Smelt Road, Coedpoeth

Proposed House

Phase I & II Environmental Report

Mr Peter Longden



GroundSolve Ltd
Consulting Geotechnical, Engineering Geology and Environmental Engineers

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1.0 INTRODUCTION

Mr Peter Longden has purchased a site off Smelt Road in Coedpoeth, near Wrexham, with which to develop with a new three bedroom house.

The proposed development has attracted a planning condition regarding potential contamination, which is due to past lead mining in the area.

This states that, "No part of the development shall commence until a scheme to deal with potential contamination at the site has been submitted to, and approved in writing by the Local Planning Authority. This scheme shall include a phased investigation approach to identify the extent of contamination and any measures required to remediate the site, including post-development monitoring. No part of the development shall be occupied until a verification report, which demonstrates that the remedial works approved as part of condition No 2 have been satisfactorily carried out, has been submitted to and approved in writing by the Local Planning Authority".

Consequently, Mr Longden has appointed GroundSolve Ltd (GSL) to carry out a Phase I and II environmental report at the site. This was discussed with the Local Authority and agreed that for such a small site a phased approach was not required.

This report presents the findings of a desk study and site investigation at the site, it presents conceptual ground models and risk assessments and recommends remedial works for the site.

2.0 THE SITE

2.1 Site Location and Description

The site is located at the junction of High Street (A525) and Smelt Road in the village of Coedpoeth to the west of Wrexham, at National Grid Reference SJ 3280 3516, see Figure 1.

The site is bounded by High Street to the north east, Smelt Road to the south east and housing elsewhere. An electricity sub station is present immediately south of the site, see Figure 2.

The site is some 35m long and 15m wide (525m²) and is flat and currently occupied by a wooden workshop building and a mobile caravan.

Photographs showing the site are presented in Appendix A.

2.2 Geology and Hydrogeology

The geology of the site has been studied on the 1:50,000 scale geology plan, Sheet 121, and the associated geological memoirs, Reference 1. The 1:10,000 scale plan, Sheet SJ 25 SE (solid), has also been studied. In addition, the Wrexham applied geological mapping studied has been researched, Reference 2.

The geology plan shows the site to be underlain by glacial till (clay), with mudstone bedrock outcropping immediately south west of the site. The 1:10,000 plan and Reference 2 shows the site to be in a fault bounded block, with a coal seam outcropping immediately west of the site, which is the Quaker Seam. This seam is recorded as being some 1.75m thick and would almost certainly have been worked. As the seam dips in an easterly direction, it would be anticipated to be at fairly shallow depth beneath the site.

Reference 2 confirms that no recorded shafts are present on the site. It also confirms that all of the lead veins are well to the west of the site.

The site is in an area where the soils are classified as being of high leaching potential, that is, soil information for restored mineral workings and urban areas, which is based on fewer observations than elsewhere. A worst case vulnerability classification is assumed, until proved otherwise.

The aquifer classification is a Secondary Aquifer – A and the superficial deposits are classified as unproductive strata.

Groundwater would be anticipated to be fairly deep beneath the site and any flows would be in a south westerly direction, following the topography to the nearby stream.

2.3 History

The history of the site has been studied on old Ordnance Survey (OS) plans dating from 1872 and historical information obtained from the internet.

The Welsh translation of Coedpoeth is burnt wood and comes from an area which was once covered in Beech and Oak groves being used for the production of charcoal. The charcoal being required for the smelting of lead and firing lime kilns. In 1832 Coedpoeth did not exist, but comprised four small hamlets, The Nant, Adwy'r Clawdd, The Talwrn and the Smelt, which referred to the smelting of lead in this area. The village of Coedpoeth did not come into existence until the1860's.

The 1872 OS plan at a scale of 1:2,500 confirms the site to be in an area known as the Smelt in the village of Coedpoeth. The main road through Coedpoeth defines the north eastern site boundary, with houses and old mine shafts further to the north east. To the north west is housing and a Methodist Chapel, while to the south west the boundary is marked by housing, with open fields to the south east, with the boundary marked by Smelt Road. The site itself is undeveloped, see Figure 3a. Old Coal and Iron shafts are shown within 200m of the site in all directions.

No changes are shown on the site on the 1899 OS plan, although a small structure, too small to be a house, is shown in the north east corner of the site. However, an old lead shaft is shown some 100m west of the site, see Figure 3b. On the 1912 OS plan the small structure is no longer shown, suggesting it was an outbuilding of some kind, see Figure 3c. Some 50m to the east of the site a Smithy is shown on the opposite side of the main road.

The 1938 and 1954 OS plans at scale of 1:10,560 also failed to show any changes on site, although most of the surrounding shafts are no longer shown. They also show Coedpoeth being on a hill, with two streams to the north east and south west of the site flowing in a south easterly direction, (Afon Gwenfro and Pant Tywyll). The Minera lead mines are shown 1km to the west of the site, with New Minera lead mine 600m south of the site.

The 1964 OS plan at a scale of 1:2,500 shows a small dwelling on the front of the site (No 71 High Street) and the sub station had been constructed on the southern corner of the site. Houses had also been constructed to the south east of Smelt Road, along with the garage fronting the High Street, see Figure 3d. The Smithy is no longer shown.

The 1968 OS plan shows the sub station labelled as such with no other changes, see Figure 3e. However, the houses to the south of the site fronting Smelt Road had been demolished. No changes are shown on the 1973, 1977, 1979 and 1984 OS plan; see Figure 3f-3i, although the site to the south had been redeveloped by 1973 with replacement housing.

By the 1993 OS plan it appears that the dwelling had been demolished, although the sub station was still present, see Figure 3j. This is confirmed by the 2006 OS plan, which shows the site free of any structures.

3.0 ENVIRONMENTAL SEARCHES

An envirocheck report has been obtained for the site, the main findings are summarised below and the full report presented in Appendix B.

Agency and Hydrological

- There are no discharge consents within 250m of the site,
- There is an LAPPC some 60m south east of the site, which relates to the Premier Garage,
- The closest water feature is 220m south west of the site,
- There have been no pollution incidents to controlled waters within 250m of the site,
- The closest water abstraction is 976m to the west of the site.

Waste

- There are no historic landfills within 250m of the site,
- There are no Local Authority recorded landfill sites within 250m of the site,
- There are no registered waste treatment or disposal sites within 250m of the site,
- There are no licensed waste management facilities within 250m of the site.

Geological

The BGS have supplied the following estimated soil chemistry for the site.

- Arsenic <15mg/kg,
- Cadmium <1.8mg/kg,
- Chromium 60-90mg/kg,
- Lead 150-300mg/kg,
- Nickel 15-30mg/kg.

In addition, the following geological comments were given,

- The site is in an area which may be affected by coal mining and it was recommended that a Coal Authority report be obtained,
- It was considered highly unlikely to be in a non coal mining area,
- The property is in an intermediate probability radon area as between 1 and 3% of homes are above the action level,
- Consequently, no radon protective measures are necessary in the construction of new dwellings or extensions.

Industrial Land use

- The closest industrial land use is Baldock blinds and curtains some 15m to the west of the site,
- Others include Road haulage services – 97m west of the site,
- Domestic cleaning services – 115m NE of the site,
- Vehicles dealers 214m NW of the site,
- There is a fuel station 60m SE of the site which is the Texaco fuel station.

4.0 PROPOSED DEVELOPMENT

A three bedroom house is proposed at the site and the proposed layout is presented in Figure 4. Garden areas are intended either side of the property.

The recommendations given in this report are based on this layout, should they change the recommendations given in this report should be reviewed and if necessary revised.

5.0 THE INVESTIGATION

The investigation comprised two hand dug trial pits to a maximum depth of 0.60m excavated on the 2nd December 2014. The trial pits were excavated and logged by GSL.

The trial pit logs are presented in Appendix C, with the locations shown on Figure 2.

Samples were taken from the trial pits, from the topsoil and one from the top of the glacial till, placed in the appropriate containers and a cool box and taken immediately to the laboratories of Alcontrol in Chester for the following testing.

CLEA Contaminants – Arsenic (As), Cadmium (Cd), Mercury (Hg), Nickel (Ni), Lead (Pb), Selenium (Se), Phenol, Cresols, Benzene, MTBE, Toluene, Ethylbenzene, m, p-Xylene, o-Xylene.

GAC Contaminants – Boron (B), Copper (Cu), Zinc (Zn), Chromium total (Cr), Chromium (Hexa), Chromium (Triv), PAH (Speciation), TPHCWG.

Other Contaminants
Sulphide, Sulphate (wat sol), Cyanide total, pH, Sulphur elemental, Soil Organic Matter.

In addition, asbestos screening was carried out on all samples, none being encountered.

The results are summarised in Section 7.0 and the results presented in full in Appendix D.

6.0 GROUND CONDITIONS

The trial pits confirmed the presence of 300 -500mm of topsoil described as brown, slightly clayey, gravelly silt.

In TP 2 beneath the topsoil 250mm of brown, slightly silty, sandy, fine to coarse gravel with a trace of lime was encountered.

The underlying glacial till was only proved to depths of 600mm and was described as yellow brown mottled brown, clayey silt, with a little gravel.

7.0 RESULTS OF CHEMICAL TESTING

The soil samples were taken from the topsoil and the top of the glacial till. The sample depths are presented in the table below.

TP No	Depth (m)	Material
TP 1	0.0-0.50	Topsoil
TP 1	0.50	Glacial Till
TP 2	0.0-0.30	Topsoil

The results of the soil analyses are presented below where they compared to human health critical values (CVs) for initial screening purposes. The CVs adopted are for residential land use. They are taken primarily from CLEA Soil Guideline Values (SGVs) published by the Environment Agency (2009), and LQM/CIEH Generic Assessment Criteria (GACs-2nd edition 2009). These criteria are derived using the CLEA model under a standard default residential land use scenario, assuming that the potentially contaminated soil is present in gardens and beneath houses, and assuming worst case soil organic matter levels where these affect the critical value.

The lead values were withdrawn in 2009 and have recently been replaced by new C4SL values, which are presented in the table below. Where published human health critical values are unavailable or inappropriate, then other widely-used screening values are used, as noted below.

CLEA SGV Contaminants

Determinant	No of Tests	Range (mg/kg) (Mean)	CLEA SGV Guidelines A*		% exceeding CLEA SGV
Arsenic	3	12.2 – 19.3(16.6)	1	32	0
Cadmium	3	1.92-7.85(5)	1	10	0
Lead	3	446 – 1260 (952)	1	200	100
Mercury	3	<0.14-0.52 (0.38)	1	1	0
Nickel	3	19.5 – 24.7 (22.6)	1	130	0
Selenium	3	<1-1.33 (1.11)	1	350	0
Phenol	3	<0.01*	1	420	0
Cresols	3	<0.01*		NA	
MTBE	3	<0.005*		NA	
Benzene	3	<0.01*	1	0.33	0
Toluene	3	<0.002*	1	610	0
Ethylbenzene	3	<0.003*	1	350	0
M, p-Xylene	3	<0.006*	1	230-240	0
o-xylene	3	<0.003*	1	250	0

Notes
A* 1 SGV for residential use.
* - mean value not applicable since all or most values below laboratory detection levels

The only exceedances of the values for residential land use were for lead in all samples.

GAC Contaminants

Determinant (GAC Metals)	No of Tests	Range (Mean) (mg/kg)	GAC Value (mg/kg)	% exceeding GAC
Zinc	3	343 –1650(1098)	3750	0
Boron	3	2.91 – 6.36 (4.53)	291	0
Chromium	3	16.1 – 17.2 (16.8)	NA	
Chromium (Hex)	3	<0.60-1.32 (0.84)	4.3	0
Chromium (Triv)	3	14.8 -17.2 (16.4)	3000	0
Copper	3	21.3 – 73.6 (51)	2330	0

None of the above values exceed the relevant guidelines.

PAH Speciation

Determinant (GAC Speciated PAH)	No of Tests	Range (mg/kg)	GAC Value (mg/kg)	% exceeding GAC
Anthracene	3	0.050 -2.83	4900	0
Acenaphthylene	3	0.04-1.69	400	0
Acenaphthene	3	<0.008 – 0.161	480	0
Benz(a)anthracene	3	0.266-12.5	4.7	66
Benzo(a)pyrene	3	0.227-13.2	0.94	66
Benzo(b)fluoranthene	3	0.261-13.5	6.5	66
Benzo(ghi)perylene	3	0.2-8.09	46	0
Benzo(k)fluoranthene	3	0.105-5.79	9.6	0
Chrysene	3	0.224-11.6	8.0	33
Dibenzo(ah)anthracene	3	0.035-1.77	0.86	66
Fluoranthene	3	0.407 – 24.7	460	0
Fluorene	3	<0.01 – 0.336	380	0
Indeno(123cd)pyrene	3	0.132-7.13	3.9	66
Naphthalene	3	0.033– 0.323	3.7	0
Phenanthrene	3	0.237 – 8.86	200	0
Pyrene	3	0.361 – 20.6	1000	0

The above guidance values are based on a SOM of 2.5%, which is the lower bound, as determined by testing.

Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Dibenzo(ah)anthracene and Indeno(123cd)pyrene all exceeded the GAC values for residential land use in the topsoil only.

Other Contaminants

Determinant	No of Tests	Range (Mean) (mg/kg unless otherwise stated)	Published Guidelines
Sulphide	3	<15	1000 (ICRCL)
Sulphur	3	<10-188 (81)	0.5% (UU)
Sulphate (wat sol)	3	0.004-0.022 g/l (0.01)	N/A
Total Cyanide	3	<1-1.14 (1.05)	NA
pH	3	7.6 – 8.45(8)	<5 (UU)
Soil Organic Matter	3	2.07-12.7 (7.86)	6% (EA)
Notes. UU United Utilities EA Environment Agency			

The test results have not revealed any concentrations above the indicated guidance levels for residential land use.

Hydrocarbons

LQM 1% Organic Content	No of Tests	Range (mg/kg)	Published Guidelines (mg/kg)
Aliphatic EC 5-6	3	<0.01	55
Aliphatic EC >6-8	3	<0.01	160
Aliphatic EC >8-10	3	<0.01	46
Aliphatic EC >10-12	3	<0.01	230
Aliphatic EC >12-16	3	1.82-5.51	1700
Aliphatic EC >16-35	3	2.56-17.44	64000
Aliphatic EC >35-44	3	<0.01-5.25	64000
Aromatic EC 5-7(benzene)	3	<0.01	130
Aromatic EC >7-8(toluene)	3	<0.01	270
Aromatic EC >8-10	3	<0.01	65
Aromatic EC >10-12	3	<0.01	160
Aromatic EC >12-16	3	3.35-8.78	310
Aromatic EC >16-21	3	8.16-66.6	480
Aromatic EC >21-35	3	18.6-265	1100
Aromatic EC >35-44	3	1.83-53.2	1100

Based on 2.5% SOM, none of the above values exceeded the relevant guidance.

The asbestos screening failed to reveal the presence of any asbestos.

8.0 CONCEPTUAL GROUND MODEL AND RISK ASSESSMENTS

8.1 General

According to the Contaminated Land Regulations, to determine whether there is a significant possibility of significant harm, the following should be taken into account:

"The nature and degree of harm, the susceptibility of the receptors and the timescale within which the harm might occur".

Current good practice therefore requires that the findings from the desk study or site investigation be evaluated for contamination on a site-specific basis using a risk based approach. Risk assessment involves identification of the hazards and evaluation of the risks associated with these hazards. Risk assessment requires an evaluation of a conceptual "source – pathway – receptor" linkage model and can be qualitative or quantitative.

The basis of an environmental risk assessment involves identifying a 'source' of contamination, a 'pathway' along which the contamination may migrate and a 'receptor' at risk from the contamination.

Current legislation defines the various elements of the pollution linkage as:

- A contaminant 'source' is a substance, which is in or under the ground and which has the potential to cause harm or to cause pollution of controlled waters.
- A 'pathway' is one or more routes through which a receptor is being exposed to, or affected by, a contaminant, or could be so affected.
- A 'receptor' is either a living organism, an ecological system, a piece of land or property, or controlled water.

A pollutant linkage indicates that all three elements have been identified. The site can only be defined as 'Contaminated Land' if a pollutant linkage exists and the contamination meets the criteria above.

8.2 Hazard Identification

On Site

The desk study has failed to reveal any past uses of the site with the exception of open farmland and housing.

While no visual or olfactory evidence of contamination was encountered in any of the trial pits, the results of the chemical testing has indicated elevated lead and PAH values. The elevated PAH values were confined to the topsoil, while the top of the glacial till also

contained slightly elevated lead values. A source analysis of the PAH revealed it to be from a coal source.

The source of contamination on the site is therefore considered to be wind blown from the extensive smelting activities nearby in the past. The fact that the top of the glacial till also had an elevated lead value could be due to two factors, either mixing in during past cultivation/rotavating or the clay has been contaminated by lead eroded from glaciers during the last ice age.

Off Site

The only nearby off site source of contamination that could migrate onto site was from the nearby electricity sub station. However, the fact that there is a gap between the two sites and any potential PCB's from transformers would have to have been removed from the front of the sub station means that this likelihood is considered to be negligible.

8.3 Summary of Conceptual Ground Model

Potential Contamination Sources	Potential Contaminants of Concern	Potential Pathways	Receptor Group
Air borne contamination from past smelting activities	PAH, Heavy metals.	Dermal contact Ingestion of contaminated soils and home grown vegetables Inhalation of contaminated dust	Construction Workers End users (home owners)
		Lateral Migration and Infiltration	Groundwater

8.4 Pathways

In relation to any on site contamination reaching potential site users, the following pathways are generally considered:

- Ingestion and skin contact with soils on site,
- Inhalation from wind blown dust,
- Leaching of contaminated materials that may affect controlled waters,
- Direct contact with contaminated material during construction,
- Infiltration and accumulation of ground gas.

However, based on the conceptual ground model, the most important pathways are considered to be protection of end users from ingestion of soil and home grown vegetables and inhalation of contaminated dust.

8.5 Receptors

The potential impact of the identified hazards is therefore assessed with regard to future site users and water resources. There being a clear contaminant source – pathway –source identified for future site users because of the presence of elevated lead and PAH values in the existing topsoil on site.

8.6 Controlled Waters

There are no streams close to the site, which could be affected. In addition, the aquifer below the site is not potable, the bedrock being classified as a Secondary Aquifer, while the superficial deposits are classified as unproductive strata.

The fact that the site has been undermined, already means that any potential aquifer is already highly contaminated.

Finally all water falling on the site at present is percolating into the ground. As it is proposed to cover the site partly with building and hardstandings this will remove the potential for material to leach from beneath the site as discussed in Section 8.10. The development of the site will therefore considerably reduce any residual risk to controlled water and the remaining risk is considered to be negligible.

8.7 Construction Workers

The risks to construction workers is considered to be low and can be catered for by appropriate PPE and washing facilities in accordance with current good practice.

8.8 Ground Gases

The desk study failed to reveal any nearby landfills and the risk from radon gas was such that no gas remedial measures are deemed necessary. In addition, the client has requested a radon report, which is presented in Appendix E. This confirmed the findings above.

The risk to the end users from ground gases is therefore considered to be negligible.

8.9 Building Materials

The test results have revealed that there is no risk to water pipes from phenol or hydrocarbon migration through pipelines.

The water soluble sulphate results show that chemical attack of buried concrete is not an issue.

8.10 Conclusion and Remediation Strategy

The existing topsoil on site has been proven to be contaminated with high lead values and also PAH, both of which are considered to be derived from air borne sources.

It will therefore be necessary to remove all of the soil beneath the front and back gardens and replace with suitable imported materials. The imported material should firstly be checked to ensure it is suitable for inclusion in the works and should be submitted to the Local Authority for approval before bringing to site. The testing regime for the imported soil shall be as used in this report, which satisfies the Local Authority requirements. The delivery dockets for any imported material will also need to be provided to the Local Authority as part of the Verification exercise.

The thickness of the required cover depends on two issues, which will need to be investigated further. At present the obvious answer is to take the topsoil off site to a suitably licensed landfill facility. To achieve this it will firstly be necessary to take samples of the topsoil and subject them to WAC analysis. It will be necessary as part of the verification exercise to provide the delivery dockets to the landfill to confirm the material has been taken off site to a suitably licensed landfill.

The current levels would suggest that a direct replacement of the 500mm of topsoil will be required. This would have to be validated by hand dug trial pits excavated in the placed material.

However, this option will be expensive and unsustainable. It is the author's experience that the underlying clay is uncontaminated and it considered worth excavating machine dug trial pits to take samples of the underlying clay for lead testing only. Should it prove to be uncontaminated this will reduce the amount of imported material required and will also mean that it becomes possible to use the spoil from foundation excavations in the garden areas, which will then require topping with 200mm of imported topsoil.

In line with current good practice a watching brief should be kept on all excavations. Should any contamination be encountered it should be excavated, stored safely on site, tested and disposed of at a suitable licensed landfill facility.

REFERENCES

1. Geology of the Country around Wrexham, Memoirs of the Geological Society, 1928,
2. Applied Geological Mapping in the Wrexham Area: Geology and Land use Planning: Technical Report WA/91/4

FIGURES



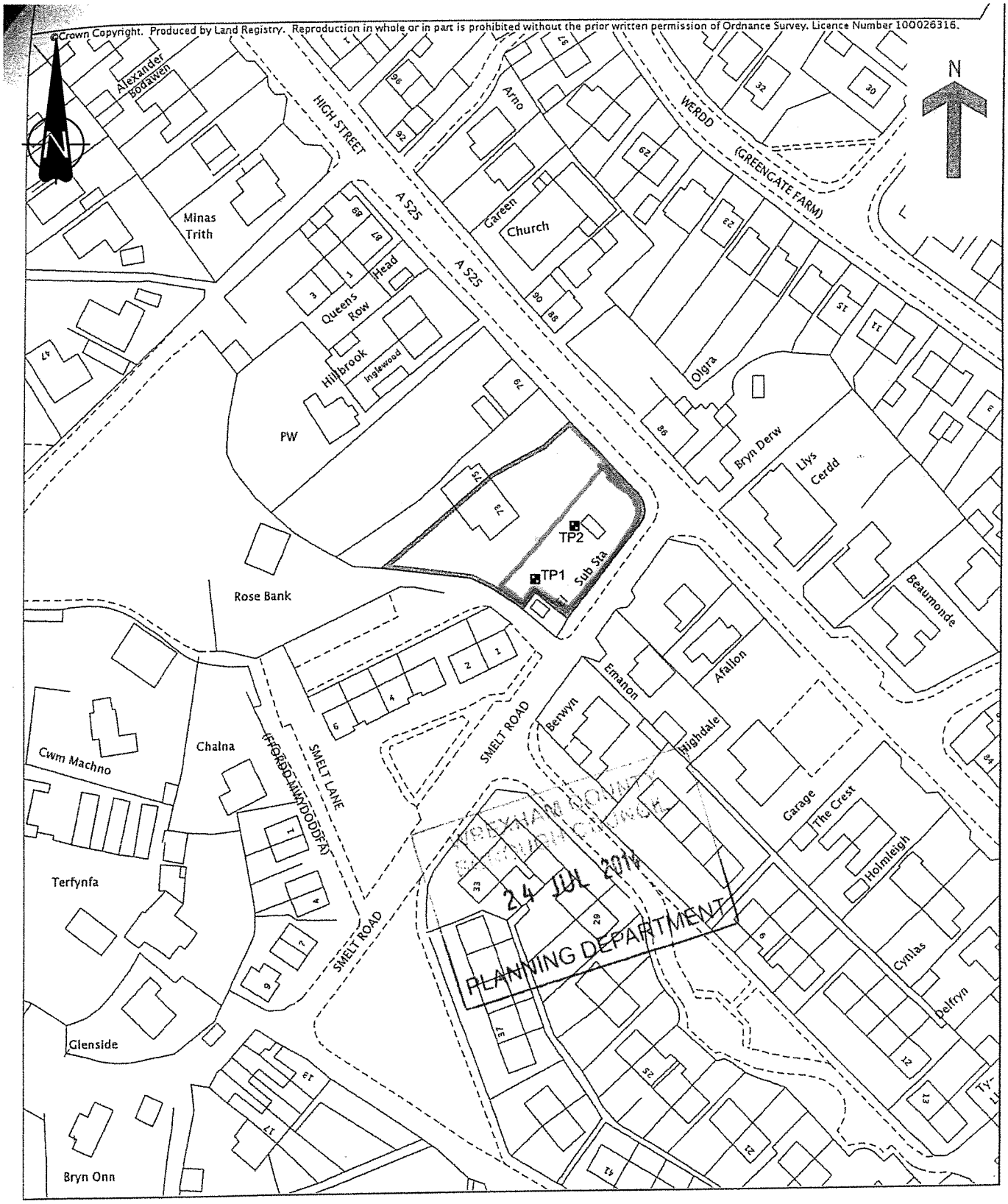
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Figure Title

LOCATION PLAN

FIGURE 1



LEGEND

Trial Pit Locations

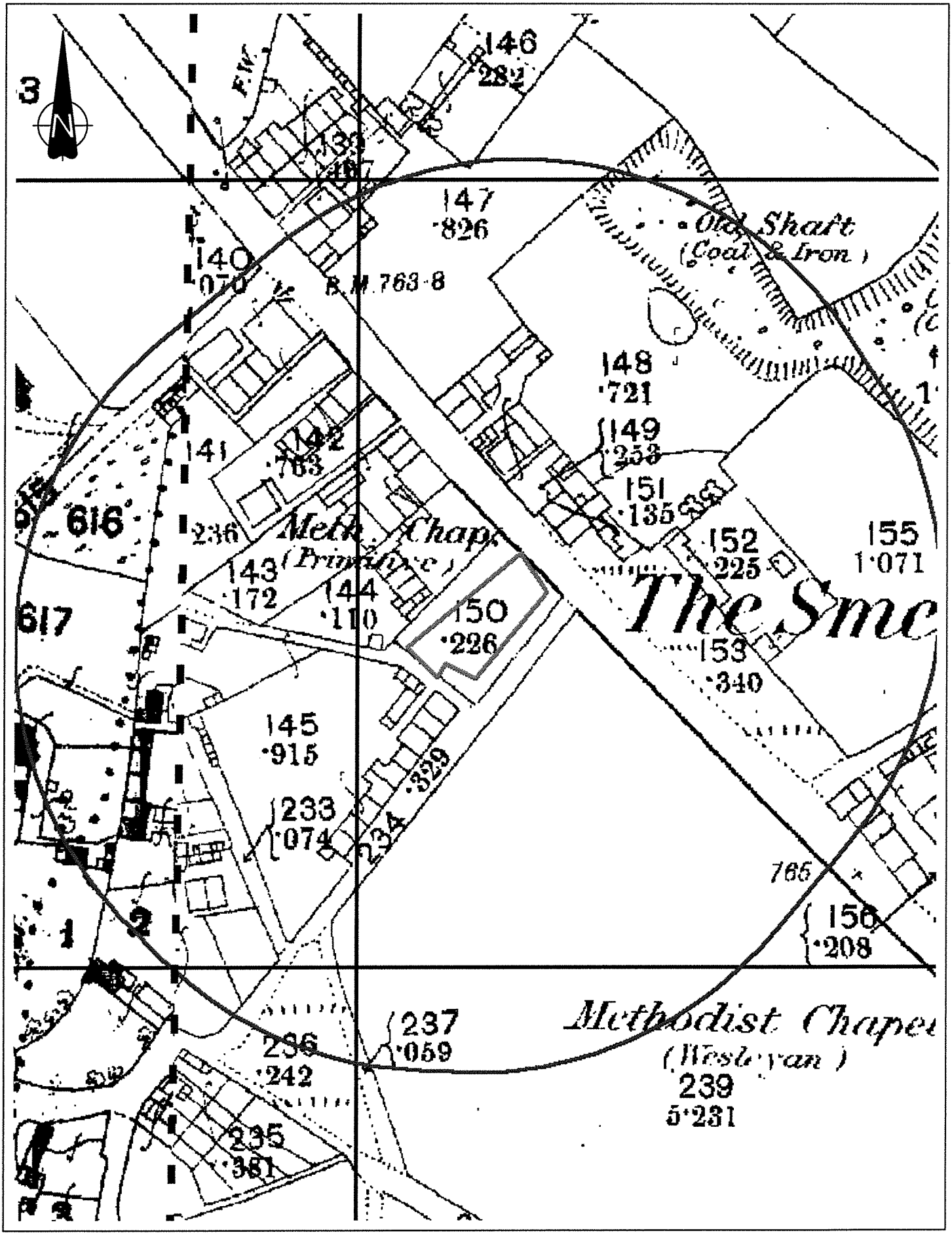
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Figure Title

SITE LAYOUT AND LOCATIONS OF TRIAL PITS

FIGURE 2

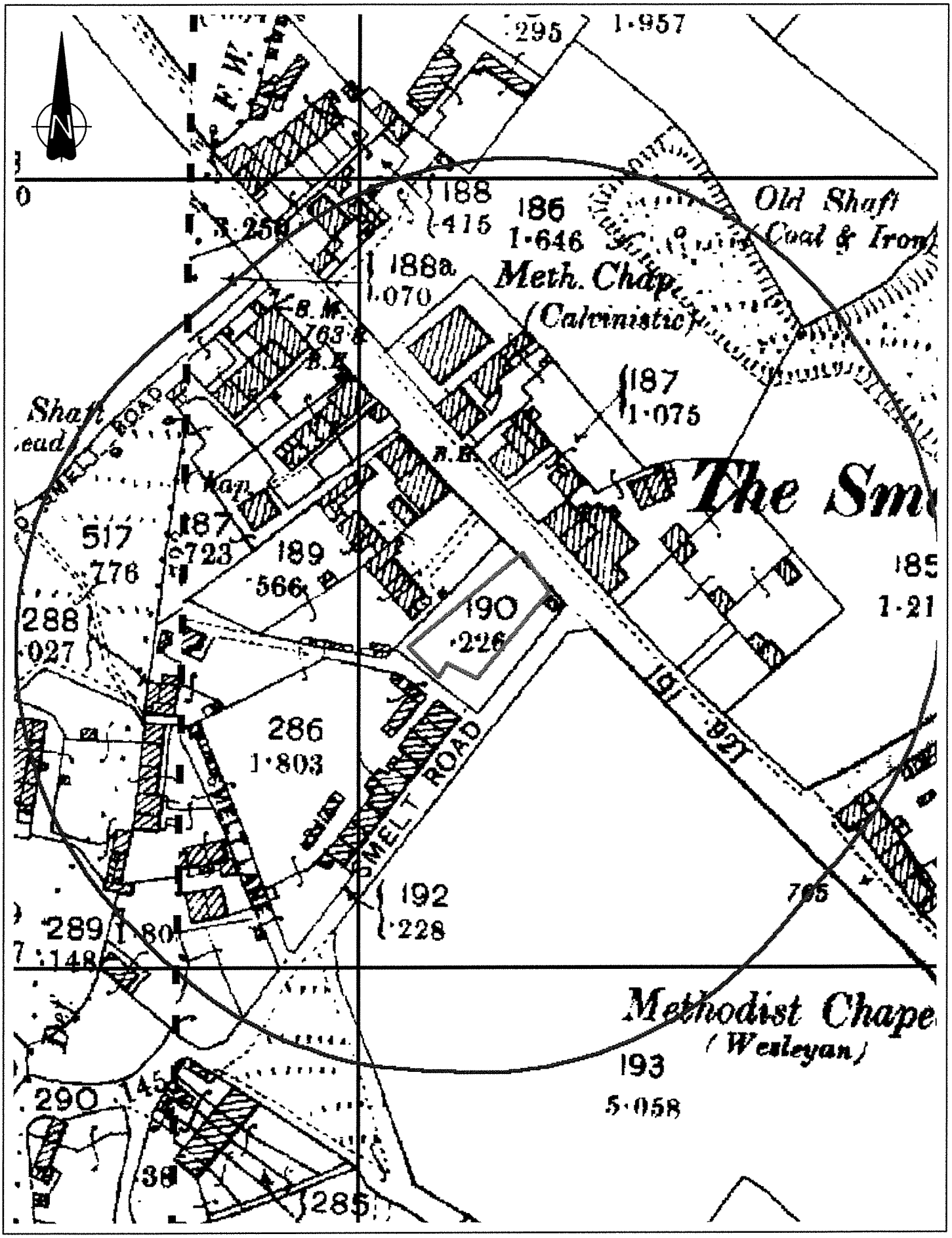


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Figure Title

SITE HISTORY
1872 OS PLAN

FIGURE 3a

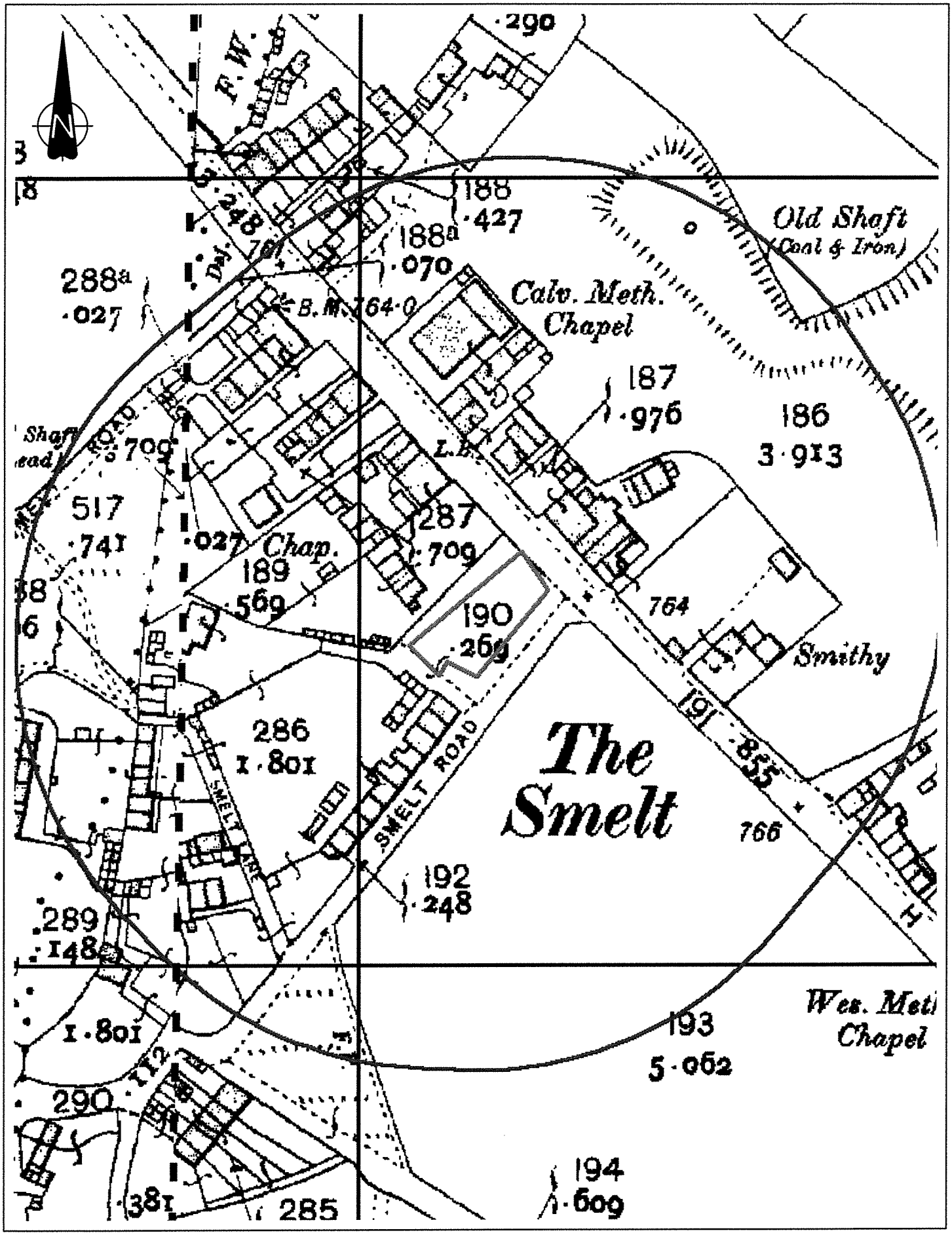


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Figure Title

SITE HISTORY
1899 OS PLAN

FIGURE 3b

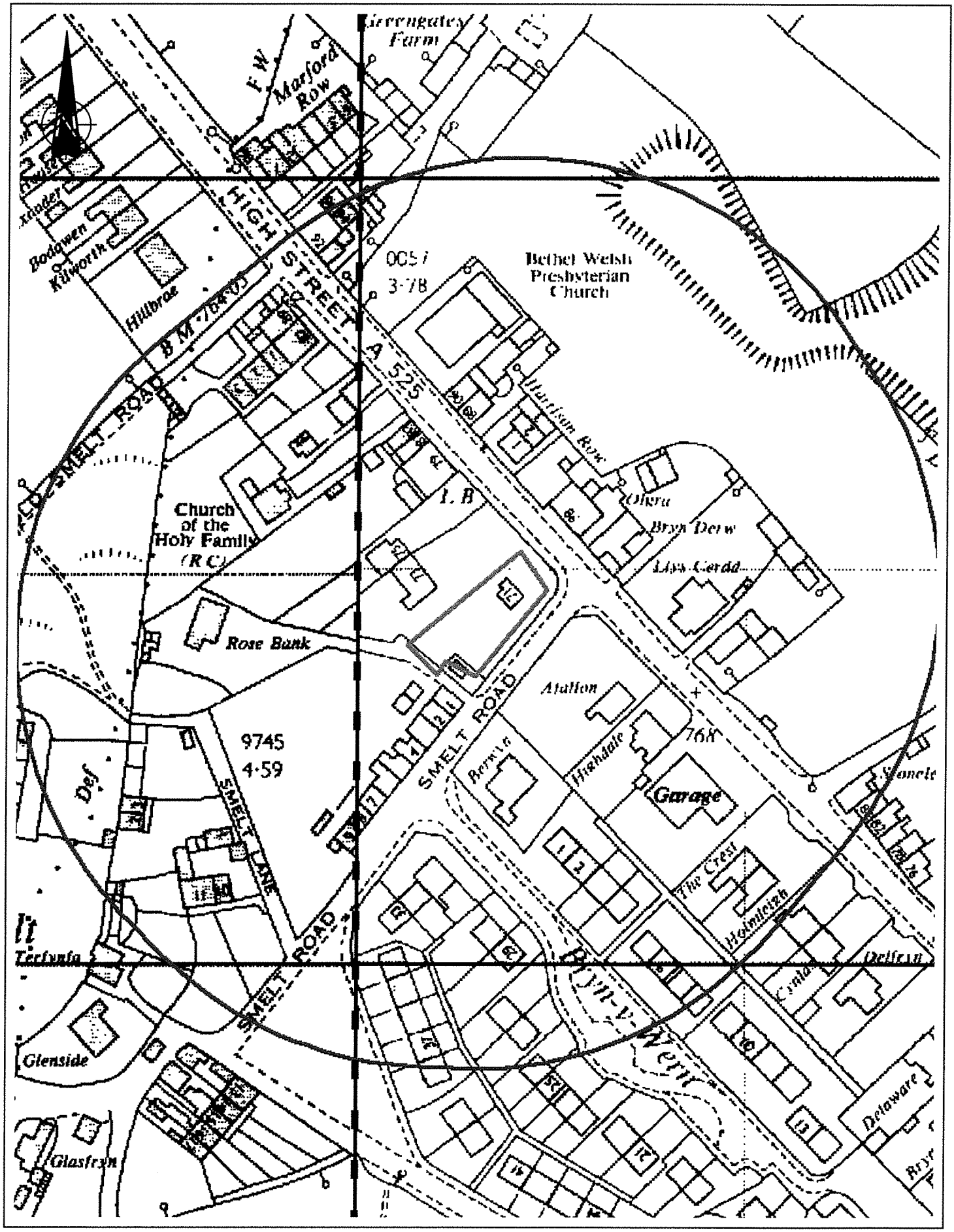


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Figure Title

SITE HISTORY
1912 OS PLAN

FIGURE 3c

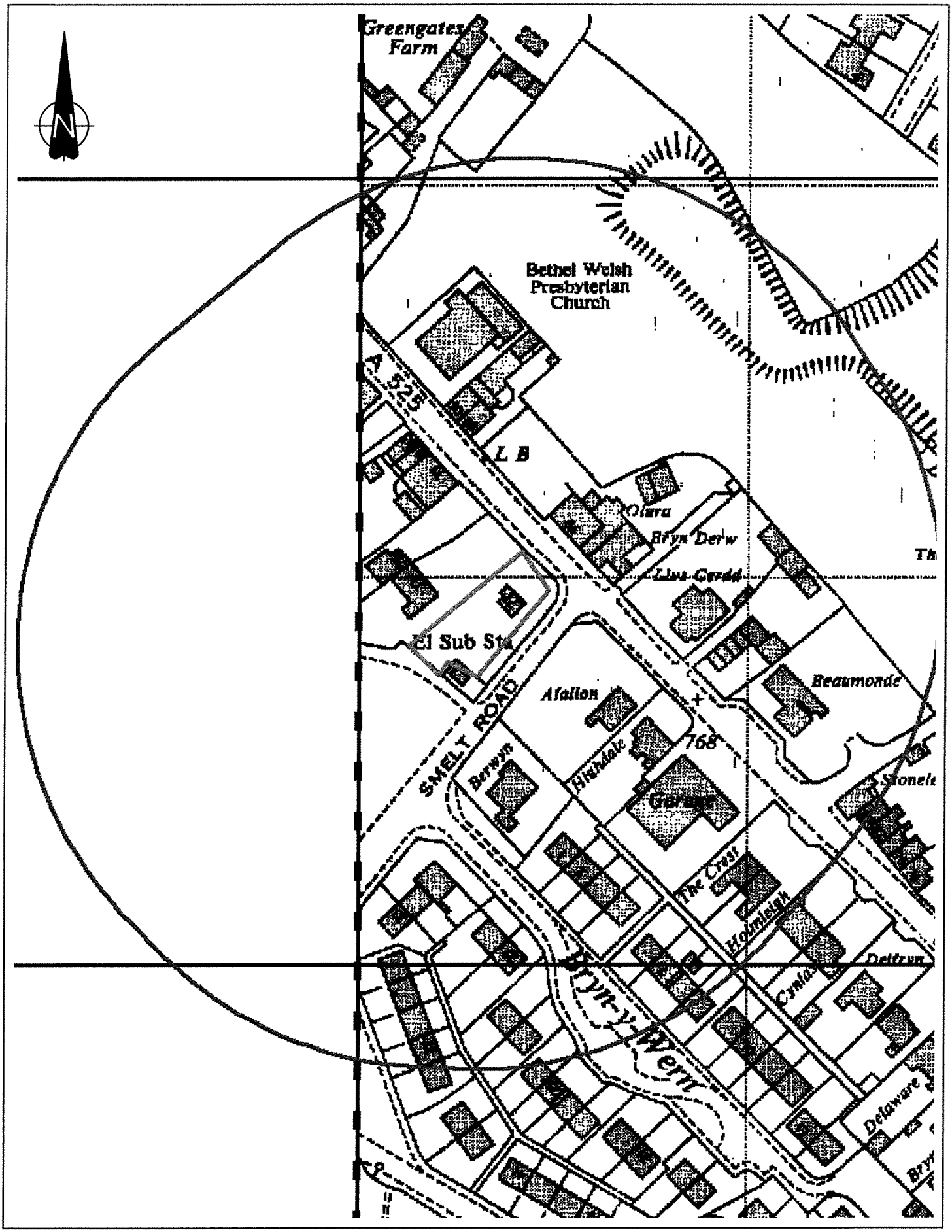


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Figure Title

SITE HISTORY
1964 OS PLAN

FIGURE 3d

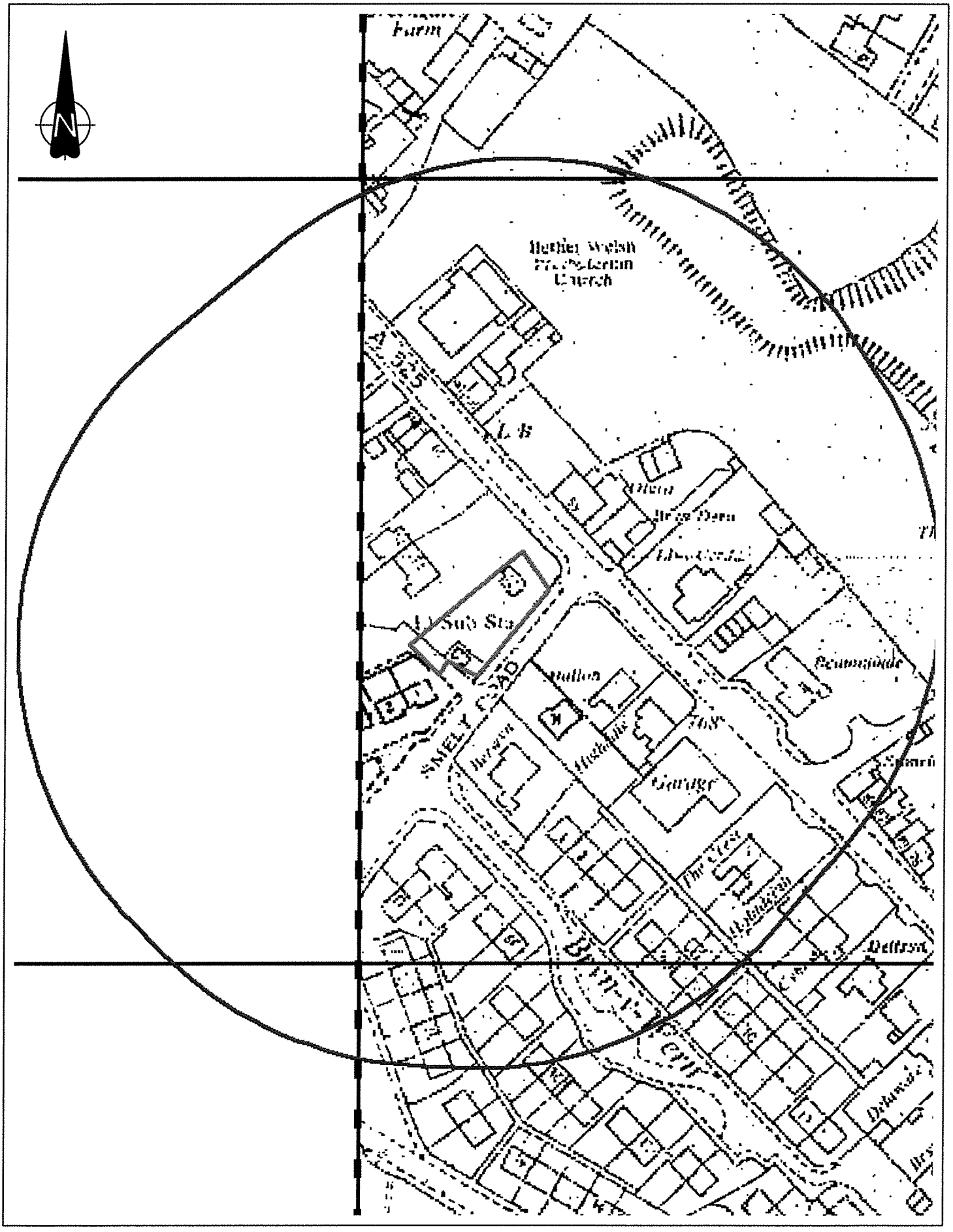


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Figure Title

SITE HISTORY
1968 OS PLAN

FIGURE 3e

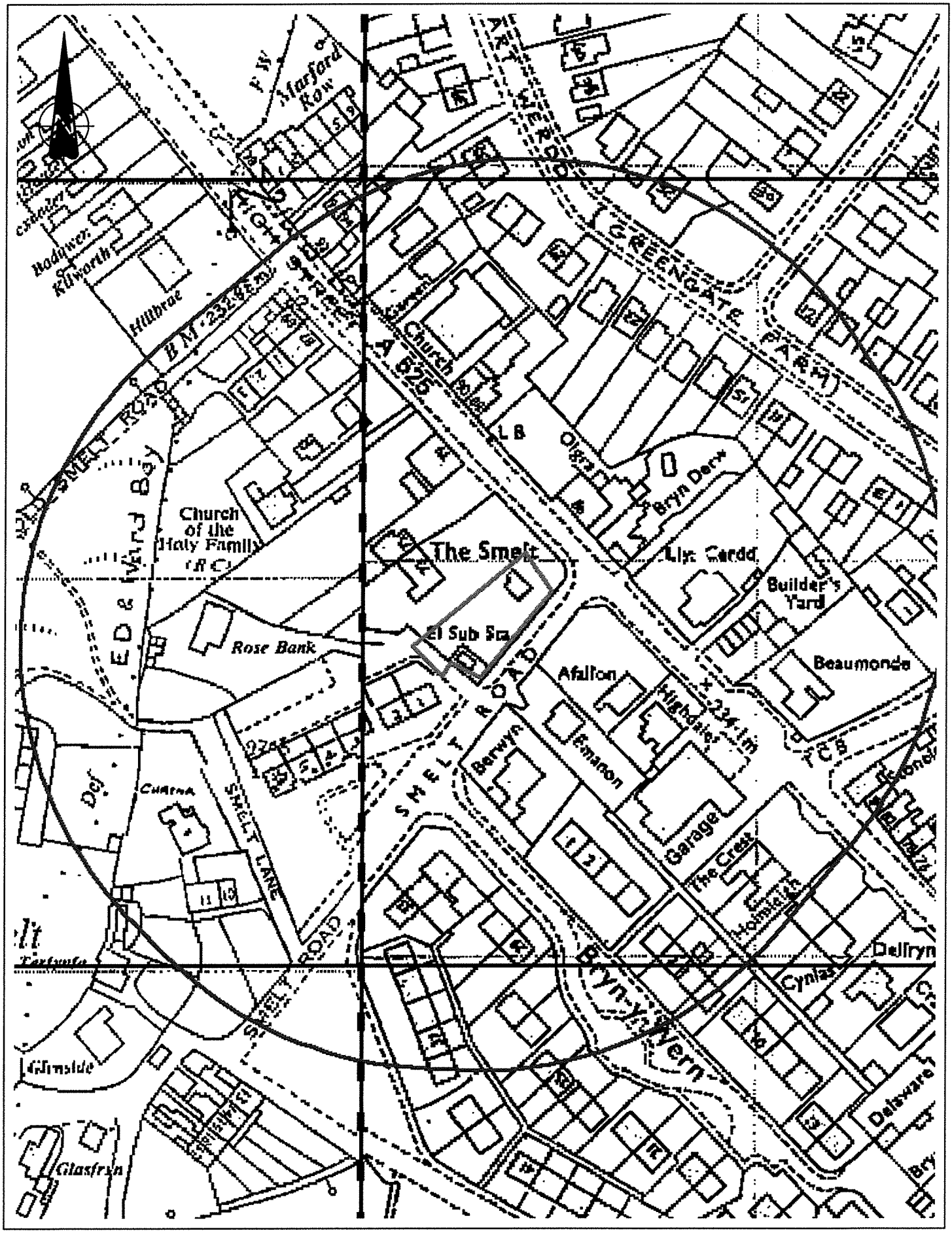


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Figure Title

SITE HISTORY
1973 OS PLAN

FIGURE 3f

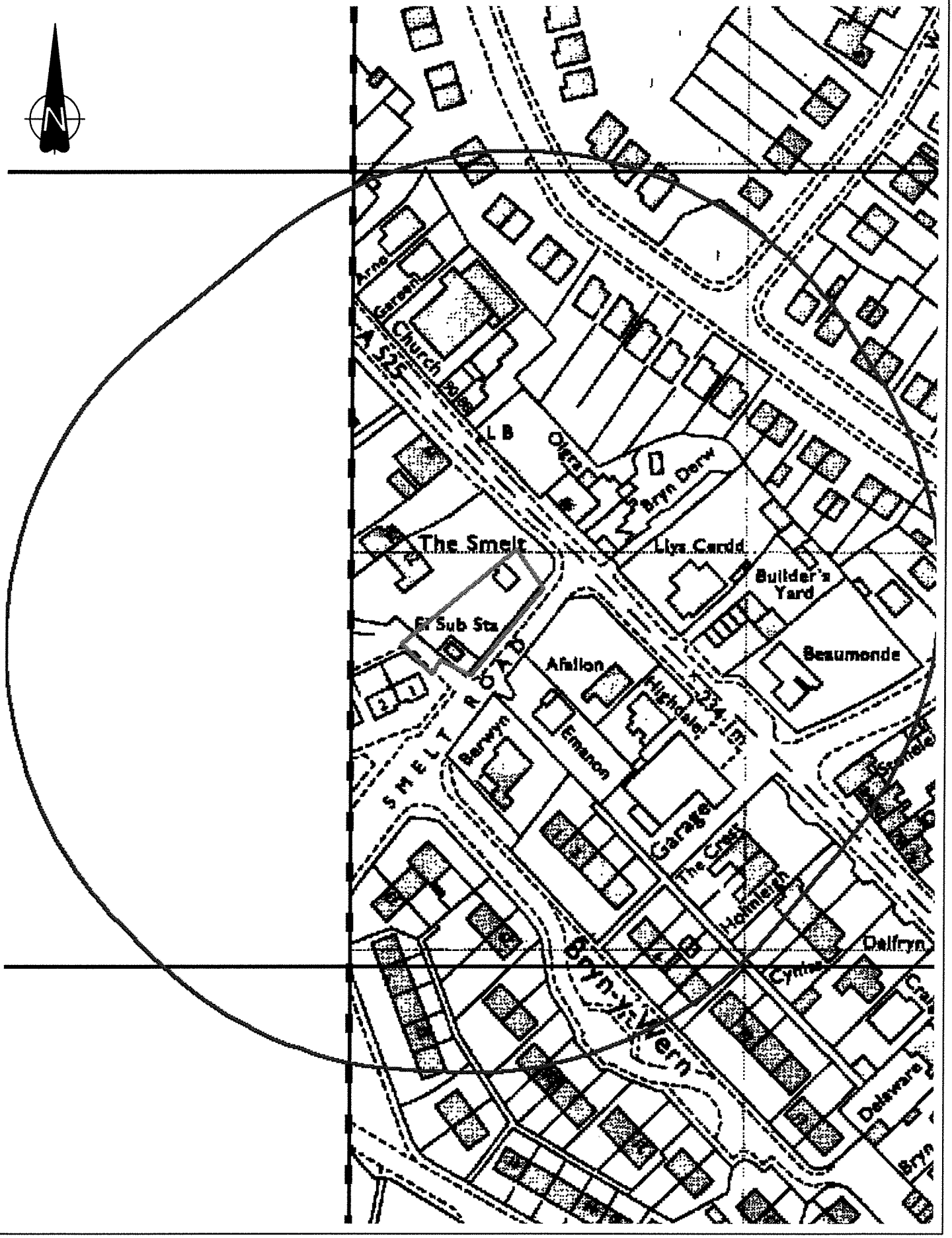


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Figure Title

SITE HISTORY
1977 OS PLAN

FIGURE 3g

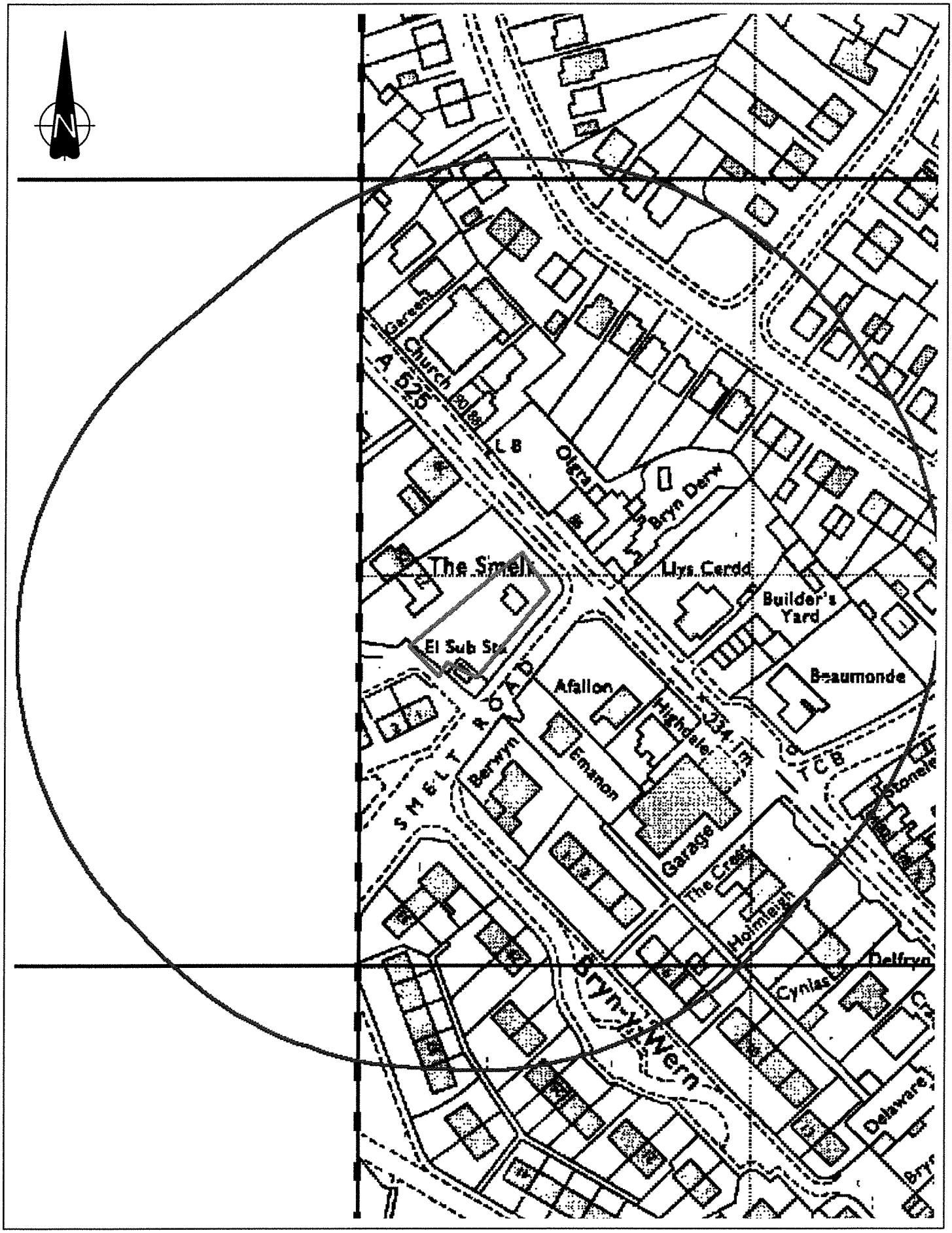


SCALE 1:2,500 @ A4

Figure Title

SITE HISTORY
1979 OS PLAN

FIGURE 3h

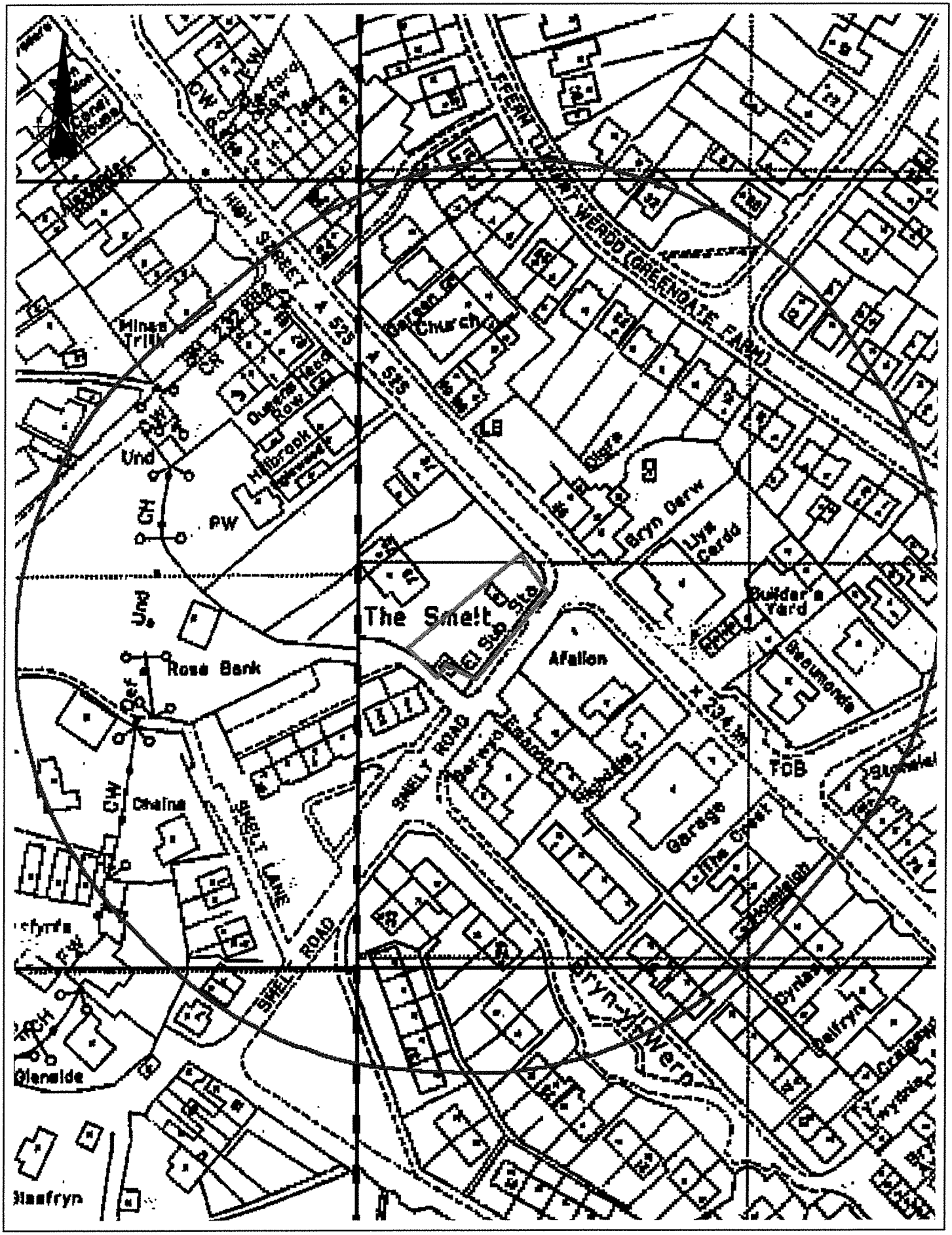


SCALE 1:2,500 @ A4

Figure Title

SITE HISTORY
1984 OS PLAN

FIGURE 3i

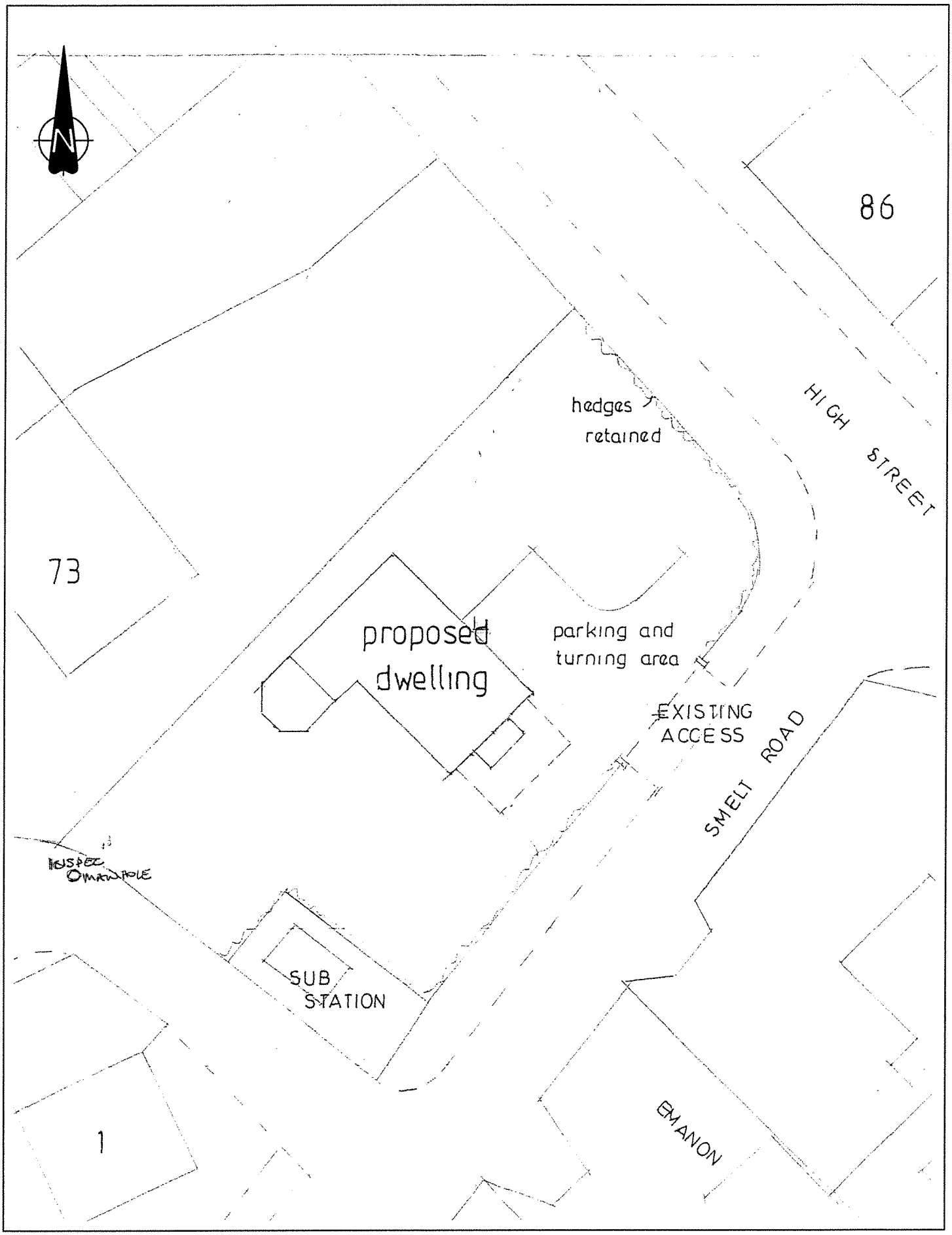


SCALE 1:2,500 @ A4

Figure Title

SITE HISTORY
1993 OS PLAN

FIGURE 3j



SCALE 1:250 @ A4

Figure Title
PROPOSED SITE LAYOUT

FIGURE 4

APPENDIX A

Site Photographs



Photograph 1 Looking towards High street



Photograph 2 Looking towards north west



Photograph 3 looking towards Smelt Road



Photograph 4 Southern section of the site



Photograph 5 Looking along Smelt Road to High street



Photograph 6 looking down Smelt Road

APPENDIX B

Envirocheck Report

Envirocheck®

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
62380767_1_1

Customer Reference:
1649/mjs/001

National Grid Reference:
328030, 351490

Slice:
A

Site Area (Ha):
0.06

Search Buffer (m):
1000

Site Details:

Site at 328000, 351600

Client Details:

Mr M Scott
GroundSolve Ltd
Unit 7
Well House Barns
Chester Road
Bretton
Flintshire
CH4 0DH

Envirocheck®

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	11
Hazardous Substances	-
Geological	13
Industrial Land Use	42
Sensitive Land Use	46
Data Currency	47
Data Suppliers	52
Useful Contacts	53

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v49.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	6
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2		1	3	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3			3	17
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 7				1 (*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 8		Yes	Yes	n/a
Detailed River Network Offline Drainage					n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 11				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 11				2
Local Authority Recorded Landfill Sites	pg 11				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 12				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 13	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 13	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 35		3	5	19
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 40	Yes	n/a	n/a	n/a
Mining Instability	pg 40	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 40				3
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 41	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 41	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 41	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 42		6	14	22
Fuel Station Entries	pg 45		1		
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty	pg 46				1
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Coedpoeth Talwrn Road No 2 - S Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0175501 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 28th March 2002 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Stream **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	324	2	328300 351700
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Talwrn Road No 2 Cso, Coedpoeth, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0175501 Permit Version: 2 Effective Date: 29th March 2002 Issued Date: 28th March 2002 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Afon Gwenfro **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	554	2	328490 351830
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Coedpoeth Talwrn Road No1 Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0175401 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 28th March 2002 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Stream **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	752	2	328800 351500
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Talwrn Road No 1 Cso, Talwrn, Coed Poeth Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0175401 Permit Version: 2 Effective Date: 29th March 2002 Issued Date: 28th March 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Afon Gwenfro **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	842	2	328890 351500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Dwr Cymru Welsh Water Property Type: Sewerage Network - Sewers - Water Company Location: Heol Y Fro Combined Sewer Overflow, Heol Y Fro Cso, Coedpoeth, Wrexham, North Wales, LI11 3la Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprqp3629gf Permit Version: 1 Effective Date: 12th March 2012 Issued Date: 12th March 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Gwenfro **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	846	2	328894 351502
5	**Discharge Consents** Operator: Clay Colliery Co Ltd Property Type: Coal Extraction, Surface Location: Opencast Workings The Fron Tan Y F, Tan Y Fron Coadpath Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cg0324001 Permit Version: 2 Effective Date: 10th February 1993 Issued Date: 10th February 1993 Revocation Date: 11th October 1993 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Afon Gwenfro **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	989	2	328950 351900
5	**Discharge Consents** Operator: Clay Colliery Co Ltd Property Type: Coal Extraction, Surface Location: Opencast Workings The Fron Tan Y F, Tan Y Fron Coadpath Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cg0324001 Permit Version: 1 Effective Date: 22nd January 1992 Issued Date: 22nd January 1992 Revocation Date: 9th February 1993 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Afon Gwenfro **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	989	2	328950 351900
6	**Local Authority Pollution Prevention and Controls** Name: Premier Garage Location: High Street, Coedpoeth, WREXHAM, Clwyd, LL11 3UF Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/14(1)V2 Dated: 23rd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	60	3	328077 351436
7	**Local Authority Pollution Prevention and Controls** Name: Jones Automotive ServicesMinera Garage Location: Unit 30, Five Crosses Industrial Estate, Minera, Wrexham, LI11 3rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/JAS Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	464	3	327875 351937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Local Authority Pollution Prevention and Controls** Name: D C Autos Location: Unit 23, Five Crosses Industrial Estate, Minera, Wrexham, LI11 3rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/DC Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	470	3	327884 351947
7	**Local Authority Pollution Prevention and Controls** Name: Minera Garage Location: Unit 30, Five Crosses Industrial Estate, Mineraawrexham, LI11 3rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/MG Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	507	3	327858 351977
8	**Local Authority Pollution Prevention and Controls** Name: Minera Tyres And Exhausts Ltd Location: Unit 36, Five Crosses Industrial Estate, Minera, Wrexham, LI11 3rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/MTE Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SW (NW)	481	3	327808 351925
9	**Local Authority Pollution Prevention and Controls** Name: Prospects For Young People Location: Unit K & L Five Crosses Industrial Estate, Minera, Wrexham, LI11 3rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG1-1-1-PYP Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	638	3	327685 352034
9	**Local Authority Pollution Prevention and Controls** Name: Minera Building Supplies Ltd Location: Five Crosses Industrial Estate, Ruthin Road, Minera, WREXHAM, Clwyd, LL11 3RD Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG3/1(6)V2 Dated: 20th December 2002 Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	674	3	327682 352074
	Nearest Surface Water Feature	A13SW (SW)	220	-	327837 351349
10	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Talwen Road Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Blocked Sewer Incident Date: 10th October 1994 Incident Reference: 21368 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	321	4	328300 351695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Old Farm, TANYFRON Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 8th August 1991 Incident Reference: 2027 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	452	4	328500 351500
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Coepoeth Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Afon Clywedog Incident Date: 30th September 1997 Incident Reference: 33738 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	475	4	328000 351000
13	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Up Stream Of Pentre Fron Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 17th April 1991 Incident Reference: 2611 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	534	4	328400 351900
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Coed Poeth , WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Accident; Afon Clywedog Incident Date: 20th June 1998 Incident Reference: 36106 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	540	4	328500 351200
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Junction Of Middle Road & Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Accident; Afon Clywedog Incident Date: 15th June 1998 Incident Reference: 36105 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	543	4	328500 351795
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: End Of Heol Penyfelin Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Accident; Afon Clywedog Incident Date: 15th June 1998 Incident Reference: 36105 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	545	4	328500 351800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: 5 Crosses, Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Emergency Overflow Incident Date: 16th April 1995 Incident Reference: 23424 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	575	4	327750 352000
17	**Pollution Incidents to Controlled Waters** Property Type: Cattle Beef Farming: Yards Location: Greenacres Farm, Pentrafron Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Accidental Spillage/Leakage Incident Date: 22nd July 1995 Incident Reference: 25243 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	597	4	327800 352050
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Pentre Fron Road, COEDPOETH Authority: Environment Agency, Welsh Region Pollutant: Oils - Fats And Grease Note: Not Supplied Incident Date: 25th October 1995 Incident Reference: 26443 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	611	4	328400 352000
19	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Other Location: Wern Cottage, Sewage Treatment Works Authority: Environment Agency, Welsh Region Pollutant: Sewage Sludge Note: Poor Operational Practise Incident Date: 9th August 1994 Incident Reference: 21475 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	709	4	327800 350800
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Road Adjacent To H K Motors Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Poor Management Control Incident Date: 19th December 1996 Incident Reference: 30792 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	764	4	327250 351450
21	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Electric Sub-Station Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Emergency Overflow Incident Date: 15th September 1994 Incident Reference: 21051 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	778	4	328800 351695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Stream, TANYFRON Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 8th September 1994 Incident Reference: 21103 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	780	4	328800 351700
21	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 29th June 1995 Incident Reference: 24676 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	783	4	328805 351695
22	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Other Location: Heol, Pen-Y-Felin, Coed Poeth Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 25th May 1991 Incident Reference: 2773 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	819	4	328300 350700
23	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near Pen Y Palmant Farm Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Afon Clywedog; Run-Off Incident Date: 20th January 1998 Incident Reference: 34613 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	825	4	327200 351620
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Tanyfron, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Gwenfro; Overflow Incident Date: 18th September 1997 Incident Reference: 33606 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	832	4	328880 351510
25	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lay-By, Coed Y Graig, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Accidental Spillage/Leakage Incident Date: 7th July 1996 Incident Reference: 29137 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	900	4	328800 351000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Pollution Incidents to Controlled Waters** Property Type: Cattle (Dairy) Farming: Slurry Store/Waste Tank Location: Pant Tywyll Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Inadequate Design/Capacity Incident Date: 9th March 1995 Incident Reference: 22776 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	958	4	327380 352200
27	**Water Abstractions** Operator: Dee Valley Water Plc Licence Number: 24/67/7/0035 Permit Version: 100 Location: Park Day Level Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Speedwell Shaft Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	976	4	327050 351641
	Water Abstractions Operator: Dee Valley Water Plc Licence Number: 24/67/7/0035 Permit Version: 100 Location: Speedwell Shaft Authority: Environment Agency, Welsh Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Park Day Level Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SE (W)	1134	4	326890 351325
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A13SE (N)	0	4	328031 351488
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (N)	0	5	328031 351488
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (N)	0	5	328031 351488
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	207	2	327845 351360
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	240	2	327880 351280
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	210	2	327845 351355

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
28	**Detailed River Network Lines** River Type: Primary River River Name: River Clywedog Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	223	4	327836 351347
29	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A18SW (N)	328	4	328023 351832
30	**Detailed River Network Lines** River Type: Primary River River Name: River Clywedog Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (S)	337	4	327915 351154
31	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (S)	337	4	327915 351154
32	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A14NW (E)	437	4	328452 351662

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A18SE (N)	467	4	328096 351969
34	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A18SE (N)	474	4	328116 351973
35	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A18SE (NE)	488	4	328317 351907
36	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NE (S)	489	4	328064 350986
37	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NE (S)	489	4	328064 350986
38	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NW (S)	497	4	327995 350978

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NE (S)	497	4	328063 350978
40	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NW (S)	498	4	327992 350977
41	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NW (S)	498	4	327992 350977
42	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NW (S)	499	4	328011 350975
43	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A8NE (S)	499	4	328031 350975
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Coedpoeth Name: Rhosberse - Pengelli Avenue Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14132 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0070 BGS Ref: Not Supplied Other Ref: Not Supplied	A9NE (SE)	998	2	328782 350817
45	**Licensed Waste Management Facilities (Locations)** Licence Number: 37059 Location: Marions House, New Brighton, Minera, Wrexham, Clwyd, LL11 3DS Operator Name: Williams Henry Kingsley Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Modified** Issued: 16th February 1993 Last Modified: 28th January 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	808	2	327254 351206
46	**Licensed Waste Management Facilities (Locations)** Licence Number: 37287 Location: Station House, Old Road, Minera, Wrexham, Clwyd, LL11 3YQ Operator Name: S And K Matthews Skip Hire Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Issued** Issued: 29th November 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	819	2	327515 352131
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	328031 351488
47	**Local Authority Recorded Landfill Sites** Location: Rhosberse/Pengelli Avenue, Coedpoeth, Wrexham Reference: 6955/0070 Authority: Wrexham County Borough Council **Last Reported Status: Closed** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	902	6	328644 350812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Treatment or Disposal Sites				
48	Licence Holder: H & K Motors Licence Reference: NOW-522-L (L74) Site Location: Marlons House, New Brighton, Minera, Wrexham, Clwyd Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st February 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Batteries Max.Stor; Brake/Clutch Fluid Max.Stor; Coolant (Water/Ethylene Glycol) M.Stor; Fuel Oils Max.Stor; Gearbox/Transmissions Max.Stor; Int.Combust.Engines Max.Stor; Mineral/Lubricating Oils Max.Stor; Petrol Max.Stor; Scrap Motor; Tyres Max.Stor Prohibited Waste: Cadmium Compounds; Elemental Sodium/Potassium; Fine Powdered Waste; Liquified Gas / Gas Under Pressure; Mercury Compounds; Percussive/Explosive Waste; Radioactive Wastes; Spec.Waste (Epa'90:S62/1996 Regs)N.O.S; Waste In Drums/Cont'Rs; Waste N.O.S.	A12SW (W)	813	4	327250 351200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	A13SE (N)	0	5	328031 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (N)	0	7	328031 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (SW)	1	7	328020 351473
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (W)	13	7	328000 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	15	7	328000 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (W)	47	7	327966 351482
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	60	7	327963 351514

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	147	7	328190 351533
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	156	7	328175 351586
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NW (NW)	169	7	327936 351637
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NW (NW)	199	7	327839 351576
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SE (SE)	224	7	328226 351359
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (SW)	226	7	327810 351382

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	228	7	327824 351353
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SE (SE)	241	7	328228 351334
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (W)	243	7	327776 351430
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	280	7	328123 351772
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	280	7	327803 351296
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	312	7	327705 351433

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13SW (S)	319	7	328000 351155
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	342	7	328361 351632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NE (W)	346	7	327683 351584
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	350	7	328332 351699
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SE (N)	356	7	328124 351851
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	361	7	327955 351855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	371	7	328000 351104
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	376	7	328298 351780
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NE (W)	381	7	327640 351558
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	381	7	328006 351093
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (NW)	402	7	327672 351693
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	409	7	328456 351463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	433	7	328000 351042
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	439	7	328188 351918
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	447	7	328012 351027
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	461	7	328263 351909
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	474	7	328011 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	474	7	328031 351000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	474	7	328033 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A8NE (S)	474	7	328052 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	475	7	328000 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	495	7	328031 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	497	7	328000 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	498	7	328092 352000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	500	7	327976 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SE (NE)	504	7	328252 351963
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	509	7	328217 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SW (N)	517	7	327895 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	520	7	328539 351325
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	530	7	328565 351380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	533	7	327777 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	534	7	328554 351325
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SE (NE)	536	7	328246 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	546	7	328272 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	546	7	328296 351987
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (NE)	563	7	328564 351720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	574	7	327524 351181
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SE (NE)	592	7	328366 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	592	7	328640 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	593	7	328640 351530
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	595	7	328640 351437
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	597	7	328000 352100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	599	7	328617 351309
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	603	7	328618 351691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	604	7	328641 351382
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	605	7	328116 350875
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	611	7	327635 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	612	7	328401 352000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	617	7	328639 351319
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	628	7	328639 351283
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	629	7	328429 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	636	7	327643 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	638	7	328153 350848
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A8NE (S)	662	7	328189 350831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	668	7	328589 351887
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	674	7	328708 351358
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	681	7	328715 351354
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	685	7	327329 351510
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	691	7	328185 350800
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	693	7	328526 352000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	701	7	328697 351231
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	704	7	328622 351903
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	715	7	328636 351901
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	718	7	328643 351895
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	719	7	328629 351920
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	720	7	328181 350770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	721	7	328652 351889
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NW (N)	724	7	328000 352227
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	737	7	328587 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	740	7	328592 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	744	7	328581 352017
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	750	7	327638 352137

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NW (W)	757	7	327269 351619
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SW)	761	7	327526 350895
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	776	7	327254 351645
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SW)	777	7	327403 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	778	7	327464 350930
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	778	7	327474 350920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	787	7	328667 351982
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	790	7	328175 350697
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	791	7	328658 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SE (NE)	793	7	328759 351846
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19NW (NE)	795	7	328470 352175
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	796	7	328000 350678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	797	7	328812 351723
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SW)	798	7	327376 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A7SE (SW)	806	7	327616 350777
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	831	7	328868 351632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	851	7	328862 351745
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	874	7	327511 350764

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SE (NE)	880	7	328769 352000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	891	7	328083 352395
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A7SE (SW)	894	7	327653 350659
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NW (W)	897	7	327138 351676
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	898	7	327320 350910
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	910	7	328353 352360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7NW (SW)	914	7	327236 351000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	925	7	328096 352428
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	944	7	328288 352416
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NW (W)	948	7	327078 351639
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NW (W)	948	7	327078 351639
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NW (N)	949	7	327963 352450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	952	7	329000 351488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	952	7	329000 351489
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	955	7	329000 351564
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	956	7	328251 352438
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	958	7	328960 351202
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SE (NE)	967	7	328919 351914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	967	7	329000 351664
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	973	7	328175 352469
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	974	7	328000 352477
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14NE (E)	977	7	329000 351714
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	981	7	327043 351622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SE (NE)	983	7	328892 352000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	983	7	328991 351216
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7NW (SW)	985	7	327180 350955
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A14SE (E)	993	7	329000 351212
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	994	7	327046 351712
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18NE (N)	998	7	328156 352496
49	**BGS Recorded Mineral Sites** Site Name: Minera Hall Coal Pit Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138293 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	111	5	328087 351606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**BGS Recorded Mineral Sites** Site Name: Minera Hall Coal Pit Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138292 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	172	5	327865 351569
51	**BGS Recorded Mineral Sites** Site Name: Minera Hall Coal Pit Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138291 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	228	5	327855 351645
52	**BGS Recorded Mineral Sites** Site Name: Minera Hall Coal Pit Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138290 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (N)	286	5	328030 351790
53	**BGS Recorded Mineral Sites** Site Name: Old Talwrn Colliery, No. 1 Shaft Location: , Top Talwrn, Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138282 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	399	5	328147 351889
54	**BGS Recorded Mineral Sites** Site Name: Old Talwrn Colliery, No. 2 Shaft Location: , Top Talwrn, Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138283 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	418	5	328207 351888
55	**BGS Recorded Mineral Sites** Site Name: Old Talwrn Colliery Shaft Location: , Top Talwrn, Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138284 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Powell Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	457	5	328340 351850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**BGS Recorded Mineral Sites** Site Name: Grosvenor New Shaft Location: , The Smelt, Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138281 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (N)	497	5	327886 351977
57	**BGS Recorded Mineral Sites** Site Name: Talwrn Brick Works Location: , Coedpoeth, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 198581 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (E)	594	5	328621 351340
58	**BGS Recorded Mineral Sites** Site Name: New Minera Lead Mine, Burton'S Shaft Location: , New Brighton, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 184979 Type: Underground **Status: Ceased** Operator: United Minera Mining Co., Ltd. Operator Location: United Minera Mining Co., Ltd., Minera, Wrexham, Denbighshire Periodic Type: Not Available Geology: ! Commodity: Vein Minerals Positional Accuracy: Located by supplier to within 10m	A8NW (S)	636	5	327854 350860
59	**BGS Recorded Mineral Sites** Site Name: Pentre'R-From Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138308 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	661	5	328213 352143
60	**BGS Recorded Mineral Sites** Site Name: Talwrn Colliery, Upcast Shaft Location: , Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138287 Type: Underground **Status: Ceased** Operator: Vron Colliery Co., Ltd. Operator Location: Vron Colliery Co., Ltd., Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Powell Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	708	5	328755 351527
60	**BGS Recorded Mineral Sites** Site Name: Talwrn Colliery, Downcast Shaft Location: , Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138288 Type: Underground **Status: Ceased** Operator: Vron Colliery Co., Ltd. Operator Location: Vron Colliery Co., Ltd., Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Powell Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	749	5	328797 351510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**BGS Recorded Mineral Sites** Site Name: Talwrn Colliery, Jack Pit Location: , Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138289 Type: Underground **Status: Ceased** Operator: Vron Colliery Co., Ltd. Operator Location: Vron Colliery Co., Ltd., Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Powell Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	750	5	328797 351525
61	**BGS Recorded Mineral Sites** Site Name: Minera Lead Mines, Meadow Shaft Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138296 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	736	5	327518 350936
62	**BGS Recorded Mineral Sites** Site Name: Plas Mostyn Coal Pit Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138285 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	788	5	328460 352172
63	**BGS Recorded Mineral Sites** Site Name: Penygelli Quarries Location: Penygelli Road, Coedpoth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15646 Type: Opencast **Status: Ceased** Operator: Richard Williams Operator Location: Richard Williams, Penygelli Quarries, Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	793	5	328520 350850
63	**BGS Recorded Mineral Sites** Site Name: Penygelli Quarries Location: Penygelli Road, Coedpoeth, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 184980 Type: Opencast **Status: Ceased** Operator: Richard Williams Operator Location: Richard Williams, Penygelli Quarries, Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	838	5	328535 350805
64	**BGS Recorded Mineral Sites** Site Name: The Wern Location: , Coedpoeth, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 184986 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A8SW (S)	796	5	327877 350691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**BGS Recorded Mineral Sites** Site Name: Penygelli Quarries Location: , Coedpoeth, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138323 Type: Opencast **Status: Ceased** Operator: Richard Williams Operator Location: Richard Williams, Penygelli Quarries, Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	800	5	328477 350810
66	**BGS Recorded Mineral Sites** Site Name: Minera Lead Mines, Roy'S Shaft Location: , Minera, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138295 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	859	5	327261 351066
67	**BGS Recorded Mineral Sites** Site Name: Park Day Level Workings Location: , Minera, Wrexham Source: British Geological Survey, National Geoscience Information Service Reference: 198628 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A12NW (W)	879	5	327143 351609
67	**BGS Recorded Mineral Sites** Site Name: Park Day Level Location: , Minera, Wrexham Source: British Geological Survey, National Geoscience Information Service Reference: 198627 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A12NW (W)	896	5	327128 351621
68	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Gelli Shaft Location: , Coedpoeth, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 198582 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	889	5	328696 350885
69	**BGS Recorded Mineral Sites** Site Name: Minera Stone Quarry Location: , Adw'R Clawdd, Coedpath, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 197832 Type: Opencast **Status: Ceased** Operator: Henry Jones Operator Location: Henry Jones, Minera Stone Quarry, Minera, Wrexham, Denbighshire Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	985	5	328720 350770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**BGS Recorded Mineral Sites** Site Name: Brighton Location: , Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15653 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Cefn Y Fedw Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	987	5	327122 351058
71	**BGS Recorded Mineral Sites** Site Name: The Wern Location: , Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15649 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Cefn Y Fedw Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	996	5	327378 350713
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (N)	0	8	328031 351488
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (N)	0	-	328031 351500
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (N)	0	-	328031 351488
	Mining Instability Mining Evidence: Conclusive Metaliferous Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (N)	0	-	328031 351488
	Man-Made Mining Cavities Easting: 327800 Northing: 350800 Distance: 709 Quadrant Reference: A8 Quadrant Reference: SW Bearing Ref: S Cavity Type: Not supplied Commodity: Not Supplied Solid Geology Detail: No Details Superficial Geology Detail: No Details	A8SW (S)	709	9	327800 350800
	Man-Made Mining Cavities Easting: 327500 Northing: 350900 Distance: 775 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Not supplied Commodity: Not Supplied Solid Geology Detail: No Details Superficial Geology Detail: No Details	A7NE (SW)	775	9	327500 350900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 327200 Northing: 351000 Distance: 945 Quadrant Reference: A7 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Not supplied Commodity: Not Supplied Solid Geology Detail: No Details Superficial Geology Detail: No Details	A7NW (SW)	945	9	327200 351000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	42	5	327976 351462
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	119	5	327936 351390
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	141	5	327913 351382
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	1	5	328020 351473
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	1	5	328020 351473
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	241	5	328228 351334
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	5	328031 351488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**Contemporary Trade Directory Entries** Name: Baldock Blinds & Curtains Location: 73, High Street, Coedpoeth, Wrexham, Clwyd, LL11 3UG Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (W)	15	-	328009 351497
73	**Contemporary Trade Directory Entries** Name: Ivor Owen & Sons Location: Cwm Machno, Old Smelt Road, Coedpoeth, Wrexham, Clwyd, LL11 3UN Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	97	-	327922 351449
74	**Contemporary Trade Directory Entries** Name: Debi'S Domestic Support Location: 14, Fferm Llidiart Werdd, Coedpoeth, Wrexham, Clwyd, LL11 3PX Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	115	-	328129 351579
74	**Contemporary Trade Directory Entries** Name: Here2help Location: 14, Fferm Llidiart Werdd, Coedpoeth, Wrexham, Clwyd, LL11 3PX Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	115	-	328129 351579
75	**Contemporary Trade Directory Entries** Name: Jordan'S Commercials Location: Ruthin Rd, Coedpoeth, Wrexham, Clwyd, LL11 3US Classification: Commercial Vehicle Dealers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	214	-	327884 351652
75	**Contemporary Trade Directory Entries** Name: G Jones Location: Awel Bur, Old Road, Minera, Wrexham, Clwyd, LL11 3YS Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	231	-	327876 351667
76	**Contemporary Trade Directory Entries** Name: E Roberts & Sons Location: Clovelly, Heol Caradoc, Coedpoeth, Wrexham, Clwyd, LL11 3PS Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	293	-	328250 351711
77	**Contemporary Trade Directory Entries** Name: Metalmin Ltd Location: Salem Rd, Coedpoeth, Wrexham, Clwyd, LL11 3SG Classification: Alloys **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (SE)	368	-	328370 351318
78	**Contemporary Trade Directory Entries** Name: Ron Austin Location: 24, Gwern y Gaseg Road, Coedpoeth, Wrexham, Clwyd, LL11 3RE Classification: Catering Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	396	-	327911 351879
79	**Contemporary Trade Directory Entries** Name: Armon Location: Unit 34, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Frozen Food Processors & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	445	-	327841 351902
79	**Contemporary Trade Directory Entries** Name: Minera Tyres & Exhausts Ltd Location: Unit 36, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	481	-	327808 351925
80	**Contemporary Trade Directory Entries** Name: M A P Location: Unit 22, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Gearboxes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	463	-	327885 351940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	**Contemporary Trade Directory Entries** Name: Wrexham Windscreens Ltd Location: Unit 23, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Window Tinting **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	468	-	327881 351944
80	**Contemporary Trade Directory Entries** Name: T R Ogden Location: Unit 24, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	474	-	327877 351949
80	**Contemporary Trade Directory Entries** Name: Winston Harris Location: Unit 27, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	490	-	327866 351962
80	**Contemporary Trade Directory Entries** Name: Wrexham Installations Location: Unit 28/29, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Conveyors & Conveyor Belts **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	496	-	327862 351967
80	**Contemporary Trade Directory Entries** Name: Speed Manufacturing & Trading Ltd Location: Unit 28-29, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Motor Cycle Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	496	-	327862 351967
81	**Contemporary Trade Directory Entries** Name: Cjc Motor Services Location: Unit 50, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	483	-	327765 351900
81	**Contemporary Trade Directory Entries** Name: Reclaim Services Location: Unit 50, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Chemicals - Distributors & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	483	-	327765 351900
82	**Contemporary Trade Directory Entries** Name: High Street Cars Location: 26, High Street, Coedpoeth, Wrexham, Clwyd, LL11 3SB Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	485	-	328411 351174
83	**Contemporary Trade Directory Entries** Name: Minera Garage Location: Unit 30, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	507	-	327854 351976
83	**Contemporary Trade Directory Entries** Name: A & P Auto Panels Location: Unit 31, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	512	-	327851 351980
83	**Contemporary Trade Directory Entries** Name: Cam Gas (Wrexham) Ltd Location: Five Crosses Industrial Estate, Minera, WREXHAM, Clwyd, LL11 3RD Classification: Gas Suppliers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	531	-	327820 351987

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**Contemporary Trade Directory Entries** Name: G & R Rewinds Location: Unit A, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Electric Motor Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A18SW (NW)	544	-	327812 351997
83	**Contemporary Trade Directory Entries** Name: Site Solutions Location: Unit 1, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Engineering Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	589	-	327778 352030
84	**Contemporary Trade Directory Entries** Name: Hammy'S Location: Unit D,Five Crosses Ind Est, Minera, Wrexham, Clwyd, LL11 3RD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	539	-	327742 351952
84	**Contemporary Trade Directory Entries** Name: Night & Day Location: Unit F,Five Crosses Ind Est, Minera, Wrexham, Clwyd, LL11 3RD Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	544	-	327762 351971
85	**Contemporary Trade Directory Entries** Name: Industrial Engineering Services Ltd Location: Unit 5,6,Five Crosses Ind Est, Minera, Wrexham, Clwyd, LL11 3RD Classification: Engineers - General **Status: Active** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	602	-	327825 352066
85	**Contemporary Trade Directory Entries** Name: Body Repairs Location: Unit 7,8,Five Crosses Ind Est, Minera, Wrexham, Clwyd, LL11 3RD Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	607	-	327844 352078
85	**Contemporary Trade Directory Entries** Name: Straffords Coaches Location: Unit 7-8, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Bus & Coach Operators & Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	608	-	327845 352079
86	**Contemporary Trade Directory Entries** Name: Bd Automotive Location: Unit A, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	609	-	327729 352027
86	**Contemporary Trade Directory Entries** Name: Fat Dubbers Car Tuning & Servicing Specialists Location: Unit G, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	616	-	327699 352016
86	**Contemporary Trade Directory Entries** Name: A & C Pierce Location: Unit C, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	624	-	327719 352039
86	**Contemporary Trade Directory Entries** Name: Williams Accident Repairs Location: Unit G, Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	627	-	327695 352027
87	**Contemporary Trade Directory Entries** Name: Wrexham Autokraft Location: Unit35,Five Crosses Ind Est, Minera, Wrexham, Clwyd, LL11 3RD Classification: Car Body Repairs **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	626	-	327776 352071

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	**Contemporary Trade Directory Entries** Name: Tony Harrison Location: Tudor Street, Coedpoeth, Wrexham, Clwyd, LL11 3RP Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	672	-	328427 350932
89	**Contemporary Trade Directory Entries** Name: Minera Building Supplies Location: Five Crosses Industrial Estate, Minera, Wrexham, Clwyd, LL11 3RD Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	674	-	327682 352075
90	**Contemporary Trade Directory Entries** Name: Ivor Owen & Sons Location: 54, Minera Hall Road, Minera, Wrexham, Clwyd, LL11 3YD Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	766	-	327345 351855
91	**Contemporary Trade Directory Entries** Name: Shiny Bikes Location: 7, Heritage Heights, Coedpoeth, Wrexham, Clwyd, LL11 3RJ Classification: Cycle Accessories, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	798	-	328433 350785
92	**Contemporary Trade Directory Entries** Name: North & Mid Wales Pest Control Location: 47, Minera Hall Road, Minera, Wrexham, Clwyd, LL11 3YF Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	861	-	327245 351870
93	**Contemporary Trade Directory Entries** Name: H K Motors Location: Marion House, New Brighton, Minera, Wrexham, Clwyd, LL11 3DS Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	888	-	327272 350992
93	**Contemporary Trade Directory Entries** Name: H K Motors Location: Marion House, New Brighton, Minera, Wrexham, Clwyd, LL11 3DS Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	888	-	327272 350992
94	**Fuel Station Entries** Name: Co-Op Coedpoeth Location: High Street, Coedpoeth, Wrexham, Clwyd, LL11 3UF Brand: Texaco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	60	-	328077 351436

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**Areas of Outstanding Natural Beauty** Name: Bryniau Clwyd A Dyffryn Dyfrdw Multiple Areas: N Total Area (m2): 389277308.58 Designation Date: 22nd November 2011 Source: Natural Resources Wales	A7NE (SW)	624	2	327560 351052

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Denbighshire County Council - Public Protection Department	April 2013	Annual Rolling Update
Flintshire Council - Environmental Health Department	April 2014	Annual Rolling Update
Wrexham County Borough Council - Public Protection Department	December 2013	Annually
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	November 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Wrexham County Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Flintshire Council - Environmental Health Department	January 2013	Annual Rolling Update
Denbighshire County Council - Environmental Health Department	March 2013	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Wrexham County Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Flintshire Council - Environmental Health Department	January 2013	Annual Rolling Update
Denbighshire County Council - Environmental Health Department	March 2013	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Wrexham County Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Flintshire Council - Environmental Health Department	January 2013	Annual Rolling Update
Denbighshire County Council - Environmental Health Department	March 2013	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	As notified
Natural Resources Wales	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - Welsh Region	November 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency Wales - North Area	November 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	July 2014	Quarterly
Natural Resources Wales	October 2014	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals		
Environment Agency - Welsh Region	November 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones		
Environment Agency - Head Office	August 2014	Quarterly
Natural Resources Wales	August 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Natural Resources Wales	May 2014	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Natural Resources Wales	May 2014	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2014	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency Wales - North Area	August 2014	Quarterly
Natural Resources Wales	May 2014	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - North Area	August 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - North Area	November 2014	Quarterly
Natural Resources Wales	November 2014	Quarterly
Local Authority Landfill Coverage		
Denbighshire County Council - Environmental Health Department	May 2000	Not Applicable
Flintshire Council - Environmental Health Department	May 2000	Not Applicable
Wrexham County Borough Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Wrexham County Borough Council	June 2003	Not Applicable
Denbighshire County Council - Environmental Health Department	May 2000	Not Applicable
Flintshire Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - North Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites		
Health and Safety Executive	October 2014	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Flintshire Council	April 2013	Annual Rolling Update
Wrexham County Borough Council - Planning Department	April 2014	Annual Rolling Update
Denbighshire County Council - Planning Department	September 2014	Annual Rolling Update
Planning Hazardous Substance Consents		
Flintshire Council	April 2013	Annual Rolling Update
Wrexham County Borough Council - Planning Department	April 2014	Annual Rolling Update
Denbighshire County Council - Planning Department	September 2014	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2014	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty		
Natural Resources Wales	October 2014	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	August 2008	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Denbighshire County Council	October 2014	Bi-Annually
Flintshire Council	October 2014	Bi-Annually
Wrexham County Borough Council	October 2014	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	September 2014	Bi-Annually
National Nature Reserves		
Natural Resources Wales	October 2014	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites		
Natural Resources Wales	October 2014	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2014	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	March 2014	Bi-Annually
Special Protection Areas		
Natural Resources Wales	March 2014	Bi-Annually

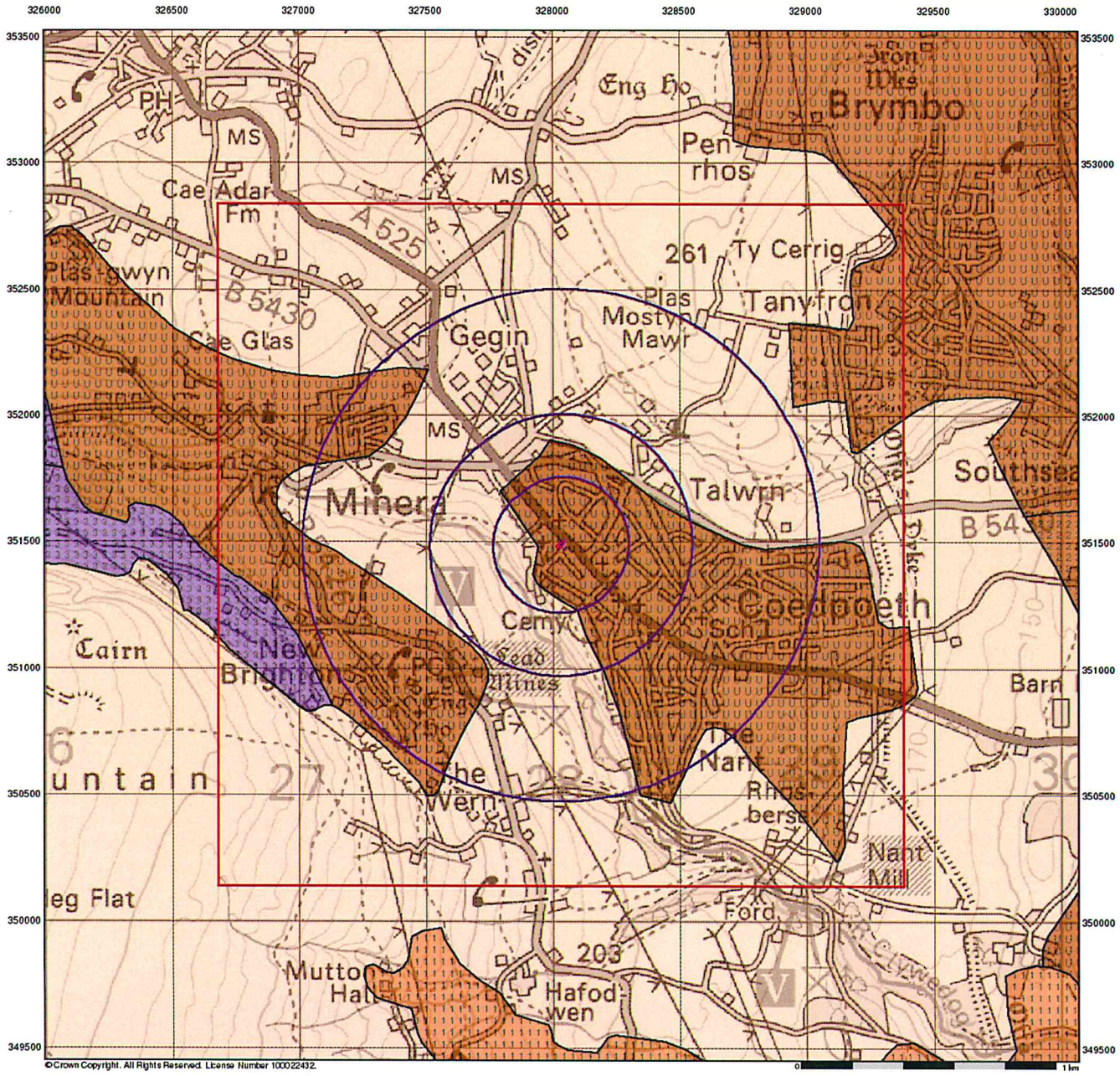
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey® Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	BGS 1835 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Contact	Name and Address	Contact Details
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Wrexham County Borough Council - Environmental Health Department** Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
4	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
5	**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
6	**Wrexham County Borough Council** Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
7	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
8	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
9	**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
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**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

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



Envirocheck®

Groundwater Vulnerability

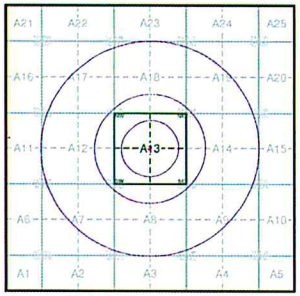
General

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



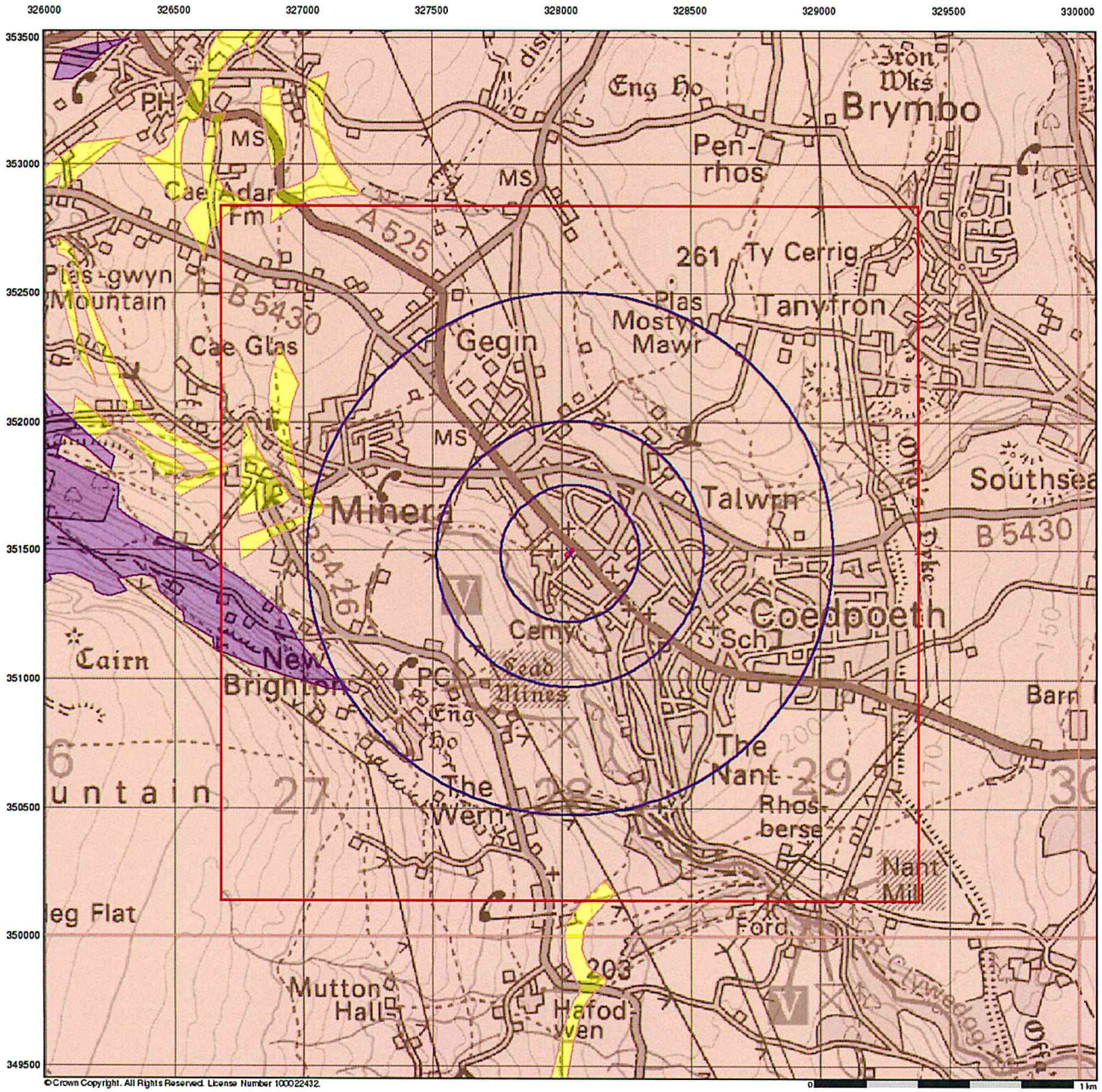
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National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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



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Bedrock Aquifer Designation

General

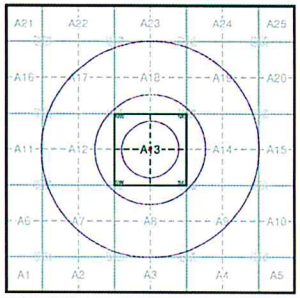
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



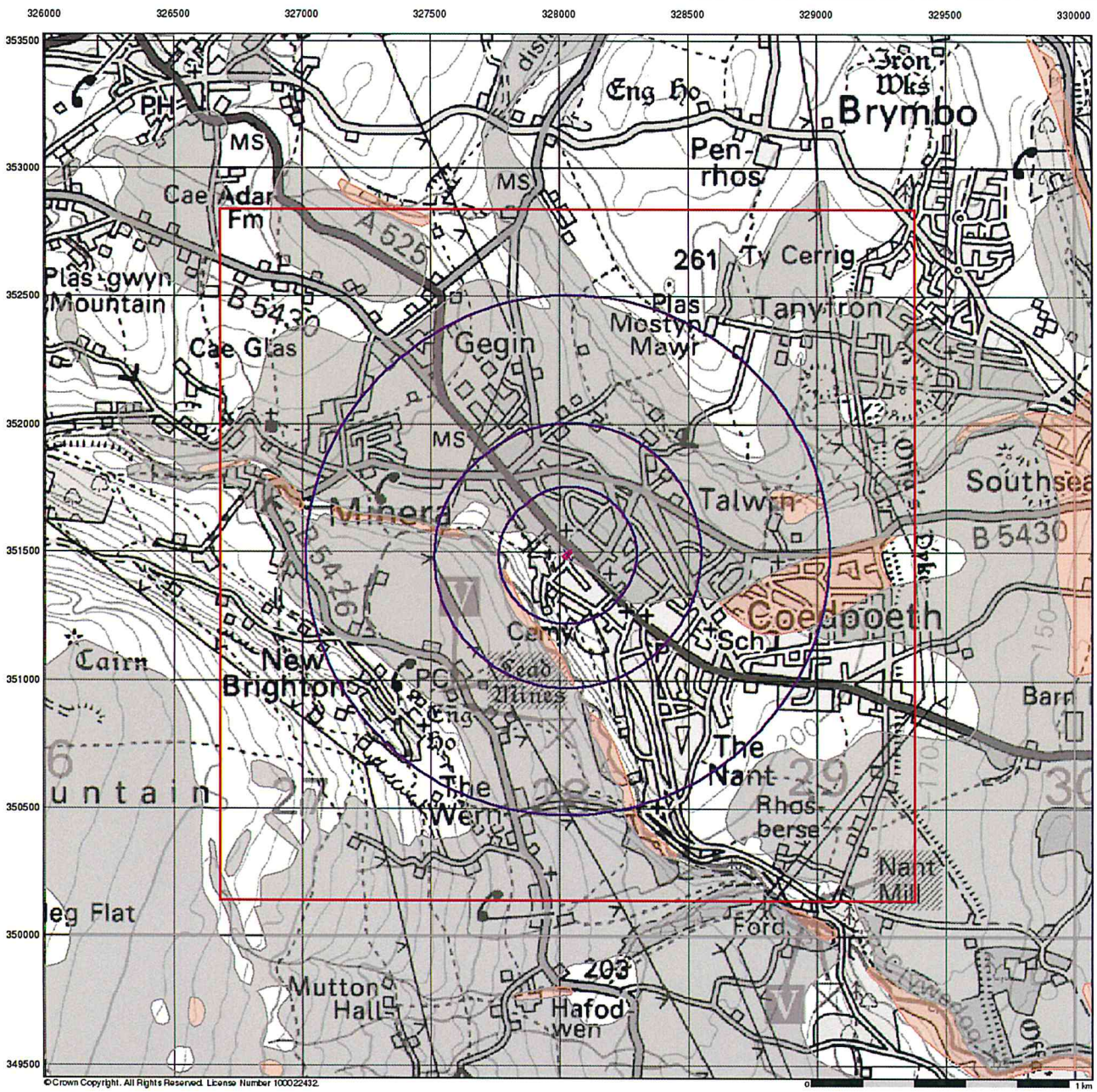
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Customer Ref:	1649/mjs/001
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Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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



Envirocheck®

Superficial Aquifer Designation

General

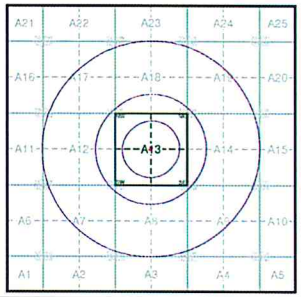
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



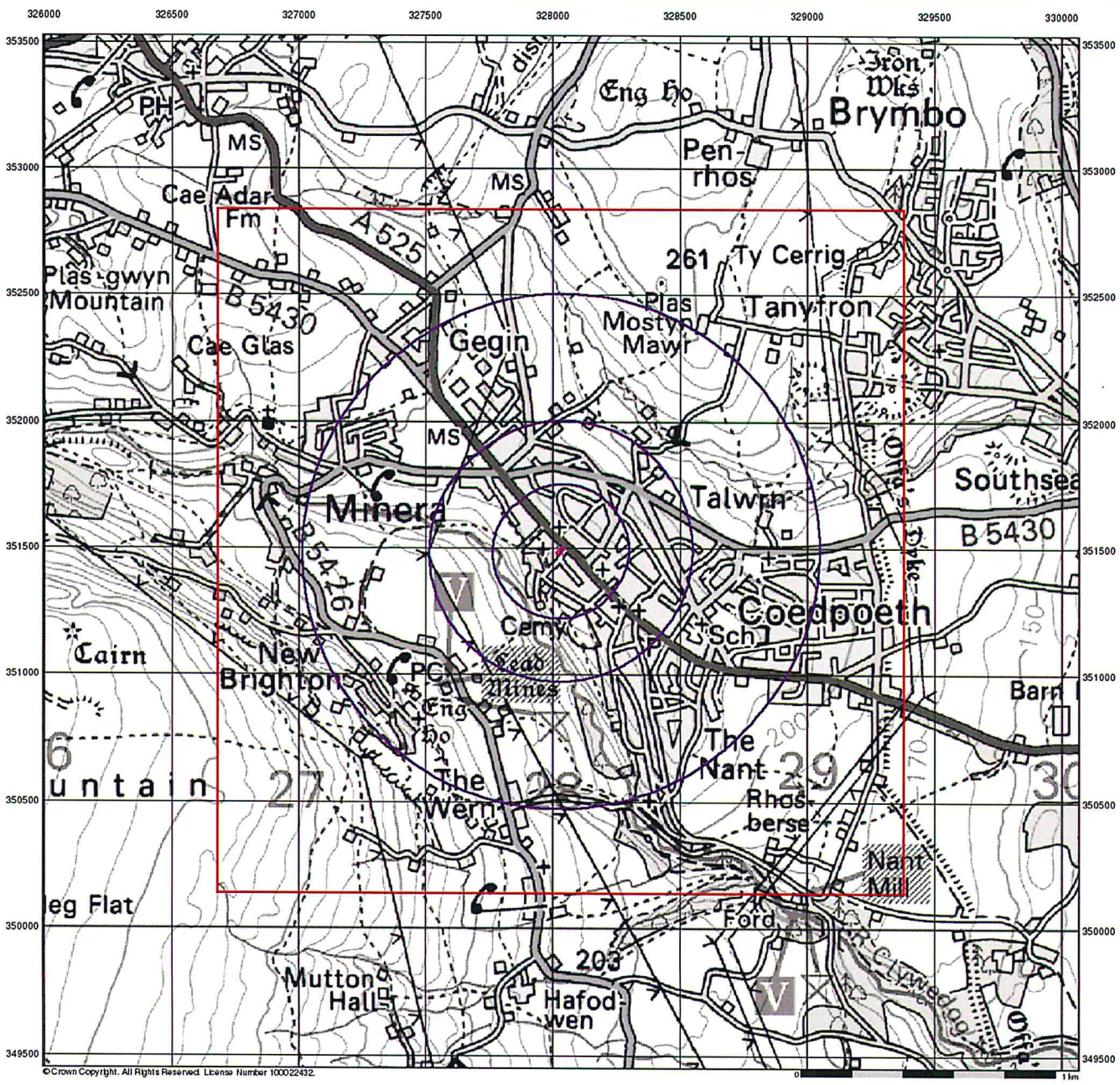
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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



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Source Protection Zones

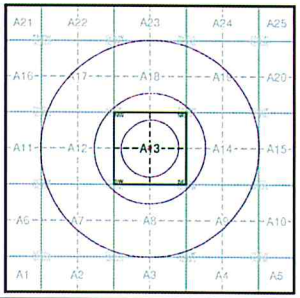
General

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



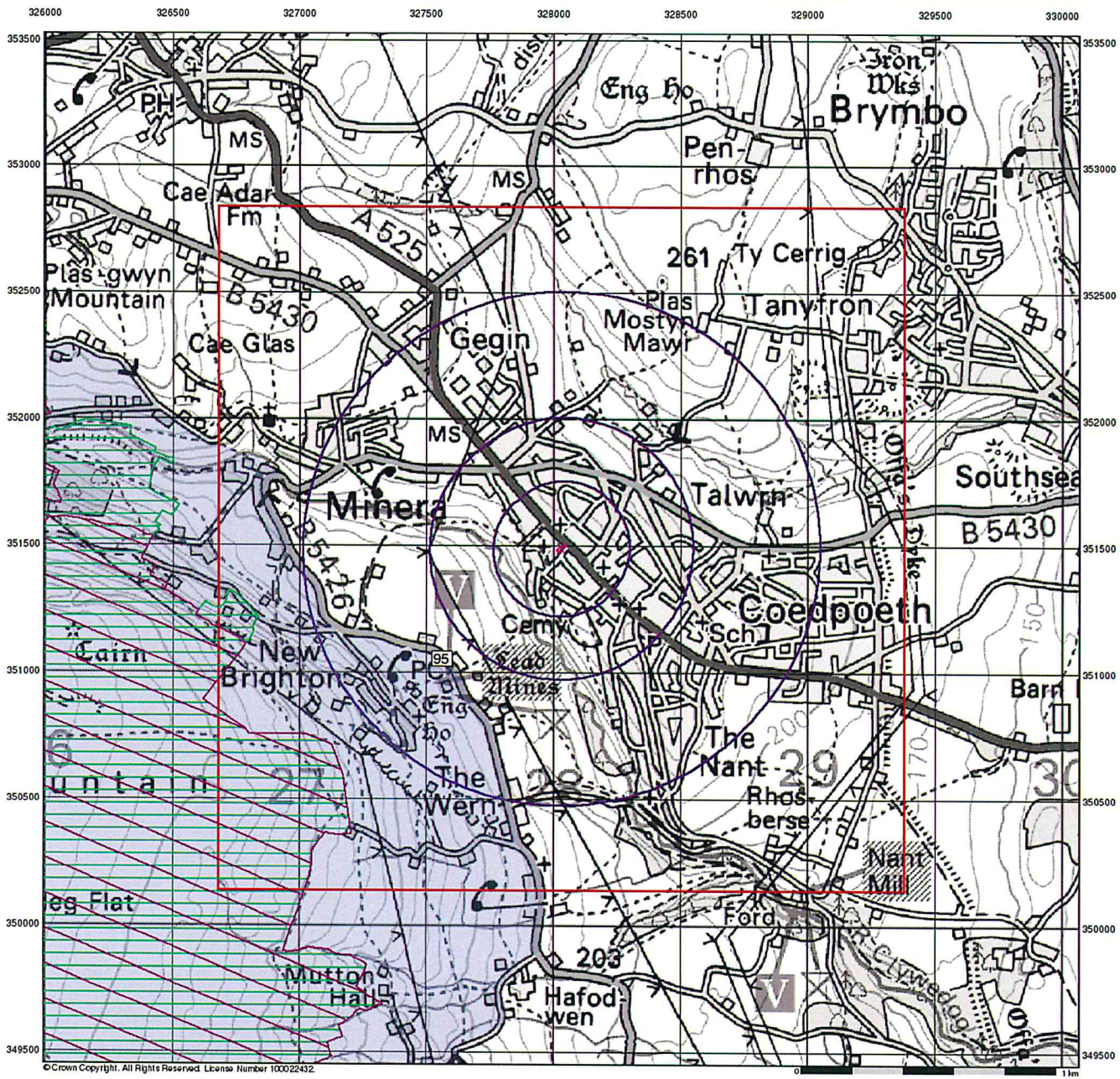
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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Sensitive Land Uses

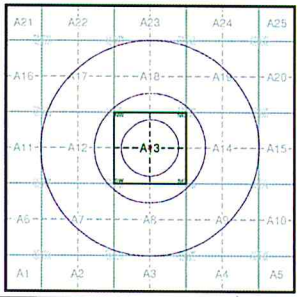
General

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



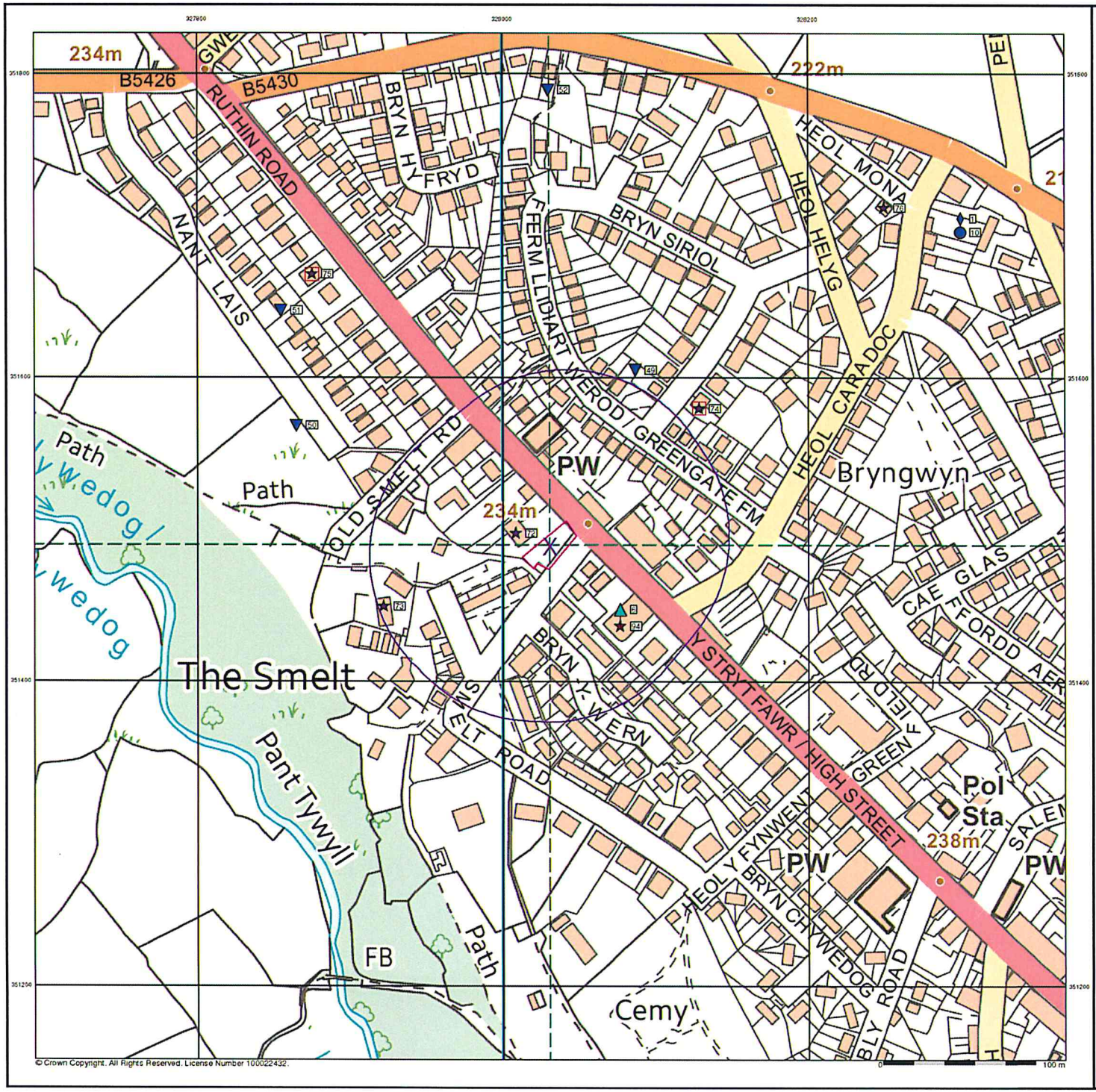
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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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
- 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

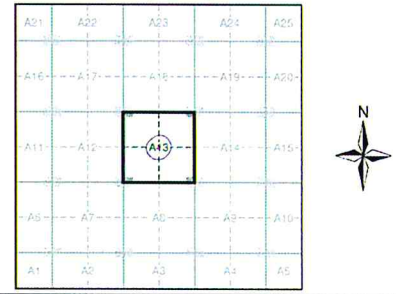
Waste
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- 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

Geological
- BGS Recorded Mineral Site

Hazardous Substances
- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use
- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13

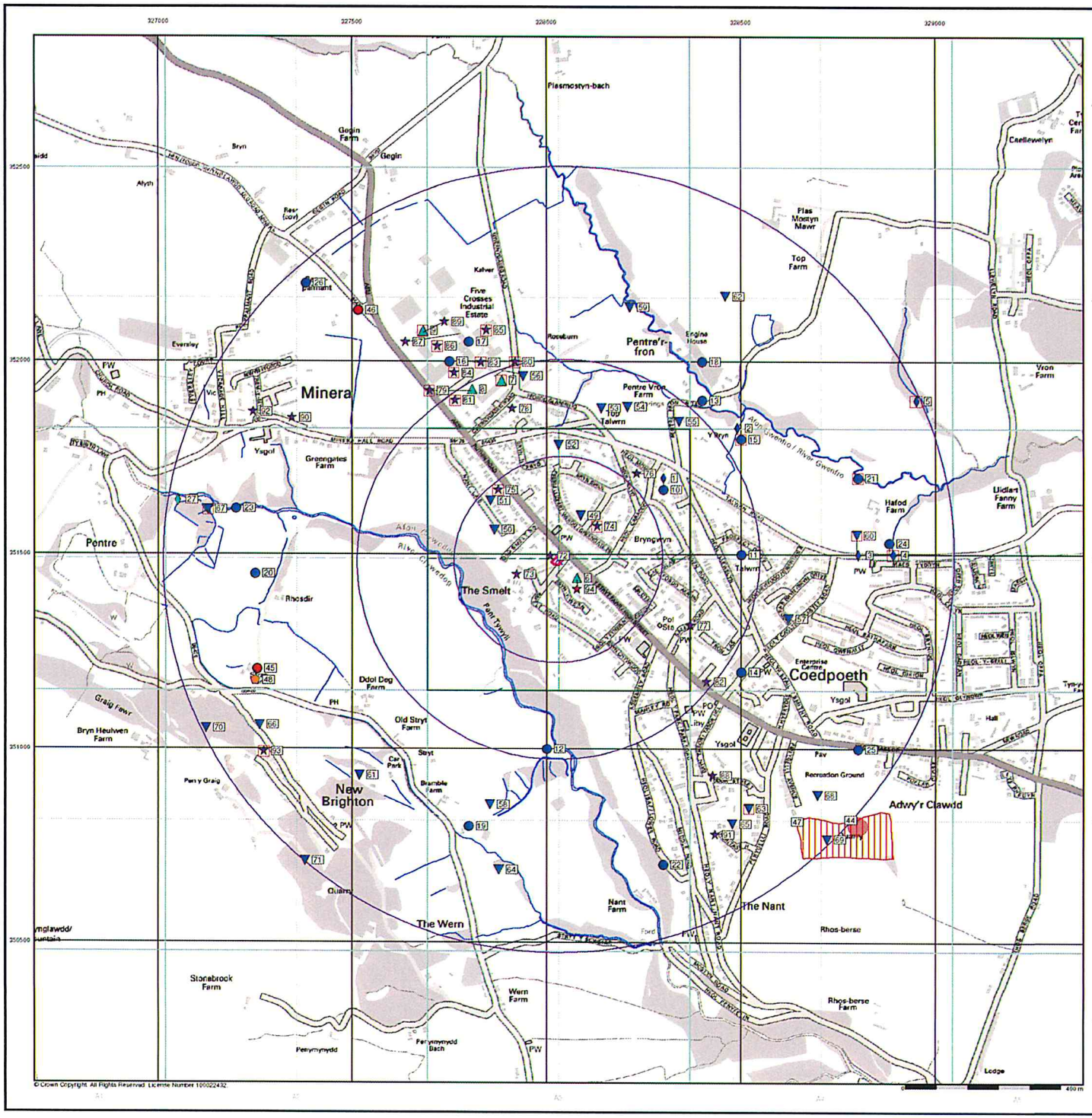


Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06

Site Details
Site at 328000, 351600

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

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

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

Geological

- BGS Recorded Mineral Site

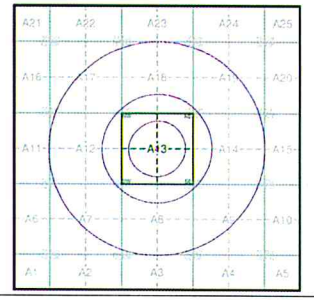
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



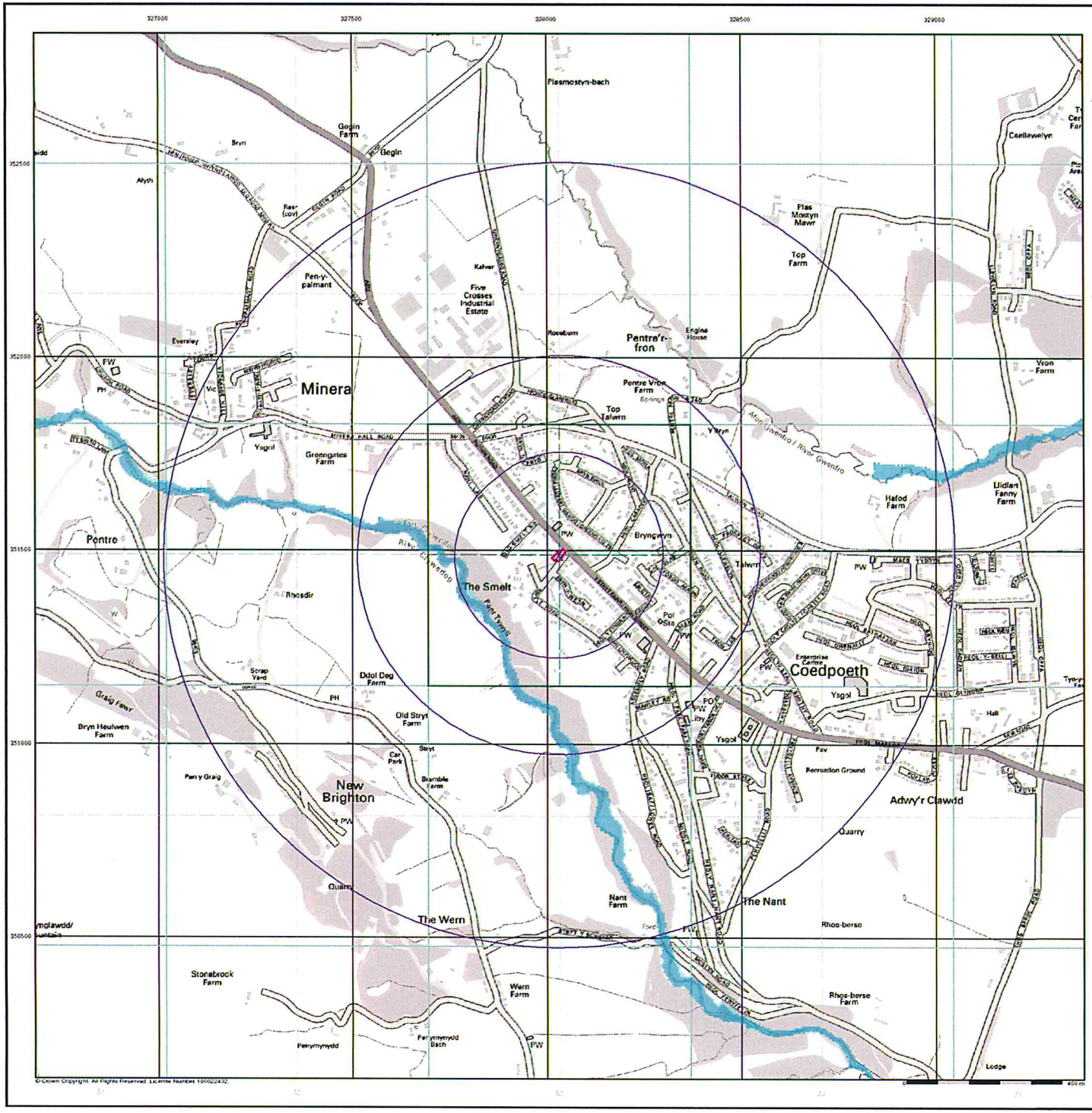
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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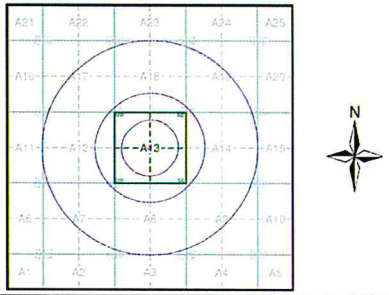
General

- 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



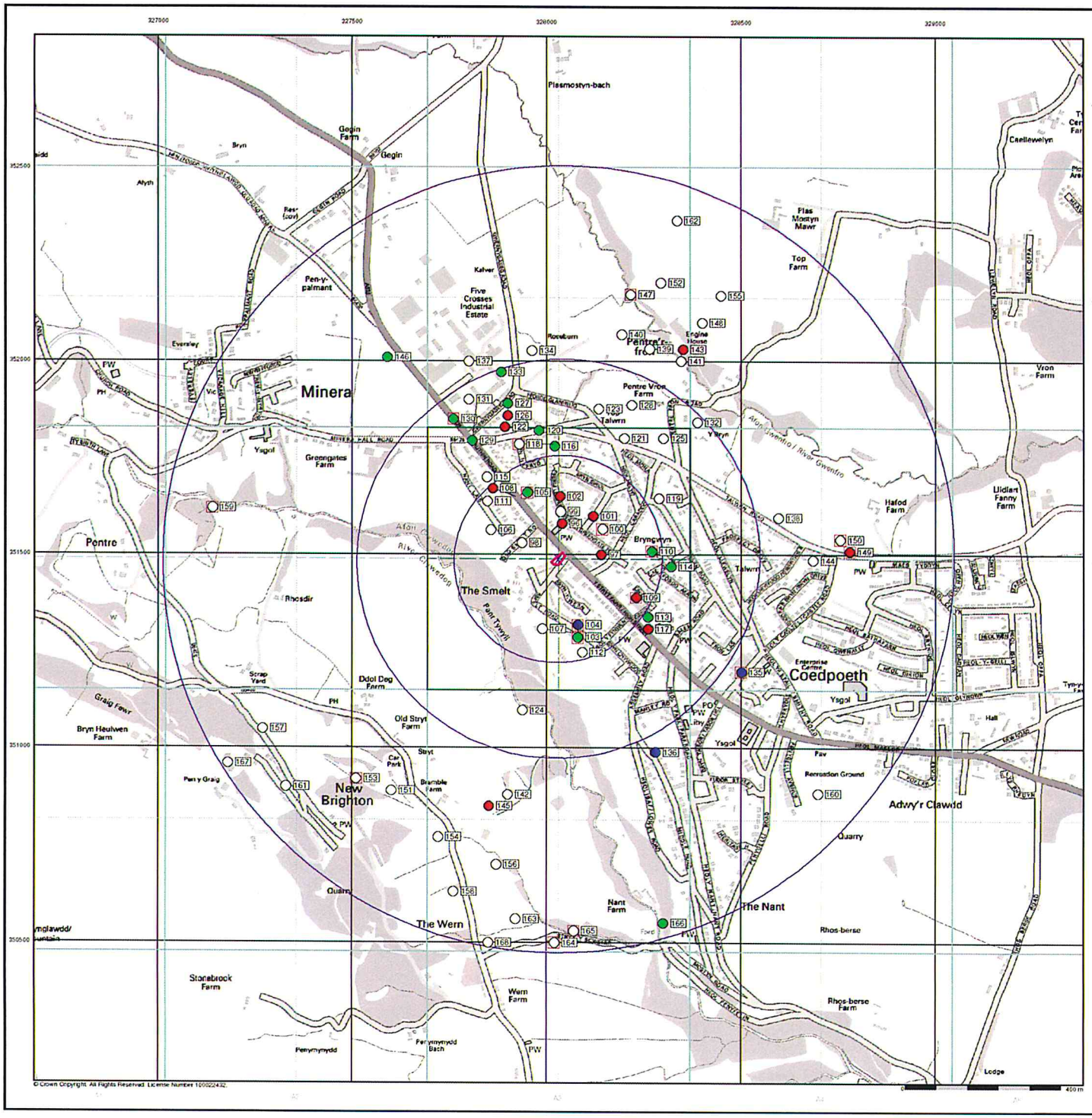
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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General

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

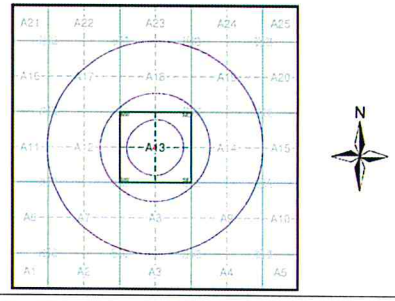
Agency and Hydrological (Boreholes)

- 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



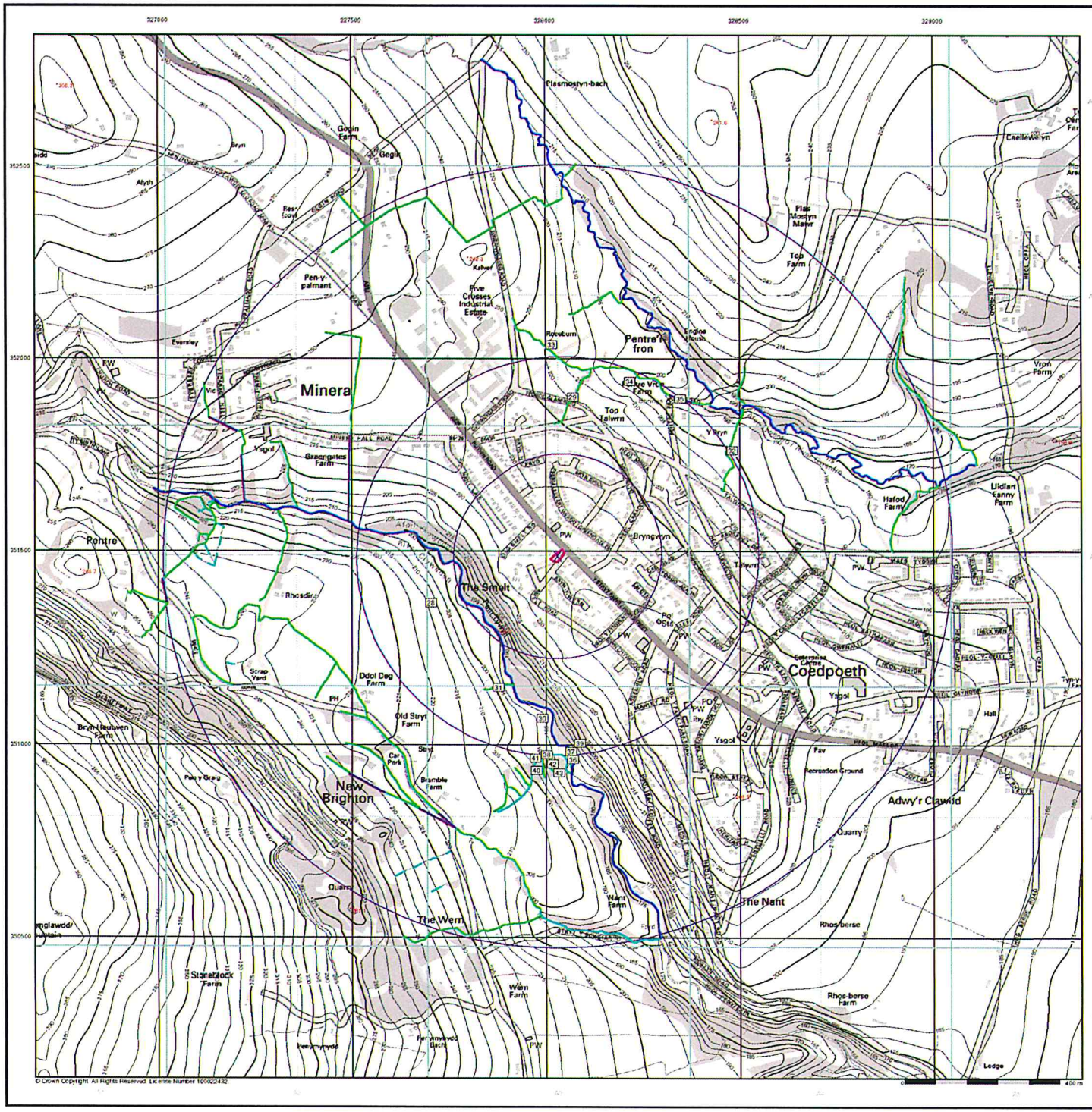
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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Web: www.envirocheck.co.uk



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General

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

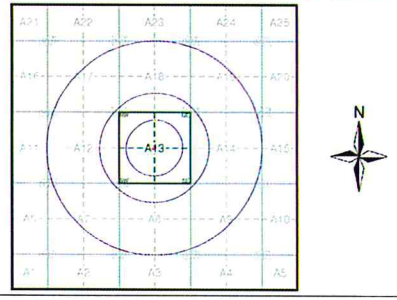
Detailed River Network Data

- 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
- Master Contour
- Spot Height *167.3
- MLW Mean Low Water
- MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



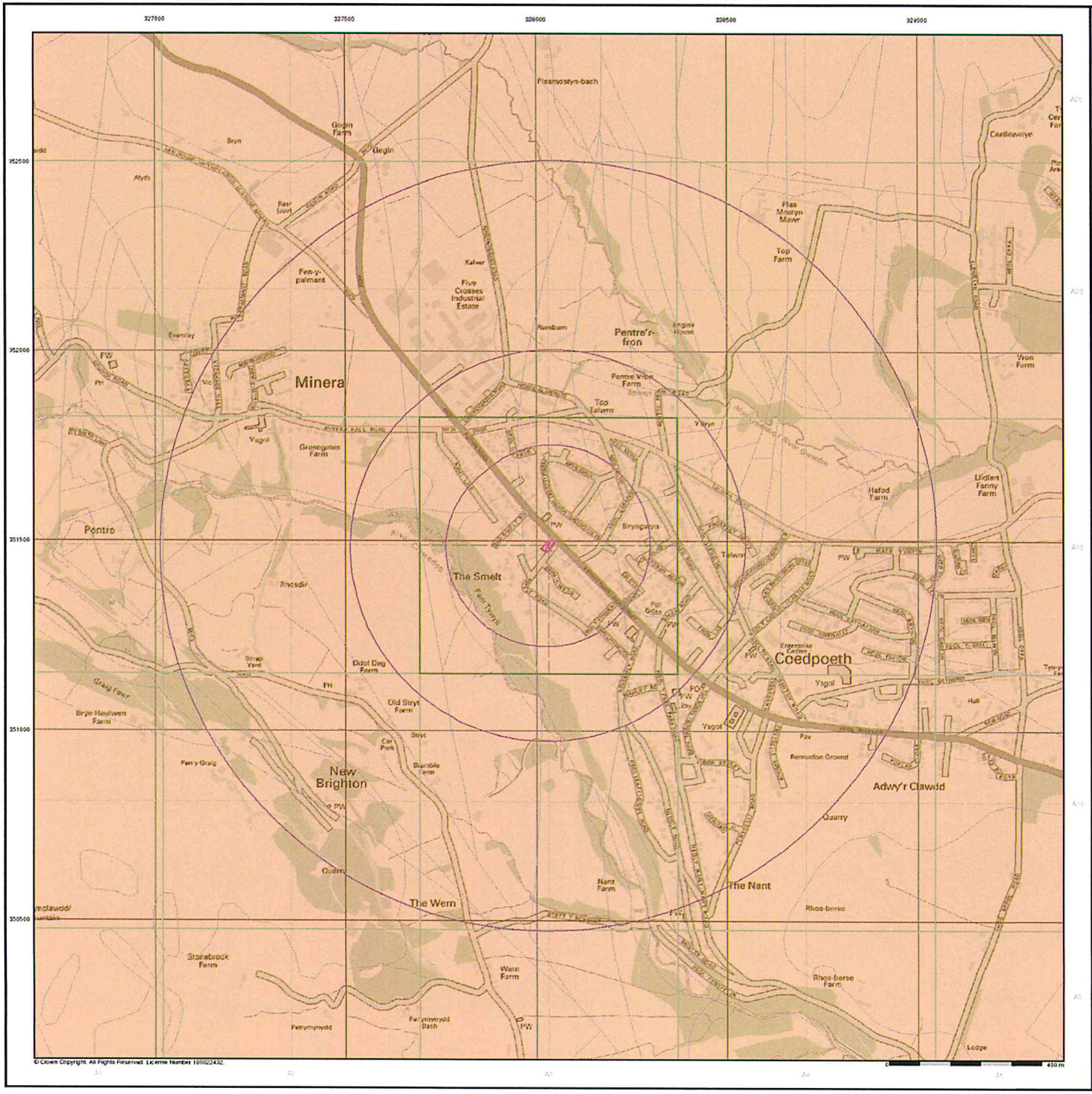
Order Details

Order Number:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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



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General

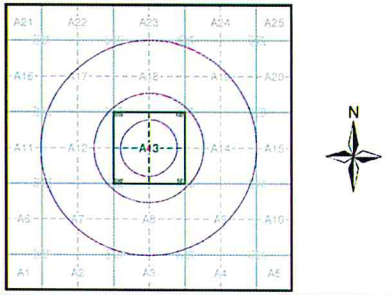
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



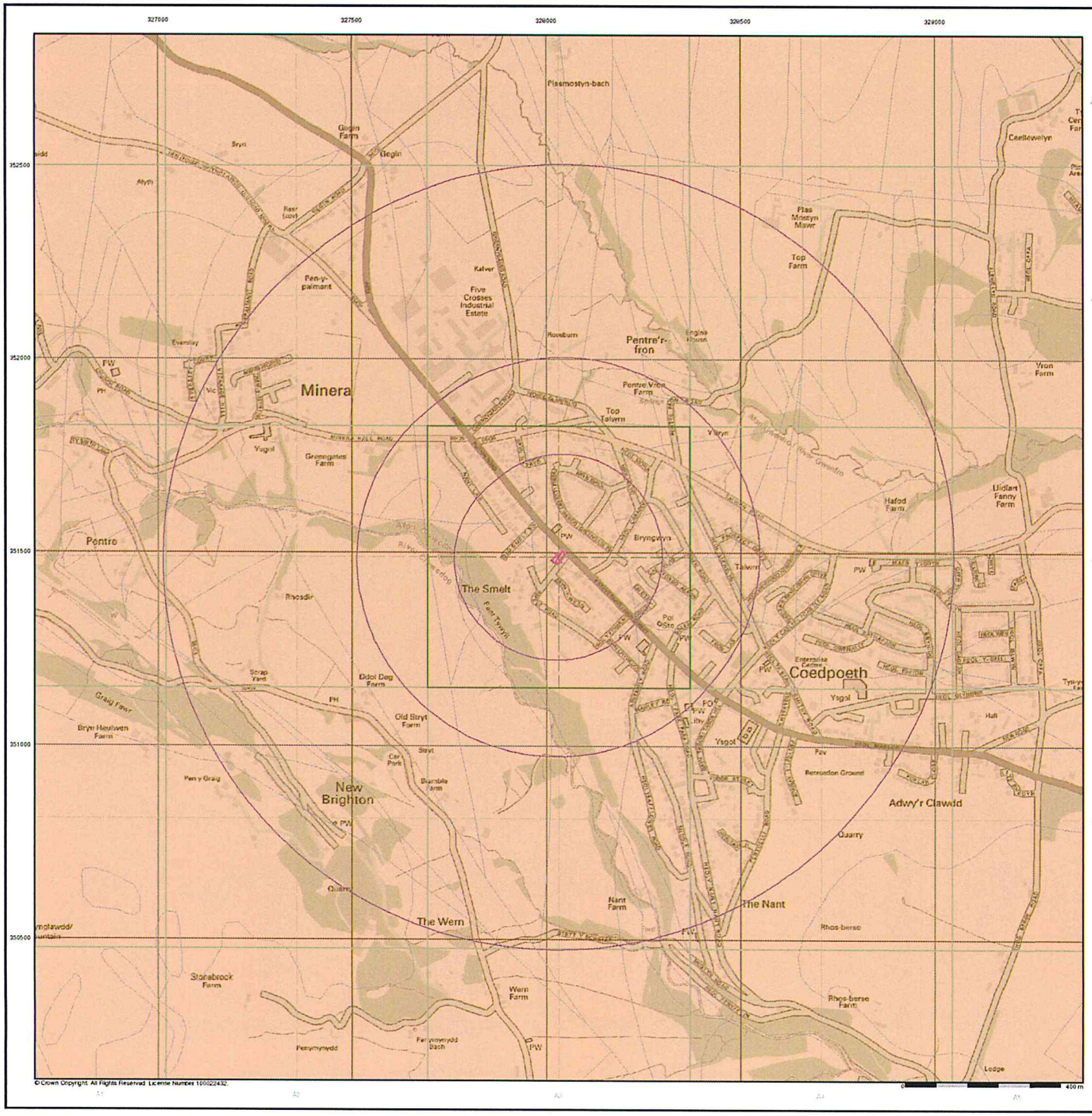
Order Details

Order Details:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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



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General

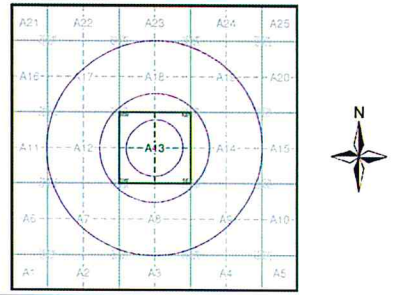
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



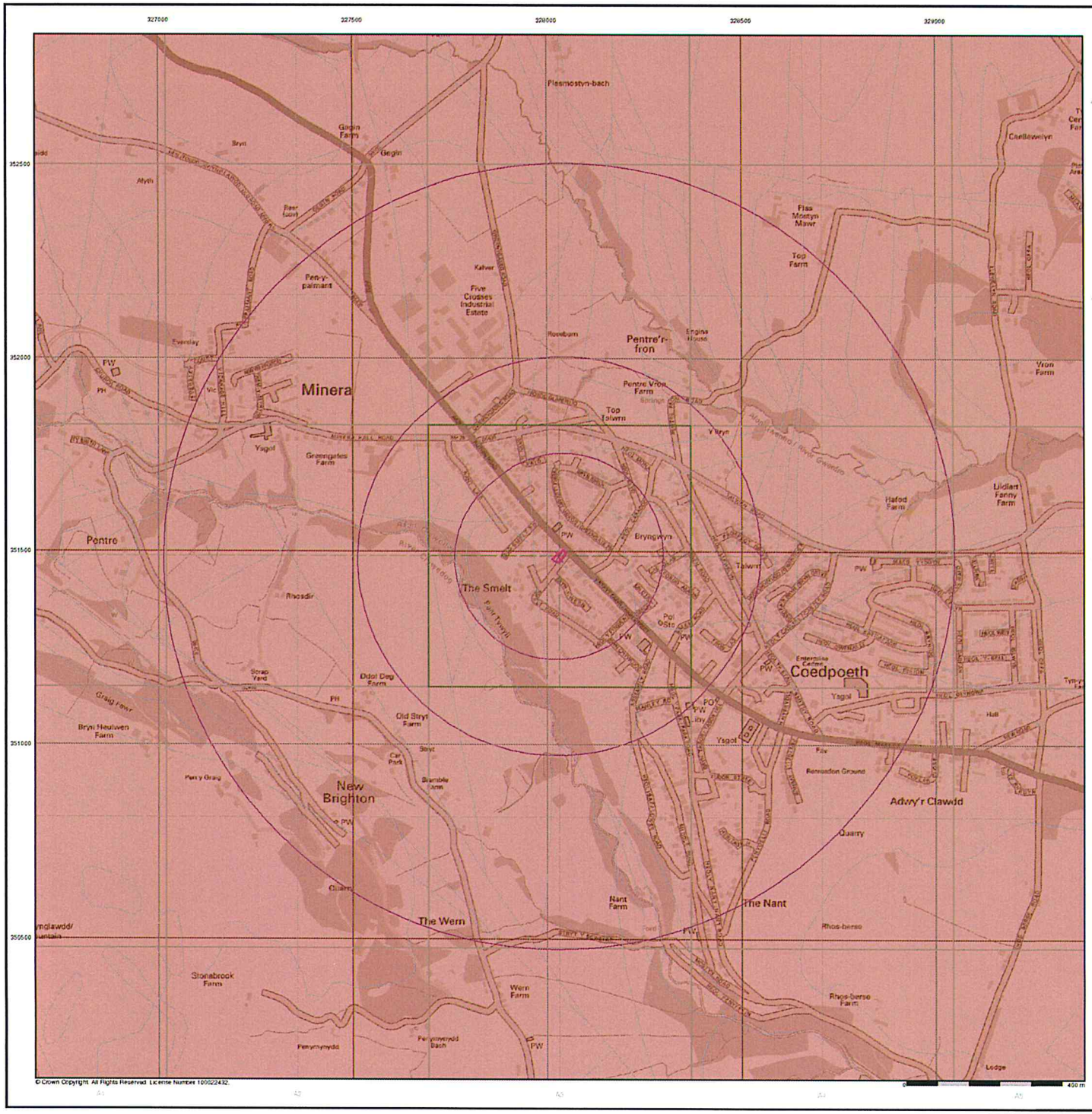
Order Details

Order Details:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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Web: www.envirocheck.co.uk



Envirocheck®

General

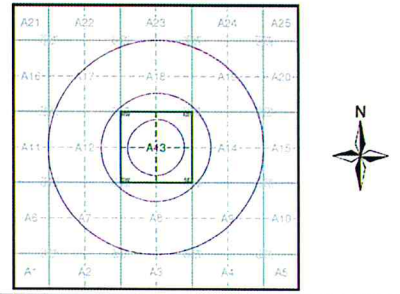
Specified Site Specified Buffer(s) X Bearing Reference Point

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



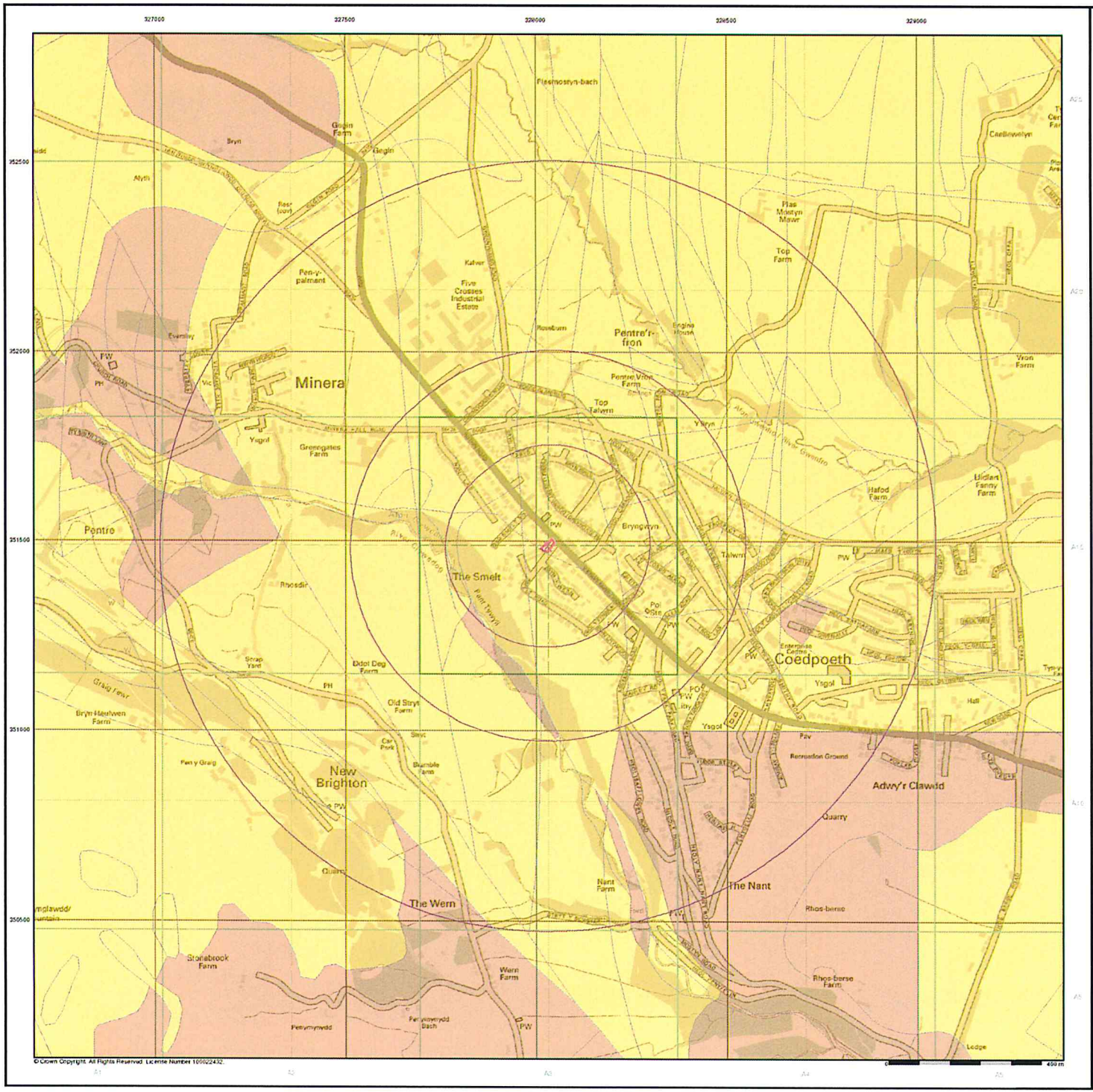
Order Details

Order Details:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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Envirocheck®

General

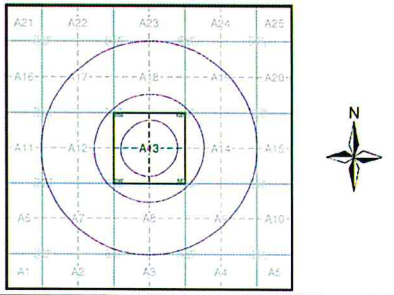
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

Estimated Soil Chemistry Lead - Slice A



Order Details

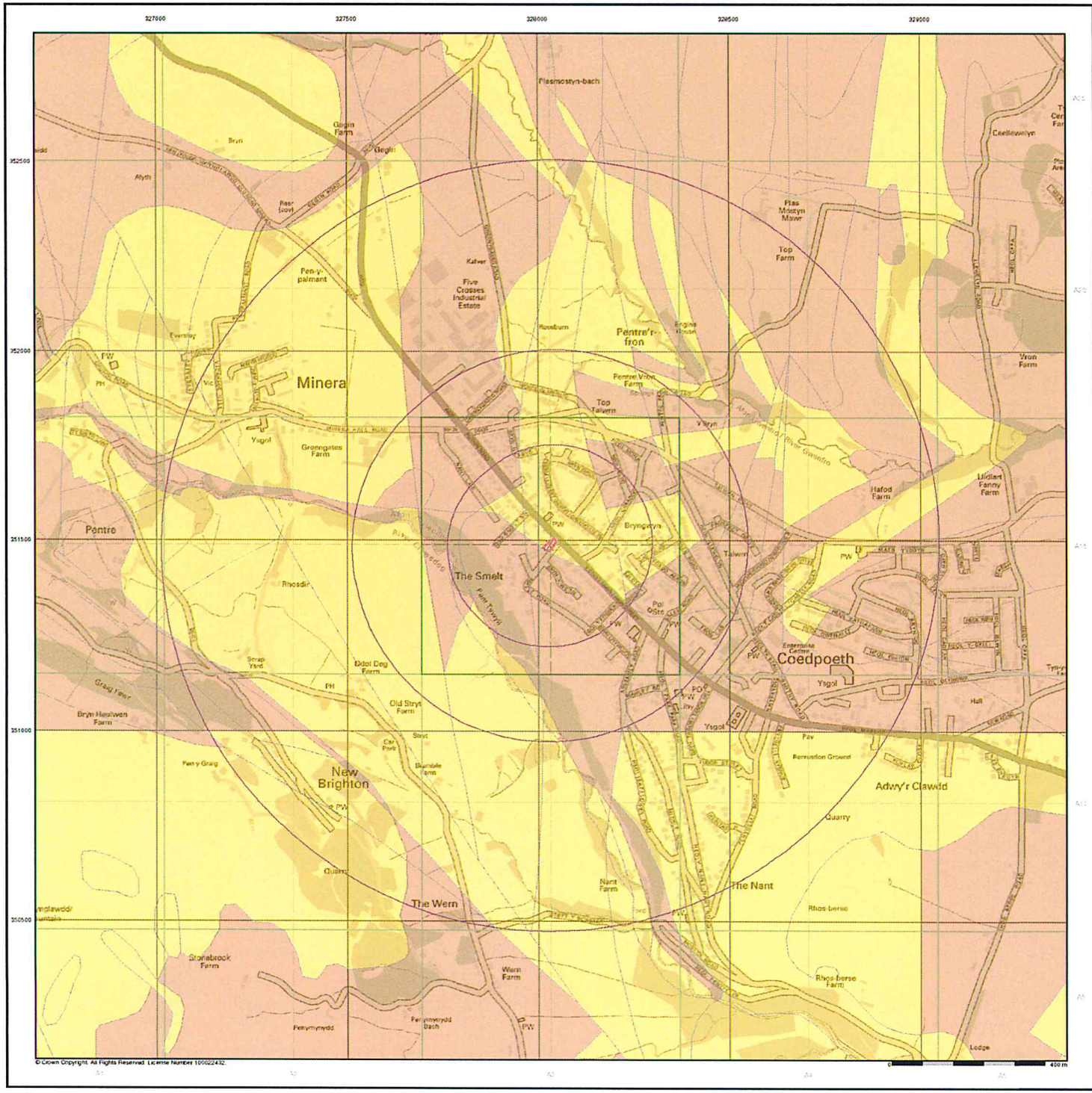
Order Details:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

Landmark Information Group

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



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General

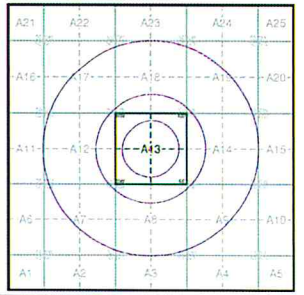
Specified Site | Specified Buffer(s) | Bearing Reference Point

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

Order Details:	62380767_1_1
Customer Ref:	1649/mjs/001
National Grid Reference:	328030, 351490
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Site at 328000, 351600

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

APPENDIX C

Trial Pit Logs

TRIAL PIT 1

Depth (m)	Strata
0.00 – 0.50	Brown slightly clayey gravelly SILT (TOPSOIL)
0.50 – 0.60	Yellow brown mottled brown clayey SILT with a little gravel (GLACIAL TILL)

Notes

Samples Taken 0.00 – 0.50 and 0.50



Trial Pit 1



Spoil from trial pit 1 - Topsoil



Glacial till

TRIAL PIT 2

Depth (m)	Strata
0.00 – 0.30	Brown slightly clayey gravelly SILT (TOPSOIL)
0.30 – 0.55	Brown slightly silty sandy fine to coarse GRAVEL with a trace of lime (MADE GROUND)
0.55 – 0.60	Yellow brown mottled brown clayey SILT with a little gravel (GLACIAL TILL)

Notes
Sample taken 0.00 – 0.30m



Trial Pit 2



Spoil trial pit 2

APPENDIX D

Chemical Test Results

ALcontrol Laboratories

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: mkt@alcontrol.com
Website: www.alcontrol.com

Ground Solve
Unit 7
Well House Barns
Chester Road
Bretton
Cheshire
CH4 0DH

Attention: Mike Scott

CERTIFICATE OF ANALYSIS

Date:	15 December 2014
Customer:	H_GRSOLVE_BRE
Sample Delivery Group (SDG):	141202-93
Your Reference:	1649/mjs
Location:	Smelt Road, Coedporth, Wrexham
Report No:	295628

We received 3 samples on Tuesday December 02, 2014 and 3 of these samples were scheduled for analysis which was completed on Monday December 15, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:

Sonia McWhan
Operations Manager

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10488370	TP1		0.00 - 0.50	
10488371	TP1		0.50	
10488372	TP2		0.00 - 0.30	

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			10488370	10488371	10488372
Customer Sample Reference			TP1	TP1	TP2
AGS Reference					
Depth (m)			0.00 - 0.50	0.50	0.00 - 0.30
Container			250g Amber Jar (AL	60g VOC (ALE215) 250g Amber Jar (AL	60g VOC (ALE215) 250g Amber Jar (AL 60g VOC (ALE215)
Anions by Kone (soil)	All	NDPs: 0 Tests: 3	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 3	X	X	X
Chromium III	All	NDPs: 0 Tests: 3	X	X	X
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 3	X	X	X
Easily Liberated Sulphide	All	NDPs: 0 Tests: 3	X	X	X
Elemental Sulphur	All	NDPs: 0 Tests: 3	X	X	X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 3	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 3	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 3		X	X X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 3	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 3	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 3	X	X	X
pH	All	NDPs: 0 Tests: 3	X	X	X
Phenols by HPLC (S)	All	NDPs: 0 Tests: 3	X	X	X
Sample description	All	NDPs: 0 Tests: 3	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			10488370	TP1		0.00 - 0.50	250g Amber Jar (AL), 60g VOC (ALE215)
			10488371	TP1		0.50	250g Amber Jar (AL), 60g VOC (ALE215)
			10488372	TP2		0.00 - 0.30	250g Amber Jar (AL), 60g VOC (ALE215)
Total Organic Carbon	All	NDPs: 0 Tests: 3	X		X		X
TPH CWG GC (S)	All	NDPs: 0 Tests: 3	X		X		X

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
10488370	TP1	0.00 - 0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
10488371	TP1	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10488372	TP2	0.00 - 0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TP1	TP1	TP2			
			Depth (m)	0.00 - 0.50	0.50	0.00 - 0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	-	-	-			
			Sample Time	.	.	.			
			Date Received	02/12/2014	02/12/2014	02/12/2014			
			SDG Ref	141202-93	141202-93	141202-93			
			Lab Sample No.(s)	10488370	10488371	10488372			
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		18 §	13 §	16 §			
Phenol	<0.01 mg/kg	TM062 (S)		<0.01 § M	<0.01 § M	<0.01 § M			
Cresols	<0.01 mg/kg	TM062 (S)		<0.01 § M	<0.01 § M	<0.01 § M			
Xylenols	<0.015 mg/kg	TM062 (S)		<0.015 § M	<0.015 § M	<0.015 § M			
2,3,5-Trimethylphenol	<0.01 mg/kg	TM062 (S)		<0.01 § M	<0.01 § M	<0.01 § M			
2-Isopropylphenol	<0.015 mg/kg	TM062 (S)		<0.015 § M	<0.015 § M	<0.015 § M			
Phenols, Total Detected 5 speciated	<0.06 mg/kg	TM062 (S)		<0.06 § M	<0.06 § M	<0.06 § M			
Soil Organic Matter (SOM)	<0.35 %	TM132		8.81 § #	2.07 § #	12.7 § #			
pH	1 pH Units	TM133		7.93 § M	8.45 § M	7.6 § M			
Sulphur, Elemental	<10 mg/kg	TM136		188 § M	<10 § M	44.7 § M			
Chromium, Hexavalent	<0.6 mg/kg	TM151		1.32 § #	<0.6 § #	<3 § #			
Cyanide, Total	<1 mg/kg	TM153		<1 § M	<1 § M	1.14 § M			
Sulphide, Easily liberated	<15 mg/kg	TM180		<15 § #	<15 § #	<15 § #			
Chromium, Trivalent	<0.9 mg/kg	TM181		14.8 §	17.2 §	17.1 §			
Arsenic	<0.6 mg/kg	TM181		18.4 § M	12.2 § M	19.3 § M			
Boron	<0.7 mg/kg	TM181		6.36 § #	2.91 § #	4.32 § #			
Cadmium	<0.02 mg/kg	TM181		7.85 § M	1.92 § M	5.28 § M			
Chromium	<0.9 mg/kg	TM181		16.1 § M	17.2 § M	17.1 § M			
Copper	<1.4 mg/kg	TM181		73.6 § M	21.3 § M	58.3 § M			
Lead	<0.7 mg/kg	TM181		1260 § M	446 § M	1150 § M			
Mercury	<0.14 mg/kg	TM181		0.502 § M	<0.14 § M	0.517 § M			
Nickel	<0.2 mg/kg	TM181		19.5 § M	23.5 § M	24.7 § M			
Selenium	<1 mg/kg	TM181		1.33 § #	<1 § #	<1 § #			
Zinc	<1.9 mg/kg	TM181		1650 § M	343 § M	1300 § M			
Water Soluble Sulphate as SO4 2:1 Extract	<0.004 g/l	TM243		<0.004 § M	<0.004 § M	0.0225 § M			

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TP1	TP1	TP2			
			Depth (m)	0.00 - 0.50	0.50	0.00 - 0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	-	-	-			
			Sample Time	.	.	.			
			Date Received	02/12/2014	02/12/2014	02/12/2014			
			SDG Ref	141202-93	141202-93	141202-93			
			Lab Sample No.(s)	10488370	10488371	10488372			
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		91.9 §	93.2 §	99 §			
Acenaphthene-d10 % recovery**	%	TM218		91.7 §	93.1 §	98.8 §			
Phenanthrene-d10 % recovery**	%	TM218		93.5 §	93.3 §	99.4 §			
Chrysene-d12 % recovery**	%	TM218		97.1 §	91 §	102 §			
Perylene-d12 % recovery**	%	TM218		97.2 §	91.1 §	103 §			
Naphthalene	<9 µg/kg	TM218		218 § M	33.7 § M	323 § M			
Acenaphthylene	<12 µg/kg	TM218		1690 § M	40.8 § M	512 § M			
Acenaphthene	<8 µg/kg	TM218		161 § M	<8 § M	119 § M			
Fluorene	<10 µg/kg	TM218		336 § M	<10 § M	143 § M			
Phenanthrene	<15 µg/kg	TM218		8860 § M	237 § M	3140 § M			
Anthracene	<16 µg/kg	TM218		2830 § M	50.3 § M	1090 § M			
Fluoranthene	<17 µg/kg	TM218		24700 § M	407 § M	11900 § M			
Pyrene	<15 µg/kg	TM218		20600 § M	361 § M	10500 § M			
Benz(a)anthracene	<14 µg/kg	TM218		12500 § M	226 § M	7800 § M			
Chrysene	<10 µg/kg	TM218		11600 § M	224 § M	7410 § M			
Benzo(b)fluoranthene	<15 µg/kg	TM218		13500 § M	261 § M	9000 § M			
Benzo(k)fluoranthene	<14 µg/kg	TM218		5790 § M	105 § M	3680 § M			
Benzo(a)pyrene	<15 µg/kg	TM218		13200 § M	227 § M	8460 § M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		7130 § M	132 § M	4370 § M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		1770 § M	35.5 § M	1200 § M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218		8090 § M	203 § M	4890 § M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		133000 §	2540 §	74600 §			

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	TP1	TP1	TP2			
			Depth (m)	0.00 - 0.50	0.50	0.00 - 0.30			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	-	-	-			
			Sample Time	.	.	.			
			Date Received	02/12/2014	02/12/2014	02/12/2014			
			SDG Ref	141202-93	141202-93	141202-93			
			Lab Sample No.(s)	10488370	10488371	10488372			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		88 §	79 §	97 §			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<44 § M	<44 § M	<44 § M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 § M	<5 § M	<5 § M			
Benzene	<10 µg/kg	TM089		<10 § M	<10 § M	<10 § M			
Toluene	<2 µg/kg	TM089		<2 § M	<2 § M	<2 § M			
Ethylbenzene	<3 µg/kg	TM089		<3 § M	<3 § M	<3 § M			
m,p-Xylene	<6 µg/kg	TM089		<6 § M	<6 § M	<6 § M			
o-Xylene	<3 µg/kg	TM089		<3 § M	<3 § M	<3 § M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 §	<9 §	<9 §			
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 §	<24 §	<24 §			
Aliphatics >C5-C6	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aliphatics >C6-C8	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aliphatics >C8-C10	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aliphatics >C10-C12	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aliphatics >C12-C16	<100 µg/kg	TM173		4240 §	1820 §	5510 §			
Aliphatics >C16-C21	<100 µg/kg	TM173		3600 §	1980 §	7490 §			
Aliphatics >C21-C35	<100 µg/kg	TM173		28400 §	3150 §	27400 §			
Aliphatics >C35-C44	<100 µg/kg	TM173		5250 §	<100 §	3950 §			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		41400 §	6950 §	44300 §			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10 §	<10 §	<10 §			
Aromatics >EC12-EC16	<100 µg/kg	TM173		6830 §	3350 §	8780 §			
Aromatics >EC16-EC21	<100 µg/kg	TM173		66600 §	8160 §	55600 §			
Aromatics >EC21-EC35	<100 µg/kg	TM173		265000 §	18600 §	210000 §			
Aromatics >EC35-EC44	<100 µg/kg	TM173		53200 §	1830 §	39200 §			
Aromatics >EC40-EC44	<100 µg/kg	TM173		15000 §	380 §	12900 §			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		392000 §	32000 §	313000 §			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		434000 §	38900 §	358000 §			

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP1 0.00 - 0.50 SOLID 03/12/2014 12:47:35 141202-93 10488370 TM048	12/12/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP1 0.50 SOLID 03/12/2014 11:41:43 141202-93 10488371 TM048	12/12/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP2 0.00 - 0.30 SOLID 03/12/2014 11:14:15 141202-93 10488372 TM048	12/12/14	Kevin Hughes	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM136	Method 17.10, Second Site property, March 2003	Determination of Sulphur by HPLC		
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser		
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM180	Sulphide in waters and waste waters 1991 ISBN 01 175 7186 SCA rec. 2007 (unpublished)'	The Determination Of Easily Liberated Sulphide In Soil Samples by Ion Selective Electrode Technique		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM243		Mixed Anions In Soils By Kone		

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

CERTIFICATE OF ANALYSIS

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10488370	10488371	10488372
Customer Sample Ref.	TP1	TP1	TP2
AGS Ref.			
Depth	0.00 - 0.50	0.50	0.00 - 0.30
Type	SOLID	SOLID	SOLID
Anions by Kone (soil)	10-Dec-2014	10-Dec-2014	10-Dec-2014
Asbestos ID in Solid Samples	15-Dec-2014	15-Dec-2014	15-Dec-2014
Chromium III	10-Dec-2014	09-Dec-2014	10-Dec-2014
Cyanide Comp/Free/Total/Thiocyanate	10-Dec-2014	10-Dec-2014	10-Dec-2014
Easily Liberated Sulphide	08-Dec-2014	08-Dec-2014	08-Dec-2014
Elemental Sulphur	10-Dec-2014	10-Dec-2014	10-Dec-2014
EPH CWG (Aliphatic) GC (S)	09-Dec-2014	09-Dec-2014	09-Dec-2014
EPH CWG (Aromatic) GC (S)	09-Dec-2014	09-Dec-2014	09-Dec-2014
GRO by GC-FID (S)	10-Dec-2014	10-Dec-2014	10-Dec-2014
Hexavalent Chromium (s)	10-Dec-2014	09-Dec-2014	10-Dec-2014
Metals in solid samples by OES	10-Dec-2014	08-Dec-2014	10-Dec-2014
PAH by GCMS	10-Dec-2014	10-Dec-2014	10-Dec-2014
pH	09-Dec-2014	09-Dec-2014	09-Dec-2014
Phenols by HPLC (S)	09-Dec-2014	09-Dec-2014	09-Dec-2014
Sample description	03-Dec-2014	03-Dec-2014	03-Dec-2014
Total Organic Carbon	05-Dec-2014	05-Dec-2014	05-Dec-2014
TPH CWG GC (S)	10-Dec-2014	10-Dec-2014	10-Dec-2014

SDG:	141202-93	**Location:**	Smelt Road, Coedporth, Wrexham	**Order Number:**	1649/mjs
Job:	H_GRSOLVE_BRE-127	**Customer:**	Ground Solve	**Report Number:**	295628
Client Reference:	1649/mjs	**Attention:**	Mike Scott	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before presevation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than:
- Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

APPENDIX E

Radon Report

Public Health England

Report of address search for radon risk

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Radon Risk Report for addresses in England and Wales

Issued by Public Health England and the British Geological Survey using Address-Point® and Royal Mail PAF®.

Address searched: 73 High Street, Coedpoeth, Wrexham, LL11 3UG

Grid reference searched:

328008 East

351497 North

Date of report: 22 December 2014

Guidance for existing properties

Is this property in a radon Affected Area? - Yes

The answer to the standard enquiry on house purchase known as CON29 Standard Enquiry of Local Authority; 3.13 Radon Gas: Location of the Property in a Radon Affected Area is:

Yes, this property is in a Radon Affected Area as defined by Public Health England.

The estimated probability of the property being above the Action Level for radon is: 1-3%

The result may not be valid for buildings larger than 25 metres.

This report informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property; the only way to find out whether it is above or below the Action Level is to carry out a radon measurement in an existing property.

Radon Affected Areas are designated by the Public Health England. PHE advises that radon gas should be measured in all properties within Radon Affected Areas.

If you are buying a currently occupied property in a Radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and the results of re-testing confirmed the effectiveness of the measures.

Further information is available from PHE or http://www.ukradon.org

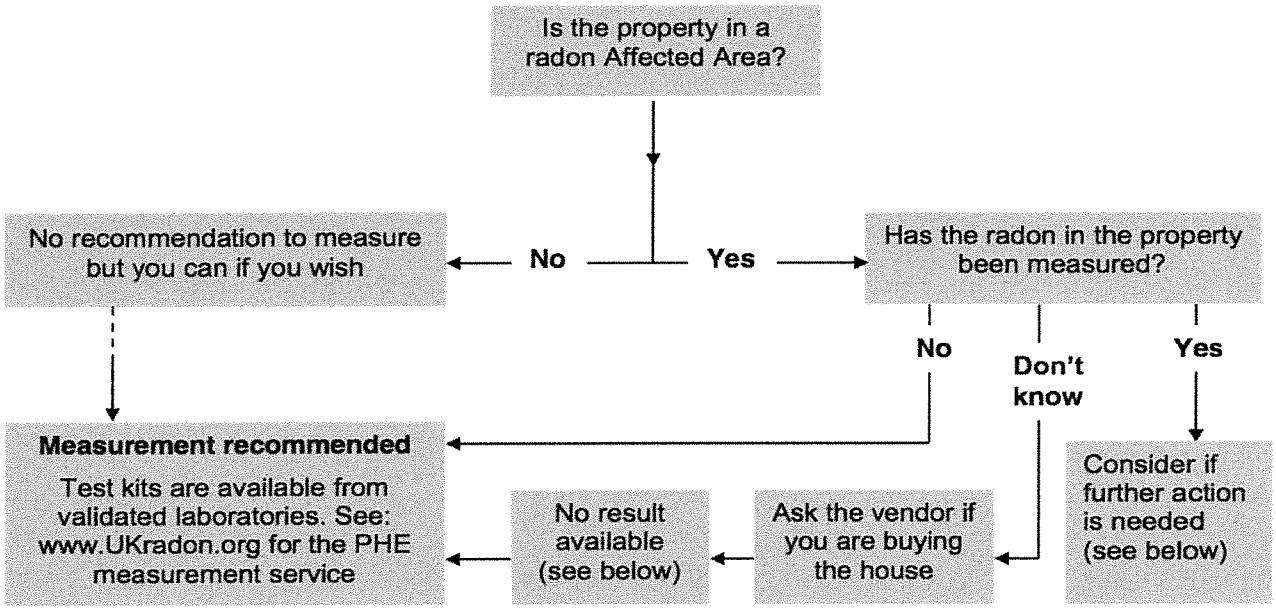
Guidance for new buildings and extensions to existing properties

What is the requirement under Building Regulations for radon protection in new buildings and extensions at the property location? - None

If you are buying a new property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

See the Radon and Building Regulations for more details.

PHE guidance for occupiers and prospective purchases



Existing radon test results: There is no public record of individual radon measurements. Results of previous tests can only be obtained from the seller. Radon levels can be significantly affected by changes to the building or its use, particularly by alterations to the heating and ventilation which can also be affected by changes in occupier. If in doubt, test again for reassurance.

Radon Bond: This is simply a retained fund, the terms of which are negotiated between the purchaser and the vendor. It allows the conveyance of the property to proceed without undue delay. The purchaser is protected against the possible cost of radon reduction work and the seller does not lose sale proceeds if the result is low. Make sure the agreement allows enough time to complete the test, get the result and arrange the work if needed.

High Results: Exposure to high levels of radon increases the risk of developing lung cancer. If a test in a home gives a result at or above the Action Level of 200 Becquerels per cubic metre of air (Bq/m3), formal advice will be given to lower the level. Radon reduction will also be recommended if the occupants include smokers or ex-smokers when the radon level is at or above the Target Level of 100 Bq/m3; these groups have a higher risk. Information on health risks and radon reduction work is available from PHE. Guidance about radon reduction work is also available from some Local Authorities, the Building Research Establishment and specialist contractors.

PHE designated radon website: http://www.ukradon.org
Building Research Establishment: http://www.bre.co.uk/radon/reduce.html

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