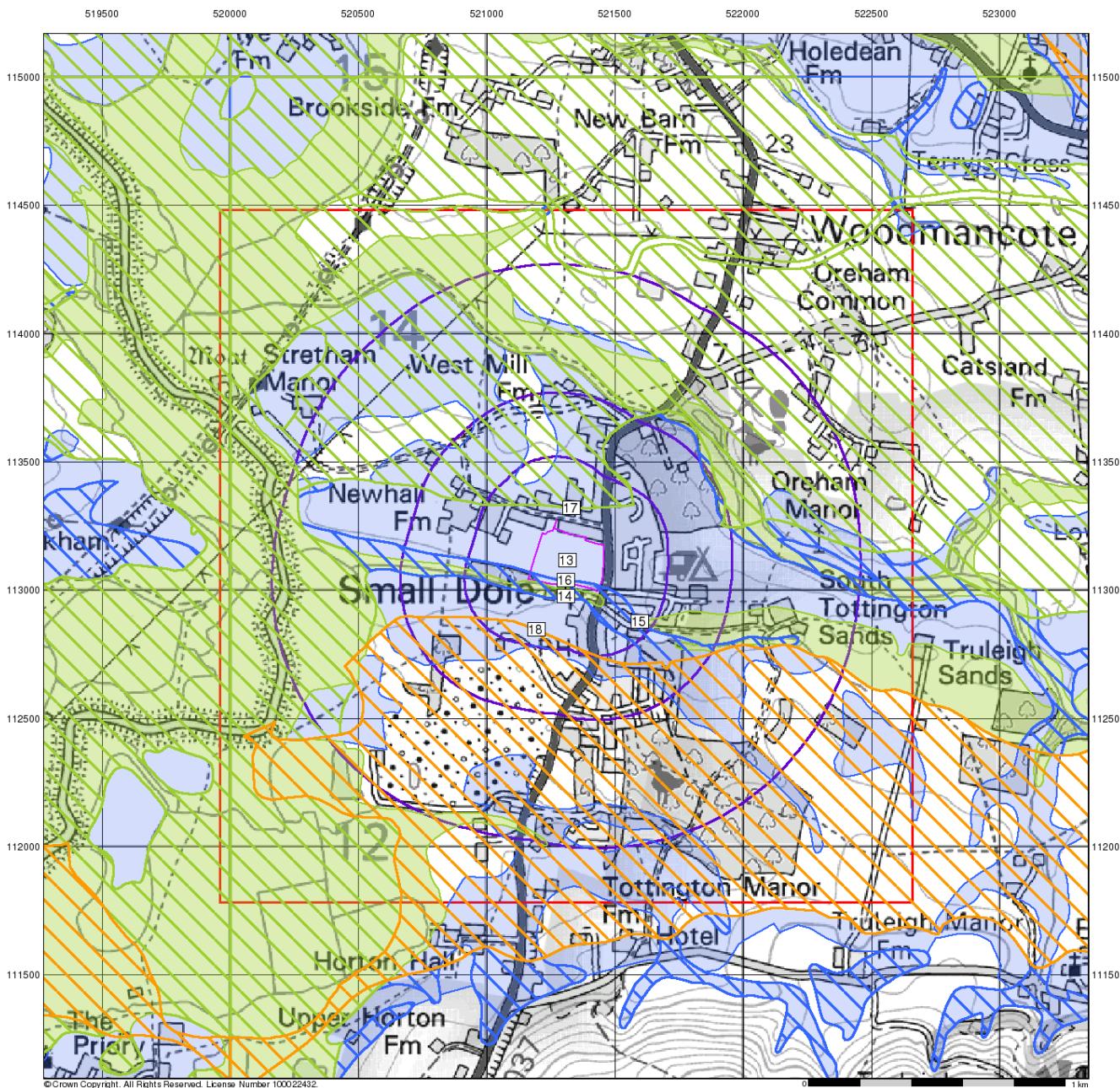


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Site Details

Land off, Shoreham Road, Small Dole, West Sussex



Geo-Environmental Ground Stability Data (1:50,000)

General

● Specified Site ● Specified Buffer(s) X Bearing Reference Point
■ Slice ■ Map ID

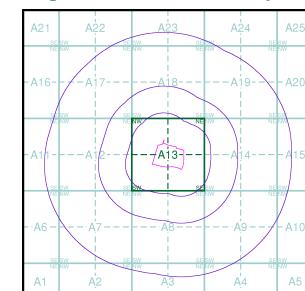
Potential for Running Sand Ground Stability Hazards

■	■
■	■

Potential for Shrinking or Swelling Clay Ground Stability Hazards

■	■
■	■

Mining and Ground Stability - Slice A



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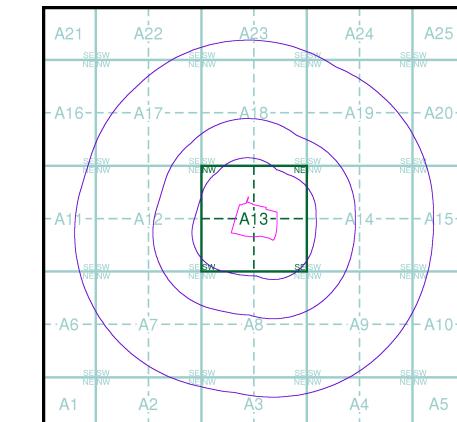
Land off, Shoreham Road, Small Dole, West Sussex



Geo-Environmental

General	Specified Site	Specified Buffer(s)
	Several of Type at Location	X Bearing Reference Point
		Map ID
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 Enforcement		
Pollution Incident to Controlled Waters		
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		
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 - Slice A

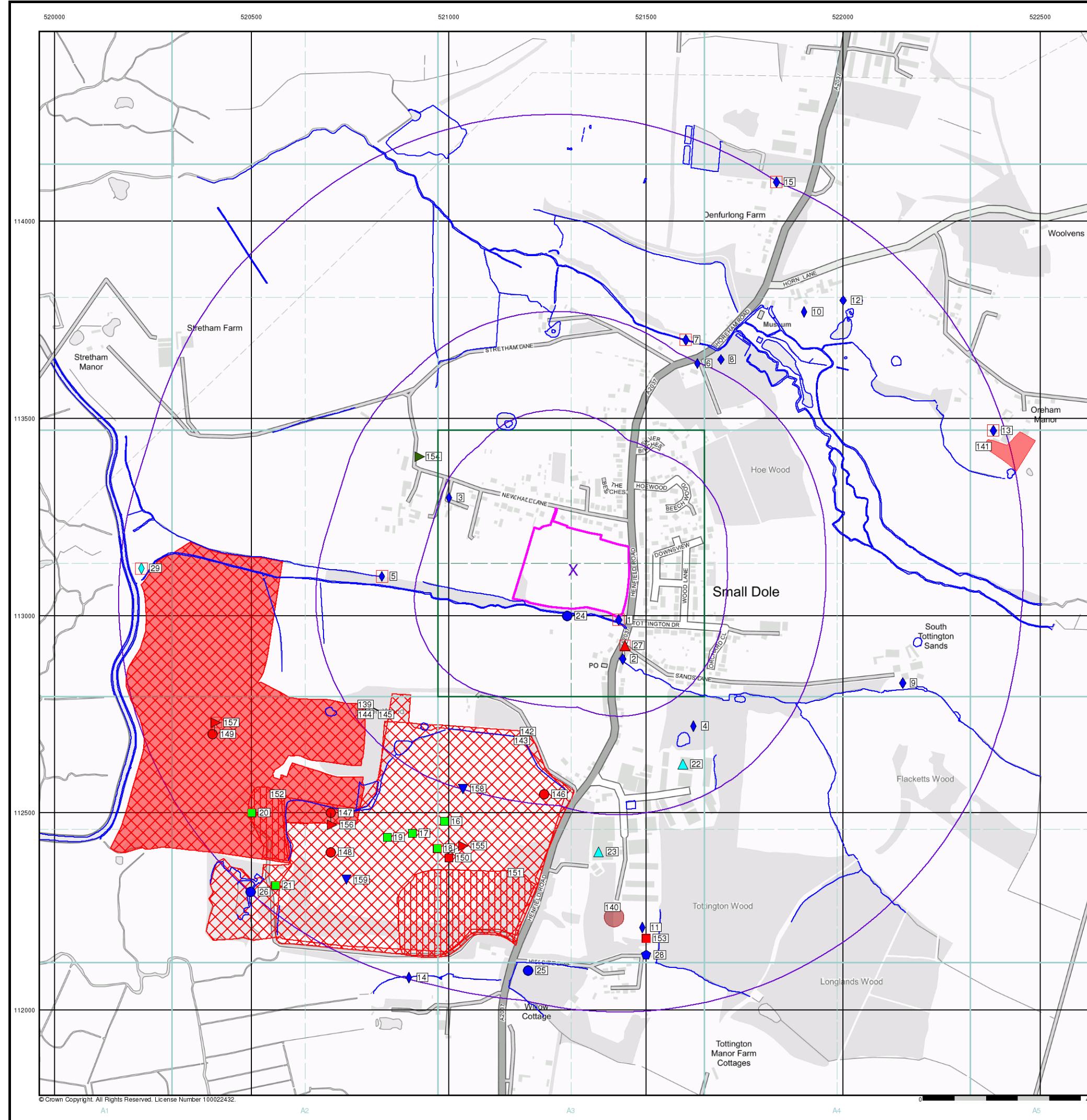


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Site Details

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Geo-Environmental Industrial Land Use Map

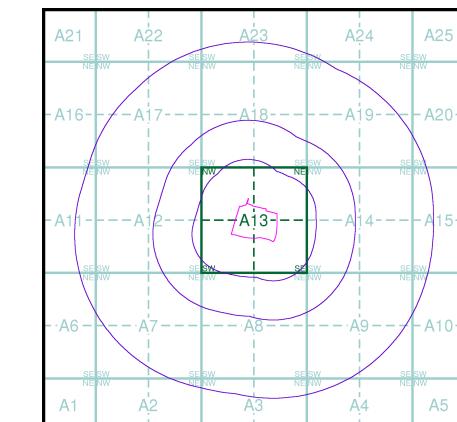
General

- 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

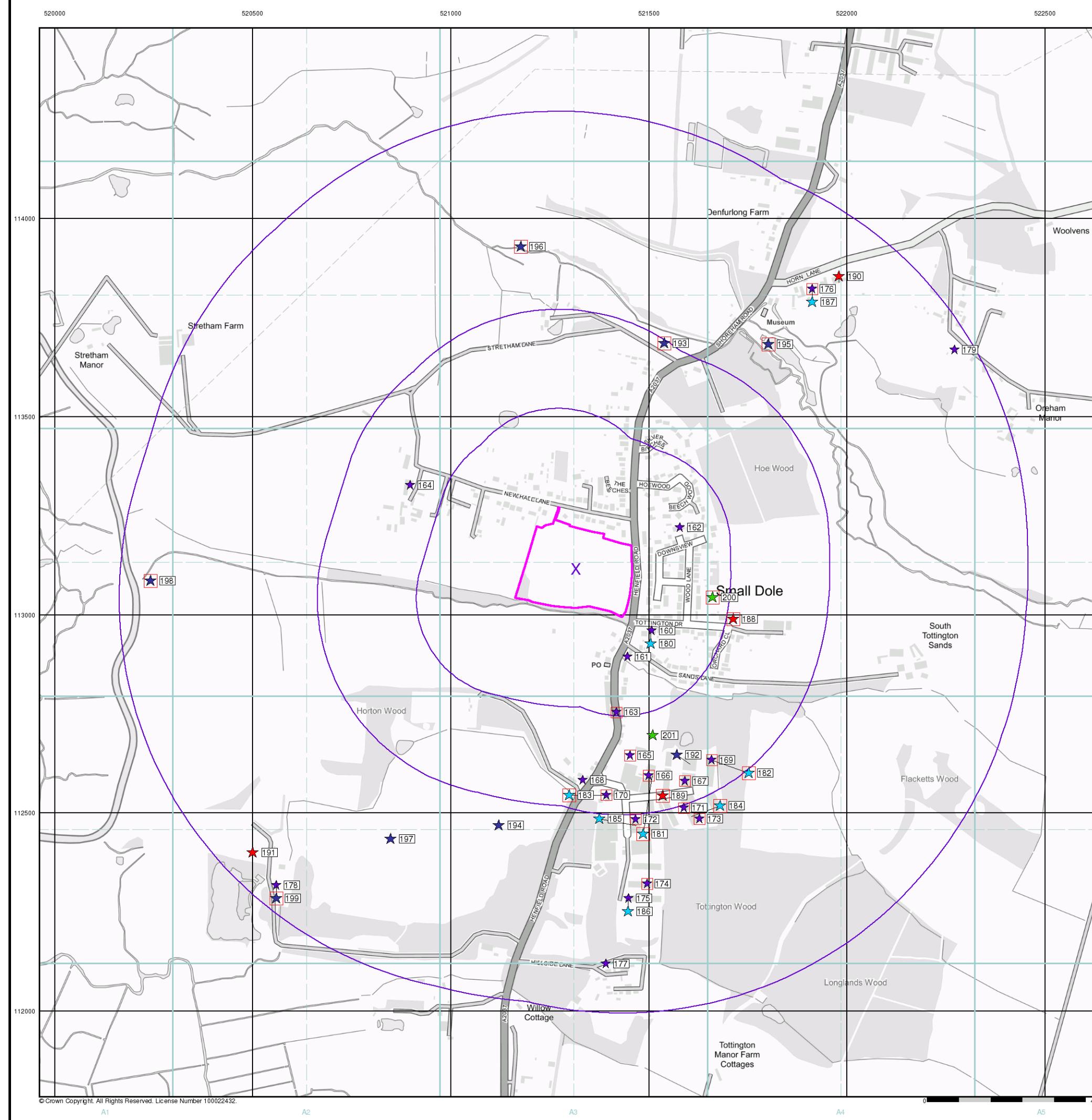


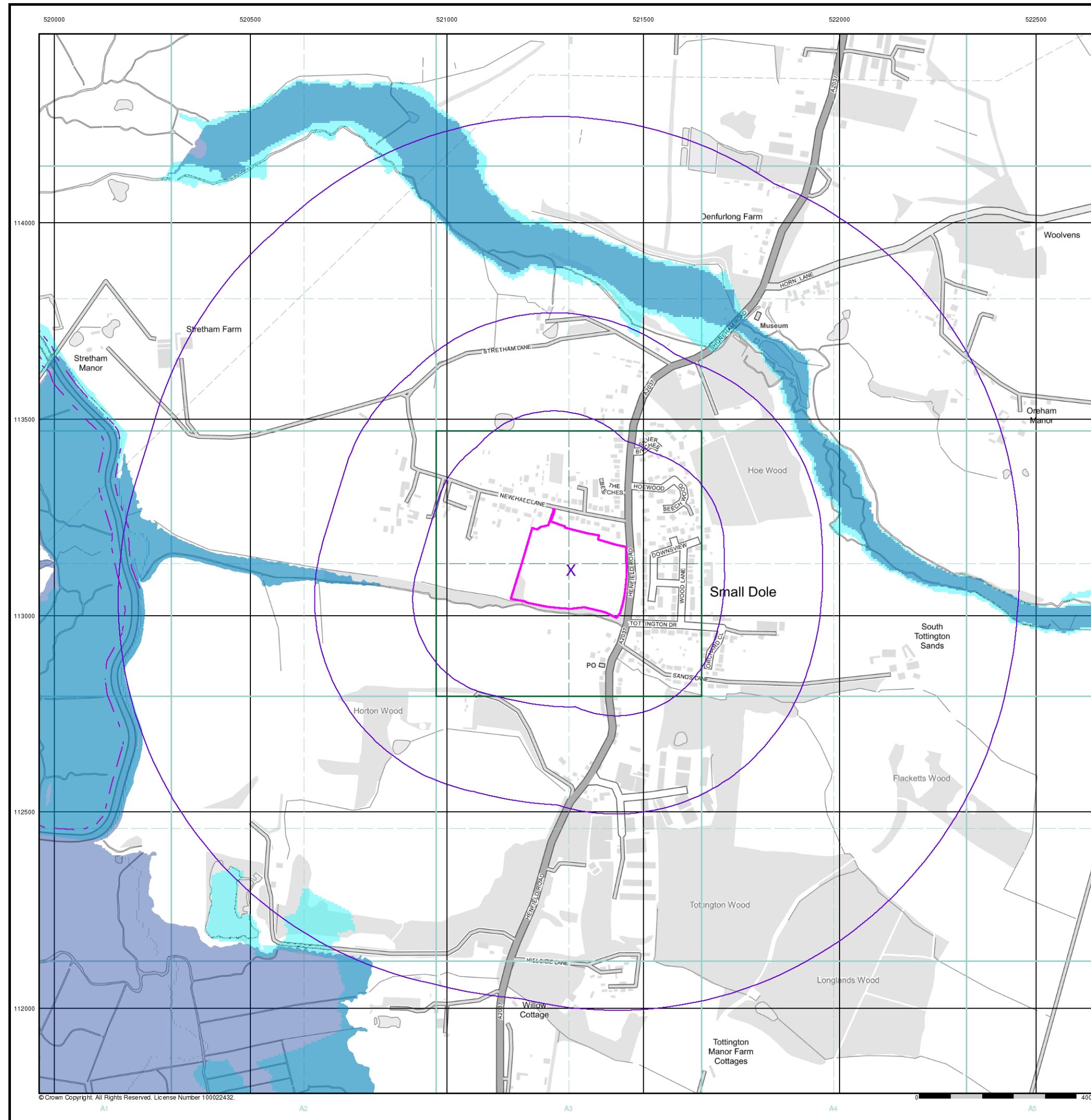
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Search Buffer (m): 1000

Site Details

Land off, Shoreham Road, Small Dole, West Sussex





Geo-Environmental

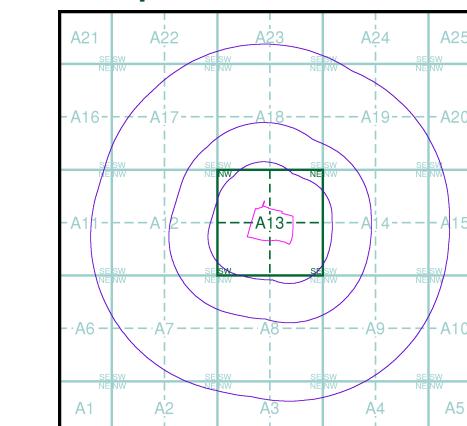
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



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Land off, Shoreham Road, Small Dole, West Sussex



Geo-Environmental

General

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

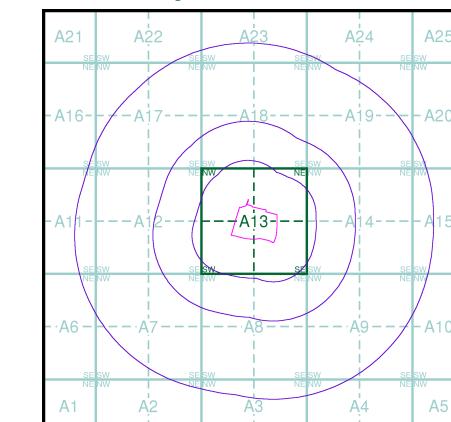
Agency and Hydrological (Boreholes)

- 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

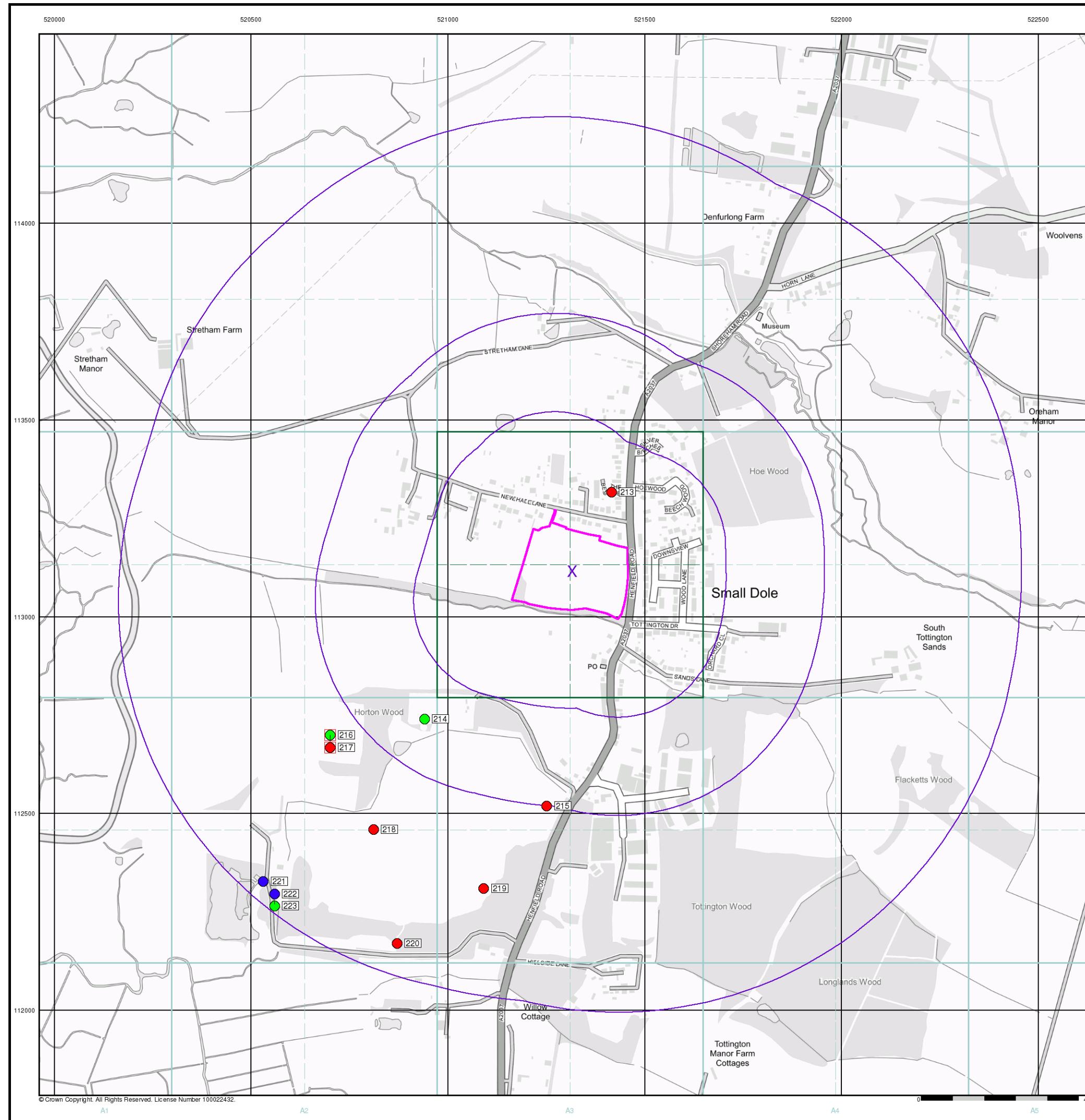


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Site Details

Land off, Shoreham Road, Small Dole, West Sussex





Geo-Environmental

General

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

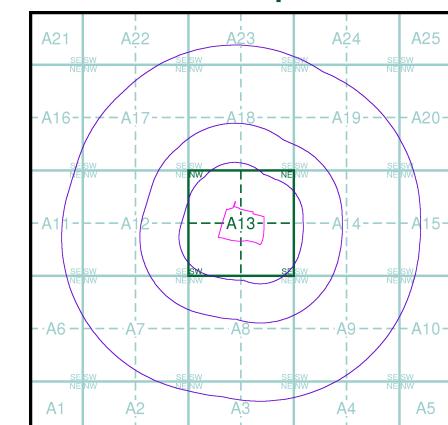
OS Water Network Data

- Drain
- Reservoir
- Foreshore
- Lake
- Marsh
- Tidal River
- Inland River
- Sea

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLW
- MHW

OS Water Network Map - Slice A

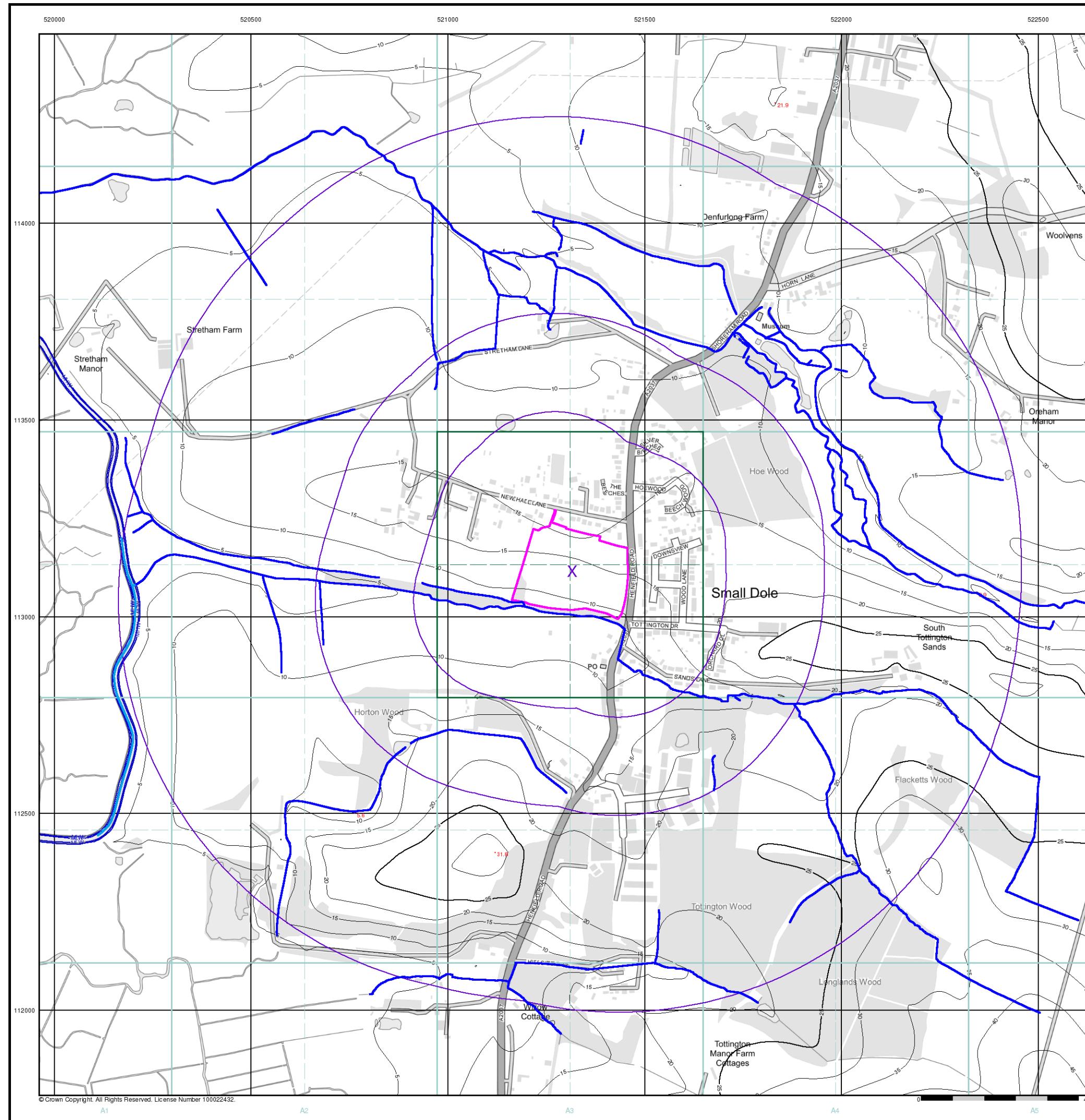


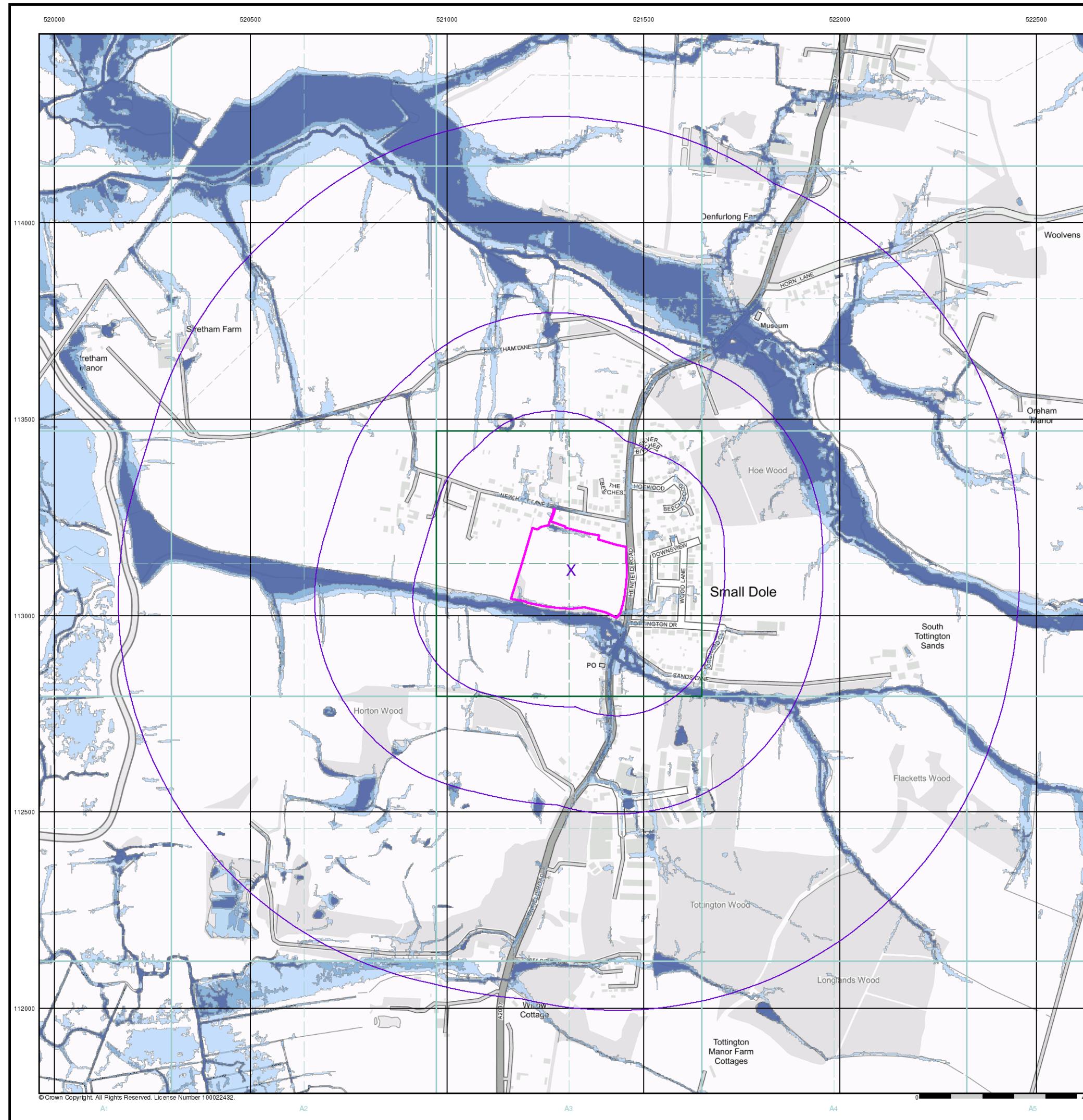
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Site Details

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Geo-Environmental

General

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

Risk of Flooding from Surface Water

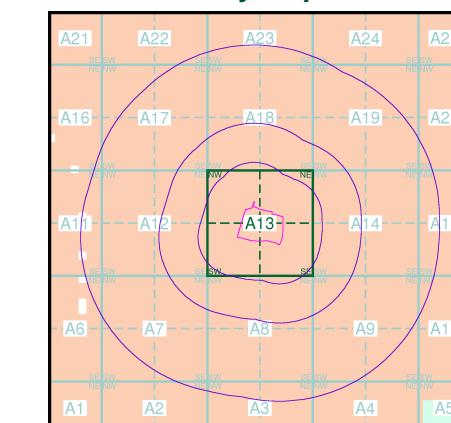
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

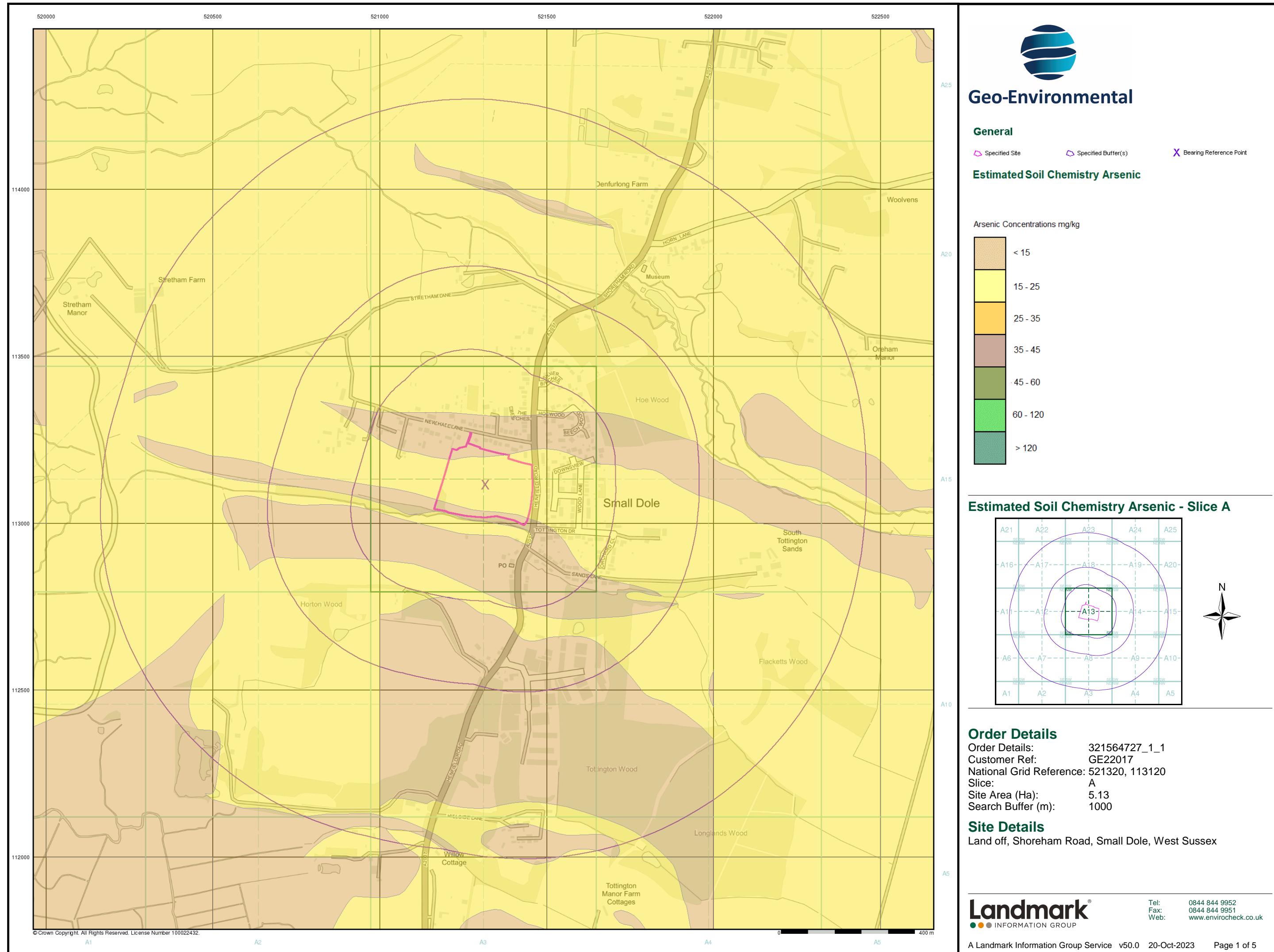
Suitability

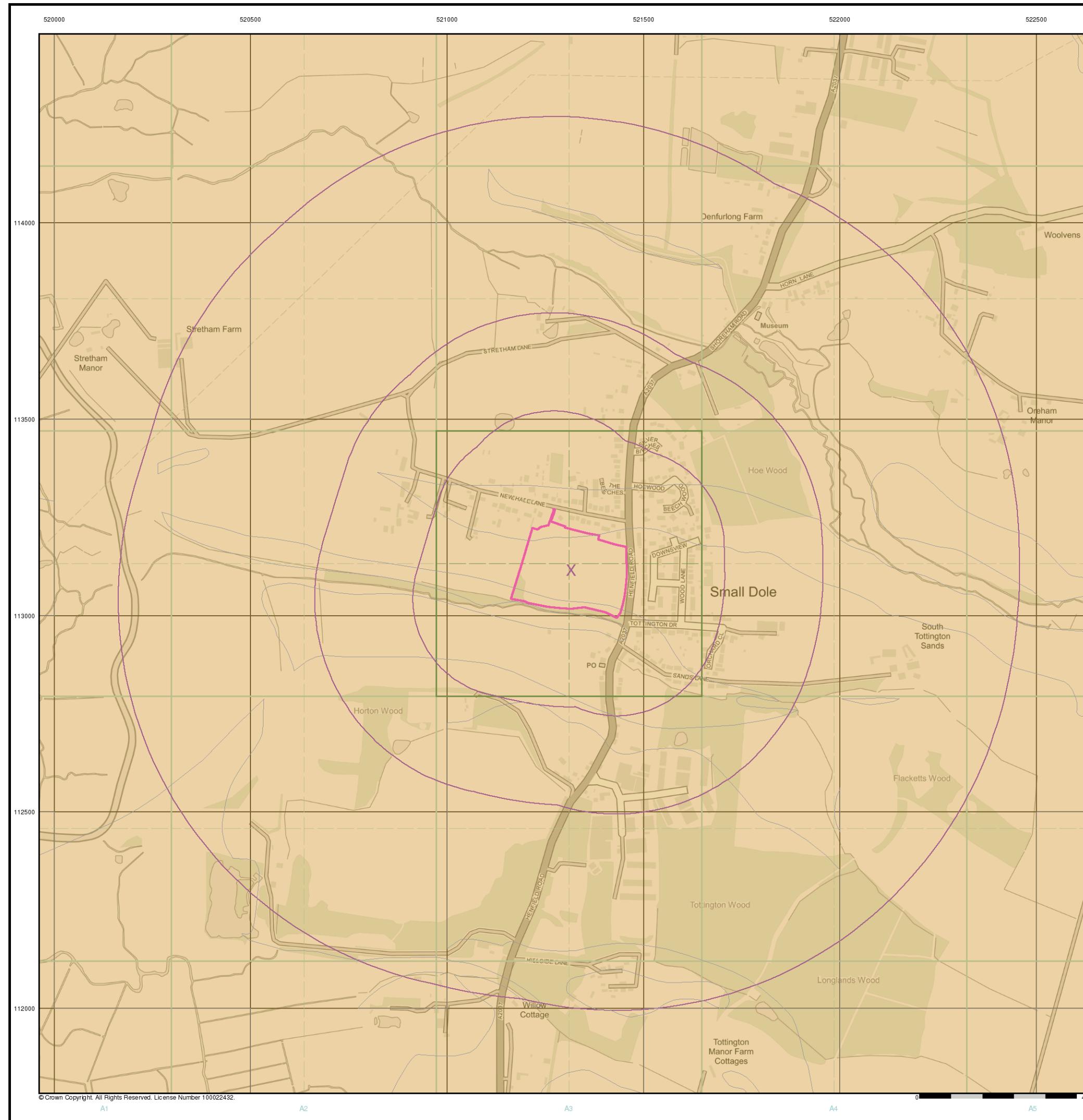
See the suitability map below

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

EA/NRW Suitability Map - Slice A







Geo-Environmental

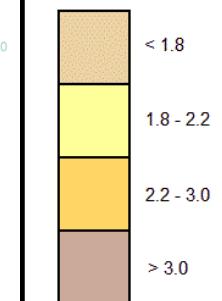
General

Specified Site Specified Buffer(s) Bearing Reference Point

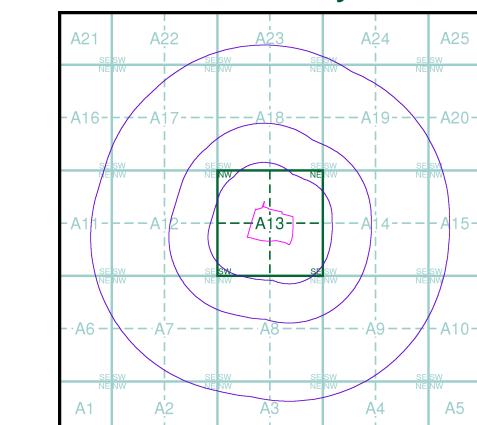
X

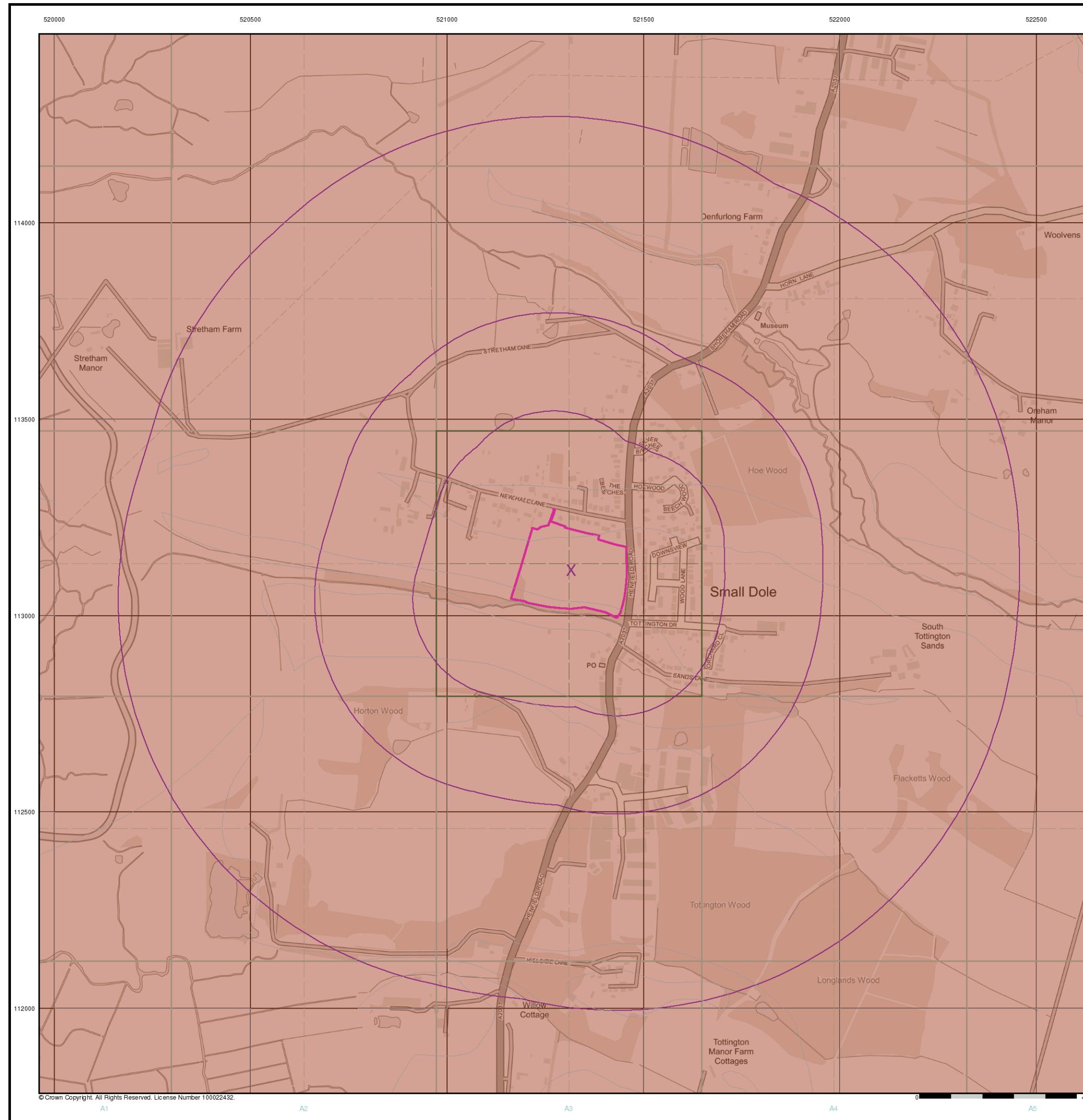
Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A





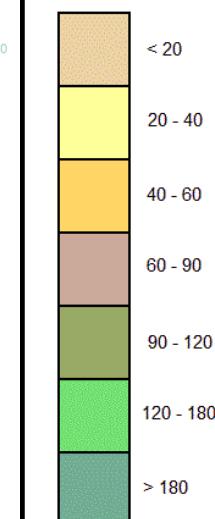
Geo-Environmental

General

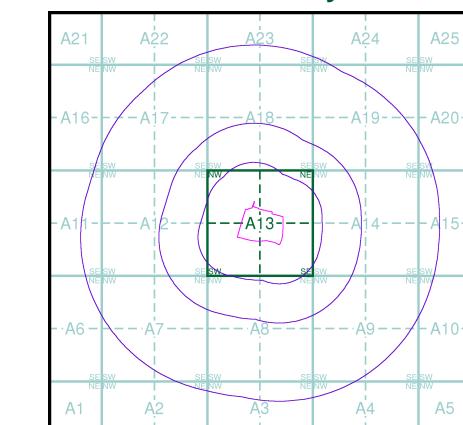
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

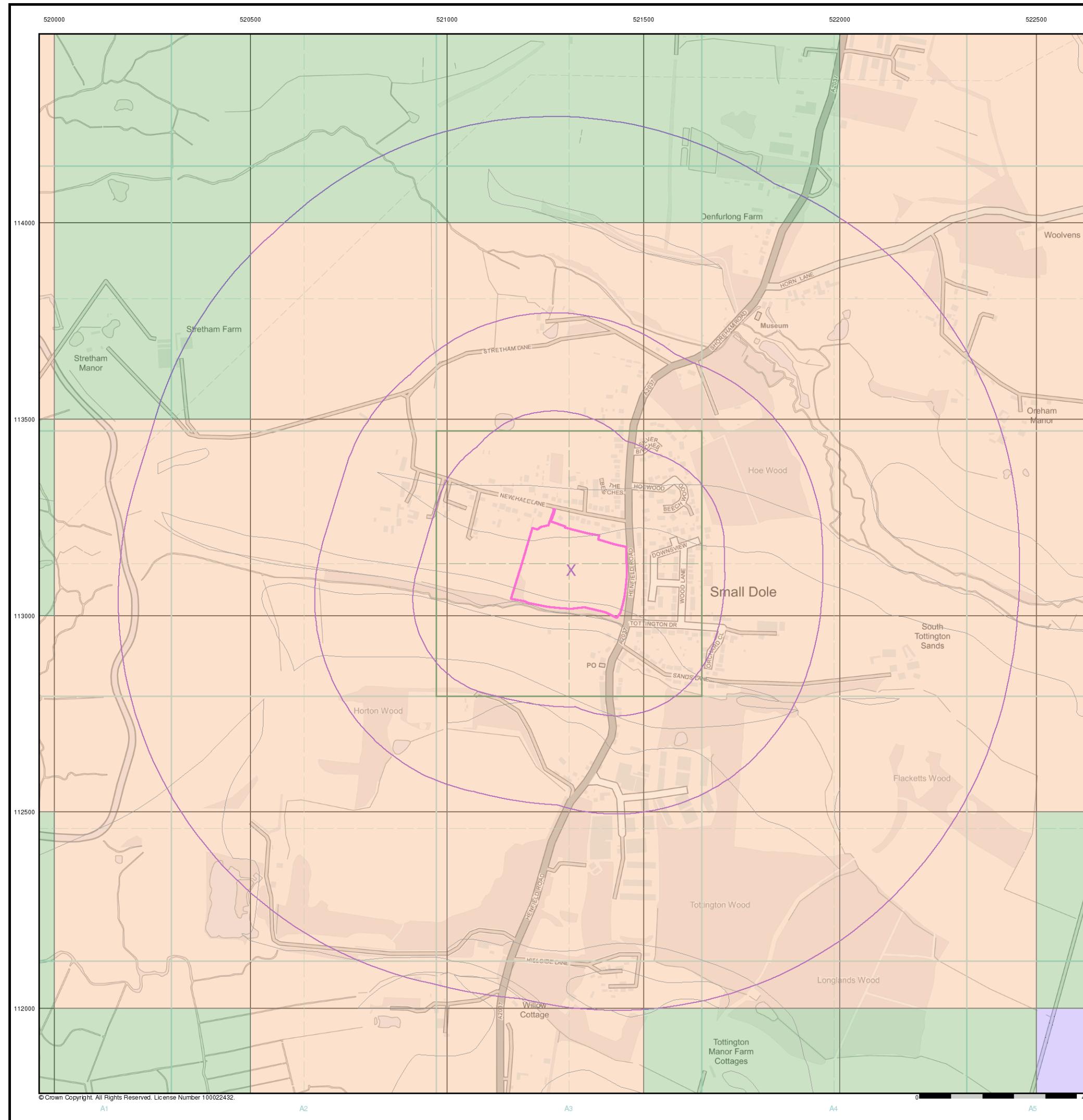


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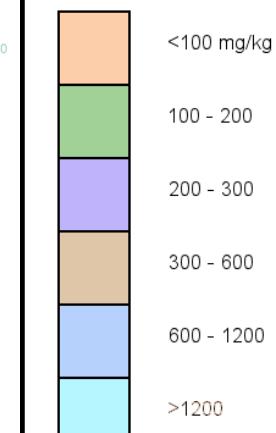
Geo-Environmental

General

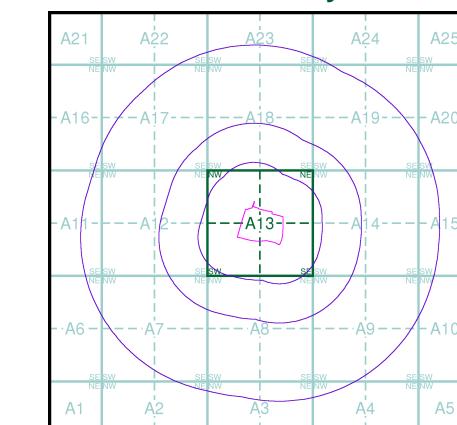
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

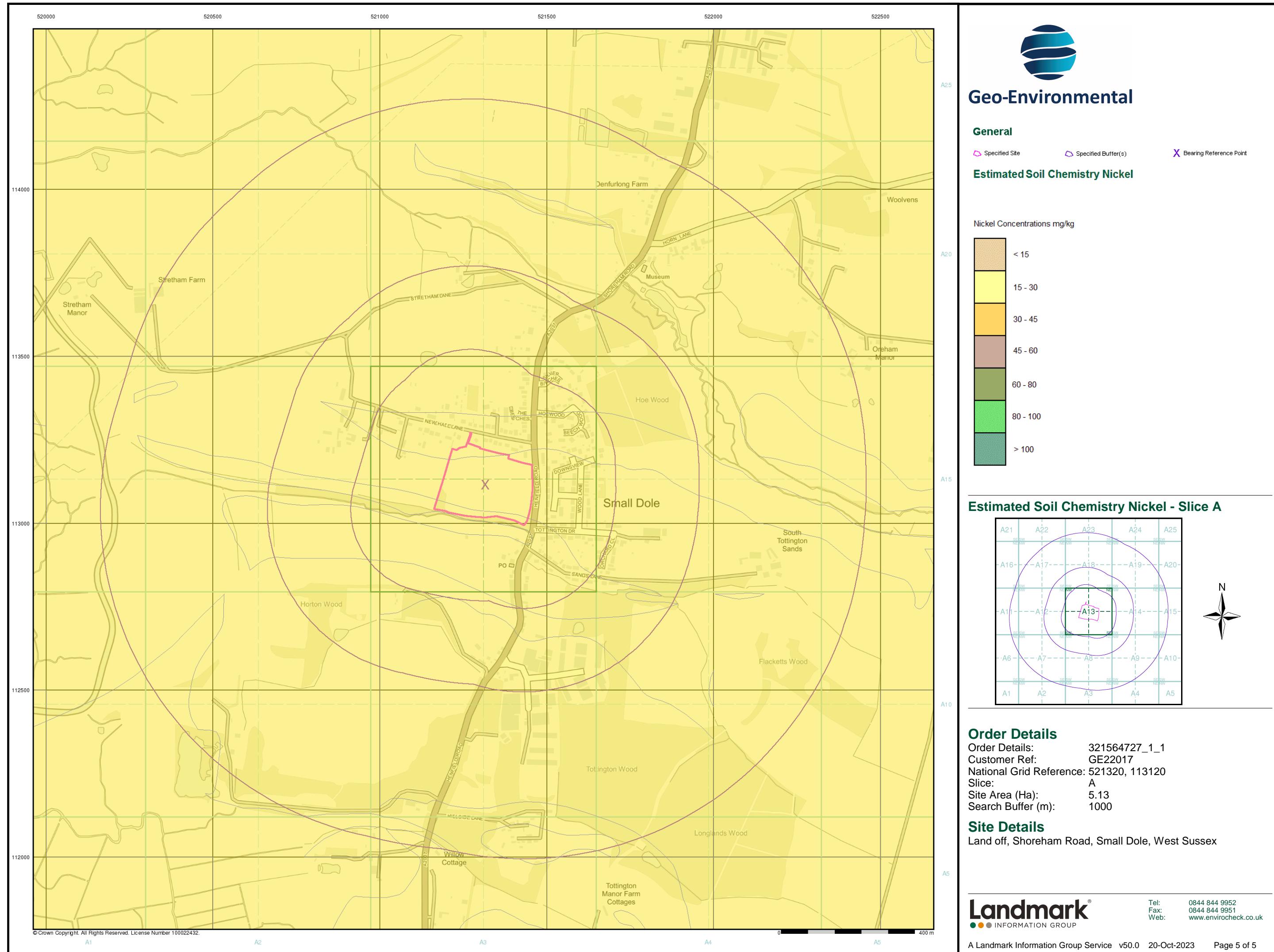


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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand And Peat	Not Supplied - Holocene
	AD1T2	River Terrace Deposits, 1-2 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	AD1	River Terrace Deposits, 1 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	AD2	River Terrace Deposits, 2 (Adur)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	NPCH	New Pit Chalk Formation	Chalk	Not Supplied - Turonian
	LECH	Lewes Nodular Chalk Formation	Chalk	Not Supplied - Turonian
	WMCH	West Melbury Marly Chalk Formation	Chalk	Not Supplied - Cenomanian
	ZZCH	Zig Zag Chalk Formation	Chalk	Not Supplied - Cenomanian
	HCK	Holywell Nodular Chalk Formation	Chalk	Not Supplied - Cenomanian
	GLT	Gault Formation	Mudstone	Not Supplied - Albian
	UGS	Upper Greensand Formation	Siltstone and Sandstone	Not Supplied - Albian
	LGS	Lower Greensand Group	Sandstone, Silty	Not Supplied - Aptian
	FO	Folkestone Formation	Sandstone	Not Supplied - Aptian
	WC	Weald Clay Formation	Mudstone	Not Supplied - Hauterivian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WC	Weald Clay Formation	Limestone	Not Supplied - Hauterivian
	WC	Weald Clay Formation	Silicate-claystone	Not Supplied - Hauterivian
		Faults		



Geo-Environmental

Geology 1:50,000 Maps

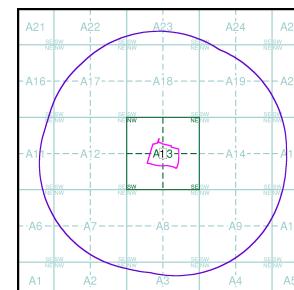
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	318
Map Name:	Brighton and Worthing
Map Date:	2006
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

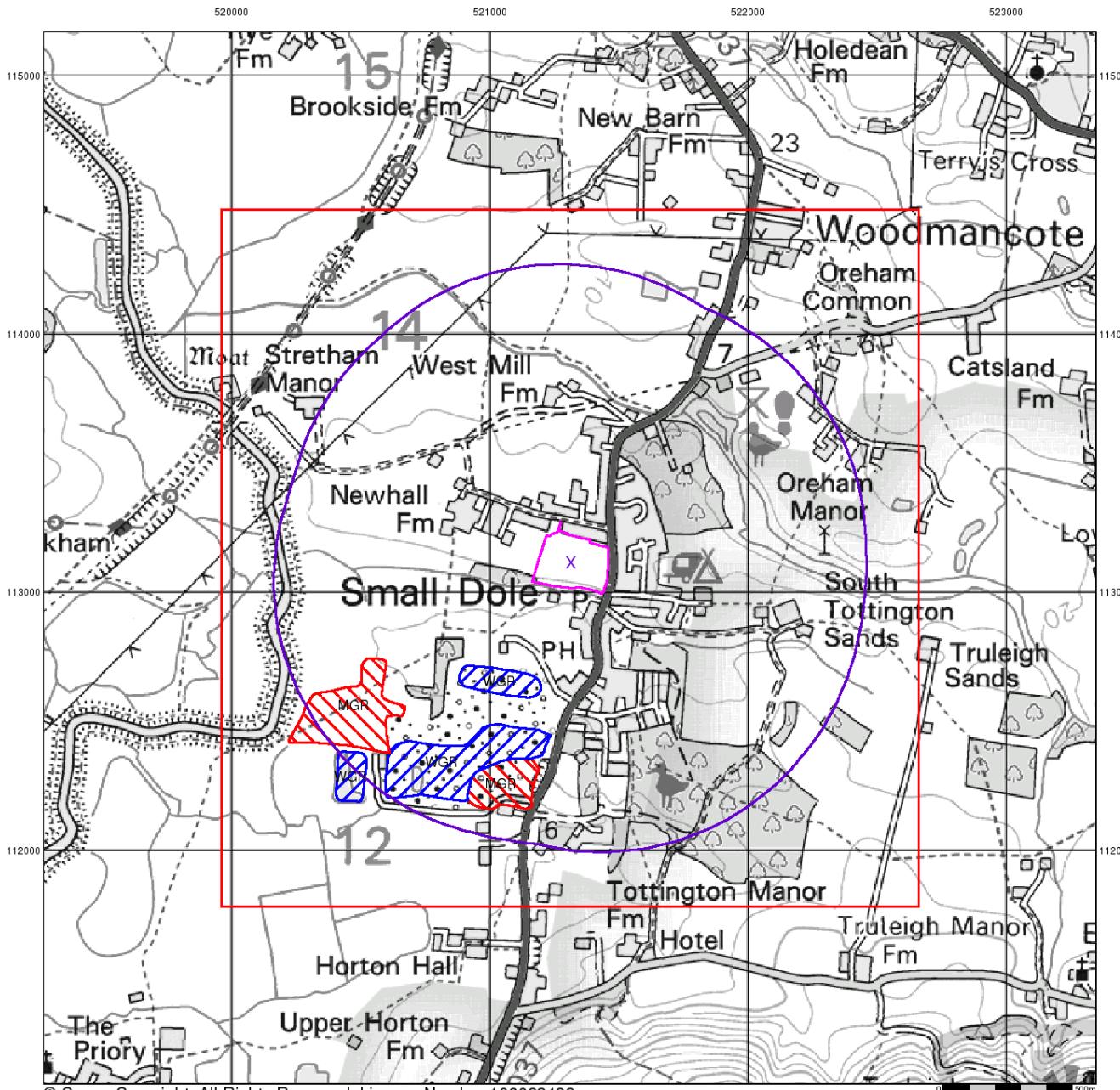


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Geo-Environmental

Artificial Ground and Landslip

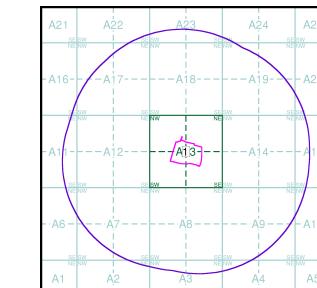
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions 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 (landslide) 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 founded strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A

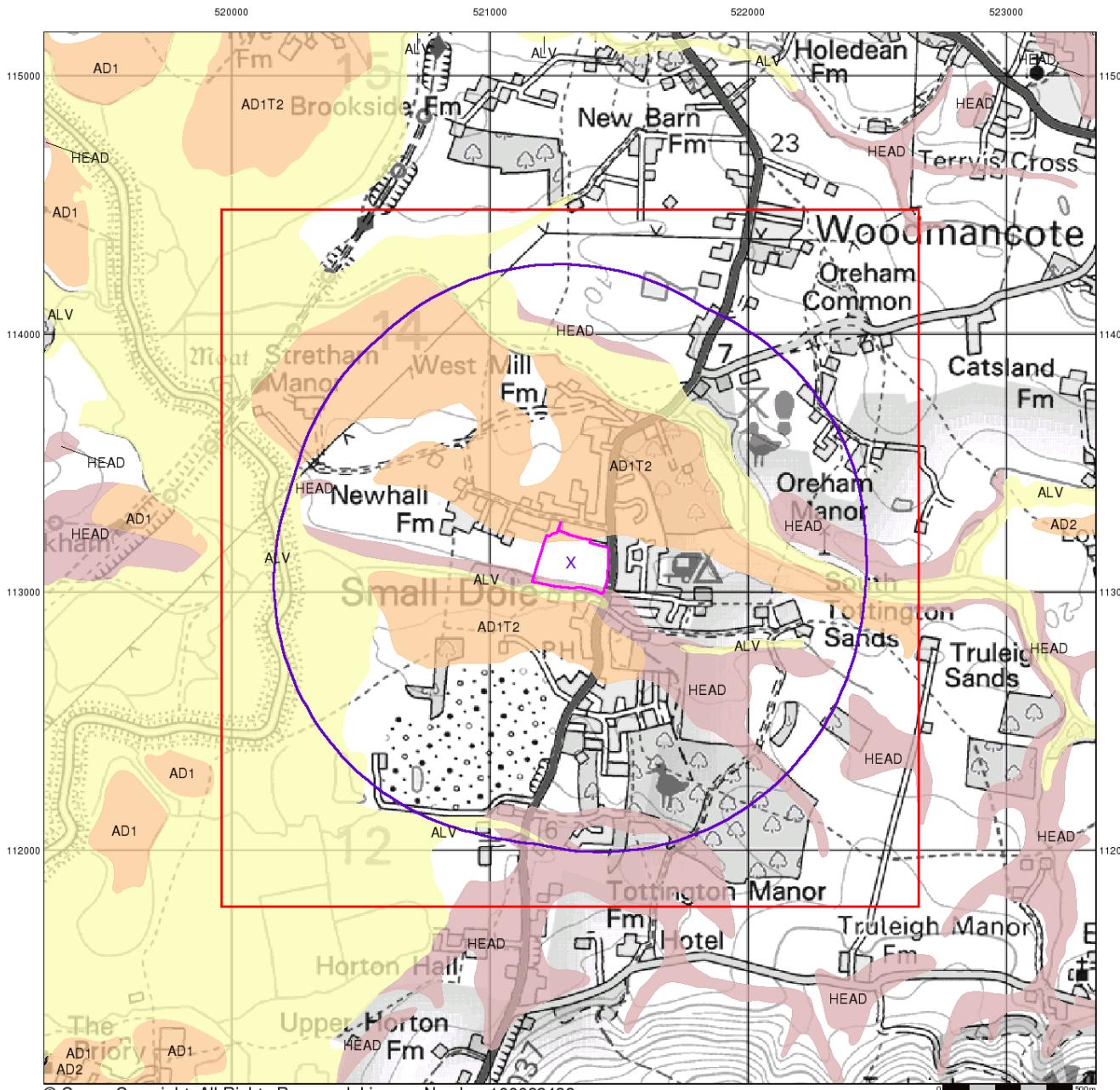


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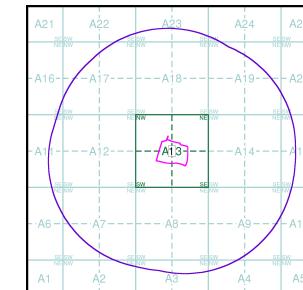
Superficial Geology

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

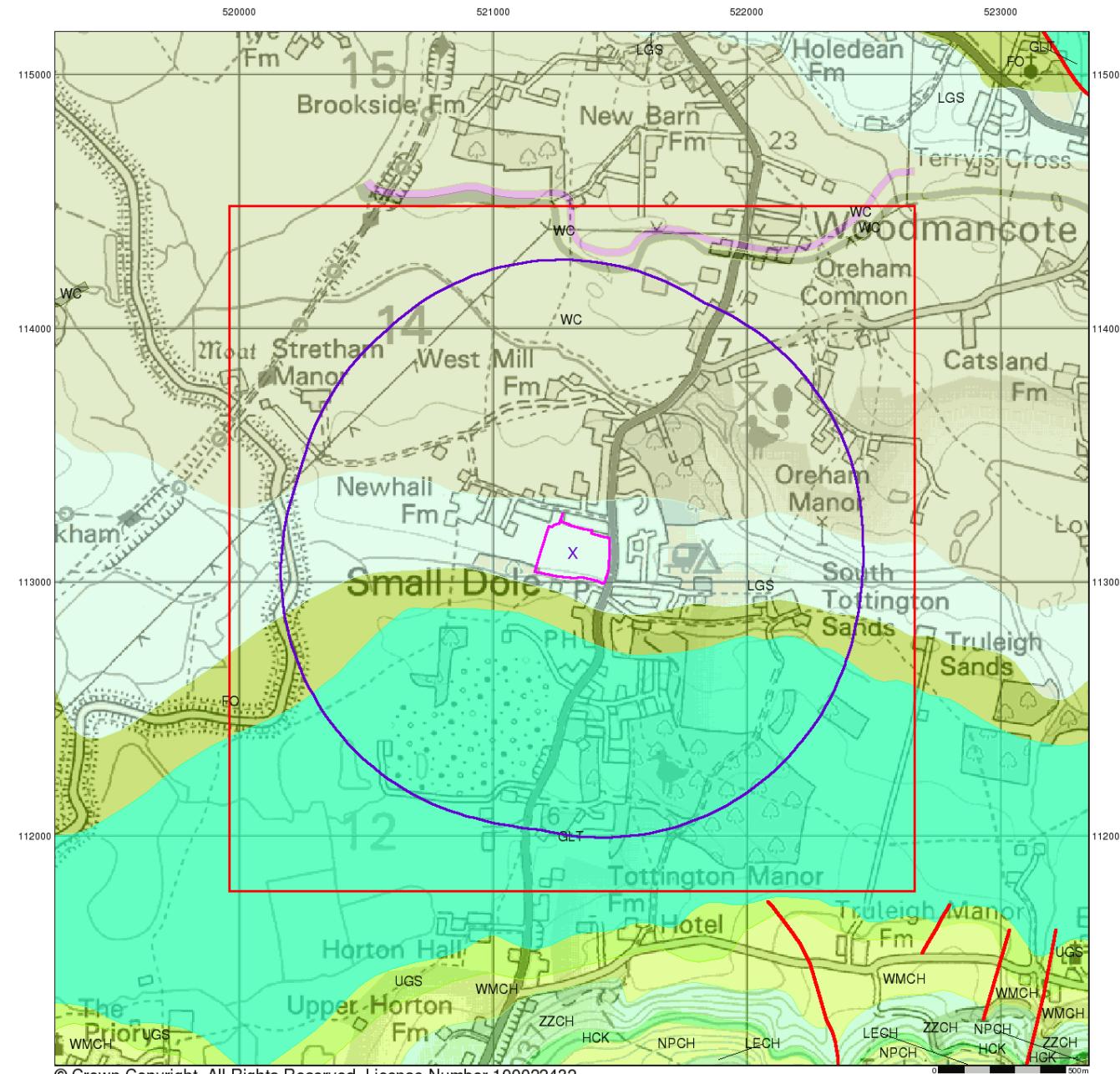


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Geo-Environmental

Bedrock and Faults

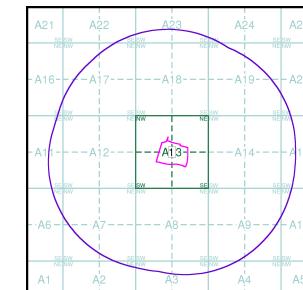
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

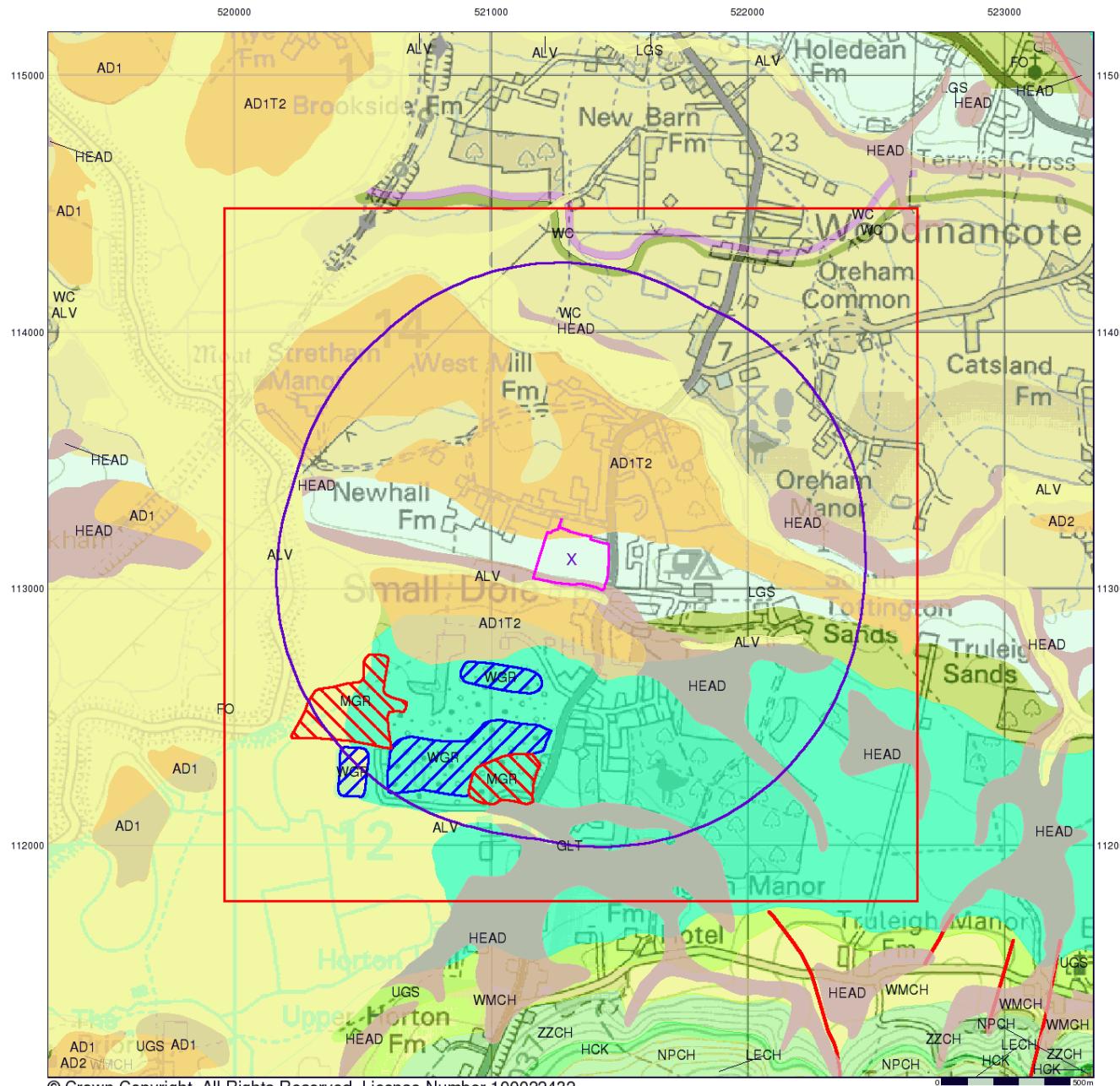


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Geo-Environmental

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.

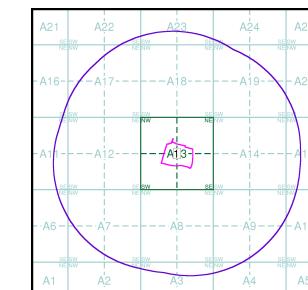
Additional Information

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



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Geo-Environmental Historical Land Use Information (1:2,500)

General

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

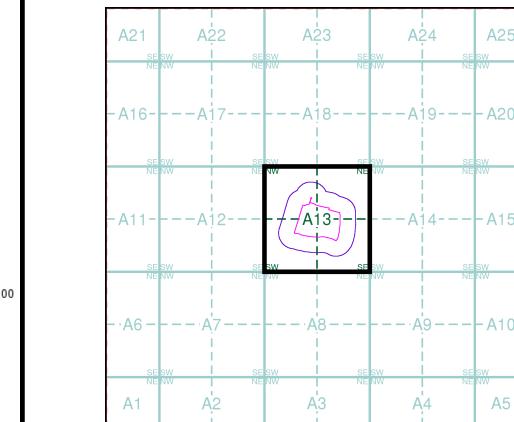
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	—	■

Mining and Ground Stability - Segment A13

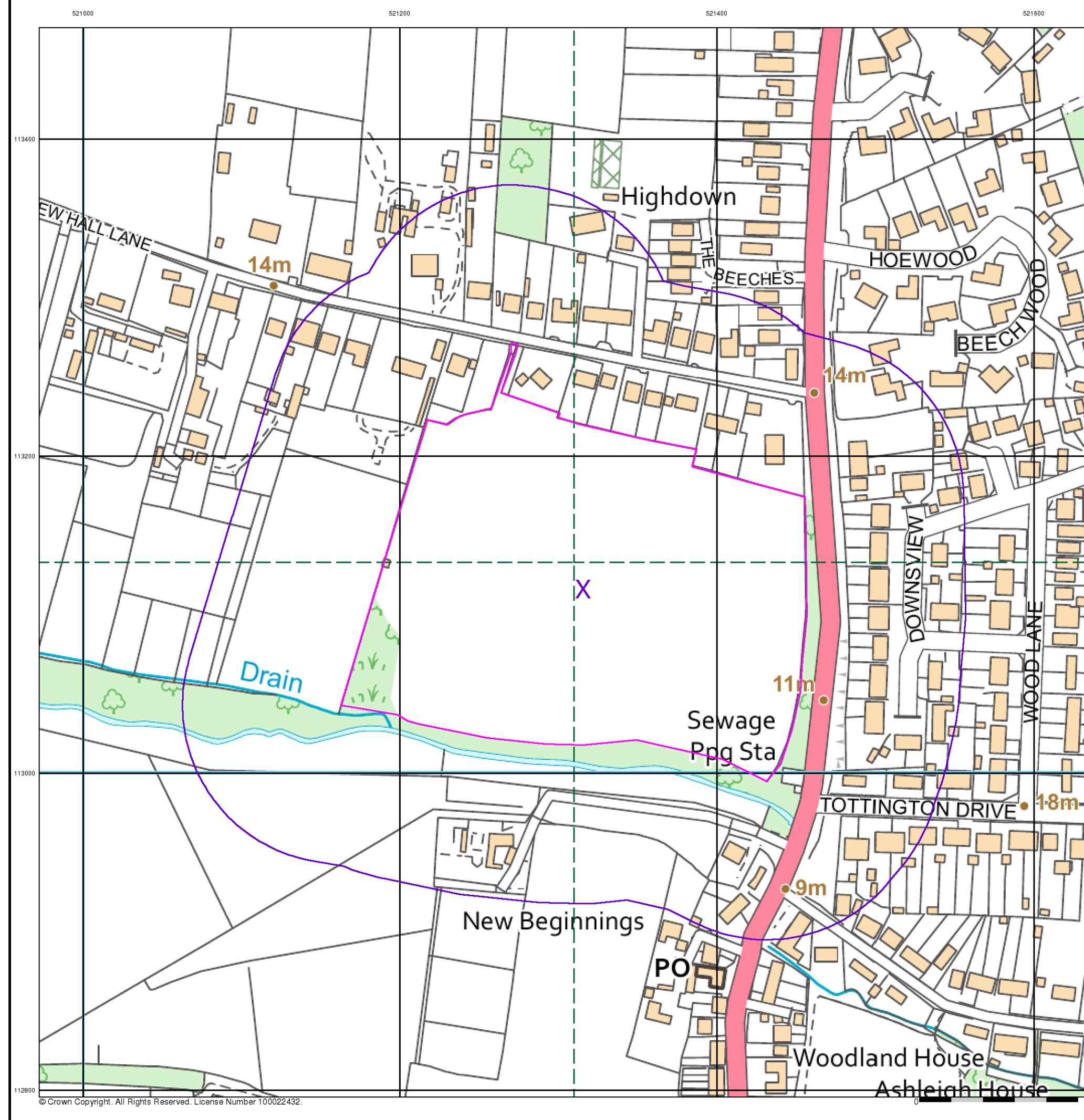


Order Details

Order Number: 321564727_1_1
Customer Ref: GE22017
National Grid Reference: 521320, 113120
Slice: A
Site Area (Ha): 5.13
Plot Buffer (m): 100

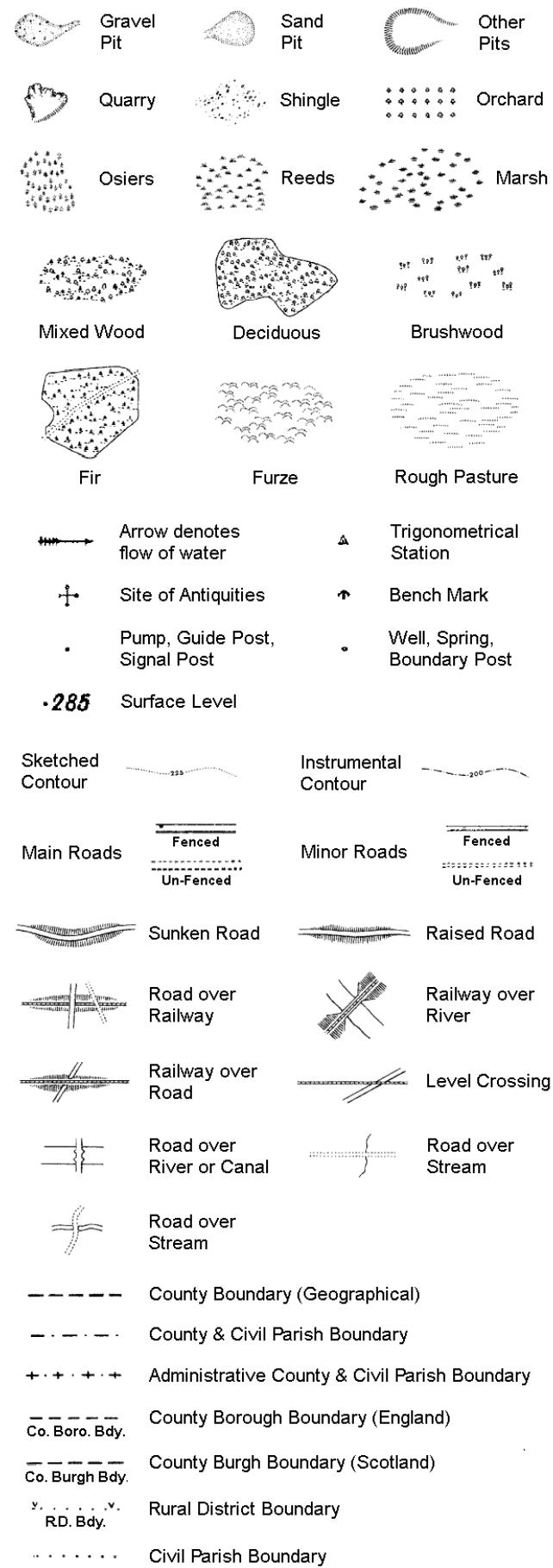
Site Details

Land off, Shoreham Road, Small Dole, West Sussex

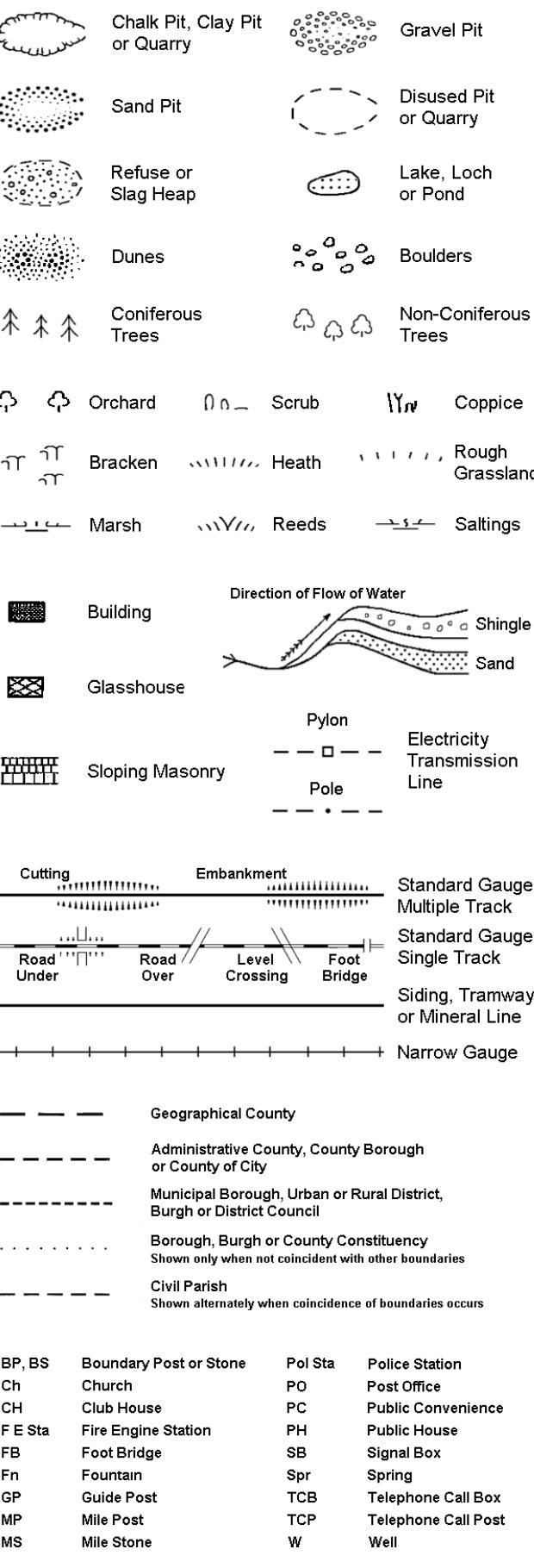


Historical Mapping Legends

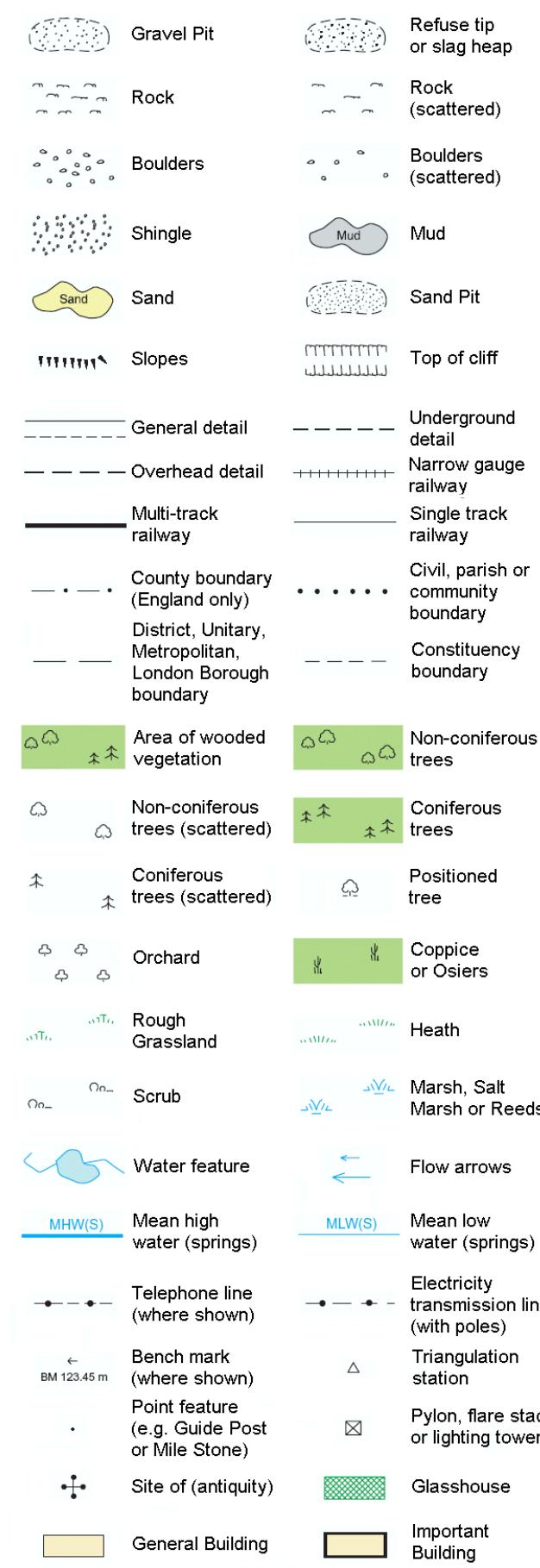
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



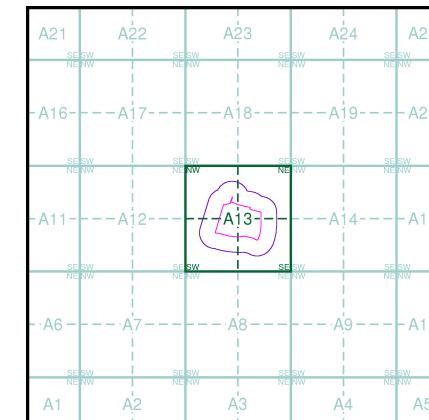
1:10,000 Raster Mapping



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:10,560	1879	3
Sussex	1:10,560	1899	4
Sussex	1:10,560	1912	5
Historical Aerial Photography	1:10,560	1947 - 1951	6
Historical Aerial Photography	1:10,560	1947	7
Ordnance Survey Plan	1:10,000	1961 - 1962	8
Ordnance Survey Plan	1:10,000	1976 - 1977	9
Brighton	1:10,000	1990	10
Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2023	14

Historical Map - Slice A



Order Details

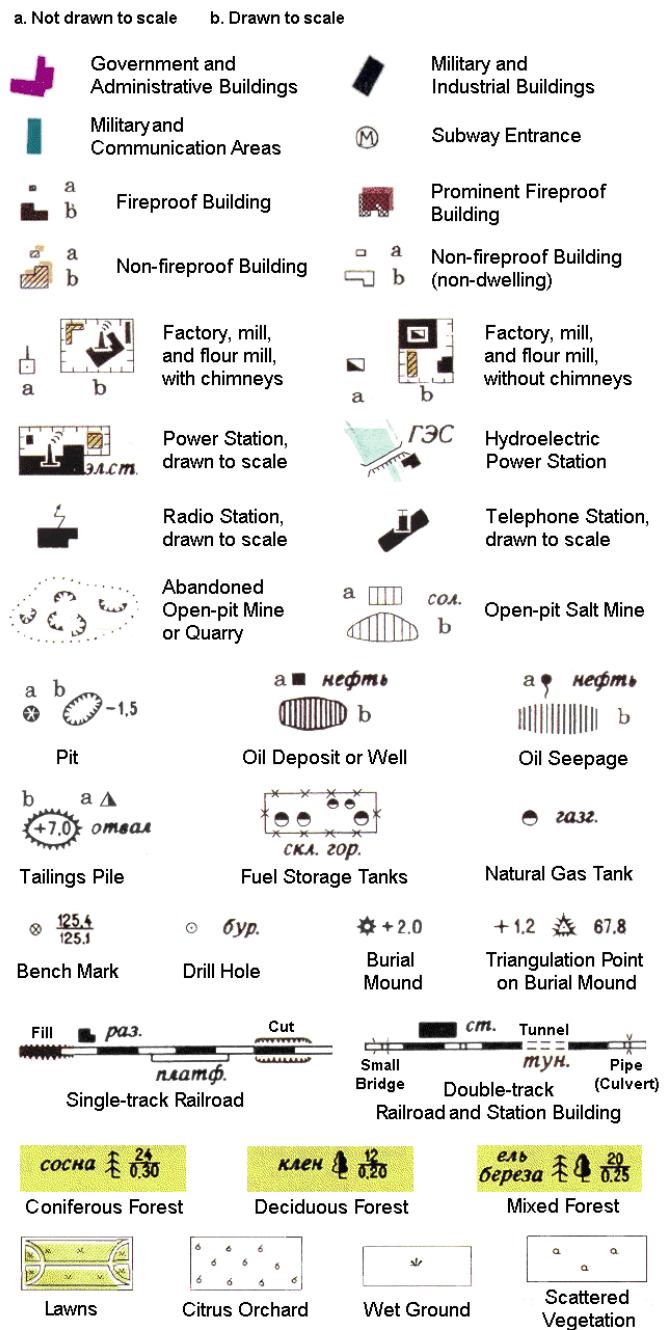
Order Number: 321564727_1_1
Customer Ref: GE22017
National Grid Reference: 521320, 113120
Slice: A
Site Area (Ha): 5.13
Search Buffer (m): 1000

Site Details

Land off, Shoreham Road, Small Dole, West Sussex

Russian Military Mapping Legends

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



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

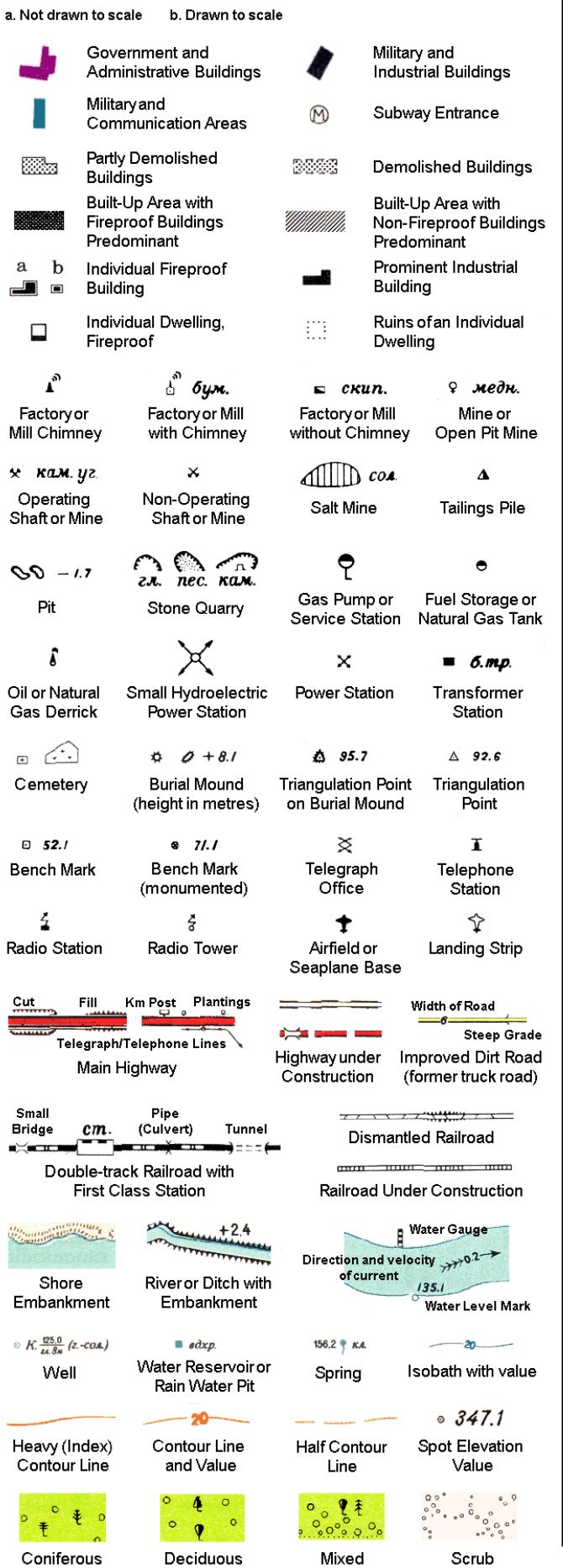
Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

12

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)	Ђ (Ђ)
Д д (D)	Л л (L)	У у (U)	Ѡ (Ѡ)
Е е (E)	М м (M)	Ф ф (F)	Ѡ (Ѡ)
Ѐ є (YO)	Ҥ Ҥ (N)	Х х (KH)	Ѡ є (E)
Ӯ Ӯ (ZH)	Ӯ Ӯ (O)	ұ ұ (TS)	Ѡ ѿ (YU or IU)
ұ ұ (ZH)	ұ ұ (O)	ұ ұ (TS)	Ѡ ѿ (YA or IA)

1:25,000 mapping



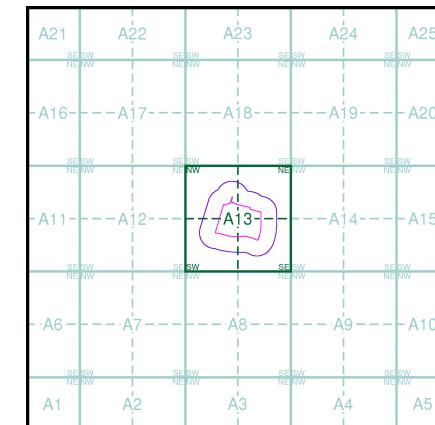
Key to Numbers on Mapping



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:10,560	1879	3
Sussex	1:10,560	1899	4
Sussex	1:10,560	1912	5
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Brighton	1:10,000	1990	10
Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2023	14

Russian Map - Slice A



Order Details

Order Number: 321564727_1_1

Customer Ref: GE22017

National Grid Reference: 521320, 113120

Slice: A

Site Area (Ha): 5.13

Search Buffer (m): 1000

Site Details

Land off, Shoreham Road, Small Dole, West Sussex



Geo-Environmental Sussex

Published 1879

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)

05200
1879
1:10,560

Historical Map - Slice A

A21	A22	A23	A24	A25
SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW
-A16	-A17	-A18	-A19	-A20
SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW
-A11	-A12	-A13	-A14	-A15
SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW
-A6	-A7	-A8	-A9	-A10
SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW	SE/SW NE/NW
A1	A2	A3	A4	A5



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