



General

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

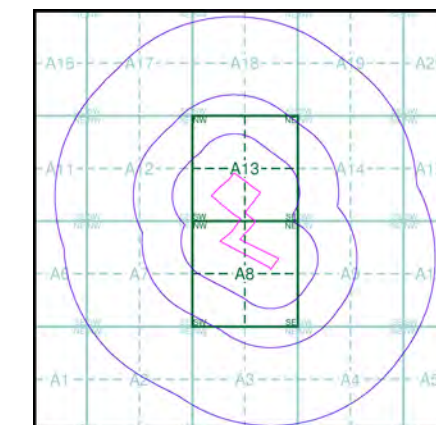
Detailed River Network Data

- | | |
|--------------------------|-------------------------------------|
| Primary River | Extended Culvert (greater than 50m) |
| Secondary River | Underground River (inferred) |
| Tertiary River | Underground River (local knowledge) |
| Canal | Downstream of High Water Mark |
| Canal Tunnel | Downstream of Seaward Extension |
| Undefined River | Not assigned River feature |
| Lake/Reservoir | |
| Offline Drainage Feature | |

Contours (height in metres)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



Order Details

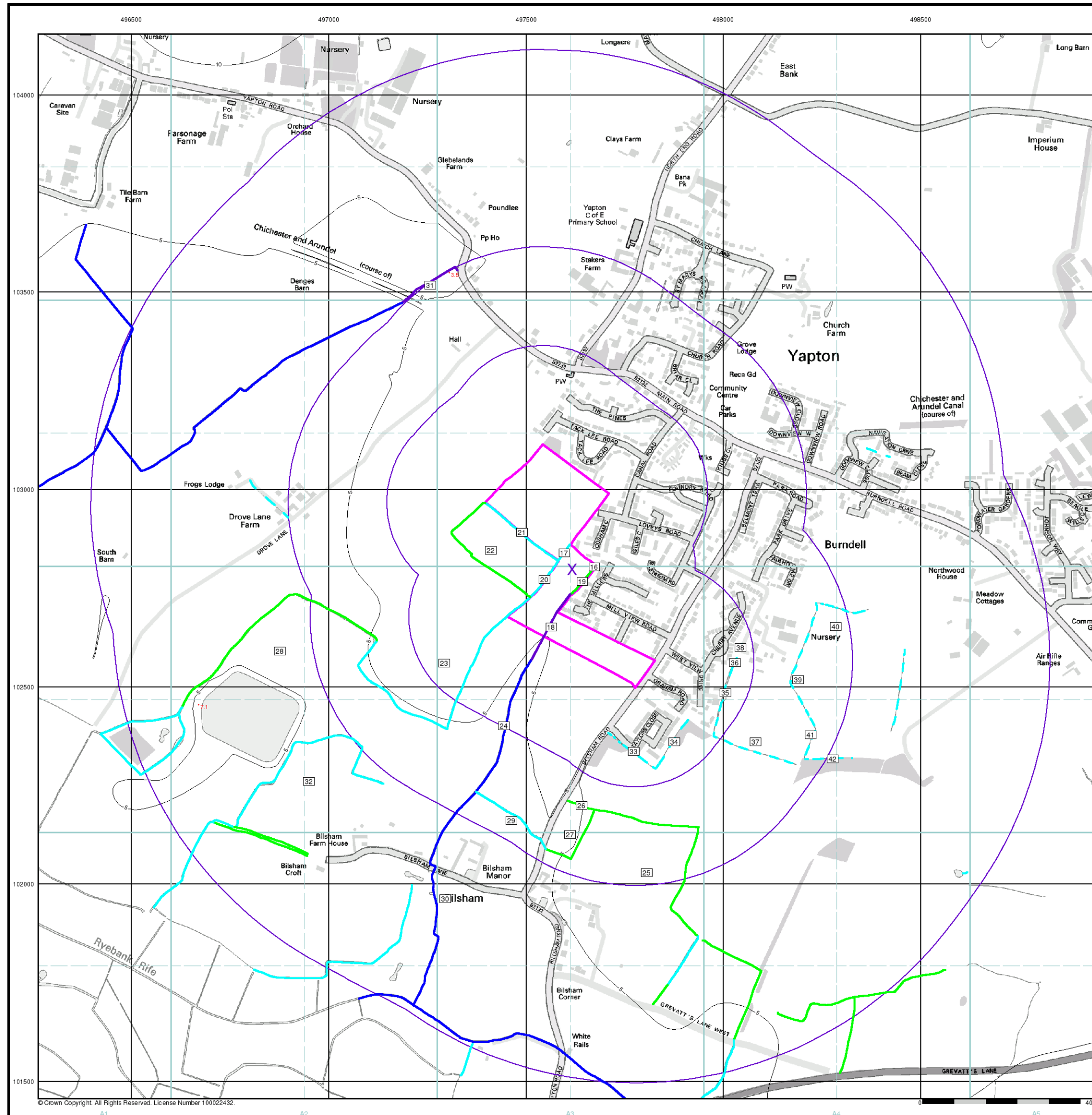
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





General

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

Risk of Flooding from Surface Water

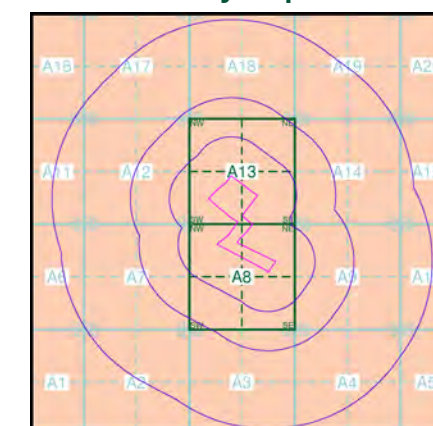
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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



Order Details

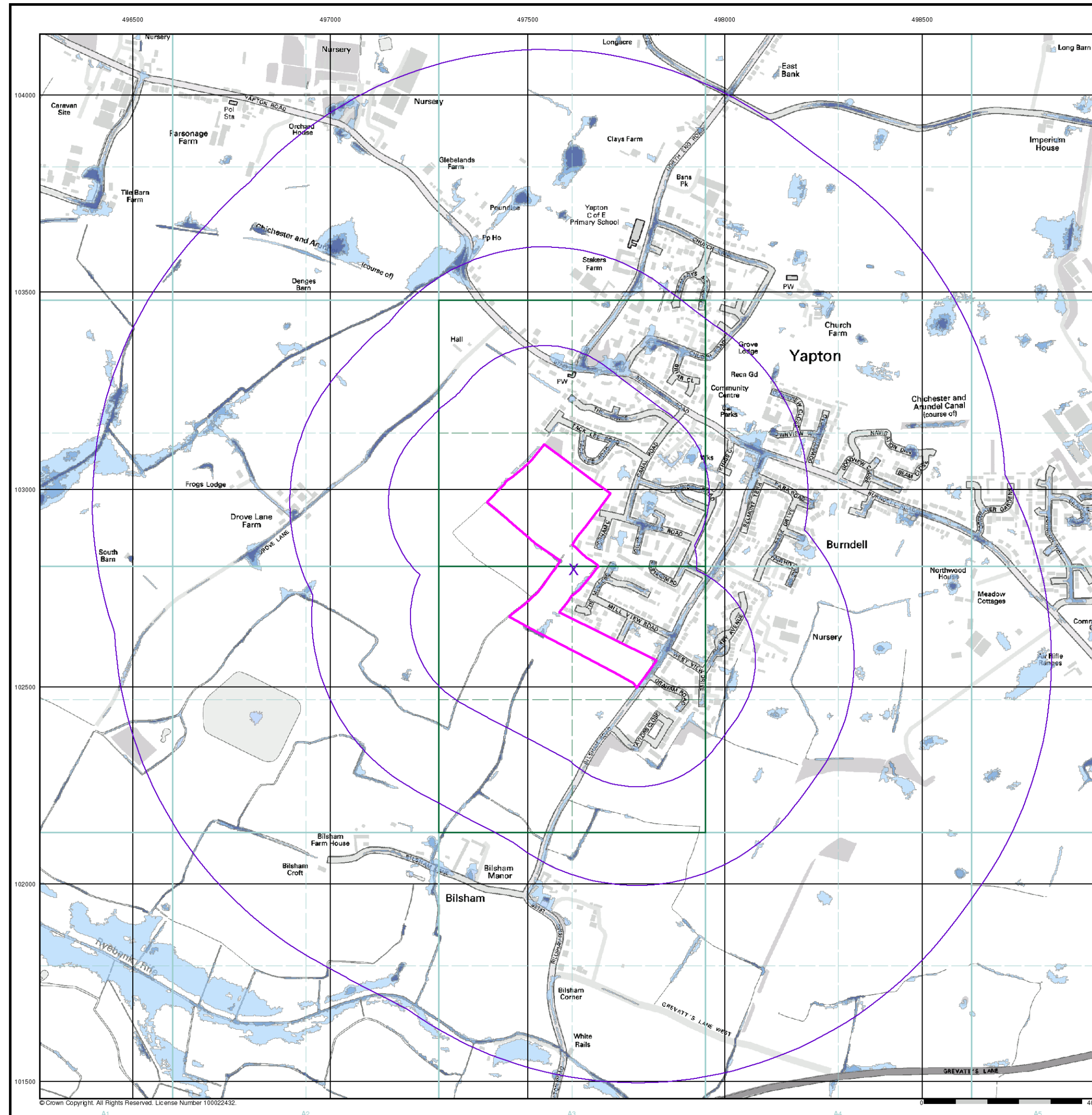
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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

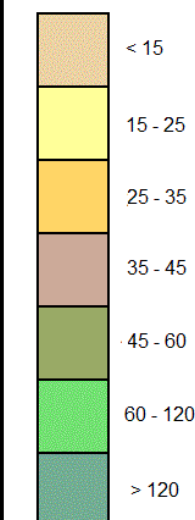


General

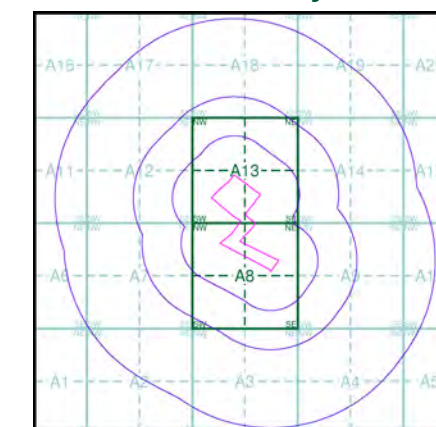
 Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

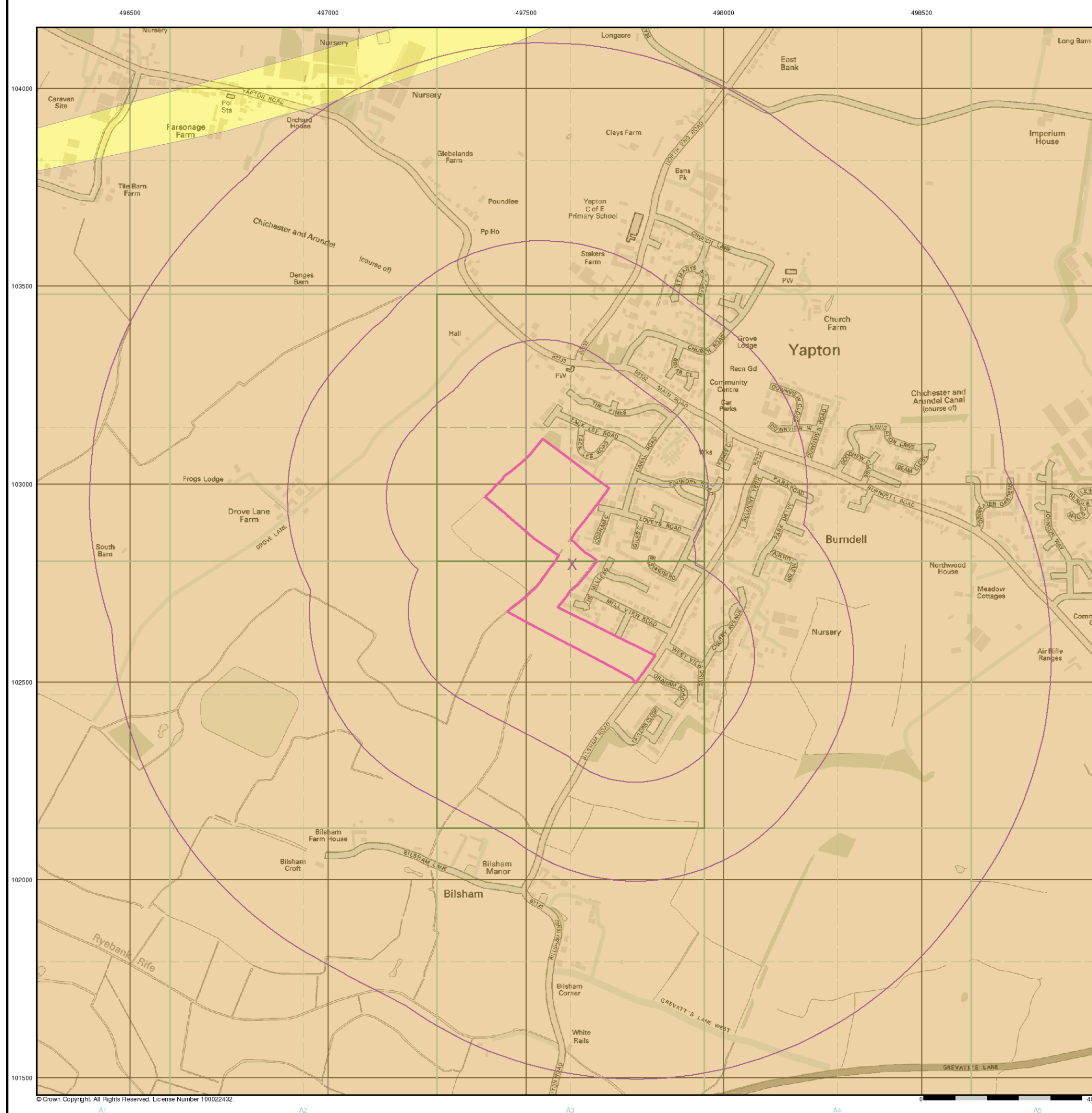
Order Details:	84657229_1_1
Customer Ref:	BRD2693
National Grid Reference:	497620, 102800
Slice:	A
Site Area (Ha):	8.6
Search Buffer (m):	1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



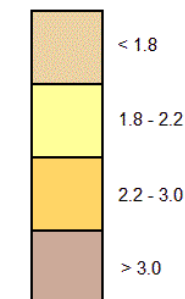


General

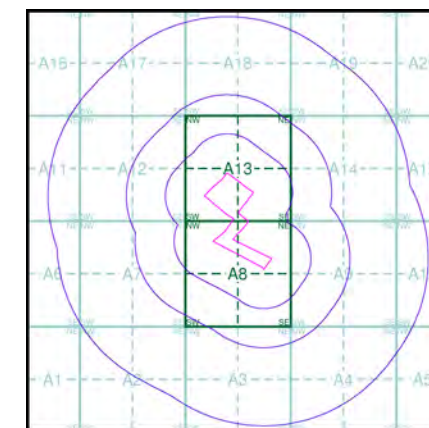
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

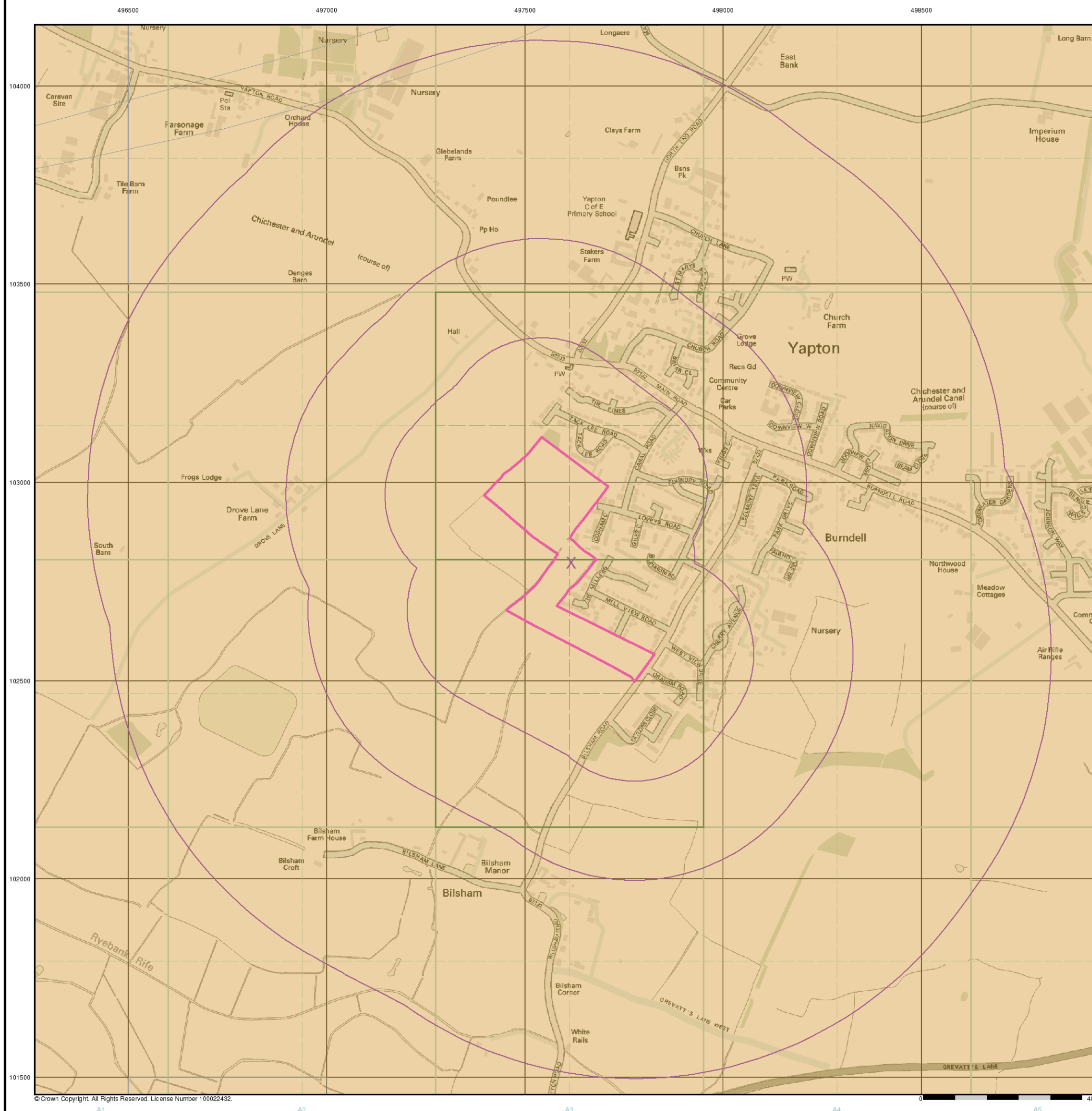
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



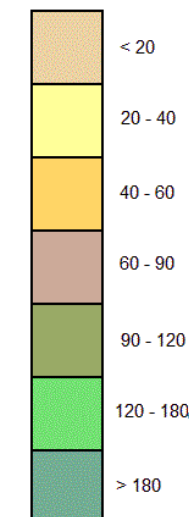


General

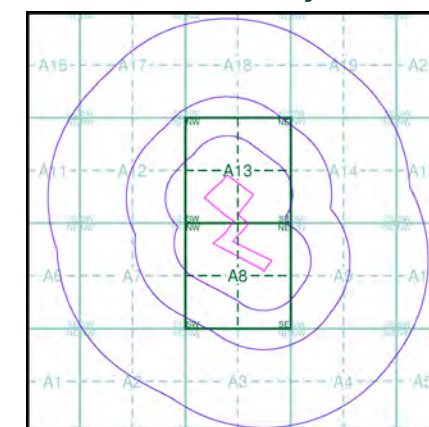
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

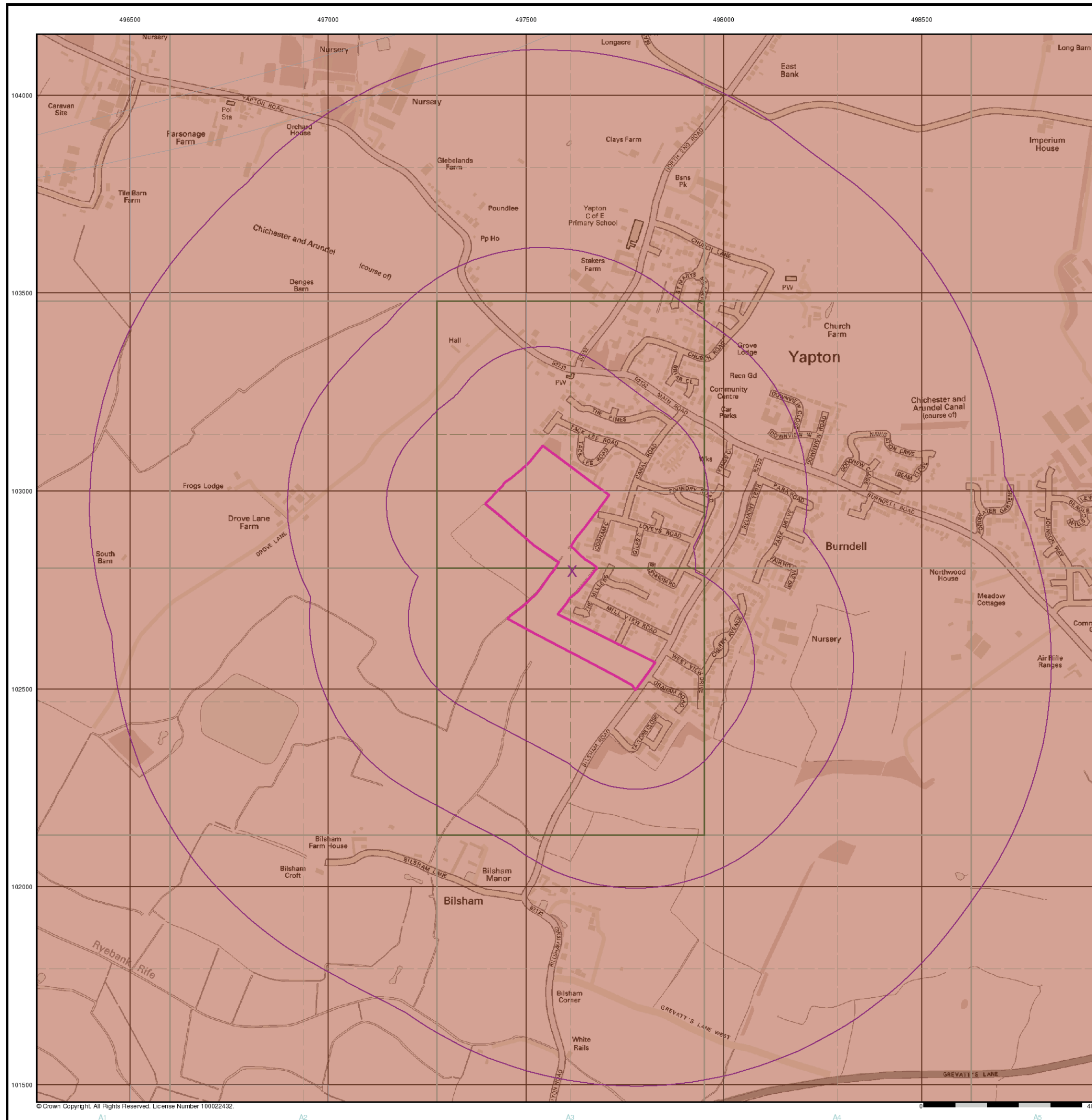
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



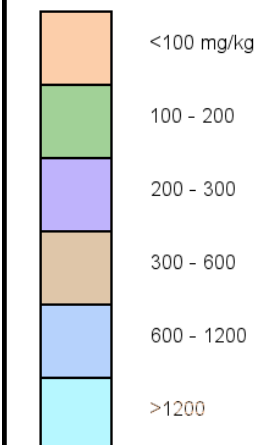


General

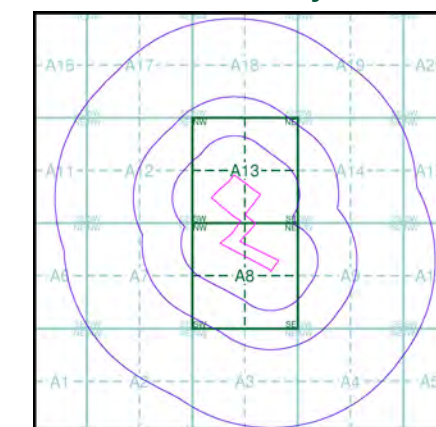
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

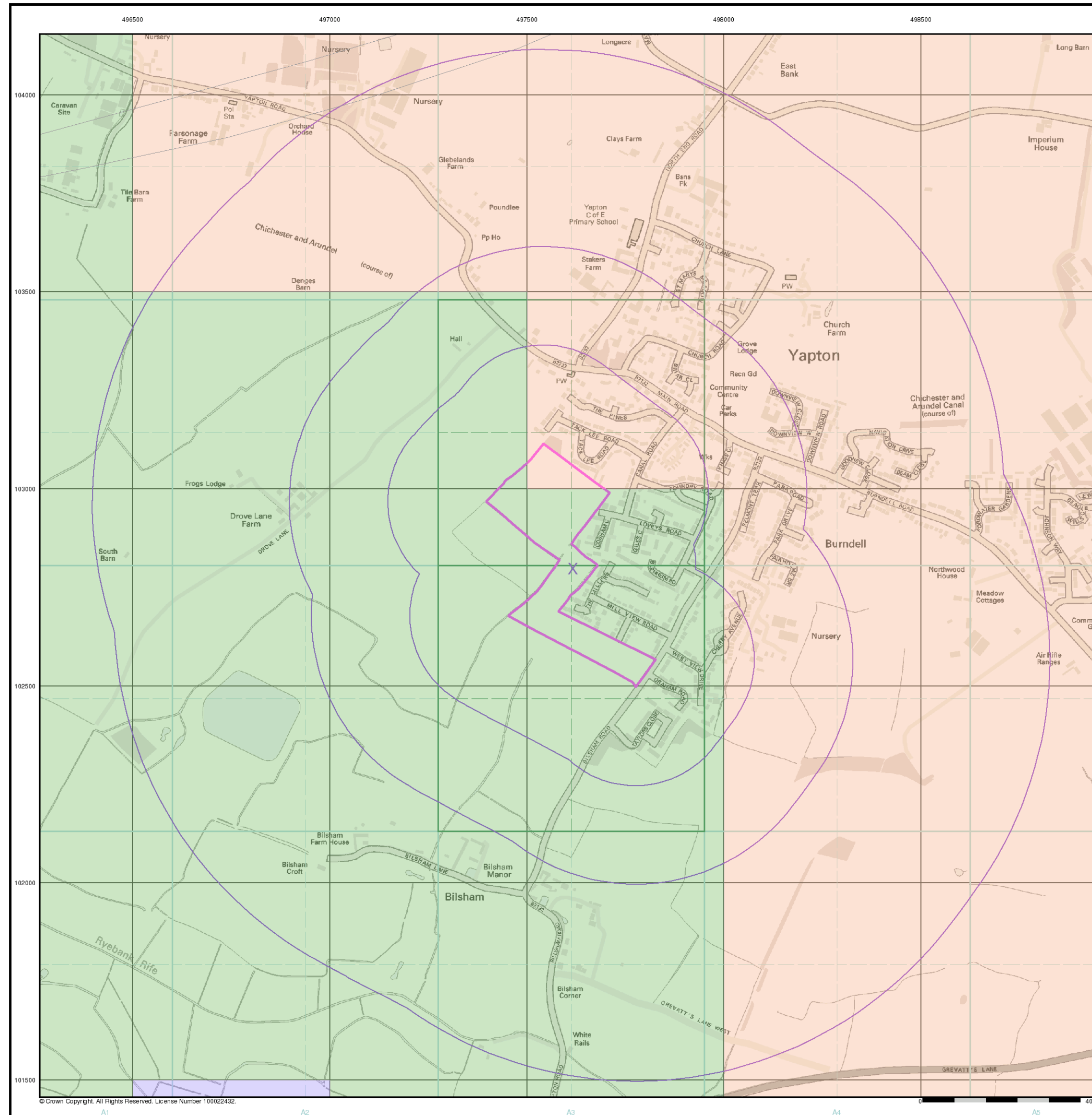
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



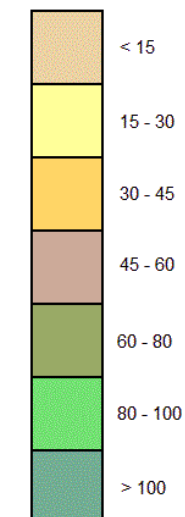


General

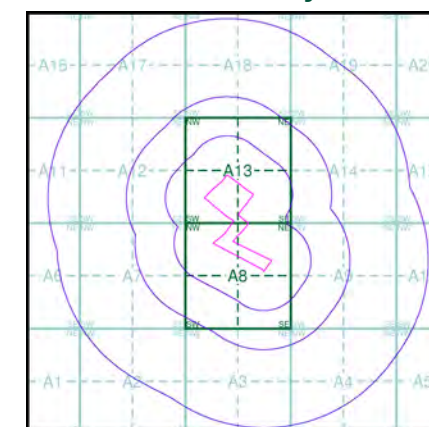
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

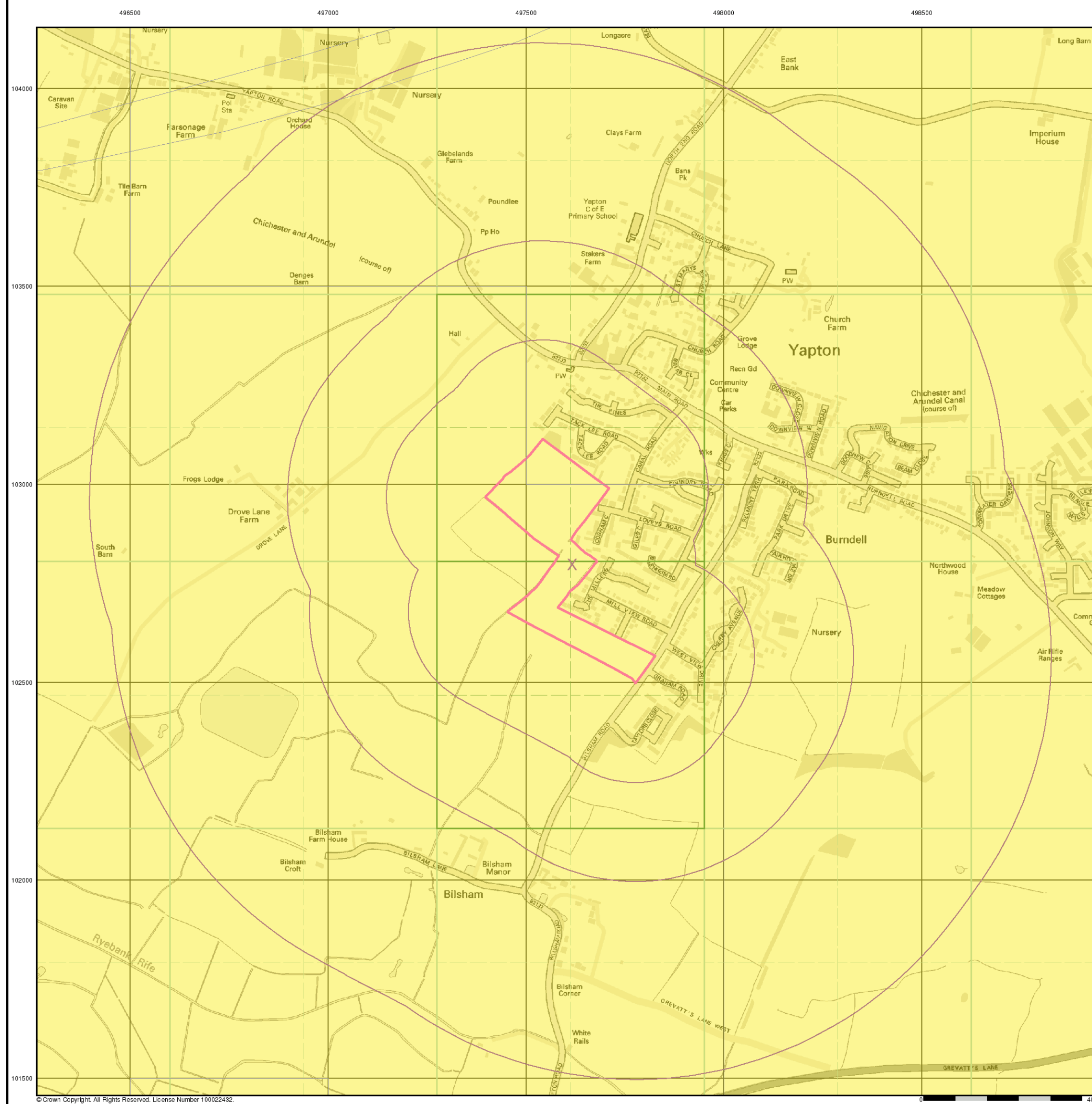
Order Details: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

84657229_1_1

Customer Reference:

BRD2693

National Grid Reference:

497620, 102800

Slice:

A

Site Area (Ha):

8.6

Search Buffer (m):

1000

Site Details:

Land at Bilsham Road

Yapton

Arundel

BN18 0HB

Client Details:

Ms A Stratford

BRD Environmental Ltd

Hawthorne Villa

1 Old Parr Road

Banbury

Oxfordshire

OX16 5HT

Prepared For:

Gleeson Developments

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	4
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	5
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	9
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	10
Data Suppliers	12
Useful Contacts	13

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, and the Environment Agency/Natural Resources Wales, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

© Copyright Peter Brett Associates LLP & DCLG 2011. All rights reserved.

The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.



Report Version v50.0

Contents

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	1	
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		1	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3		1	1	
Potentially Infilled Land (Water)	pg 3	1	4		9



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
Brine Compensation Area			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims	pg 4		1	n/a	n/a
Subsidence Investigations	pg 4		2	n/a	n/a
Motion Map Data (1:2,500)					
Motion Map (100m)	pg 5		80	n/a	n/a

Report Version v50.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Burndell Brick Yard Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157582 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (NE)	195	1	497877 103090
2	BGS Recorded Mineral Sites Site Name: Burndell Brick Field Location: , Yapton, Arundel, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157583 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (NE)	495	1	498190 103111
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				



Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Extractive Industries or Potential Excavations from 1950-1980 Use: Well First Map Published 1975 Date: Last Map Published N/A Date:	A8NE (SE)	24	-	497784 102475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (NE)	144	-	497846 103060
5	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (NE)	407	-	498102 103100
6	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A13SW (NW)	0	-	497588 102822
7	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497661 102779
8	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A8NE (SE)	2	-	497653 102770
9	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A9NW (E)	183	-	498049 102631
10	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A13NE (N)	247	-	497652 103335
11	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A9SE (SE)	668	-	498441 102303
12	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A9NE (E)	779	-	498583 102750
13	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	903	-	498671 102245
14	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A10SW (SE)	906	-	498675 102248
15	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A2SE (S)	908	-	497252 101755
16	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A10SW (SE)	913	-	498667 102209
17	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A3SW (S)	928	-	497360 101668
18	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	977	-	497033 103948
19	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17NE (NW)	980	-	497073 103975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
20	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
21	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
22	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
23	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
24	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	1	497618 102798
	Subsidence Investigations Site Investigation: 20th July 2004 Date: Root Survey: No CCTV Drain Survey: Yes Depth of Foundation: Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation: 8th October 2014 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation: Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Insurance Claims Case Date: 17th May 2007 Movement Trend: No significant movement (< 0.50mm) Indication: Damage: Category 2 - up to 5mm Classification:			-	

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Motion Map Average Velocity 0.2 Gradient (mmyear):	A8NE (SE)	4	-	497750 102608
25	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (SE)	5	-	497753 102608
26	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (N)	10	-	497633 102854
26	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (N)	11	-	497631 102858
27	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (S)	17	-	497630 102721
27	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (S)	21	-	497630 102717
28	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (S)	18	-	497624 102686
29	Motion Map Average Velocity -0.7 Gradient (mmyear):	A8NE (SE)	19	-	497647 102734
30	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	19	-	497655 102886
30	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	22	-	497659 102885
30	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	22	-	497656 102882
31	Motion Map Average Velocity 0.9 Gradient (mmyear):	A13SW (N)	20	-	497601 103095
31	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SW (N)	25	-	497605 103099
31	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SW (N)	28	-	497605 103103
32	Motion Map Average Velocity -0.8 Gradient (mmyear):	A13SE (NE)	27	-	497730 102972
33	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	28	-	497853 102556
34	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	29	-	497691 102835
34	Motion Map Average Velocity -0.3 Gradient (mmyear):	A13SE (NE)	31	-	497686 102840
34	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	32	-	497690 102839
35	Motion Map Average Velocity 0.3 Gradient (mmyear):	A8NE (SE)	31	-	497770 102629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	32	-	497773 102628
35	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (SE)	35	-	497770 102633
35	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	36	-	497772 102633
36	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	33	-	497681 102897
36	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	33	-	497679 102894
37	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	33	-	497671 102883
38	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	41	-	497703 102840
38	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	45	-	497704 102844
38	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	48	-	497705 102848
39	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (N)	41	-	497707 103042
39	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (N)	42	-	497710 103041
40	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	44	-	497754 102988
41	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	53	-	497722 102918
41	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	55	-	497727 102920
41	Motion Map Average Velocity 0.6 Gradient (mmyear):	A13SE (NE)	56	-	497725 102917
41	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	56	-	497723 102913
41	Motion Map Average Velocity 0.6 Gradient (mmyear):	A13SE (NE)	58	-	497727 102916
41	Motion Map Average Velocity 0.4 Gradient (mmyear):	A13SE (NE)	59	-	497726 102913
42	Motion Map Average Velocity -0.3 Gradient (mmyear):	A8NE (SE)	54	-	497774 102652
43	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	55	-	497705 102856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	56	-	497700 102861
43	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	57	-	497702 102861
43	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	59	-	497706 102860
43	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	60	-	497710 102859
43	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	62	-	497705 102864
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	63	-	497709 102863
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	64	-	497711 102863
43	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	66	-	497706 102868
43	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	66	-	497715 102862
43	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	67	-	497710 102867
43	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	68	-	497711 102867
43	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	70	-	497716 102866
44	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	57	-	497721 102910
44	Motion Map Average Velocity 0.0 Gradient (mmyear):	A13SE (NE)	57	-	497717 102906
44	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	59	-	497720 102906
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497725 102909
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497723 102905
44	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	61	-	497719 102902
44	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	64	-	497722 102901
45	Motion Map Average Velocity 0.4 Gradient (mmyear):	A8NE (SE)	58	-	497844 102622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Motion Map Average Velocity 0.5 Gradient (mmyear):	A8NE (SE)	61	-	497842 102627
46	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	60	-	497680 102711
46	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	60	-	497678 102708
47	Motion Map Average Velocity 0.2 Gradient (mmyear):	A13SE (NE)	60	-	497701 102865
47	Motion Map Average Velocity 0.3 Gradient (mmyear):	A13SE (NE)	64	-	497703 102868
48	Motion Map Average Velocity 0.1 Gradient (mmyear):	A8NE (SE)	62	-	497880 102599
48	Motion Map Average Velocity -0.1 Gradient (mmyear):	A8NE (SE)	64	-	497879 102603
48	Motion Map Average Velocity 0.1 Gradient (mmyear):	A8NE (SE)	65	-	497884 102598
49	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	66	-	497714 102887
49	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	67	-	497713 102883
49	Motion Map Average Velocity 0.1 Gradient (mmyear):	A13SE (NE)	68	-	497717 102886
49	Motion Map Average Velocity -0.1 Gradient (mmyear):	A13SE (NE)	70	-	497716 102882
49	Motion Map Average Velocity -0.6 Gradient (mmyear):	A13SE (NE)	72	-	497716 102878
49	Motion Map Average Velocity -0.2 Gradient (mmyear):	A13SE (NE)	72	-	497716 102878
50	Motion Map Average Velocity -1.1 Gradient (mmyear):	A8NE (SE)	83	-	497896 102611
50	Motion Map Average Velocity -0.8 Gradient (mmyear):	A8NE (SE)	86	-	497897 102615
50	Motion Map Average Velocity -1.2 Gradient (mmyear):	A8NE (SE)	86	-	497901 102611
50	Motion Map Average Velocity -1.1 Gradient (mmyear):	A8NE (SE)	89	-	497902 102615
51	Motion Map Average Velocity 0.6 Gradient (mmyear):	A8NE (SE)	89	-	497915 102576
51	Motion Map Average Velocity 0.2 Gradient (mmyear):	A8NE (SE)	90	-	497916 102580

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SU9702	1975
Ordnance Survey Plan	SU9702	1975
Ordnance Survey Plan	SU9703	1975

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Sussex	074_00	1879
Sussex	062_00	1880
Sussex	062_SE	1899
Sussex	074_NE	1899
Sussex	062_SE	1913
Sussex	074_NE	1913
Sussex	074_NE	1940
Sussex	062_SE	1951
Ordnance Survey Plan	SU90SE	1962
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SU90SE	1992

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Man Made Mining Cavities Peter Brett Associates	October 2015	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2015	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2016	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Subsidence Insurance Claims SP Property Services	February 2016	Quarterly
Subsidence Investigations CET Structures Ltd	February 2016	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenham	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Historical Land Use Information (1:2,500)

General

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

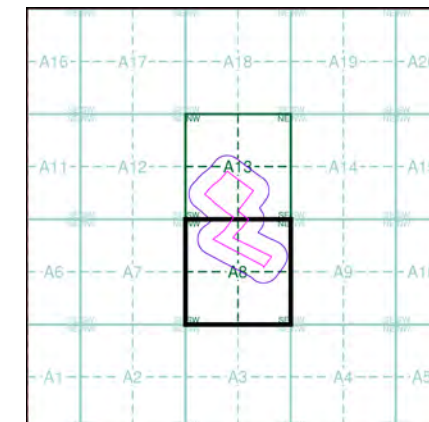
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A8



Order Details

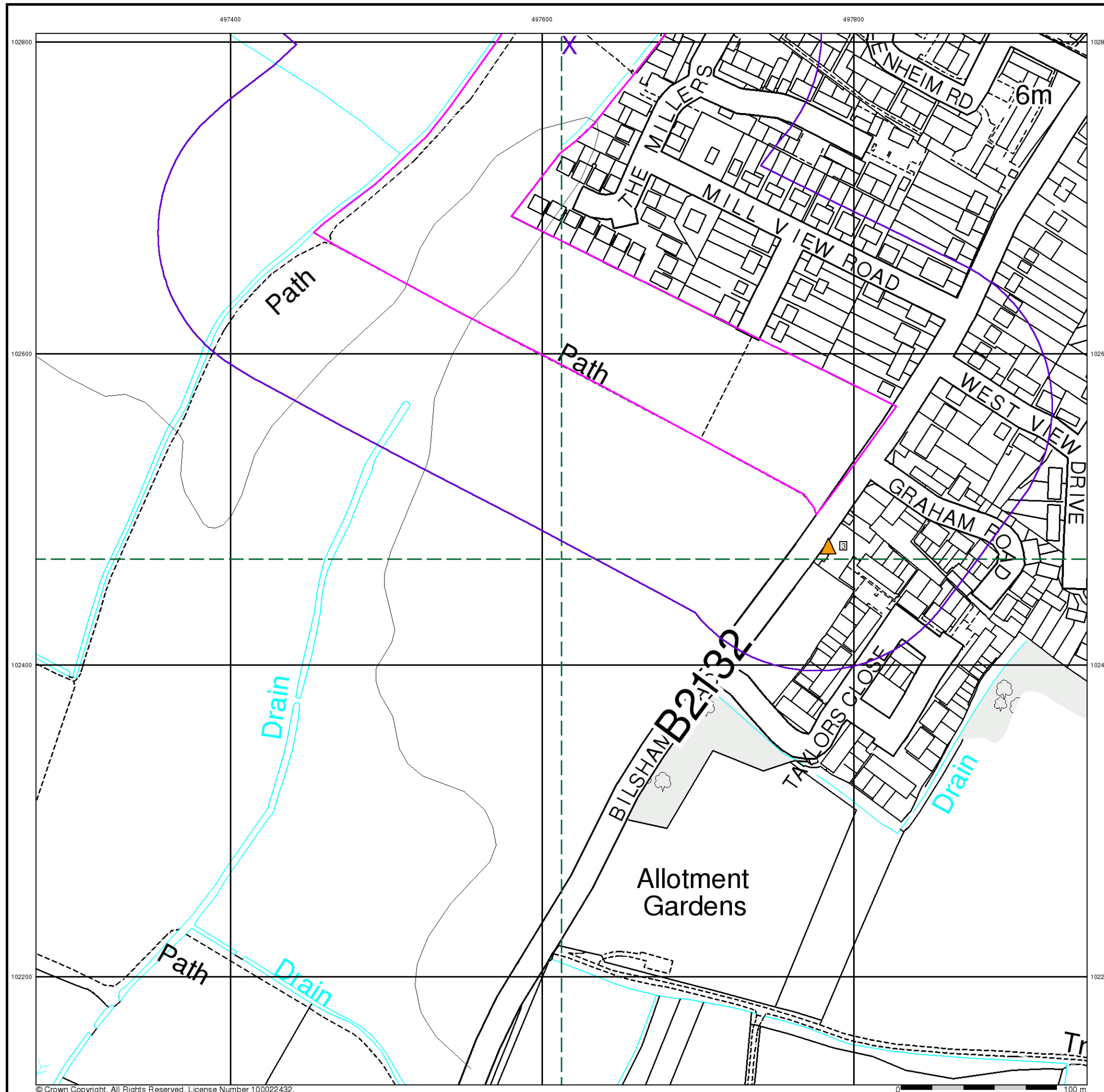
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Historical Land Use Information (1:2,500)

General

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

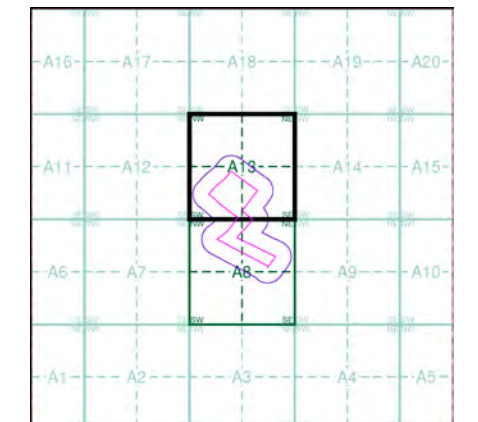
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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

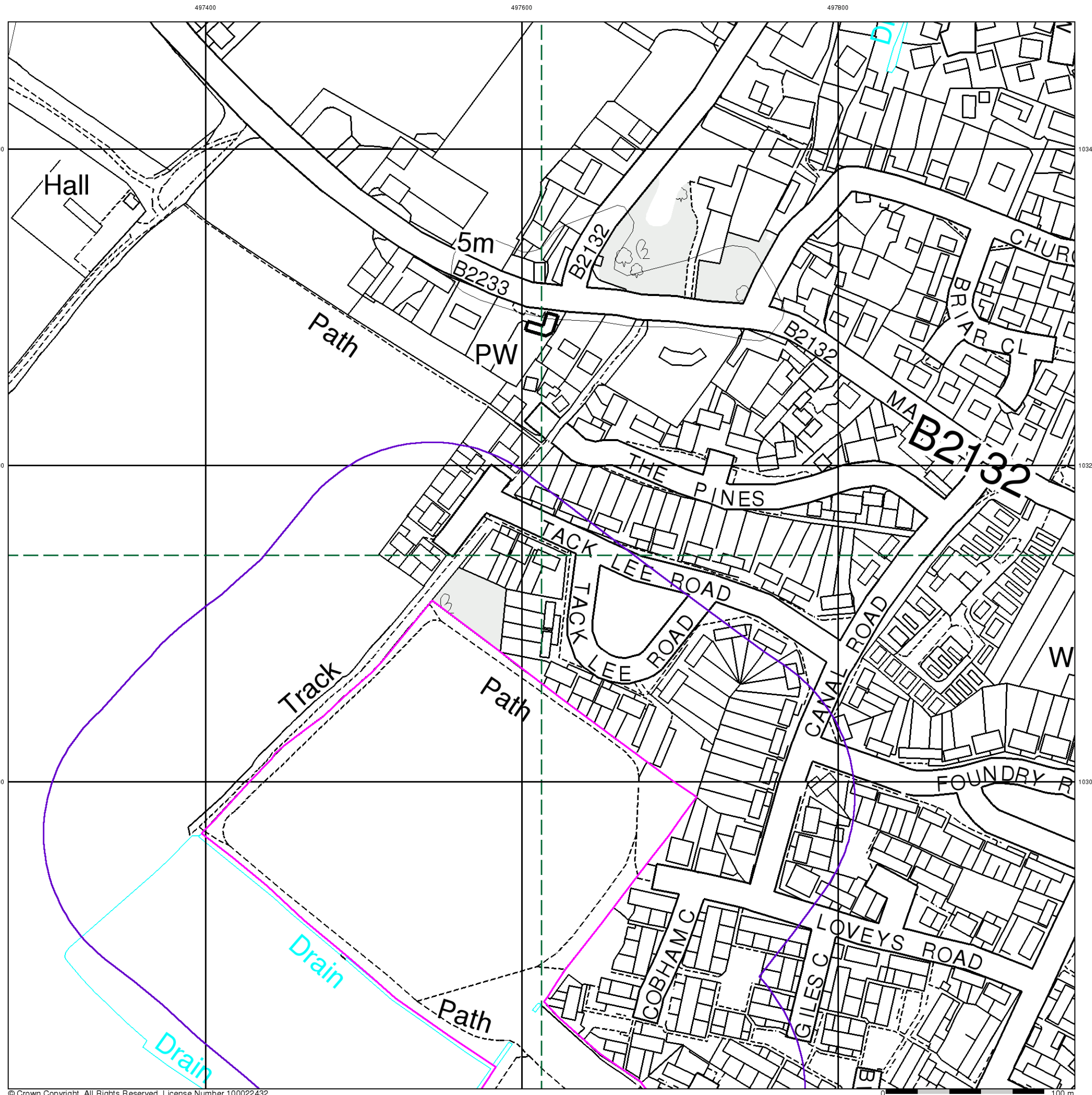
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Motion Map Data (1:2,500)

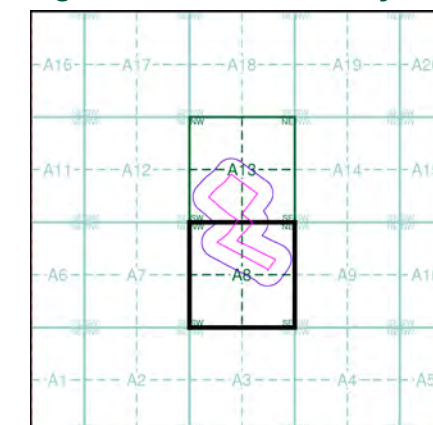
General

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

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A8



Order Details

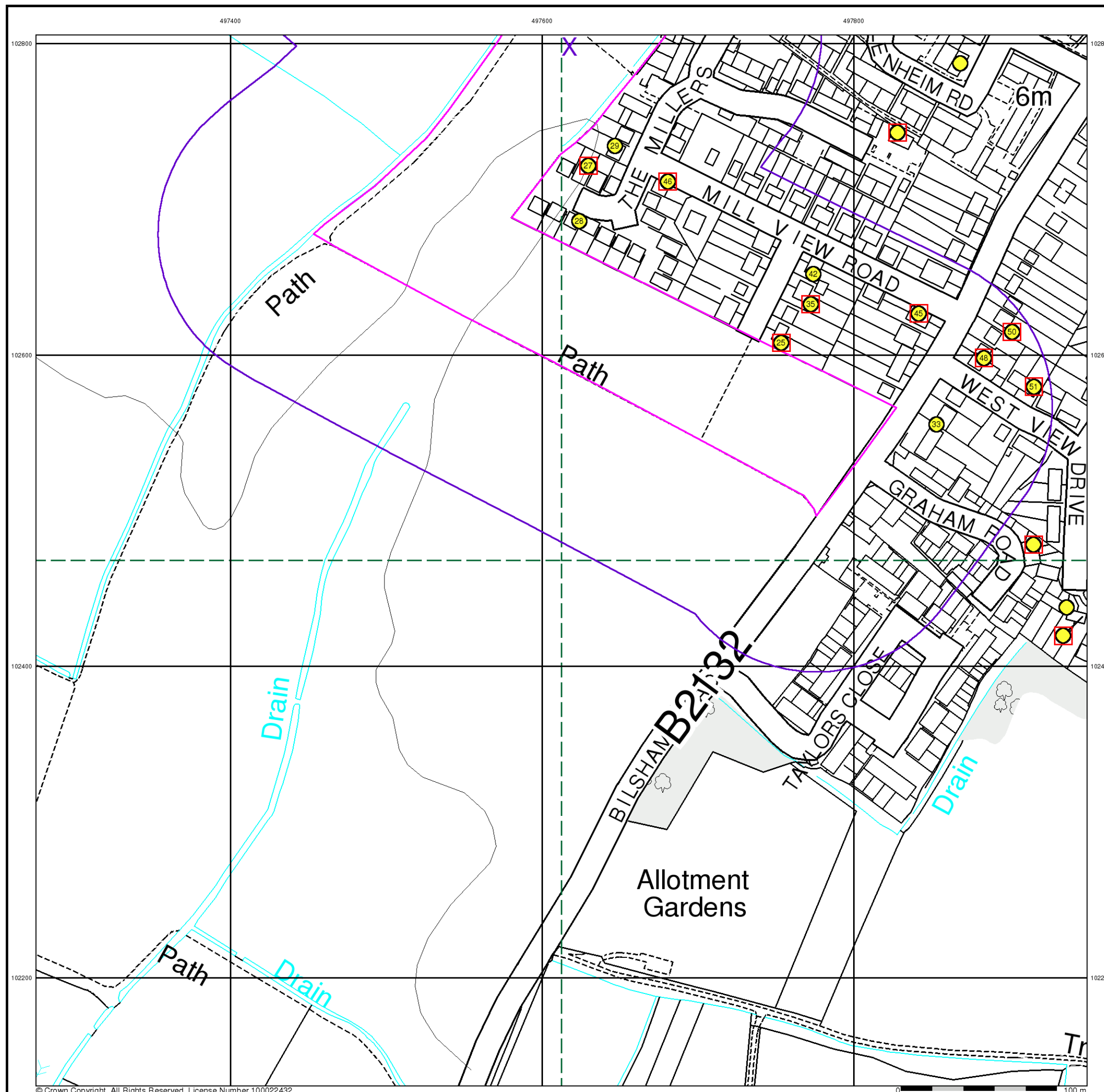
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Motion Map Data (1:2,500)

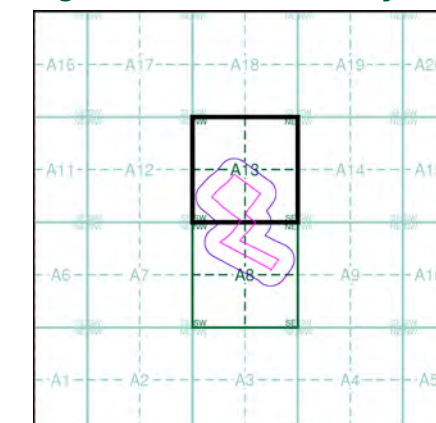
General

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

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A13



Order Details

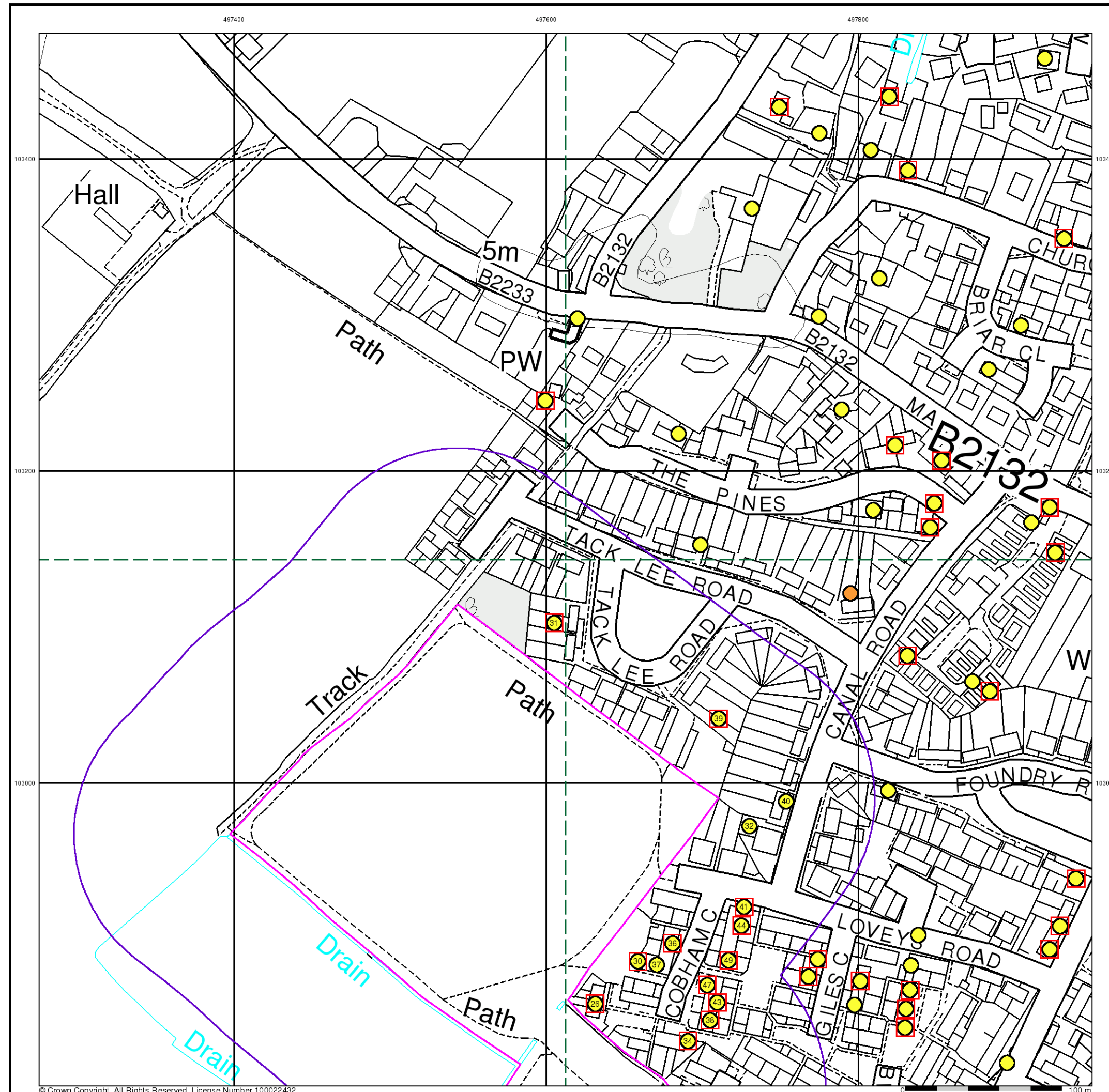
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Plot Buffer (m): 100

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Historical Land Use Information (1:10,000)

General

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

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining and Quarrying General			
Mining of Coal & Lignite			
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits			

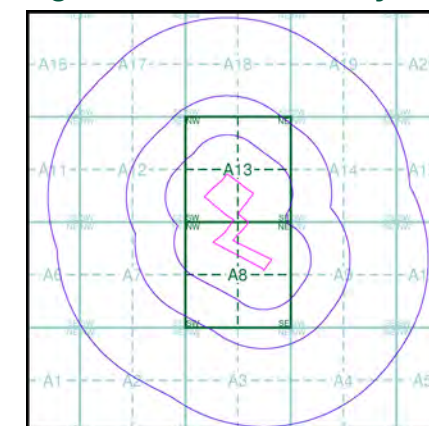
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)			
Former Marsh			

Mining Data

- Potential Mining Area
BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

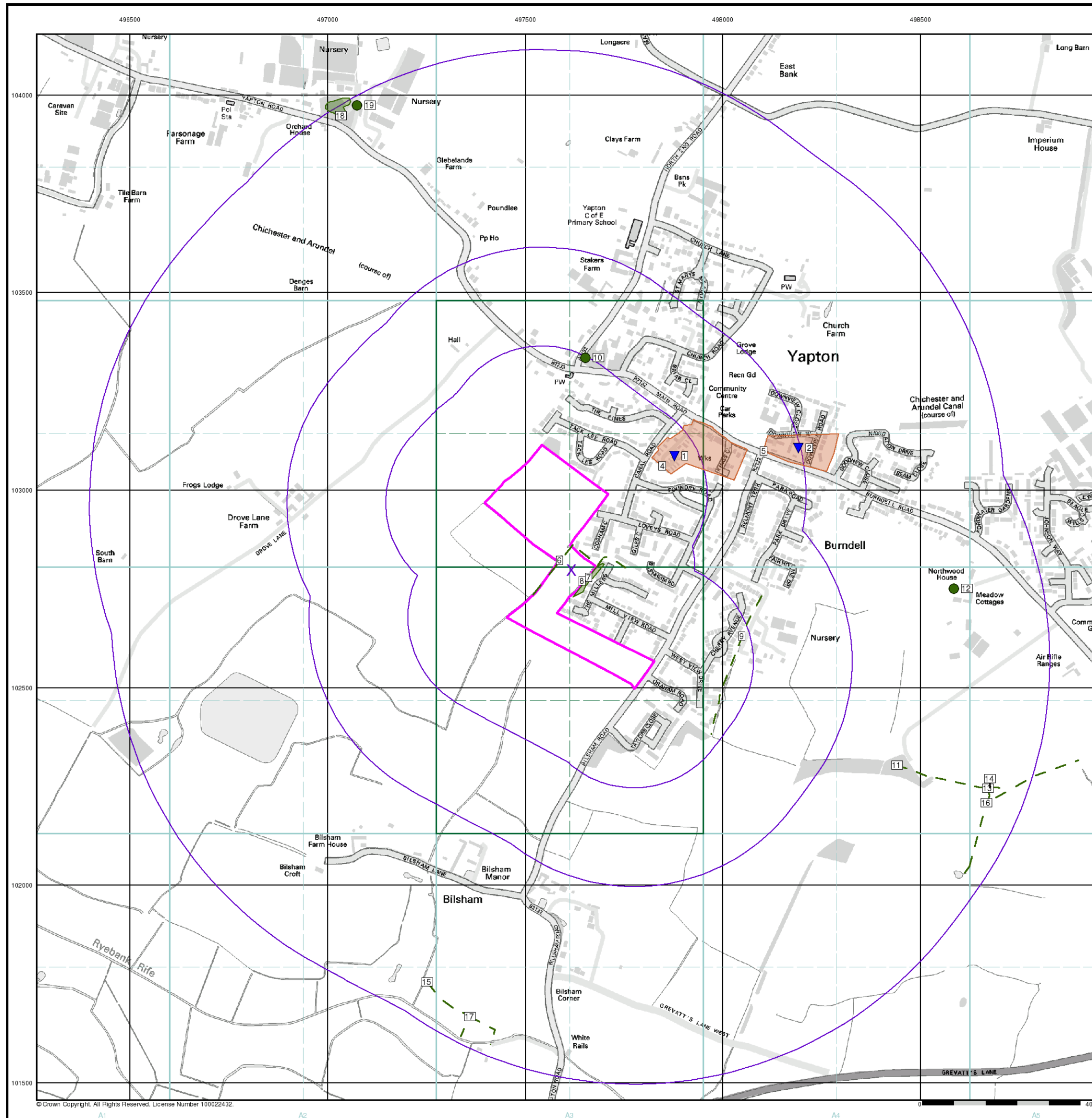
Order Number: 84657229_1_1
Customer Ref: BRD2693
National Grid Reference: 497620, 102800
Slice: A
Site Area (Ha): 8.6
Search Buffer (m): 1000

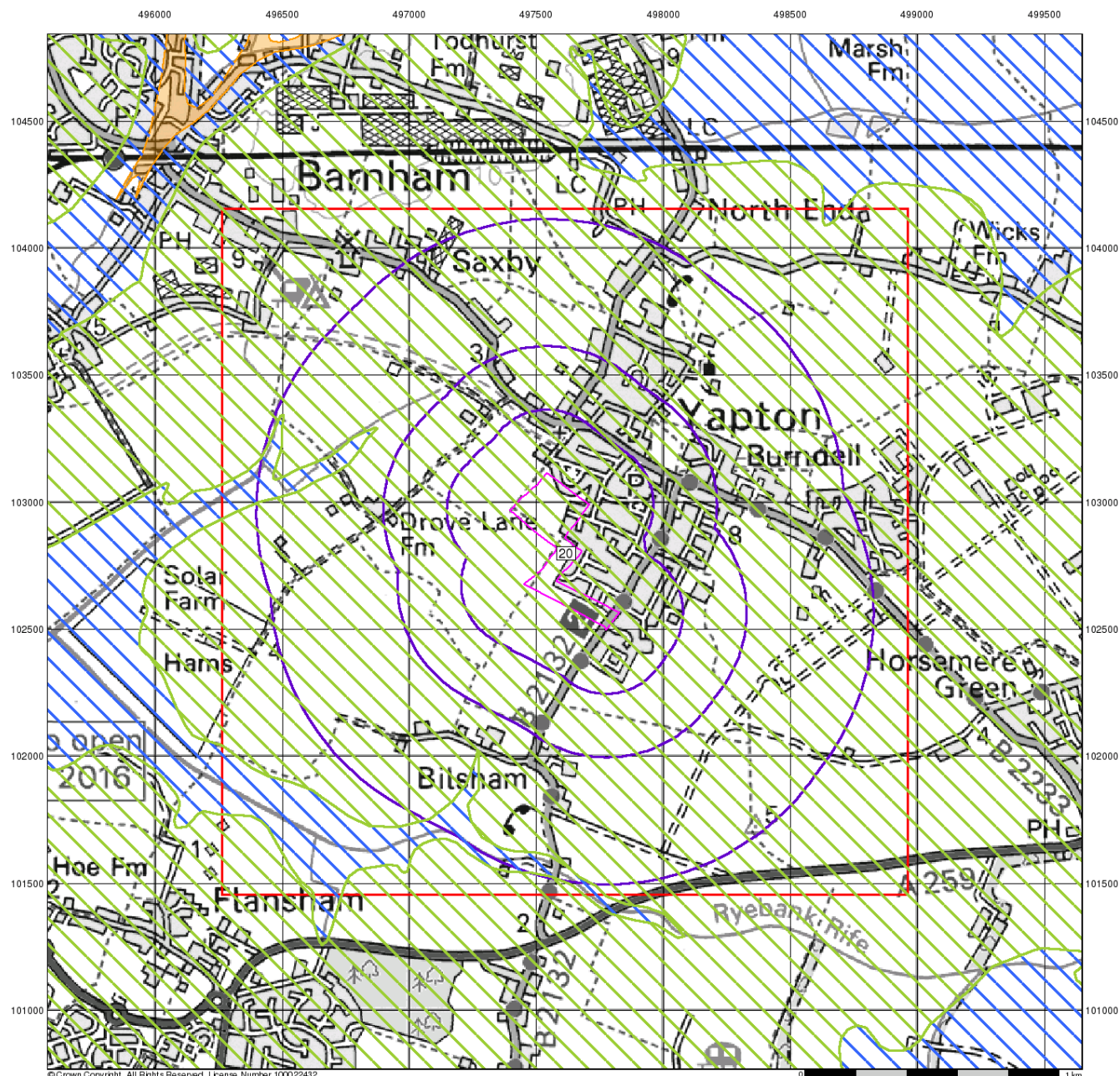
Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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





Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

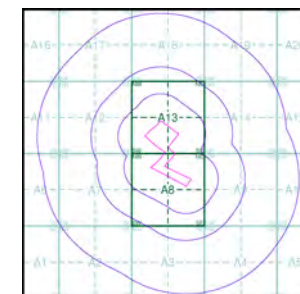
Potential for Collapsible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- | | Point | Polygon |
|-------------------------------|-------|---------|
| Brine Pumping Related Feature | | |
| Salt Mining Related Feature | | |

Mining and Ground Stability - Slice A



Order Details

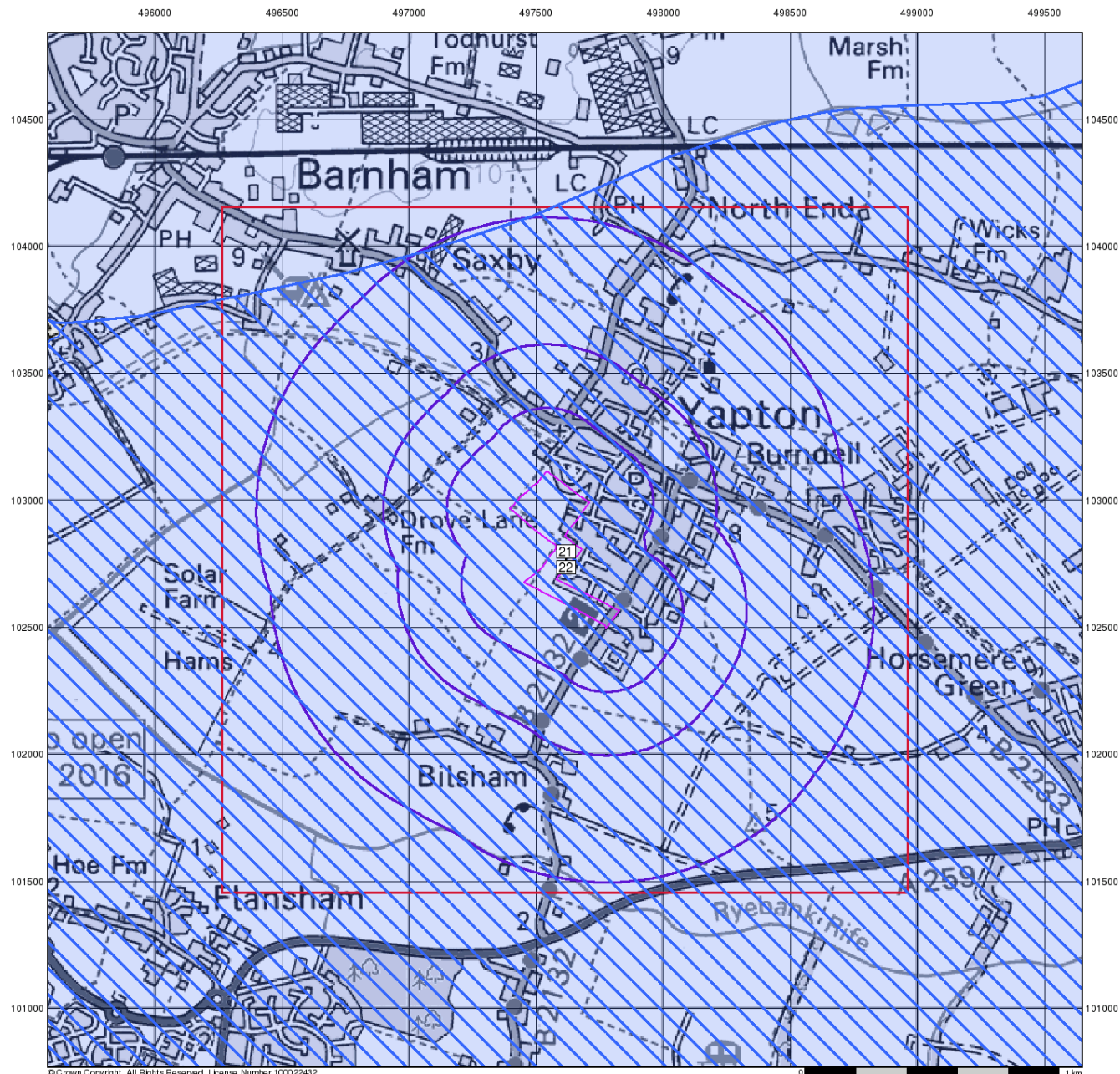
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



Ground Stability Data (1:50,000)

General

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

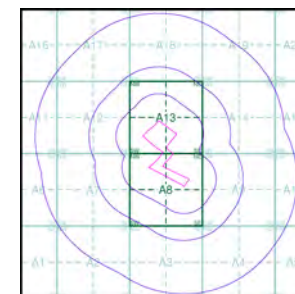
Potential for Landslide Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A



Order Details

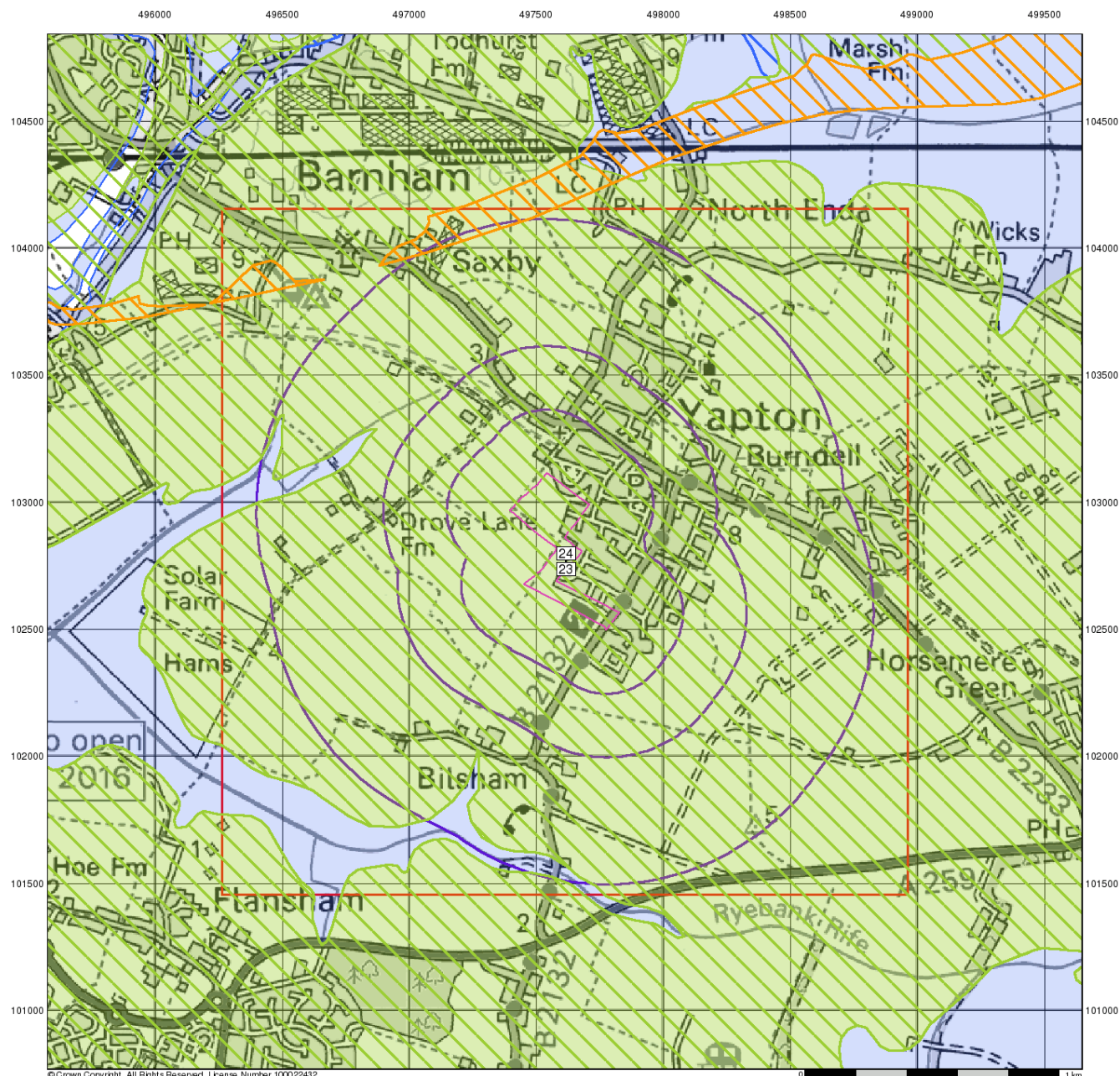
Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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



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



Ground Stability Data (1:50,000)

General

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

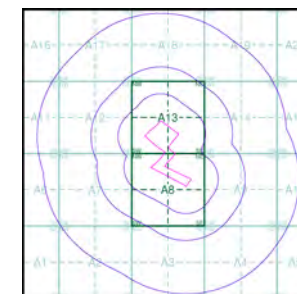
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 84657229_1_1
 Customer Ref: BRD2693
 National Grid Reference: 497620, 102800
 Slice: A
 Site Area (Ha): 8.6
 Search Buffer (m): 1000

Site Details

Land at Bilsham Road, Yapton, Arundel, BN18 0HB



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