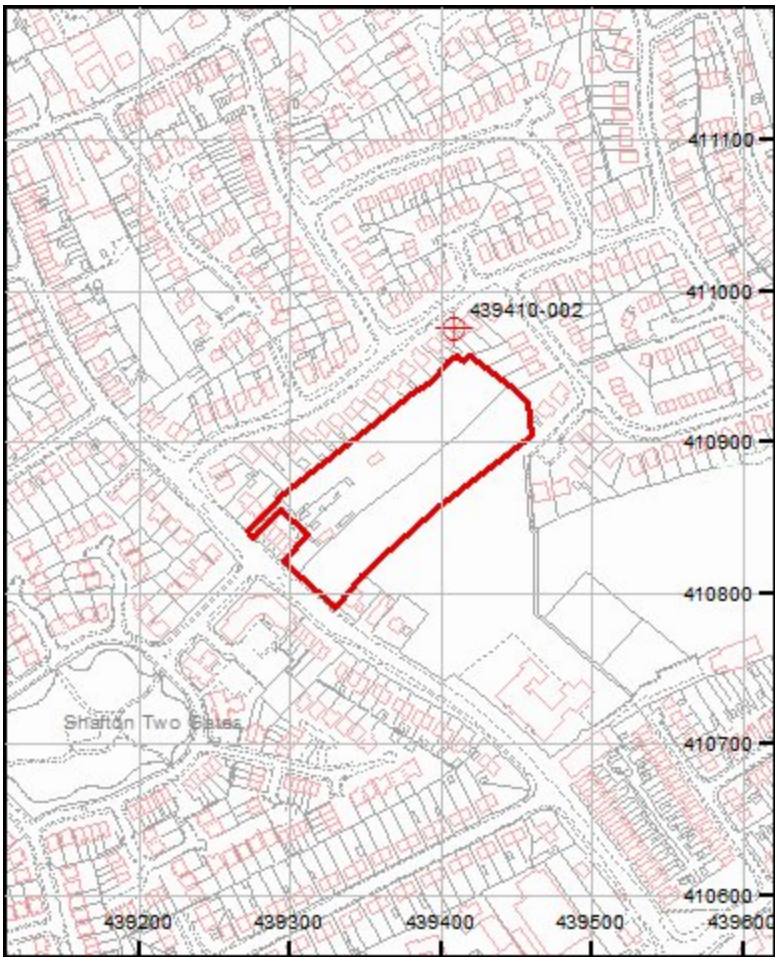
Location map

Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Disused Adit or Mineshaft

Mapping sourced from Ordnance Survey

Our Ref: 15-204.01L
Your Ref:

Darren Oldham
Oldham Access Services
81 Hall Ing Lane
Honley
HD9 6QW

Solum House
Unit 1 Elliott Court
St John's Road
Meadowfield
Durham
DH7 8PN

24th March 2015

Dear Sirs,

RE: Shallow Coal Mining Risk Assessment & Coal Recovery Report – Land off High Street, Shafton, Barnsley, S72 8NG

Further to your recent request, please find below our evaluation on the likelihood of shallow coal workings being present below the above site. I have based my assessment on the following data sources:

- BGS Published Geology, Barnsley, 1:50,000 Series (Solid & Drift Edition) Map Sheet 87
- Coal Authority Mining Report 51000808329001, 24th March 2015 (attached)
- Historical Boreholes records from BGS, located in a similar geological setting as possible (attached)
- Digital copy of geological plan (attached)
- Copy of shaft recorded for Hodroyd Colliery (attached)

Site Geology

A summary of site geology is shown in the table below:

MADE GROUND / FILL	**Comments**
Type:	No Artificial Ground recorded on published geological plans
Thickness:	~
DRIFT	**Comments**
Type:	Published records indicate the site in an area free from drift (i.e., superficial deposits are thin or absent)
Thickness:	Superficial deposits are felt to be thin, as solid outcrop shown on site.
SOLID	**Comments**
Type:	Carboniferous Middle Coal Measures. Sandstone outcrop to south and mudstone to north.
Remarks:	Cyclical alternations of Sandstone, Mudrocks (siltstone, mudstone & shale), non-productive Coal Seams and Seat Earths/ Fire Clays deposited during the Carboniferous period.
Structural Faults or Abnormal Features:	According to published geological plans there are no faults or abnormal features within influencing distance to the site.

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W: www.arc-environmental.com
Registered in England No. 05539784

Shallow Coal Mining Assessment

A summary of recorded and inferred mining below the site is discussed below:

According to the Coal Authority (CA) report they have records of workings in 6 seams of coal at 330m to 560m, last date of working in 1963, with any ground movement from these workings having been ceased by now.

Although the site lies in a Coal Reporting Area, it does not lie in a CA defined Development High Risk Area and no shallow coal is noted by the Coal Authority.

The shallowest coal seam is recorded as the Shafton coal seam, which outcrops around 400m to the SW, trending NE i.e., below the site. According to shaft details for Hodroyd Colliery, located c. 1500m to the east, the Shafton seam is 1.45m thick in this region. Interpolation of outcrop patterns and seam dips estimate the Shafton seam to be at least 50m to 60m below the site.

The CA also note there are records of one former mine entry on or within 20m of the site. This is noted to lie a minimum of 12.5m from the sites extreme northern boundary. In addition this is shown to lie around 21.5m from the nearest proposed new dwelling, as shown on the Proposed Site Layout drawing 13-D95-04 provided.

Although the degree of accuracy on the shaft position is not known (also recorded as departure), given that the site is shown to lie in an area of thin or absent superficial drift and there are no planned structures within 9m of the sites boundary, the risk of collapse of the shaft affecting proposed new structures is felt to represent a negligible risk to this site.

In addition, as the shaft is recorded off-site with no recorded superficial drift present, the risk of any mine gas migration from the shaft affecting the site is felt to be negligible.

Coal Recovery Assessment

The site lies in the “active coalfield” as defined by the Coal Authority.

From the above review it can be seen that there are no shallow coal seams present below the site and it is our opinion that any excavations will not encounter any coal seams and therefore it will not be viable to remove coal from below the site.

Conclusions

From the above review, it can be seen that the shallowest coal seam below the site is recorded as the Shafton seam, which has been calculated to lie at a depth in excess of 50m below the site.

A former abandoned shaft is shown to lie c. 12.5m to the north of the site. Given that high rockhead is noted on published geological maps and the closest planned new structures are shown to lie at least 9m from the sites northern boundary, the risk of potential influence from the recorded adjacent mine entry is felt to be negligible.

It is therefore concluded that the site represents a negligible risk in terms of shallow coal workings and mine entry influence.

I trust the above review is adequate for you, however, if you require any further information or clarification, please let me know.

Yours Sincerely



……
For and on behalf of Arc Environmental Ltd
Kevin C. Moir
BSc (Hons) MSc CGeol CSci FGS MICE MCMI
Director

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SE 41 SW/12 NE 87/51

(B11857) Wt. 17862—S154—5,000 12/58 Sp. 1064 O.A.

SECTION OF Hodroyd Colliery **at** Brierley. 200 yds. S. of Br[illegible] Church. 182·88

Maps: One-inch 87 106·98 Six-inch 263 SW. County Yorkshire.

Height above O.D. 351 ft. Latitude 53° 35′ 30″N Longitude 1° 22′ 51″W.

Communicated by Sec. Strata Yks. Clfld 1927 p. 176 Date of Sinking 1910-12

Made by Dip of Strata 1 in 17 N 79 E

Summary of published record:-

		Thickness.			Depth from Surface.		
	Surface strata (Drift)	3·20	10	6	3·20	10	6
Brierley or Hodroyd Rock	Red sand rock with marl bands in [illegible]	11·20	36	9	14·40	47	3
	Coal measures with thin coals + rock bands to						
	Shafton Coal	1·45	4	9	196·04	643	2
	Stone bind or sparvin	8·03	26	4	204·06	669	6
Roysto[illegible] or Top of Marsden Rock	Grey rock (bottom of shaft)	1·52	5	–	205·59	674	6

Details of sandstone bands:-

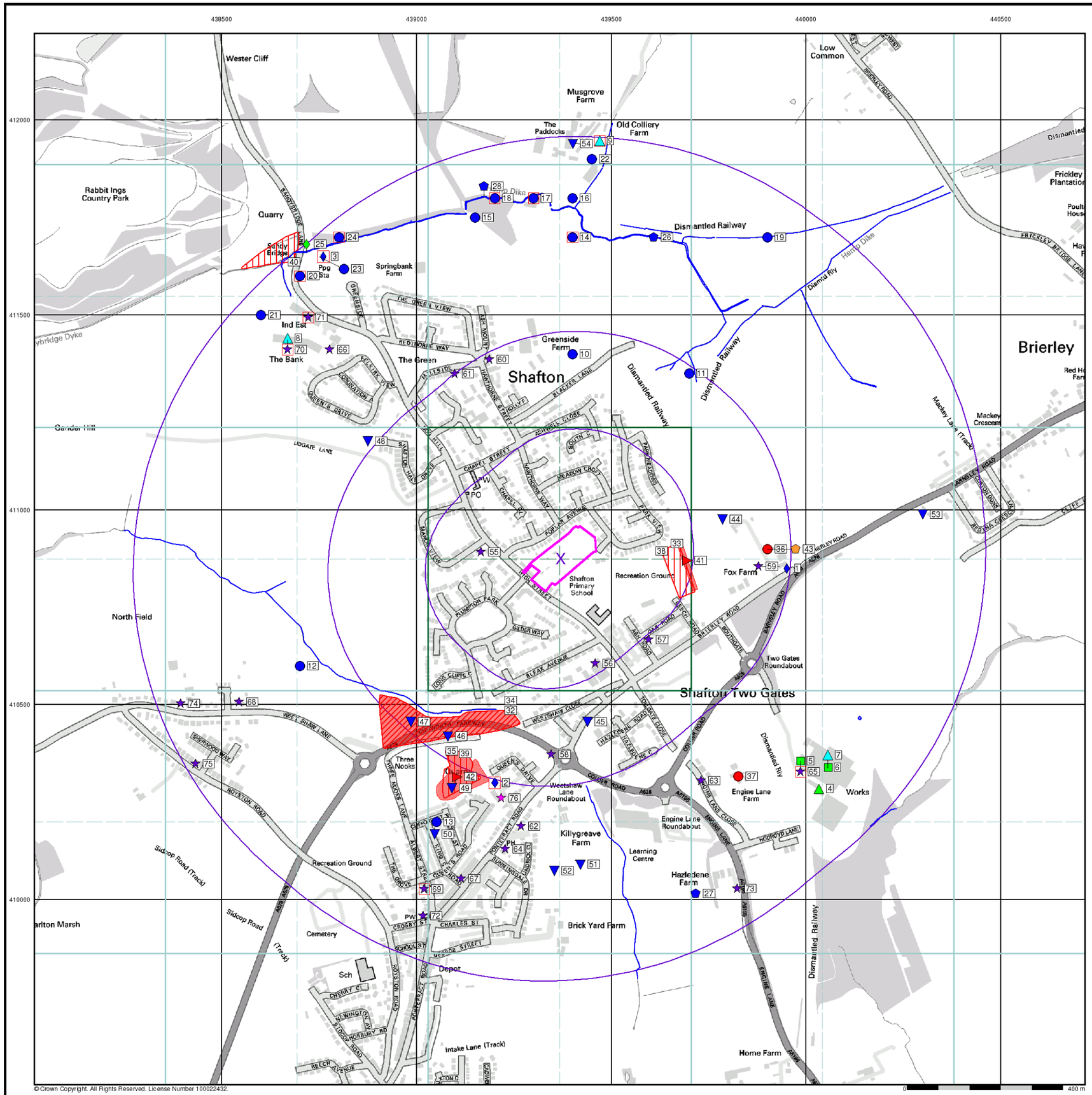
Grey rock	3·05 10′0″	to 85′9″	26·14
Rock	3·45 11′4″	to 199′5″	60·78
Rock	2·90 9′6″	to 446′4″	136·04
Rock	5·10 16′9″	to 470′2″	143·31
Grey rock	4·98 16′4″	to 520′2″	158·55
Rock	5·16 16′11″	to 563′10″	171·86
Rock	6·20 20′4″	to 636′1″	193·88

60·96


Source: USGS
Source: NASA, NGA, USGS
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
147m
esri

APPENDIX III

Landmark Envirocheck Report



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

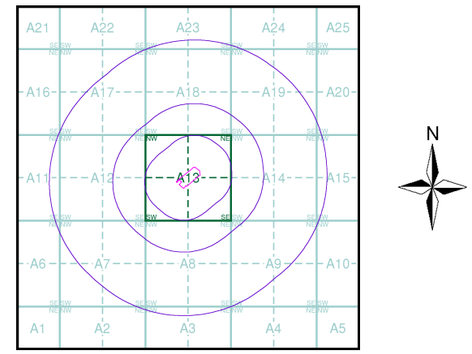
Waste

- 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:	67788698_1_1
Customer Ref:	15-204
National Grid Reference:	439370, 410870
Slice:	A
Site Area (Ha):	1.4
Search Buffer (m):	1000

Site Details

High Street, Shafton, BARNSLEY, South Yorkshire, S72 8NG

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



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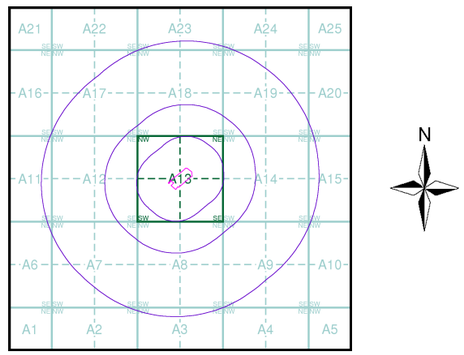
General

- 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



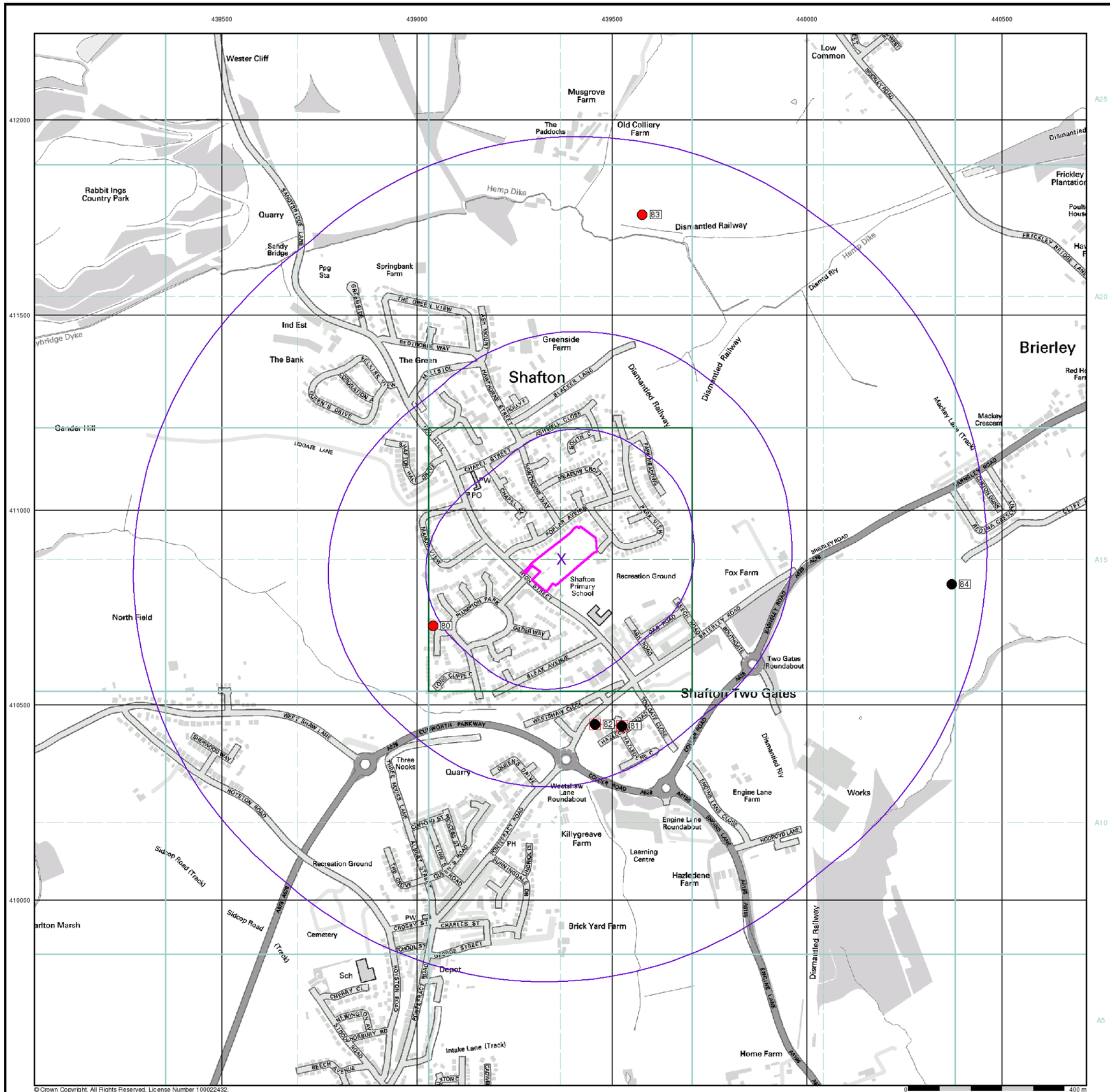
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General

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

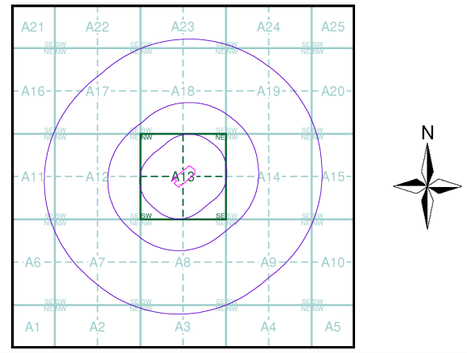
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



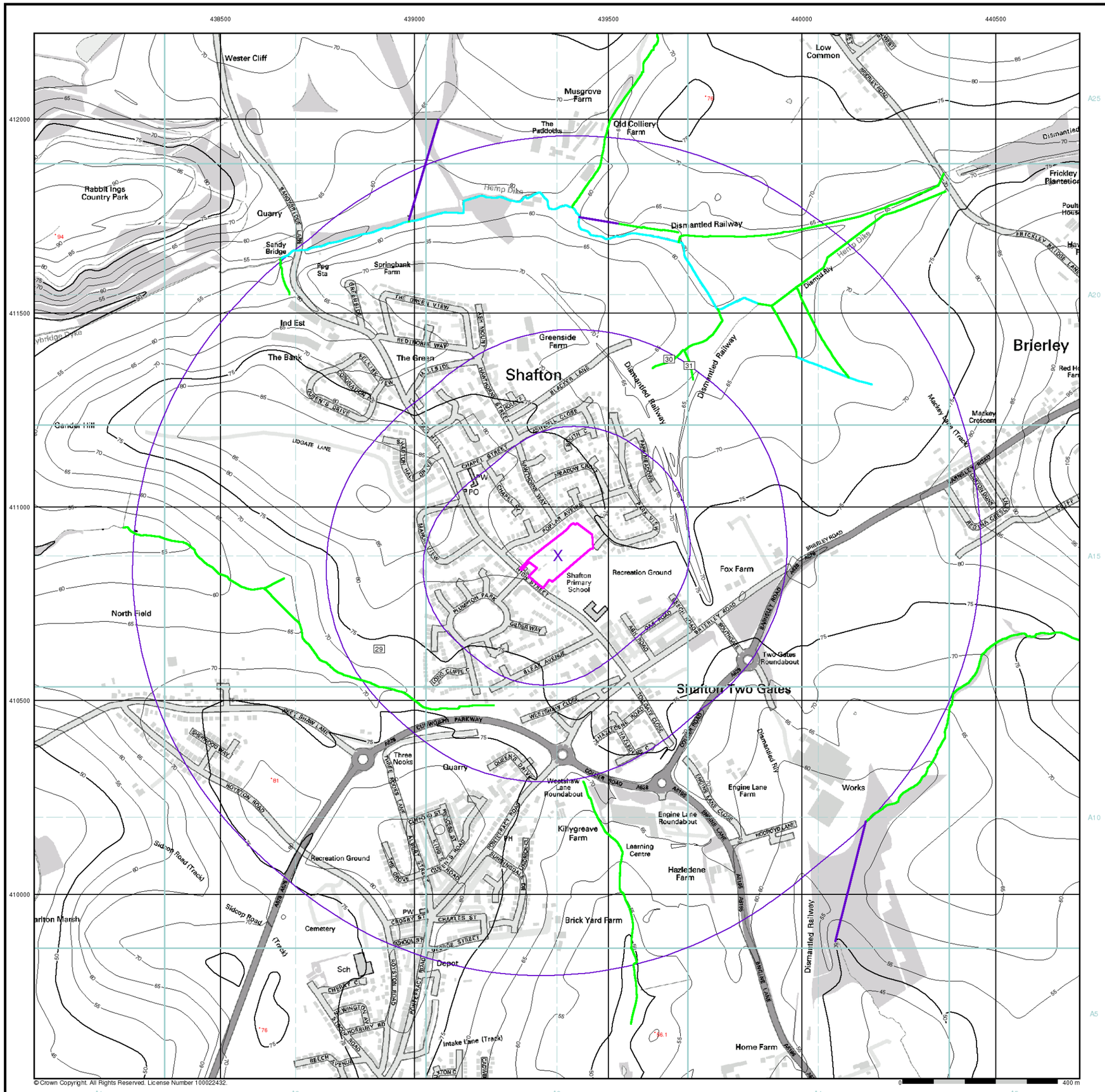
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General

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

Detailed River Network Data

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

Contours (height in metres)

Standard Contour — 105 — 100 — 95

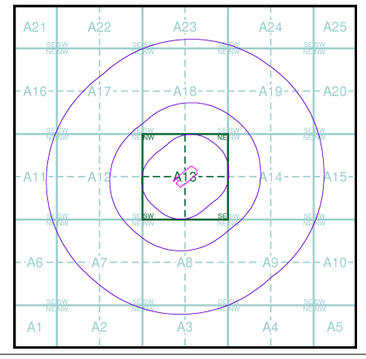
Master Contour

Spot Height *167.3

MLW Mean Low Water

MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



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Order Number:	67788698_1_1
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General

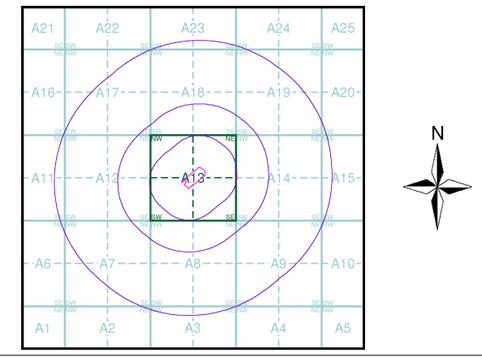
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



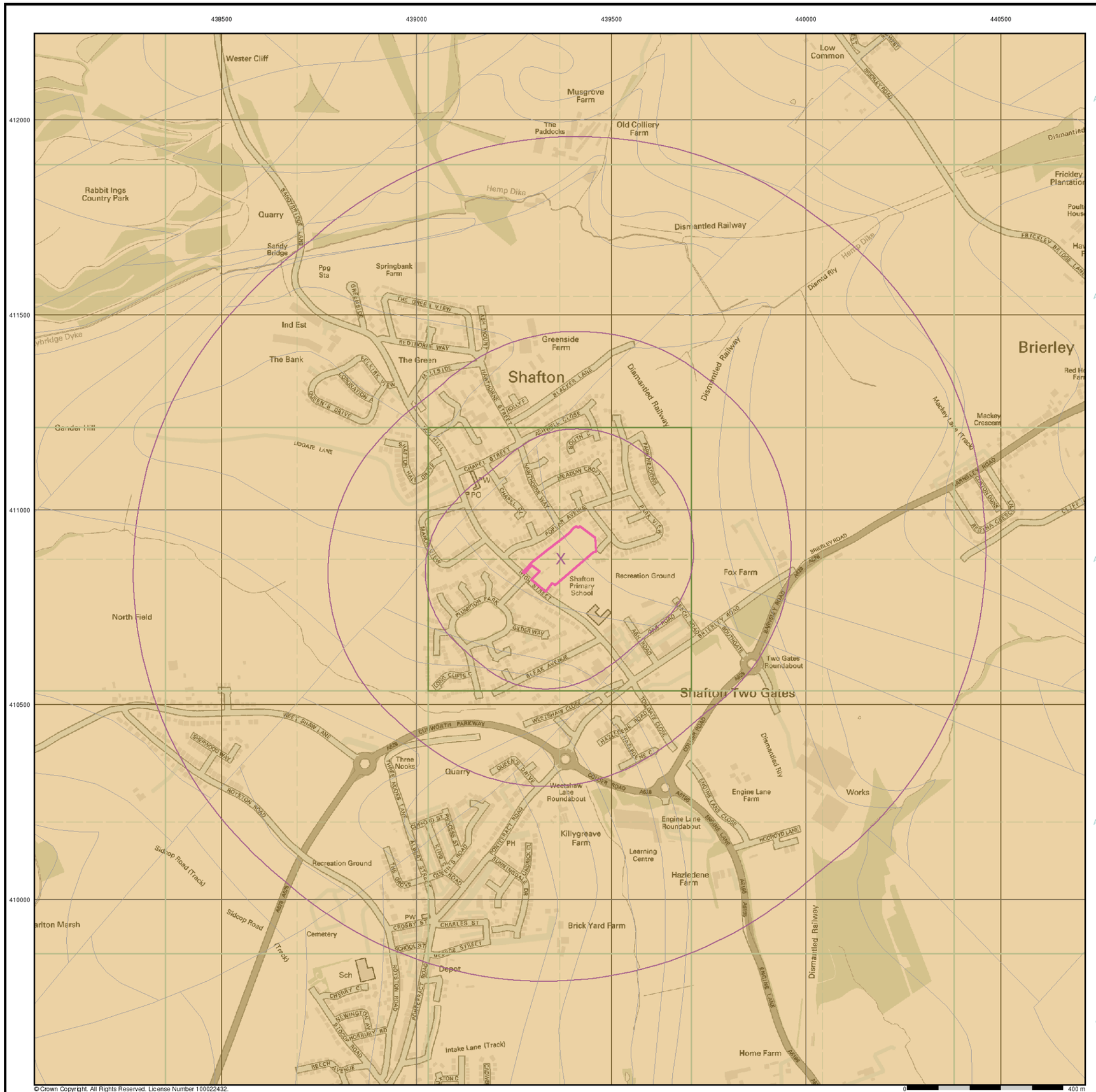
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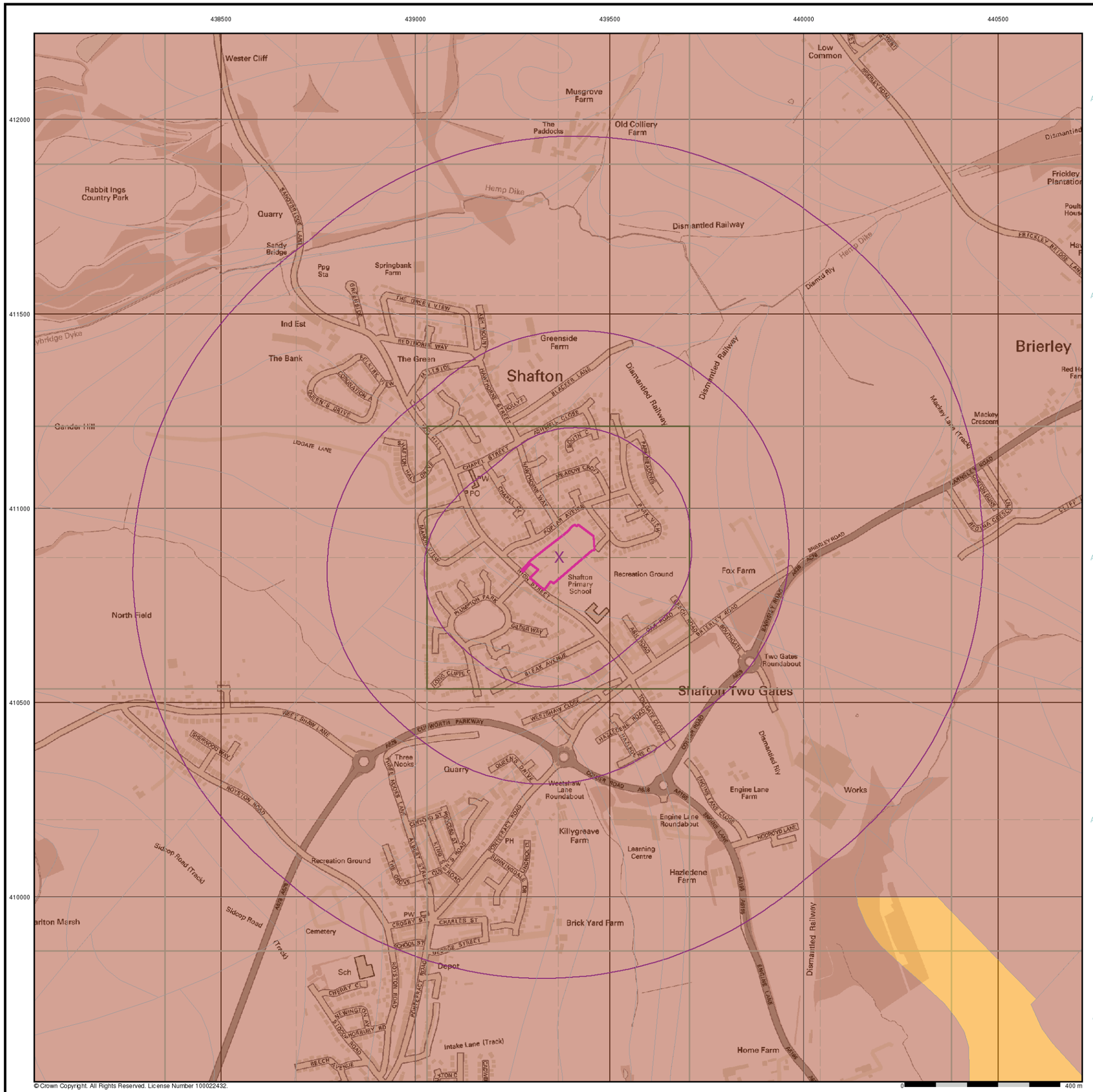
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438500
439000
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411500
411000
410500
410000
A25
A20
A15
A10
A5
A1
A2
A3
A4
A5
Wester Cliff
Musgrove Farm
Low Common
The Paddocks
Old Colliery Farm
Rabbit Ings Country Park
Quarry
Hemp Dike
Dismantled Railway
Frickley Plantation
Sandy Bridge
Ppg Sta
Springbank Farm
Ind Est
Greenside Farm
Brierley
The Bank
The Green
Shafton
Gander Hill
Mackey Crescent
Shafton Primary School
Recreation Ground
Fox Farm
North Field
Two Gates Roundabout
Shafton Two Gates
Three Nooks
Weetshaw Lane Roundabout
Engine Lane Farm
Works
Killygreave Farm
Learning Centre
Engine Lane Roundabout
Hazledene Farm
Recreation Ground
Cemetery
Brick Yard Farm
Depot
Sch
Intake Lane (Track)
Home Farm
Dismantled Railway
Sidcop Road (Track)
Sidcop Road
Barnsley Road
Royston Road
Cudworth Parkway
Wentworth Road
Engine Lane
Hoyroyd Lane
Chapel Street
Church St
Charles St
Crosby St
School St
Queen's Road
Princess St
Albert St
Victoria St
Pontefract Road
Sunningdale Dr
Lidgate Lane
Bleaker Lane
Ashfield Close
Hampshire Way
Peabody Croft
Park View
Poplar Avenue
Gilderway
Plumpton Park
Abbey Road
Bleak Avenue
Cherry Cl
Newington Rd
Woodhouse Road
Beech Avenue
Three Nooks Lane
Weetshaw Close
Hazledene Rd
Hazledene Cl
Engine Lane Close
Osborne Gdns
Redcar Cres
Cliff Rd
Mackey Lane (Track)
Dismantled Rly
Hemp Dike
Diamd Rly
Frickley Ridge Lane
Sandybridge Lane
Greenside
The Green View
Redthorne Way
Coronation Av
Queen's Drive
Hampshire Street
Ashfield Close
Park Avenue
Park Crescent
Park View
Chapel Rd
Pontefract Rd
Sherwood Way
Royston Road
Cudworth Parkway
Weetshaw Lane
Queen's Drive
Princess St
Albert St
Victoria St
Queen's Road
The Grove
Pontefract Road
Sunningdale Dr
Crosby St
Charles St
School St
Church St
Barnsley Road
Engine Lane
Hoyroyd Lane
Engine Lane Close
Weetshaw Close
Hazledene Rd
Hazledene Cl



General

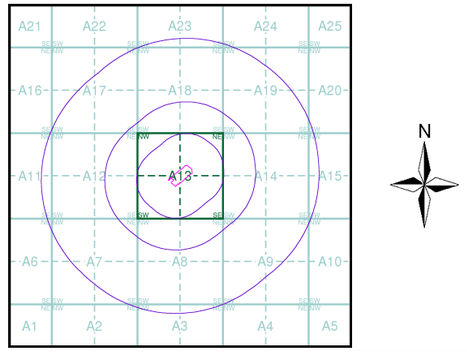
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

< 20
20 - 40
40 - 60
60 - 90
90 - 120
120 - 180
> 180

Estimated Soil Chemistry Chromium - Slice A



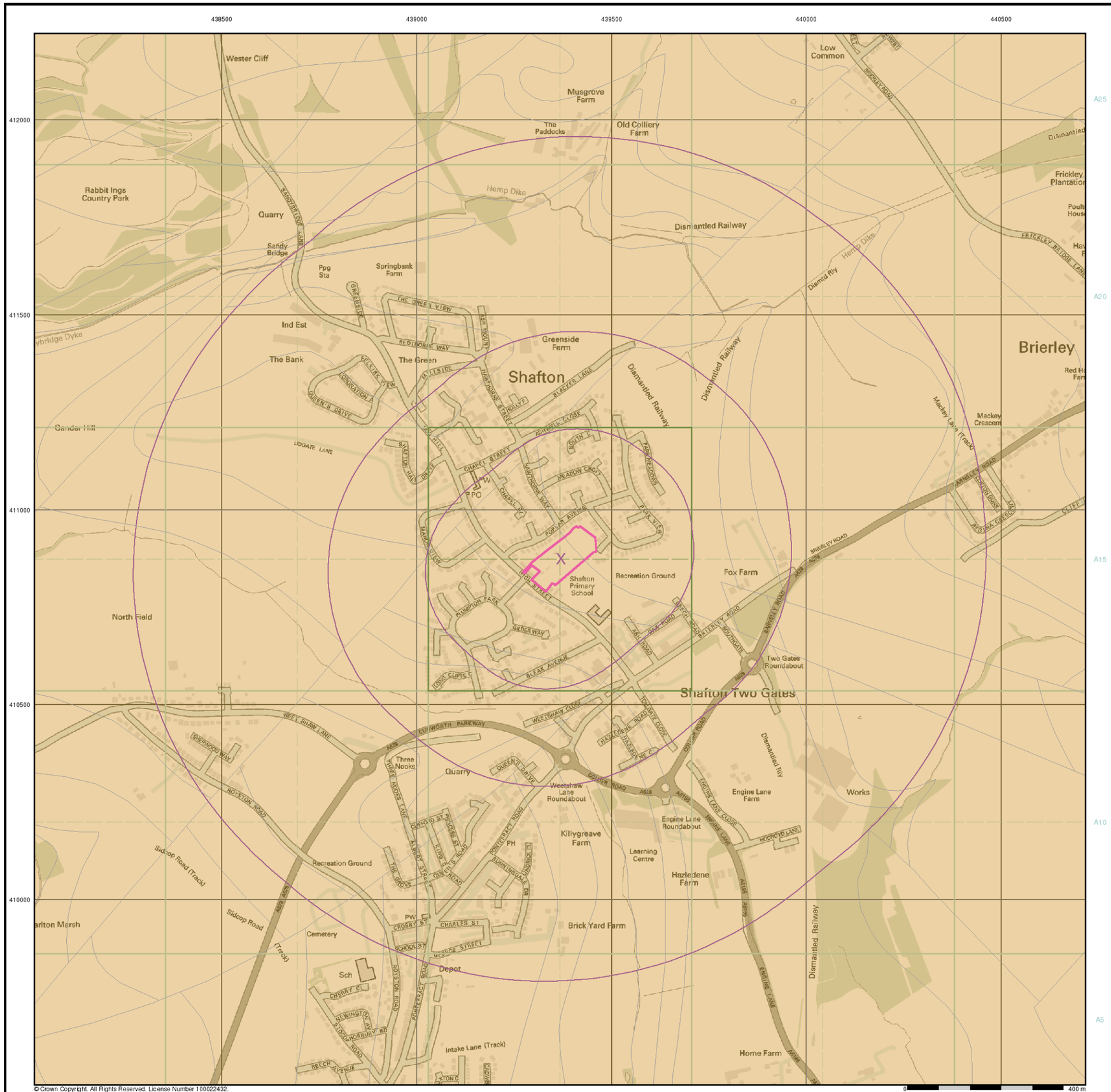
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General

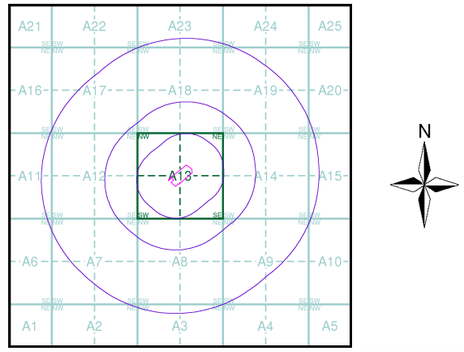
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details:	67788698_1_1
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General

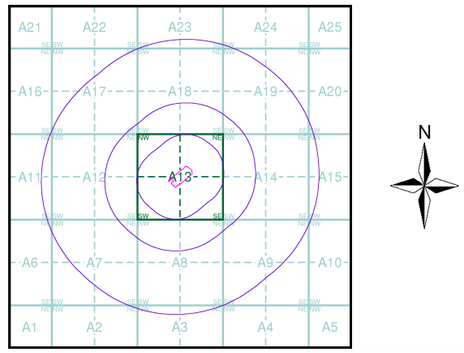
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



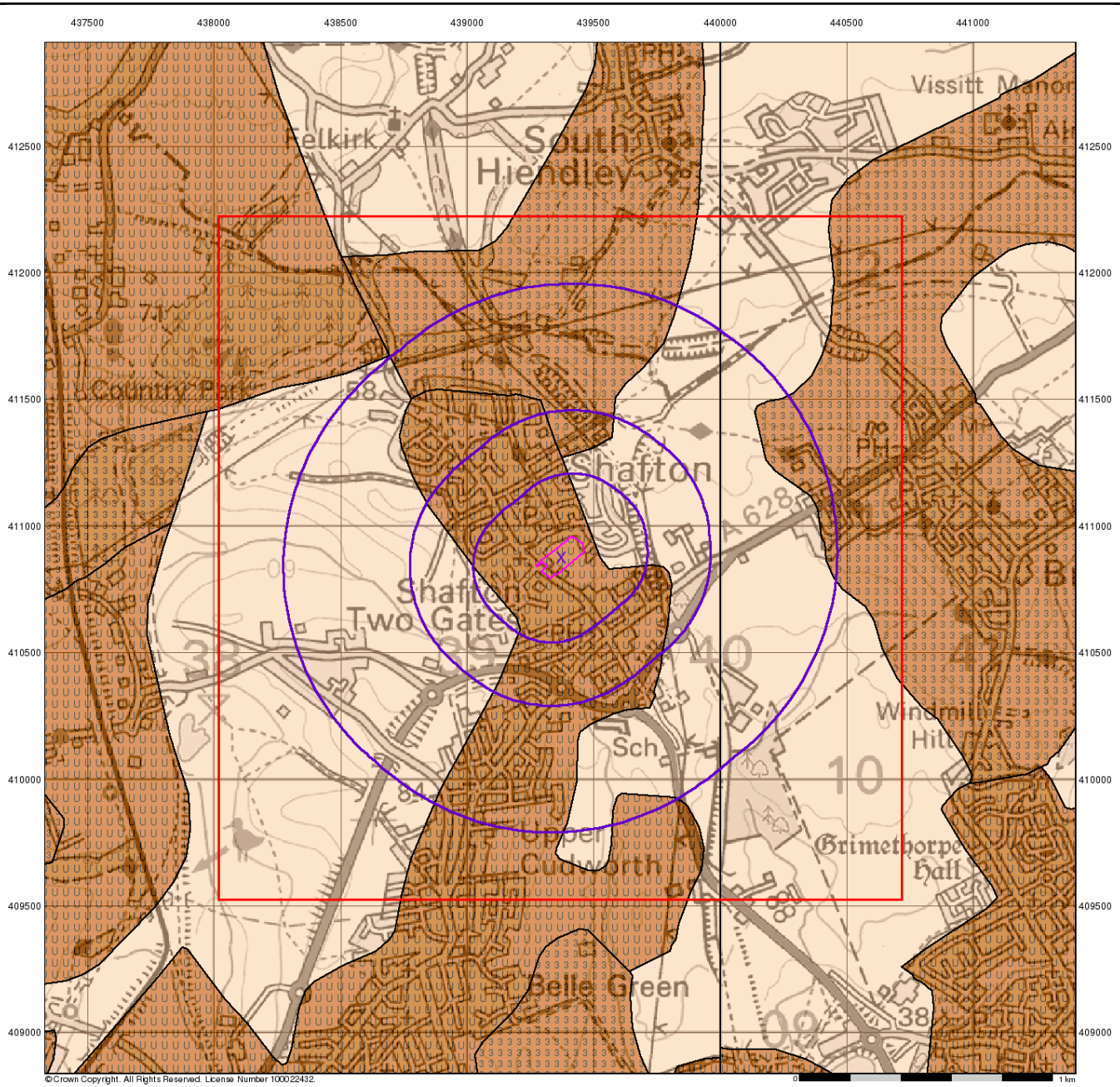
Order Details

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Site Details

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Groundwater Vulnerability

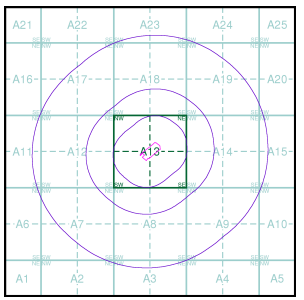
General

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



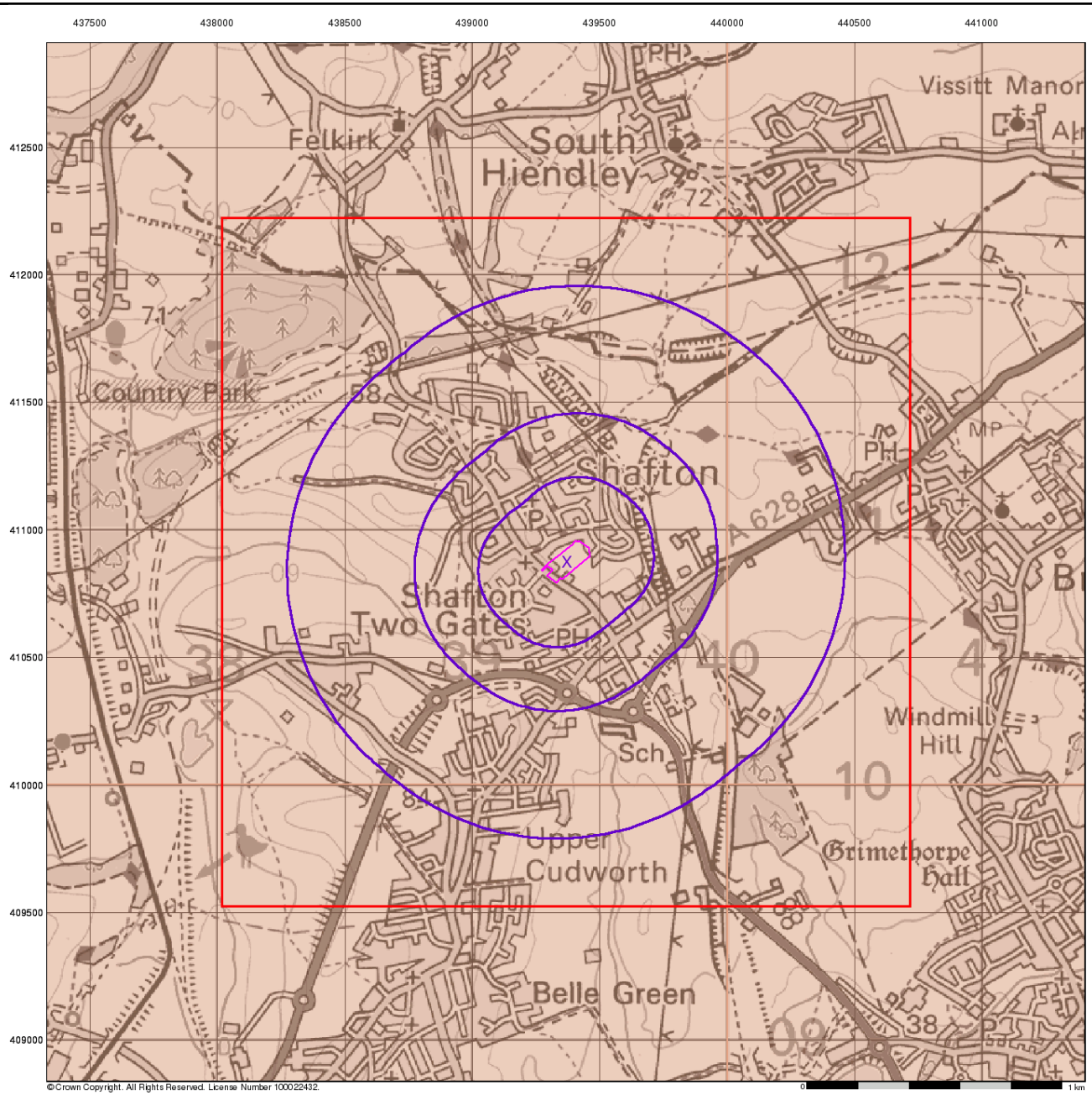
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Bedrock Aquifer Designation

General

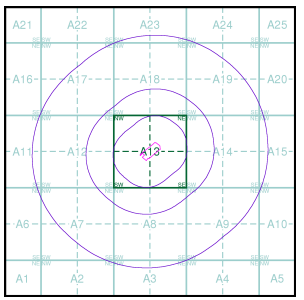
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

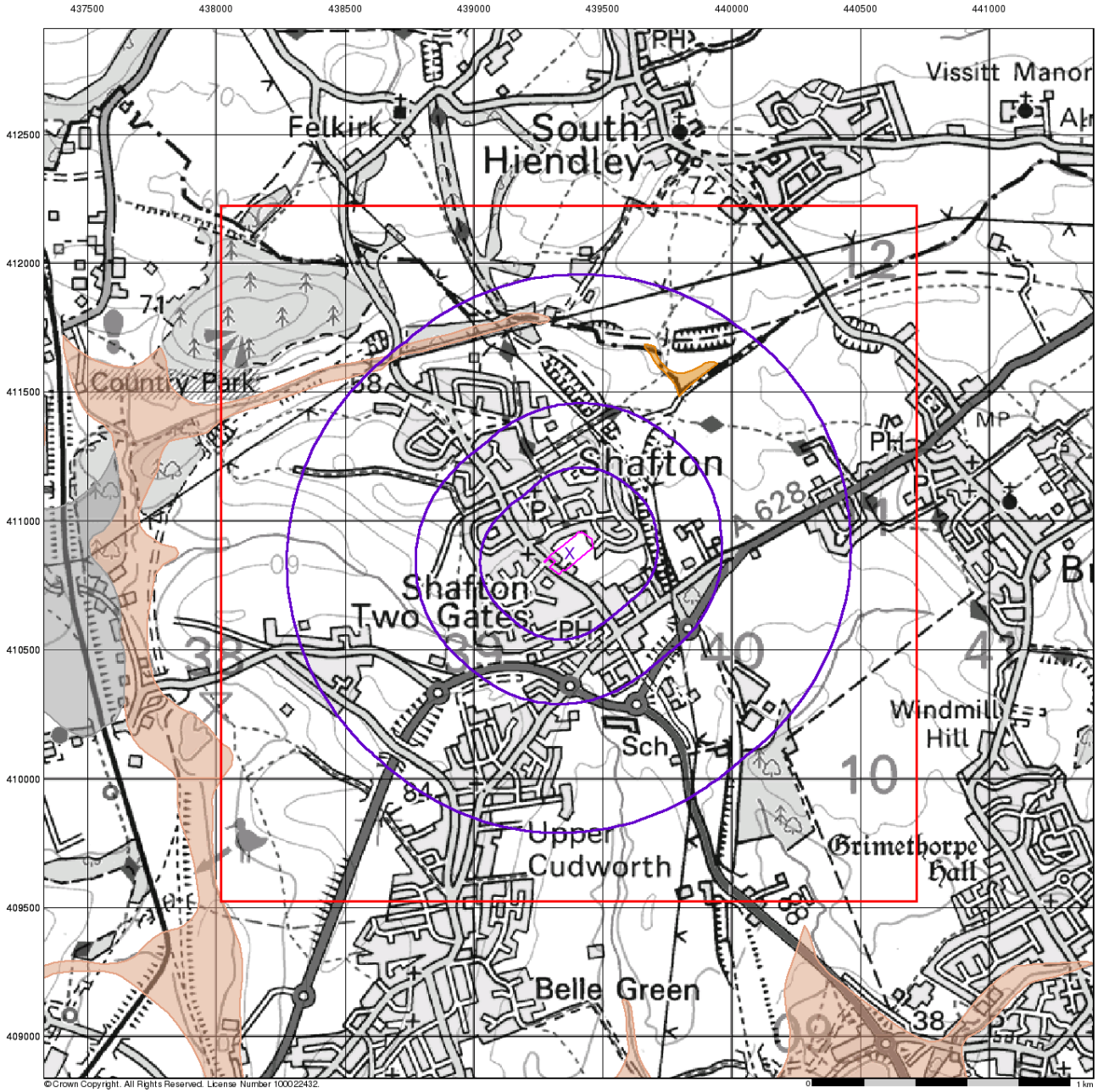


Order Details

Order Number:	67788698_1_1
Customer Ref:	15-204
National Grid Reference:	439370, 410870
Slice:	A
Site Area (Ha):	1.4
Search Buffer (m):	1000

Site Details

High Street, Shafton, BARNSLEY, South Yorkshire, S72 8NG



Superficial Aquifer Designation

General

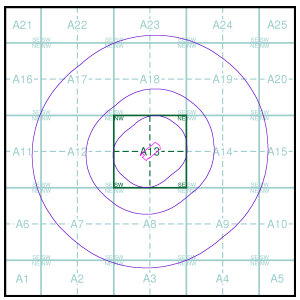
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



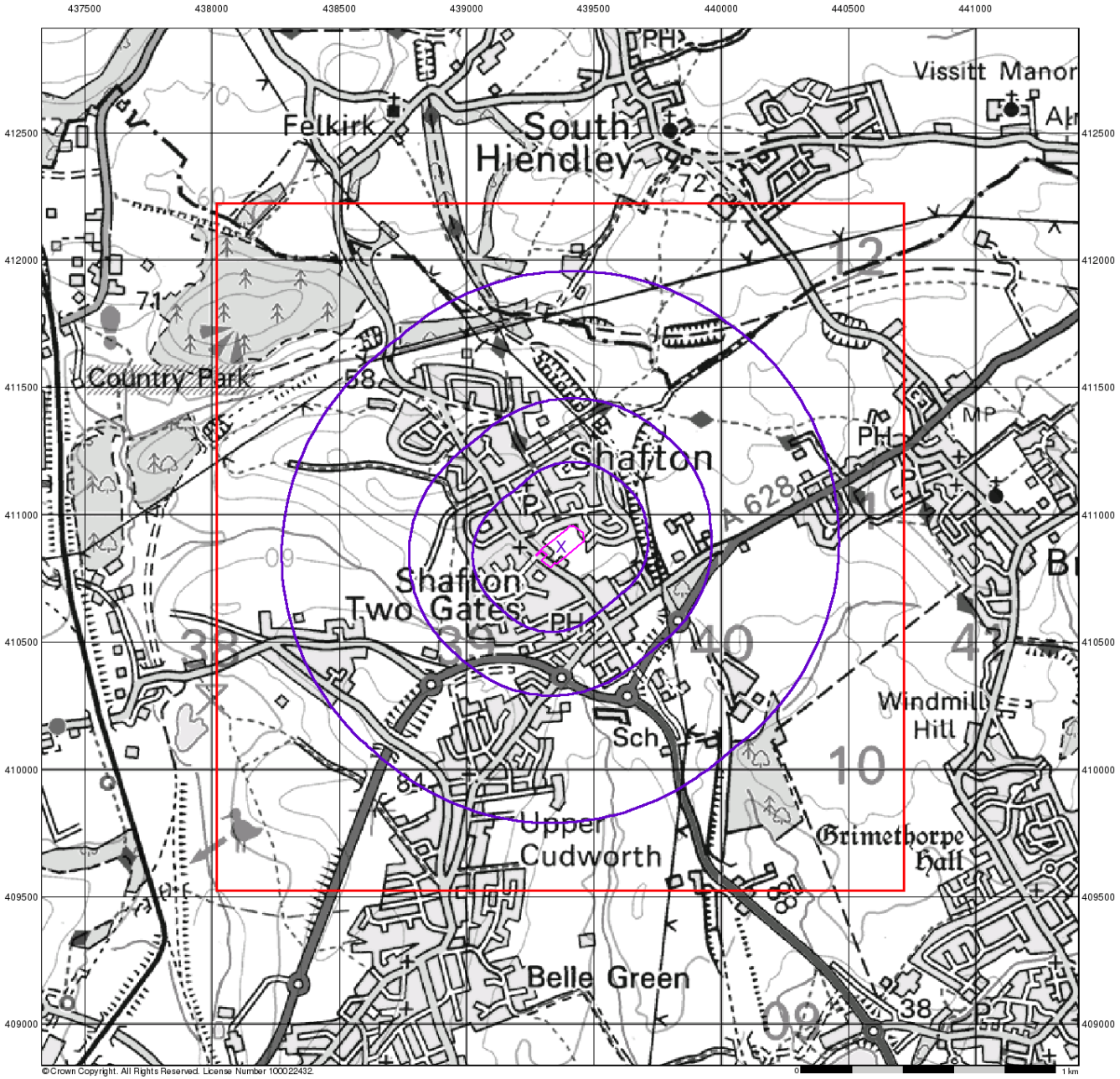
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Source Protection Zones

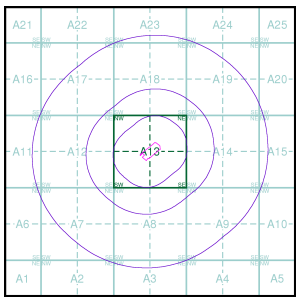
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



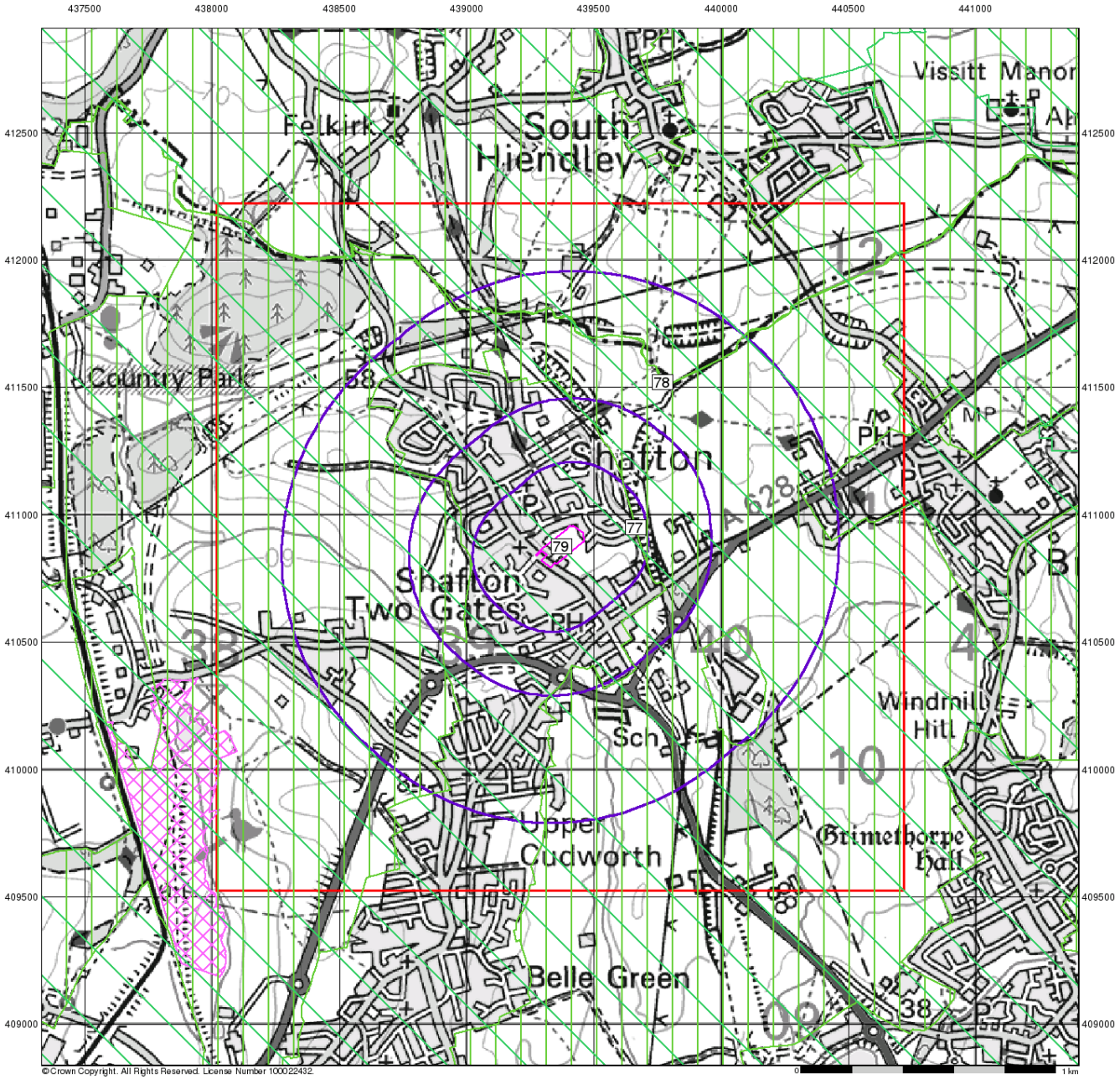
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Sensitive Land Uses

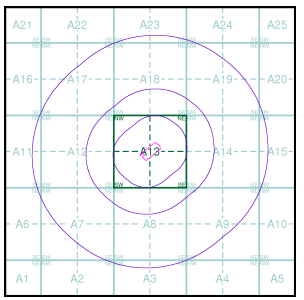
General

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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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

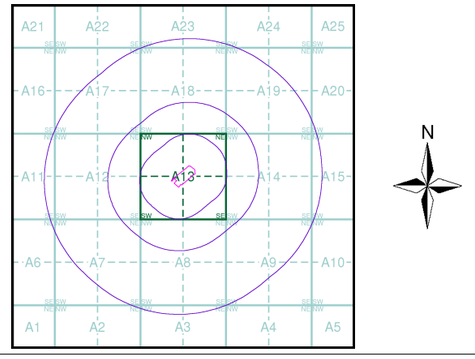
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

arc environmental

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1894	3
Yorkshire	1:10,560	1907	4
Yorkshire	1:10,560	1933	5
Yorkshire	1:10,560	1938	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1966 - 1967	10
Ordnance Survey Plan	1:10,000	1974	11
Ordnance Survey Plan	1:10,000	1981 - 1984	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
VectorMap Local	1:10,000	2015	15

Historical Map - Slice A



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