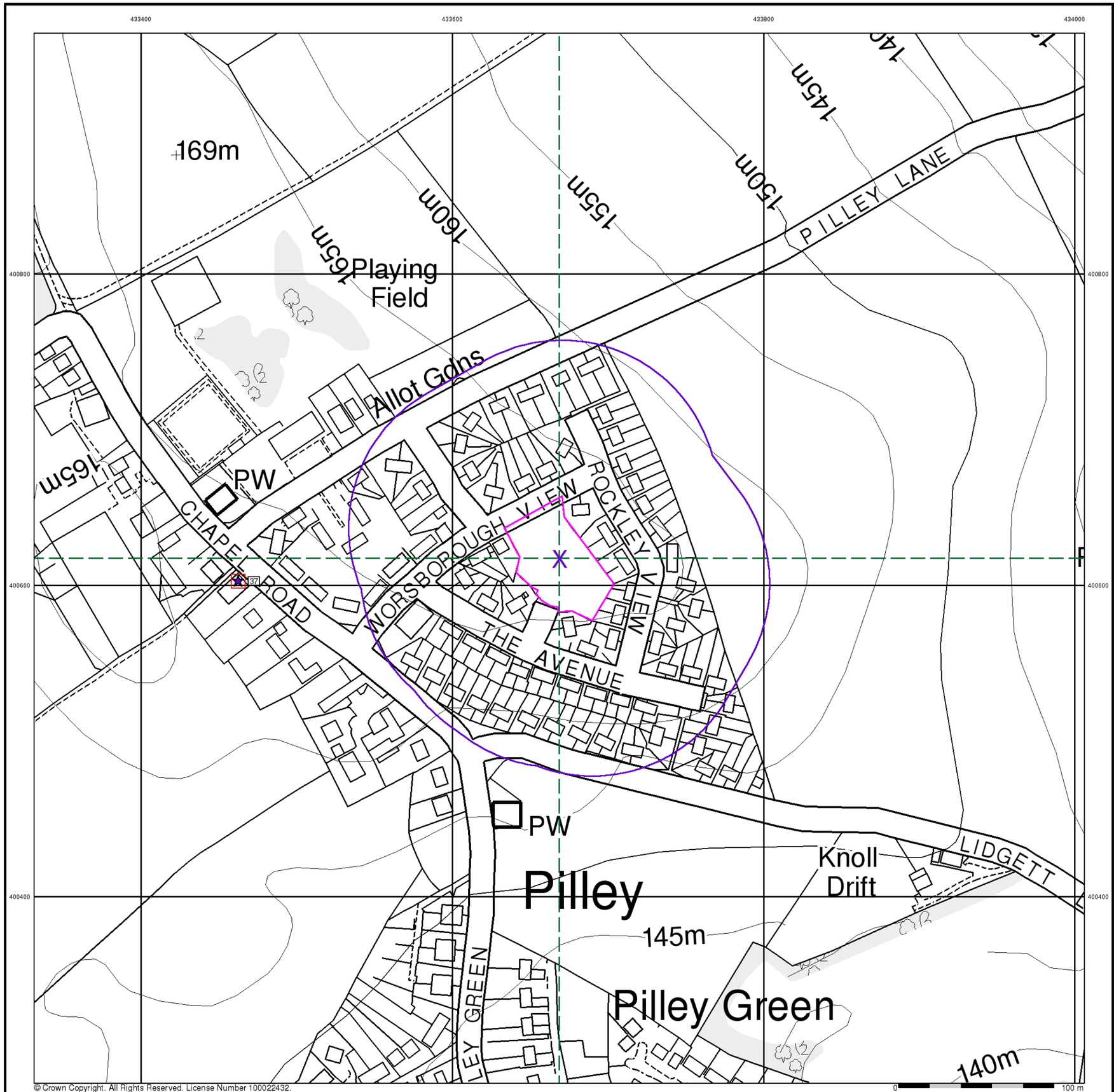
Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards** Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
3	**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
4	**Health and Safety Executive** Explosives Inspectorate, 1.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Telephone: 0151 951 3092 Fax: 0151 951 3891 Email: victoria.holloway@hse.gsi.go.uk Website: www.hse.gov.uk
5	**Barnsley Metropolitan Borough Council - Planning Department** Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
6	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
7	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	**Sheffield City Council** Howden House, 1 Union Street, Sheffield, South Yorkshire, S1 2SH	Telephone: 0114 273 4215 Fax: 0114 273 5002 Website: www.sheffield.gov.uk
9	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

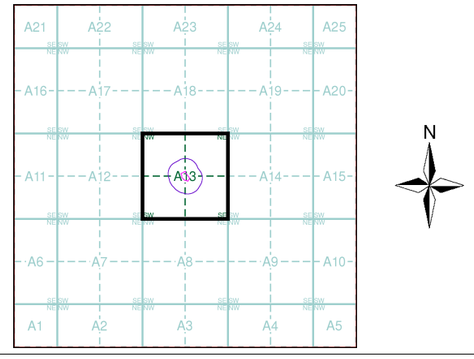
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13



Order Details

Order Number:	40972380_1_1
Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay and Silt	Flandrian - Flandrian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	HMR	Haigh Moor Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovian (Westphalian C) - Duckmantian (Westphalian B)
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Bolsovian (Westphalian C) - Duckmantian (Westphalian B)
	BNR	Barnsley Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	KNR	Kent's Rock	Sandstone	Duckmantian (Westphalian B) - Duckmantian (Westphalian B)
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	PKR	Parkgate Rock	Sandstone	Langsettian (Westphalian A) - Langsettian (Westphalian A)
	SR	Silkstone Rock	Sandstone	Langsettian (Westphalian A) -

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
				Langsettian (Westphalian A)
		Rock Segments		
		Faults		

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Geology 1:50,000 Maps

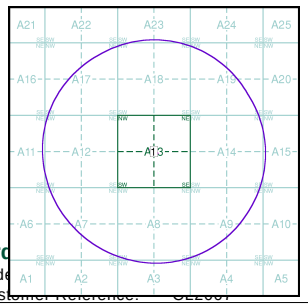
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**087**
Map Name:	**Barnsley**
Map Date:	**2008**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Not Available**
Faults:	**Available**
Landslip:	**Available**
Rock Segments:	**Available**

Geology 1:50,000 Maps - Slice A



Orc
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Customer Reference: GE2007

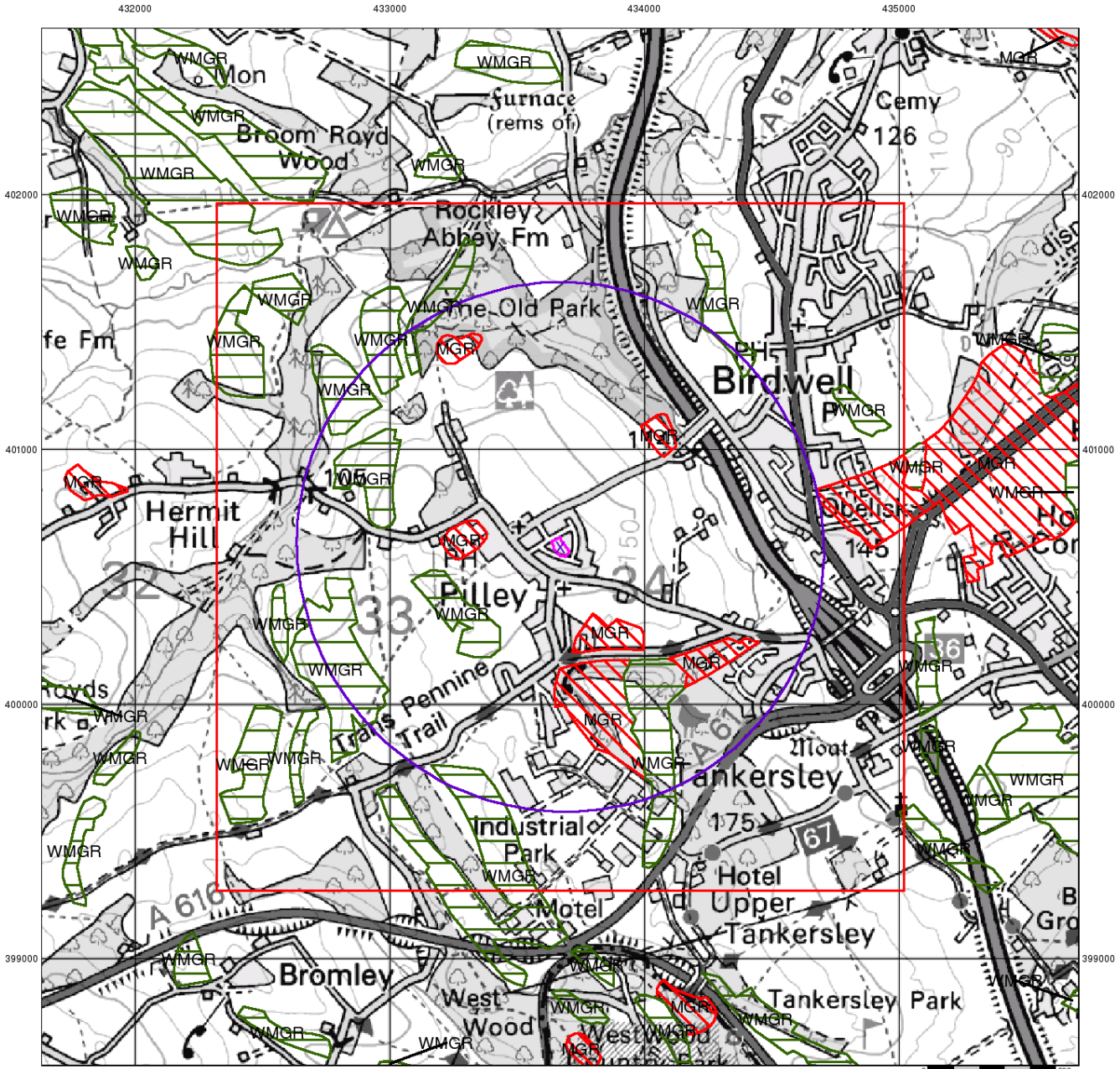
National Grid Reference: 433670, 400620
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details:

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Artificial Ground and Landslip

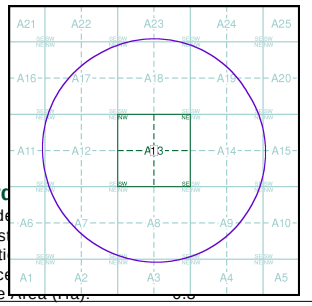
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



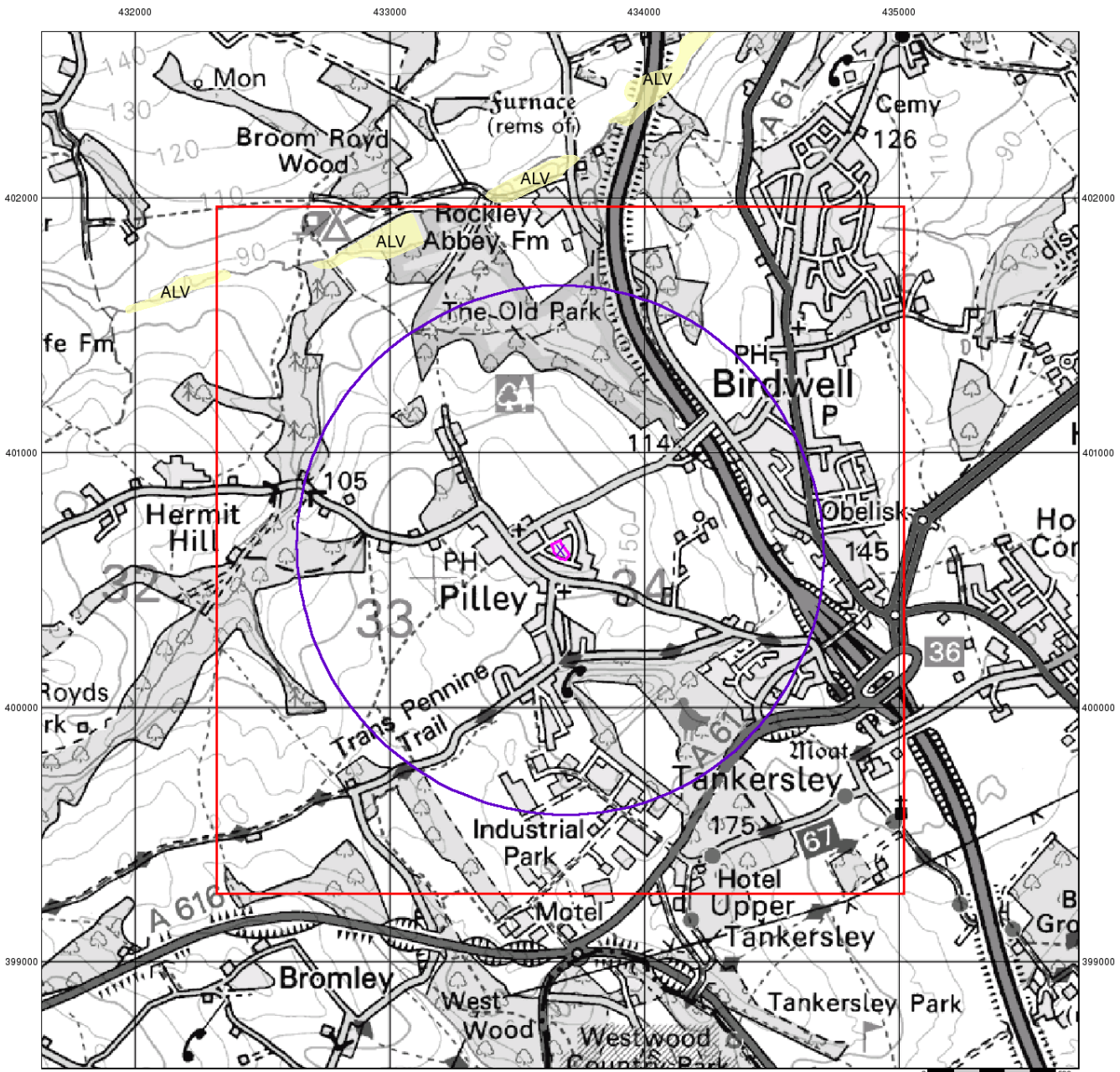
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Slice
Site Area (Ha): 0.0

Search Buffer (m): 1000

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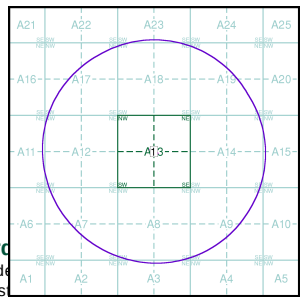
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



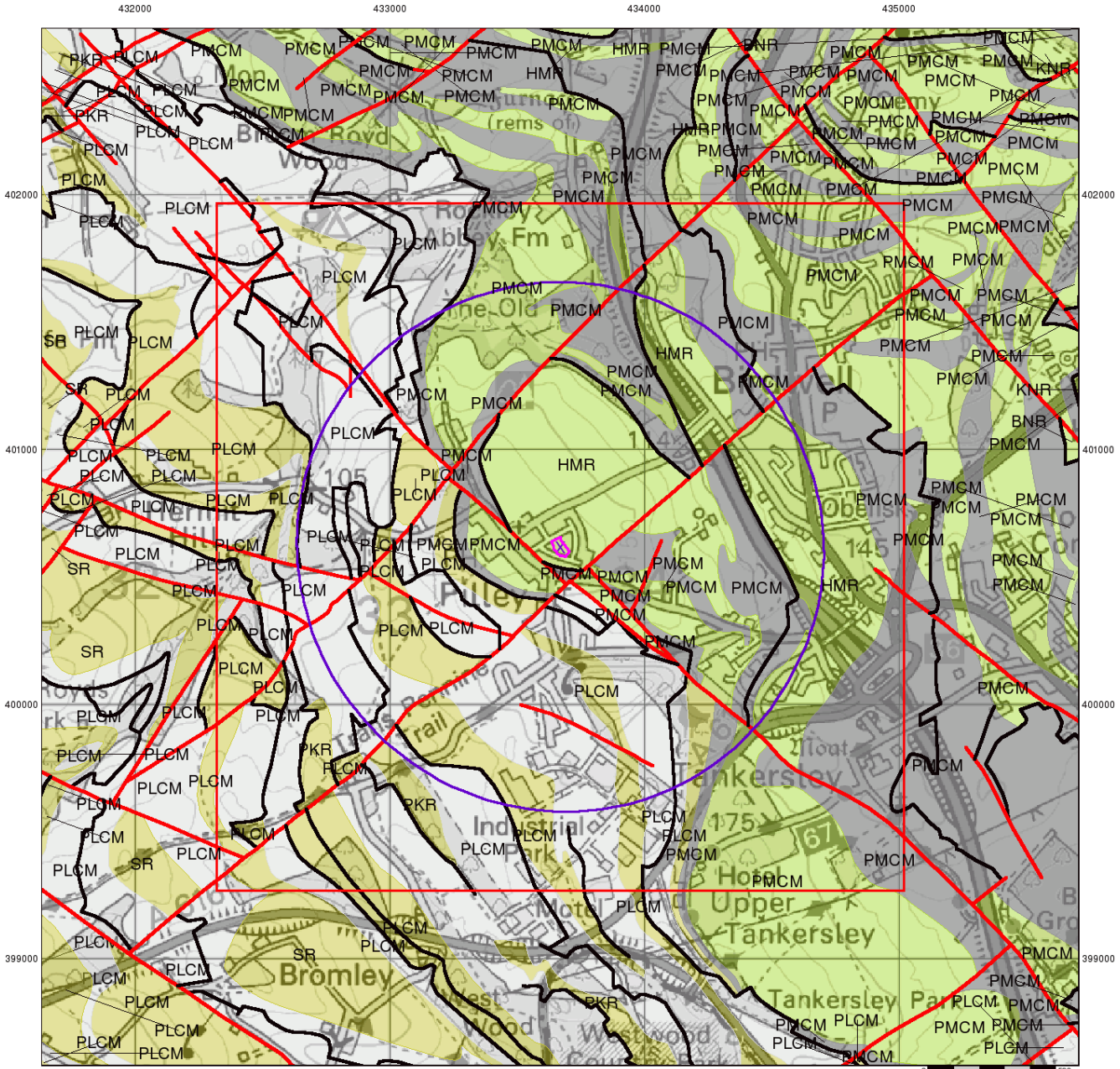
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National Grid Reference: 433670, 400620
Slice: A
Site Area (Ha): 0.3
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Bedrock and Faults

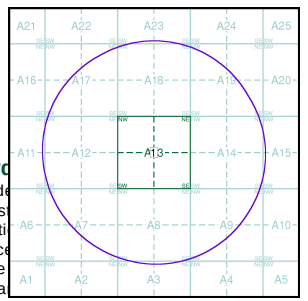
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

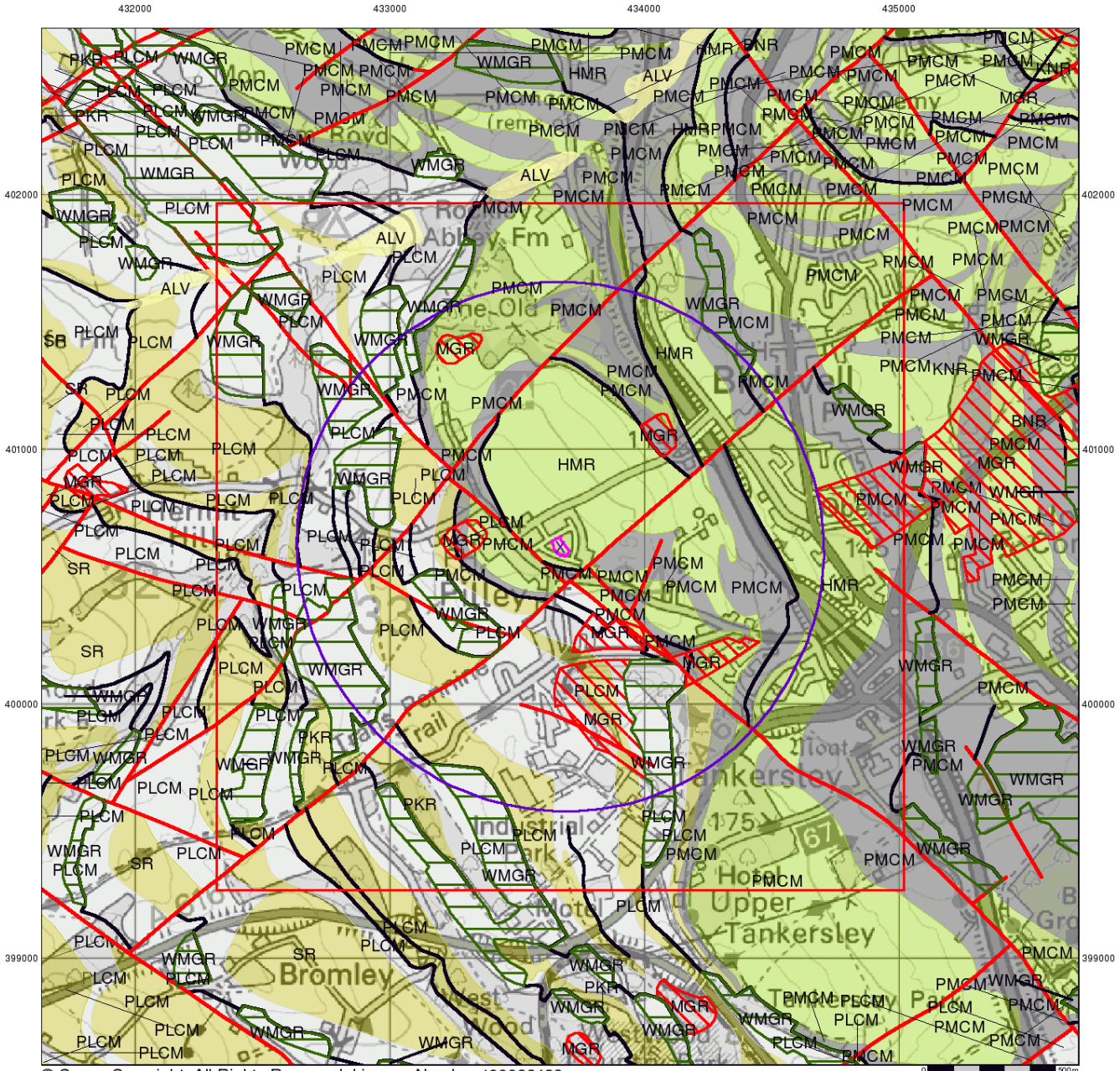


Orc
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Nati
Slice
Site
Sea

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

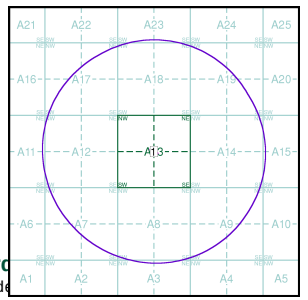
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



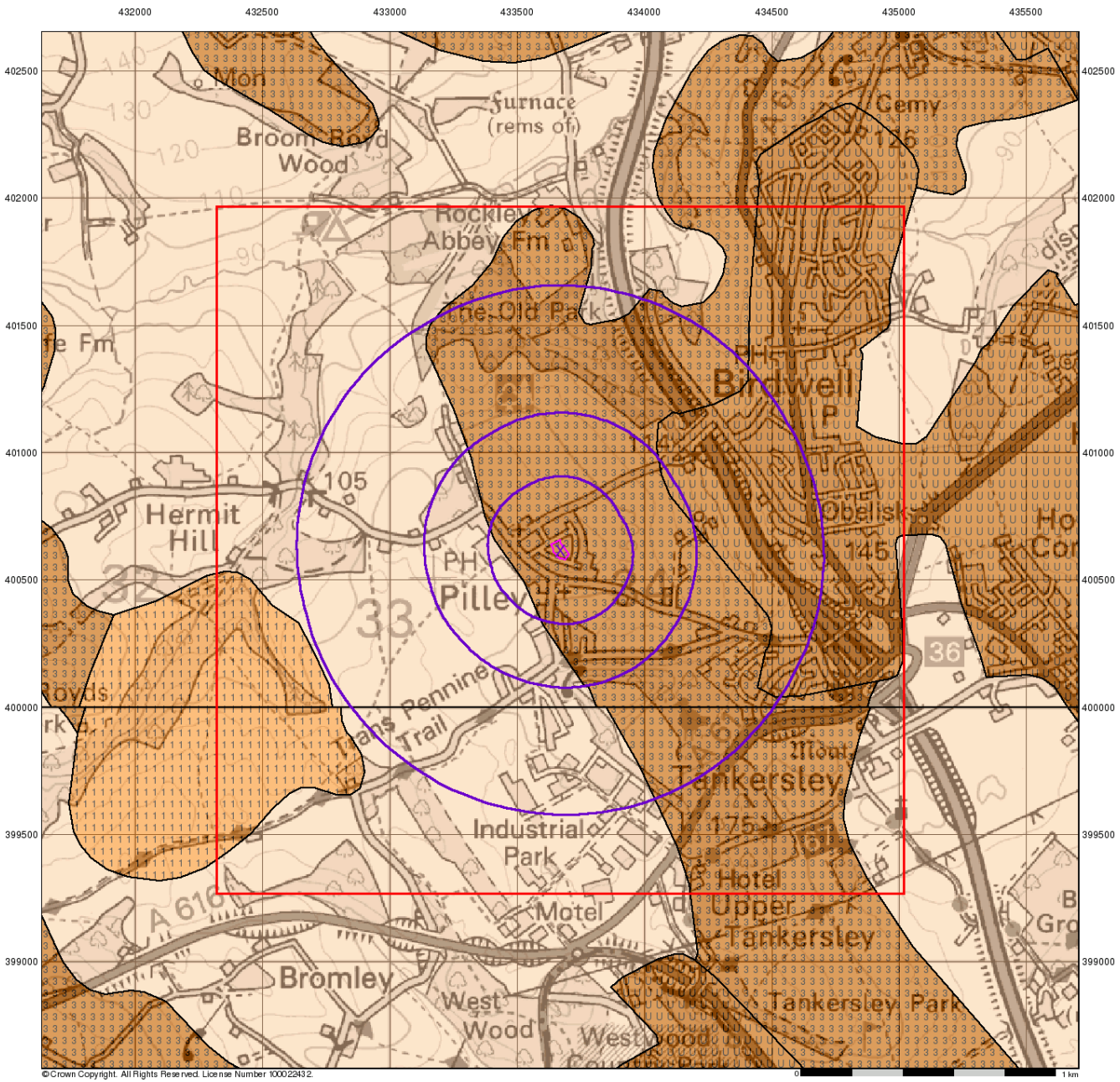
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Orde

Customer Reference:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details:

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Groundwater Vulnerability

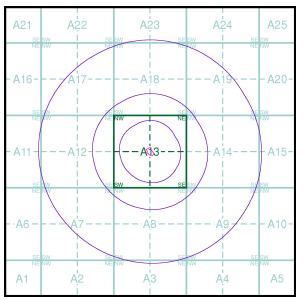
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



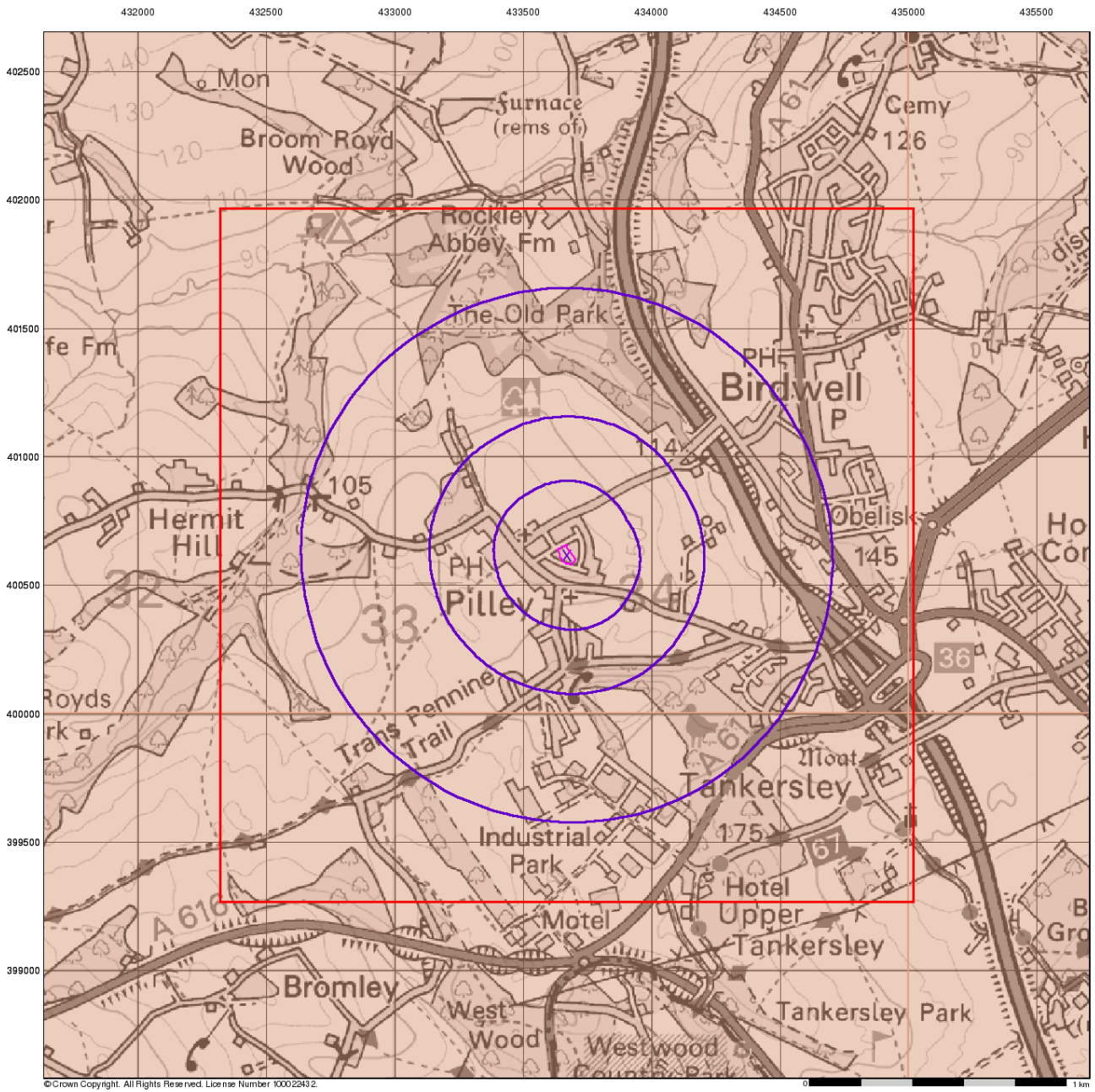
Order Details

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Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN

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Bedrock Aquifer Designation

General

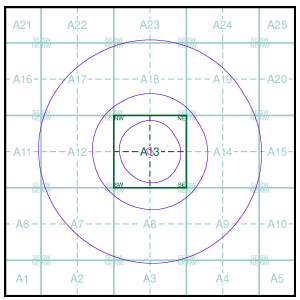
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A

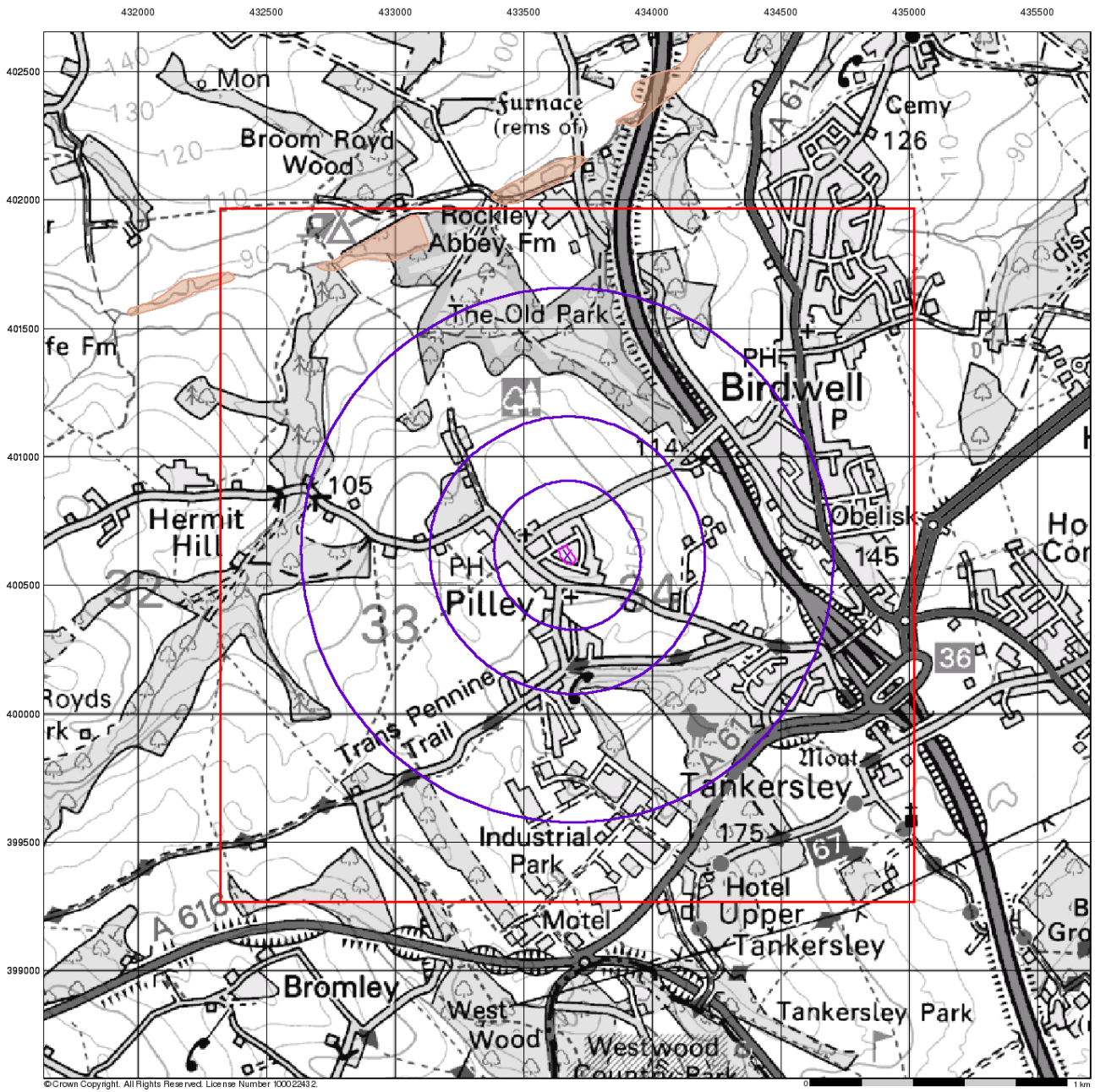


Order Details

Order Number:	40972380_1_1
Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN



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Superficial Aquifer Designation

General

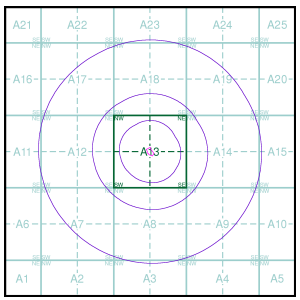
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



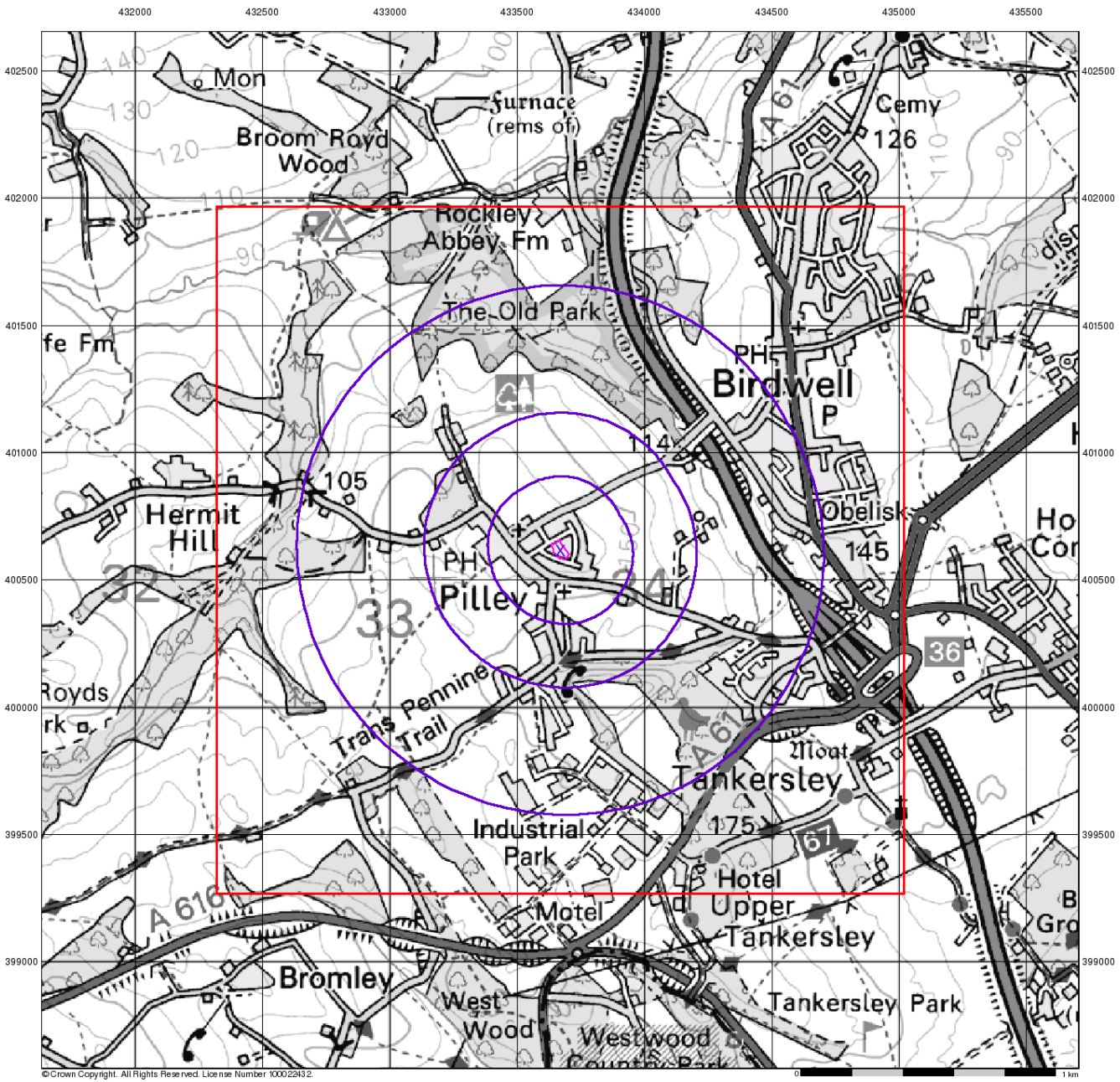
Order Details

Order Number:	40972380_1_1
Customer Ref:	CL2007
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Source Protection Zones

General

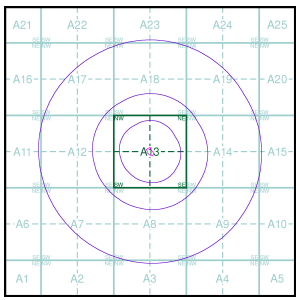
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



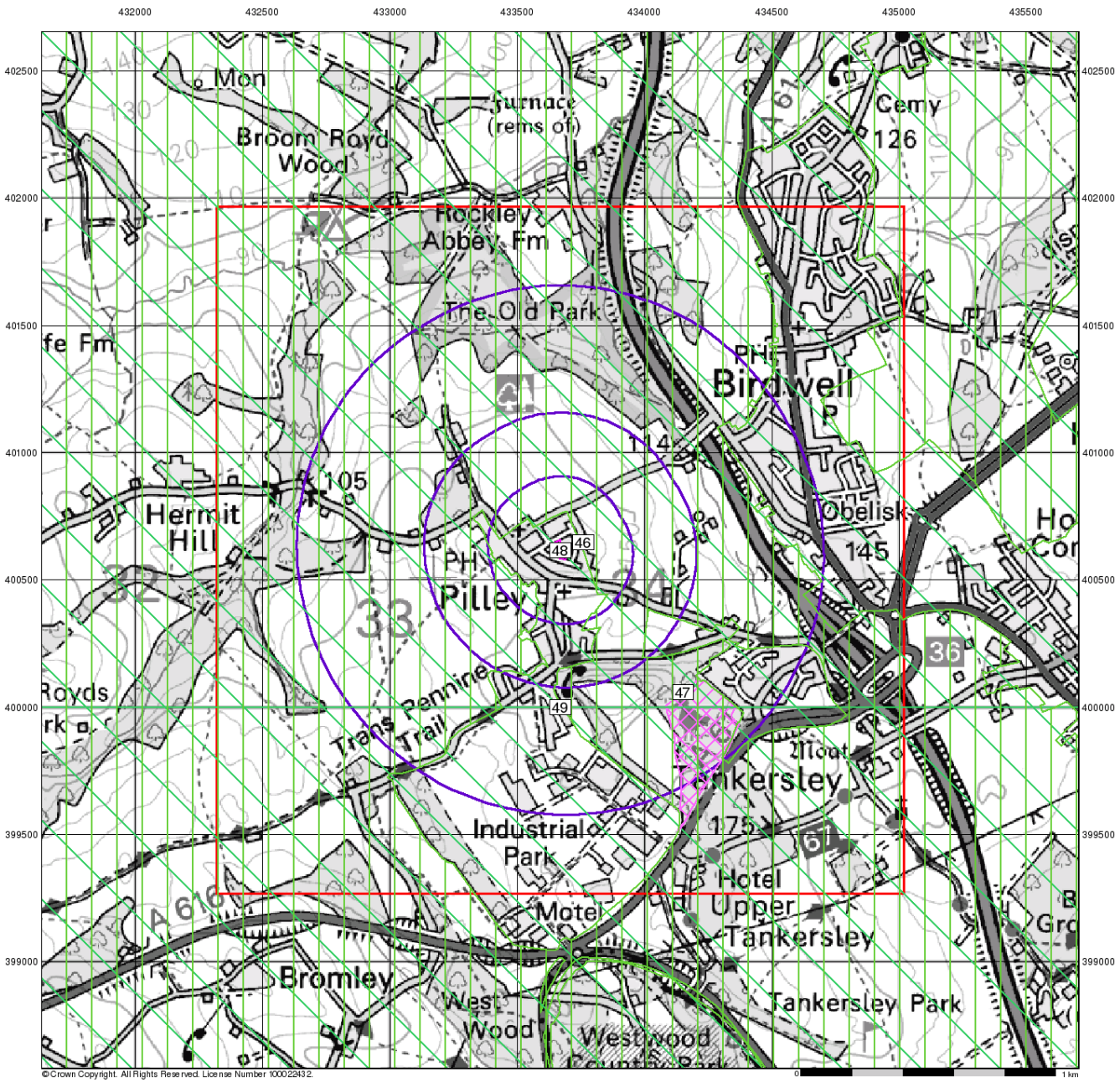
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National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

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Sensitive Land Uses

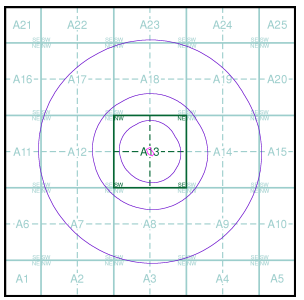
General

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

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



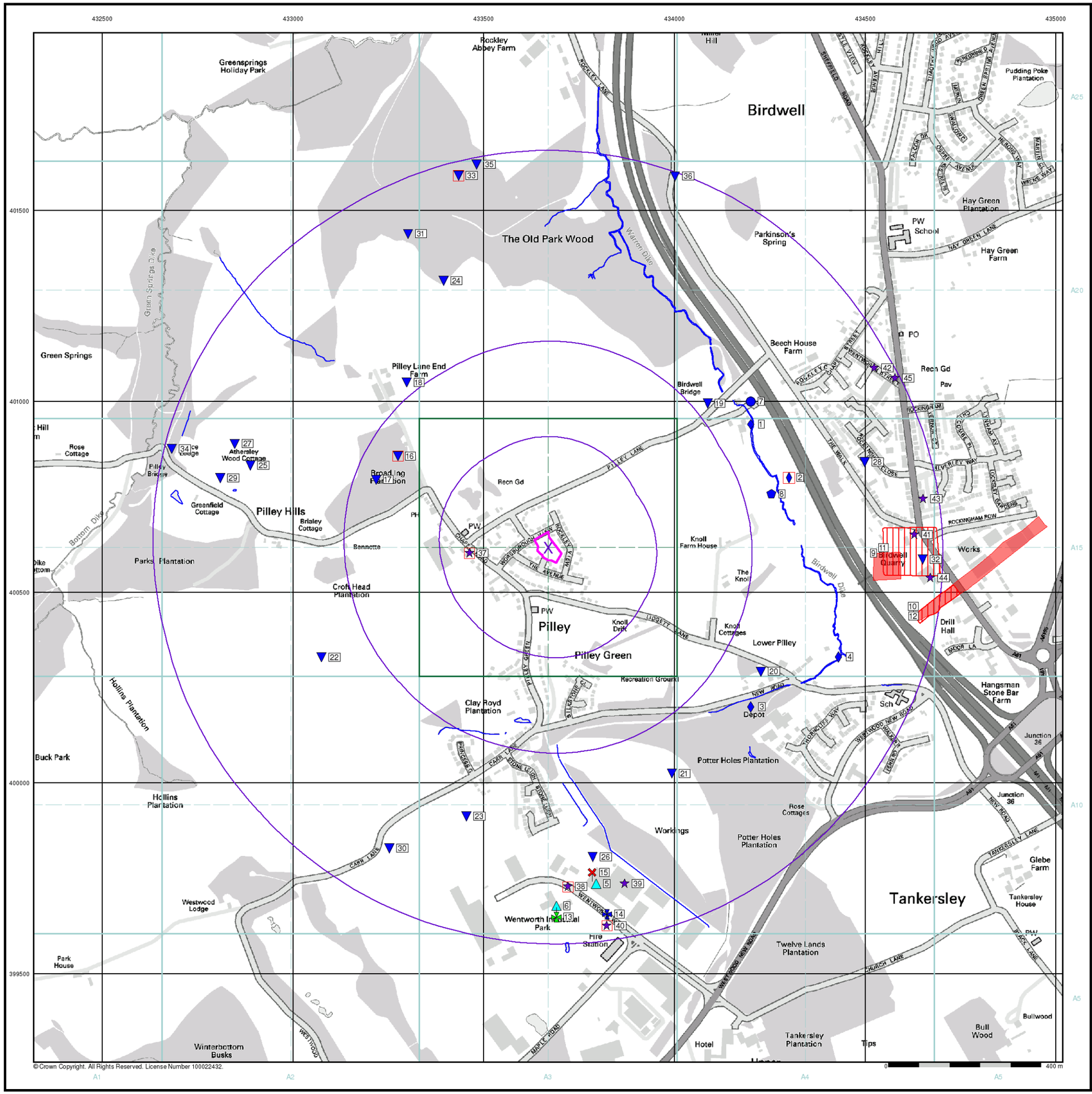
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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

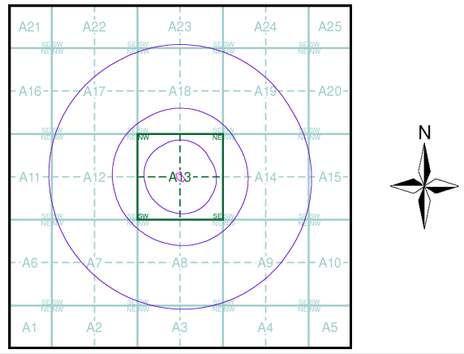
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



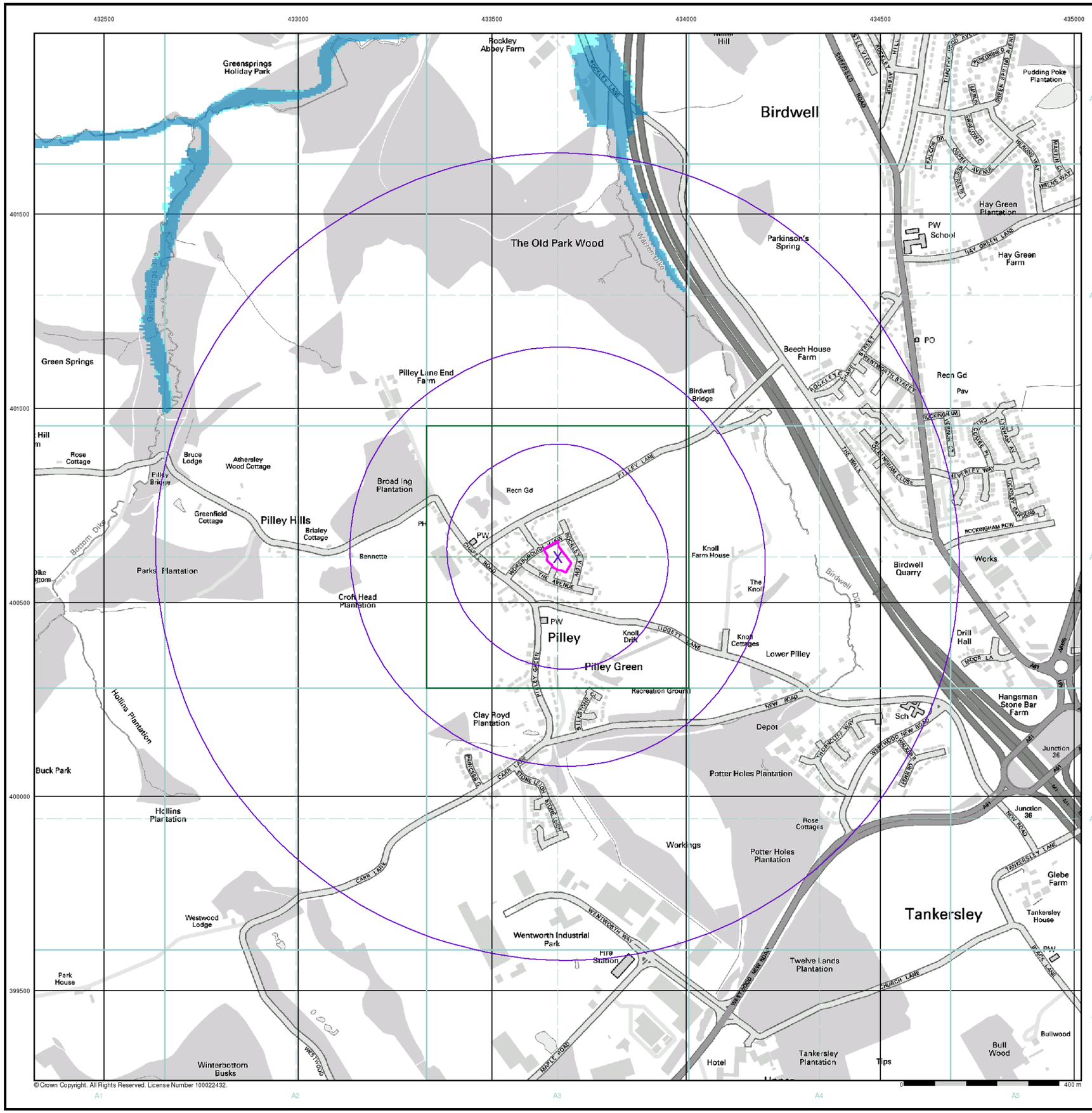
Order Details

Order Number:	40972380_1_1
Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN

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



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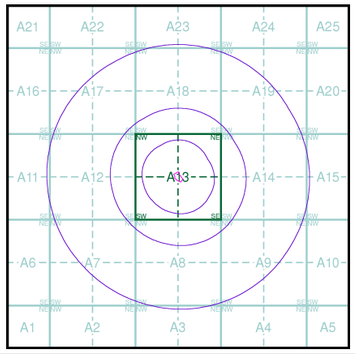
General

- 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



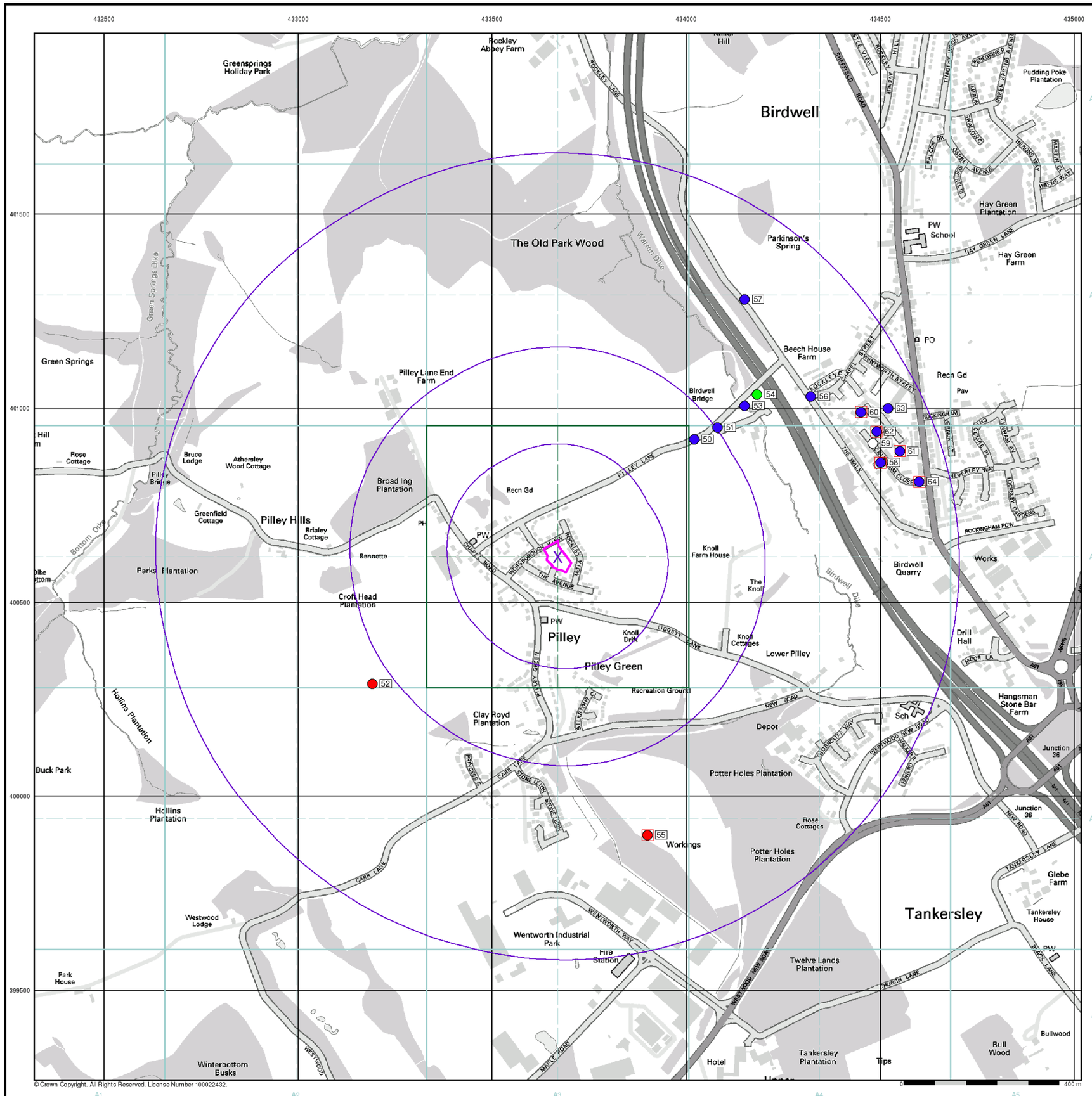
Order Details

Order Number:	40972380_1_1
Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN

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



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General

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

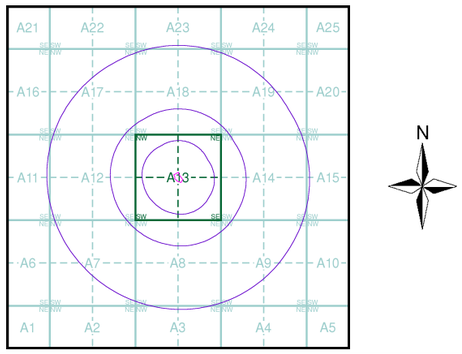
Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole datasheet 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:	40972380_1_1
Customer Ref:	CL2007
National Grid Reference:	433670, 400620
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details

The Avenue, Tankersley, Barnsley, S75 3AN

Landmark Information Group

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

APPENDIX C

MINING INFORMATION

The COAL AUTHORITY

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

LANDMARK INFORMATION GROUP LIMITED
SOWTON INDUSTRIAL ESTATE
ABBEY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY

Our reference:	**51000129579002**
Your reference:	**40972380**
Date of your enquiry:	**23 August 2012**
Date we received your enquiry:	**23 August 2012**
Date of issue:	**23 August 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

SITE AT: THE AVENUE, TANKERSLEY, BARNSLEY, SOUTH YORKSHIRE,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 7 seams of coal at 40m to 290m depth, and last worked in 1944.

Any ground movement from these coal workings should have stopped by now.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

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Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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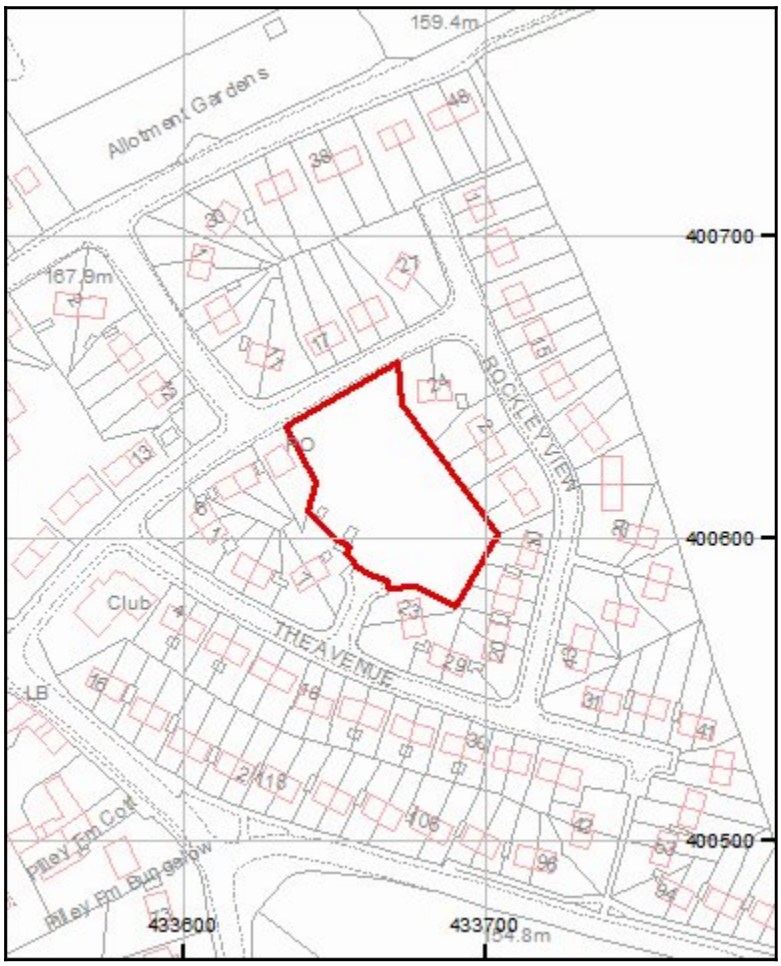
Location map

Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey



Figure C1: Development High Risk Area, Worsborough View, Pilley

Drawn: September 2012 Scale: See Scale Bar (approx 1:1000 @ A4)

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APPENDIX D

BGS BOREHOLE LOGS

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Report an issue with this borehole

<< < Prev Page 1 of 1 Next > >>

SE 30SW 102-106

Pilley Lane APPENDIX 1

BOREHOLE No. AND LOCATION	DEPTH From	DEPTH To	SOIL DESCRIPTION	SAMPLES Depth	SAMPLES Test and Result
1. 3402 0092 SE30SW/102			Carriageway crazed and worn		
	0	1"	Surface dressing		
	1"	4"	Crushed stone		
	4"	7"	Old road surface and crushed stone		
	7"	1'6"	Densely packed fine silty sand with broken sandstone fragments	7"-1'6"	Fm 12 P7 62 P200 26 CBR R 16 DD 121 m 11
2. 3408 0095 SE30SW/103	0	9"	Topsoil		
	9"	2'0"	Compact brown and grey silty sand and broken sandstone		
	2'0"	4'6"	Firm dark brown sandy clay with sandstone fragments	3'0"	Fm 17 LL 33 PI 9
	4'6"	5'6"	Soft weathered black carbonaceous shale	5'0"	Fm 31 LL 50 PI 11
	5'6"	10'0"	Stiff friable brown and grey silty clay with soft mudstone fragments	6'0" 8'0" 10'0"	Fm 26 LL 66 PI 31 Fm 17 LL 42 PI 22 Fm 18
			Hole dry		
3. 3415 0102 SE30SW/104	0	9"	Topsoil		
	9"	3'6"	Firm to stiff friable sandy and silty clay containing sandstone fragments	2'0"	Fm 20 LL 39 PI 13
	3'6"	7'6"	Large sandstone boulders in a matrix of sandy clay	5'6"	Fm 14 LL 32 PI 13

	7'6"		Too hard for further boring Hole dry	

British Geological Survey British Geological Survey British Geological Survey

SE 30 SW/24

E.4.—ROB ROYD COLLIERY.

Date of Sinking, 1896.

Lat. 53° 32′ 4″ N. **Long. 1° 30′ 4″ W.**

Height above O.D., 256·82 ft. **Dip of Strata, 1 in 9½**

British Geological Survey

		YD.	FT.	IN.	YD.	FT.	IN.
1	Strong clay	2	1	0			
2	Shaly clay	1	1	0			
3	Bind with ironstone	3	0	6			
4	Light coloured bind	4	1	6			
5	Stony bind	2	1	0			
6	Light coloured bind. Top of fault slip up S.	8	1	0			
7	Strong bind with ironstone balls, very jointy. Top of fault slip up N.	9	0	0			
8	Softer bind full of slip	4	1	8			
9	Bind with rock bands	3	1	10			
10	Blue bind	6	0	2			
11	Black shale	0	0	5			
12	Very dark bind	5	2	6			
13	**Joan Coal,** COAL	0	1	9			
					51	2	4
14	Spavin	0	1	10			
15	Black shale	0	0	4			
16	Strong spavin	0	1	0			
17	Rock and stone bind	0	1	10			
18	Bind with ironstone	1	1	0			
19	Very hard grey rock	1	1	0			
20	Bind with two rock bands	4	0	0			
21	Strong black shale with bands of stone	0	1	5			
22	Black shale	0	0	3			
23	COAL	0	0	2			
					60	2	2
24	Stone	0	0	3			
25	Strong black shaly bind	0	1	8			
26	Spavin	0	1	2			
27	Light bind (appearance of fault)	3	0	0			
28	**Tankersley Ironstone.** Blue bind with ironstone	8	1	11			
29	**Flockton Thick Coal**—						
	FT. IN.						
	COAL (top 3 inches brassy) 2 3						
	Spavin with ironstone nodules 3 7						
	Bottom COAL 1 3	2	1	1			
					75	2	3
30	Soft dark spavin	0	0	7			
31	Stony spavin	1	0	0			
32	Strong bind	1	1	10			
33	Hard grey rock	0	2	0			
34	Strong stone bind	5	2	10			
35	Black bind	0	0	3			
36	Stone bind with ironstone	0	2	10			
37	Black shale	0	0	2			
38	Rock and bind	1	1	5			
39	Grey and brown rock	5	0	2			
40	Light bind	1	2	6			
41	Blue bind	8	1	4			
42	**Flockton Thin Coal**—						
	FT. IN.						
	COAL 0 5						
	Black stone or bad cannel 0 8						
	COAL 0 3						
	Black stone or bad cannel 0 8						
	COAL 0 3						
	Light fireclay 0 2½						
	COAL 0 2						
	Black stony COAL 1 0						
	COAL 0 3						
	Light spavin 1 7						
	Bright COAL 0 10½	2	0	4			
					105	0	6
43	Dark spavin	0	1	4			
44	Light spavin with ironstone balls	2	2	10			
45	Bind with ironstone	0	1	10			
46	Strong stone bind	2	1	2			
47	Bind with ironstone	2	0	6			
48	Strong stone bind with large balls of ironstone and cank	5	2	3			
49	Blue bind	3	2	2			
50	**Fenton Coal**—						
	FT. IN.						
	Bright COAL 0 4½						
	Parting – –						
	Bright COAL 0 5						
	Parting – –						
	Bright COAL 0 6						
	Parting – –						
	Bright COAL 1 8½						
	Spavin 1 7						
	COAL 0 8						
	Black shale 0 2						
	COAL 1 2						
	Shaly spavin 0 5						
	COAL 0 10						
	Dirt 0 0½						
	COAL 0 1½	2	0				
					125	2	7
51	Spavin	0	0	7			
52	Strong stone bind with rock and cank	4	0	2			
53	Bind	1	2	4			
54	COAL	0	0	11			
					132	0	7

E.4.—ROB ROYD COLLIERY.—*Continued.*

		YD.	FT.	IN.	YD.	FT.	IN.
55	Spavin	0	1	2			
56	Cank	0	0	9			
57	Stony spavin	1	0	7			
58	Softer spavin	1	1	0			
59	Stony spavin	0	1	2			
60	Bind	0	1	0			
61	Cank	0	0	9			
62	Bind	0	2	7			
63	Stone bind	2	2	3			
64	Blue bind	2	0	0			
65	Strong grey rock	6	2	7			
66	**Parkgate Coal**—						
	FT. IN.						
	Tender COAL (Bright) 0 2½						
	Bright Hards 1 1½						
	Dull Hards 1 4						
	Middle dirt 1 3½						
	Bottoms (Bright) 1 0						
	Bottoms (Tender) 0 2½	1	2	2			
					150	1	7
67	Spavin	0	0	7			
68	Stony spavin	0	1	7			
69	Rock	1	0	3			
70	Strong bind	5	1	10			
71	Bright COAL (good)	0	0	7½			
					158	0	5½
72	Spavin	0	1	6½			
73	Light bind	3	2	7			
74	Stone bind	3	0	0			
75	Bind with ironstone bands	2	1	2			
76	Bind	2	1	8			
77	**Thorncliffe Coal**—						
	FT. IN.						
	COAL 1 9						
	Light spavin 1 2						
	Soft COAL 0 10	1	0	9			
					171	2	2
78	Spavin	0	0	8			
79	Grey stone	1	0	9			
80	Stone bind and rock	1	0	8			
81	Grey stone	0	1	11			
82	Ironstone band	0	0	2			
83	Light spavin	0	1	9			
84	Strong grey stone	2	1	0			
85	Strong stone bind with ironstone	3	2	11			
86	Bind with ironstone	1	2	7			
87	**Seam of Coal**—						
	FT. IN.						
	COAL and dirt 0 5						
	Bright COAL in thin layers 0 6	0	0	11			
					184	0	6
88	Soft spavin (dark)	0	0	4			
89	Hard stony spavin	0	1	9			
90	Stone bind with ironstone	1	0	0			
91	Stone and stone bind	1	2	0			
92	Soft or shaly spavin	0	1	8			
93	Black shale	0	0	5			
94	Strong spavin	0	2	3			
95	Stone and stone bind	4	0	10			
96	Hard rock and cank	6	1	3			
97	Stone bind	0	1	6			
98	**Silkstone Four Foot Coal,** COAL	0	1	2			
					200	1	8
99	Spavin	1	1	0			
100	Bind and ironstone	5	0	9			
101	Black bind	0	0	9			
102	Spavin	0	0	4			
103	Stone and stone bind	0	2	6			
104	Rock	2	1	0			
105	Stone bind	0	1	2			
106	Dark bind	0	1	3			
107	Spavin	0	0	6			
108	Dark bind with ironstone	1	0	11			
109	Stone bind	0	0	7			
110	Stony spavin with ironstone	0	0	5			
111	Rock	1	0	3			
112	Stone bind with ironstone	1	1	0			
113	Bind with ironstone	5	1	11			
114	Bind	4	1	10			
115	Black shale	0	0	2			
116	Soft dark bind	0	0	3			
117	Dark bind with ironstone	1	0	0			
118	COAL	0	0	2½			
					227	0	5½
119	Spavin	1	2	11½			
120	Stone bind with thin rock bands	1	1	11			
121	Bind with thin rock bands	2	1	6			
122	Stone bind with rock bands	0	1	6			
123	Light bind with ironstone	2	2	6			
124	**Silkstone Coal**—						
	FT. IN.						
	Top COAL 1 11½						
	Dirt and drub 0 6½						
	Bottom COAL 1 10						
	Seat COAL 0 4	1	1	8			
					238	0	6
125	Strong spavin	0	1	2			
126	Strong stony spavin	1	1	4			
127	Very hard rock	4	0	11			
128	Strong stone bind with ironstone	1	0	6			
129	Bind	1	2	0			
					247	0	5

APPENDIX E

SITE RECONNAISSANCE PHOTOGRAPHS

	**Photograph 1 (facing SW):** The site was accessed from The Avenue.
	**Photograph 2 (facing SW):** The site is mainly grass, with a hardstood area to the south west and west.
	**Photograph 3 (facing W):** Hardstood area to the west and south west of the site.

	**Photograph 4 (facing SW):** Five garages to the west of the site.
	**Photograph 5 (facing SW):** Manhole cover to the west of the site.
	**Photograph 6 (facing S):** Manhole cover in the centre of the site.

	**Photograph 7:** Manhole cover.
	**Photograph 8:** Manhole cover.
	**Photograph 9 (facing SW):** Drain towards the west of the site.

	**Photograph 10 (facing SW):** Drain towards the south west of the site.
	**Photograph 11 (facing SE):** Telegraph pole towards the north of the site, with an overhead cable across the north of the site.
	**Photograph 12 (facing WSW):** Lamp post towards the south west of the site.