

Brothers Industries, Wrexham

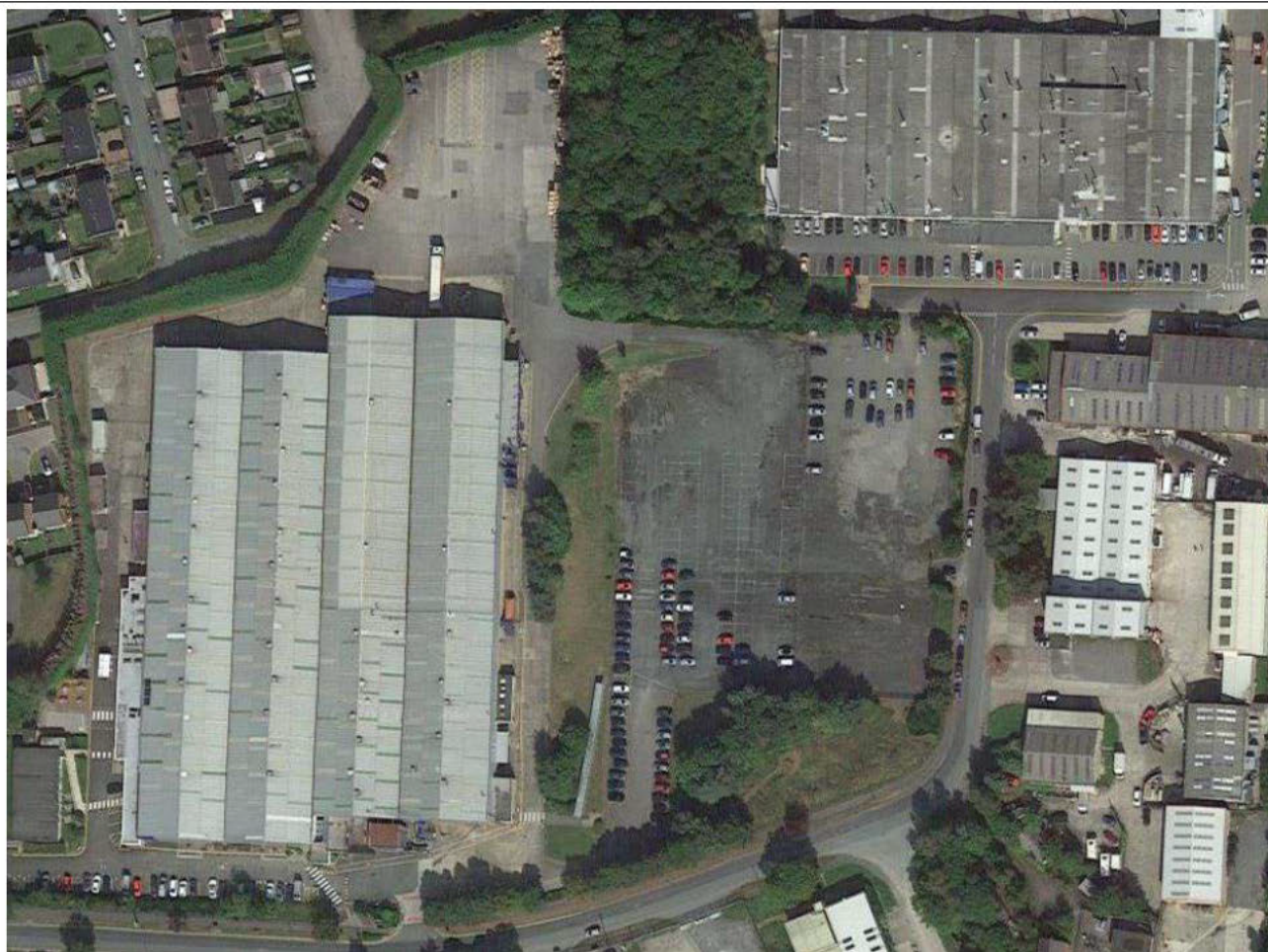
SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Tel: 01296 739400 Email: consultants@subadra.com

ENVIRONMENTAL INVESTIGATION REPORT



Report Prepared By:

Report Reviewed By:

Alex Akeroyd

Steven Partridge

Client: Portable Venues (Group)
Limited (Smart Space)

Subadra Consulting Ltd. Registered in
England No. 4586038
Registered Office 13 Triangle Business
Park, Stoke Mandeville, HP22 5BL

Report	IN23886 CL 001
Date	July 2023
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Environmental Investigation – Summary			
Sitework Completed			
Underground service drawing completed	N/A	No of boreholes constructed/ maximum depth drilled	Four boreholes / 4.0m
Date investigation completed	13 ^h June 2023	Number of monitoring wells/ maximum depth installed	Two wells / 3.5m
Date of groundwater monitoring visit	13 ^h June 2023	Monitoring for hazardous ground gas completed	13 th June 2023 (end of day)
Site Sensitivity (from Investigation)			
Geology and Hydrogeology	Glaciofluvial Deposits		Secondary Aquifer (Class A)
	Till, Diamicton		Secondary (Undifferentiated)
Source Protection Zone	No	Nearest Surface Water	Land drain 183m east
Encountered Hydrogeology/Geology			
Geological Unit	Depth of Layer (m)	Description	
Made Ground	1.3	Asphalt overlying brown and grey gravelly sandy CLAY with pockets of sand. Includes rare red brick fragments.	
Glaciofluvial Deposits	2.4	MEDIUM DENSE brown occasionally yellow brown clayey SAND. Frequent fine to coarse gravel.	
Till	>4.0	STIFF grey brown very sandy CLAY. Occasional fine to coarse gravel. Present as very clayey sand in BH001.	
Groundwater	Strikes were noted within or near the base of the Glaciofluvial Deposits. At-rest groundwater levels ranged from 0.8m - 1.1m below ground level.		
Environmental Assessment – Summary of Conclusions:			
Our historical review indicates the site has likely formed part of yard/area of hardstanding since the 1980s. No buildings have ever been shown on available maps. The results of the chemical analysis carried out on selected soil samples, confirms the presence of trace PAH concentrations in shallow soil. No detectable BTEX or TPH compounds were recorded. Metals were identified at background levels and no asbestos fibres were detected in the samples we screened. No detectable BTEX or TPH compounds were recorded in the groundwater sample we analysed. Our ground-gas screening indicates there are no significant risks posed to future site workers, and the site could be classified as CS1 (very low risk). We consider that no ground-gas protective measures are required for the proposed warehouse. In conclusion, we have not identified any viable pollutant linkages associated with the site. We do not consider further investigation, risk assessment and/or remedial works are required at this time. Therefore, the site is considered suitable for the proposed storage/distribution facility.			
Your attention is drawn to the Notice to Interested Parties included as Attachment One			

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Attachment One:	Notice to Interested Parties
Attachment Two:	Environmental Data Report and Historical Maps
Attachment Three:	Borehole Logs
Attachment Four:	Chemical Analysis Certificates
Attachment Five:	Public Utility Drawings

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1 Introduction

1.1 The Purpose of This Assessment

The site is located within Brothers Industries yard at Vauxhall Industrial Estate, Ruabon and comprises unused asphalt paved yard space. We understand that Brothers Industries (UK) Ltd proposes to redevelop the site with a portal framed storage/distribution facility.

We have been commissioned by Portable Venues (Group) Limited, on behalf of Brothers Industries (UK) Ltd, to carry out an environmental investigation of the site. Our investigation is intended to discharge the contaminated land conditions imposed by Wrexham County Borough Council (planning application P/2022/0979).

The purpose of our investigation is to allow us to assess the quality of soil and/or groundwater underlying the site to determine whether any contaminants present might pose an unacceptable (long-term) risk to future site residents and/or any nearby environmental receptors.

Our environmental assessment was undertaken in accordance with the guidelines presented in the Environment Agency (2020) 'Land contamination risk management (LCRM)' documents and Environment Agency (2010) Guiding principles for land contamination (GPLC).

Your attention is drawn to the Notice to Interested Parties included as Attachment One.

1.2 The Scope of This Assessment

Our assessment of the site was carried out in the following parts:

- Desk study comprising a review of information that is readily available in the public domain;
- Collection of public utility drawings for the sites locality to assist with locating public utilities that may be present;
- A walkover survey to identify visual signs of pollution or potentially polluting activities;
- An intrusive site investigation comprising four boreholes drilled using our Terrier drilling rig;
- Logging of soil cores and the collection of soil samples;
- Groundwater level monitoring and the collection of a groundwater grab-sample from the monitoring well/s we installed at the site;
- As part of our monitoring, we also screened for hazardous ground gases and volatile organic compounds;
- Chemical analysis of representative soil and groundwater samples;
- Revision of the conceptual site model and, if applicable, completion of a Generic Quantitative Risk Assessment, in order to assess whether the site is considered suitable for use;
- Provision of this report, which details the results of our assessment and conclusions, and makes recommendations for further works (if necessary).

All the activities comprising this assessment were carried out in accordance with the procedures set out in our Quality Manual.

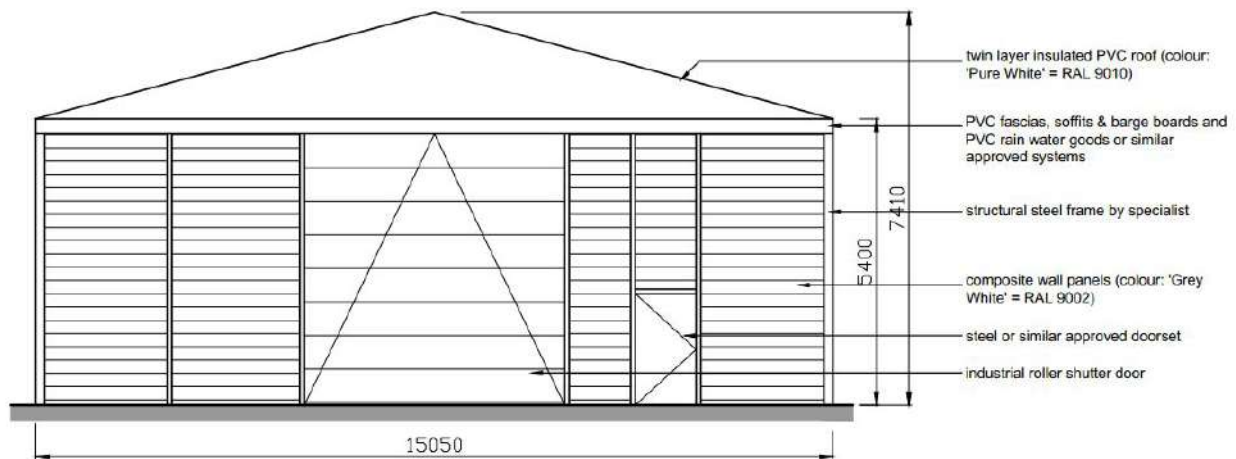
1.3 Previous Reports Relating to the Site

We do not hold, and have not been provided with any, previous reports relating to the site.

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1.4 Proposed Development Plans

Proposed Developments	We understand that Brothers Industries (UK) Ltd proposes to erect a 25m x 15m x 7.5m portal framed storage/distribution facility. We understand that no below ground excavations are to be formed, and the structure will be bolted onto the existing asphalt surfacing. A site plan showing the proposed development plan is provided below.
Active Planning Applications	Planning application reference P/2022/0979 has been granted by Wrexham County Borough Council, subject to the conditions summarised below: Condition 4: Requires the completion of a phased site investigation Condition 5: Requires the completion of a validation report with respect to any remediation works carried out (if any).
Notes	We understand that this report is to be submitted in support of a planning application for the site's redevelopment, as detailed above. Our assessment has been compiled to directly satisfy contaminated land conditions listed above.



FRONT ELEVATION

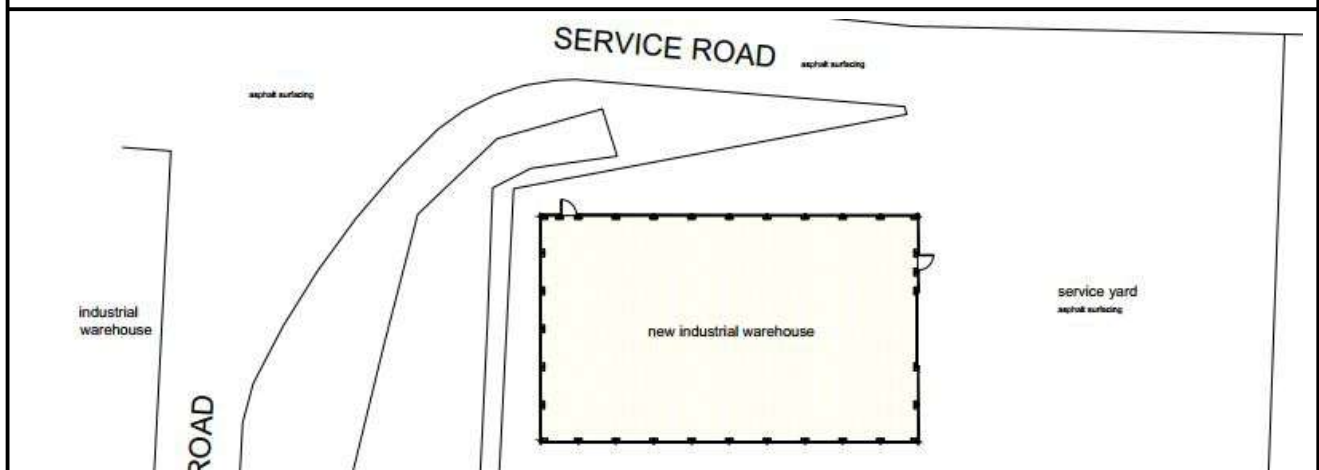


Table One: Proposed Development Plans

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2 Desk Study Information

2.1 Site Description, Location and Setting

Site Description	The site is currently an area of unused asphalt hardstanding (labelled as a service yard) within the Brothers Industries plot. Parking spaces are located to the immediate south, with the associated manufacturing warehouse ~25m to the west. The site is flat with no obvious slope. A more detailed site description is included in Section 3.		
Grid Reference	330433 345300	Location	Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA A site location plan is provided as Figure One below
Elevation	~115 m AOD		
Size	~375m ²		

Table Two: Site Location and Setting



Figure One: Site Location Map

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Figure Two: Aerial Photograph Showing Site and Surrounding Area

Direction	Details
North	Service road followed by industrial and residential property.
East	Parking with light industrial property beyond.
South	Parking followed by various commercial units beyond.
West	Brothers Industries building (~25m).

Table Three: Surrounding Land Use

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2.2 Geology, Hydrogeology and Hydrology

	Geological Unit	Description	Estimated Thickness	Data Source
Drift Geology	<i>Glaciofluvial Deposits (shown near eastern boundary)</i>	<i>Sand and gravel</i>	<20m	British Geological Survey (BGS)
	Till, Diamicton (shown on-site)	Generally gravelly sandy clay	~10m	
Solid Geology	Etruria Formation	Mudstone with rare coal seams	>50m	
Existing Investigation Data	The BGS hold records for a borehole constructed ~150m south of the site (BGS ref. SJ34NW576). This records underlying geology to comprise Made Ground to 0.3m, sand with bands of gravel (Glaciofluvial Deposits) up to 18m, followed by clay and marls to borehole termination at 121m (Etruria Formation).			

Table Four: Regional Geology

	Geological Unit	Aquifer Classification	Groundwater Vulnerability	Data Source
Drift Geology	<i>Glaciofluvial Deposits (if present)</i>	<i>Secondary Aquifer (Class A)</i>	High Vulnerability (Combined Classification)	Natural Resources Wales
	Till, Diamicton	Secondary (Undifferentiated)		
Solid Geology	Etruria Formation	Secondary Aquifer (Class A)		
Existing Investigation Data	The BGS borehole referenced above recorded a groundwater at-rest level of 10m within the Glaciofluvial Deposits.			BGS

Table Five: Regional Hydrogeology

	Description	Distance	Direction	Data Source
Surface Water Features	Unnamed land drain	~180m	East	Ordnance Survey
	Afon Goch	~250m	South west	

Table Six: Regional Hydrology

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Abstraction	Surface Water			Groundwater		
	Distance	Direction	Purpose	Distance	Direction	Purpose
Nearest	None recorded within 1km			None recorded within 1km		
Nearest Public Water Supply	681m	South east	Effluent/slurry			
Source Protection Zone	The site does not lie within a designated Source Protection Zone					

Data sourced from Natural Resources Wales.

Table Seven: Nearest Surface and Groundwater Abstractions

2.3 Site History

2.3.1 Review of Historical Ordnance Survey Maps

Date	Review of Map – Description of Land Use at Site and in the Immediate Surrounding Area	Potentially Contaminative Land-use	
		On-site	Off-site
1874	The site is shown undeveloped. A stream is marked ~25m south. A sand pit is indicated ~120m east with a railway beyond. Vauxhall Colliery is labelled >110m to the south-east. Moreton pit (coal) is shown ~200m to the west, with a railway and other buildings also marked. There is a railway also located 150m to the east.	None identified	Pits, colliery and rail land.
1899-1900 / 1912	Site remains undeveloped. Vauxhall Colliery remains with Moreton Pit marked as disused. A rail siding to the Colliery is located 100m to the south east. The stream to the south is no longer shown.		Colliery and rail land.
1961	Site still shown undeveloped. Residential development is shown to the north and west. Works with tanks are shown ~200m west. Vauxhall Colliery now a depot with large areas of spoil (heaps) marked. There is a pond located 170m to the west.		Works, depot and rail land.
1974	Site remains undeveloped. Various works and factories are shown in the immediate surrounding area (<100m) including a plastic products and storage radiator factories. The pond to the west is no longer present.		Various works and factories and rail land
1989 & 1992	Site shown similar to the present day, forming part of a yard area.		

Copies of representative historical maps are included as Attachment Two

Table Eight: Historical Maps Review

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2.3.2 Review of Online Planning Records

Date	Application Number	Local Planning Authority – Planning Records (from local planning authority website)	Evidence of Development
17/11/2022	P/2022/0979	Erection of storage and distribution warehouse (class b8)	No - Granted with conditions (current application)

Table Nine: Summary of Online Planning Records

2.3.3 Review of Permits and Regulatory Actions

Date	Permit ref.	Details	Issuing Authority
N/A	41	75m NE: PG6/45 Surface Cleaning	Wrexham County Borough Council
N/A	WCBC-PG1-1-1-GHA	230m NE: PG1/1Waste oil burners, less than 0.4MW net rated thermal input	

Table Ten: Current or Past Permits or Licences (within 250m)

Date	Details	Data Source
May 1995	Location: Aberderfyn / 230m South west Vandalism - Mining Water - Runoff Category 3 - Minor Incident	Environment Agency, Welsh Region

Table Eleven: Pollution Incidents to Controlled Waters

2.4 Additional Information

Flood Risk Zone	Flood Risk	Data Source
Very Low Risk	The site lies within a very low risk area with respect to flooding. On this basis, a flood risk assessment is not likely to be required as part of future planning applications.	Natural Resources Wales

Table Twelve: Preliminary Flood Risk Assessment

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Risk	Description	Data Source
Radon Risk	The site is located in an area where the National Radiological Protection Board have determined that <1% houses exceed the recommended Action Level for radon for existing homes in the UK of 200Bqm ⁻³ (averaged over a year). No radon protective measures are necessary in the construction of new buildings.	BGS & NGIS
Nearest Landfill	The Environment Agency records show that there is one historical landfill site, called Hafod Quarry, located on Bangor Road, Johnstown, Wrexham at 180m east from the site. Under licensed facilities (inactive), the site category was marked as a co-disposal landfill site with a large input rate.	NRW
Degradable material within Made Ground	Made Ground is present beneath the site. However, significant quantities of Made Ground were not recorded.	Borehole Logs
Peat and organic matter within Alluvial deposits	No source identified, site underlain by glacial associated drift deposits.	BGS
Degradation of spilled or leaked petroleum hydrocarbons	No significant source identified.	Historical Maps
Bedrock Geology	Etruria Formation generally comprises mudstone with rare coal seams. This could be considered as a potential source of ground-gas. Although, vertical migration will be impeded by clayey Till present beneath the site.	BGS
Organic rich silt formed in water bodies	A stream was marked ~25m south in historical maps (not present from ~1910s). Maps also show the presence of a land drain 183m east and Afon Goch ~200m south-west of site. Overall, we consider the risks associated with these are considered very low.	Ordnance Survey Maps
Conclusions	We have identified potential sources (landfill/bedrock) of hazardous ground gases associated with the site. We therefore, as a precautionary measure, completed screening for hazardous ground gases as part of this assessment.	

Table Thirteen: Hazardous Ground Gas Risk

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Risk	Description	Data Source
Risk of Coal Mining	The site is located in a Coal Mining Reporting Area. However, the site is not located in a defined Development High Risk Area. The nearest mine entry is located >200m to the west. <i>'The application site does not fall within the defined Development High Risk Area and is located instead within the defined Development Low Risk Area. This means that there is no requirement under the risk-based approach that has been agreed with the LPA for a Coal Mining Risk Assessment to be submitted or for The Coal Authority to be consulted.'</i>	Coal Authority Interactive Map & Response
Potential for Unexploded Ordnance	The site has been classified as being at 'low' risk of unexploded ordnance.	Zetica Ltd UXO Interactive Map

Table Fourteen: Mining and Unexploded Ordnance Risk

3 Site Walkover and Inspection

3.1 Summary of Site Walkover

The site is currently an area of unused asphalt hardstanding (labelled as a service yard) within the Brothers Industries plot. Parking spaces are located to the immediate south, with the associated manufacturing warehouse ~25m to the west. The proposed development site is flat with no obvious slope.

	
Photograph One - View of site facing west with associated warehouse in background	Photograph Two - View of site facing south with parking in background

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4 Intrusive Investigation Results

4.1 Details of Our Investigation

Activity		Description of Works
Service Clearance	Public Utility Drawings	We have obtained and reviewed public utility drawings from the relevant service provider. This provides information regarding major services that supply the site and neighbouring properties. Copies of these plans are included as Attachment Five.
	On-site	Prior to drilling all boreholes locations underwent a final service check using a Cable Avoidance Tool (CAT).
Drilling		Our site investigation was completed on 13th June 2023. We investigated the site by constructing four boreholes to a maximum depth of 4.0m using our Terrier drill rig. A site plan showing borehole locations is provided as Figure Three.
Monitoring Wells	Groundwater	Two of our boreholes (BH001 and BH002) were completed as groundwater/ground-gas monitoring wells.
	Gas	
Sampling Procedures	Soil	Representative soil samples were recovered from each borehole in sealed liners and logged on-site by a suitably qualified technician.
	Groundwater	We collected a groundwater (grab) sample on the day of our investigation from BH001 using a disposable bailer.
	Screening for Hazardous Ground Gases	During our site visit on 13 th June 2023 we carried out preliminary screening for hazardous ground gases using GA5000 series landfill gas monitor, designed to record concentrations of methane, carbon dioxide, carbon monoxide, hydrogen sulphide and oxygen (and flow readings).
	Hydrocarbon Vapours	During our site visit on 13 th June 2023 we also carried out preliminary (semi-quantitative) screening for hydrocarbon vapour concentrations using a photo-ionisation detector (PID) calibrated with isobutylene gas.
	Sample Preservation	Sub-samples were preserved in glass jars or bottles and stored in cool boxes during transportation to the laboratory for subsequent analysis.

Table Fifteen: Drilling and Sampling Methodologies

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4.2 Rationale for Borehole Location

We targeted the footprint of the proposed unit to assess for any potential risks posed to future site workers.

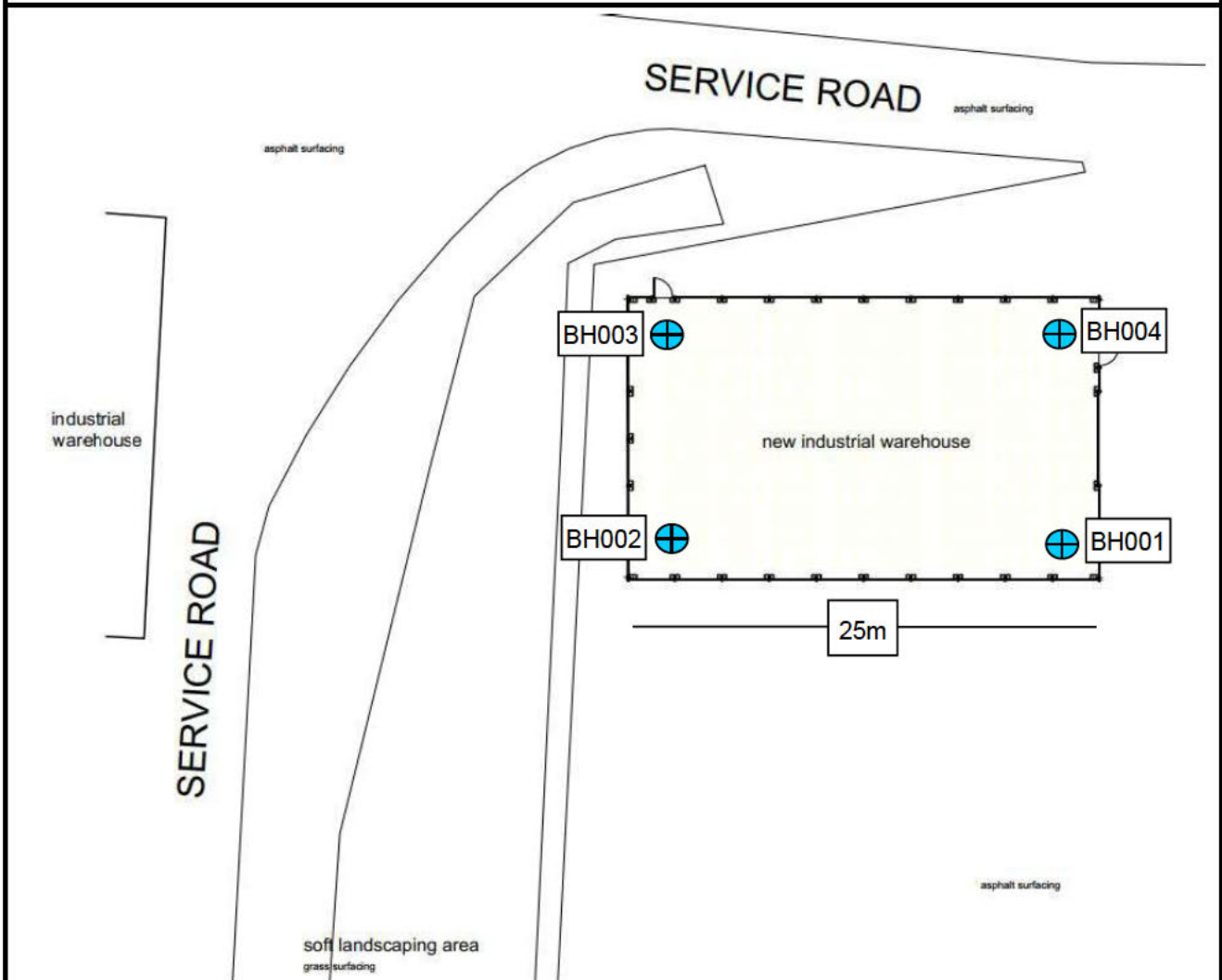


Figure Three: Borehole Locations

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4.3 Site Geology

	Unit	Description			
Layer I	Made Ground	Asphalt overlying brown and grey gravelly sandy CLAY with pockets of sand. Includes rare red brick fragments.			
Layer II	Glaciofluvial Deposits	MEDIUM DENSE brown occasionally yellow brown clayey SAND. Frequent fine to coarse gravel.			
Layer III	Till	STIFF grey brown very sandy CLAY. Occasional fine to coarse gravel. Present as very clayey sand in BH001.			
	Depth to Base of Layer				
	BH001	BH002	BH003	BH004	
Layer I	1.3m	0.9m	0.9m	0.8m	
Layer II	2.4m	1.9m	>2.0m*	2.0m	
Layer III	>4.0m	>3.2m*	-	>4.0m	

All dimensions in metres below ground level

*Terminated on hard natural ground

Table Sixteen: Soil Lithology

4.4 Visual and Olfactory Signs of Contamination

No visual or olfactory evidence of contamination was identified during our investigation.

4.5 Groundwater Monitoring Data

Groundwater monitoring data is summarised in the following table.

	BH001	BH002	BH003	BH004
Depth to Base of Well (m bgl)	3.5	3.0	No install	No install
Well Response Zone (m bgl)	0.5m - 3.5m	0.5m - 3.0m		
Groundwater Strike (m bgl)	~2.3m	~2.0m	~1.5m	~1.5m
Groundwater Rest Level (m bgl)	1.1m	0.8m	No install	No install
Indicative Permeability (observation)	Moderate	Moderate		

Note: m bgl denotes metres below ground level

Table Seventeen: Groundwater Monitoring Data

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4.6 Hazardous Ground Gases Assessment

4.6.1 Hazardous Ground Gases Monitoring Data

The result of our screening for hazardous ground gases are provided in the following table.

		BH001	BH002
VOC reading (ppm)	Peak	3	2
	Stable	3	2
CH ₄ (%)	Peak	0	0
	Stable	0	0
CO ₂ (%)	Peak	0.2	0.3
	Stable	0.2	0.3
O ₂ (%)	Min	20.6	19.7
	Stable	20.6	19.7
CO (ppm)	Peak	6	4
	Stable	6	4
H ₂ S (ppm)	Peak	0	0
	Stable	0	0
Flow (L/hr)	Peak	0.2	0.1
	Stable	0.2	0.1
Time to Stabilise (mins)		10	10
Weather & Atmospheric Pressure (hPa)		Sunny - 1,004 at start and end of monitoring (stable).	

Table Eighteen: Ground Gas Monitoring Data

4.6.2 Results of Preliminary Hazardous Ground Gas Screening Assessment

To establish whether the concentrations of methane and carbon dioxide are present at potentially hazardous concentrations in shallow soils, we have calculated Gas Screening Values (GSV) using our monitoring data. These were calculated using gas concentrations and flow rates, in accordance with the methodologies and guidance presented within BS8485 (2015). In order to assure conservatism within our assessment we have used maximum gas concentrations and flow rates recorded at each location when calculating GSVs.

In order to assess the risks posed by any carbon monoxide and hydrogen sulphide concentrations we detected, we have adopted the long-term Occupational Exposure Limits (OELs) outlined in CIRIA C665.

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		BH001	BH002
Maximum Gas Screening Value (l/hr)	CO ₂	<0.07	<0.07
	CH ₄	<0.07	<0.07
CO ₂ & CH ₄ Risk Classification		Very Low Risk	
Characteristic Situation (CIRIA 149)		CS1	CS1
Does concentration exceed long-term OEL? (CIRIA C665)	CO - 30ppm OEL	No	No
	H ₂ S - 5ppm OEL	No	No
Assessment of Data & Conclusions	Our ground gas monitoring indicates there are no significant risks posed to future site workers, and the site could be classified as CS1. We consider that no protective measures are required for the proposed warehouse. We also highlight that the proposed structure will be very well ventilated during operating hours, with a ~5m x 5m roller door present.		

Table Nineteen: Gas Ground Assessment Result

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5 Chemical Analysis Results

5.1 Chemical Analysis Rationale

Analysis	Rationale	No of Samples	
		Soil	Water
Total Petroleum Hydrocarbons (TPH) - reported by carbon range and with aromatic and aliphatic speciation	Representative of compounds present in petrol, diesel and lube oils	3	1
Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and MTBE	Representative of compounds present in petrol	4	1
Polycyclic Aromatic Hydrocarbons (PAHs)	Representative of compounds present in diesel and lube oil	4	-
Metals	Representative of compounds commonly encountered in imported Made Ground	3	-
Asbestos Screen		2	-
Total Organic Carbon (TOC)	Site-specific data used within risk assessment process	3	-

The results of our analysis are summarised below.
 Certificates for all chemical analysis are included in Attachment Four.

Table Twenty: Schedule of Analysis

5.2 Soil Analysis Results

Analyte	Unit	Sample Details			
		BH001	BH002	BH003	BH004
		S2	S1	S3	S1
		1.2m	0.4m	2.0m	0.4m
MTBE	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1
p+m Xylene	mg/kg	<0.1	<0.1	<0.1	<0.1
o Xylene	mg/kg	<0.1	<0.1	<0.1	<0.1

Table Twenty-one: BTEX Analysis Results – Soil

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Analyte	Unit	Sample Details		
		BH002	BH003	BH004
		S4	S1	S3
		3.0m	0.4m	1.5m
C ₆₋₈ Aliphatic TPH	mg/kg	<2.5	<2.5	<2.5
>C ₈₋₁₀ Aliphatic TPH	mg/kg	<2.5	<2.5	<2.5
>C ₁₀₋₁₂ Aliphatic TPH	mg/kg	<5	<5	<5
>C ₁₂₋₁₆ Aliphatic TPH	mg/kg	<5	<5	<5
>C ₁₆₋₂₁ Aliphatic TPH	mg/kg	<5	<5	<5
>C ₂₁₋₃₅ Aliphatic TPH	mg/kg	<20	<20	<20
C ₆₋₈ Aromatic TPH	mg/kg	<2.5	<2.5	<2.5
>C ₈₋₁₀ Aromatic TPH	mg/kg	<2.5	<2.5	<2.5
>C ₁₀₋₁₂ Aromatic TPH	mg/kg	<5	<5	<5
>C ₁₂₋₁₆ Aromatic TPH	mg/kg	<5	<5	<5
>C ₁₆₋₂₁ Aromatic TPH	mg/kg	<10	<10	<10
>C ₂₁₋₃₅ Aromatic TPH	mg/kg	<20	<20	<20

Table Twenty-two: Speciated TPH Analysis Results – Soil

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
		Date	July 2023
		Page	19

Analyte	Unit	Sample Details			
		BH001	BH002	BH003	BH004
		S2	S2	S2	S2
		1.2m	1.0m	0.9m	0.7m
Naphthalene	mg/kg	< 0.1	< 0.1	< 0.1	0.22
Acenaphthylene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	< 0.1	0.14	0.29
Anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(ah)anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PAHs (EPA16)	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6

Table Twenty-three: PAH Analysis Results – Soil

Analyte	Unit	Sample Details	
		BH001	BH003
		S1	S1
		0.4m	0.4m
Asbestos Screen	-	Not Detected	Not Detected

Table Twenty-four: Asbestos Screening Results - Soil

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
		Date	July 2023
		Page	20

Analyte	Unit	Sample Details		
		BH001	BH003	BH004
		S1	S1	S1
		0.4m	0.4m	0.4m
Antimony	mg/kg	2	1.5	1.4
Arsenic	mg/kg	8	5	7
Barium	mg/kg	152	148	86
Beryllium	mg/kg	1.4	< 0.5	0.6
Boron (Water Soluble)	mg/kg	< 1	< 1	< 1
Cadmium	mg/kg	0.4	2	< 0.2
Chromium	mg/kg	13	9	12
Chromium Hexavalent	mg/kg	< 2	< 2	< 2
Copper	mg/kg	29	11	13
Lead	mg/kg	44	7	26
Mercury	mg/kg	< 1	< 1	< 1
Molybdenum	mg/kg	1.1	1.2	< 1
Nickel	mg/kg	25	6	14
Selenium	mg/kg	< 2	< 2	< 2
Vanadium	mg/kg	21	16	14
Zinc	mg/kg	109	188	34

Table Twenty-five: Metals Analysis Results – Soil

Analyte	Unit	Sample Details		
		BH001	BH002	BH004
		S3	S3	S4
		2.3m	2.0m	3.0m
Total Organic Carbon	%	0.9	1.1	0.9
SOM	%	1.55	1.89	1.55

* - SOM = Soil Organic Matter. Assumed to comprise 58% TOC - calculated as (TOC) x 1.72

Table Twenty-six: TOC Analysis Results - Soil

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
		Date	July 2023
		Page	21

5.3 Groundwater Analysis Results

Analyte	Unit	Sample Details
		BH001
C ₆₋₈ Aliphatic TPH	ug/l	<10
>C ₈₋₁₀ Aliphatic TPH	ug/l	<10
>C ₁₀₋₁₂ Aliphatic TPH	ug/l	<50
>C ₁₂₋₁₆ Aliphatic TPH	ug/l	<50
>C ₁₆₋₂₁ Aliphatic TPH	ug/l	<50
>C ₂₁₋₃₅ Aliphatic TPH	ug/l	<50
C ₆₋₈ Aromatic TPH	ug/l	<10
>C ₈₋₁₀ Aromatic TPH	ug/l	<10
>C ₁₀₋₁₂ Aromatic TPH	ug/l	<50
>C ₁₂₋₁₆ Aromatic TPH	ug/l	<50
>C ₁₆₋₂₁ Aromatic TPH	ug/l	<50
>C ₂₁₋₃₅ Aromatic TPH	ug/l	<50

Table Twenty-seven: Speciated TPH Analysis Results - Groundwater

Analyte	Unit	Sample Details
		BH001
MTBE	ug/l	<25
Benzene	ug/l	<5
Toluene	ug/l	<5
Ethylbenzene	ug/l	<5
p+m Xylene	ug/l	<10
o Xylene	ug/l	<5

Table Twenty-eight: BTEX Analysis Results - Groundwater

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
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6 Conceptual Site Model

6.1 Summary of Investigation Findings

Items	Details	
Geology	We encountered a layer of Made Ground comprised of asphalt (new and old) overlying brown and grey gravelly sandy clay with pockets of sand, including rare red brick fragments. This extended to a maximum depth of 1.3m. Beneath the Made Ground, we identified brown occasionally yellow brown clayey sand with frequent fine to coarse gravel to 2.4m, interpreted as Glaciofluvial Deposits. This was followed by Till, generally present as a grey brown very sandy clay with occasional fine to coarse gravel up to our maximum borehole depth of 4.0m.	
Hydrogeology	Strikes were noted within or near the base of the Glaciofluvial Deposits. At-rest groundwater levels ranged from 0.8m - 1.1m below ground level.	
Surface Water Features	As per desk based study.	
Site Users and Neighbours	As per desk based study.	
Identified Contaminants	Soil	During the logging of soil cores we observed no visual or olfactory evidence of contamination. The results of the chemical analysis carried out on selected soil samples, confirms the presence of trace PAH concentrations in shallow soil. No detectable BTEX or TPH compounds were recorded. Metals were recorded at low concentrations and no asbestos fibres were identified in the samples we screened.
	Groundwater	During our groundwater monitoring visit we observed no evidence of significant contamination. No detectable BTEX or TPH compounds were recorded in the sample we analysed.
	VOC Reading	A maximum VOC reading of 3ppm was recorded within our monitoring wells, which is not considered to pose a significant risk to future site users.
	Hazardous Ground Gas	Our ground gas monitoring indicates there are no significant risks posed to future site workers, and the site could be classified as CS1 (very low risk). We consider that no ground-gas protective measures are required for the proposed warehouse.

Table Twenty-nine: Summary of Investigation Findings

6.2 Conceptual Site Model

We have used the information obtained during the course of our site inspection and ground investigation to compile our conceptual model of the site and it's environs. Our model and resulting pollutant linkages are summarised on the following page.

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
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Contaminant	Pathway	Receptor	Potential Contaminant Linkage
The site has formed part of yard/area of hardstanding since the 1980s. According to historical maps, no buildings have ever been constructed at the site. Trace PAH concentrations in shallow soil. Metals were also recorded at background levels. A maximum VOC reading of 3ppm was recorded within our monitoring wells.	Ingestion and dermal contact	Future site workers	No - site covered with hard standing; this will act as a barrier and mitigate risk of impact
	Permeation of volatile contaminants into drinking water supply service pipes		No - we understand there is to be no drinking water supply installed in the new warehouse.
	Volatilisation of volatile contaminants to indoor/outdoor air (either direct from soils or dissolved in groundwater)		No - significant impact has not been recorded in shallow soil/groundwater samples
	Off-site migration of contaminants: volatilisation to indoor/outdoor air (vapours from on-site soils or via lateral migration of dissolved compounds)	Commercial / industrial properties in the vicinity	
	Downward migration of contaminants to groundwater	Secondary Aquifers	
	Off-site migration of contaminants dissolved in groundwater leading to direct impact of environmental receptors	Land drain 183m E & Afon Goch 250m SW Surface water abstraction 681m south-east	No - hydrocarbon impact has not been recorded in groundwater
Potential off-site sources of contamination (industrial area)	On-site migration of contaminants: volatilisation to indoor/outdoor air	Future site workers	No - significant impact has not been recorded in shallow soil/groundwater samples
Hazardous Ground Gas	Accumulation beneath and within proposed warehouse		No - elevated ground gas concentrations were not detected (CS1)

Table Thirty: Potential Contaminant Linkages

Has our qualitative assessment confirmed that potential contaminant linkage(s) exist at the site?

No

We therefore do not consider further (quantitative) risk assessment to be required at this time. See overleaf for our conclusions and any recommendations relating to the data produced during our investigation.

Table Thirty-one: Results of Qualitative Risk Assessment

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
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7 Environmental Assessment Conclusions and Recommendations

The results of our environmental assessment indicate the following:

- The site is located within Brothers Industries, Vauxhall Industrial Estate, Ruabon and comprises unused asphalt paved yard space. We understand that Brothers Industries (UK) Ltd proposes to erect a 25m x 15m x 7.5m portal framed storage/distribution facility. No below ground excavations are to be formed, and the structure will be bolted onto the existing asphalt surfacing.
- Our historical review indicates the site has likely formed part of yard/area of hardstanding since the 1980s. Based on available maps, no buildings have ever been constructed on-site.
- The site is located in an area of low to moderate environmental sensitivity. Surrounding land use is mostly industrial. Underlying geology comprises Glaciofluvial Deposits overlying glacial Till, followed by Etruria Formation. These units are all classified as Secondary Aquifers. Nearest surface water features are a land drain 183m east and Afon Goch 250m south-west. A surface water abstraction is located 681m south-east.
- We encountered a layer of Made Ground comprised of asphalt (new and old) overlying brown and grey gravelly sandy clay with pockets of sand, including rare red brick fragments. This extended to a maximum depth of 1.3m. Beneath the Made Ground, we identified brown occasionally yellow brown clayey sand with frequent fine to coarse gravel to 2.4m, interpreted as Glaciofluvial Deposits. This was followed by Till, generally present as a grey brown very sandy clay with occasional fine to coarse gravel up to our maximum borehole depth of 4.0m.
- Groundwater strikes were noted within or near the base of the Glaciofluvial Deposits (Secondary Aquifer). At-rest groundwater levels ranged from 0.8m - 1.1m below ground level.
- During the logging of soil cores we observed no visual or olfactory evidence of contamination. The results of the chemical analysis carried out on selected soil samples, confirms the presence of trace PAH concentrations in shallow soil. No detectable BTEX or TPH compounds were recorded. Metals were identified at low concentrations and no asbestos fibres were detected in the samples we screened.
- During our groundwater monitoring we observed no visual or olfactory evidence of contamination. No detectable BTEX or TPH compounds were recorded in the sample we analysed.
- A maximum VOC reading of 3ppm was recorded within our monitoring wells, which is not considered to pose a significant risk to future site users.
- Our ground-gas screening indicates there are no significant risks posed to future site workers, and the site could be classified as CS1 (very low risk). We consider that no ground-gas protective measures are required for the proposed warehouse. We also highlight that the proposed structure will be very well ventilated during operating hours, with a ~5m x 5m roller door present.

In conclusion, we have not identified any viable pollutant linkages associated with the site. We do not consider further investigation, risk assessment and/or remedial works are required at this time. Therefore, the site is considered suitable for the proposed storage/distribution facility.

Table Thirty-two: Conclusions

Client: Portable Venues (Group) Limited (Smart Space)	Environmental Investigation Report	Report	IN23886 CL 001
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Brothers Industries, Wrexham

SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Tel: 01296 739400 Email: consultants@subadra.com

**ATTACHMENT ONE:
NOTICE TO INTERESTED PARTIES**

Client: Portable Venues (Group)
Limited (Smart Space)

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NOTICE TO INTERESTED PARTIES

The purpose of our work is to provide general information on the environmental And/OR geotechnical conditions existing at the site And related to soil And/OR groundwater. The Client Or others specified the scope of the investigation And the validity of our conclusions is limited by the scope of work specified. We are Not responsible for any such limitations Or omissions.

Where stated in this report, we have used information supplied by third parties. While we have evaluated As far As possible the validity Of this information, we cannot guarantee its accuracy In any way whatsoever.

No investigation technique is capable Of completely identifying all Of the contaminants that might be present In the soil Or groundwater under a site. Where specified In our report, we have examined the ground by constructing a number Of boreholes And/OR trial pits. We recovered samples Of soil And/OR groundwater from available exposures.

The depth And spacing Of our Sampling locations were selected To ensure With a reasonable probability that they would be representative Of the actual conditions across the whole site. However, safety considerations relating To existing site infrastructure may have restricted our ability To investigate all potential contaminant sources. Specifically, we were unable To investigate the soil And groundwater condition immediately adjacent To the underground structures And/OR buried services. These limitations must be borne In mind When considering the conclusions reached In this report.

Soil is intrinsically variable And the spread Of contaminants within the soil is therefore subject To a degree Of non-uniformity. For these reasons no sampling technique can completely eliminate the possibility Of obtaining samples that are Not representative Of the actual conditions. Our sampling techniques are intended To reduce the possibility To an acceptable level, within the limits imposed by the scope of the investigation.

Groundwater levels And soil vapour levels that we report were accurate at the time of the investigation. Groundwater And soil vapour levels are variable. Long term monitoring may be required to ensure that the levels recorded during our investigation are representative of long term And possible 'worst case' conditions. In accepting our recommendations and/or conclusions the Client acknowledges that further, more detailed investigation would allow a more accurate assessment of site conditions to be made and that this would reduce any consequential risk to the Client.

Our investigation was carried out to assess the significance of contamination resulting from use of the site as identified in this report. Unless we have indicated otherwise, no assessment of the potential impact of any other previous uses has been made. No investigation was carried out to determine whether or not any deleterious or hazardous materials (such as asbestos) have been used in the construction of the buildings present on the site. Unless otherwise stated no investigation or assessment has been made of the presence or otherwise of invasive plant species including but not limited to Japanese Knotweed.

Unless specifically stated otherwise, we have not assessed the effect of any proposed future construction activities on existing structures on or near to the site. Nor, unless stated otherwise, have we assessed the likely effect of trees on existing or proposed structures on or near the site.

We do not accept any responsibility for the cost of remedial works or other costs incurred in whatever way whatsoever as a result of any omissions, errors or other shortcomings in this report unless we have been given reasonable opportunity to verify ourselves that such faults exist and we have been given a reasonable opportunity to carry out works to remedy such faults ourselves using the most practicable means available to us. We do not accept liability for any consequential losses incurred by you while either we or others carry out any remedial works we deem necessary.

This report has been prepared for the Client, as specified on the cover page of this report. In accepting our recommendations and/or conclusions the Client accepts that the terms of our appointment were as detailed in the Proposal, or Proposals, that we provided to the Client before being appointed and that these terms supersede any other terms and/or conditions set out in any contracts agreed between ourselves and the Client, regardless of when such terms and/or conditions were agreed to by us and/or signed by us.

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Client: Portable Venues (Group)
Limited (Smart Space)

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**ATTACHMENT TWO:
ENVIRONMENTAL DATA REPORT AND HISTORICAL MAPS**

Client: Portable Venues (Group) Limited (Smart Space)		Report	IN23886 CL 001
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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

312222700_1_1

Customer Reference:

IN23886

National Grid Reference:

330400, 345520

Slice:

A

Site Area (Ha):

0.04

Search Buffer (m):

1000

Site Details:

Brothers Industries
Vauxhall Industrial Estate
Ruabon
WREXHAM
LL14 6HA

Client Details:

Mr S Partridge
Subadra Consulting Ltd
Unit 13 Triangle Business Park
Wendover
Bucks
HP22 5BL

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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 this 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 v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1	3	27
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 10		2		
Integrated Pollution Prevention And Control	pg 10		7	6	2
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 14		2	3	2
Local Authority Pollution Prevention and Control Enforcements	pg 15		1	2	
Nearest Surface Water Feature			Yes		
Pollution Incidents to Controlled Waters	pg 15		1	4	12
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 18			1	4
Water Abstractions	pg 19				1 (*1)
Water Industry Act Referrals	pg 19		1		1
Groundwater Vulnerability Map	pg 19	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 20	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 20		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences				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
OS Water Network Lines	pg 20		3	10	54

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 28		1		2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 28		3		3
Licensed Waste Management Facilities (Locations)	pg 29		1	1	16
Local Authority Landfill Coverage	pg 33	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 34			1	1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 35			1	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 36	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 36			4	12
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 39	Yes	n/a	n/a	n/a
Mining Instability	pg 39	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 39	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 39		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 39	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 39	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

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 41		22	13	33
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 47			3	3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
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	pg 47		1		
Special Areas of Conservation	pg 47		1		
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (NW)	0	1	330395 345519
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	189	1	330550 345650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	221	1	330200 345650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	268	1	330650 345400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	289	1	330200 345750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	294	1	330700 345550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	300	1	330700 345450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	314	1	330700 345400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	343	1	330750 345519
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	343	1	330750 345500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	349	1	330750 345450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	350	1	330250 345850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	364	1	330750 345650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	374	1	330395 345900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	379	1	330750 345350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	383	1	330000 345519
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	384	1	330750 345700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	388	1	330000 345450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	399	1	330000 345400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	416	1	330000 345350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	433	1	329950 345519
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	433	1	329950 345500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	437	1	329950 345450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	447	1	329950 345400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	447	1	330800 345300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	449	1	330850 345600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	460	1	330850 345650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	471	1	330000 345800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	483	1	329900 345519
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	484	1	329900 345550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	487	1	329900 345450
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Industrial Parks & Estates Location: Johnstown Vauxhall Industrial Estat, Vauxhall Industrial Estate, Ruabon, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0047101 Permit Version: 1 Effective Date: 17th January 1968 Issued Date: 17th January 1968 Revocation Date: 6th March 2007 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib.Of Black Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	159	2	330520 345400
2	Discharge Consents Operator: Kwik Save Group Ltd. Property Type: Undefined Or Other Location: Kwik Save Foodstore Ruabon Road Joh, Ruabon Road Johnstown Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0177401 Permit Version: 1 Effective Date: 8th December 1988 Issued Date: 8th December 1988 Revocation Date: 22nd December 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Stream Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12NE (W)	353	2	330030 345520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Mr Carl Scourfield Property Type: Domestic Property (Single) Location: Land To Rear Of Machine Cottage, Ruabon Road, Wrexham, Clwyd, LI14 6ra Authority: Natural Resources Wales Catchment Area: River Dee Reference: Npswqd003654 Permit Version: 1 Effective Date: 5th August 2008 Issued Date: 5th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Ground Waters Via A Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	369	2	330123 345251
3	Discharge Consents Operator: Mr Carl Scourfield Property Type: Domestic Property (Single) Location: Land To Rear Of Machine Cottage, Ruabon, Wrexham, Clwyd, LI14 6ra Authority: Environment Agency, Midlands Region Catchment Area: Perry Catchment Reference: Npswqd003654 Permit Version: 1 Effective Date: 5th August 2008 Issued Date: 5th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	369	3	330123 345251
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Bangor Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0197501 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 4th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Aberderfyn Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	542	2	330800 345900
4	Discharge Consents Operator: Director And General Manager Property Type: Extraction Of Stone, Gravel Etc. Location: Hafod Quarry Bangor Road, Ruabon, Wrexham, LI14 6et Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0397901 Permit Version: 1 Effective Date: 25th March 2002 Issued Date: 25th March 2002 Revocation Date: 1st November 2004 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Aberderfyn Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	556	2	330790 345930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Combined Sewerage System Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: Cm0050101 Permit Version: 3 Effective Date: 31st March 2007 Issued Date: 31st March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Black Brook Status: Effective Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	618	2	330900 345900
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Combined Sewerage System Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: Cm0050101 Permit Version: 3 Effective Date: 31st March 2007 Issued Date: 31st March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Black Brook Status: Effective Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	618	2	330900 345900
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Combined Sewerage System Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0050101 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 8th March 2005 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Black Brook Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	618	2	330900 345900
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Combined Sewerage System Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0050101 Permit Version: 1 Effective Date: 20th May 1968 Issued Date: 20th May 1968 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Black Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	618	2	330900 345900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Trevalyn Estates Ltd Property Type: Industrial Parks & Estates Location: Gardden Ind Estate Tatham Road Rua, Tatham Road, Ruabon, Wrexham Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: CM0090001 Permit Version: Not Supplied Effective Date: 19th November 1980 Issued Date: 19th November 1980 Revocation Date: Not Supplied Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: Effective Positional Accuracy: Located by supplier to within 100m	A8NW (S)	639	2	330200 344900
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Johnstown Combined Sewerage System Cso, Nr 106 Bangor Rd, Ruabon, Wrexham, L114 6et Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0050101 Permit Version: Not Supplied Effective Date: 21st October 2019 Issued Date: 21st October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Black Spool Status: Effective Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	642	2	330850 345991
8	Discharge Consents Operator: Clwyd Compounders Limited Property Type: Other Rubber Manufacture Location: Septic Tank Serving Unit 1, Gardden, Unit 1, Gardden Industrial Estate, Ruabon, Wrexham, L114 6rg Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprb3097tc Permit Version: 1 Effective Date: 7th January 2014 Issued Date: 7th January 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	679	2	330083 344903
8	Discharge Consents Operator: Clwyd Compounders Limited Property Type: Not Supplied Location: Septic Tank Serving Unit 1, Gardden, Unit 1, Gardden Industrial Estate, Ruabon, Wrexham, L114 6rg Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Rb3097tc Permit Version: Not Supplied Effective Date: 7th January 2014 Issued Date: 7th January 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	679	2	330083 344903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Wrg Property Type: Not Supplied Location: Gardden Lodge Landfill Site Ruabon, Tatham Road, Ruabon Wrexham Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0180301 Permit Version: Not Supplied Effective Date: 20th May 2000 Issued Date: 4th May 1993 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Goch Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SW (S)	721	2	330150 344830
9	Discharge Consents Operator: Shanks Waste Services Ltd Property Type: Unspecified Tip Location: Gardden Lodge Landfill Site Ruabon, Tatham Road, Ruabon Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0180301 Permit Version: 2 Effective Date: 4th May 1993 Issued Date: 4th May 1993 Revocation Date: 19th May 2000 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: Afon Goch Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	721	2	330150 344830
9	Discharge Consents Operator: Shanks & Mcewan (Northern) Ltd Property Type: Unspecified Tip Location: Gardden Lodge Landfill Site Ruabon, Tatham Road, Ruabon Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0180301 Permit Version: 1 Effective Date: 21st March 1989 Issued Date: 21st March 1989 Revocation Date: 3rd May 1993 Discharge Type: Waste Site - Unspecified Discharge: Not Supplied Environment: Receiving Water: Afon Goch Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (S)	721	2	330150 344830
10	Discharge Consents Operator: Clwyd County Council Property Type: Domestic Property (Single) Location: Ruabon New Hall Old Peoples' Home Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0054401 Permit Version: 1 Effective Date: 14th February 1969 Issued Date: 14th February 1969 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Pond Overflow Into Goch Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	721	2	330870 344960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Trevalyn Estates Ltd Property Type: Industrial Parks & Estates Location: Gardden Ind Estate Tatham Road Rua, Tatham Road, Ruabon, Wrexham Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: CM0090101 Permit Version: Not Supplied Effective Date: 19th November 1980 Issued Date: 19th November 1980 Revocation Date: Not Supplied Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: Effective Positional Accuracy: Located by supplier to within 100m	A8SW (S)	736	2	330200 344800
12	Discharge Consents Operator: Hafod Quarries Ltd Property Type: Extraction Of Stone, Gravel Etc. Location: Hafod Clay Pit Ruabon Wrexham, Ruabon Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cg0323101 Permit Version: 2 Effective Date: 14th June 2000 Issued Date: 27th July 1992 Revocation Date: 1st November 2004 Discharge Type: Trade Discharges - Site Drainage Discharge: Not Supplied Environment: Receiving Water: Aberderfyn Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (E)	773	2	331170 345650
12	Discharge Consents Operator: Hafod Quarries Ltd Property Type: Extraction Of Other Minerals Location: Hafod Clay Pit Ruabon Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CG0323101 Permit Version: 1 Effective Date: 27th July 1992 Issued Date: 27th July 1992 Revocation Date: 13th June 2000 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Aberderfyn Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A14NE (E)	774	2	331172 345648
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso At Ruabon Combined Sewerage System, New Hall Road, Ruabon, Wrexham, LI15 6au Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0050201 Permit Version: Not Supplied Effective Date: 21st October 2019 Issued Date: 21st October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Goch Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	804	2	330817 344821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ruabon Combined Sewerage System, New Hall Road, Ruabon Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: Cm0050201 Permit Version: 3 Effective Date: 31st March 2009 Issued Date: 31st March 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	804	2	330817 344821
13	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ruabon Combined Sewerage System, New Hall Road, Ruabon Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: Cm0050201 Permit Version: 3 Effective Date: 31st March 2009 Issued Date: 31st March 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: Effective Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	804	2	330817 344821
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Fford Offa Cso, Ne 43 Ffordd Offa, Rhosllanerchrugog, Wrexham, LL14 2ey Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0359501 Permit Version: Not Supplied Effective Date: 29th August 2019 Issued Date: 29th August 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Watercourse Status: Effective Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	823	2	329808 346115
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ffordd Offa Rhosllanerchrugog Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: CG0359501 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Watercourse Status: Effective Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	860	2	329770 346130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ffordd Offa Rhoslanerchrugog Authority: Natural Resources Wales Catchment Area: BLACK BROOK (CLYWEDOG) Reference: Cg0359501 Permit Version: 1 Effective Date: 21st July 1994 Issued Date: 21st July 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Watercourse Status: Effective Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	860	2	329770 346130
15	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ruabon Combined Sewerage System, New Hall Road, Ruabon Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0050201 Permit Version: 2 Effective Date: 30th March 2009 Issued Date: 21st January 2005 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	852	2	331000 344900
15	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ruabon Combined Sewerage System, New Hall Road, Ruabon Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0050201 Permit Version: 1 Effective Date: 20th May 1968 Issued Date: 20th May 1968 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Goch Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	852	2	331000 344900
16	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ruabon New Hall Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0199401 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 4th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Black Brook Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8SE (S)	864	2	330700 344700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Rees Jones Developments Ltd Property Type: Undefined Or Other Location: Johnstown Tan-Y-Clawdd Nant Park Es, Tan-Y-Clawdd Nant Park Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0080902 Permit Version: 1 Effective Date: 5th February 1976 Issued Date: 5th February 1976 Revocation Date: 24th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Aberderfyn Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	896	2	330760 346350
18	Integrated Pollution Controls Name: Morgan Advanced Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HY Authority: Environment Agency, Welsh Region Permit Reference: BC9305 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (F) Inorganic Chemical processes within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	107	3	330487 345597
18	Integrated Pollution Controls Name: Morgan Advanced Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HY Authority: Environment Agency, Welsh Region Permit Reference: AO0164 Dated: 28th November 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.5 A (F) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	107	3	330487 345597
19	Integrated Pollution Prevention And Control Name: Ruabon Electro Ceramics Location: Ruabon Electro Ceramics, Vauxhall Industrial Estate, Ruabon,, WREXHAM, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: PP3834CB Original Permit Ref: Not Supplied Effective Date: 13th April 2018 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 PART A (1) D) Activity Description: Not Supplied Primary Activity: Y Activity Code: 5.3 A(1) a) (ii) Activity Description: Not Supplied Primary Activity: N	A13NE (NE)	92	2	330470 345594
19	Integrated Pollution Prevention And Control Name: Morgan Technical Ceramics Limited Location: Ruabon Electro Ceramics, Vauxhall Industrial Estate, Ruabon,, WREXHAM, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: ZP3831CU Original Permit Ref: Pp3834cb Effective Date: 26th September 2012 Status: Effective Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescrined) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Integrated Pollution Prevention And Control Name: Morgan Electro Ceramics Ltd Location: Ruabon Electro Ceramics, Vauxhall Industrial Estate, Ruabon,, WREXHAM, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: UP3938HY Original Permit Ref: By0364ib Effective Date: 25th January 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescribed) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594
19	Integrated Pollution Prevention And Control Name: Morgan Electro Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: QP3232UM Original Permit Ref: By0364ib Effective Date: 23rd August 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescribed) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594
19	Integrated Pollution Prevention And Control Name: Morgan Electro Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: FP3838MT Original Permit Ref: By0364ib Effective Date: 26th February 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescribed) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594
19	Integrated Pollution Prevention And Control Name: Morgan Electro Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: NP3338LX Original Permit Ref: By0364ib Effective Date: 18th July 2006 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescribed) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594
19	Integrated Pollution Prevention And Control Name: Morgan Electro Ceramics Ltd Location: Ruabon Electro Ceramics, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HY Authority: Natural Resources Wales Permit Reference: By0364ib Original Permit Ref: By0364ib Effective Date: 31st August 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (D) Activity Description: Inorganic Chemicals; Using Etc Of Antimony Etc (Unless Otherwise Prescribed) (Unless Glazing Etc) Primary Activity: Y	A13NE (NE)	92	2	330470 345594

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Integrated Pollution Prevention And Control Name: Hafod Quarry Landfill Site Location: Hafod Landfill Ea/Epr/Pp3139gb/T001, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: PP3139GB Original Permit Ref: Not Supplied Effective Date: 6th March 2020 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: Y	A14NW (E)	453	2	330860 345540
20	Integrated Pollution Prevention And Control Name: Cory Environmental (Central) Ltd Location: Hafod Landfill - Ea/Epr/Pp3139gb/V005, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: DP3839FS Original Permit Ref: Pp3139gb Effective Date: 7th February 2012 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N	A14NW (E)	453	2	330860 345540
20	Integrated Pollution Prevention And Control Name: Cory Environmental (Central) Ltd Location: Hafod Landfill - Ea/Epr/Pp3139gb/V005, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: PP3934TD Original Permit Ref: Pp3139gb Effective Date: 8th June 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14NW (E)	453	2	330860 345540
20	Integrated Pollution Prevention And Control Name: Cory Environmental (Central) Ltd Location: Hafod Landfill Ea/Epr/Pp3139gb/V004, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: KP3933KM Original Permit Ref: Pp3139gb Effective Date: 25th September 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14NW (E)	453	2	330860 345540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Integrated Pollution Prevention And Control Name: Cory Environmental Ltd Location: Hafod Landfill Ea/Epr/Pp3139gb/V003, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: GP3034GM Original Permit Ref: Pp3139gb Effective Date: 27th March 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14NW (E)	453	2	330860 345540
20	Integrated Pollution Prevention And Control Name: Mersey Waste Holdings Associate Ltd Location: Hafod Landfill Ea/Epr/Bs8621iw/T003, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: Bs8621iw Original Permit Ref: Bs8621iw Effective Date: 8th October 2004 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14NW (E)	453	2	330860 345540
21	Integrated Pollution Prevention And Control Name: Mersey Waste Holdings Associate Ltd Location: Hafod Landfill, Hafod Quarry And Landfill Site, Bangor Road,,, Johnstown, Wrexham Borough Council, LL14 6ET Authority: Natural Resources Wales Permit Reference: TP3032LA Original Permit Ref: Bs8621iw Effective Date: 28th February 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A14NW (NE)	671	2	331014 345813
22	Integrated Pollution Prevention And Control Name: Cory Environmental (Central) Ltd Location: Hafod Quarry Landfill, Hafod Quarry Landfill, Bangor Road,Johnstown,, Wrexham, LL14 6ET Authority: Natural Resources Wales Permit Reference: DP3636ZC Original Permit Ref: Pp3139gb Effective Date: 26th June 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned within the geographical locality Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A19SE (NE)	825	2	331081 346002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Local Authority Pollution Prevention and Controls Name: Morgan Electro Ceramics Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6ha Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: 41 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/45 Surface cleaning Status: Authorisation certificate surrendered by operator Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	77	4	330474 345564
24	Local Authority Pollution Prevention and Controls Name: G H A Coaches Location: Unit 11 Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6ha Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG1-1-1-GHA 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	A13SE (S)	229	4	330419 345284
25	Local Authority Pollution Prevention and Controls Name: Flint Ink (Uk) Ltd Location: Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HU Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/44/FI Dated: 9th February 1994 Process Type: Local Authority Air Pollution Control Description: PG6/44 Manufacture of coating materials Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SW (S)	295	4	330344 345220
26	Local Authority Pollution Prevention and Controls Name: Steni Uk Ltd Location: Units 1-4 Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HA Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG4/2/SF/V1 Dated: 26th September 2001 Process Type: Local Authority Air Pollution Control Description: PG4/2 Processes for the manufacture of fibre reinforced plastics Status: Site Closed Positional Accuracy: Manually positioned to the address or location	A8NW (S)	384	4	330284 345142
26	Local Authority Pollution Prevention and Controls Name: Rockrite Ltd Location: Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HA Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg3/1(5)V1 Dated: 14th July 2002 Process Type: Local Authority Air Pollution Control Description: Part B - General Mineral Process (No Specific Reference) Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8NW (S)	401	4	330261 345131
27	Local Authority Pollution Prevention and Controls Name: Clwyd Compounders Ltd Location: Gardden Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6RG Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg6/28/Ccv2 Dated: 18th June 1993 Process Type: Local Authority Air Pollution Control Description: PG6/28 Rubber processes Status: Authorised Positional Accuracy: Automatically positioned to the address	A8SW (SW)	773	4	330090 344797
28	Local Authority Pollution Prevention and Controls Name: Bryn Melyn Ltd Location: Unit Ga 05 Gardden Industrial Estate, Ruabon, Wrexham, LL14 6rg Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG1-1-1-BM 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	A7SE (SW)	788	4	330034 344806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Local Authority Pollution Prevention and Control Enforcements Location: Unit 11 Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Type: Air Pollution Control Enforcement Notice Reference: WCBC-PG1-1-1-GHA Date Issued: Not Supplied Enforcement Date: 1st March 2011 Details: Not Supplied Positional Accuracy: Manually positioned to the address or location	A13SE (S)	229	4	330419 345284
30	Local Authority Pollution Prevention and Control Enforcements Location: Units 1-4 Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6ha Type: Air Pollution Control Enforcement Notice Reference: NOT GIVEN Date Issued: 1st February 2002 Enforcement Date: Not Supplied Details: Section 13 Notice Served Positional Accuracy: Manually positioned to the address or location	A8NW (S)	384	4	330284 345142
30	Local Authority Pollution Prevention and Control Enforcements Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6ha Type: Air Pollution Control Enforcement Notice Reference: NOT GIVEN Date Issued: 1st April 2002 Enforcement Date: Not Supplied Details: Section 80 Notice Served Positional Accuracy: Manually positioned to the address or location	A8NW (S)	401	4	330261 345131
	Nearest Surface Water Feature	A13SE (E)	183	-	330587 345478
31	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Aberderfyn Authority: Environment Agency, Welsh Region Pollutant: Mining Water Note: Vandalism Incident Date: 13th May 1995 Incident Reference: 23992 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	A13SW (SW)	228	3	330300 345300
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Next To, 39 Brandy Lane Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Afon Goch; Overflow Incident Date: 12th January 1998 Incident Reference: 34925 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	A13SW (W)	283	3	330100 345500
33	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Factory, Vauxhall Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 2nd September 1995 Incident Reference: 25598 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	313	3	330390 345200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Offa Street Authority: Environment Agency, Welsh Region Pollutant: Natural Foam Note: Accidental Spillage/Leakage Incident Date: 23rd April 1995 Incident Reference: 23923 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	A18SW (NW)	416	3	330200 345900
35	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Deliberate Act Incident Date: 25th October 1996 Incident Reference: 30285 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	A8NW (S)	444	3	330350 345070
36	Pollution Incidents to Controlled Waters Property Type: Not Given Location: High Street, JOHNSTOWN Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: River Dee Incident Date: 7th September 1997 Incident Reference: 33513 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	A17SE (NW)	605	3	330001 345996
36	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: Ashtons Furnace Bank, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Vandalism Incident Date: 13th October 1994 Incident Reference: 21391 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	A17SE (NW)	609	3	330001 346001
37	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Petrol Station, JOHNSTOWN Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Accidental Spillage/Leakage Incident Date: 21st October 1995 Incident Reference: 26445 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	A18SW (NW)	640	3	330100 346100
38	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Garnden Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 8th April 1992 Incident Reference: 4175 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	675	3	330100 344900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: RUABON Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Weather Incident Date: 31st July 1991 Incident Reference: 3002 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	A8SW (S)	739	3	330205 344795
39	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Denis Clay Tip, RUABON Authority: Environment Agency, Welsh Region Pollutant: Farm Land Run-Off Note: Not Supplied Incident Date: 25th January 1992 Incident Reference: 3276 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	741	3	330200 344795
40	Pollution Incidents to Controlled Waters Property Type: Not Given Location: The Firs, Brundy Road, JOHNSTOWN Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Mechanical/Electrical Failure Incident Date: 1st May 1997 Incident Reference: 32133 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	759	3	331000 346000
41	Pollution Incidents to Controlled Waters Property Type: Other Transport Location: Dennis Tiles, Ruabon, Johnstown, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Weather Incident Date: 6th July 1991 Incident Reference: 2905 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	A14NE (E)	811	3	331200 345695
41	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Edisbury, Grange Farm Authority: Environment Agency, Welsh Region Pollutant: Farm Land Run-Off Note: Not Supplied Incident Date: 29th August 1991 Incident Reference: 2004 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	812	3	331200 345700
41	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Down Stream Of Dennis, Ruabon Site Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 30th October 1991 Incident Reference: 1946 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)	815	3	331205 345695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Pollution Incidents to Controlled Waters Property Type: Other Transport Location: Dennis Ruabon Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Weather Incident Date: 31st July 1991 Incident Reference: 3001 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	A14NE (E)	816	3	331205 345700
42	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Culvert Under, New Bypass Near, Hafod House Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 12th February 1992 Incident Reference: 3376 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	A19SE (NE)	855	3	331150 345950
43	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 27th May 2020 Incident Reference: 2003682 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A14SW (E)	481	2	330877 345411
44	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 12th June 2020 Incident Reference: 2004148 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A14NW (NE)	633	2	330966 345823
45	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 12th June 2020 Incident Reference: 2004144 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A14NW (NE)	683	2	331027 345813
46	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 25th April 2003 Incident Reference: 153893 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Other Contaminated Water	A14NE (E)	784	2	331181 345652
47	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 8th August 2017 Incident Reference: 1704250 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Other Specific Waste Material	A19SE (NE)	911	2	331192 345989

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Water Abstractions Operator: Wrexham County Borough Licence Number: 24/67/7/0181 Permit Version: 100 Location: Afon Goch Authority: Environment Agency, Welsh Region Abstraction: Water Supply Related: Effluent/Slurry Dilution Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Gwenfro Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th February 1974 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	681	3	330760 344930
	Water Abstractions Operator: Mrs G Price Licence Number: 24/67/7/0183 Permit Version: 100 Location: Well Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th April 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1866	3	332110 344750
49	Water Industry Act Referrals Name: Morgan Advanced Ceramics Ltd Location: VAUXHALL INDUSTRIAL ESTATE, RUABON, WREXHAM, CLWYD, LL14 6HY Authority: Natural Resources Wales Permit Reference: AU5971 Dated: 18th January 1996 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A13NE (NE)	89	2	330470 345589
50	Water Industry Act Referrals Name: Robinson Bros (Environmental) Ltd Location: GARDEN LODGE LANDFILL SITE, RUABON, WREXHAM, CLWYD, LL14 6RD Authority: Natural Resources Wales Permit Reference: AX5099 Dated: 4th October 1996 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Manually positioned to the address or location	A8SW (S)	871	2	330106 344687
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial Thickness: 3-10m Superficial Recharge: Medium	A13SE (NW)	0	2	330395 345519
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (NW)	0	2	330395 345519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (NW)	0	2	330395 345519
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (W)	227	2	330167 345441
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 846.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13SE (E)	183	5	330586 345478
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (SW)	237	5	330169 345411
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (SW)	239	5	330164 345417
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (SW)	253	5	330176 345368
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13SW (W)	297	5	330100 345421
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 323.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (W)	302	5	330088 345445
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.9 Watercourse Level: Underground Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (SW)	317	5	330178 345270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A13SW (SW)	340	5	330174 345244
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (SW)	405	5	330168 345169
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 305.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13SE (SE)	420	5	330672 345186
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 144.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (SW)	455	5	330162 345115
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SW (SE)	468	5	330747 345190
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	471	5	329919 345609
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A12NE (W)	556	5	329830 345588
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	566	5	329820 345451
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	568	5	330785 345088

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NE (S)	570	5	330453 344945
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NE (S)	571	5	330503 344950
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	574	5	329832 345352
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	574	5	329833 345347
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 228.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NE (S)	578	5	330581 344961
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NE (S)	579	5	330572 344957
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (S)	581	5	330340 344933
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	585	5	330761 345046
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: Underground Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (SW)	586	5	330152 344974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	589	5	330762 345042
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	591	5	330773 345049
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	593	5	330762 345037
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	594	5	330774 345045
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (SW)	595	5	330142 344969
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 2	A12SE (SW)	596	5	329841 345264
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (SW)	596	5	329841 345264
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	601	5	330777 345039
84	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	613	5	330809 345050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	613	5	330809 345050
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 928.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A12NE (W)	649	5	329737 345593
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 351.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A19SW (NE)	660	5	330853 346013
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SW (NE)	662	5	330824 346040
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9NW (SE)	663	5	330823 344996
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A19SW (NE)	667	5	330829 346042
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: Underground Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (S)	670	5	330195 344870
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: Underground Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (S)	684	5	330137 344874
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A9NW (SE)	690	5	330793 344941

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A8NW (S)	695	5	330170 344851
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A9NW (SE)	698	5	330797 344934
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Goch Catchment Name: Dee Primacy: 1	A9NW (SE)	725	5	330868 344953
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: Underground Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14NE (NE)	760	5	331101 345835
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14NE (NE)	774	5	331119 345830
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14NE (E)	777	5	331174 345652
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14NE (E)	777	5	331174 345652
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 254.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9SW (SE)	799	5	330786 344808
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	818	5	330769 344779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9SW (SE)	820	5	330763 344774
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	838	5	330740 344743
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 396.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9SW (SE)	838	5	330740 344743
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9NW (SE)	858	5	330982 344875
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	862	5	330788 346300
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A19NW (NE)	862	5	330788 346300
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9NW (SE)	896	5	331039 344878
110	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	926	5	330862 346333
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	937	5	330868 346343

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Brook Catchment Name: Dee Primacy: 1	A9NE (SE)	939	5	331110 344889
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14NE (E)	942	5	331349 345538
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A14SE (E)	986	5	331392 345495
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 452.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17NE (NW)	986	5	329902 346387
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Aberderfyn Catchment Name: Dee Primacy: 1	A19NW (N)	994	5	330752 346458
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (N)	994	5	330752 346458

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Historical Landfill Sites Licence Holder: Sita Uk Location: Bangor Road, Johnstown, Wrexham Name: Hafod Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34211 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 37201 Regis Ref: WW1/L/SWM001 WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A13SE (E)	180	2	330586 345495
119	Historical Landfill Sites Licence Holder: Watkin Jones and Son Limited Location: Stryd Las, Johnstown, Wrexham Name: Stryd Las Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14774 First Input Date: 31st December 1993 Last Input Date: 31st December 1995 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 37077 Regis Ref: WW1/L/WAT001 WRC Ref: 6955/0052 BGS Ref: Not Supplied Other Ref: NOW-513-L, WMBC L75	A17SE (NW)	666	2	329967 346047
120	Historical Landfill Sites Licence Holder: Shanks and McEwan Northern Limited Location: Gardden Lodge, Tatham Road, Ruabon, Wrexham, Clywd Name: Gardden Clay Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14778 First Input Date: 31st December 1977 Last Input Date: 31st August 1984 Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0028 BGS Ref: Not Supplied Other Ref: WMBC L/23, WMBC L82	A8SW (S)	724	2	330181 344817
121	Licensed Waste Management Facilities (Landfill Boundaries) Name: Hafod Quarry Licence Number: 37201 Location: Bangor Road, Johnstown, Wrexham, LL14 6ET Licence Holder: Sita Uk Authority: Natural Resources Wales Site Category: Co-disposal Landfill Sites Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 30th April 1999 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13SE (E)	180	2	330586 345495
122	Licensed Waste Management Facilities (Landfill Boundaries) Name: Not Supplied Licence Number: 37201 Location: Not Supplied Licence Holder: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Max Input Rate: Not Supplied Licence Status: Inactive Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13SE (E)	180	2	330586 345495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Licensed Waste Management Facilities (Landfill Boundaries) Name: Hafod Quarry Landfill Licence Number: 37286 Location: Bangor Road, Johnstown, Wrexham, Clwyd, LL14 6ET Licence Holder: Cory Environmental (Central) Ltd Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: PPC Issued: 8th March 2005 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NE (E)	226	2	330630 345563
124	Licensed Waste Management Facilities (Landfill Boundaries) Name: Stryd Las Licence Number: 37077 Location: Stryd Las, Johnstown, Wrexham, LL14 2AN Licence Holder: Watkin Jones & Sons Authority: Natural Resources Wales Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 22nd July 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A17SE (NW)	723	2	329870 346037
125	Licensed Waste Management Facilities (Landfill Boundaries) Name: Gardden Claypit 2 Northern Licence Number: 37109 Location: Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Licence Holder: Shanks Northern Ltd Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Closure Issued: 6th July 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SW (S)	725	2	330188 344815
126	Licensed Waste Management Facilities (Landfill Boundaries) Name: Gardden Claypit 1 Midlands Licence Number: 37014 Location: Gardden, Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Licence Holder: Shanks Midlands Ltd Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Closure Issued: 2nd May 1989 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SW (S)	726	2	330183 344815
127	Licensed Waste Management Facilities (Locations) Licence Number: FB3234AY Location: Brother Industries (U.K.) Ltd., Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Operator Name: Brother Industries (U.K.) Ltd. Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: Effective Issued: 1st February 2022 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	A13SW (SW)	55	2	330333 345490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	Licensed Waste Management Facilities (Locations) Licence Number: 103896 Location: Brother Industries (U K) Ltd, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Operator Name: Brother Industries (U K) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Material Recycling Treatment Facilities Licence Status: Issued Issued: 6th August 2012 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 100m	A13SW (W)	304	2	330100 345400
129	Licensed Waste Management Facilities (Locations) Licence Number: AP3194FU Location: Ruabon, Wrexham, Clwyd, LL14 6RG Operator Name: Williams H K; K; D H; A K; C A; I J And N G Williams Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Effective Issued: 28th March 2003 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	A8NW (SW)	528	2	330096 345069
129	Licensed Waste Management Facilities (Locations) Licence Number: 37231 Location: H K Motors, Gardden Industrial Estate, Ruabon, Wrexham, LL14 6RG Operator Name: Williams H K; K; D H; A K; C A; I J And N G Williams Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Modified Issued: 28th March 2003 Last Modified: 10th December 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	528	2	330096 345069
130	Licensed Waste Management Facilities (Locations) Licence Number: EP3794FY Location: I Hayward Ltd, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Operator Name: I Hayward Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Effective Issued: 30th April 1999 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	A8NW (SW)	603	2	330082 344990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Licensed Waste Management Facilities (Locations) Licence Number: 37162 Location: I Hayward Ltd, Gardden Ind Est, Ruabon, Wrexham, LL14 6RG Operator Name: I Hayward Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Modified Issued: 31st March 1999 Last Modified: 31st 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	A8NW (SW)	603	2	330082 344990
130	Licensed Waste Management Facilities (Locations) Licence Number: VP3394FX Location: Clwyd Car Breakers, Ruabon, Wrexham, Clwyd, Wrexham, LL14 6RG Operator Name: D Bennett Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Expired Issued: 31st March 1999 Last Modified: Not Supplied Expires: 25th July 2010 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	644	2	330083 344942
130	Licensed Waste Management Facilities (Locations) Licence Number: 37163 Location: Land / Premises At, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Operator Name: Bennett D Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Expired Issued: 31st March 1999 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	A8NW (SW)	644	2	330083 344942
130	Licensed Waste Management Facilities (Locations) Licence Number: NP3290VM Location: Clwyd Breakers Ltd, Ruabon, Wrexham, Clwyd, Wrexham, LL14 6RG Operator Name: Clwyd Breakers Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Vehicle depollution facility Licence Status: Revoked Issued: 7th October 2010 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 2nd January 2019 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	646	2	330053 344957
130	Licensed Waste Management Facilities (Locations) Licence Number: 102006 Location: Gardden Industrial Estate, Ruabon, Wrexham, LL14 6RG Operator Name: Clwyd Breakers Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Vehicle depollution facility Licence Status: Modified Issued: 7th October 2010 Last Modified: 17th May 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	646	2	330053 344957

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	Licensed Waste Management Facilities (Locations) Licence Number: 37201 Location: Bangor Road, Johnstown, Wrexham, Clwyd, LL14 6ET Operator Name: Sita U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Co-disposal Landfill Sites Licence Status: Surrendered Issued: 30th April 1999 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd May 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	737	2	331110 345749
131	Licensed Waste Management Facilities (Locations) Licence Number: JP3294FV Location: Hafod Quarry Landfill, Wrexham, Clwyd, Wrexham, LL14 6ET Operator Name: Cory Environmental (Central) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Expired Issued: 8th March 2005 Last Modified: Not Supplied Expires: 8th October 2004 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	742	2	331114 345752
131	Licensed Waste Management Facilities (Locations) Licence Number: 37286 Location: Bangor Road, Johnstown, Wrexham, Clwyd, LL14 6ET Operator Name: Cory Environmental (Central) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: To PPC Issued: 8th March 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: BS8621IW Positional Accuracy: Located by supplier to within 10m	A14NE (E)	742	2	331114 345752
132	Licensed Waste Management Facilities (Locations) Licence Number: HP3694FJ Location: Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Operator Name: WRG (Midlands) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Effective Issued: 2nd November 2020 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	A8SW (S)	848	2	330077 344722
132	Licensed Waste Management Facilities (Locations) Licence Number: 37109 Location: Tatham Road, Ruabon, Wrexham, LL14 6RF Operator Name: Shanks Northern Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Closed Issued: 6th July 1994 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	A8SW (S)	848	2	330077 344722

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	Licensed Waste Management Facilities (Locations) Licence Number: BP3494FC Location: Gardden, Ruabon, Wrexham, Clwyd, LL14 6RF Operator Name: Shanks Midlands Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Effective Issued: 2nd May 1989 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	A8SW (S)	850	2	330087 344716
132	Licensed Waste Management Facilities (Locations) Licence Number: 37014 Location: Gardden, Tatham Road, Ruabon, Wrexham, LL14 6RF Operator Name: Shanks Midlands Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Licence Status: Closed Issued: 2nd May 1989 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	A8SW (S)	850	2	330087 344716
133	Licensed Waste Management Facilities (Locations) Licence Number: 37077 Location: Stryd Las, Johnstown, Wrexham, Clwyd, LL14 2AN Operator Name: Watkin Jones & Son Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Licence Status: Surrendered Issued: 22nd July 1993 Last Modified: 31st March 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 17th August 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	945	2	329878 346325
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	6	330395 345519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	Registered Landfill Sites Licence Holder: Shropshire Waste Management Ltd Licence Reference: EAWML37201 Site Location: Hafod Quarry, Ruabon, WREXHAM, Clwyd, LL14 6ET Licence Easting: 330760 Licence Northing: 345800 Operator Location: 107 Longden Road, SHREWSBURY, Shropshire, SY3 9DS Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site not yet started Dated: 30th April 1999 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bonded Asbestos Degradable/Non-Degradable Commercial Waste Degradable/Non-Degradable Household Waste Degradable/Non-Degradable Industrial Waste Inert Waste Metal Waste/Scrap Metal (Only As Small Admixtures With Permitted Wastes)) Prohibited Waste: Liquid Wastes Material With Haz.Code H 1 - Explosive Material With Haz.Code H 2 - Oxidising Material With Haz.Code H 3a - Highly Flammable Material With Haz.Code H 3b - Flammable Material With Haz.Code H 9 - Infectious Material With Haz.Code H10 - Teratogenic Material With Haz.Code H11 - Mutagenic Material With Haz.Code H12 - Can Release Toxic Gases Material With Haz.Code H13 - May Yield Leachates With Haz.Code Properties Material With Haz.Code H14 - Ecotoxic Other Waste/Waste Not Otherwise Specified Packaged Waste (Mixed/Unmixed) Or Bulk Loose Container Waste Special Waste (As In Epa 1990:S62 Of 1996 Regs) Other Than	A14NW (NE)	446	3	330760 345800
135	Registered Landfill Sites Licence Holder: Watkin Jones & Son Ltd Licence Reference: NOW-513-L (L75) Site Location: Stryd Las Landfill, Between Stryd Las & Gutter Hill, Johnstown, Wrexham, Clwyd Licence Easting: 329900 Licence Northing: 346150 Operator Location: Foundry Building, Johnstown, WREXHAM, Clwyd, LL57 4YH Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Site Closed Dated: 22nd July 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Gravels, Shales, Clays Hardcore And Rubble Max.Waste Permitted By Licence Top/Subsoil, Sand/Sandstone Uncontam.Bricks, Stone, Set Concrete Prohibited Waste: Biodegradable/Putrescible Waste Radioactive Wastes Waste In Drums	A17SE (NW)	789	3	329900 346150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	Registered Waste Treatment or Disposal Sites Licence Holder: I Haywards Ltd Licence Reference: NOW-529-L Site Location: Gardden Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6RG Operator Location: Gardden Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6RG Authority: Environment Agency Wales, North Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 31st March 1999 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste Batteries Electrical Cable Electrical Equipment Engines Ferrous Metals Ferrous Swarf Machinery Max.Storage In Licence Max.Waste Permitted By Licence Non-Ferrous Metals Non-Ferrous Swarf Scrap Vehicles Structural Timber/Telegraph Poles/Railway Sleepers Prohibited Waste Liquid Waste N.O.S. Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S.	A8NW (SW)	460	3	330100 345150
137	Registered Waste Treatment or Disposal Sites Licence Holder: D Bennett - Clwyd Breakers Licence Reference: NOW-531-L Site Location: Gardden Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6RG Operator Location: Gardden Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6RG Authority: Environment Agency Wales, North Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 31st March 1999 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Batteries Engines Ferrous Metals Max.Waste Permitted By Licence Non-Ferrous Metals Scrap Vehicles Structural Timber/Telegraph Poles/Railway Sleepers Transmission Units Prohibited Waste Liquid Waste N.O.S. Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S.	A7NE (SW)	645	3	330050 344960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A13SE (NW)	0	1	330395 345519
138	BGS Recorded Mineral Sites Site Name: Vauxhall Colliery Location: Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185620 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	360	1	330728 345349
139	BGS Recorded Mineral Sites Site Name: Wharf Cottage Sand Pit Location: Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185619 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18SE (N)	411	1	330430 345937
140	BGS Recorded Mineral Sites Site Name: Hafod Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4744 Type: Opencast Status: Dormant Operator: Cory Environmental Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A14NW (E)	473	1	330880 345530
140	BGS Recorded Mineral Sites Site Name: Hafod Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4744 Type: Opencast Status: Dormant Operator: Cory Environmental Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Ruabon Marl Formation) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (E)	473	1	330880 345530
141	BGS Recorded Mineral Sites Site Name: Brandie Pits Location: Stryt Las, Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 172101 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	579	1	329814 345631

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	BGS Recorded Mineral Sites Site Name: Hafod Red Brick Works Clay Pits Location: Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185621 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (E)	599	1	330983 345690
143	BGS Recorded Mineral Sites Site Name: Brandie Pits, Engine Pit Location: Stryt Las, Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 172102 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	628	1	329762 345622
144	BGS Recorded Mineral Sites Site Name: Hafod Red Brick Works Clay Pits Location: Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185622 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (E)	651	1	331058 345510
145	BGS Recorded Mineral Sites Site Name: Terra-Cotta Brick & Tile Works Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185623 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	689	1	330345 344825
146	BGS Recorded Mineral Sites Site Name: Ruabon Brick & Terra Cotta Works' Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185809 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	694	1	329962 344960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	BGS Recorded Mineral Sites Site Name: Ruabon Brick & Terra Cotta Works' Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185654 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	747	1	329833 345007
148	BGS Recorded Mineral Sites Site Name: Tatham Brick & Terra Cotta Works Location: Ruabon, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185655 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	796	1	330164 344747
149	BGS Recorded Mineral Sites Site Name: Brandie Pits, No. 6 Pit Location: Stryt Las, Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 172105 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (W)	846	1	329565 345744
150	BGS Recorded Mineral Sites Site Name: Gardden Hall Location: Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185660 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	915	1	329468 345501
151	BGS Recorded Mineral Sites Site Name: Brandie Pits, Park No. 1 Pit Location: Stryt Las, Rhosllanerchrugog, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 172103 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 100m	A12NW (W)	986	1	329400 345600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	BGS Recorded Mineral Sites Site Name: Gardden Lodge Colliery Location: Penrycae, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 185653 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation And Pennine Middle Coal Measures Formation (Undifferentiated) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	998	1	329465 345119
	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 (NW)	0	7	330395 345519
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (NW)	0	-	330395 345519
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	230	1	330161 345589
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	67	1	330474 345525
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	245	1	330146 345451
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	45	1	330452 345529
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	206	1	330538 345353
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	236	1	330295 345745
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	330395 345519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 (NW)	0	1	330395 345519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	Contemporary Trade Directory Entries Name: A E Sewing Machines Location: Unit 1 Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Sewing Machines - Industrial Status: Active Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	84	-	330306 345478
153	Contemporary Trade Directory Entries Name: Sci-Mart Location: Unit 1, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Scientific Apparatus & Instruments - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	85	-	330306 345478
153	Contemporary Trade Directory Entries Name: Celantic North Wales Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Marine Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	85	-	330306 345478
154	Contemporary Trade Directory Entries Name: Ceram Tec Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HY Classification: Ceramic Manufacturers, Supplies & Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	92	-	330470 345594
155	Contemporary Trade Directory Entries Name: Steni Uk Ltd Location: Unit 1-4, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	107	-	330509 345483
155	Contemporary Trade Directory Entries Name: Fry Fresh Edible Oils Ltd Location: Wrexham, LL14 6HA Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	124	-	330531 345523
156	Contemporary Trade Directory Entries Name: Portec Rail Products Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6UY Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	141	-	330442 345376
157	Contemporary Trade Directory Entries Name: Link Powder Coating & Metal Finishing Ltd Location: Unit 8a, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Powder Coatings Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	157	-	330538 345425
157	Contemporary Trade Directory Entries Name: A W Services Northwest Ltd Location: Unit 8a, Vauxhall Industrial Estate, Ruabon, WREXHAM, Clwyd, LL14 6HA Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	160	-	330544 345429
158	Contemporary Trade Directory Entries Name: Enviroclear Site Services Ltd Location: Unit 12, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	157	-	330376 345356
158	Contemporary Trade Directory Entries Name: Danisco Pack Langfern Location: Unit 13 Vauxhall Indust Est, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Boxes & Cartons Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (S)	157	-	330376 345356
158	Contemporary Trade Directory Entries Name: Environclear Site Services Ltd Location: Unit 12, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	157	-	330376 345356

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	Contemporary Trade Directory Entries Name: Clwyd Spares & Repairs Ltd Location: Unit 13, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	172	-	330337 345347
159	Contemporary Trade Directory Entries Name: Key Gas Wales Ltd Location: Hafod Road, Hafod Ind Est, Johnstown, Wrexham, Clwyd, LL14 2AT Classification: Gas Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (W)	158	-	330226 345540
160	Contemporary Trade Directory Entries Name: Brother Industries Location: RUABON, WREXHAM, LL14 6HA Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	182	-	330227 345418
161	Contemporary Trade Directory Entries Name: Williams Location: Unit 9, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	224	-	330527 345323
162	Contemporary Trade Directory Entries Name: Lafarge Aggregates Location: Vauxhall Ind Est, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	226	-	330327 345294
163	Contemporary Trade Directory Entries Name: G H A Coaches Location: Unit 11, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	229	-	330419 345284
163	Contemporary Trade Directory Entries Name: G H A Coaches Ltd Location: Unit 11, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	229	-	330419 345284
163	Contemporary Trade Directory Entries Name: Advanced Cooling Systems Ltd Location: Unit A3 Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Manually positioned to the address or location	A13SE (S)	232	-	330423 345281
163	Contemporary Trade Directory Entries Name: Vale Of Llangollen Travel Ltd Location: Unit 11, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	242	-	330414 345270
163	Contemporary Trade Directory Entries Name: Thompson Coating Solutions Ltd Location: Unit 2 Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Coating Specialists Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	243	-	330414 345270
164	Contemporary Trade Directory Entries Name: Flinting Ink Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HU Classification: Printing Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	324	-	330409 345189
165	Contemporary Trade Directory Entries Name: Manutech (Europe) Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	421	-	330227 345121

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	Contemporary Trade Directory Entries Name: Clwyd Screen Prints Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Screen Process Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	421	-	330227 345121
165	Contemporary Trade Directory Entries Name: Sci Mart Location: Unit 2, Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	421	-	330227 345121
166	Contemporary Trade Directory Entries Name: Advance Spares Location: Unit 21, Vauxhall Industrial Estate, Wrexham, LL14 6HA Classification: Nuts, Bolts & Fixings Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	436	-	330440 345078
166	Contemporary Trade Directory Entries Name: Advance Spares Location: Unit 21, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Nuts, Bolts & Fixings Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	436	-	330440 345078
167	Contemporary Trade Directory Entries Name: A E Sewing Machines Location: Unit 20a, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Sewing Machines - Industrial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	460	-	330395 345053
167	Contemporary Trade Directory Entries Name: A E Sewing Machines Location: Unit 1, Vauxhall Court, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Sewing Machines - Industrial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	460	-	330395 345053
167	Contemporary Trade Directory Entries Name: Sutures Ltd Location: Unit 19, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Medical Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	471	-	330357 345042
167	Contemporary Trade Directory Entries Name: A C S Air Conditioning Location: A3, UNIT 19, VAUXHALL INDUSTRIAL ESTATE, RUABON, WREXHAM, LL14 6HA Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	471	-	330357 345042
167	Contemporary Trade Directory Entries Name: Advance Enterprises Location: Unit 2, Vauxhall Court, Vauxhall Industrial Estate, Wrexham, LL14 6HA Classification: Sewing Machines - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	478	-	330395 345035
168	Contemporary Trade Directory Entries Name: Wrexham Sharpening Services Location: Plas yn Clawdd, Stryt Las, Johnstown, Wrexham, LL14 2AN Classification: Tool Sharpening, Repairing & Servicing Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	463	-	330030 345826
169	Contemporary Trade Directory Entries Name: Elite Graphics UK Ltd Location: Unit 18, Vauxhall Industrial Estate, Ruabon, Wrexham, LL14 6HA Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	467	-	330271 345059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Contemporary Trade Directory Entries Name: Belle Blinds & Curtains Location: 36, Bangor Road, Johnstown, Wrexham, Clwyd, LL14 2SP Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	512	-	330311 346034
171	Contemporary Trade Directory Entries Name: Rockrite Ltd Location: Vauxhall Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6HA Classification: Mortar Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	538	-	330419 344974
172	Contemporary Trade Directory Entries Name: Travis Perkins Ruabon Wrexham Location: TRAVIS PERKINS, RUABON ROAD, RUABON, WREXHAM, LL14 6RA Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	565	-	330213 344974
173	Contemporary Trade Directory Entries Name: I Hayward Ltd Location: GARDEN INDUSTRIAL ESTATE, RUABON, WREXHAM, LL14 6RG Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	616	-	330039 345001
174	Contemporary Trade Directory Entries Name: Clwyd Breakers Ltd Location: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	640	-	330100 344939
174	Contemporary Trade Directory Entries Name: C J C Motor Services Location: Unit 2, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RE Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	642	-	330074 344950
174	Contemporary Trade Directory Entries Name: C S Paint & Body Repairs Location: Unit 2, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	658	-	330058 344940
175	Contemporary Trade Directory Entries Name: Tartan Domestic Location: High Street, Johnstown, Wrexham, Clwyd, LL14 2SH Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	650	-	330108 346116
176	Contemporary Trade Directory Entries Name: New Hall Independant Hospital Location: New Hall, New Hall Road, Ruabon, Wrexham, Clwyd, LL14 6HB Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	651	-	330873 345058
176	Contemporary Trade Directory Entries Name: New Hall Independent Hospital Location: New Hall, New Hall Road, Ruabon, Wrexham, Clwyd, LL14 6HB Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	666	-	330884 345047
177	Contemporary Trade Directory Entries Name: Paul Bell Location: Park St, Johnstown, Wrexham, Clwyd, LL14 2AB Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	655	-	330046 346088
178	Contemporary Trade Directory Entries Name: Wrexham Motor Co Location: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	707	-	330099 344865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	Contemporary Trade Directory Entries Name: Ainscough Group Ltd Location: Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	718	-	330074 344864
178	Contemporary Trade Directory Entries Name: Bodyworx Location: Unit 2 Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (SW)	742	-	330064 344842
178	Contemporary Trade Directory Entries Name: Johnstown & Ruabon Location: Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Tyre Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (SW)	742	-	330091 344830
178	Contemporary Trade Directory Entries Name: Wrexham Electrical Repairs Ltd Location: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Electric Motor Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (SW)	743	-	330091 344830
179	Contemporary Trade Directory Entries Name: Pareck Ltd Location: High St, Ruabon, Wrexham, Clwyd, LL14 6BL Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (NW)	713	-	330098 346180
180	Contemporary Trade Directory Entries Name: Cassini Blinds Wrexham Chester & Northwich Location: 3, Park Mews, Park Street, Johnstown, Wrexham, Clwyd, LL14 2AF Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	716	-	329968 346110
180	Contemporary Trade Directory Entries Name: Bellini Blinds Wrexham Location: 3, Park Mews, Park Street, Johnstown, Wrexham, LL14 2AF Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	716	-	329967 346109
181	Contemporary Trade Directory Entries Name: Bromfield Garage Location: Moreton Street, Johnstown, Wrexham, LL14 2AA Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	776	-	329958 346176
181	Contemporary Trade Directory Entries Name: Bromfield Garage Location: Moreton Street, Johnstown, Wrexham, LL14 2AA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	776	-	329958 346176
181	Contemporary Trade Directory Entries Name: Bromfield Garage Location: Moreton Street, Johnstown, Wrexham, Clwyd, LL14 2AA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	777	-	329958 346177
182	Contemporary Trade Directory Entries Name: Bridge Street Location: Brandie View, Stryt Las, Rhosllanerchrugog, Wrexham, Clwyd, LL14 2HD Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	781	-	329640 345765
183	Contemporary Trade Directory Entries Name: Bryn Melyn Ltd Location: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	788	-	330034 344806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	Contemporary Trade Directory Entries Name: Eco Operative Location: Maes Isaf, Johnstown, Wrexham, LL14 1UU Classification: Heating Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	814	-	330427 346340
185	Contemporary Trade Directory Entries Name: New Dubs Location: Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Classification: Classic Car Specialists Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	823	-	330054 344758
185	Contemporary Trade Directory Entries Name: Johnstown & Ruabon Tyres Location: Wrexham, LL14 6RG Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	846	-	330044 344737
186	Contemporary Trade Directory Entries Name: Ronor Launderette Location: Maelor Road, Johnstown, Wrexham, Clwyd, LL14 1NB Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	916	-	329953 346335
186	Contemporary Trade Directory Entries Name: N S Cleaning Services Ltd Location: 19 Maelor Rd, Johnstown, Wrexham, Clwyd, LL14 1NB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	949	-	329909 346349
187	Contemporary Trade Directory Entries Name: Ainscough Group Ltd Location: Gardden View, Ruabon, Wrexham, Clwyd, LL14 6PS Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	929	-	330344 344584
188	Contemporary Trade Directory Entries Name: S T Jones Ltd Location: Gutter Hill, Johnstown, Wrexham, Clwyd, LL14 1LT Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	954	-	329894 346346
189	Contemporary Trade Directory Entries Name: Pro Control Location: 22, Gardden Road, Rhosllanerchrugog, Wrexham, Clwyd, LL14 2EW Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	961	-	329654 346154
189	Contemporary Trade Directory Entries Name: Pro Control Pest Services Location: 20, Gardden Road, Rhosllanerchrugog, WREXHAM, Clwyd, LL14 2EN Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	1000	-	329636 346192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
190	Ancient Woodland Name: Not Supplied Reference: 36790 Area(m ²): 3231.93 Type: Restored Ancient Woodland Site	A8NW (SW)	426	2	330168 345145
191	Ancient Woodland Name: Not Supplied Reference: 31876 Area(m ²): 5182.72 Type: Ancient and Semi-Natural Woodland	A12NE (W)	471	2	329915 345580
192	Ancient Woodland Name: Not Supplied Reference: 31872 Area(m ²): 14323.19 Type: Ancient and Semi-Natural Woodland	A8NW (SW)	474	2	330059 345166
193	Ancient Woodland Name: Not Supplied Reference: 36791 Area(m ²): 4223.29 Type: Restored Ancient Woodland Site	A9NW (SE)	502	2	330754 345150
194	Ancient Woodland Name: Not Supplied Reference: 31877 Area(m ²): 11727.03 Type: Ancient and Semi-Natural Woodland	A12NW (W)	684	2	329708 345638
195	Ancient Woodland Name: Not Supplied Reference: 31871 Area(m ²): 30451.88 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	759	2	329881 344943
196	Sites of Special Scientific Interest Name: Stryt Las Ar Hafod Multiple Areas: Y Total Area (m2): 697177.17 Source: Natural Resources Wales Reference: 137631wsp Designation Details: Biological Designation Date: 27th November 1997 Date Type: Notified	A13SE (E)	179	2	330586 345495
197	Special Areas of Conservation Name: Johnstown Newt Sites Multiple Areas: Y Total Area (m2): 697177.17 Source: Natural Resources Wales Reference: Uk0030173 Status: Designated	A13SE (E)	179	2	330586 345495

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department Natural Resources Wales North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department Wrexham County Borough Council - Public Protection Department Denbighshire County Council - Public Protection Department	December 2008 June 2020 October 2008 October 2017 October 2017 September 2017	 Annually Annually Annually Annual Rolling Update
Discharge Consents Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	April 2023 August 2014 January 2023	Quarterly Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Midlands Region Environment Agency - Welsh Region	March 2013 March 2013	
Integrated Pollution Controls Environment Agency - Midlands Region Environment Agency - Welsh Region	January 2009 January 2009	
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Environment Agency - Midlands Region Natural Resources Wales	January 2021 January 2023 January 2023	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Wrexham County Borough Council - Environmental Health Department Denbighshire County Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department	April 2014 December 2014 June 2008 October 2014 September 2008	Variable Variable Not Applicable Variable Not Applicable
Local Authority Pollution Prevention and Controls Wrexham County Borough Council - Environmental Health Department Denbighshire County Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department	April 2014 December 2014 June 2008 October 2014 September 2008	Annual Rolling Update Annual Rolling Update Not Applicable Annually Not Applicable
Local Authority Pollution Prevention and Control Enforcements Wrexham County Borough Council - Environmental Health Department Denbighshire County Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) - Environmental Health Department Shropshire Council - Environmental Health Department Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department	April 2014 December 2014 June 2008 October 2014 September 2008	Variable Variable Not Applicable Variable Not Applicable
Nearest Surface Water Feature Ordnance Survey	April 2023	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015 July 2015	

Agency & Hydrological	Version	Update Cycle
Prosecutions Relating to Controlled Waters Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Midlands Region Environment Agency - Welsh Region	January 2015 June 2016 June 2016	As notified As notified
Substantiated Pollution Incident Register Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area Natural Resources Wales	April 2023 April 2023 January 2021 January 2023	Quarterly Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	April 2023 January 2023	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Midlands Region Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2017 October 2022	
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	April 2023	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Midlands Region Environment Agency - Welsh Region	January 2009 January 2009	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area Natural Resources Wales	January 2023 January 2023 January 2023 October 2021	Quarterly Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Natural Resources Wales Environment Agency Wales - North Area	January 2023 January 2023 January 2023 July 2021	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Denbighshire County Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre Wrexham County Borough Council	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Denbighshire County Council - Environmental Health Department North Shropshire District Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council) - Environmental Health Department Shropshire County Council (now part of Shropshire Council) - Shropshire Records And Research Centre Wrexham County Borough Council	October 2018 October 2018 October 2018 October 2018 October 2018	
Registered Landfill Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Midlands Region - Upper Severn Area Environment Agency - Midlands Region - West Area Environment Agency Wales - North Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements North Shropshire District Council (now part of Shropshire Council) Denbighshire County Council - Planning Department Shropshire Council - Planning Department Wrexham County Borough Council - Planning Department Shropshire County Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council)	February 2009 February 2016 February 2016 February 2016 March 2009 October 2008	Not Applicable Variable Variable Variable Annual Rolling Update Not Applicable
Planning Hazardous Substance Consents North Shropshire District Council (now part of Shropshire Council) Denbighshire County Council - Planning Department Shropshire Council - Planning Department Wrexham County Borough Council - Planning Department Shropshire County Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council)	February 2009 February 2016 February 2016 February 2016 March 2009 October 2008	Not Applicable Variable Variable Variable Annual Rolling Update Not Applicable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	February 2023	Bi-Annually

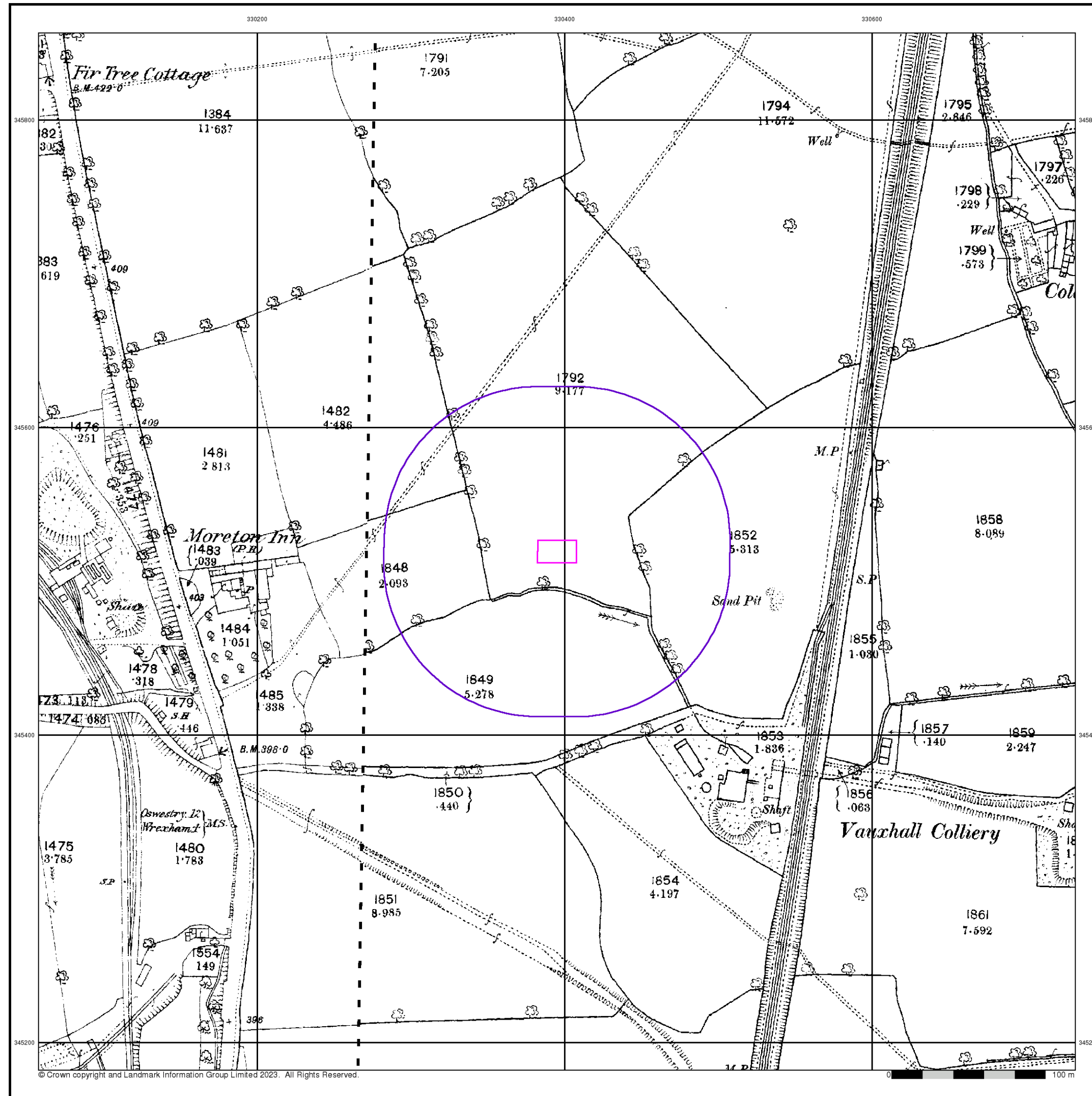
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	April 2023	Bi-Annually
Areas of Adopted Green Belt Denbighshire County Council North Shropshire District Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council) Shropshire Council - Planning Department Wrexham County Borough Council	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Denbighshire County Council North Shropshire District Council (now part of Shropshire Council) Oswestry Borough Council (now part of Shropshire Council) Shropshire Council - Planning Department Wrexham County Borough Council	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England Natural Resources Wales	April 2023 April 2023	Bi-Annually Bi-Annually
Environmentally Sensitive Areas Natural England The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017 January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Denbighshire County Council Natural England Wrexham County Borough Council	March 2023 March 2023 March 2023	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2023	Bi-Annually
National Parks Natural Resources Wales Natural England	February 2018 February 2018	Annually Bi-Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural Resources Wales	March 2023	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2023	Bi-Annually
Special Areas of Conservation Natural Resources Wales	April 2023	Bi-Annually
Special Protection Areas Natural Resources Wales	April 2023	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	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
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.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	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
-	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.



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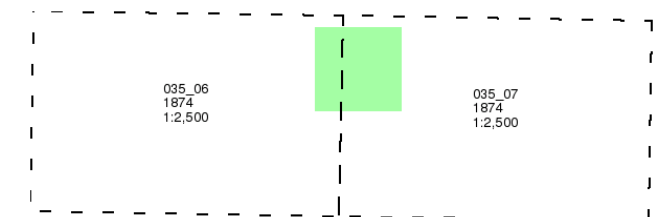
Denbighshire

Published 1874

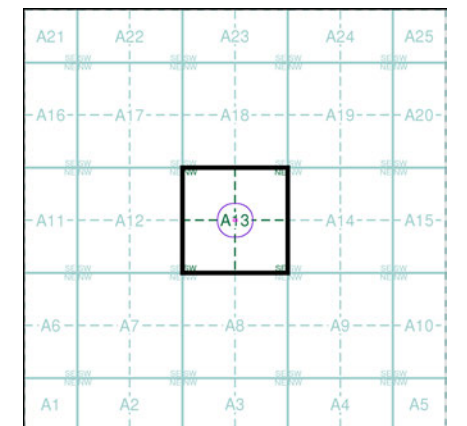
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

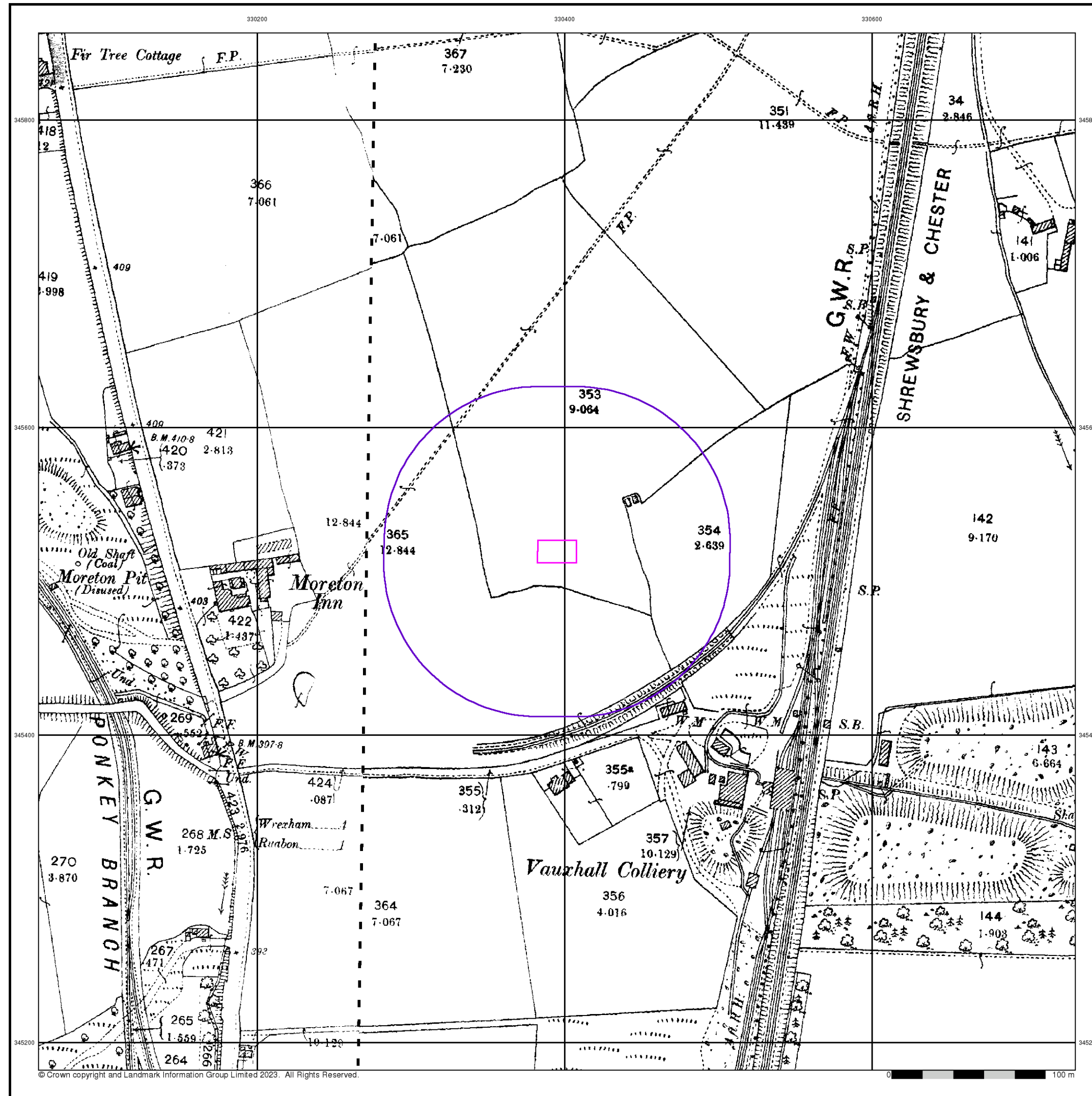


Order Details

Order Number: 312222700_1_1
Customer Ref: IN23886
National Grid Reference: 330400, 345520
Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA



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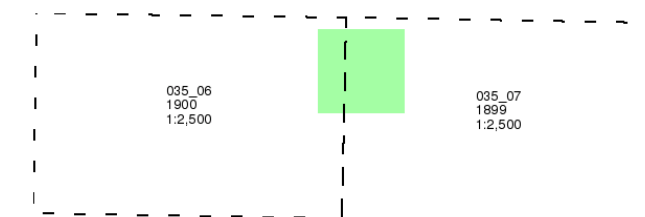
Denbighshire

Published 1899 - 1900

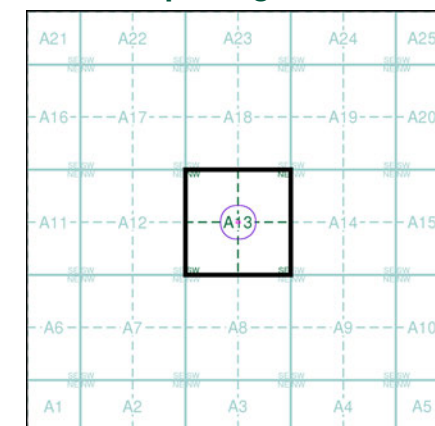
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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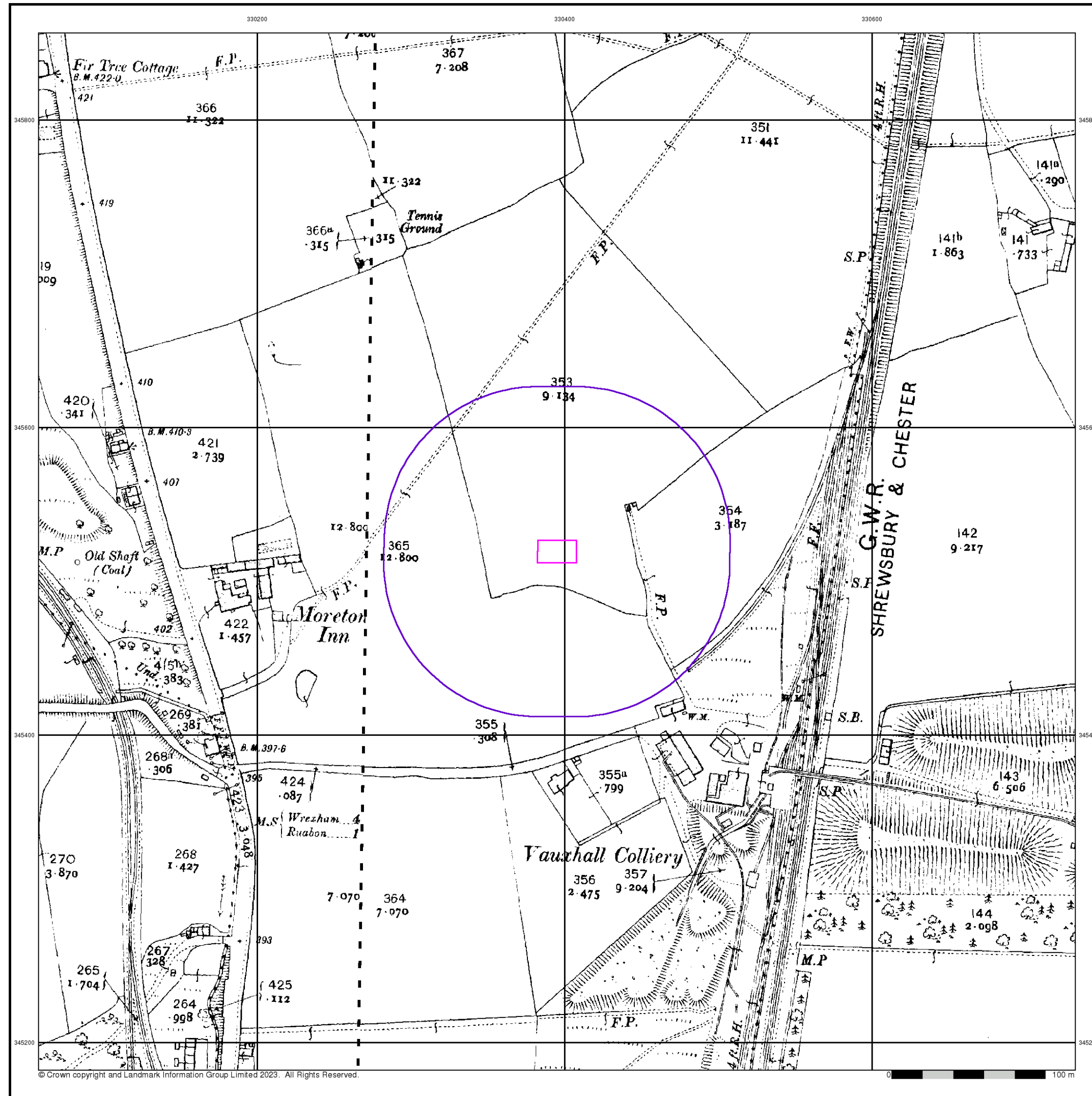
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Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA

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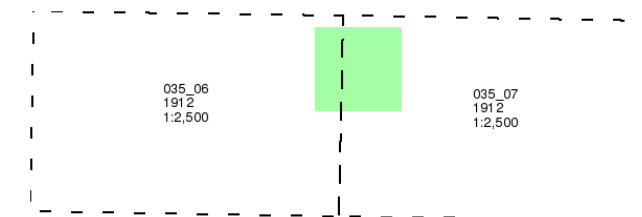
Denbighshire

Published 1912

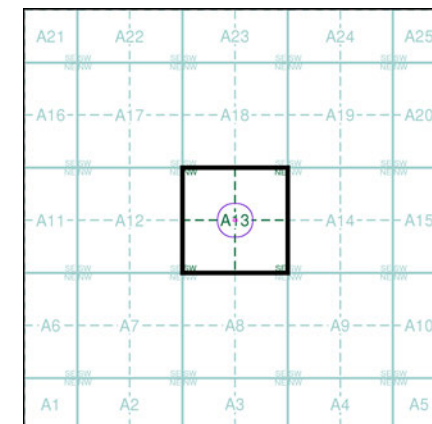
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

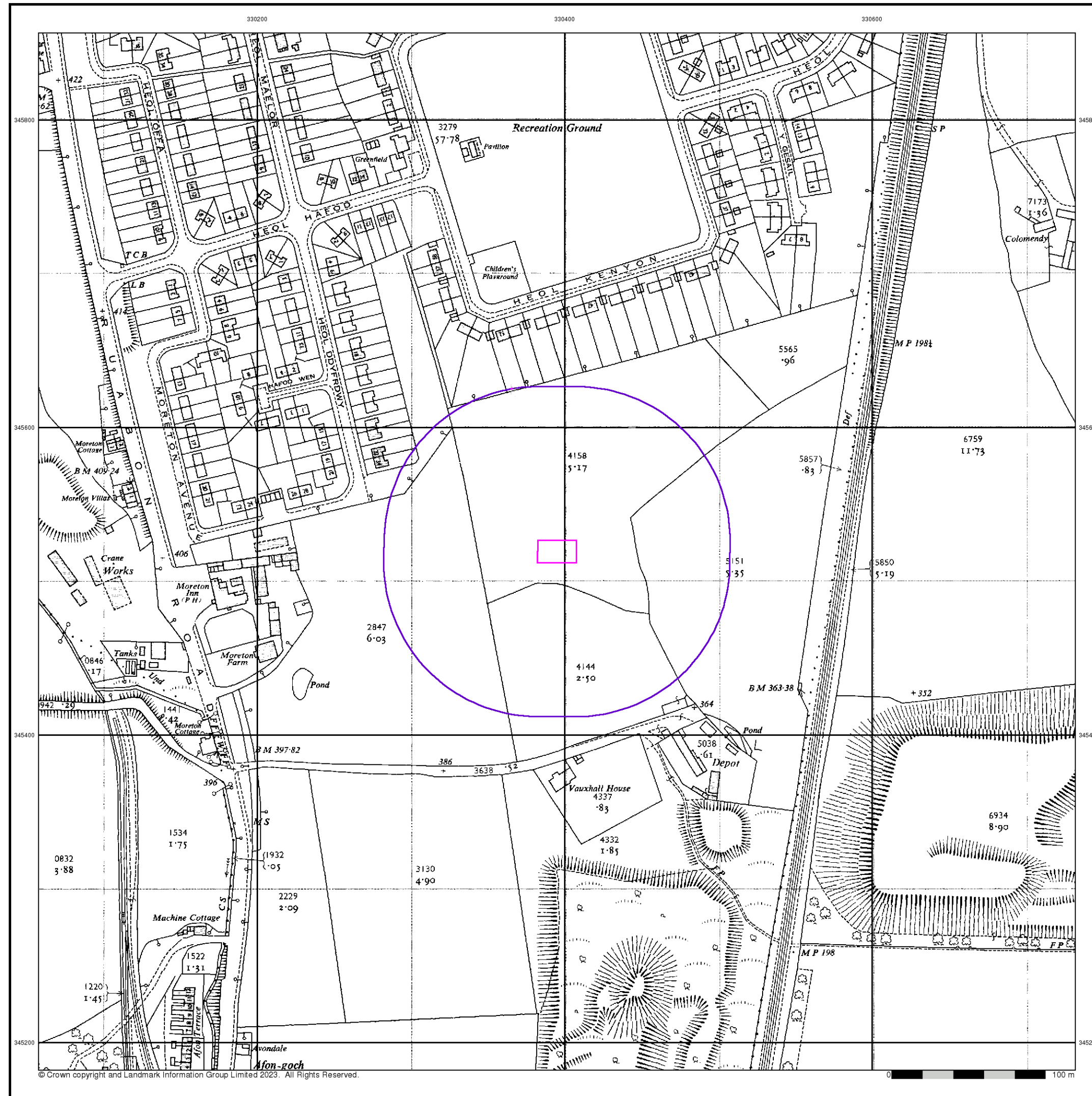
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Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA

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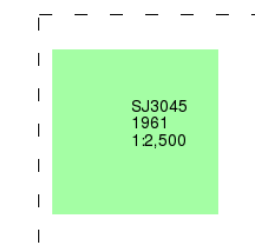
Ordnance Survey Plan

Published 1961

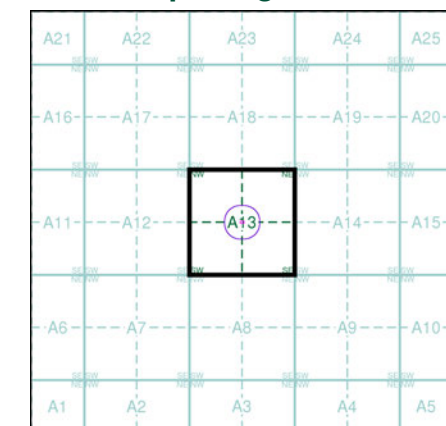
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

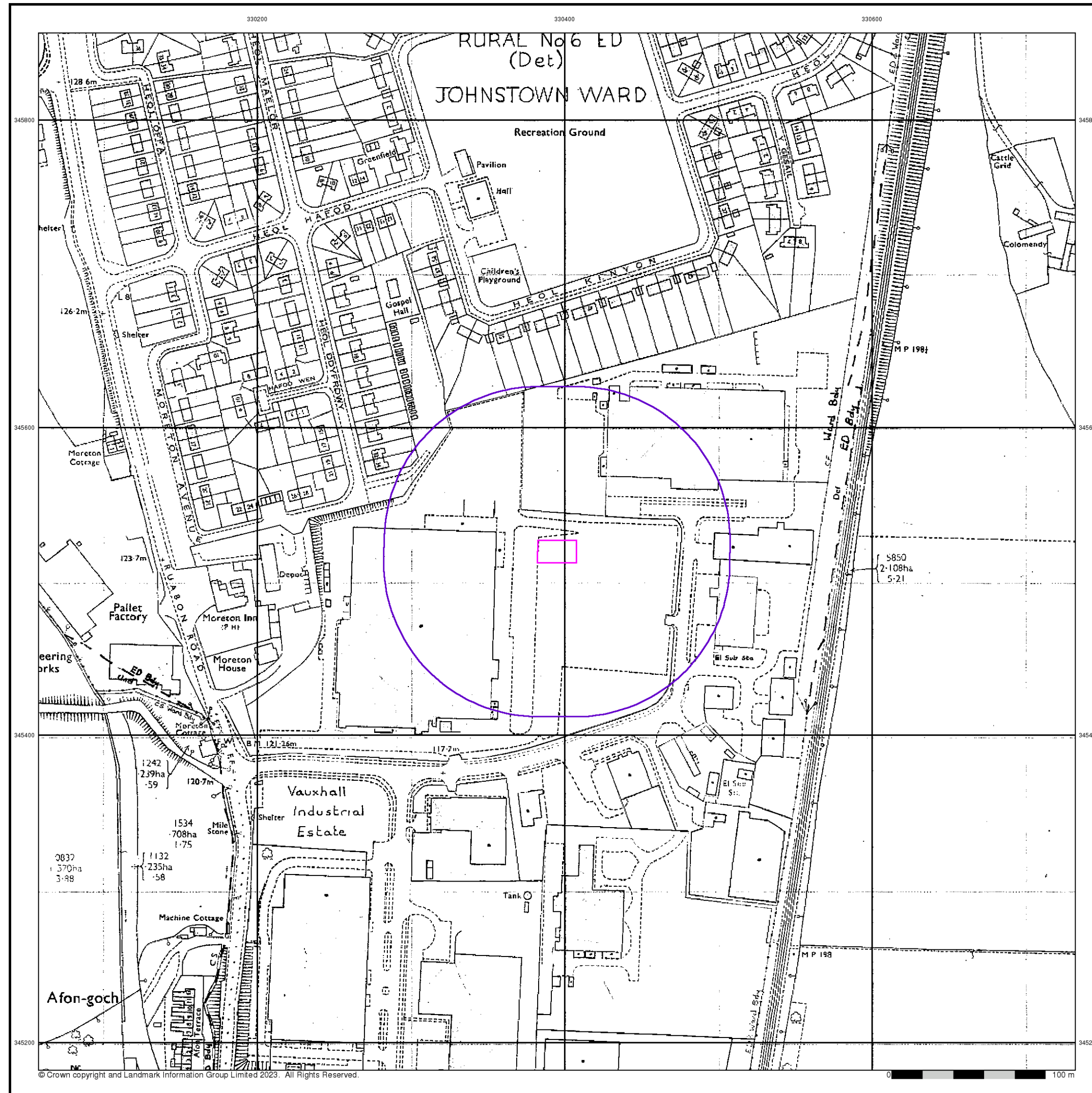


Order Details

Order Number: 31222700_1_1
Customer Ref: IN23886
National Grid Reference: 330400, 345520
Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA



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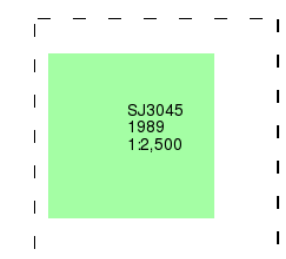
Additional SIMs

Published 1989

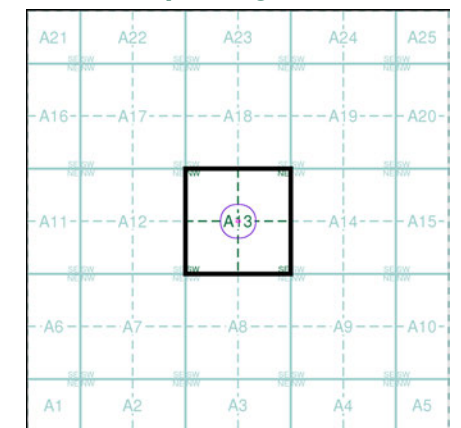
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

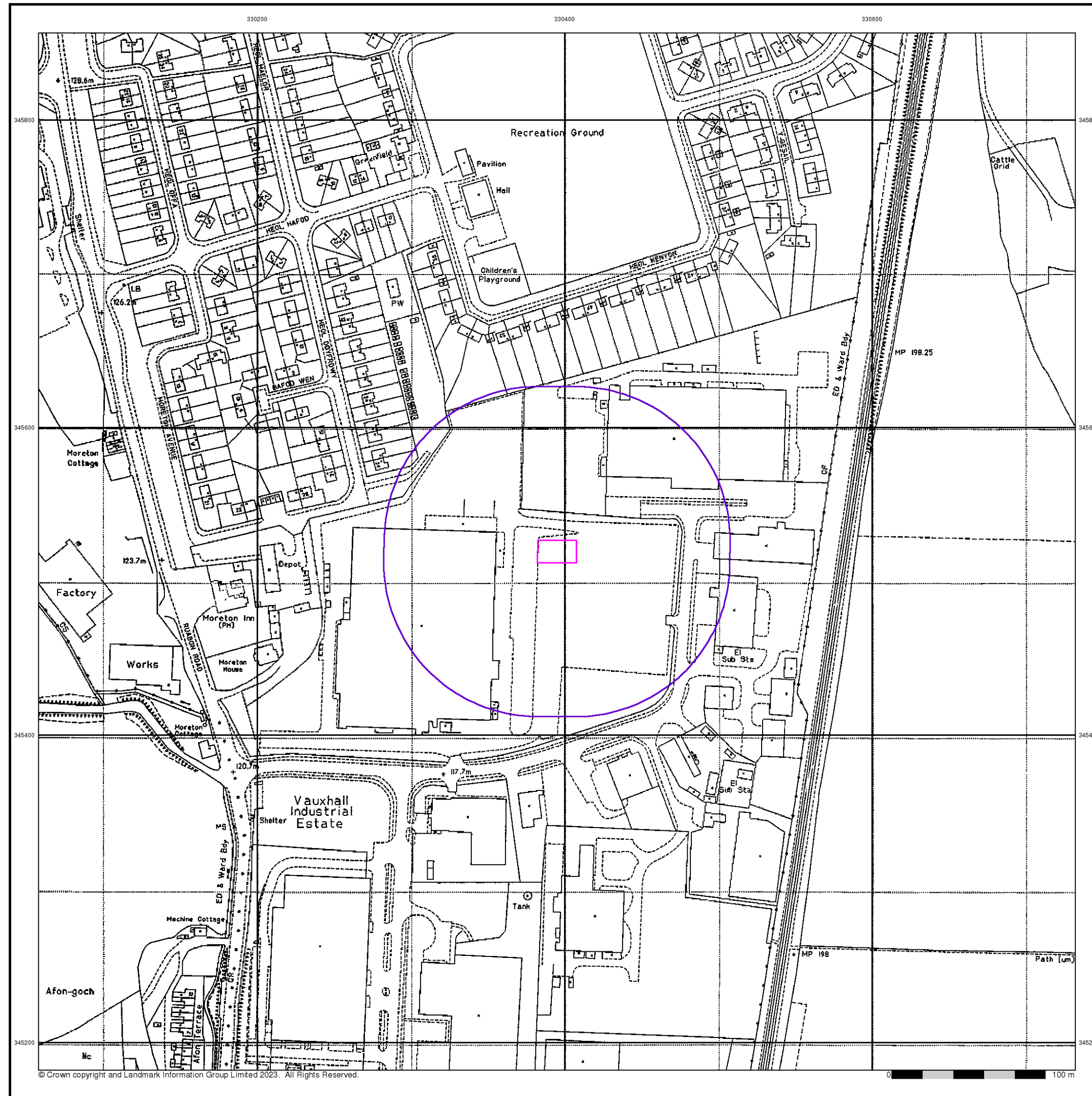


Order Details

Order Number: 31222700_1_1
Customer Ref: IN23886
National Grid Reference: 330400, 345520
Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA



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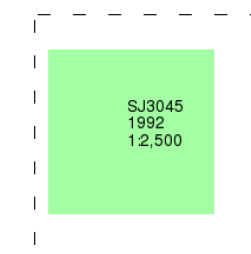
Large-Scale National Grid Data

Published 1992

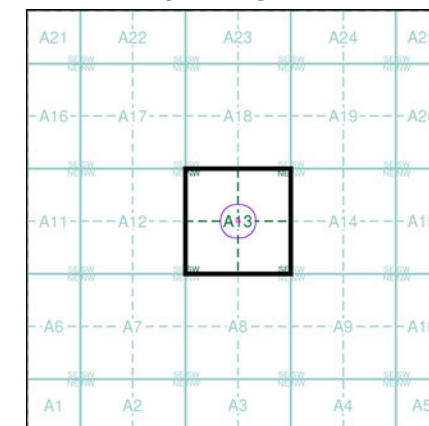
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded S M cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 31222700_1_1
Customer Ref: IN23886
National Grid Reference: 330400, 345520
Slice: A
Site Area (Ha): 0.04
Search Buffer (m): 100

Site Details

Brothers Industries, Vauxhall Industrial Estate, Ruabon, WREXHAM, LL14 6HA

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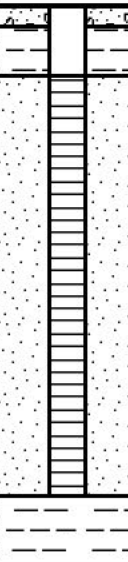
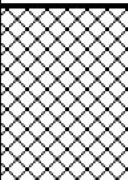
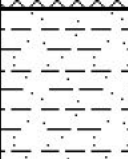
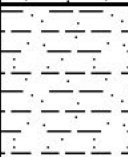
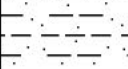
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ATTACHMENT THREE:
BOREHOLE LOGS

Borehole Log BH001

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Stoke Mandeville, HP22 5BL
Tel: 01296 739400 Email: consultants@subadra.com

Project Name	IN23886 Brothers Industries	Coordinates	
Date	13th June 2023	Ground Level	
Site Engineer	Alex Akeroyd	Drilling Method	Terrier

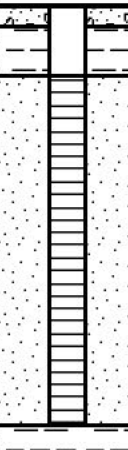
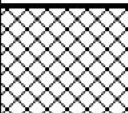
Depth (m)	Well	Water Level	Log	Sample	Laboratory Analysis	Headspace (ppm)	SPT 'N' or Su (kPa)	Description
1		At-Rest 1.10m Strike 2.30m		S1/0.40 - 0.40	Asb/ CLEA&Cr(VI)		N = 14	0.00m - 1.30m Made Ground Asphalt overlying brown and grey gravelly sandy CLAY with pockets of sand. Includes rare red brick fragments.
2				SPT1/1.00 - 1.45 S2/1.20 - 1.20	BTEX&M/ PAH			1.30m - 2.40m Glaciofluvial Deposits MEDIUM DENSE brown occasionally yellow brown clayey SAND. Frequent fine to coarse gravel.
3				S3/2.30 - 2.30	TOC		N = 26	2.40m - 4.00m Till, Devensian - Diamicton MEDIUM DENSE grey brown very clayey SAND. Occasional fine to coarse gravel. Includes pockets of sandy clay.
4				S4/4.00 - 4.00				Borehole terminated at 4.00m
5								
6								
7								
8								
9								
10								

 Prism.NET www.prismerp.co.uk	Well Diameter	50mm	Depth of Borehole	4.00m
	Well Casing Length	0.50m	Depth to Groundwater	1.10m
	Well Screen Length	3.00m	Page	One of One

Borehole Log BH002

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Stoke Mandeville, HP22 5BL
Tel: 01296 739400 Email: consultants@subadra.com

Project Name	IN23886 Brothers Industries	Coordinates	
Date	13th June 2023	Ground Level	
Site Engineer	Alex Akeroyd	Drilling Method	Terrier

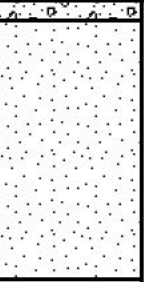
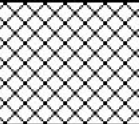
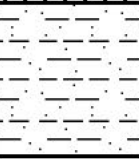
Depth (m)	Well	Water Level	Log	Sample	Laboratory Analysis	Headspace (ppm)	SPT 'N' or Su (kPa)	Description
1		At-Rest 0.80m Strike 2.00m		S1/0.40 - 0.40	BTEX&M			0.00m - 0.90m Made Ground Asphalt overlying brown and grey gravelly sandy CLAY with pockets of sand. Includes rare red brick fragments.
				S2/1.00 - 1.00	PAH			0.90m - 1.90m Glaciofluvial Deposits MEDIUM DENSE brown clayey SAND. Occasional fine to coarse gravel.
2				S3/2.00 - 2.00 SPT1/2.00 - 2.45	TOC		N = 19 Su = 150	1.90m - 3.20m Till, Devensian - Diamicton VERY STIFF grey brown sandy CLAY. Occasional fine to coarse gravel. Terminated on hard natural ground.
3				S4/3.00 - 3.00 SPT2/3.00 - 3.20	TPH CWG		Su = 150 / N = 50	Borehole terminated at 3.20m
4								
5								
6								
7								
8								
9								
10								

 Prism.NET www.prismerp.co.uk	Well Diameter	50mm	Depth of Borehole	3.20m
	Well Casing Length	0.50m	Depth to Groundwater	0.80m
	Well Screen Length	2.50m	Page	One of One

Borehole Log BH003

SUBADRA
Environmental - Geotechnical - Laboratory - Foundations
13 Triangle Business Park, Stoke Mandeville, HP22 5BL
Tel: 01296 739400 Email: consultants@subadra.com

Project Name	IN23886 Brothers Industries	Coordinates	
Date	13th June 2023	Ground Level	
Site Engineer	Alex Akeroyd	Drilling Method	Terrier

Depth (m)	Well	Water Level	Log	Sample	Laboratory Analysis	Headspace (ppm)	SPT 'N' or Su (kPa)	Description
1		Strike 1.50m		S1/0.40 - 0.40	Asb/ CLEA&Cr(VI)/ TPH CWG PAH		N = 18	0.00m - 0.90m Made Ground Asphalt overlying brown and grey gravelly sandy CLAY with pockets of sand. Includes rare red brick fragments.
				S2/0.90 - 0.90 SPT1/1.00 - 1.45				0.90m - 2.00m Glaciofluvial Deposits MEDIUM DENSE TO DENSE brown clayey SAND. Frequent fine to coarse gravel. Terminated on hard natural ground.
2				S3/2.00 - 2.00 SPT2/2.00 - 2.20	BTEX&M		N = 50	Borehole terminated at 2.00m
3								
4								
5								
6								
7								
8								
9								
10								

 Prism.NET www.prismerp.co.uk	Well Diameter		Depth of Borehole	2.00m
	Well Casing Length		Depth to Groundwater	
	Well Screen Length		Page	One of One

Borehole Log BH004

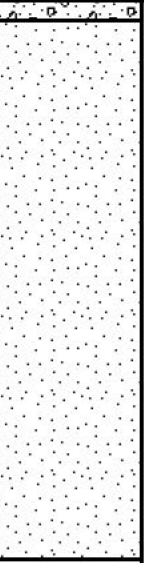
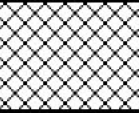
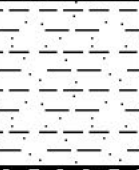
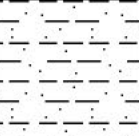
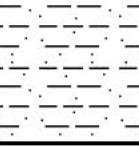
SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Tel: 01296 739400 Email: consultants@subadra.com

Project Name	IN23886 Brothers Industries	Coordinates	
Date	13th June 2023	Ground Level	
Site Engineer	Alex Akeroyd	Drilling Method	Terrier

Depth (m)	Well	Water Level	Log	Sample	Laboratory Analysis	Headspace (ppm)	SPT 'N' or Su (kPa)	Description
1		Strike 1.50m		S1/0.40 - 0.40 S2/0.70 - 0.70	BTEX&M/ CLEA&Cr(VI) PAH			0.00m - 0.80m Made Ground Asphalt overlying brown and grey clayey sandy gravel.
2				S3/1.50 - 1.50	TPH CWG			0.80m - 2.00m Glaciofluvial Deposits MEDIUM DENSE brown clayey SAND. Frequent fine to coarse gravel.
3				SPT1/2.00 - 2.45			N = 19 Su = 100	2.00m - 4.00m Till, Devensian - Diamicton STIFF grey brown very sandy CLAY. Occasional fine to coarse gravel. Includes clayey sand lenses.
4				S4/3.00 - 3.00	TOC		Su = 100	
4.45				SPT2/4.00 - 4.45			N = 40	Borehole terminated at 4.00m
5								
6								
7								
8								
9								
10								

 Prism.NET www.prismerp.co.uk	Well Diameter		Depth of Borehole	4.00m
	Well Casing Length		Depth to Groundwater	
	Well Screen Length		Page	One of One

Composite Strength Profile

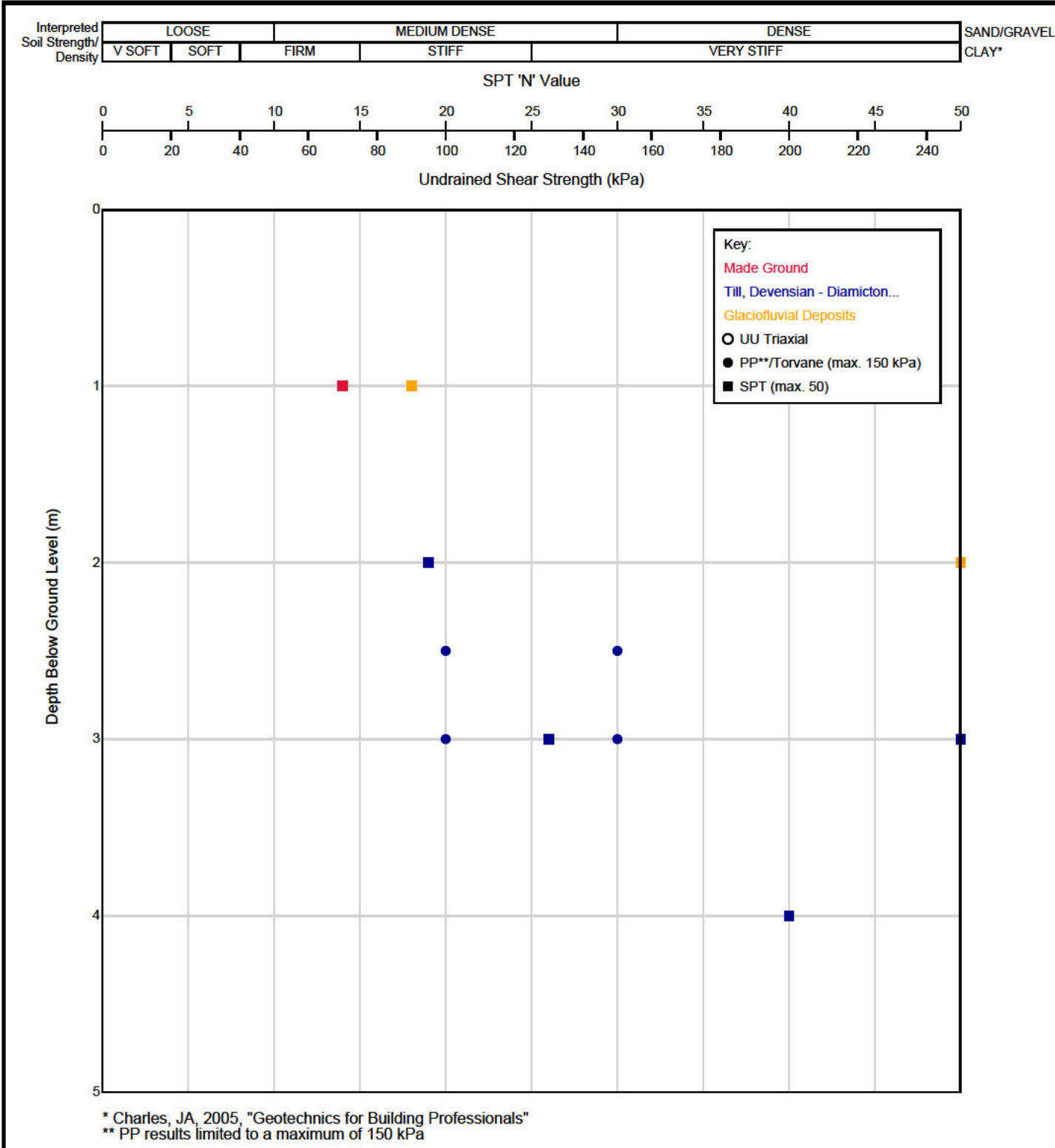
SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Tel: 01296 739400 Email: consultants@subadra.com

Project Name	Brothers Industries, Wrexham		
Project Code	IN23886		



Prism.NET
www.prismerp.co.uk

**ATTACHMENT FOUR:
LABORATORY CERTIFICATES**

Client: Portable Venues (Group) Limited (Smart Space)		Report	IN23886 CL 001
		Date	July 2023
		Page	Attachment Four - 1

Report No 13087



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i> Duty Reporting Manager
Sample Type	Soil		

Soil - BTEX and MTBE - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH001	BH002	BH003	BH004						
			S2	S1	S3	S1						
			1.20m	0.40m	2.00m	0.40m						
MTBE ²	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5						
Benzene ²	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1						
Toluene ²	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1						
Ethylbenzene ²	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1						
p+m Xylene ²	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1						
o Xylene ²	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1						



Method:

2. UKAS 17025



Chain of Custody	25352	Analysed	WS 15/06/23
Received	WS 15/06/23	Reported	KC 20/06/23
Prepared	BO 15/06/23	Page	One of One

Report No 13088



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i>
Sample Type	Soil	Duty Reporting Manager	

Soil - TPH CWG - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH002	BH003	BH004							
			S4	S1	S3							
			3.00m	0.40m	1.50m							
C6-8 Aliphatic TPH	mg/kg	2.5	<2.5	<2.5	<2.5							
>C8-10 Aliphatic TPH	mg/kg	2.5	<2.5	<2.5	<2.5							
>C10-12 Aliphatic TPH ²	mg/kg	5	<5	<5	<5							
>C12-16 Aliphatic TPH ²	mg/kg	5	<5	<5	<5							
>C16-21 Aliphatic TPH ²	mg/kg	5	<5	<5	<5							
>C21-35 Aliphatic TPH ²	mg/kg	20	<20	<20	<20							
C6-8 Aromatic TPH	mg/kg	2.5	<2.5	<2.5	<2.5							
>C8-10 Aromatic TPH	mg/kg	2.5	<2.5	<2.5	<2.5							
>C10-12 Aromatic TPH ²	mg/kg	5	<5	<5	<5							
>C12-16 Aromatic TPH ²	mg/kg	5	<5	<5	<5							
>C16-21 Aromatic TPH ²	mg/kg	10	<10	<10	<10							
>C21-35 Aromatic TPH ²	mg/kg	20	<20	<20	<20							



Method:

2. UKAS 17025



Chain of Custody	25353	Analysed	WS 19/06/23
Received	WS 15/06/23	Reported	KC 20/06/23
Prepared	BO 15/06/23	Page	One of One

Report No 13100



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i> Duty Reporting Manager
Sample Type	Soil		

Soil - CLEA metals plus Chromium VI, Sb and Mo - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH001	BH003	BH004							
			S1	S1	S1							
			0.40m	0.40m	0.40m							
Antimony ³	mg/kg	1	2.0	1.5	1.4							
Arsenic ³	mg/kg	2	8	5	7							
Barium ³	mg/kg	3	152	148	86							
Beryllium ³	mg/kg	0.5	1.4	< 0.5	0.6							
Boron (Water Soluble) ³	mg/kg	1	< 1	< 1	< 1							
Cadmium ³	mg/kg	0.2	0.4	2.0	< 0.2							
Chromium ³	mg/kg	2	13	9	12							
Chromium Hexavalent ³	mg/kg	2	< 2	< 2	< 2							
Copper ³	mg/kg	4	29	11	13							
Lead ³	mg/kg	3	44	7	26							
Mercury ³	mg/kg	1	< 1	< 1	< 1							
Molybdenum ³	mg/kg	1	1.1	1.2	< 1							
Nickel ³	mg/kg	3	25	6	14							
Selenium ³	mg/kg	2	< 2	< 2	< 2							
Vanadium ³	mg/kg	1	21	16	14							
Zinc ³	mg/kg	3	109	188	34							

Method:

3. Subcontracted



Chain of Custody	25350	Analysed	WS 19/06/23
Received	WS 15/06/23	Reported	BO 22/06/23
Prepared	BO 15/06/23	Page	One of One

Report No 13101



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i>
Sample Type	Soil	Duty Reporting Manager	

Soil - PAHs (EPA16) - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details							
			BH001	BH002	BH003	BH004				
			S2	S2	S2	S2				
			1.20m	1.00m	0.90m	0.70m				
Naphthalene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.22				
Acenaphthylene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Acenaphthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Fluorene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Phenanthrene ³	mg/kg	0.1	< 0.1	< 0.1	0.14	0.29				
Anthracene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Pyrene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Benzo(a)anthracene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Chrysene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Benzo(b)fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Benzo(k)fluoranthene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Benzo(a)pyrene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Indeno(1,2,3-cd)pyrene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Dibenzo(ah)anthracene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Benzo(ghi)perylene ³	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1				
Total PAHs (EPA16) ³	mg/kg	1.6	< 1.6	< 1.6	< 1.6	< 1.6				

Method:

3. Subcontracted



Chain of Custody	25351	Analysed	WS 15/06/23
Received	WS 15/06/23	Reported	BO 22/06/23
Prepared	BO 15/06/23	Page	One of One

Report No 13102



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i> Duty Reporting Manager
Sample Type	Soil		

Soil - TOC - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH001	BH002	BH004							
			S3	S3	S4							
			2.30m	2.00m	3.00m							
Total Organic Carbon ³	%	0.1	0.9	1.1	0.9							

Method:

3. Subcontracted



Chain of Custody	25354	Analysed	
Received	WS 15/06/23	Reported	BO 22/06/23
Prepared		Page	One of One

Report No 13104



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i> Duty Reporting Manager
Sample Type	Soil		

Soil - Asbestos Screen - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details				
			BH001	BH003			
			S1	S1			
			0.40m	0.40m			
Asbestos Screen ³	NA	0	Not Detected	Not Detected			
Asbestos Matrix ³	NA	0					
Asbestos Type ³	NA	0					

Method:

3. Subcontracted



Chain of Custody	25349	Analysed	WS 19/06/23
Received	WS 15/06/23	Reported	BO 22/06/23
Prepared	BO 15/06/23	Page	One of One

Report No 13091



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i> Duty Reporting Manager
Sample Type	Water		

Water - BTEX and MTBE - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH001									
			1.10m									
MTBE ²	ug/l	25	<25									
Benzene ²	ug/l	5	<5									
Toluene ²	ug/l	5	<5									
Ethylbenzene ²	ug/l	5	<5									
p+m Xylene ²	ug/l	10	<10									
o Xylene ²	ug/l	5	<5									



Method:

2. UKAS 17025



Prism.NET
www.prismerp.co.uk

Chain of Custody	25347	Analysed	WS 20/06/23
Received	WS 15/06/23	Reported	KC 21/06/23
Prepared	BO 20/06/23	Page	One of One

Report No 13094



E: lab@astanalysis.co.uk T: 01296 739 423
13 Triangle Business Park, Stoke Mandeville, HP22 5BL

Project	IN23886 Brothers Industries	Sampled	13th June 2023
Client	Subadra Consulting Ltd/Invoice	Report Approved By	<i>Katherine Cook</i>
Sample Type	Water		Duty Reporting Manager

Water - TPH CWG - 13th June 2023

Analyte	Unit	Method Detection Limit	Sample Details									
			BH001									
			1.10m									
C6-8 Aliphatic TPH	ug/l	10	<10									
>C8-10 Aliphatic TPH	ug/l	10	<10									
>C10-12 Aliphatic TPH	ug/l	50	<50									
>C12-16 Aliphatic TPH	ug/l	50	<50									
>C16-21 Aliphatic TPH	ug/l	50	<50									
>C21-35 Aliphatic TPH	ug/l	50	<50									
C6-8 Aromatic TPH	ug/l	10	<10									
>C8-10 Aromatic TPH	ug/l	10	<10									
>C10-12 Aromatic TPH	ug/l	50	<50									
>C12-16 Aromatic TPH	ug/l	50	<50									
>C16-21 Aromatic TPH	ug/l	50	<50									
>C21-35 Aromatic TPH	ug/l	50	<50									

Method:



Prism.NET
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Chain of Custody	25348	Analysed	WS 20/06/23
Received	WS 15/06/23	Reported	KC 05/07/23
Prepared	BO 20/06/23	Page	One of One

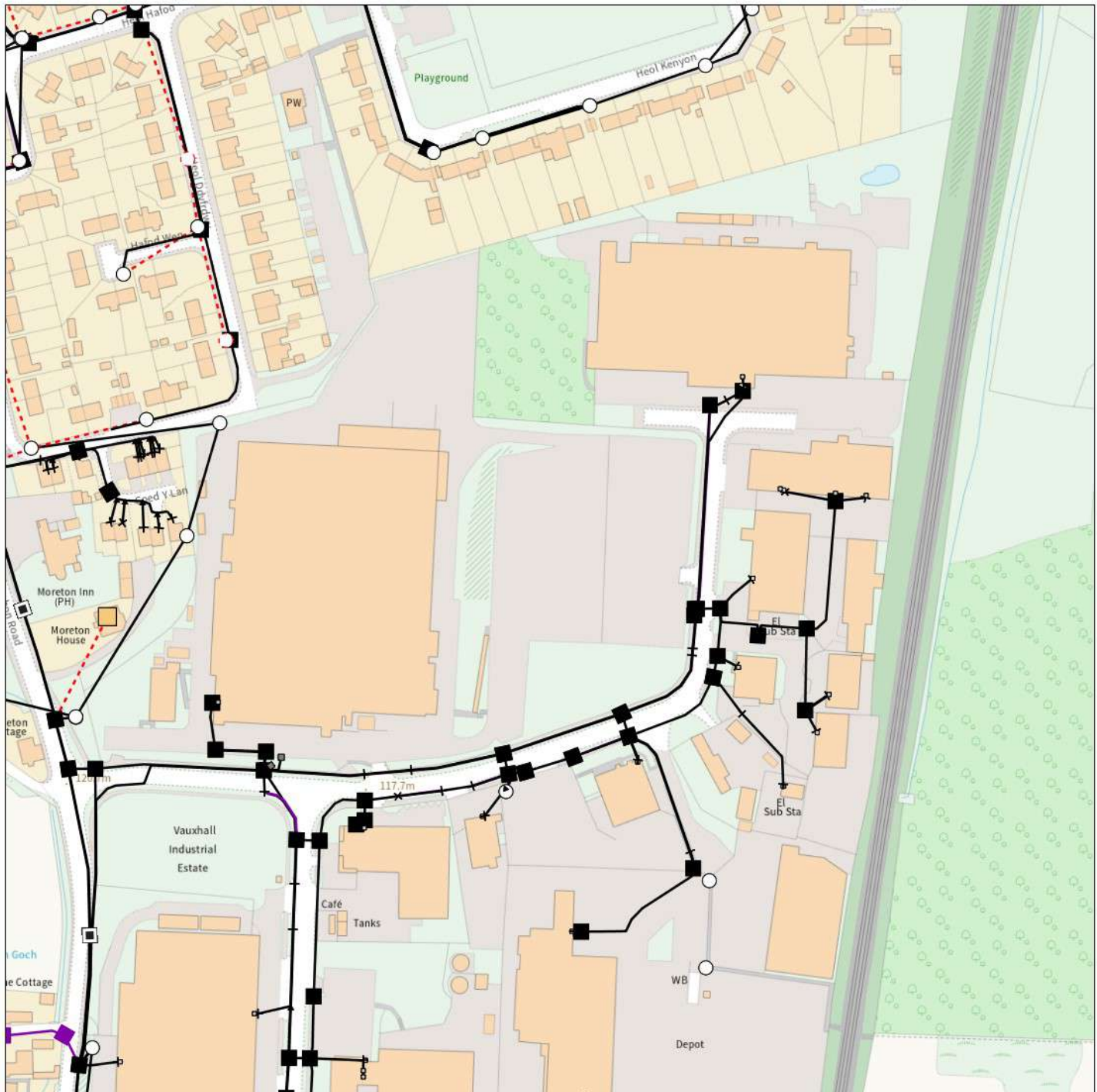
Brothers Industries, Wrexham

**ATTACHMENT FIVE:
PUBLIC UTILITY DRAWINGS**

Client: Portable Venues (Group)
Limited (Smart Space)

Report	IN23886 CL 001
Date	July 2023
Page	Attachment Five - 1

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : GRB11566K

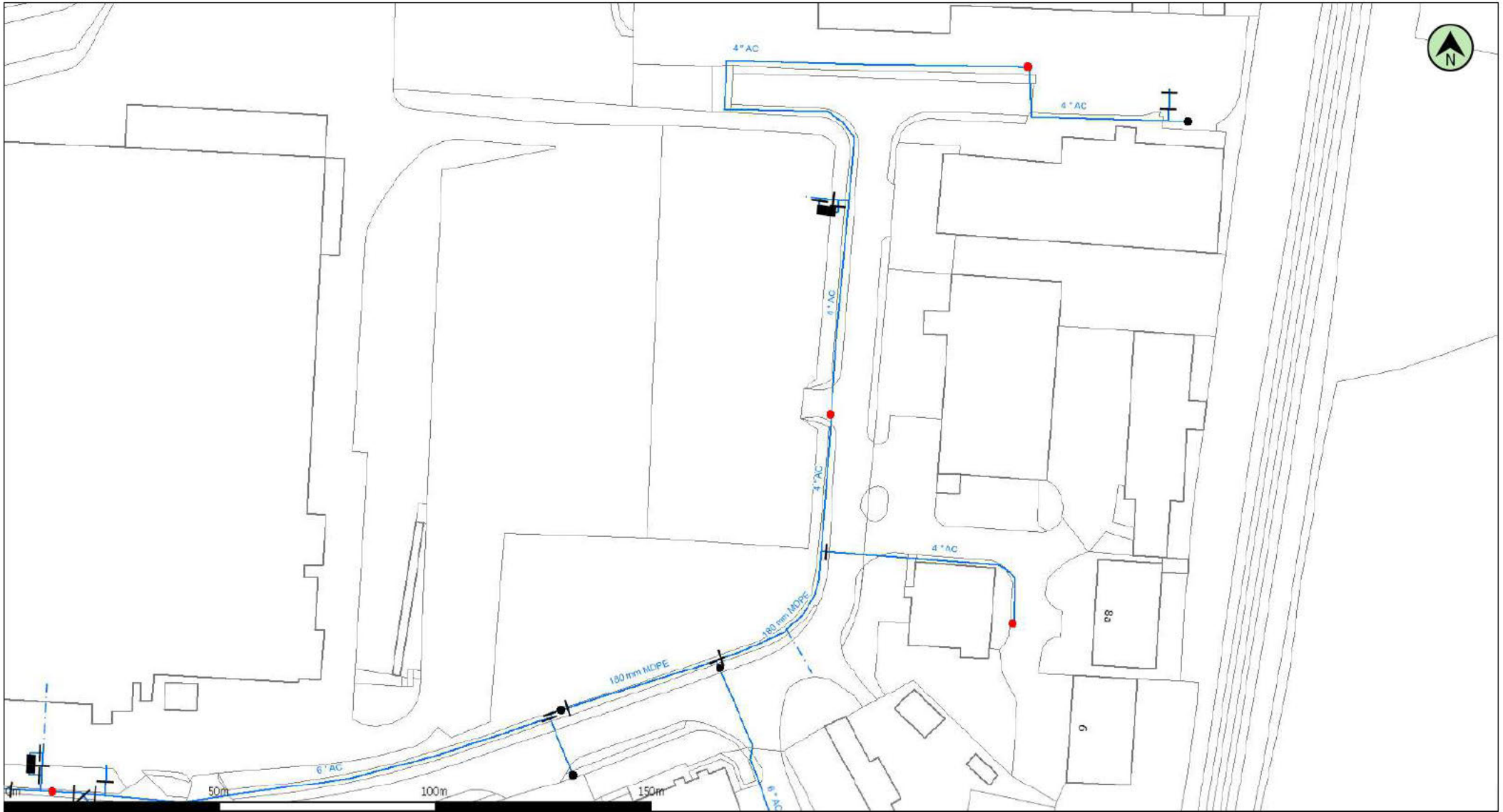
Map Reference : (centre) SJ3040345487

Easting/Northing : (centre) 330403,345487

Issued : 05/06/2023 11:56:18

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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Hydrant	●	Valve		Aqueduct	---
Washout	●	Water Main	—	Duct	---
Meter	■	Abandoned Pipe	----	Service Pipe/ Private Pipe	----

camerong@subadra.com

Vauxhall Ind Est2

HAFREN
DYFRDWY
severn dee

GENERAL CONDITIONS AND PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK ADJACENT TO SEVERN TRENT WATER'S APPARATUS

Please ensure that a copy of these conditions is passed to your representative and/or your contractor on site. If any damage is caused to Hafren Dyfrdwy (HD) apparatus (defined below), the person, contractor or subcontractor responsible must inform HD immediately on: **0800 085 8033 (24 hours)**

- a) These general conditions and precautions apply to the public sewerage, water distribution and cables in ducts including (but not limited to) sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991 (a legal agreement between a developer and HD, where a developer agrees to build sewers to an agreed standard, which HD will then adopt); mains installed in accordance with an agreement for the self-construction of water mains entered into with HD and the assets described at condition b) of these general conditions and precautions. Such apparatus is referred to as "HD Apparatus" in these general conditions and precautions.
- b) Please be aware that due to The Private Sewers Transfer Regulations June 2011, the number of public sewers has increased, but many of these are not shown on the public sewer record. However, some idea of their positions may be obtained from the position of inspection covers and their existence must be anticipated.
- c) On request, STW will issue a copy of the plan showing the approximate locations of HD Apparatus although in certain instances a charge will be made. The position of private drains, private sewers and water service pipes to properties are not normally shown but their presence must be anticipated. This plan and the information supplied with it is furnished as a general guide only and HD does not guarantee its accuracy.
- d) STW does not update these plans on a regular basis. Therefore the position and depth of HD Apparatus may change and this plan is issued subject to any such change. Before any works are carried out, you should confirm whether any changes to the plan have been made since it was issued.
- e) The plan must not be relied upon in the event of excavations or other works in the vicinity of HD Apparatus. It is your responsibility to ascertain the precise location of any HD Apparatus prior to undertaking any development or other works (including but not limited to excavations).
- f) No person or company shall be relieved from liability for loss and/or damage caused to HD Apparatus by reason of the actual position and/or depths of HD Apparatus being different from those shown on the plan.

In order to achieve safe working conditions adjacent to any HD Apparatus the following should be observed:

1. All HD Apparatus should be located by hand digging prior to the use of mechanical excavators.
2. All information set out in any plans received from us, or given by our staff at the site of the works, about the position and depth of the mains, is approximate. Every possible precaution should be taken to avoid damage to HD Apparatus. You or your contractor must ensure the safety of HD Apparatus and will be responsible for the cost of repairing any loss and/or damage caused (including without limitation replacement parts).
3. Water mains are normally laid at a depth of 900mm. No records are kept of customer service pipes which are normally laid at a depth of 750mm; but some idea of their positions may be obtained from the position of stop tap covers and their existence must be anticipated.
4. During construction work, where heavy plant will cross the line of HD Apparatus, specific crossing points must be agreed with HD and suitably reinforced where required. These crossing points should be clearly marked and crossing of the line of HD Apparatus at other locations must be prevented.

5. Where it is proposed to carry out piling or boring within 20 metres of any HD Apparatus, HD should be consulted to enable any affected HD Apparatus to be surveyed prior to the works commencing.
6. Where excavation of trenches adjacent to any HD Apparatus affects its support, the HD Apparatus must be supported to the satisfaction of HD. Water mains and some sewers are pressurised and can fail if excavation removes support to thrust blocks to bends and other fittings.
7. Where a trench is excavated crossing or parallel to the line of any HD Apparatus, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the HD Apparatus. In special cases, it may be necessary to provide permanent support to HD Apparatus which has been exposed over a length of the excavation before backfilling and reinstatement is carried out. There should be no concrete backfill in contact with the HD Apparatus.
8. No other apparatus should be laid along the line of HD Apparatus irrespective of clearance. Above ground apparatus must not be located within a minimum of 3 metres either side of the centre line of HD Apparatus for smaller sized pipes and 6 metres either side for larger sized pipes without prior approval. No manhole or chamber shall be built over or around any HD Apparatus.
9. A minimum radial clearance of 300 millimetres should be allowed between any plant or equipment being installed and existing HD Apparatus. We reserve the right to increase this distance where strategic assets are affected.
10. Where any HD Apparatus coated with a special wrapping is damaged, even to a minor extent, HD must be notified and the trench left open until the damage has been inspected and the necessary repairs have been carried out. In the case of any material damage to any HD Apparatus causing leakage, weakening of the mechanical strength of the pipe or corrosion-protection damage, the necessary remedial work will be recharged to you.
11. It may be necessary to adjust the finished level of any surface boxes which may fall within your proposed construction. Please ensure that these are not damaged, buried or otherwise rendered inaccessible as a result of the works and that all stop taps, valves, hydrants, etc. remain accessible and operable. Minor reduction in existing levels may result in conflict with HD Apparatus such as valve spindles or tops of hydrants housed under the surface boxes. Checks should be made during site investigations to ascertain the level of such HD Apparatus in order to determine any necessary alterations in advance of the works.
12. With regard to any proposed resurfacing works, you are required to contact HD on the number given above to arrange a site inspection to establish the condition of any HD Apparatus in the nature of surface boxes or manhole covers and frames affected by the works. HD will then advise on any measures to be taken, in the event of this a proportionate charge will be made.
13. You are advised that HD will not agree to either the erection of posts, directly over or within 1.0 metre of valves and hydrants,
14. No explosives are to be used in the vicinity of any HD Apparatus without prior consultation with HD.

TREE PLANTING RESTRICTIONS

There are many problems with the location of trees adjacent to sewers, water mains and other HD Apparatus and these can lead to the loss of trees and hence amenity to the area which many people may have become used to. It is best if the problem is not created in the first place. Set out below are the recommendations for tree planting in close proximity to public sewers, water mains and other HD Apparatus.

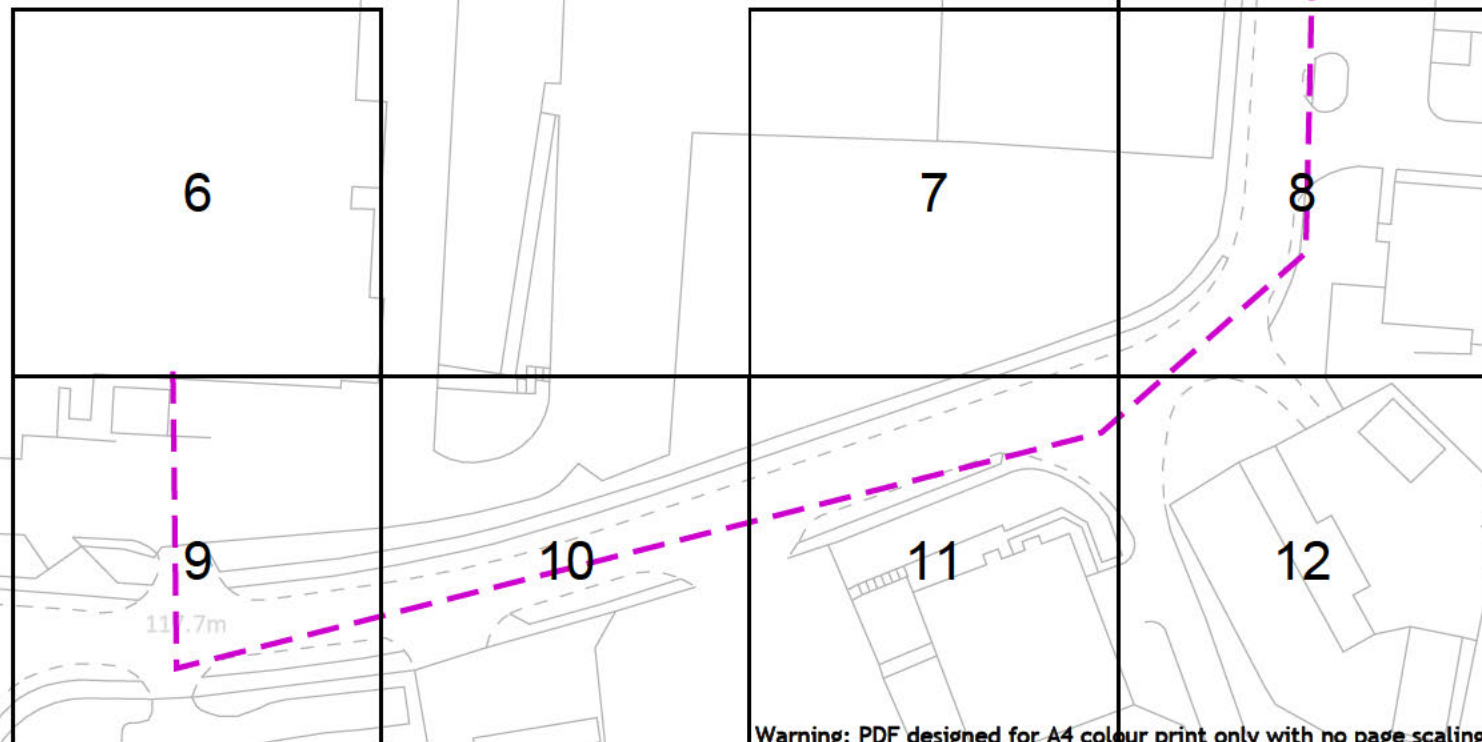
15. Please ensure that, in relation to HD Apparatus, the mature root systems and canopies of any tree planted do not and will not encroach within the recommended distances specified in the notes below.
16. Both Poplar and Willow trees have extensive root systems and should not be planted within 12 metres of a sewer, water main or other HD Apparatus.

17. The following trees and those of similar size, be they deciduous or evergreen, should not be planted within 6 metres of a sewer, water main or other HD Apparatus. E.g. Ash, Beech, Birch, most Conifers, Elm, Horse Chestnut, Lime, Oak, Sycamore, Apple and Pear. Asset Protection Statements Updated May 2014

18. HD personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 2 metre of the centre line of a sewer, water main or other HD Apparatus.

19. In certain circumstances, both HD and landowners may wish to plant shrubs/bushes in close proximity to a sewer, water main or other HD Apparatus for screening purposes. The following are shallow rooting and are suitable for this purpose: Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry, and most ornamental flowering shrubs.

Overview Map of Worksite - No Assets Displayed



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Underground Cables

In Use

Out of Use

Assumed Route

Overhead Line

Warning - Shallow Cables

Dig Sites Area: Line:

LV
 HV (6kV/5.6kV)
 HV (22kV/11kV)
 EHV (33kV)
 Trans (132kV/275kV/400kV)
 Non Power Cable
 Duct

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- You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains cables, services and other apparatus before any mechanical excavation is used.
- Where overhead lines cross your site, you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- Any works that fall within 5m of any 132kV or Transmission cables, or within 15m of any 132kV or Transmission OHL's, please contact our General Enquiries Team **0845 273 4444 / 0330 10 10 444** for further safety advice.
- In the event of an emergency or for further assistance contact **0800-092-9290 (Central & Southern Scotland) or 0800-001-5400 (Merseyside, Cheshire & North Wales) or by dialling 105**
- It is your responsibility to ensure this information is provided to all persons working near our plant.

Date Requested: 05/06/2023

Job Reference: 29710037

Site Location: 330450 345404

Requested by: Ms Gillian Cameron

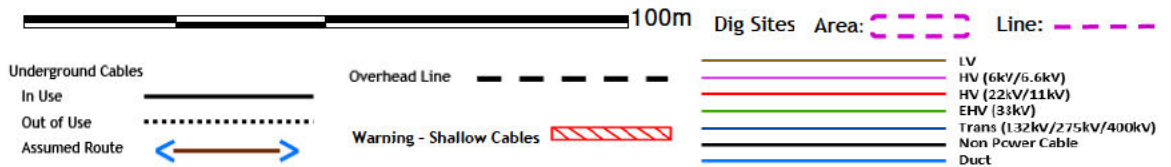
Your Scheme/Reference: Vauxhall Ind Est

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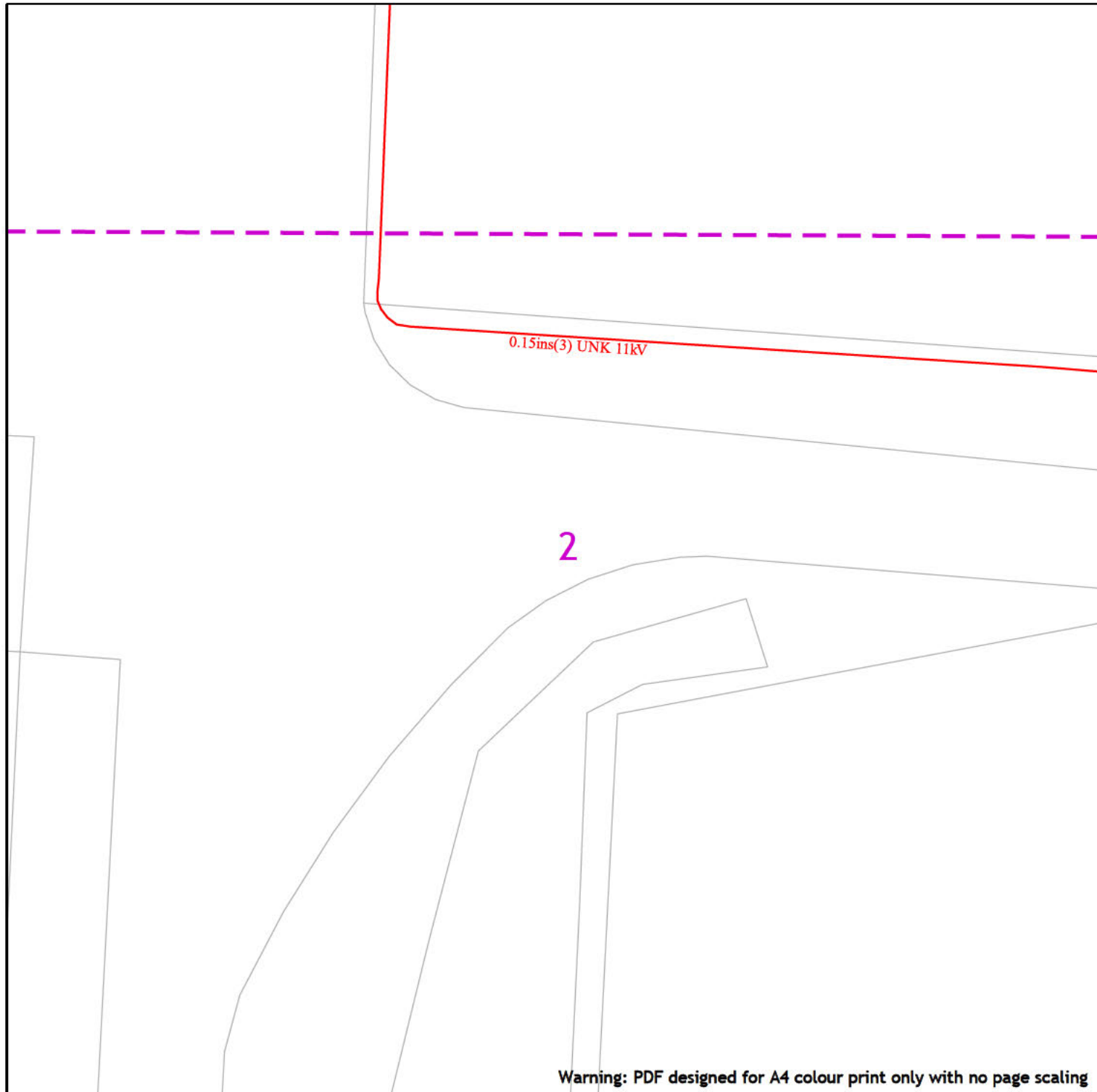
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Job Reference: 29710037
Site Location: 330450 345404
Requested by: Ms Gillian Cameron

Your Scheme/Reference: Vauxhall Ind Est

Scale: 1:250 (When plotted at A4)

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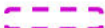




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Scale: 1:250 (When plotted at A4)

100m

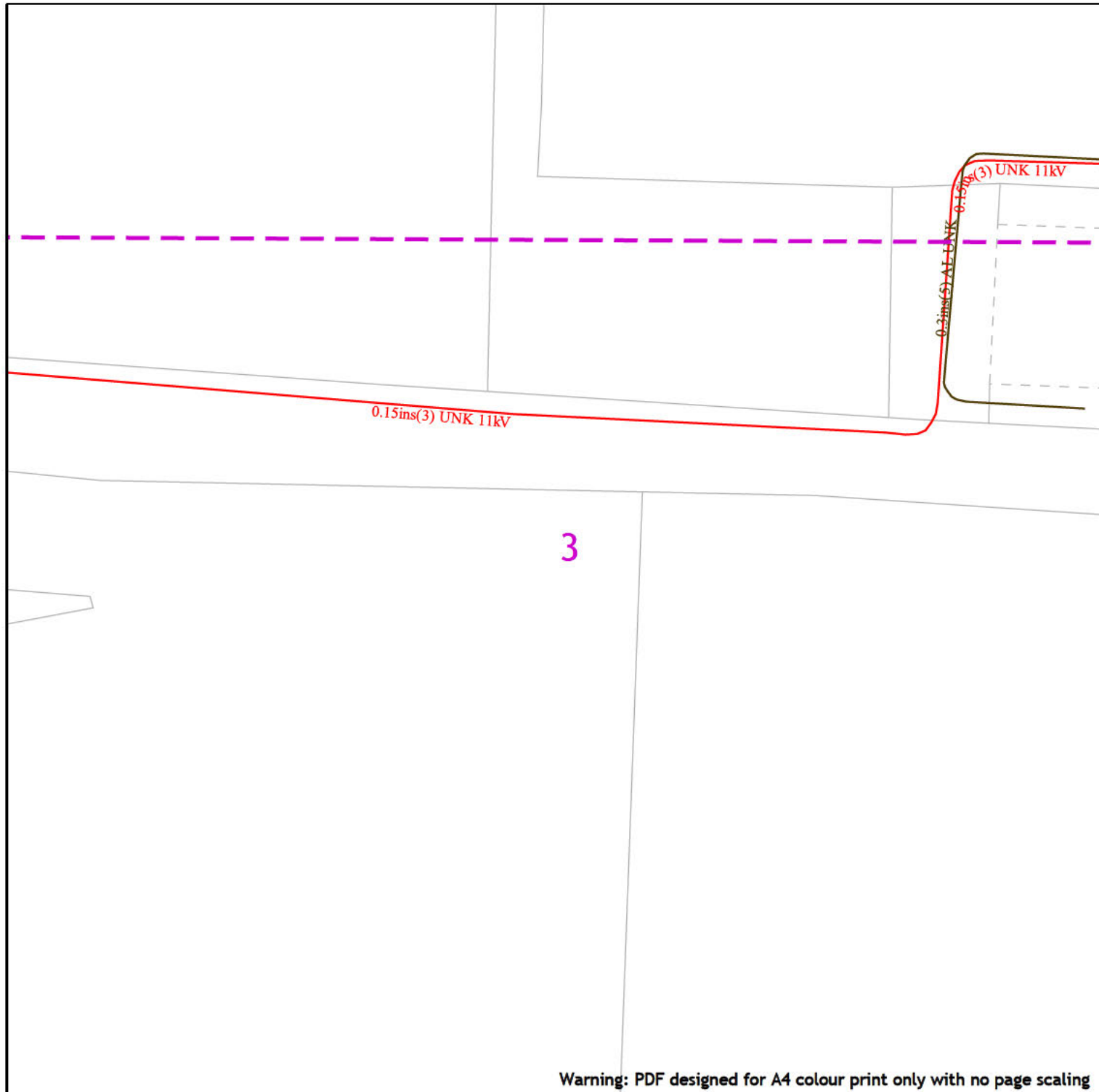
Dig Sites Area:  Line: 

Underground Cables	Overhead Line		LV (6kV/5.6kV)
In Use 			HV (22kV/11kV)
Out of Use 			EHV (33kV)
Assumed Route 	Warning - Shallow Cables 		Trans (132kV/275kV/400kV)
			Non Power Cable
			Duct

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Underground Cables

In Use —————

Out of Use

Assumed Route <—————>

Overhead Line - - - - -

Warning - Shallow Cables ▨▨▨▨▨

Dig Sites Area: - - - - - Line: - - - - -

————— LV
————— HV (6kV/5.6kV)
————— HV (22kV/11kV)
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————— Trans (132kV/275kV/400kV)
————— Non Power Cable
————— Duct

IMPORTANT NOTICES

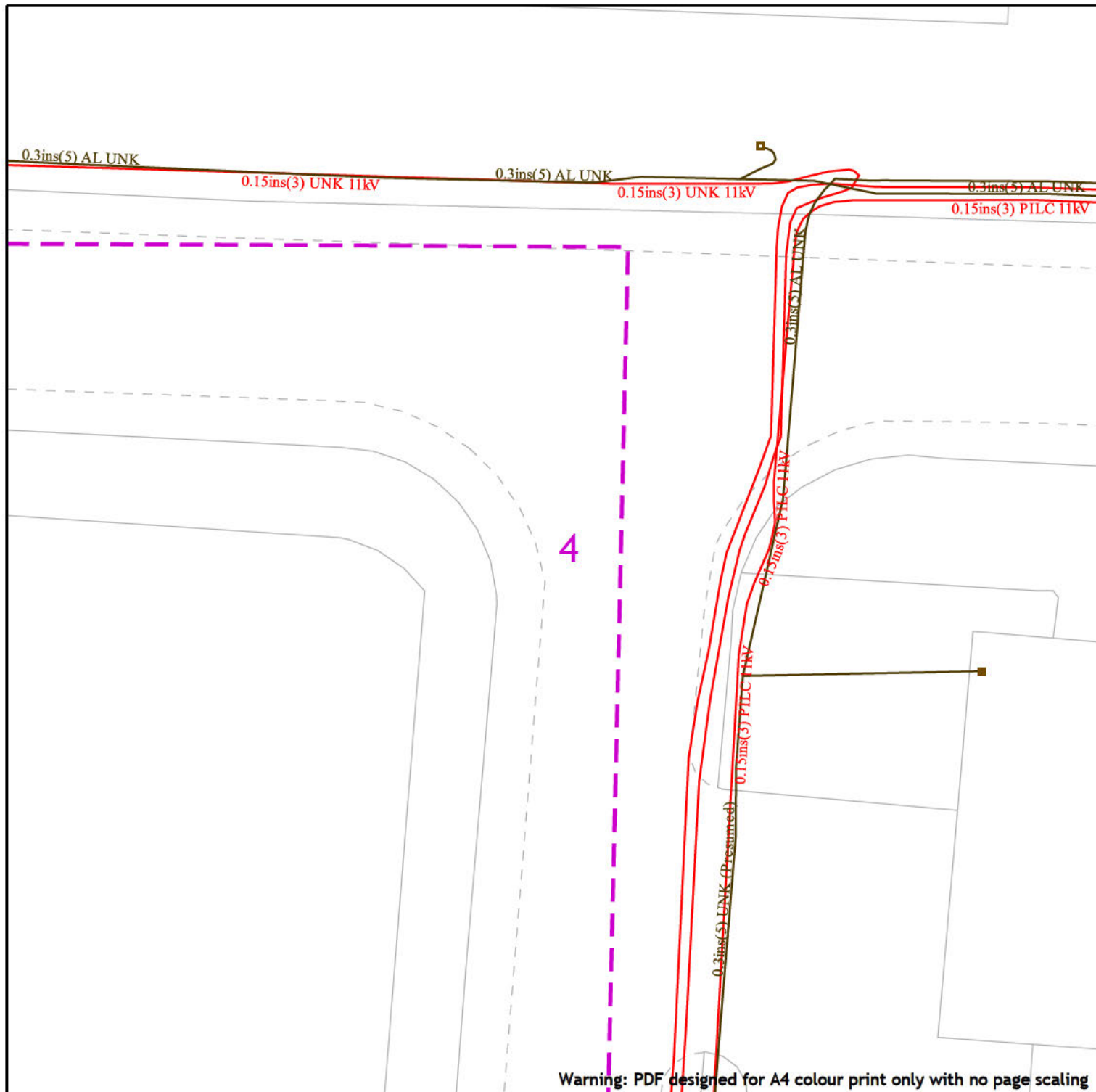
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Your Scheme/Reference: Vauxhall Ind Est

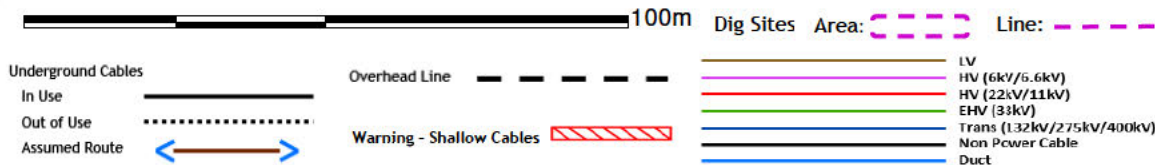
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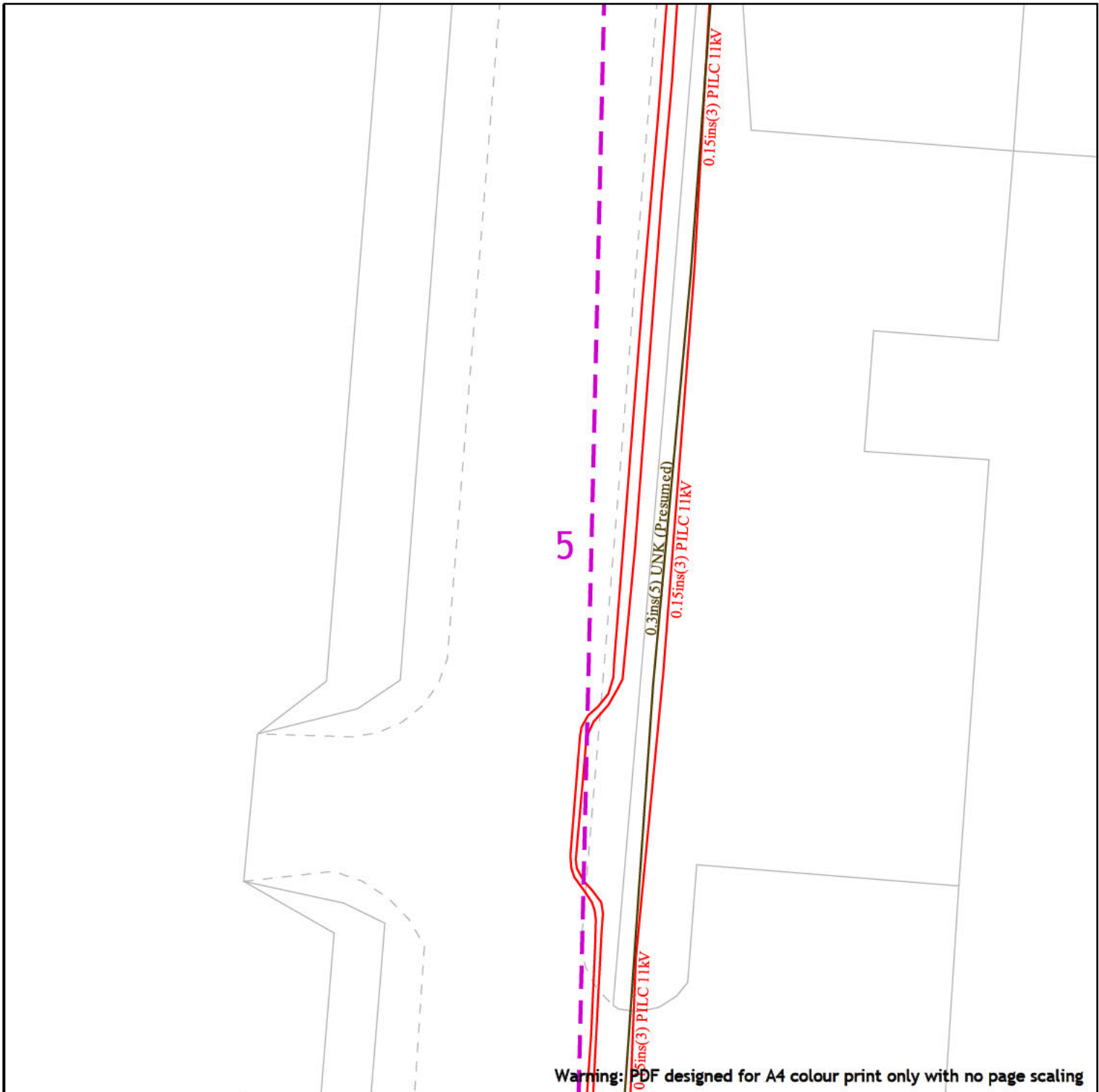
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Underground Cables

In Use

Out of Use

Assumed Route

Overhead Line

Warning - Shallow Cables

Dig Sites Area: Line:

	LV (6kV/5.6kV)
	HV (22kV/11kV)
	EHV (33kV)
	Trans (132kV/275kV/400kV)
	Non Power Cable
	Duct

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Job Reference: 29710037

Site Location: 330450 345404

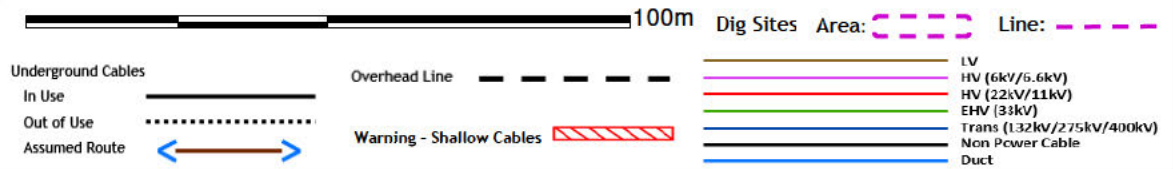
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Your Scheme/Reference: Vauxhall Ind Est

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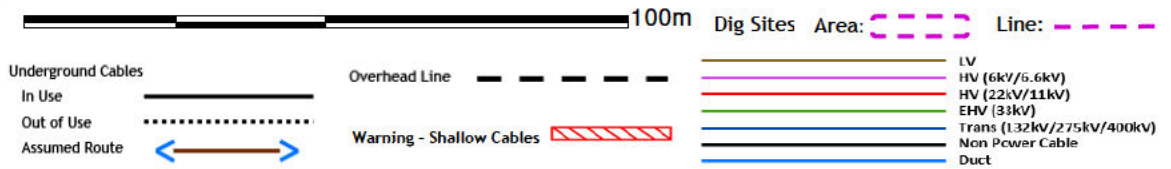
Date Requested: 05/06/2023
 Job Reference: 29710037
 Site Location: 330450 345404
 Requested by: Ms Gillian Cameron

Your Scheme/Reference: Vauxhall Ind
 Est

Scale: 1:250 (When plotted at A4)

7

Warning: PDF designed for A4 colour print only with no page scaling



IMPORTANT NOTICES

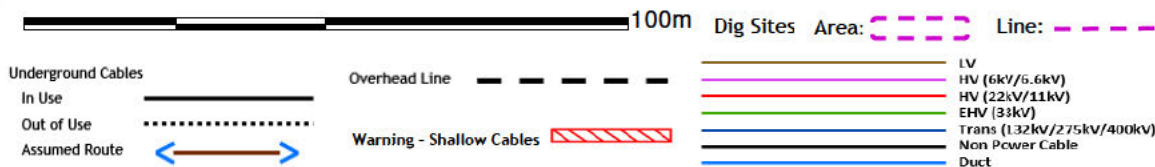
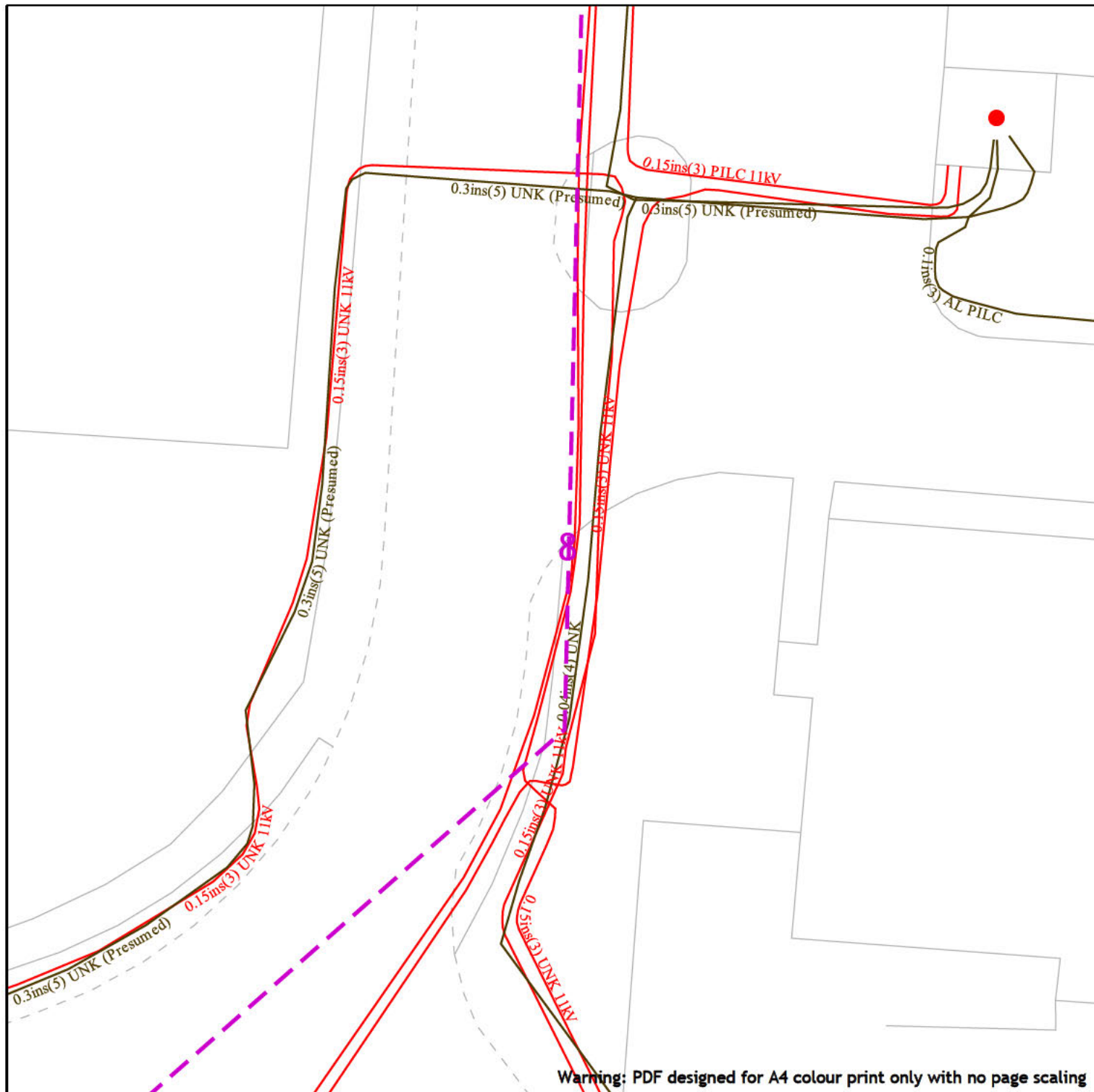
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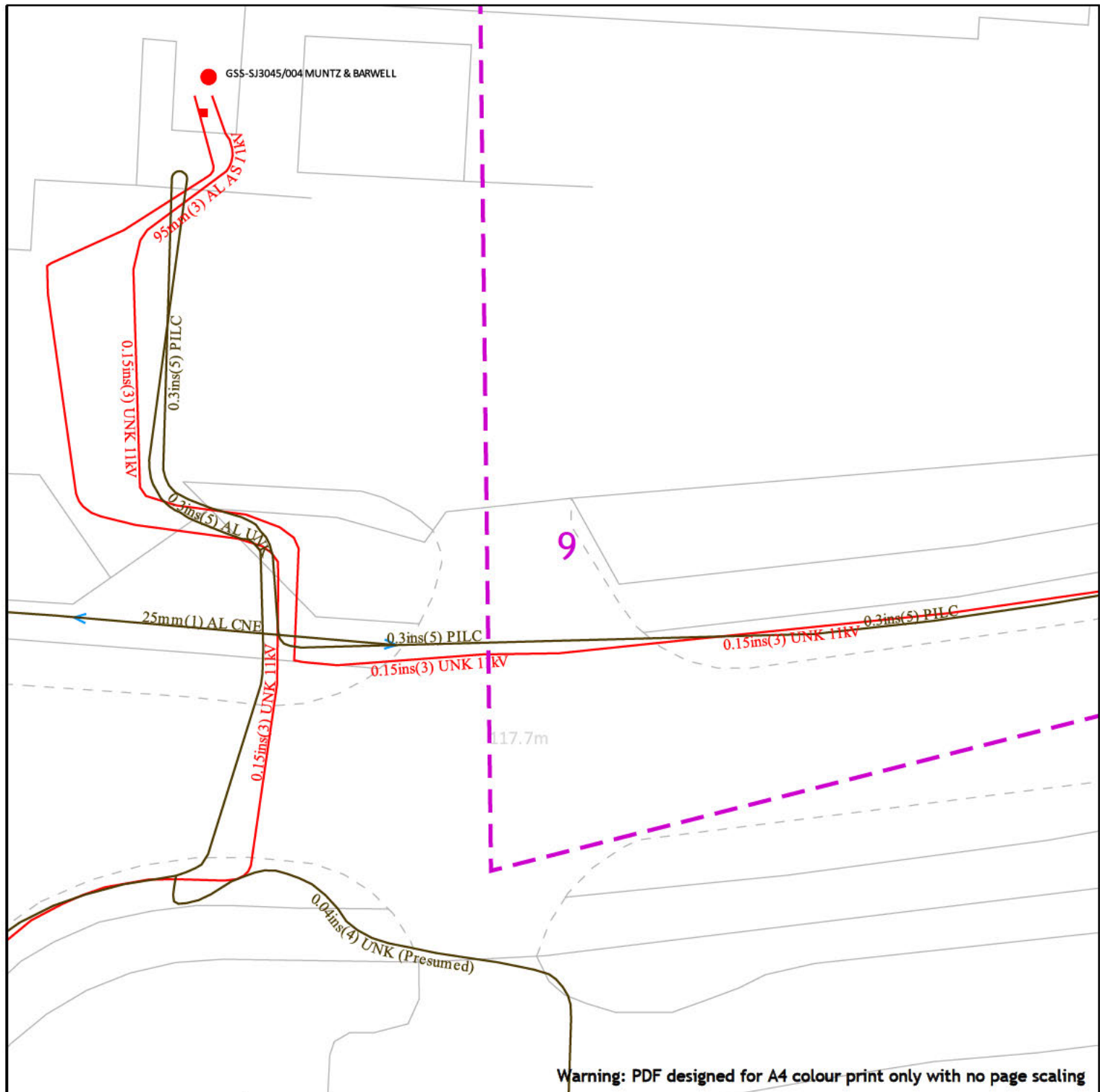
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Underground Cables

In Use

Out of Use

Assumed Route

Overhead Line

Warning - Shallow Cables

Dig Sites

Area:

Line:

100m

1V (6kV/5.6kV)

HV (22kV/11kV)

EHV (33kV)

Trans (132kV/275kV/400kV)

Non Power Cable

Duct

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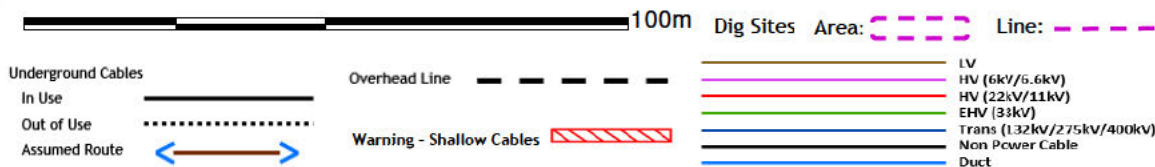
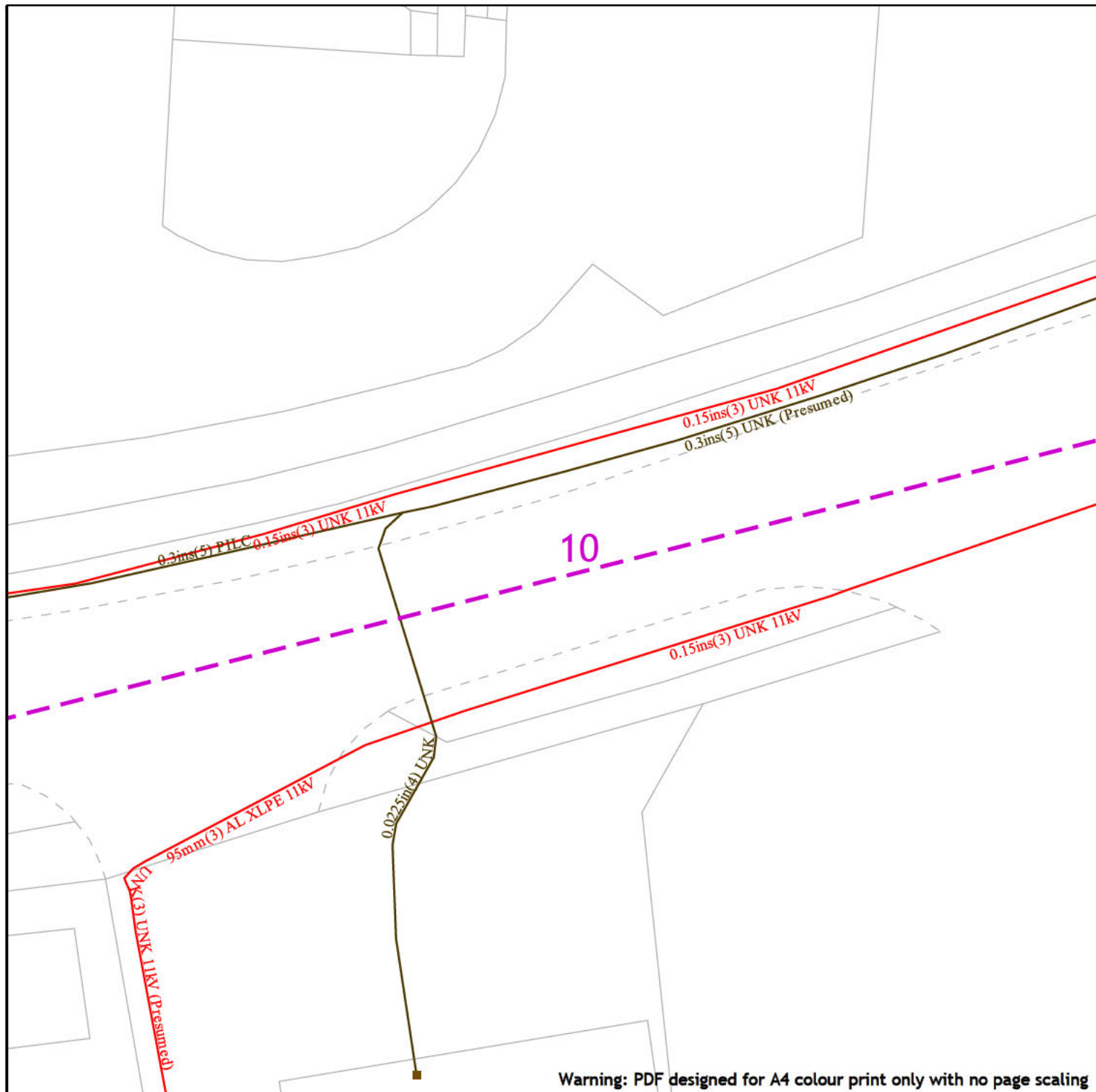
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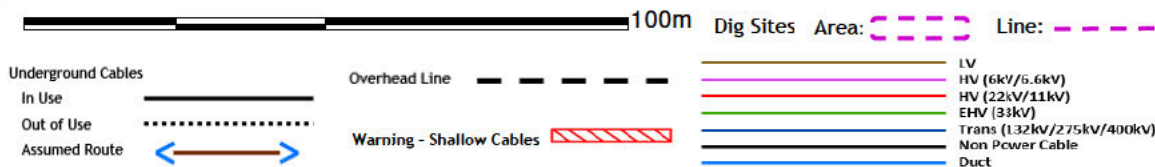
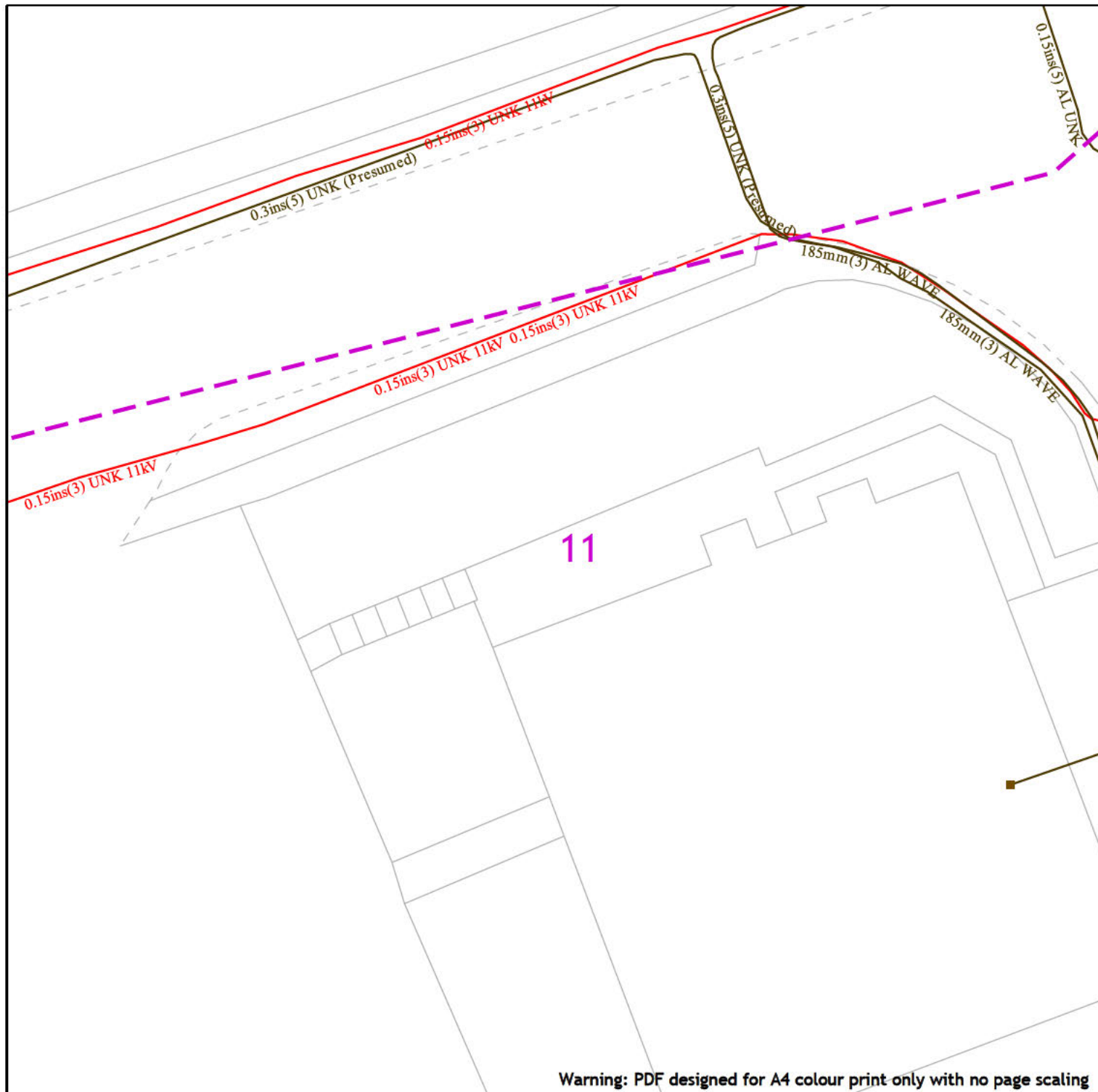
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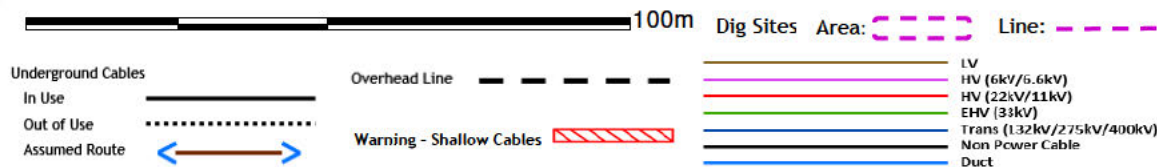
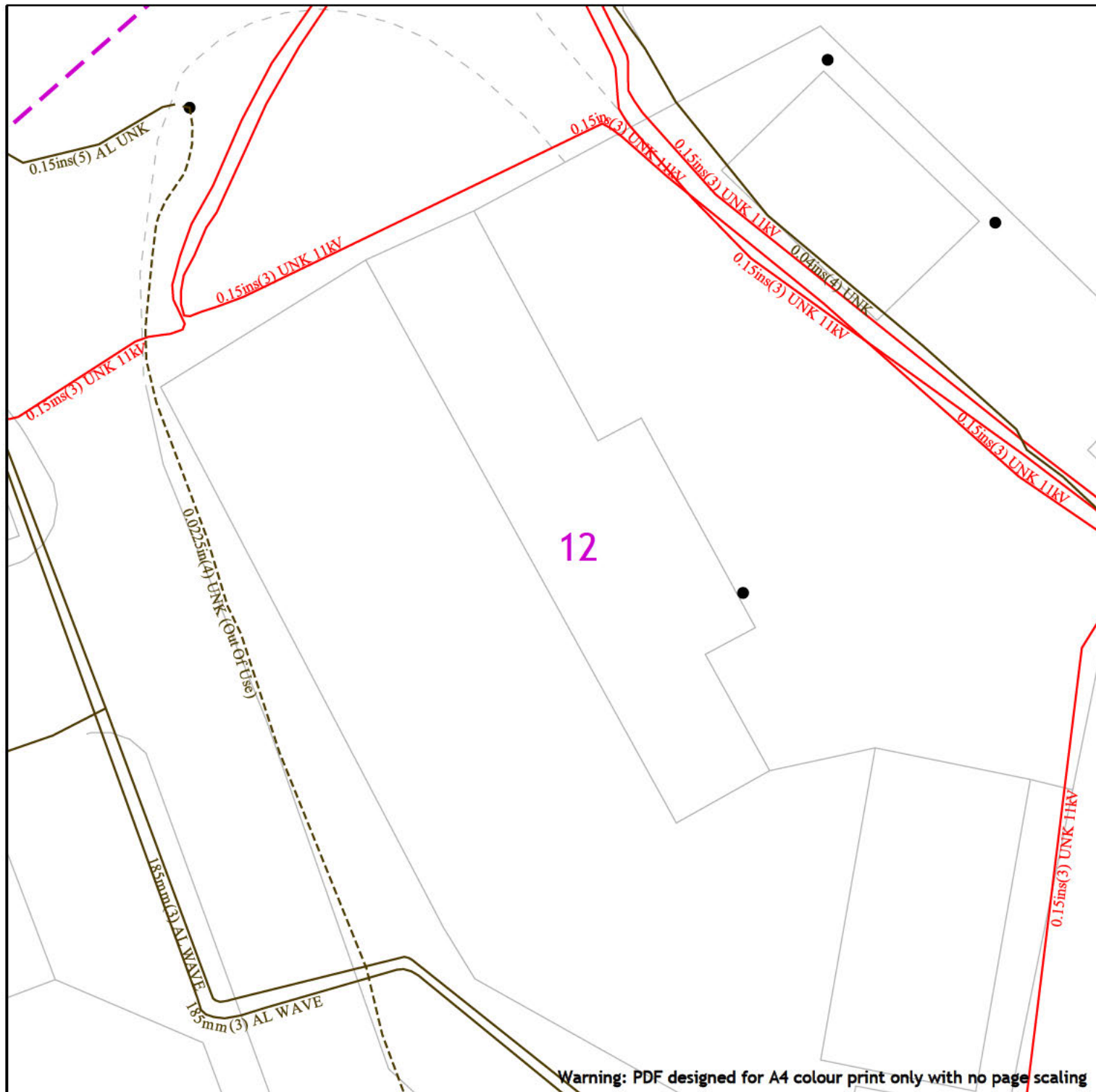
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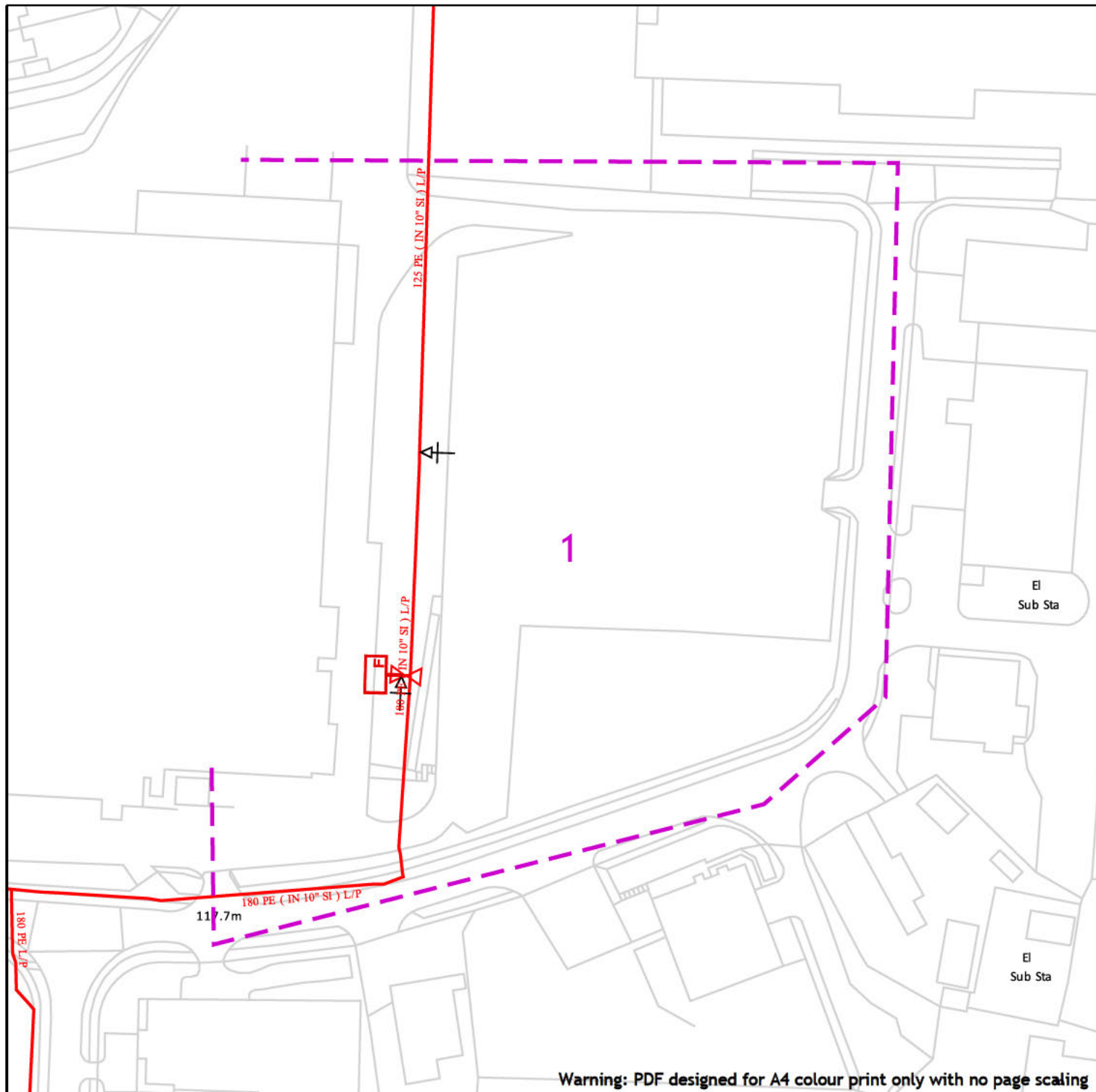
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Contact Us

Mapping Enquiries:

All areas 02920 278 912

General Enquiries:

All areas 0800 912 2999

Dig Sites

Area:



Line:



Low Pressure (LP) 21mbar – 75mbar

Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

Change of Diameter

End Cap

Depth of cover

Line/Fire Valve

Governor Station

IMPORTANT NOTICES

- This information is given as a guide only and its accuracy cannot be guaranteed
- The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter
- Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated
- You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used
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- If in doubt call the WWU dig team on 02920 27891

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Date Requested: 05/06/2023

Job Reference: 29710037

Site Location: 330450 345404

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Scale: 1:1250 (When plotted at A4)

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Smell gas?

Call the Gas Emergency Service on:
0800 111 999

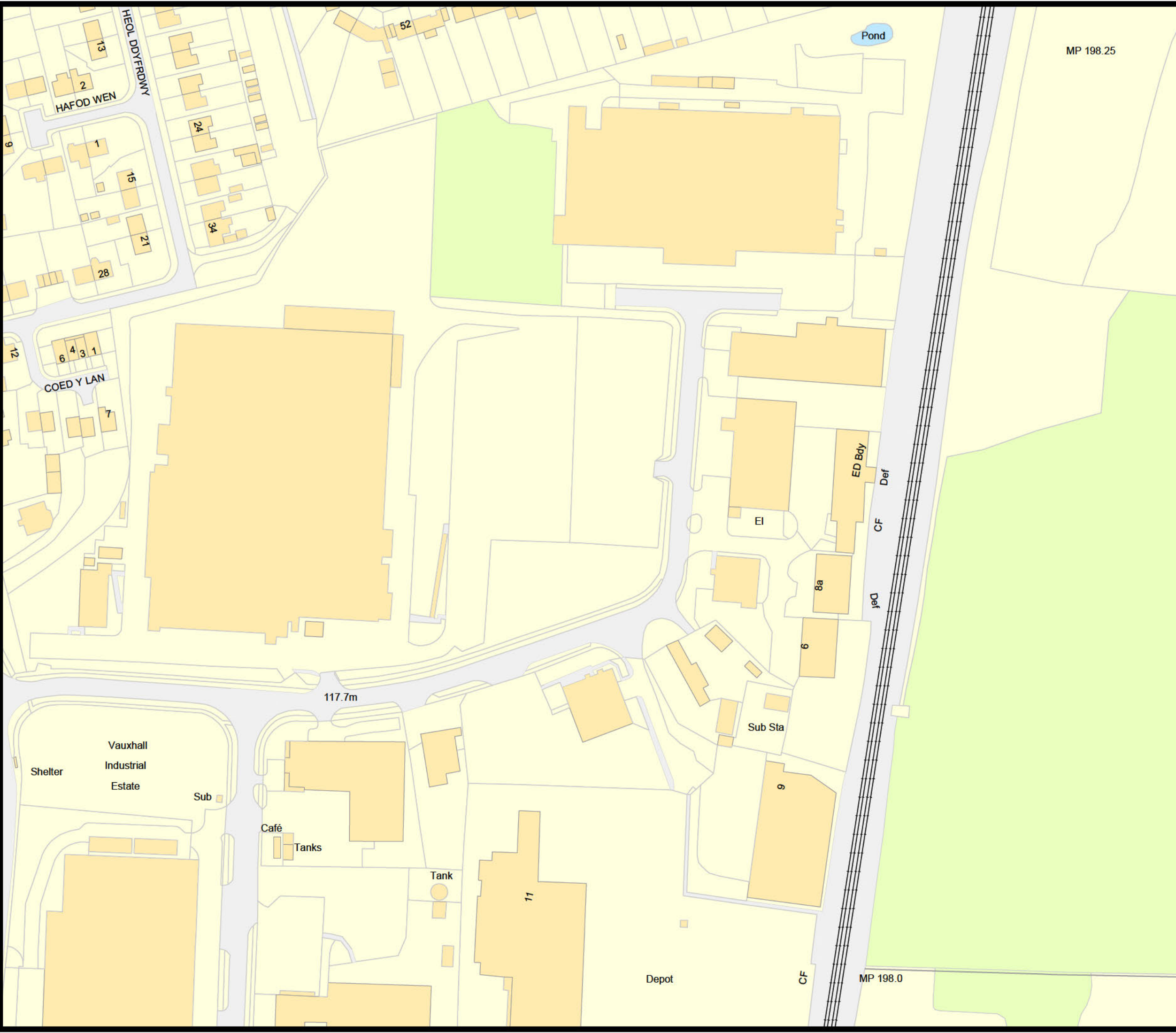
Dial
before
you dig

We need
10 days'
notice

Dial
Call 020 2077 8012
before you start work

Investigate
before you dig, make sure
you know what's below.

Go ahead
Done your research?
Now you can dig safely.



LEGEND

Clean network:

	Sluice valve		Stop tap
	Pressure reducing valve		Water Treatment Works
	Meter		Water Pumping Station
	Bulkmeter		Existing main
	Hydrant		Non-operational main
	Cap end		Raw Water
	Air valve		

NB: Water main symbol colour indicates the type.
LIGHT BLUE - Trunk
DARK BLUE - Distribution
YELLOW - Raw Water

Notes:

Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases pipe material (other than Asbestos Cement or Pitch Fibre) may be found to be asbestos cement (AC) or Pitch Fibre (PF). It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation.

Dŵr Cymru Cyfyngedig (the Company) gives this information as to the position of its underground apparatus by way of general guidance only and on the strict understanding that it is based on the best information available and no warranty as to its correctness is relied upon in the event of excavations or other works made in the vicinity of the company's apparatus. The onus of locating apparatus before carrying out any excavations rests entirely on you. The information which is supplied by the Company, is done so in accordance with statutory requirements of sections 198 and 199 of the Water Industry Act 1991 which is based upon the best information available and, in particular, but without prejudice to the generality of the foregoing, it should be noted that the records that are available to the Company may not disclose the existence of a water main, service pipe, sewer, lateral drain or disposal main and any associated apparatus laid before 1 September 1989, or, if they do, the particulars thereof including their position underground may not be accurate. It must be understood that the furnishing of this information is entirely without prejudice to the provision of the New Roads and Street Works Act 1991 and the Company's right to be compensated for any damage to its apparatus.

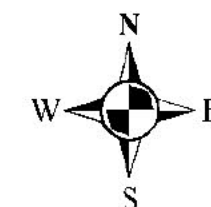
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**EXACT LOCATIONS OF ALL APPARATUS
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Map scale: 1:1500
Printed by: Stephen Burton
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PLS0041984



LEGEND(Representative of most common features)

Waste network:			
	Foul chamber		Outfall
	Surface water chamber		Lamphole
	Combined chamber		Storm Overflow
	Combined sewer overflow		Rising main
	Special purpose chamber		Gravity sewer
	Treatment works		Private sewer
	Pumping station		Private sewer subject to Sect. 104 adoption agreement
NB: Sewer symbol colour indicates the type			
RED	- Combined		Private Sewer Transfer
BROWN	- Surface Water		Lateral Drain
PURPLE	- Foul		Inspection Chamber
NB: Former S24 sewers (for indicative purposes only)			

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