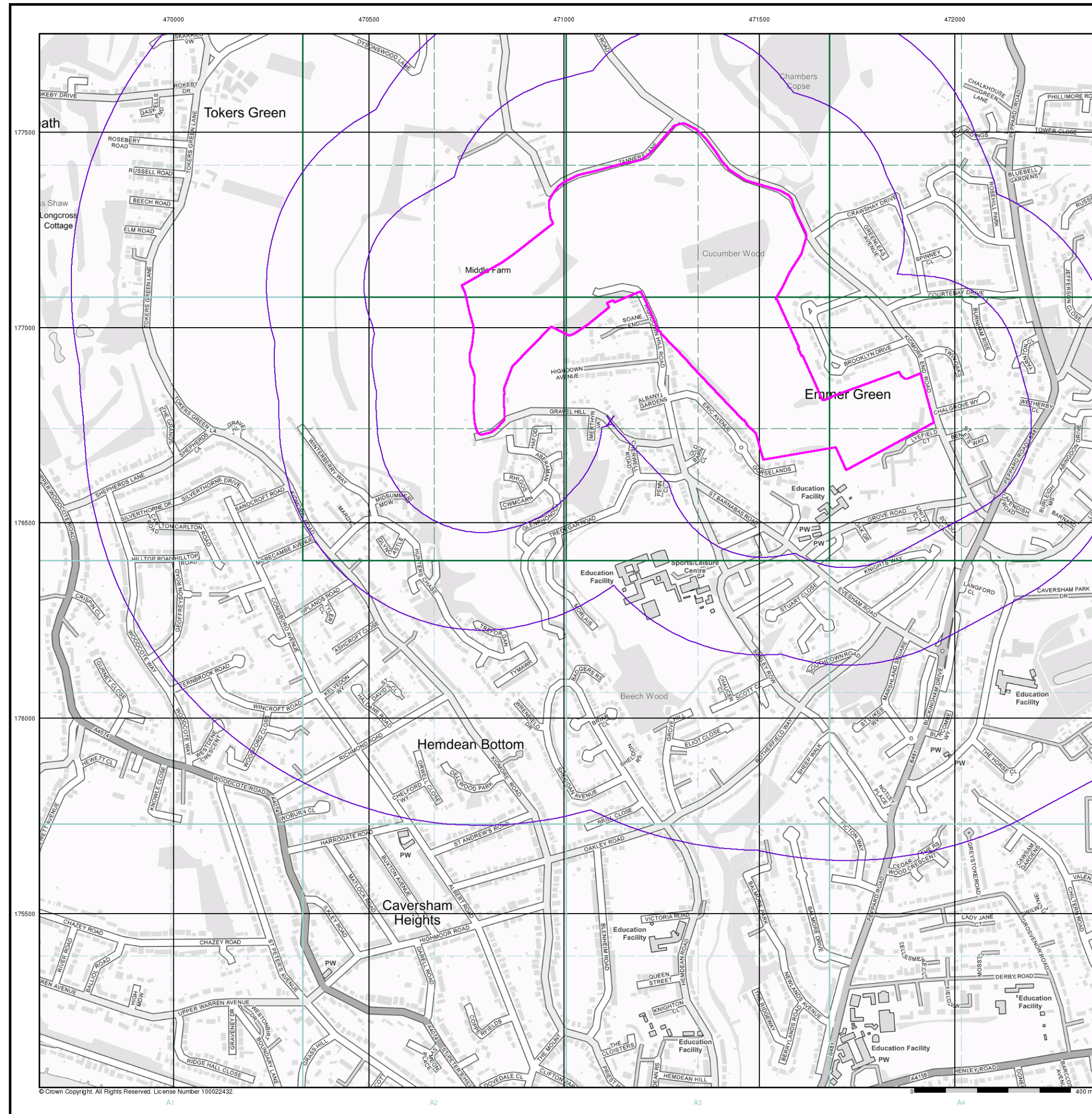




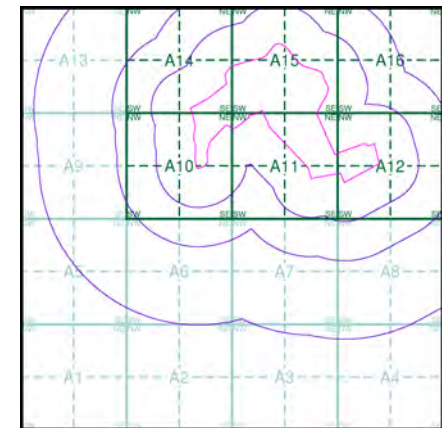
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number: 191585181_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Search Buffer (m): 1000

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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



General

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

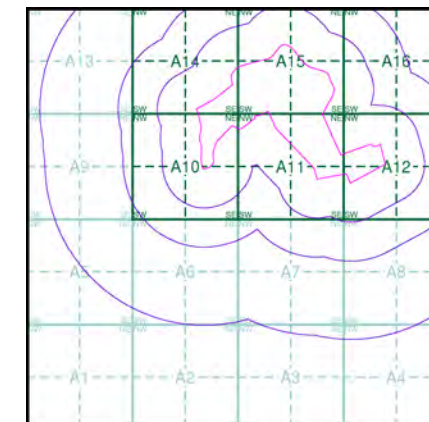
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

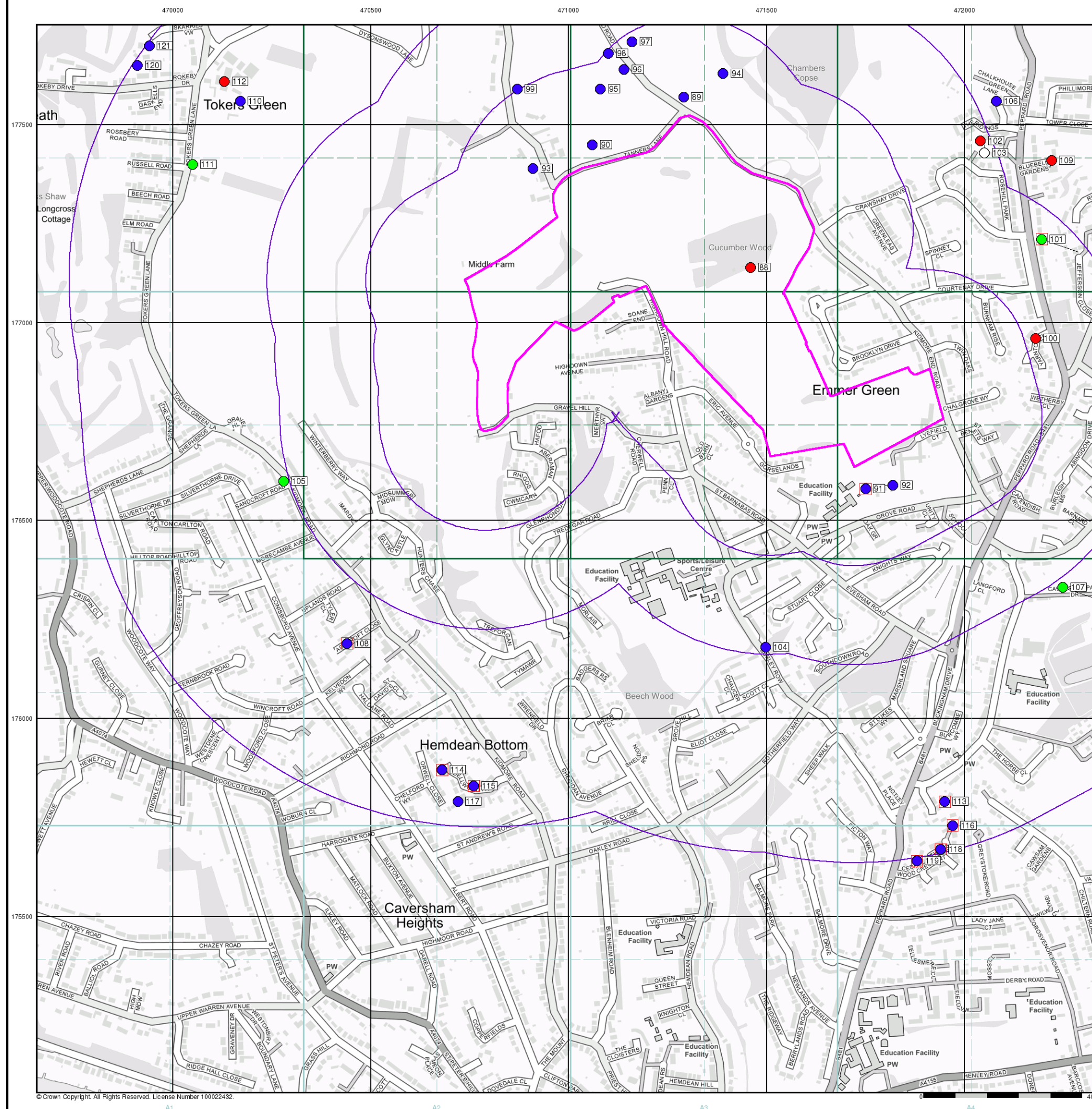
Order Number: 191585181_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Search Buffer (m): 1000

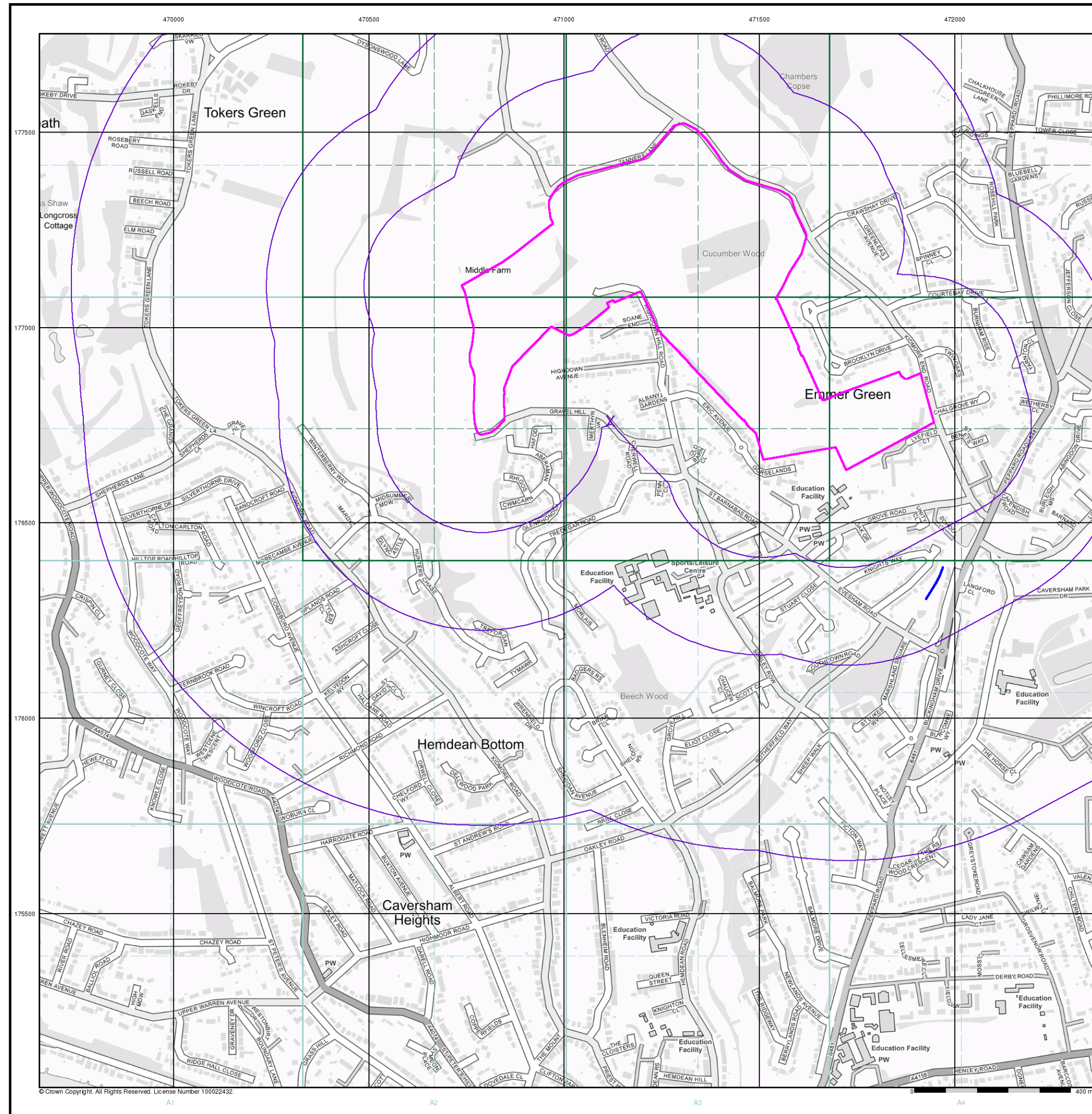
Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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





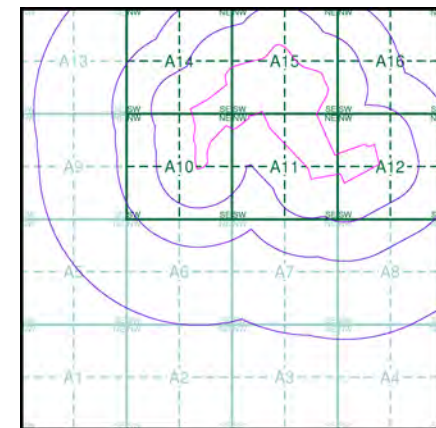
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

Order Number: 191585181_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Search Buffer (m): 1000

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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



APPENDIX 3
MINING AND GROUND STABILITY DATASHEETS



Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

192365557_1_1

Customer Reference:

12112

National Grid Reference:

471120, 176760

Slice:

A

Site Area (Ha):

44.51

Search Buffer (m):

1000

Site Details:

Reading Golf Club, 17
Kidmore End Road
Emmer Green
READING
RG4 8SQ

Client Details:

Mr P Johnson
Ground & Environmental Services Ltd
Unit 2, Montpelier Business Park
Dencora Way
Ashford
Kent
TN23 4FG



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)	10
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)	12
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)	15
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.	
Historical Map List	18
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	20
Data Suppliers	21
Useful Contacts	22

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The brine subsidence data relating to the Droitwich 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.

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Report Version v53.0



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	3	7	16
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities	pg 5		1	2	4
Mining Instability	pg 6	Yes	n/a	n/a	n/a
Natural Cavities	pg 6	4	5	1	27
Non Coal Mining Areas of Great Britain	pg 8	Yes	Yes	n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)	pg 10	1	2	n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)	pg 10	2	2	n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)	pg 10	2	2	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 11		2	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	pg 12	2	4	6	12
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 13	1		5	9
Potentially Infilled Land (Water)	pg 13		3	5	6



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 15	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 15	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 16	Yes		n/a	n/a
Salt Mining Related Features					
Subsidence Insurance Claims	pg 17		2	n/a	n/a
Subsidence Investigations	pg 16		10	n/a	n/a

Report Version v53.0



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Highdown Bottom Chalk Pit Location: Emmer Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 137505 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A15SW (N)	0	1	471119 177082
2	BGS Recorded Mineral Sites Site Name: Chambers Copse Chalk Pit Location: Chalkhouse Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28018 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A15SE (NE)	16	1	471510 177380
3	BGS Recorded Mineral Sites Site Name: Emmer Green Chalk Pit Location: Emmer Green, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36318 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A16SW (NE)	146	1	471745 177142
4	BGS Recorded Mineral Sites Site Name: Chamber'S Copse Gravel Pit Location: Chalkhouse Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28020 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Black Park Gravel Member, Thames Valley Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A15NW (N)	170	1	471170 177645
5	BGS Recorded Mineral Sites Site Name: Tanner'S Farm Location: Toker'S Green, Henley-On-Thames, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 58221 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	316	1	470557 177367
6	BGS Recorded Mineral Sites Site Name: Hanover Mine Location: Emmer Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 187494 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12NE (E)	346	1	472254 176944



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	BGS Recorded Mineral Sites Site Name: Emmergreen Kiln Location: Emmer Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 137506 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NE (E)	364	1	472268 176960
7	BGS Recorded Mineral Sites Site Name: Emmergreen Kiln Location: Emmer Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 10910 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A16SE (E)	420	1	472280 177085
8	BGS Recorded Mineral Sites Site Name: Bryant'S Farm Chalk Pit Location: Chalkhouse Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28019 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A16NW (NE)	487	1	471895 177705
8	BGS Recorded Mineral Sites Site Name: Chambers Copse Chalk Pit Location: Chalkhouse Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28017 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A16NW (NE)	530	1	471915 177745
9	BGS Recorded Mineral Sites Site Name: Emmer Green Chalk Mine Location: Emmer Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220877 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A16SE (E)	494	1	472341 177128
9	BGS Recorded Mineral Sites Site Name: Emmer Green Chalk Mine Location: Emmer Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220873 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A16SE (E)	496	1	472330 177149



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	BGS Recorded Mineral Sites Site Name: Emmergreen Kiln Location: Emmer Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28021 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A16SE (E)	510	1	472285 177230
11	BGS Recorded Mineral Sites Site Name: Springfield Gravel Pit Location: Caversham Heights, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28008 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Black Park Gravel Member, Thames Valley Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (SE)	556	1	471870 176100
12	BGS Recorded Mineral Sites Site Name: Farthingworth Green Gravel Pit Location: Farthingworth Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 137483 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Black Park Gravel Member, Thames Valley Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9SE (W)	574	1	470214 176621
13	BGS Recorded Mineral Sites Site Name: Surley Row Chalk Pit Location: Caversham Heights, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28007 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	579	1	471580 176075
14	BGS Recorded Mineral Sites Site Name: Emmergreen Kiln Location: Emmer Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 227237 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A16SE (NE)	596	1	472305 177330
14	BGS Recorded Mineral Sites Site Name: Emmergreen Kiln Location: Emmer Green, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 227237 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A16SE (NE)	596	1	472305 177330



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	BGS Recorded Mineral Sites Site Name: Ashcroft Gravel Pit Location: Caversham Heights, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28005 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	674	1	470595 176080
16	BGS Recorded Mineral Sites Site Name: Surley Row Clay Pit Location: Caversham Heights, Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28006 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	694	1	471620 175950
17	BGS Recorded Mineral Sites Site Name: Emmer Green Chalk Mine Location: Emmer Green, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220261 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A7SW (S)	719	1	471309 175972
18	BGS Recorded Mineral Sites Site Name: Farthingworth Green Gravel Pit Location: Farthingworth Green, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 137484 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Black Park Gravel Member, Thames Valley Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9SE (W)	738	1	470059 176565
19	BGS Recorded Mineral Sites Site Name: Toker'S Green Location: Toker'S Green, Henley-On-Thames, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 58202 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (W)	851	1	469891 177032
20	BGS Recorded Mineral Sites Site Name: Ashcroft Gravel Pit Location: Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 28004 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Boyn Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	881	1	470370 175950



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	BGS Recorded Mineral Sites Site Name: Ashcroft Chalk Pit Location: Caversham Heights, Caversham, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 137507 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	908	1	470365 175923
21	BGS Recorded Mineral Sites Site Name: Toker'S Green Location: Toker'S Green, Henley-On-Thames, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 58197 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (W)	907	1	469841 176975
22	BGS Recorded Mineral Sites Site Name: Balmore Drive Location: Caversham, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 10911 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	920	1	471565 175730
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Man Made Mining Cavities Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A11NW (NW)	199	2	471100 176800
	Man Made Mining Cavities Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology: Infilled Ground Detail:	A12NE (E)	360	2	472270 176940
	Man Made Mining Cavities Cavity Type: Shaft Entry Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology: Infilled Ground Detail:	A12NE (E)	423	2	472300 177050
	Man Made Mining Cavities Cavity Type: 2x Adit Entry Chalk Mines Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology: No Details Detail:	A7NE (SE)	514	2	471550 176150
	Man Made Mining Cavities Cavity Type: Possible Crown Hole Collapses Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology: Black Park Gravel Detail:	A7NE (SE)	550	2	471600 176100



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man Made Mining Cavities Cavity Type: Adit and Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Detail: Black Park Gravel	A7SW (S)	743	2	471300 175950
	Man Made Mining Cavities Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Detail: No Details	A16NE (NE)	768	2	472300 177600
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NW (NW)	0	3	471119 176761
	Natural Cavities Cavity Type: Sinkhole x 3 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A15SW (NE)	0	2	471330 177120
	Natural Cavities Cavity Type: Solution Pipe x 19 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A15NW (N)	0	2	471141 177417
	Natural Cavities Cavity Type: Solution Pipe x 16 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A14SE (NW)	0	2	470900 177080
	Natural Cavities Cavity Type: Solution Pipe x 7 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel, Head	A10SE (SW)	0	2	470989 176685
	Natural Cavities Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A11NW (N)	36	2	471200 177000
	Natural Cavities Cavity Type: Solution Pipe x 10 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Detail: No Details	A12NW (E)	61	2	471800 176930
	Natural Cavities Cavity Type: Solution Pipe x 17 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Detail: Black Park Gravel, Winter Hill Gravel	A15SE (NE)	75	2	471650 177360
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A11SW (SE)	231	2	471200 176700
	Natural Cavities Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group Superficial Geology Detail: Black Park Gravel	A11SW (SE)	231	2	471200 176700
	Natural Cavities Cavity Type: Sinkhole x 6, Solution Pipe x 6 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Detail: No Details	A16NW (NE)	451	2	471900 177650



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	503	2	470290 176610
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	508	2	470290 176590
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	508	2	470290 176590
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	512	2	470280 176610
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	524	2	470270 176600
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	527	2	470270 176590
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	530	2	470270 176580
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	537	2	470260 176590
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	540	2	470260 176580
	Natural Cavities Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Black Park Gravel, Worked Ground Detail:	A8NW (SE)	542	2	471800 176100
	Natural Cavities Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	571	2	470230 176570
	Natural Cavities Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	571	2	470230 176570
	Natural Cavities Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	581	2	470220 176570
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: No Details Detail:	A7NE (SE)	589	2	471560 176070



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Winter Hill Gravel Detail:	A16SE (NE)	592	2	472200 177400
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Boyne Hill Gravel Detail:	A6NE (SW)	596	2	470770 176130
	Natural Cavities Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Winter Hill Gravel Detail:	A16SE (NE)	618	2	472250 177400
	Natural Cavities Cavity Type: Solution Pipe x 4 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	623	2	470200 176500
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SE (W)	634	2	470170 176550
	Natural Cavities Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology: Boyne Hill Gravel Detail:	A6SE (SW)	731	2	470700 176000
	Natural Cavities Cavity Type: Solution Pipe x 10 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9NE (W)	768	2	470000 176800
	Natural Cavities Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: No Details Detail:	A7SE (S)	820	2	471400 175850
	Natural Cavities Cavity Type: Unknown x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A5NW (W)	885	2	469980 176350
	Natural Cavities Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A5NW (W)	892	2	469950 176400
	Natural Cavities Cavity Type: Sinkhole x 3, Solution Pipe x 6 Solid Geology Detail: Chalk Group Superficial Geology: Boyne Hill Gravel Detail:	A5SE (SW)	959	2	470300 175900
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SW (W)	984	2	469800 176600
	Natural Cavities Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Black Park Gravel Detail:	A9SW (W)	984	2	469800 176600
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	471250 176569



Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	246	1	472153 176934



Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Extractive Industries or Potential Excavations from 1855-1909 Use: Old Chalk Pit First Map Published 1878 Date: Last Map Published Not Applicable Date:	A11NW (N)	0	-	471103 177066
24	Extractive Industries or Potential Excavations from 1855-1909 Use: Chalk Pit First Map Published 1879 Date: Last Map Published Not Applicable Date:	A15SE (NE)	9	-	471483 177380
25	Extractive Industries or Potential Excavations from 1855-1909 Use: W First Map Published 1878 Date: Last Map Published Not Applicable Date:	A10SE (W)	32	-	470755 176710
26	Extractive Industries or Potential Excavations from 1893-1915 Use: Old Chalk Pit First Map Published 1898 Date: Last Map Published Not Applicable Date:	A11NW (N)	0	-	471107 177063
27	Extractive Industries or Potential Excavations from 1893-1915 Use: Chalk Pit First Map Published 1898 Date: Last Map Published Not Applicable Date:	A15SW (N)	0	-	471173 177091
28	Extractive Industries or Potential Excavations from 1893-1915 Use: Chalk Pit First Map Published 1898 Date: Last Map Published Not Applicable Date:	A15SE (NE)	7	-	471484 177378
29	Extractive Industries or Potential Excavations from 1893-1915 Use: W First Map Published 1898 Date: Last Map Published Not Applicable Date:	A10SE (W)	34	-	470754 176708
30	Extractive Industries or Potential Excavations from 1906-1937 Use: Old Chalk Pits First Map Published 1913 Date: Last Map Published Not Applicable Date:	A15SW (N)	0	-	471173 177087
31	Extractive Industries or Potential Excavations from 1906-1937 Use: Old Chalk Pits First Map Published 1913 Date: Last Map Published Not Applicable Date:	A11NW (N)	0	-	471107 177064
32	Extractive Industries or Potential Excavations from 1906-1937 Use: Old Chalk Pit First Map Published 1913 Date: Last Map Published Not Applicable Date:	A15SE (NE)	7	-	471485 177379
33	Extractive Industries or Potential Excavations from 1906-1937 Use: W First Map Published 1913 Date: Last Map Published Not Applicable Date:	A10SE (W)	32	-	470756 176709



Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Pit First Map Published 1956 Date: Last Map Published 1956 Date:	A15SE (NE)	7	-	471563 177354
35	Extractive Industries or Potential Excavations from 1950-1980 Use: Old Chalk Pit First Map Published 1956 Date: Last Map Published 1956 Date:	A15SE (NE)	8	-	471497 177376



Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900	A14SE (NW)	0	-	470937 177083
37	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900	A11NW (N)	0	-	471124 177076
38	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1882 - 1900	A15SE (NE)	26	-	471524 177386
39	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1882 - 1900	A15NW (N)	155	-	471175 177629
40	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1882	A16NW (NE)	212	-	471769 177427
41	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1991	A14NE (NW)	224	-	470777 177459
42	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1915	A14SW (NW)	310	-	470554 177357
43	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1961	A8NW (SE)	410	-	471713 176137
44	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1961	A8NW (SE)	414	-	471869 176249
45	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1991	A8NW (SE)	472	-	471830 176176
46	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900 - 1961	A16SE (NE)	484	-	472224 177253
47	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900 - 1932	A8NW (SE)	487	-	471764 176107
48	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900 - 1932	A9SE (W)	509	-	470287 176596
49	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1882	A16NW (NE)	537	-	471919 177750
50	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900	A9SE (W)	562	-	470225 176626
51	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1914	A7NE (SE)	582	-	471587 176070
52	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900 - 1914	A6NW (SW)	587	-	470593 176172
53	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900	A7SE (SE)	700	-	471624 175943
54	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1960	A9SE (W)	758	-	470049 176522
55	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1882 - 1984	A9NW (W)	810	-	469930 177023
56	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900 - 1932	A6SW (SW)	820	-	470388 176010



Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1932	A6SW (SW)	825	-	470562 175933
58	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1932	A7SE (SE)	849	-	471574 175797
59	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1900	A9NW (W)	892	-	469855 176987
60	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A11NW (N)	0	-	471124 177076
61	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A12NE (E)	328	-	472207 177028
62	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (SE)	410	-	471713 176137
63	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (SE)	414	-	471869 176249
64	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A16SE (NE)	484	-	472224 177253
65	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (SE)	487	-	471764 176107
66	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A9SE (W)	509	-	470287 176596
67	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A16NW (NE)	537	-	471919 177750
68	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7NE (SE)	582	-	471587 176070
69	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A6NW (SW)	587	-	470593 176172
70	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7SE (SE)	700	-	471624 175943
71	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A9SE (W)	758	-	470053 176513
72	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A6SW (SW)	820	-	470388 176010
73	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7SE (SE)	849	-	471574 175797
74	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A9NW (W)	892	-	469855 176987
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A11SE (SE)	147	-	471369 176621
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A11SW (SE)	191	-	471316 176636
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A12SW (E)	198	-	471958 176539



Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1914	A7NW (SE)	288	-	471314 176387
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A12SE (E)	295	-	472124 176522
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A16SW (NE)	351	-	471988 177225
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A12SE (E)	382	-	472251 176527
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A7NE (SE)	395	-	471591 176264
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A16NE (NE)	549	-	472112 177482
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A16NE (NE)	579	-	472087 177612
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A16NE (NE)	657	-	472256 177442
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A7SE (S)	722	-	471367 175955
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A6SW (SW)	790	-	470464 176005
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A6SE (S)	813	-	470797 175913



Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District 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.				
89	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
90	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
91	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	0	1	470871 177183
92	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	470966 176702
93	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	471250 176569
94	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	470842 176912
95	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	0	1	470818 177248
96	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	471189 176636
97	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	0	1	471521 176920
98	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (W)	0	1	471091 176751
99	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	1	1	471158 176809
100	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NW (NW)	195	1	470560 177000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	1	471527 176435
101	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
102	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	470966 176702
103	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	0	1	470871 177183
104	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	470842 176912
105	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	470826 176828



Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	64	1	470987 176684
107	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	203	1	470942 176562
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (W)	0	1	471091 176751
108	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	0	1	470871 177183
109	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	470987 176684
110	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (W)	0	1	471091 176751
111	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	470987 176684
112	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	471250 176569
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	471119 176761
	Subsidence Investigations Site Investigation 28th November 2003 Date: Root Survey: No CCTV Drain Survey: Yes Depth of Foundation Not Supplied Footing: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 27th October 2008 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footing: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 6th October 2003 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footing: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 31st January 2014 Date: Root Survey: Yes CCTV Drain Survey: No Depth of Foundation Not Supplied Footing: Soil Classification: Not Supplied			-	



Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Subsidence Investigations Site Investigation 4th October 2008 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 16th August 2001 Date: Root Survey: Yes CCTV Drain Survey: Yes Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 2nd December 2014 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation 0.1 Footings: Soil Classification: Clay of Very High Plasticity			-	
	Subsidence Investigations Site Investigation 26th September 2003 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 6th December 2010 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Investigations Site Investigation 16th February 2004 Date: Root Survey: No CCTV Drain Survey: No Depth of Foundation Not Supplied Footings: Soil Classification: Not Supplied			-	
	Subsidence Insurance Claims Case Date: 13th November 2007 Movement Trend Not Supplied Indication: Damage Not Supplied Classification:			-	
	Subsidence Insurance Claims Case Date: 11th March 2013 Movement Trend Not Supplied Indication: Damage Not Supplied Classification:			-	



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

1:2,500	Mapsheet	Published Date
Oxfordshire	056_11	1878
Oxfordshire	056_11	1878
Oxfordshire	056_11	1878
Oxfordshire	056_11	1878
Oxfordshire	056_11	1878
Oxfordshire	056_11	1878
Oxfordshire	056_07	1879
Oxfordshire	056_07	1879
Oxfordshire	056_07	1879
Oxfordshire	056_07	1898
Oxfordshire	056_07	1898
Oxfordshire	056_07	1898
Oxfordshire	056_11	1898
Oxfordshire	056_11	1898
Oxfordshire	056_11	1898
Oxfordshire	056_11	1898
Oxfordshire	056_11	1898
Berkshire	029_07	1913
Berkshire	029_07	1913
Berkshire	029_07	1913
Berkshire	029_11	1913
Berkshire	029_11	1913
Berkshire	029_11	1913
Berkshire	029_11	1913
Berkshire	029_11	1913
Berkshire	029_11	1913
Berkshire	029_11	1936
Berkshire	029_11	1936
Berkshire	029_11	1936
Berkshire	029_11	1936
Berkshire	029_11	1936
Berkshire	029_11	1936
Ordnance Survey Plan	SU7177	1956
Ordnance Survey Plan	SU7177	1956
Ordnance Survey Plan	SU7177	1956
Ordnance Survey Plan	SU7177	1956
Ordnance Survey Plan	SU7177	1956



Historical Map List

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SU7177	1956
Ordnance Survey Plan	SU7276	1956
Ordnance Survey Plan	SU7277	1956
Ordnance Survey Plan	SU7277	1956
Ordnance Survey Plan	SU7077	1964
Ordnance Survey Plan	SU7077	1964

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

1:10,560	Mapsheet	Published Date
Oxfordshire	056_00	1882
Berkshire	029_NW	1900
Berkshire	029_SE	1900
Berkshire	029_SW	1900
Oxfordshire	056_NE	1900
Oxfordshire	056_NW	1900
Oxfordshire	056_SE	1900
Oxfordshire	056_SW	1900
Berkshire	029_NW	1914
Berkshire	029_SE	1914
Berkshire	029_SW	1914
Oxfordshire	056_NW	1914
Oxfordshire	056_SE	1914
Oxfordshire	056_SW	1914
Berkshire	029_NE	1915
Oxfordshire	056_NE	1915
Berkshire	029_SE	1932
Berkshire	029_SW	1938
Oxfordshire	056_SW	1938
Ordnance Survey Plan	SU67NE	1960
Ordnance Survey Plan	SU77NW	1961
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SU67NE	1984
Ordnance Survey Plan	SU77NW	1991



Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Peter Brett Associates	October 2018	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2018	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	August 2018	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Subsidence Insurance Claims SP Property Services	October 2018	Quarterly
Subsidence Investigations CET Structures Ltd	July 2018	Quarterly
Brine Subsidence Solution Area Johnson Poole & Bloomer	January 2015	Annual Rolling Update

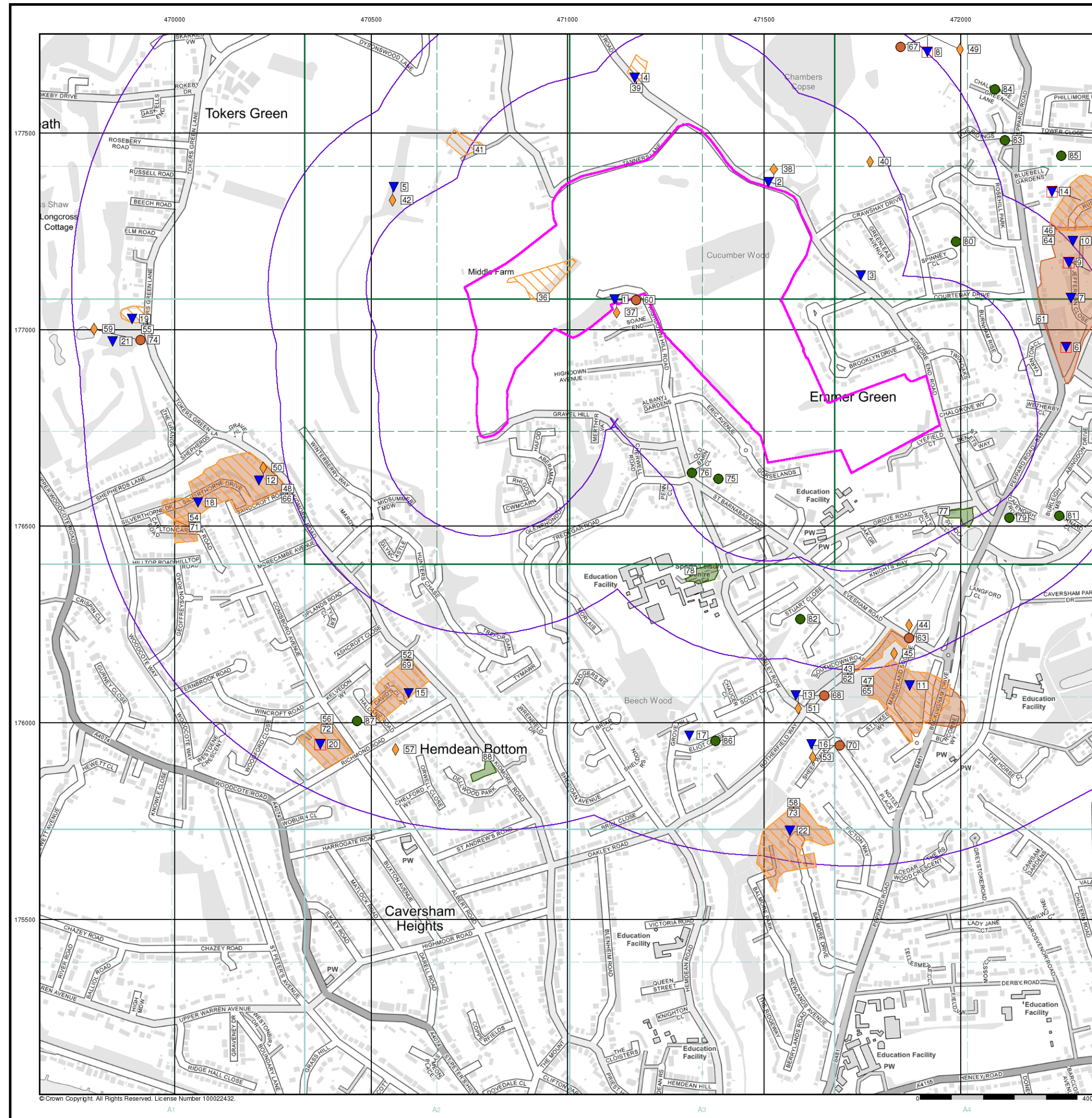
A selection of organisations who provide data within this report

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



Useful Contacts

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
3	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
-	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 (1:10,000)

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

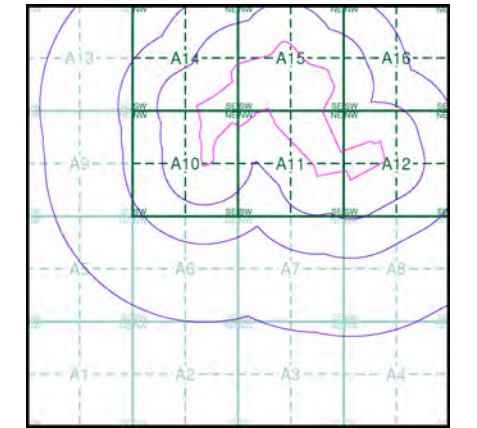
Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	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			

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

Mining Data
Potential Mining Area
BGS Recorded Mineral Site

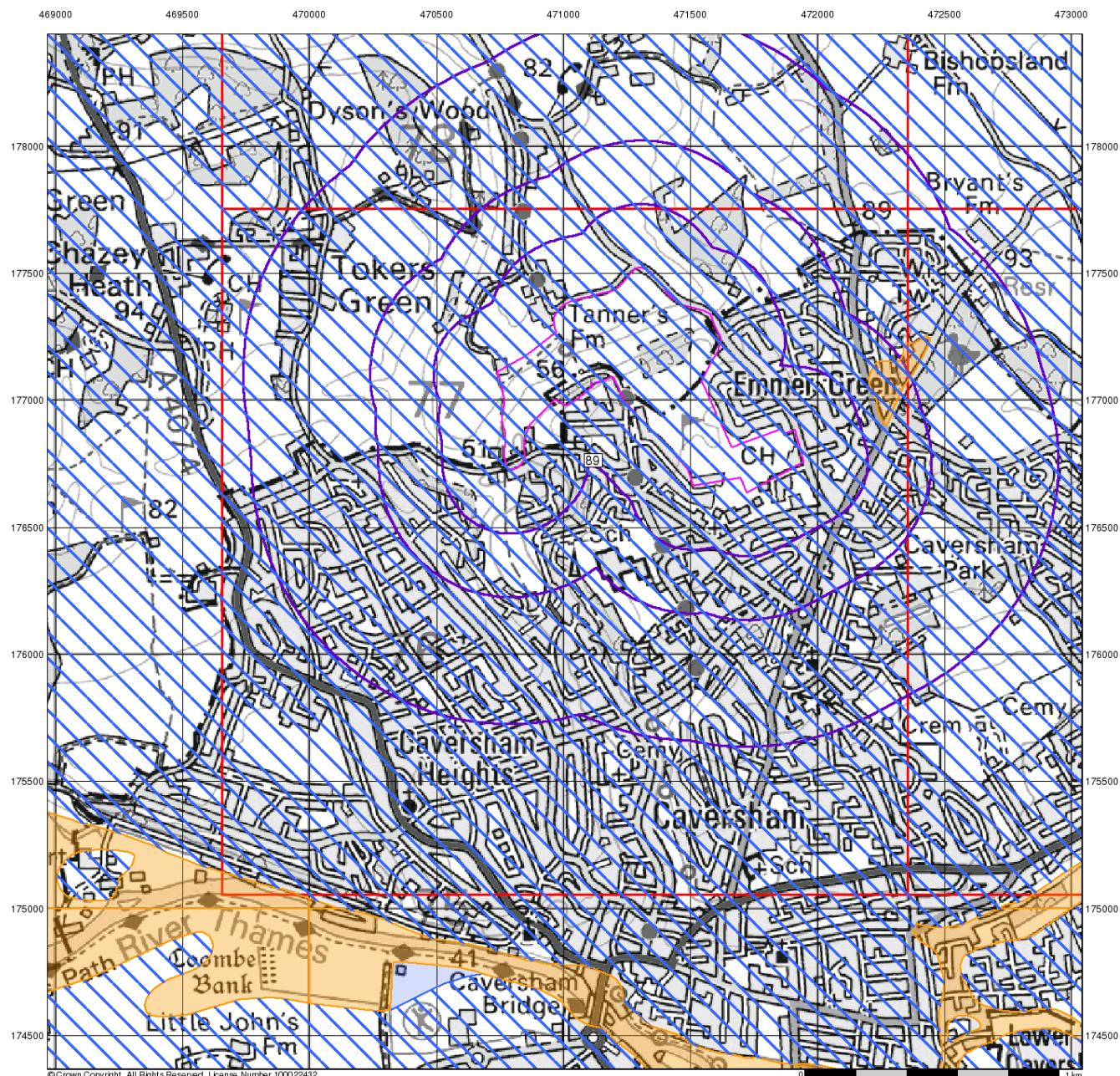
Mining and Ground Stability - Slice A



Order Details
Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Search Buffer (m): 1000

Site Details
Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ

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



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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

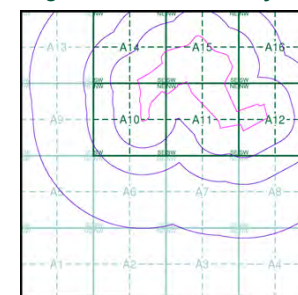
- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- | Point | Polygon |
|-------|---------|
| | |
| | |

Mining and Ground Stability - Slice A



Order Details

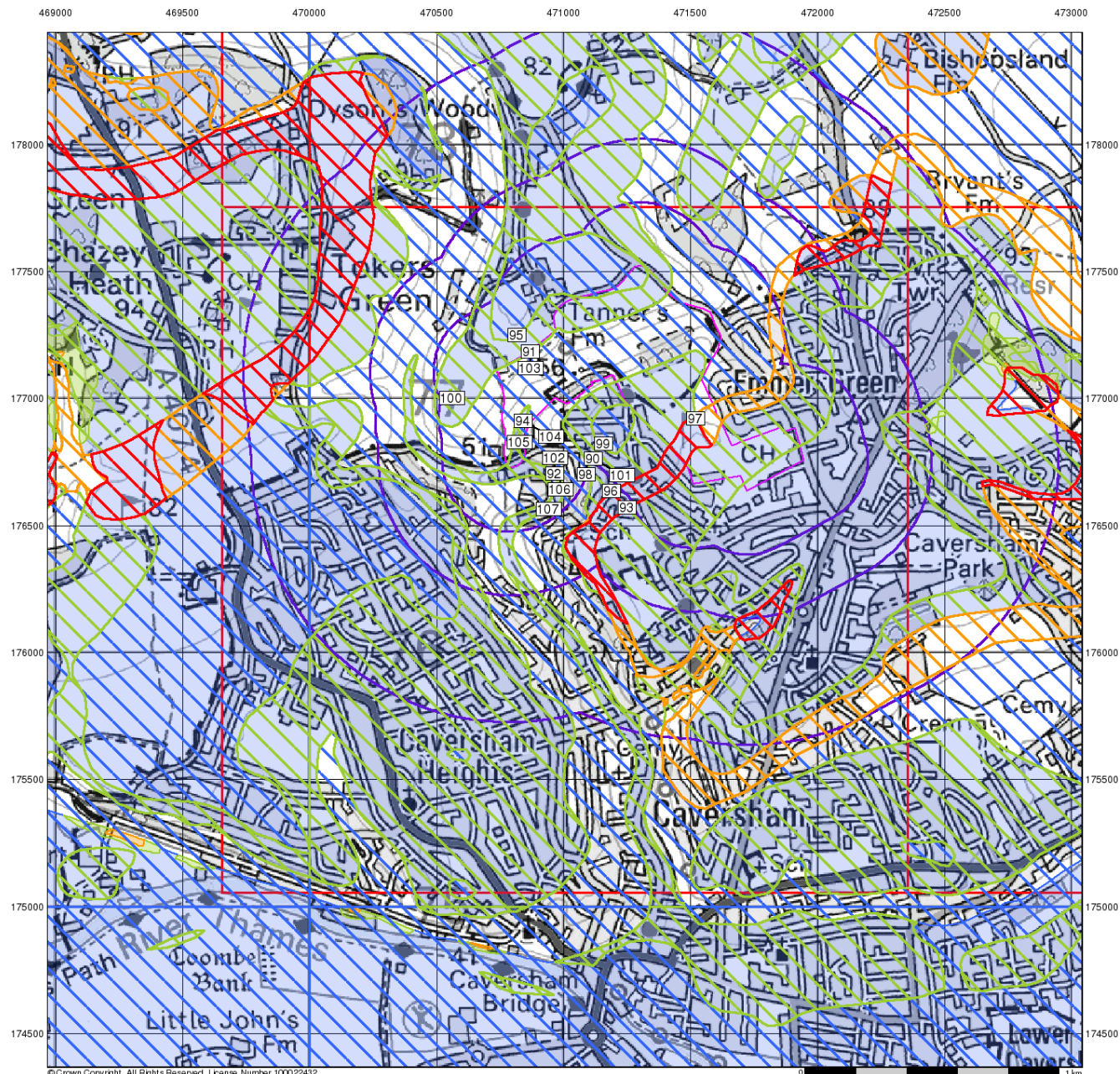
Order Number: 192365557_1
 Customer Ref: 12112
 National Grid Reference: 471120, 176760
 Slice: A
 Site Area (Ha): 44.51
 Search Buffer (m): 1000

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ

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Ground Stability Data (1:50,000)

General

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

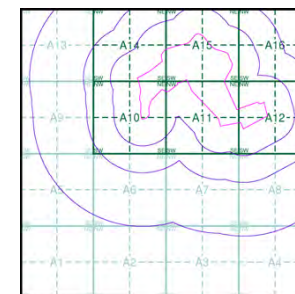
Potential for Landslide Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice A



Order Details

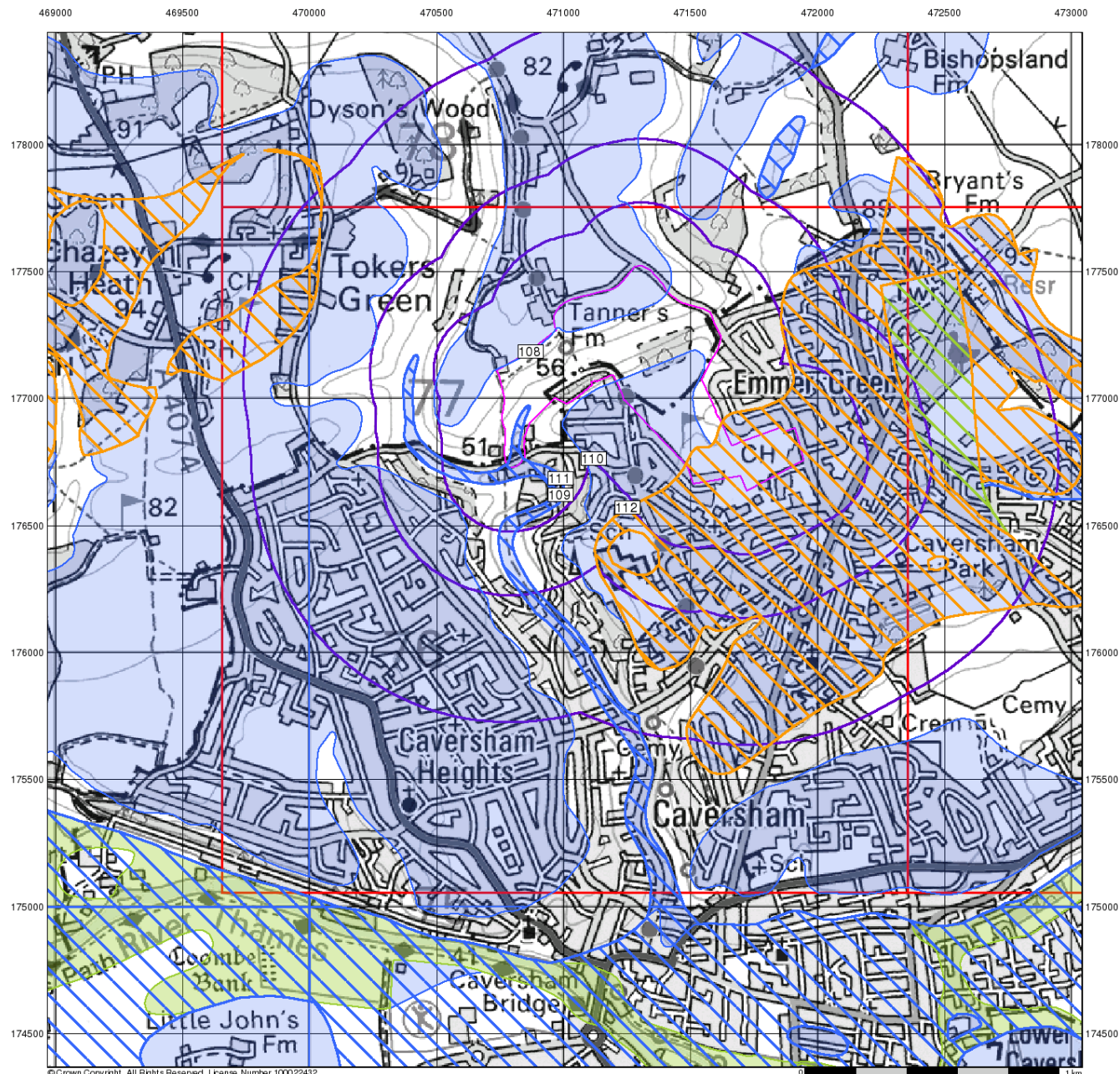
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 Customer Ref: 12112
 National Grid Reference: 471120, 176760
 Slice: A
 Site Area (Ha): 44.51
 Search Buffer (m): 1000

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ

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Ground Stability Data (1:50,000)

General

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

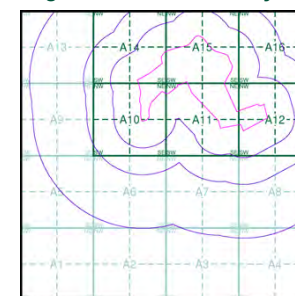
Potential for Running Sand Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice A



Order Details

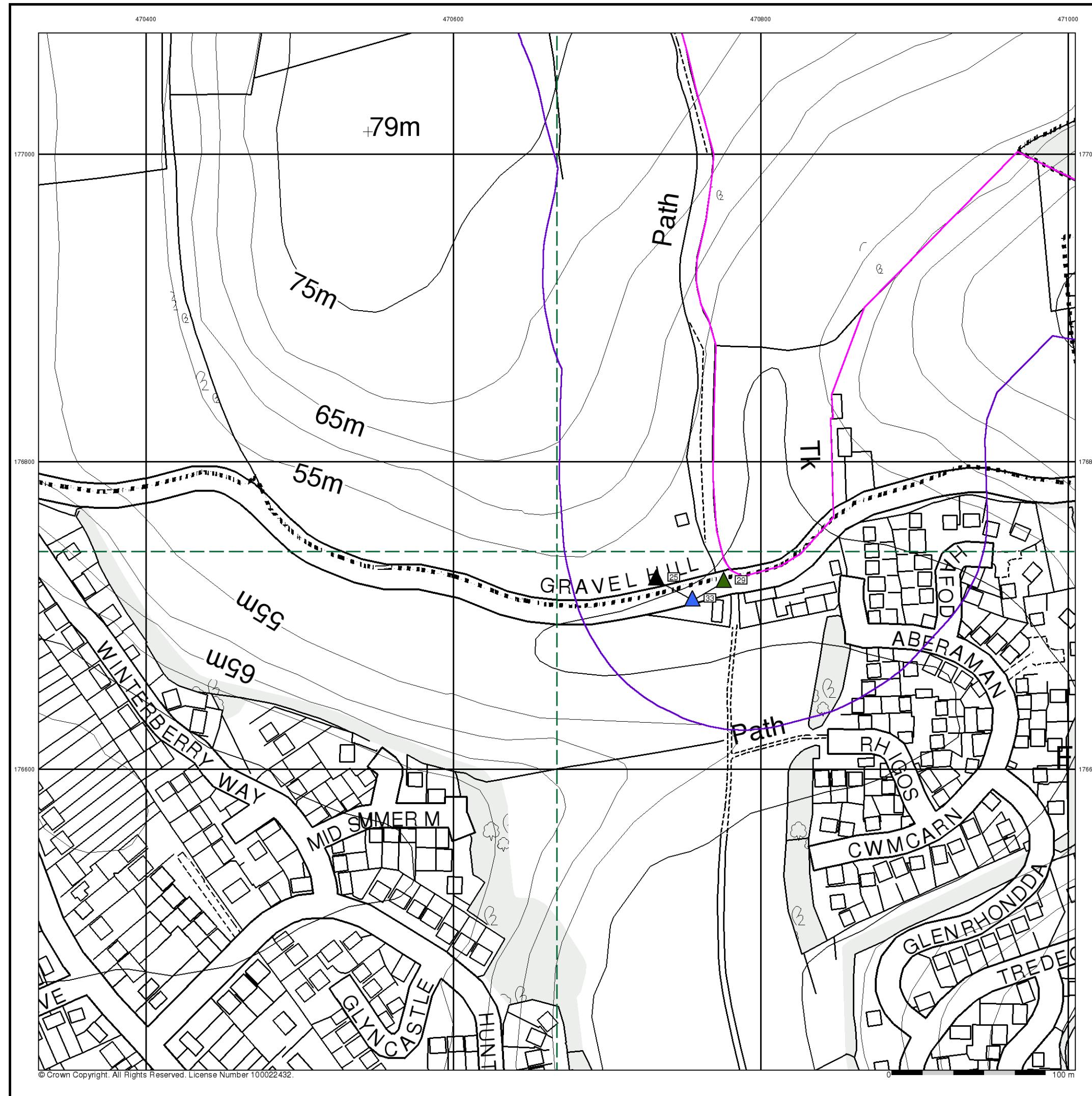
Order Number: 192365557_1
 Customer Ref: 12112
 National Grid Reference: 471120, 176760
 Slice: A
 Site Area (Ha): 44.51
 Search Buffer (m): 1000

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ

Landmark
 INFORMATION GROUP

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Historical Land Use Information (1:2,500)

General

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

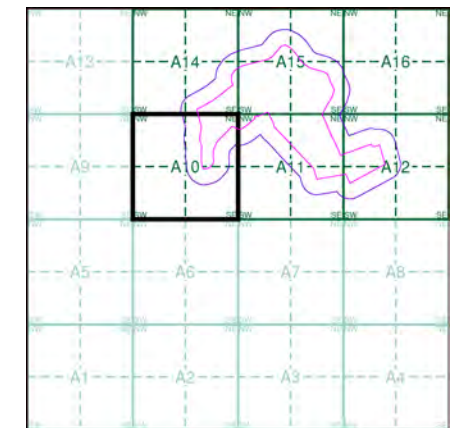
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A10



Order Details

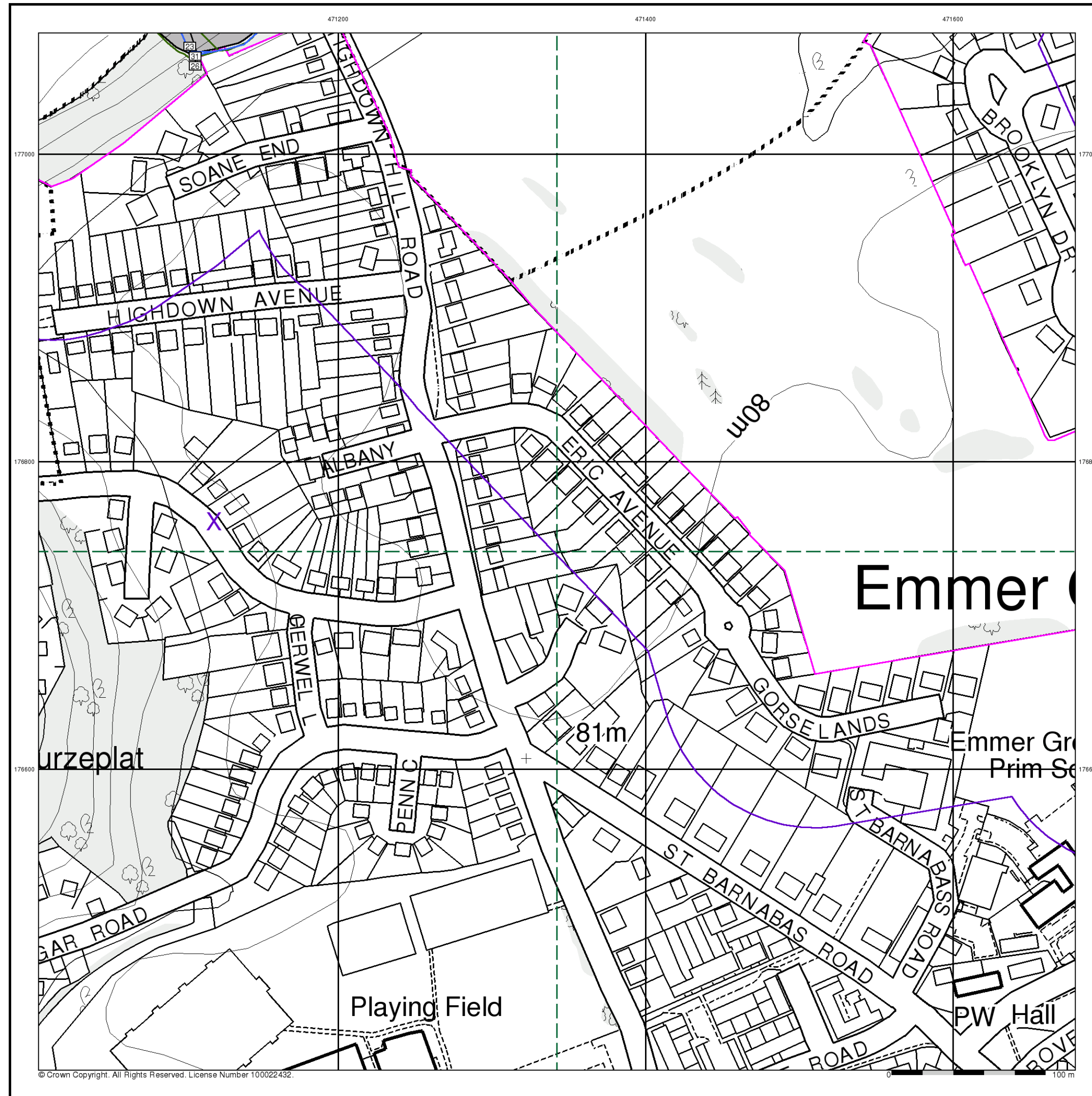
Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Plot Buffer (m): 100

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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Historical Land Use Information (1:2,500)

General

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

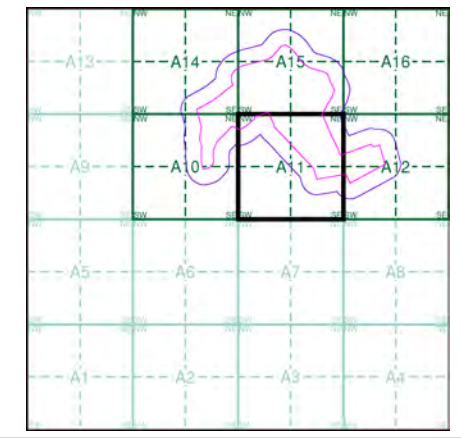
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A11



Order Details

Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Plot Buffer (m): 100

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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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

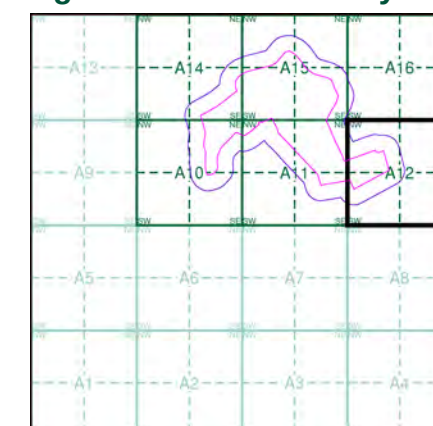
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A12



Order Details

Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Plot Buffer (m): 100

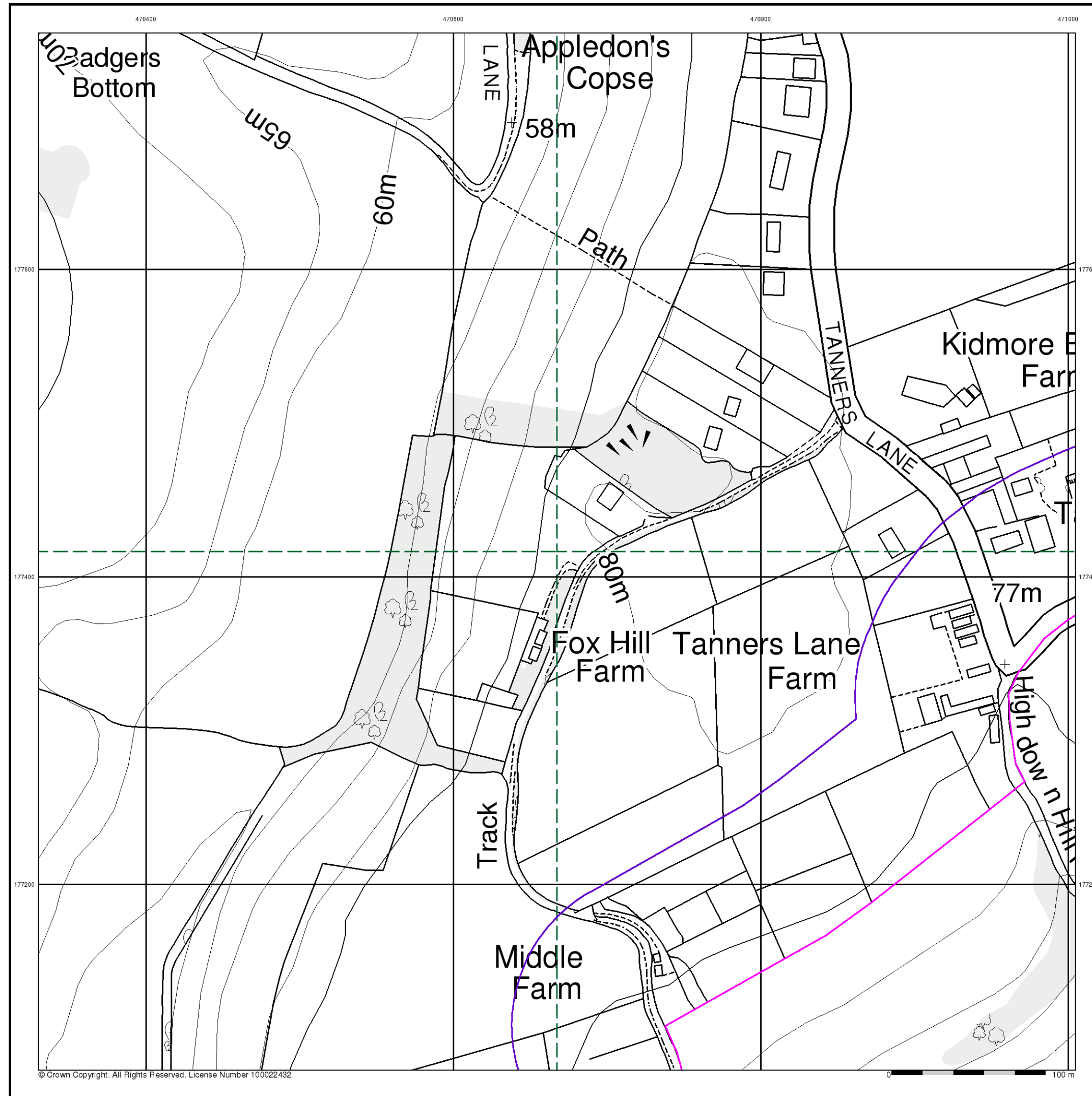
Site Details

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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

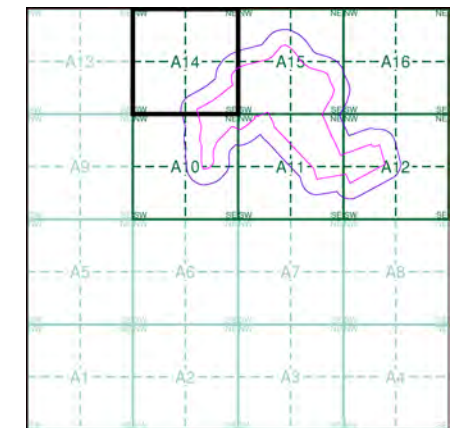
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A14



Order Details

Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Plot Buffer (m): 100

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green, READING, RG4 8SQ



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

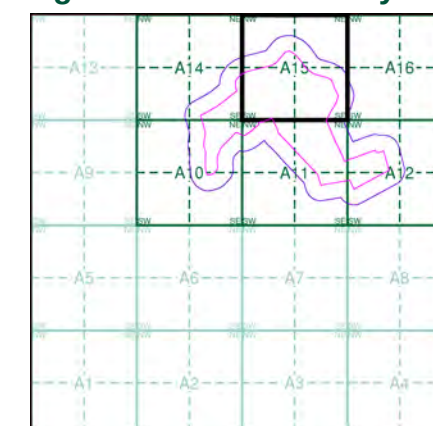
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A15



Order Details

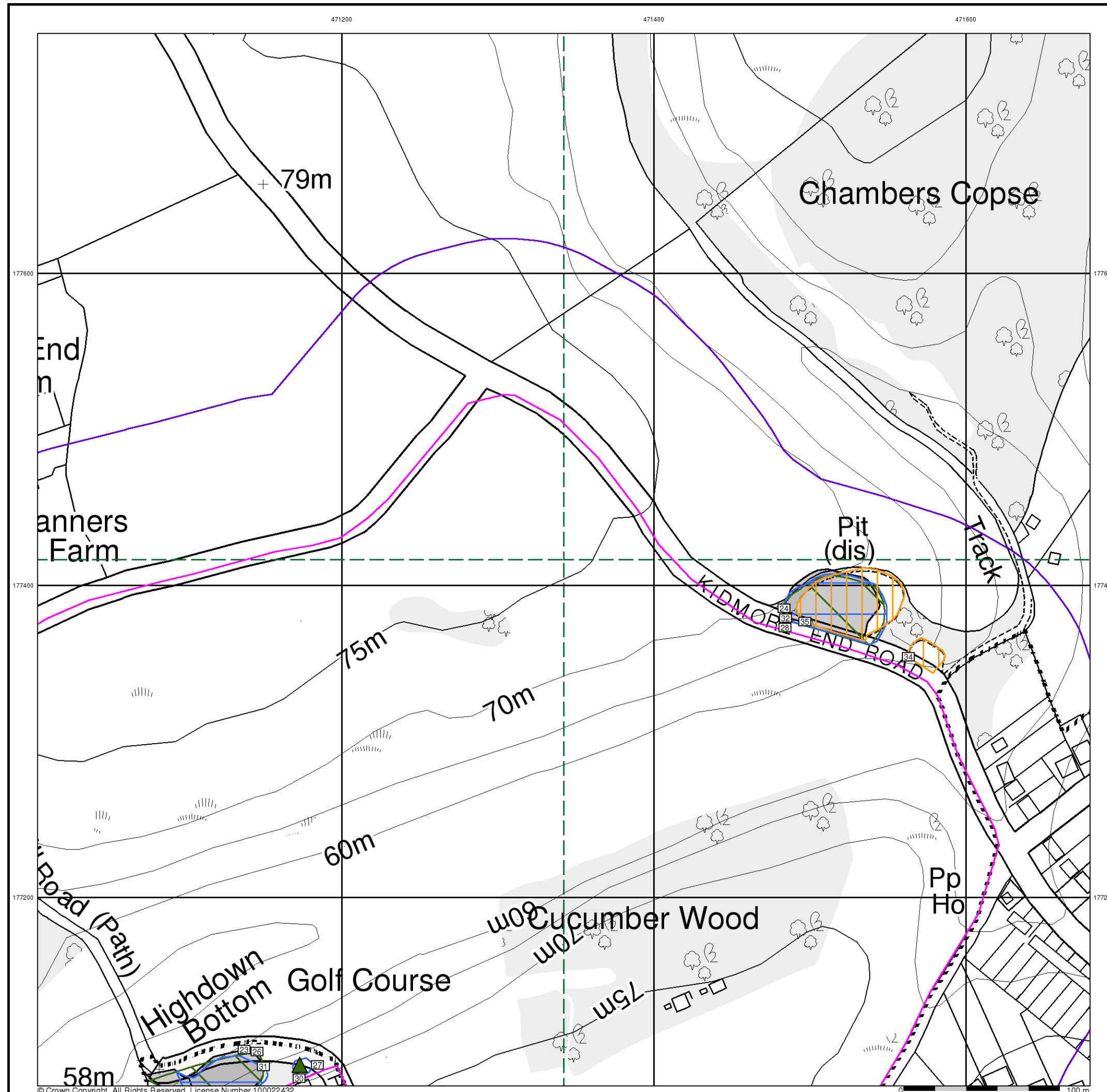
Order Number: 192365557_1_1
Customer Ref: 12112
National Grid Reference: 471120, 176760
Slice: A
Site Area (Ha): 44.51
Plot Buffer (m): 100

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green,
READING, RG4 8SQ

Landmark
INFORMATION GROUP

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





General

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

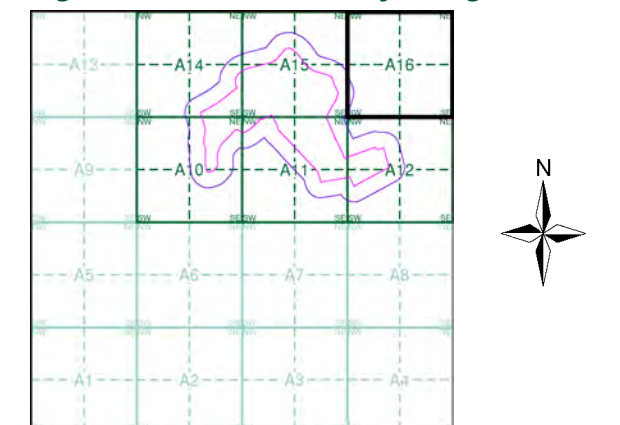
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 A16



Order Details

Order Number:	192365557_1_1
Customer Ref:	12112
National Grid Reference:	471120, 176760
Slice:	A
Site Area (Ha):	44.51
Plot Buffer (m):	100

Site Details

Reading Golf Club, 17, Kidmore End Road, Emmer Green,
READING, RG4 8SQ

Landmark
INFORMATION GROUP

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





APPENDIX 4
SITE INVESTIGATION PROTOCOL



Ground and Environmental Services Limited
Unit 2 Montpelier Business Park
Dencora Way
Ashford
Kent
TN23 4FG
01233 646237

Reading Golf Club, Kidmore End Road, Reading, RG4 8SQ

SITE INVESTIGATION PROTOCOL

Site is an 18-hole golf course. Future development of the site may include residential units with access to private gardens.

The objectives of the ground investigation would be to identify environmental liabilities associated with the site and delineate any areas of contamination resulting from the sites previous and current usage as identified in the Phase 1 Contamination Risk Assessment.

Phase 2 Contamination Assessment

This phase of works includes for contamination only. With reference to the Phase 1 ground conditions of Lambeth Group in the south eastern part, and Seaford Chalk Formation across the remainder of the site. Superficial Black Park Gravel Member, and Head Deposits are present across the site.

Based upon our understanding of the development proposals and upon a review of the available data the following intrusive works are proposed:

Window Sampling

To ensure sufficient site coverage we propose a minimum of 2 day's window sampling using track mounted window sampling equipment concentrating on potential contaminant sources identified at or immediately adjacent to the site.

A suitably qualified and experienced Environmental Scientist would log the window sample holes and select samples for subsequent contamination testing.

Six window sample holes would be completed with 35mm diameter gas/groundwater monitoring standpipes. The standpipes would be capped within gas valves and flush stopcock covers. All remaining window sample holes would be backfilled with arisings and surface coverings made safe.

Dedicated Soil Gas Monitoring Standpipes

Dedicated soil 1m soil gas monitoring standpipes would be installed along the north eastern boundary of the site, and monitored as part of the gas monitoring programme on site, in order to determine the presence of any migrating landfill gases from the nearby historical landfill sites.

Groundwater and Soil Gas Monitoring

A soil vapour survey will be undertaken across the site, in order to identify the presence of any volatile organic compounds such as petroleum products. This involves monitoring the

atmosphere within installed standpipes for volatile hydrocarbons using a portable photo-ionisation detector (PID). Levels of carbon dioxide, methane and oxygen will also be recorded using other portable monitoring equipment, to assess whether or not consideration should be given to the incorporation of gas protection measures in any buildings.

Should groundwater be encountered during the site investigation, samples will be taken and sent for analysis.

We recommend three return visits to monitor both groundwater level (if encountered) and soil gas concentrations in the window sample hole standpipes.

Laboratory Testing – Contamination

All samples collected during the intrusive investigation will be screened in the laboratory to identify the presence of volatile organic compounds using a portable PID and these results will be used to select samples for laboratory analysis. The analytical suite will include total petroleum hydrocarbons, MTBE, BTEXs and mineral oils and will be extended to include metals, polyaromatic hydrocarbons (PAH), water soluble sulphate and pH.

Given the potential contaminant sources on site, we would allow for the testing of between 12 and 16 soil samples/groundwater samples for the general suite as described above. In addition, samples will be analysed for the presence of Asbestos, given the nature of the sites historical use.

Offsite disposal of soils is likely to be required therefore the testing of composite samples Environment Agency's waste acceptance criteria (WAC) testing will be carried out.

Project Management/Reporting

Following completion of the study, a report will be prepared presenting an outline of the works carried out and an interpretation of the results gathered from the site investigation and laboratory testing. The potential liabilities associated with any contamination will be presented within the context of the risk assessment procedures set out in the Statutory Guidance on Contaminated Land.

The report will be presented to gain provisional discharge from any planning conditions stipulated by the statutory authorities relating to contamination. Where necessary, it will make recommendations for further investigation, and outline a remedial strategy to address any contamination.