

ENVIRONMENTAL PERMIT SURRENDER

Silent Valley Landfill Gas Utilisation Plant

Surrender Site Condition Report

Prepared for: Infinis Energy Services Limited

Client Ref: 416.064772.00001

SLR Ref: 416.064772.00001
Version No: 1
May 2023



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1.0 INTRODUCTION

SLR Consulting Limited (SLR) has been commissioned by Infinis Energy Services Limited (Infinis) to prepare a Surrender Site Condition Report (SSCR) on behalf of Novera Energy Generation No. 2 Limited (Novera) in support of an application to surrender the Environmental Permit (EP) (EPR/ZP3535SQ) for the Silent Valley Gas Utilisation Plant located at Silent Valley Landfill, Cwm, Ebbw Vale, NP23 6PZ.

The aim of the SSCR is to demonstrate that there has been no deterioration in the condition of land at the site from the permitted activities and that the condition of the land is in a 'satisfactory state' for the purpose of the EP surrender.

This SSCR provides a record and describes the condition of the land at the site at the cessation of the permitted operations.

In the absence of a Site Condition Report (SCR) from the point of obtaining the EP, Sections 1 to 3 of Natural Resources Wales's SCR template¹ have been completed using a Groundsure Location Intelligence Report².

Throughout the lifetime of the site, records have been maintained for the purposes of completing Sections 4-7 of the SCR template.

For the purpose of this EP surrender application, Sections 8 to 10 of the SCR template have been completed in support of the application to surrender the EP.

2.0 Non-Technical Summary

The Silent Valley Landfill Generation Plant was a landfill gas utilisation plant (GUP) comprising two no. gas engines, one no. transformer, banded clean and waste oil storage tanks, above ground pipework, two gas boosters and one no. flare. It utilised landfill gas generated by the closed and restored Silent Valley non-hazardous landfill site (EPR ref. EPR/MP3835SV) operated by Silent Valley Waste Services Ltd (SVWS).

The environmental permit authorises Novera to combust landfill gas for the purpose of electricity generation and flare landfill gas as directly associated activities to the landfill.

Novera were first issued an environmental permit (EPR ref. EPR/ZP3535SQ) for the landfill GUP in 2005. The plant was operated in accordance with the environmental permit since this time. The environmental permit has been varied three times, once in 2010 in response to a change in name of the operator from Novera Energy No.2 Limited to Novera Energy Generation No.2 Limited and twice in 2013 firstly, in response to changes to the Environmental Permitting Regulations brought in by the Industrial Emissions Directive and secondly for a minor technical variation to replace gas engines and to add an emission point.

SVSW have submitted a new environmental permit application to NRW (ref. PAN 020287) received 28/12/2022, for a replacement Landfill GUP during which NRW stated that SVWS have the option to take on the liability for any contamination above baseline. SVWS responded to advise that they accept the liability. In the circumstances, it is considered that this surrender application is low-risk given no technical review of intrusive investigation data is required on NRW's behalf.

¹ <https://www.gov.uk/government/publications/environmental-permitting-h5-site-condition-report>

² Groundsure Location Intelligence Report

In December 2022, Novera decommissioned the site and removed their infrastructure. The permitted activities, i.e. the use of landfill gas in the GUP by Novera, have now ceased at the site. Now that the site has been decommissioned, Novera are seeking to surrender their environmental permit.

2.1 Surrender Route

The design of the site, the pollution prevention measures in place and the regular inspections and maintenance undertaken at the site for the lifetime of the environmental permit aimed to ensure that there were no unplanned releases from the permitted activity which could have potentially resulted in deterioration of the condition of the land. Despite these pollution prevention measures being in place an oil spill did occur on site from one of the engines for which there is not a record of intrusive investigations. As mentioned above SVWS have accepted liability for any contamination above baseline which includes any contamination which occurred as a result of the oil spill.

As SVWS have accepted liability for any contamination at the site, no intrusive investigations have been undertaken to support this surrender application and accordingly this application is being progressed as a low-risk surrender.

Pre-application discussions with NRW officer, Luke Burton, in February 2023 confirmed that the application to surrender the site's environmental permit could be made under the low-risk surrender route.

The applicable fee of £2,593 has been determined based on NRW's charging scheme which states (pg 16):

"For any other tier 2 and tier 3 facility for which the operator has received confirmation from NRW that intrusive investigation is not required in accordance with the criteria in box 1 of "Site condition report – guidance and templates", 2 (H5), version 5, published by NRW in October 2022, the sum of £2,593."

2.2 Application Contents

The surrender application comprises the following elements:

- Application forms (Parts A, E2 and F1); and
- Surrender Site Condition Report (SSCR).

2.1 Summary

The site has been operated in accordance with the requirements of the environmental permit and risk assessment. Pollution prevention measures have been in place to minimise the risk of unplanned releases which could have the potential to result in the deterioration of land quality. Specifically:

- The permitted activities have been operated and managed in accordance with a management system (MS);
- The MS includes an Accident Management Plan. This Plan includes details of hazards present on site, risks, and control measures to minimise the risks.
- Site security measures were in place to minimise the risk of unauthorised access, this includes security fencing around the perimeter of the site and security gate;
- Potentially harmful materials stored at the site were provided with suitable storage arrangements and with secondary containment, and bund where required;
- Spill kits were in place at the site for use in the event of an unplanned release;
- The operator performed regular checks on aspects of the plant and completes maintenance in accordance with the Maintenance Checklist;

- The operator maintained a diary in which all tasks undertaken are recorded.
- The site was subject to regular inspections by the EA and NRW, the findings of which have been reported in Compliance Assessment Reports (CARs). No significant issues have been identified by the EA or NRW during any of these site audits;
- The permitted activities have ceased at the site;
- The site has been decommissioned and Novera have removed their operational equipment;
- Entec UK Ltd’s 2007 Site Protection and Monitoring Programme refers to an area of historical oily staining on the concrete plinth around the engine³ that was identified during a previous site walkover. Entec refer to this being associated with a high-pressure oil escape from the engine container via the air vent. While intrusive investigations were proposed, no records of this having been undertaken can be found and the undertaking of investigations by Novera is now constrained due to not having access to the site. In any event, SVWS have committed to take on the liability in its application to NRW for an environmental permit for a replacement landfill GUP (ref. PAN 020287).

3.0 SITE DETAILS

Site Details: Silent Valley Gas Utilisation Plant	
Name of the applicant	Novera Energy Generation No. 2 Limited
Activity address	Silent Valley Gas Utilisation Plant Silent Valley Landfill, Cwm, Ebbw Vale, NP23 6PZ
National grid reference	SO 18350 07160
Document reference and dates for Site Condition Report at permit application and surrender	<ul style="list-style-type: none"> • 416.064772.00001/SSCR, April 2023
Document references for site plans (including location and boundaries)	<ul style="list-style-type: none"> • Appendix 01: Site Location and Permit Boundary Plan (extracted from Environmental Permit EPR/ZP3535SQ)

Note:

In Part A of the application form you must give us details of the site’s location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

³ Note – only one engine was present on the site at that time.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

4.0 CONDITION OF THE LAND AT PERMIT ISSUE

Silent Valley Gas Utilisation Plant: Condition of the land at permit issue	
<p>Environmental setting including:</p> <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>The environmental site setting information has been sourced from <i>Groundsure Location Intelligence Report</i>, as presented in Appendix 02 of this SSCR.</p> <p>Geology</p> <p>The landfill GUP is situated upon a cell of the landfill used for the disposal of inert waste.</p> <p>The underlying bedrock comprises the Rhonda Member-Sandstone.</p> <p>Hydrogeology</p> <p>The underlying bedrock has been classified by NRW as a Secondary A aquifer.</p> <p>The superficial drift deposits beneath the site are classified as a Secondary Undifferentiated Aquifer.</p> <p>The site is not located within a Source Protection Zone (SPZ) nor within 2km of a SPZ.</p> <p>There are no records of groundwater or potable water abstraction licenses within 500m of the site.</p> <p>There are 10 surface water abstractions recorded within 2000m of the site, the closest of which is:</p> <p>Silent Valley Waste Services Limited - 118m North West of the site, a historical surface water abstraction License No: 20/56/64/0030.</p> <p>Hydrology</p> <p>There are no surface water features on site. There are 26 recorded surface water features within 250m of the site, including:</p> <ul style="list-style-type: none"> • rivers (in all directions); • lake, loch or reservoir (south and northwest of the site); and <p>According to Natural Resources Wales Flood Risk Checker⁴ the site is at very low risk of flooding from rivers and the sea. The site is however located in at area classified as high risk for flooding from surface water and small watercourses.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land 	<p>The environmental site setting information has been sourced from <i>Groundsure Location Intelligence Report</i> (Appendix 02), Silent Valley Generation Plant- Site Closure Plan (Appendix 03) and the NRW Public Register⁵.</p>

⁴ <https://naturalresources.wales/flooding/check-your-flood-risk-by-postcode/?lang=en>

⁵ <https://publicregister.naturalresources.wales/>

- historical land-uses and associated contaminants
- any visual/olfactory evidence of existing contamination
- evidence of damage to pollution prevention measures

Site Land Use

The site was an unoccupied area of land likely to have been used for agricultural purposes from the earliest available records. Over the course of the late 1800's and 1900's, the Site has been subject to surface coal mining and waste disposal.

Disposal of non-hazardous waste continued within the landfill following on from historic disposal of industrial wastes (predominantly blast furnace slag, vegetable based oils) dating back to the 1930s. From circa 1962 infrastructure, including a tramway was developed on the site, which was associated with surface coal mining. The site has been used for disposal of municipal and industrial wastes since the early 1980s, following activities involving excavation and recovery of materials within the tip which occurred from the 1960s. From 1987, the tramway was dismantled and removed from the site. Entec suggest that the area upon which the site is located was restored using inert wastes. Follow restoration using inert waste, no changes occurred on site up until 2005.

Surrounding Land Use

From the earliest maps until construction of the landfill, the surrounding land was mostly open land thought to be in agricultural use. With the exception of the industrial works in Ebbw Vale located to the west of the site, which consists of a steel works, iron works and a colliery, which are present on maps as early as 1879. The immediate surrounding area has been used for disposal of municipal and industrial wastes since the early 1980s, following activities involving excavation and recovery of materials within the tip which occurred from the 1960s. Roads and a railway network have also been constructed across the area. Ebbw Vale continues to rapidly expand from this point, with further construction of transport networks, residential properties and industrial premises moving closer to the site.

Pollution History

Pollution Incidents

There are no pollution incidents recorded within 500m of the site recorded within the Groundsure report (Appendix 02).

There is reference made to an oil spill from an engine on Site within the Site Closure Plan for Silent Valley Generation Plant (Appendix 03).

Discharge Consents

- Four licensed discharge consents have been permitted within 500m of the site. Ebbw Vale Carn Tillery Mine circa 55m to the northwest was consented (since 09/09/1987) for discharge into the Ebbw River. The consent has now expired.
- There are no remaining active consents, all four have either expired or been revoked.

Contaminative Industrial Sites

Within 500m of the site lies 22 contaminative industrial sites, including:

	<ul style="list-style-type: none"> • Tramway Sidings (on site) • Unspecified Disused Tip (on site) • Refuse Heap (on site) • Unspecified Pit (258m south and 261m south) • Unspecified Heap (286m northeast) • Unspecified Ground Workings (315m northwest and 329m northwest) • Unspecified Quarry (326m west) • Unspecified Old Quarry (326m west) • Cuttings (411m west) <p><u>Integrated Pollution Prevention and Control sites</u></p> <ul style="list-style-type: none"> • There are no Integrated Pollution Prevention and Control (IPPC) A permits or B permits within 500m of the site. <p><u>Active Landfills</u></p> <p>The licence boundary for Novera’s Silent Valley Landfill site incorporates the Site area. The GUP is situated upon an inert cell of the landfill site. The wastes accepted at the landfill site includes Household, Commercial & Industrial waste types.</p> <p><u>Historical Landfills</u></p> <p>There are no historical landfills located within 500m of the site.</p> <p><u>Historical Waste Sites</u></p> <p>The site lies within 500m of three historical waste sites. The closest of which is:</p> <ul style="list-style-type: none"> • Silent Valley Landfill, Waste Transfer Station lies approximately 49m east of the site. <p><u>Licensed Waste Sites</u></p> <p>There are 12 of licensed waste sites situated within 500m of the site as follows, the closest of which is:</p> <ul style="list-style-type: none"> • Silent Valley Waste Services, Waunllwyd Landfill site, Disposal Landfill site, WML No: 30141 issued (22/02/1994).
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	None.
Baseline soil and groundwater reference data	Not applicable.
Supporting information	The environmental site setting information has been sourced from <i>Groundsure Location Intelligence Report (Appendix 02)</i> , Silent Valley

	Generation Plant- Site Closure Plan (Appendix 03) and the Environment Agency Public Register ⁶
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5.0 PERMITTED ACTIVITIES

Silent Valley Gas Utilisation Plant: Permitted Activities	
Permitted activities	Combustion of landfill gas for the purpose of electricity generation. This is a Directly Associated Activity to a non-hazardous landfill site.
Non-permitted activities undertaken	N/A
Document references for: <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<ul style="list-style-type: none"> • Appendix 01: Site Location and Permit Boundary Plan (extracted from Environmental Permit EPR/ EPR/ZP3535SQ)

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (Environmental Risk Assessment - EPR H1) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

6.0 Changes to the Activity

Changes to the Activity: Silent Valley Gas Utilisation Plant	
Have there been any changes to the activity boundary?	No
Have there been any changes to the permitted activities?	The environmental permit has been varied three times, once in 2010 in response to a change in name of the operator from Novera Energy No.2 Limited to Novera Energy Generation No.2 Limited, once in 2013 in response to changes to the Environmental Permitting Regulations bought in by the Industrial Emissions

⁶ <https://environment.data.gov.uk/public-register/view/index>

	Directive and finally in 2013 when a minor technical variation application was granted to replace gas engines and to add an emission point.
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	No
Checklist of supporting information	Not applicable

7.0 MEASURES TAKEN TO PROTECT THE LAND

Measures Taken to Protect Land: Silent Valley Gas Utilisation Plant

The Silent Valley Landfill Generation Plant was a landfill gas utilisation plant (GUP) comprising two no. gas engines, one no. transformer, bunded clean and waste oil storage tanks, above ground pipework, two gas boosters and one no. flare. It utilised landfill gas generated by the closed and restored Silent Valley non-hazardous landfill site (EPR ref. EPR/MP3835SV) operated by Silent Valley Waste Services Ltd (SVWS).

The GUP was operated in accordance with the requirements of environmental permit EPR/ZP3535SQ since May 2005.

The site, including all infrastructure, was newly constructed in 2005. Site surfacing comprised of gravel surfacing with concrete pads upon which infrastructure was sited.

Potentially harmful materials stored at the site were stored within tanks provided with secondary containment. All storage tanks were bunded and engines were within bunded containers.

Spill kits were in place at the site for use in the event of an unplanned release.

Wastes generated at the site were stored in suitable waste storage containers prior to the collection for off site management/disposal by an approved waste management contractor.

Activities at the site were managed and operated in accordance with a management system (MS). This includes periodic site checks of all equipment on site. All pipes on site were checked for leaks, site security was checked and noises or potential issues with the plant were checked.

The MS includes an Accident Management Plan. This Plan includes key site details of hazards present on site, risks, and control measures to minimise the risks. A copy of the Accident Management Plan is presented in Appendix 03.

The MS includes an Emergency Preparedness and Response procedure. This procedure describes the systems in place to identify emergency scenarios associated with accidents which can potentially have a health and safety or/and an environmental effect. The procedure also includes controls to prevent and mitigate the potential scenarios. A copy of the Emergency Preparedness and Response Procedure is presented in Appendix 04.

Site security measures were in place to minimise the risk of unauthorised access to the site. These measures included security fencing around the perimeter of the site and a security gate.

The operator was on site each week and performed weekly checks on aspects of the plant and completing maintenance as and when required in accordance with manufacturer requirements.

The permitted site was subject to regular inspections by the Environment Agency and Natural Resources Wales during its lifetime. The following requirements, specifically in relation to management of the site, as reported in the Compliance Assessment Reports (CAR) are summarised below:

- CAR_I/110630/ZP3535SQ, issued 30/06/2011

Infinis to consider the cost/benefits of an additional engine for 6-12 month period and to provide evidence to support extraction downtime period required for maintenance and confirm changes to maintenance scheduling. No breaches or no non-compliances were identified during the site inspection.

- CAR_I/120127/ZP3535SQ, issued 27/01/2012

A malfunction of the control system on the flare resulted in a notifiable shutdown of the plant in March 2011. Infinis were required to forward details of corrective actions taken in respect of the shut down on 23/3/11. Infinis also required to provide a service report containing the corrective measures and repairs detailed in the CAR. No non-compliances with permit identified. Emissions monitoring was compliant with ELVs.

A Part B Notification detailing the corrective actions taken to prevent a recurrence is provided as Appendix 08.

- CAR_NRW0026426, issued 11/05/2017:

No non-compliances with permit identified. Emissions monitoring was compliant with ELVs.

- CAR_NRW0033446, issued 07/02/2019:

No non-compliances with permit identified. Emissions monitoring was compliant with ELVs.

- CAR_NRW0036633, issued 24/11/2020:

No non-compliances with permit identified. Emissions monitoring was compliant with ELVs.

- CAR_NRW0040364, issued 01/11/2022:

This CAR notified Novera that if the lease was not extended beyond 11 December 2022, Novera would no longer meet the definition of operator from 12 December 2022. Novera were instructed that if they could no longer meet the definition of operator on 12 December 2022 they would need to confirm this to NRW by the 15/11/22 stating whether they will make or take part in an application to transfer the permit to another operator, or fully surrender the permit. However, if Novera would still meet the definition of operator on 12 December 2022 they would need to provide NRW with written evidence to support this by the 15/11/22. No non-compliances were recorded.

A copy of all the CAR's are presented in Appendices 06-07 & 09-12.

In summary, the pollution prevention measures in place at the site were subject to regular inspection and maintenance over the lifetime of the permitted activities to ensure continued protection of land. It is considered that as a result of these measures there has been no deterioration in land and/or groundwater quality at the site during the lifetime of the permit. As such, land and/or groundwater data to assess if there has been any deterioration of land quality is not deemed necessary.

Overall, it is considered that the condition of the land is in a 'satisfactory state' for the purpose of the EP surrender.

Appendix 01: Site Location and Permit Boundary Plan (extracted from Environmental Permit EPR/ EPR/ZP3535SQ)
Appendix 02: Groundsure Location Intelligence Report.
Appendix 03: Silent Valley Generation Plant- Site Closure Plan
Appendix 04: Accident Management Plan

	<p>Appendix 05: Emergency Preparedness and Response Procedure</p> <p>Appendix 06: Compliance Assessment Report 2011, report reference CAR_I/110630/ZP3535SQ</p> <p>Appendix 07: Compliance Assessment Report 2012, report reference CAR_I/120127/ZP3535SQ</p> <p>Appendix 08: Schedule 6 Part B Notification</p> <p>Appendix 09: Compliance Assessment Report 2017, report reference CAR_NRW0026426</p> <p>Appendix 10: Compliance Assessment Report 2019, report reference CAR_NRW0033446</p> <p>Appendix 11: Compliance Assessment Report 2020, report reference CAR_NRW0036633</p> <p>Appendix 12: Compliance Assessment Report 2022, report reference CAR_NRW0040364</p> <p>Appendix 13: Site Photographs (December 2022)</p>
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8.0 POLLUTION INCIDENTS AND REMEDIATION

Silent Valley Landfill Gas Utilisation Plant: Pollution incidents that may have had an impact on land, and their remediation

Entec UK Ltd's 2007 Site Protection and Monitoring Programme refers to an area of historical oily staining on the concrete plinth around the engine⁷ that was identified during a previous site walkover. Entec refer to this being associated with a high-pressure oil escape from the engine container via the air vent. While intrusive investigations were proposed, no records of this having been undertaken can be found and the undertaking of investigations by Novera is now constrained due to not having access to the site. In any event, SVWS have committed to take on the liability in its application to NRW for an environmental permit for a replacement landfill GUP (ref. PAN 020287).

Checklist of supporting information

- Not applicable.

9.0 SOIL GAS AND WATER QUALITY MONITORING

Silent Valley Landfill Gas Utilisation Plant: Soil Gas and Water Quality Monitoring (where undertaken)

Soil gas and/or water quality monitoring has not been undertaken at the site during the lifetime of the EP.

Checklist of supporting information

- Not applicable.

10.0 DECOMMISSIONING AND REMOVAL OF POLLUTION RISK

Silent Valley Landfill Gas Utilisation Plant: Decommissioning and removal of pollution risk

The site has been decommissioned. The GUP infrastructure comprising two no. gas engines, one no. transformer, banded clean and waste oil storage tanks and above ground pipework have been removed. The flare and booster (regulated by the landfill operators permit) were left in place. The engines and oil tanks were all drained on concrete pads or within the bunds prior to removal. No pollution risks have been left on site. Please see Appendix 13 for site photographs which were taken in December 2022 after the site had been decommissioned.

Checklist of supporting information

- Not applicable.

⁷ Note – only one engine was present on the site at that time.

11.0 REFERENCE DATA AND REMEDIATION

Silent Valley Landfill Gas Utilisation Plant: Reference data and remediation (where relevant)

The collection of land and/or groundwater data has not been undertaken as outlined in Section 8 of this SSCR. Despite the previous occurrence of an unplanned oil spill, SVWS have agreed to take on liability for the baseline condition of the site.

Overall, it is considered that the condition of the land is in a 'satisfactory state' for the purpose of the EP surrender.

Checklist of supporting information

- Not applicable – reference should be made to sections 7-10 of this SSCR.

12.0 STATEMENT OF SITE CONDITION

Silent Valley Landfill Gas Utilisation Plant: Statement of site condition

The permitted activities have ceased at the site. Decommissioning is complete and all pollution risks at the site have been removed. Measures taken to protect the land including the pollution prevention control measures and maintenance of these have ensured that the quality of the land has been protected and the site is being returned in a satisfactory condition with regard to its condition at the point of permit issue.

Based on information provided in sections 7-10 of this SSCR it is considered that the condition of the land is in a 'satisfactory state' for the purpose of the EP surrender.

13.0 Conclusion

The permitted activities operated by Novera have ceased at the site.

The plant operated by Novera has been decommissioned with infrastructure removed.

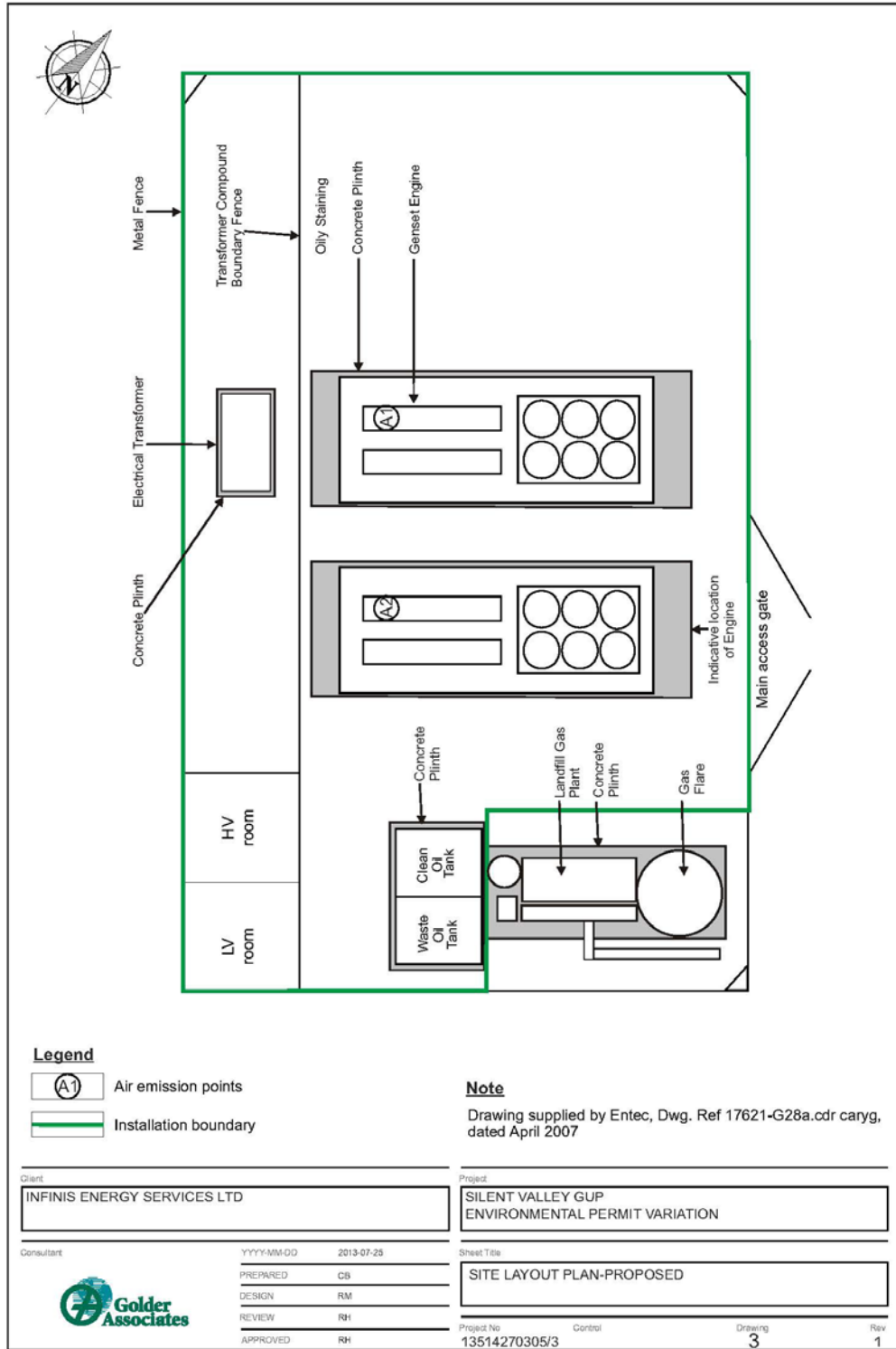
Suitable pollution prevention measures were in place for the lifetime of the environmental permit and were subject to regular inspection and maintenance.

Entec UK Ltd's 2007 Site Protection and Monitoring Programme refers to an area of historical oily staining on the concrete plinth around the engine that was identified during a previous site walkover. Entec refer to this being associated with a high-pressure oil escape from the engine container via the air vent. While intrusive investigations were proposed, no records of this having been undertaken can be found and the undertaking of investigations by Novera is now constrained due to not having access to the site. In any event, SVWS have committed to take on the liability in its application to NRW for an environmental permit for a replacement landfill GUP (ref. PAN 020287).

As SVWS have accepted liability for any contamination at the site, no intrusive investigations have been undertaken to support this surrender application and accordingly this application is being progressed as a low-risk surrender.

APPENDIX 01

Site Location and Permit Boundary Plan (extracted from Environmental Permit EPR/ZP3535SQ)



The plan above shows the layout of the gas engines in the Gas Utilisation Plant.

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END OF PERMIT

APPENDIX 02

Groundsure Location Intelligence Report

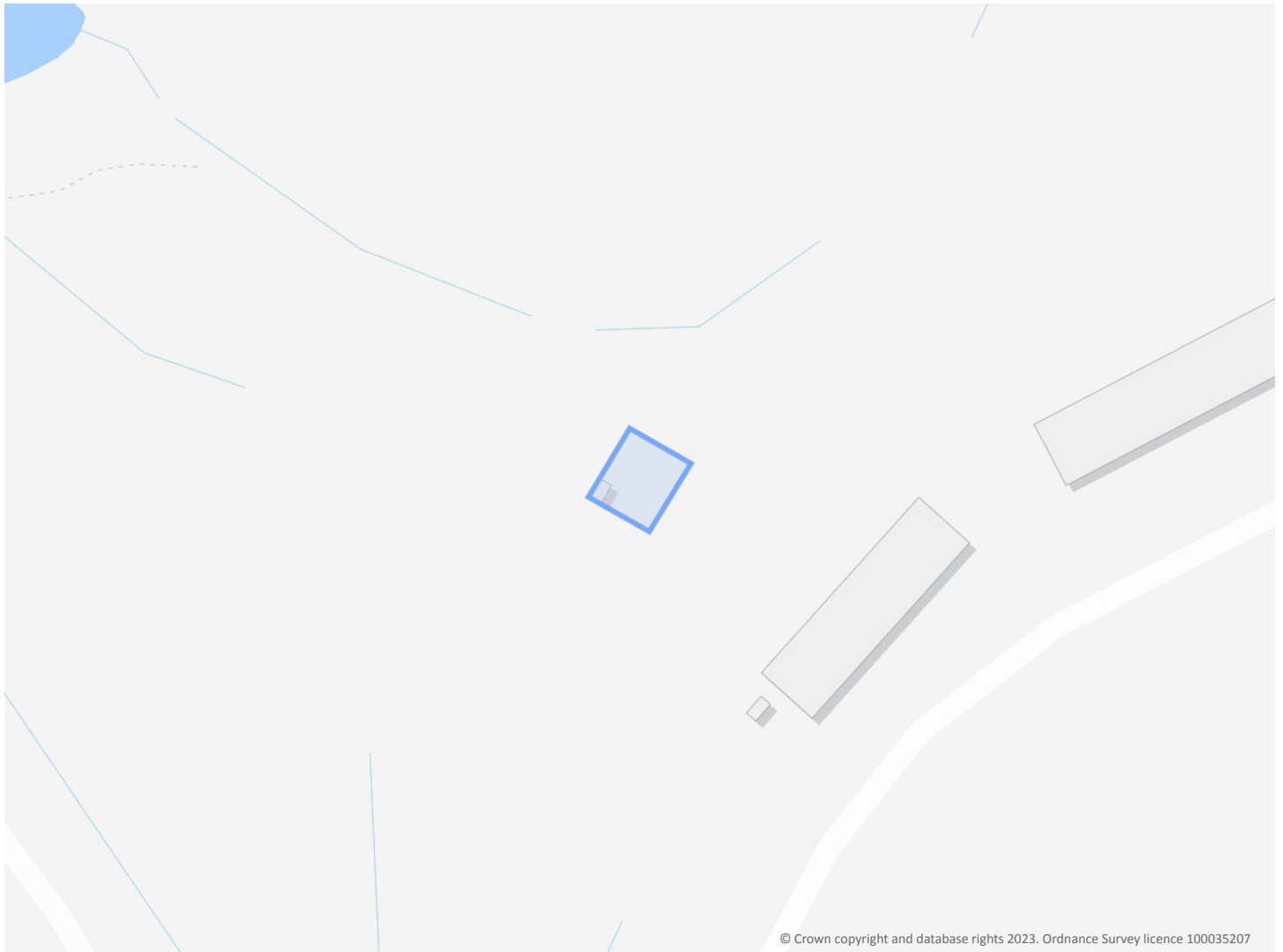
unspecified

Order Details

Date: 05/04/2023
Your ref: EMS_857875_1060816
Our Ref: EMS-857875_1099915

Site Details

Location: 318271 207275
Area: 0.05 ha
Authority: [Blaenau Gwent County Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	4	0	0	17	-
15	1.2	Historical tanks	0	0	0	0	-
16	1.3	Historical energy features	0	0	0	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
17	2.1	<u>Historical industrial land uses</u>	4	0	0	18	-
18	2.2	Historical tanks	0	0	0	0	-
19	2.3	Historical energy features	0	0	0	0	-
19	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	<u>Active or recent landfill</u>	1	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	<u>Historical landfill (EA/NRW records)</u>	1	0	1	0	-
22	3.5	<u>Historical waste sites</u>	0	1	0	2	-
23	3.6	<u>Licensed waste sites</u>	0	0	0	12	-
26	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
27	4.1	<u>Recent industrial land uses</u>	0	1	0	-	-
28	4.2	Current or recent petrol stations	0	0	0	0	-
28	4.3	Electricity cables	0	0	0	0	-
28	4.4	Gas pipelines	0	0	0	0	-
28	4.5	Sites determined as Contaminated Land	0	0	0	0	-



28	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
29	4.7	Regulated explosive sites	0	0	0	0	-
29	4.8	Hazardous substance storage/usage	0	0	0	0	-
29	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
29	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
29	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
30	4.12	Radioactive Substance Authorisations	0	0	0	0	-
30	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	3	-
31	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
31	4.15	Pollutant release to public sewer	0	0	0	0	-
31	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	4.17	List 2 Dangerous Substances	0	0	0	0	-
31	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
32	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
33	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
35	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
36	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
37	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
37	5.5	Groundwater vulnerability- local information	None (within 0m)				
38	5.6	Groundwater abstractions	0	0	0	0	0
39	5.7	<u>Surface water abstractions</u>	0	0	2	0	8
41	5.8	Potable abstractions	0	0	0	0	0
41	5.9	Source Protection Zones	0	0	0	0	-
41	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
42	6.1	<u>Water Network (OS MasterMap)</u>	0	3	43	-	-



46	6.2	<u>Surface water features</u>	0	2	24	-	-
46	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
47	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
47	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
48	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
48	7.2	Historical Flood Events	0	0	0	-	-
48	7.3	Flood Defences	0	0	0	-	-
49	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
49	7.5	Flood Storage Areas	0	0	0	-	-
50	7.6	Flood Zone 2	None (within 50m)				
50	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
51	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
52	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
53	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	1	1
54	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
54	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
54	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
55	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	1	0
55	10.7	<u>Designated Ancient Woodland</u>	0	0	0	1	52
57	10.8	Biosphere Reserves	0	0	0	0	0
57	10.9	Forest Parks	0	0	0	0	0
58	10.10	Marine Conservation Zones	0	0	0	0	0
58	10.11	Green Belt	0	0	0	0	0
58	10.12	Proposed Ramsar sites	0	0	0	0	0



58	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
58	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
59	10.15	Nitrate Sensitive Areas	0	0	0	0	0
59	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
60	10.17	SSSI Impact Risk Zones	0	-	-	-	-
60	10.18	SSSI Units	0	0	0	0	0

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
61	11.1	World Heritage Sites	0	0	0	-	-
61	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
61	11.3	National Parks	0	0	0	-	-
61	11.4	Listed Buildings	0	0	0	-	-
62	11.5	Conservation Areas	0	0	0	-	-
62	11.6	Scheduled Ancient Monuments	0	0	0	-	-
62	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
63	<u>12.1</u>	<u>Agricultural Land Classification</u>	Grade 5 (within 250m)				
64	<u>12.2</u>	<u>Open Access Land</u>	0	2	0	-	-
64	12.3	Tree Felling Licences	0	0	0	-	-
64	12.4	Environmental Stewardship Schemes	0	0	0	-	-
65	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
66	13.1	Priority Habitat Inventory	0	0	0	-	-
66	13.2	Habitat Networks	0	0	0	-	-
66	13.3	Open Mosaic Habitat	0	0	0	-	-
66	13.4	Limestone Pavement Orders	0	0	0	-	-

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
67	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
68	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	1	0	0	2	-
69	<u>14.3</u>	<u>Superficial geology (10k)</u>	0	0	2	2	-



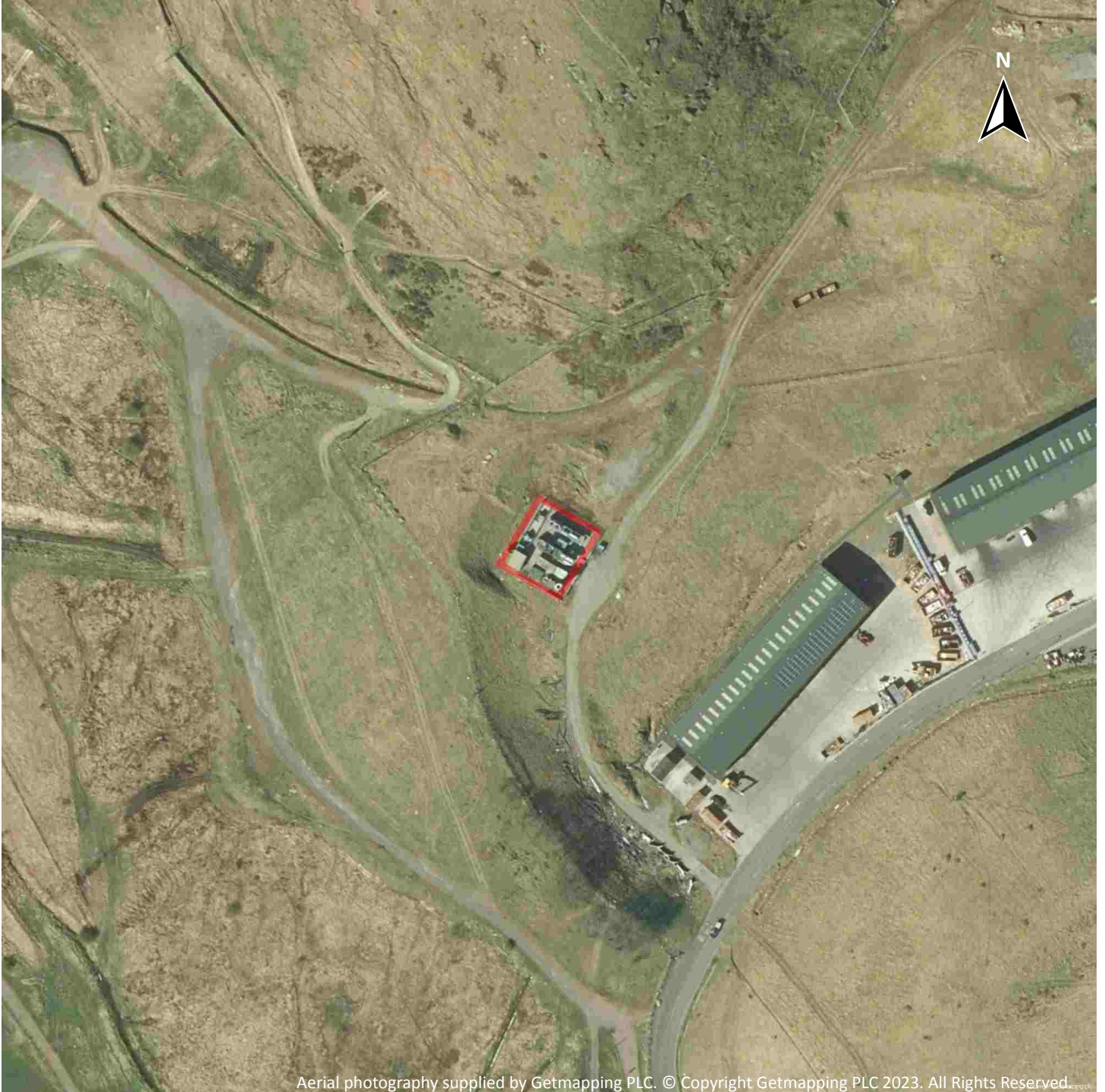
70	14.4	Landslip (10k)	0	0	1	1	-
71	14.5	Bedrock geology (10k)	1	1	3	8	-
72	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
73	15.1	50k Availability	Identified (within 500m)				
74	15.2	Artificial and made ground (50k)	1	0	0	0	-
75	15.3	Artificial ground permeability (50k)	1	0	-	-	-
76	15.4	Superficial geology (50k)	0	1	1	0	-
77	15.5	Superficial permeability (50k)	Identified (within 50m)				
77	15.6	Landslip (50k)	0	0	1	1	-
77	15.7	Landslip permeability (50k)	None (within 50m)				
78	15.8	Bedrock geology (50k)	1	1	3	8	-
79	15.9	Bedrock permeability (50k)	Identified (within 50m)				
80	15.10	Bedrock faults and other linear features (50k)	0	1	2	9	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
81	16.1	BGS Boreholes	0	0	2	-	-
Page	Section	Natural ground subsidence					
83	17.1	Shrink swell clays	Very low (within 50m)				
84	17.2	Running sands	Very low (within 50m)				
86	17.3	Compressible deposits	Very low (within 50m)				
88	17.4	Collapsible deposits	Very low (within 50m)				
89	17.5	Landslides	Low (within 50m)				
91	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
92	18.1	Natural cavities	0	0	0	0	-
93	18.2	BritPits	0	1	0	4	-
94	18.3	Surface ground workings	3	0	18	-	-
95	18.4	Underground workings	0	0	0	0	28
96	18.5	Historical Mineral Planning Areas	0	0	0	0	-



96	18.6	<u>Non-coal mining</u>	0	0	0	1	0
97	18.7	Mining cavities	0	0	0	0	0
97	18.8	JPB mining areas	None (within 0m)				
97	18.9	<u>Coal mining</u>	Identified (within 0m)				
98	18.10	Brine areas	None (within 0m)				
98	18.11	Gypsum areas	None (within 0m)				
98	18.12	Tin mining	None (within 0m)				
98	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
99	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
101	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
101	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
101	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
102	21.1	Underground railways (London)	0	0	0	-	-
102	21.2	Underground railways (Non-London)	0	0	0	-	-
103	21.3	Railway tunnels	0	0	0	-	-
103	21.4	<u>Historical railway and tunnel features</u>	2	0	0	-	-
103	21.5	Royal Mail tunnels	0	0	0	-	-
103	21.6	Historical railways	0	0	0	-	-
104	21.7	Railways	0	0	0	-	-
104	21.8	Crossrail 1	0	0	0	0	-
104	21.9	Crossrail 2	0	0	0	0	-
104	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 14/04/2020

Site Area: 0.05ha



Recent site history - 2017 aerial photograph

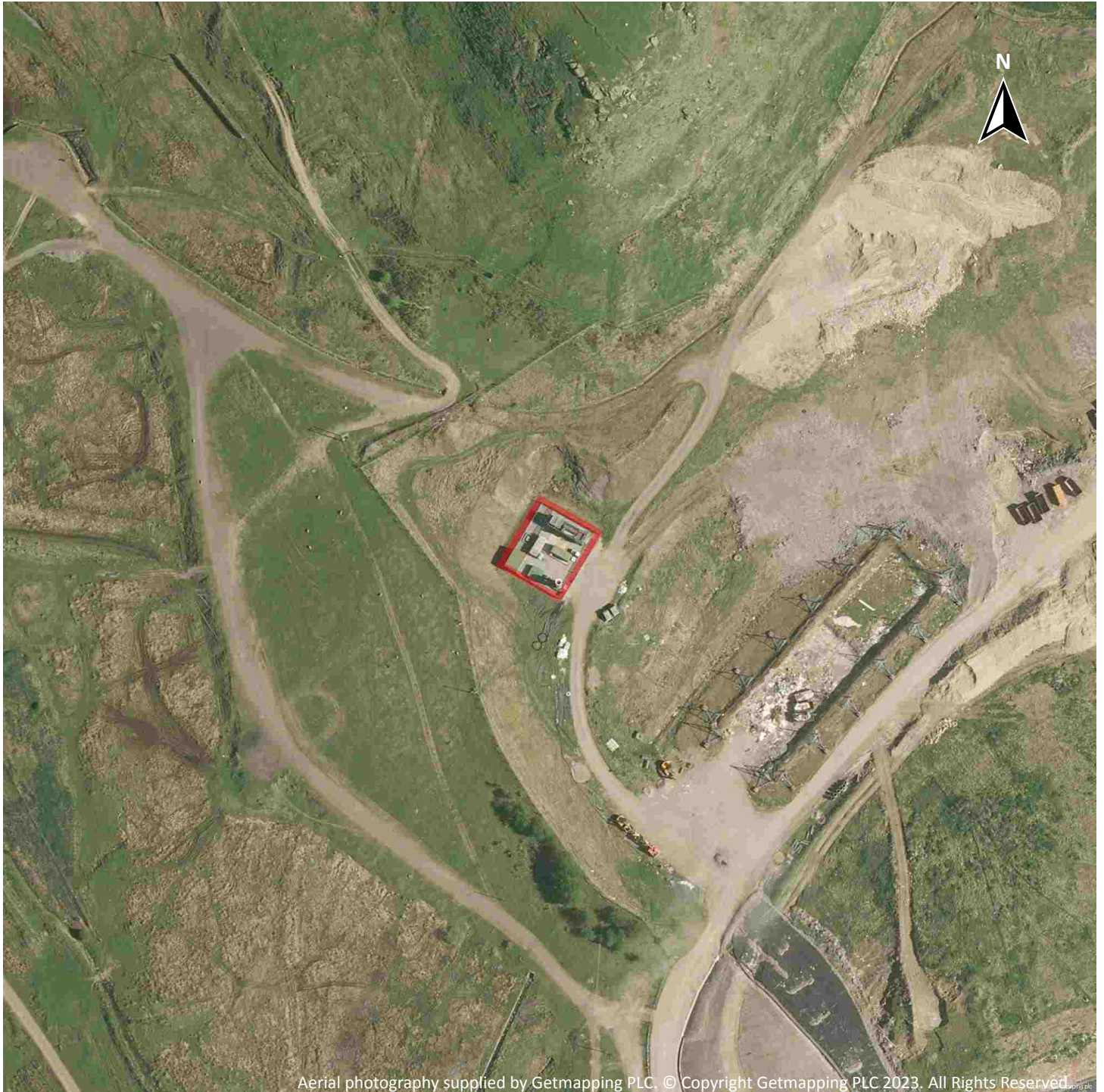


Capture Date: 17/06/2017

Site Area: 0.05ha



Recent site history - 2010 aerial photograph



Capture Date: 22/05/2010

Site Area: 0.05ha



Recent site history - 2001 aerial photograph



Capture Date: 27/08/2001

Site Area: 0.05ha



Recent site history - 2000 aerial photograph

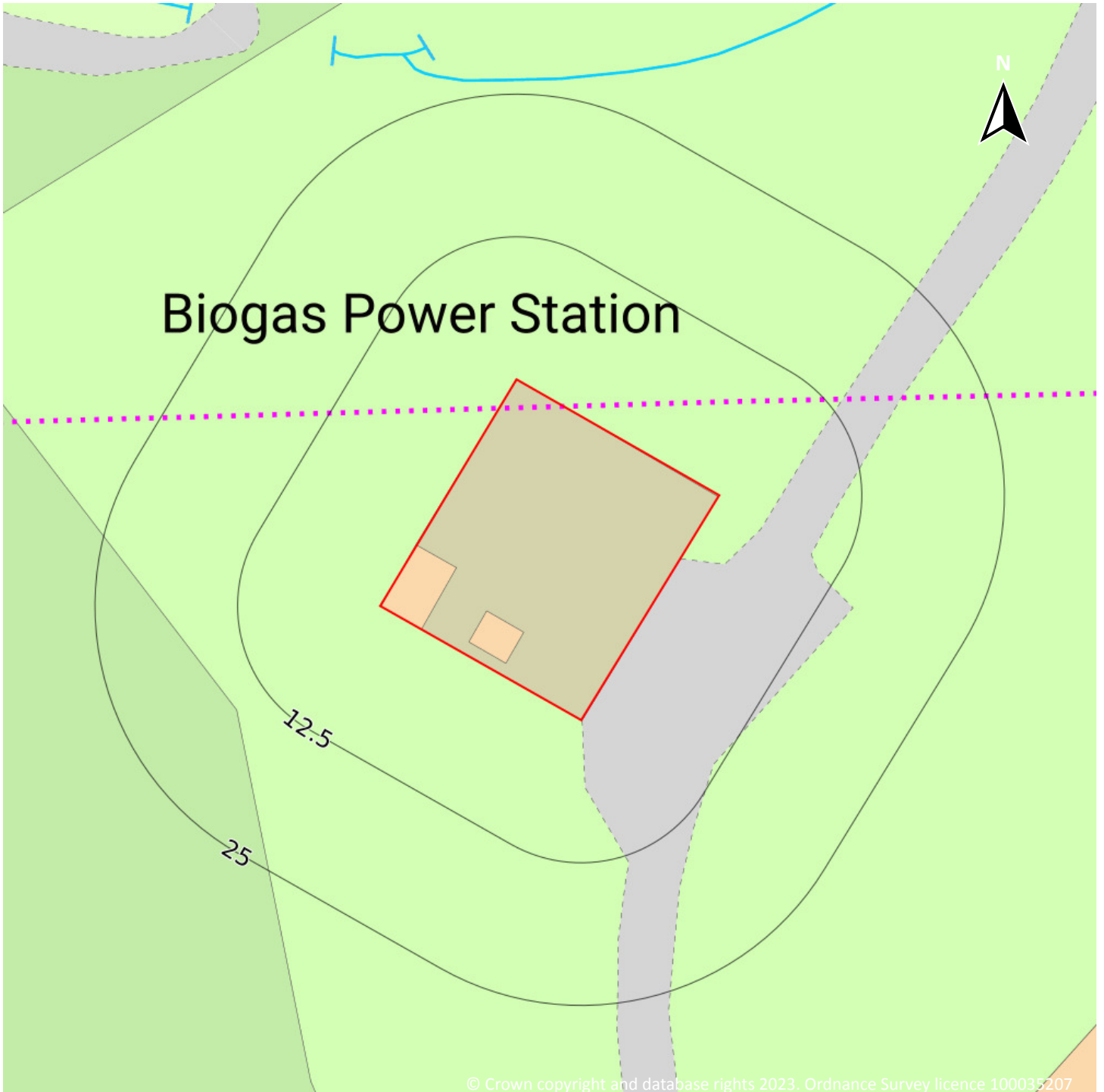


Capture Date: 18/06/2000

Site Area: 0.05ha



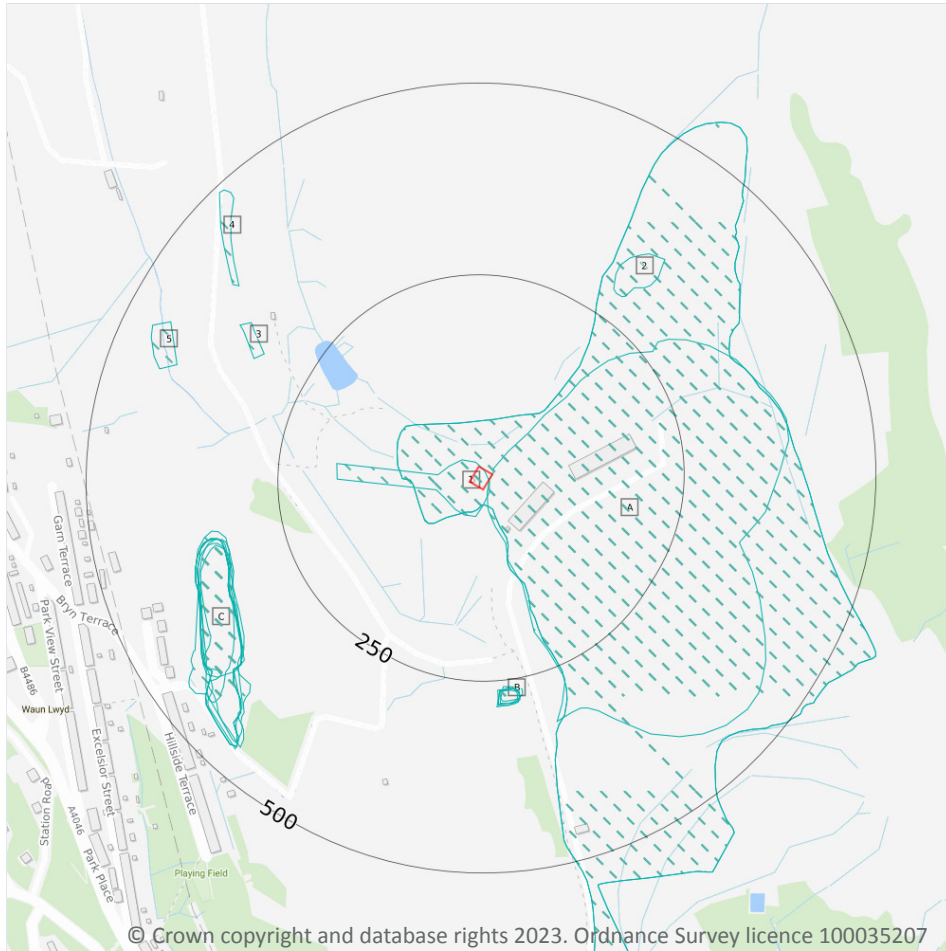
OS MasterMap site plan



Site Area: 0.05ha



1 Past land use



— Site Outline

Search buffers in metres (m)

Historical industrial land uses

1.1 Historical industrial land uses

Records within 500m **21**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
1	On site	Tramway Sidings	1948	1014680

ID	Location	Land use	Dates present	Group ID
A	On site	Refuse Heap	1965	1019444
A	On site	Unspecified Disused Tip	1979	1076125
A	On site	Unspecified Disused Tip	1992	1122230
B	258m S	Unspecified Pit	1922	1066682
B	261m S	Unspecified Pit	1965	1148392
B	262m S	Unspecified Pit	1992	1059168
B	263m S	Unspecified Pit	1979	1143793
B	264m S	Unspecified Pit	1948	1105886
2	286m NE	Unspecified Heap	1965	1000923
3	315m NW	Unspecified Ground Workings	1899	997172
C	326m W	Unspecified Quarry	1895 - 1899	1097886
C	326m W	Unspecified Old Quarry	1916	1124032
C	328m W	Unspecified Ground Workings	1965	997175
C	329m W	Unspecified Old Quarry	1948	1045371
C	331m W	Unspecified Old Quarry	1922	1106370
C	331m W	Unspecified Old Quarry	1948	1119913
C	331m W	Unspecified Old Quarry	1915	1143200
C	331m W	Unspecified Old Quarry	1938	1069353
4	392m NW	Unspecified Ground Workings	1899	997170
5	411m W	Cuttings	1979	994422

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	0
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

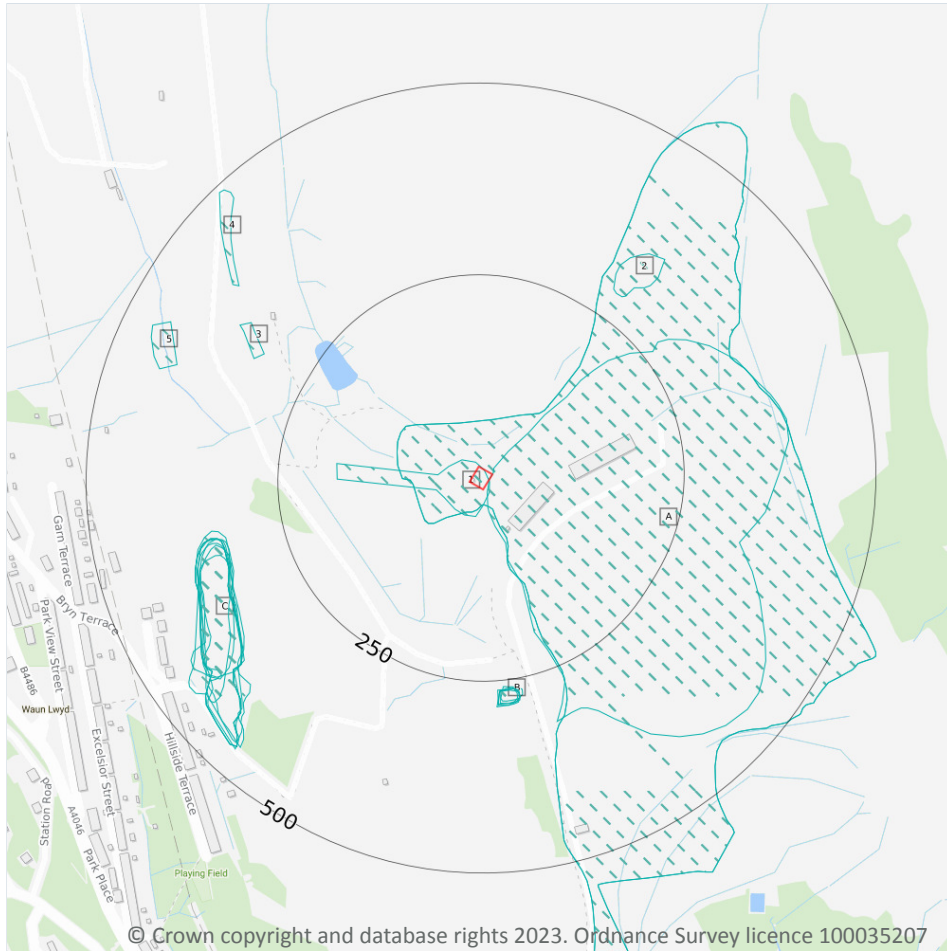
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

2.1 Historical industrial land uses

Records within 500m **22**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 17**

ID	Location	Land Use	Date	Group ID
1	On site	Tramway Sidings	1948	1014680
A	On site	Unspecified Disused Tip	1992	1122230
A	On site	Unspecified Disused Tip	1979	1076125

ID	Location	Land Use	Date	Group ID
A	On site	Refuse Heap	1965	1019444
B	258m S	Unspecified Pit	1922	1066682
B	261m S	Unspecified Pit	1965	1148392
B	262m S	Unspecified Pit	1992	1059168
B	263m S	Unspecified Pit	1979	1143793
B	264m S	Unspecified Pit	1948	1105886
2	286m NE	Unspecified Heap	1965	1000923
3	315m NW	Unspecified Ground Workings	1899	997172
C	326m W	Unspecified Quarry	1899	1097886
C	326m W	Unspecified Old Quarry	1916	1124032
C	328m W	Unspecified Ground Workings	1965	997175
C	329m W	Unspecified Old Quarry	1948	1045371
C	331m W	Unspecified Old Quarry	1922	1106370
C	331m W	Unspecified Old Quarry	1948	1119913
C	331m W	Unspecified Old Quarry	1915	1143200
C	331m W	Unspecified Old Quarry	1938	1069353
C	332m W	Unspecified Quarry	1895	1097886
4	392m NW	Unspecified Ground Workings	1899	997170
5	411m W	Cuttings	1979	994422

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

0

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

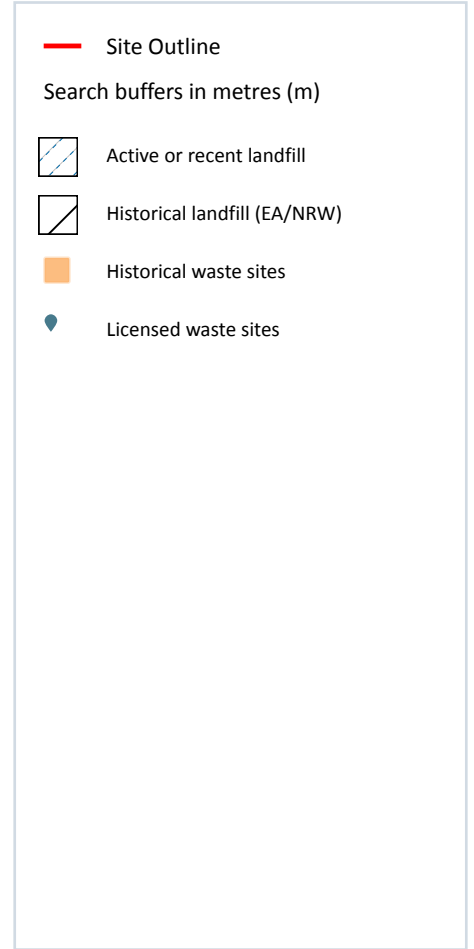
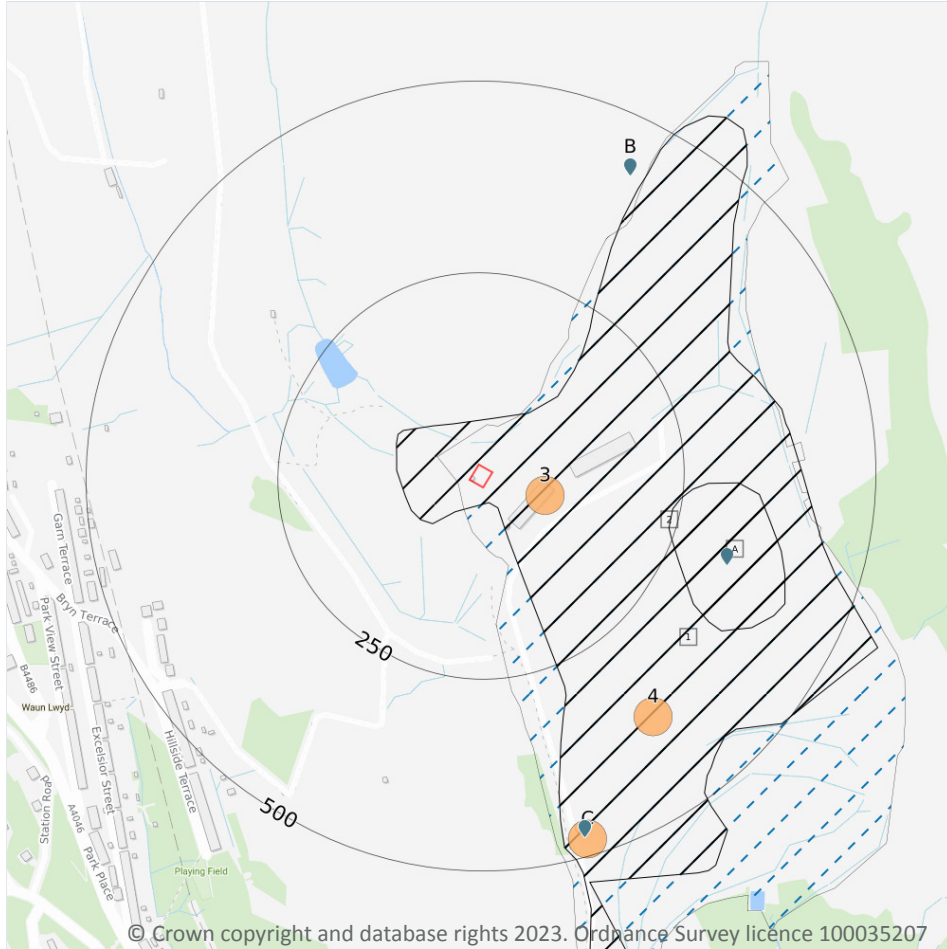
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Details	
1	On site	<p>Operator: Silent Valley Waste Services Limited Site Address: Beechwood House, Cemetery Road, Cwm, Ebbw Vale, Blaenau Gwent, NP23 6PZ</p>	<p>WML Number: 30141 EPR Reference: SIL006 Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: EAEPR\EA/EPR/JP3899FN/V002</p>



This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Details		
2	On site	Site Address: Silent Valley No.1, Waunllwyd, Hermon, Carmarthen Licence Holder Address: -	Waste Licence: Yes Site Reference: CP5, LF/A/2 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 19/06/1977 Licence Surrender: 29/11/1990	Operator: - Licence Holder: Carmarthenshire County Council First Recorded 01/01/1900 Last Recorded: 31/12/1980
A	239m E	Site Address: Silent Valley No.2, Cwm, Ebbw Vale, Carmarthen Licence Holder Address: -	Waste Licence: Yes Site Reference: CPA 22 Waste Type: Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/01/1982 Licence Surrender: 21/02/1994	Operator: - Licence Holder: Bleanau Gwent Borough Council First Recorded 01/01/1985 Last Recorded: 21/02/1994



This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

3

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Address	Further Details	Date
3	49m E	Site Address: Land Adjacent To, Silent Valley Landfill, Waste Transfer Station, Cwm, Ebbw Vale, Gwent, NP23 6PZ	Type of Site: Waste Transfer Station (Extension) Planning application reference: C/2015/0057 Description: Scheme comprises extension to the existing Waste Transfer Station comprising of reinforced concrete slabs, portal framed buildings, pre-cast concrete A-frames, electrical and water supplies, associated drainage works and welfare facilities, parking and offices The associated works include sewer systems, landscaping, infrastructure, enabling and access roads.. Data source: Historic Planning Application Data Type: Point	12/06/2015
4	347m SE	Site Address: Land within Silent Valley, Site, Immediately North of, Landfill, Cwm, EBBW VALE, Gwent, NP23	Type of Site: Waste Transfer Station Planning application reference: C/2011/0232 Description: Scheme comprises construction of a waste transfer station for receipt, storage and bulking of local authority household residual wastes together with an element commercial / industrial waste for onward transport to a treatment and/or disposal facility. A n application (ref: C/2011/0232) for detailed planning permission was granted by Blaenau Gwent B.C. The start date, contract period and project value are for guideline only. Detailed plans approved. Data source: Historic Planning Application Data Type: Point	01/05/2012
C	453m S	Site Address: Landfill Site, Cwm, EBBW VALE, Gwent, NP23 7	Type of Site: Recycling Bay Planning application reference: 97/0167 Description: Erection of a recycling bay for waste transfer station. An application (ref: 97/0167) for Detailed Planning permission was submitted to Blaenau Gwent B.C. on 9th June 1997. Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



3.6 Licensed waste sites

Records within 500m
12

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 20**

ID	Location	Details		
A	324m E	Site Name: Silent Valley Waste Services, Waunllwyd Landfill Site Site Address: Waunllwyd Landfill Site, Cemetery Road, Waunllwyd, Ebbw Vale, Gwent, NP23 4TN Correspondence Address: Beechwood House, Cwm, Ebbw Vale, Gwent, NP23 6PE	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIL006 EPR reference: - Operator: Silent Valley Waste Services Waste Management licence No: 30141 Annual Tonnage: 306000	Issue Date: 22/02/1994 Effective Date: - Modified: 28/03/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	435m NE	Site Name: Silent Valley Cwm Civic Amenity Site Site Address: Cwm Civic Amenity Site, Beechwood House, Cwm, Ebbw Vale, NP3 6PZ Correspondence Address: Beechwood House, Cwm, Ebbw Vale, NP3 6PZ	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIL003 EPR reference: - Operator: Silent Valley Waste Services Waste Management licence No: 30142 Annual Tonnage: 3500	Issue Date: 05/08/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	435m NE	Site Name: Silent Valley Cwm Civic Amenity Site Site Address: Cwm Civic Amenity Site, Beechwood House, Cwm, Ebbw Vale, NP3 6PZ Correspondence Address: Beechwood House, Cwm, Ebbw Vale, NP3 6PZ	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIL003 EPR reference: - Operator: Silent Valley Waste Services Waste Management licence No: 30142 Annual Tonnage: 3500	Issue Date: 05/08/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	462m S	Site Name: Silent Valley Cwm Treatment Plant Site Address: Cwm Treatment Plant, Cemetery Road, Waunllwyd, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIL011 EPR reference: MP3895FT/A001 Operator: Silent Valley Waste Services Ltd Waste Management licence No: 30207 Annual Tonnage: 24500	Issue Date: 01/09/1998 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Beechwood House, Cwm, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Blaenau Gwent County Borough Council Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 18/10/2022 Effective Date: 18/10/2022 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Cwm, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 13/02/2017 Effective Date: 13/02/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Cwm, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 13/02/2017 Effective Date: 13/02/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Cwm, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: - Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: - Annual Tonnage: 74999	Issue Date: 30/11/2020 Effective Date: 30/11/2020 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	463m S	Site Name: - Site Address: Silent Valley Cwm Treatment Plant, Waunllwyd, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: 0 Annual Tonnage: 74999	Issue Date: 30/10/2015 Effective Date: 30/10/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Cwm, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: - Waste Management licence No: 30207 Annual Tonnage: 74999	Issue Date: 13/02/2017 Effective Date: 13/02/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective
C	463m S	Site Name: Silent Valley Cwm Treatment Plant Site Address: Silent Valley Waste Services Ltd, Silent Valley Cwm Treatment Plant, Waunllwyd, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: 30207 Annual Tonnage: 24500	Issue Date: 10/09/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective



ID	Location	Details		
C	463m S	Site Name: - Site Address: Silent Valley Waste Transfer station, Cwm, Blaenau Gwent, Ebbw Vale, Blaenau Gwent, NP3 6PZ Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3895FT EPR reference: - Operator: Silent Valley Waste Services Ltd Waste Management licence No: 30207 Annual Tonnage: 74999	Issue Date: 13/02/2017 Effective Date: 13/02/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective

This data is sourced from the Environment Agency and Natural Resources Wales.

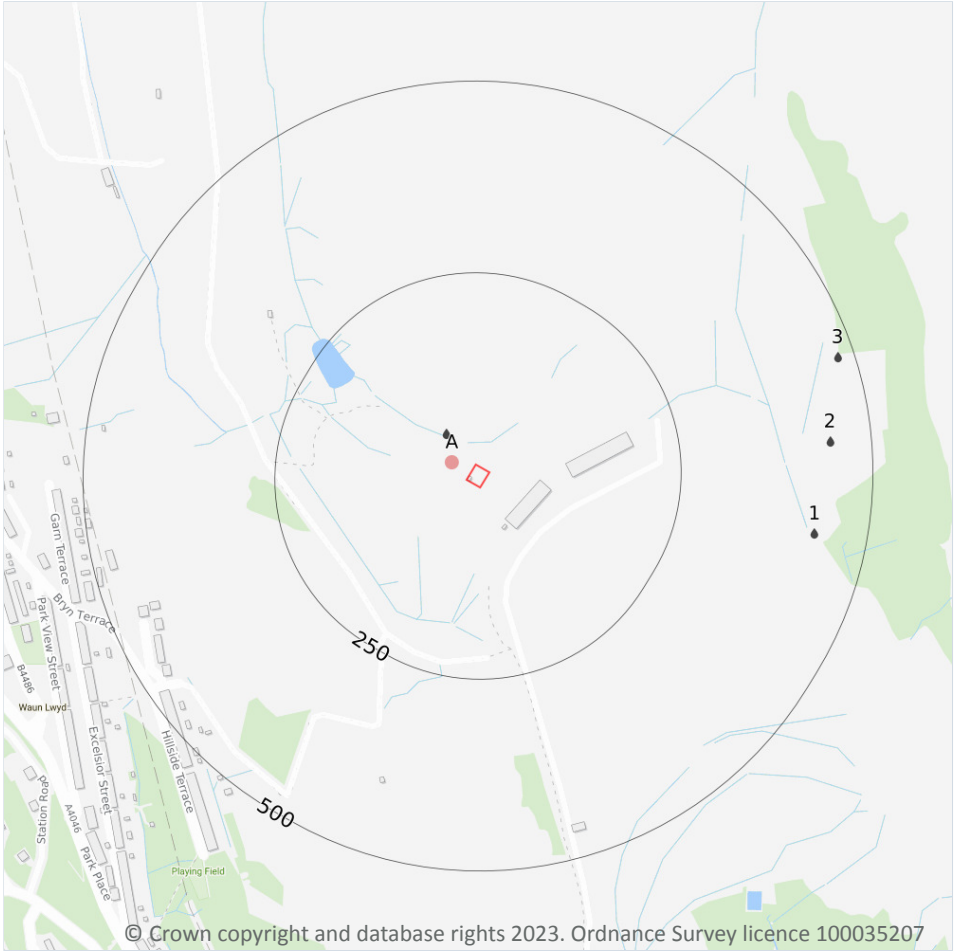
3.7 Waste exemptions

Records within 500m	0
----------------------------	----------

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m **1**

Current potentially contaminative industrial sites.
Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Company	Address	Activity	Category
A	28m NW	Biogas Power Station	Gwent, NP13	Energy Production	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
---------------------	---

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
---------------------	---

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
---------------------	---

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
---------------------	---

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
---------------------	---

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m **0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m **0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m **0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m **0**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m **0**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m	0
----------------------------	----------

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	4
----------------------------	----------

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Address	Details	
A	55m NW	EBBW VALE CARN TILLERY MINE, CARN TILLERY MINE	Effluent Type: UNSPECIFIED Permit Number: AN0038901 Permit Version: 1 Receiving Water: EBBW	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 09/09/1987 Effective Date: 09/09/1987 Revocation Date: 06/03/1995
1	431m E	SLAG TIP SILENT VALLEY WASTE SITE, SILENT VALLEY WASTE SITE, SILENT VALLEY, CWM, EBBW VALE, NP23 6LA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: AN0311301 Permit Version: 1 Receiving Water: NANT MERDDOG	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 23/08/2001 Effective Date: 23/08/2001 Revocation Date: 06/06/2008
2	445m E	SILENT VALLEY MINE-PT 1	Effluent Type: UNSPECIFIED Permit Number: AC0139501 Permit Version: 1 Receiving Water: NANT MERDDOG	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 05/09/1983 Effective Date: 05/09/1983 Revocation Date: 15/11/1994
3	477m E	SILENT VALLEY MINE-PT 2	Effluent Type: UNSPECIFIED Permit Number: AC0139502 Permit Version: 1 Receiving Water: NANT MERDDOG	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 05/09/1983 Effective Date: 05/09/1983 Revocation Date: 15/11/1994

This data is sourced from the Environment Agency and Natural Resources Wales.



4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
----------------------------	----------

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0
----------------------------	----------

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0
----------------------------	----------

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0
----------------------------	----------

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0
----------------------------	----------

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

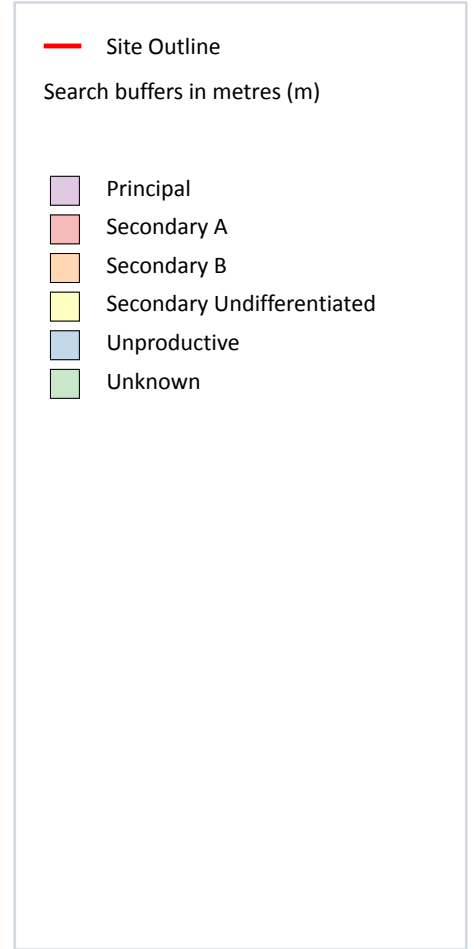
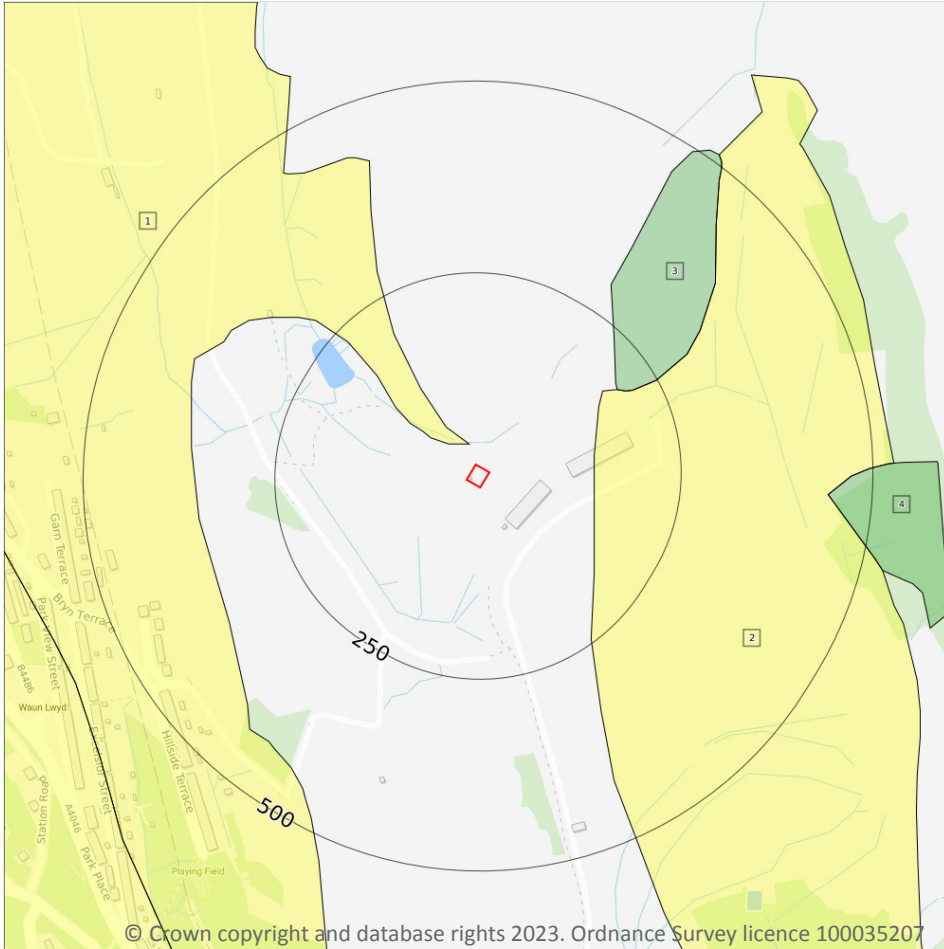
Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

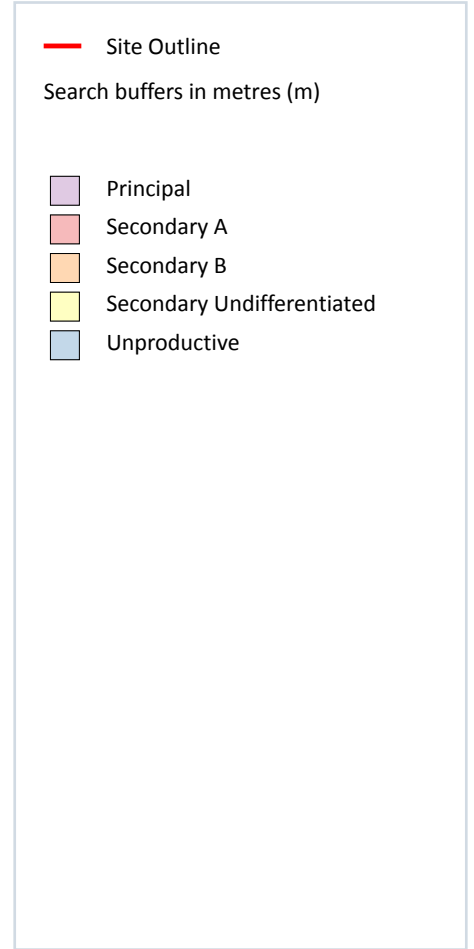
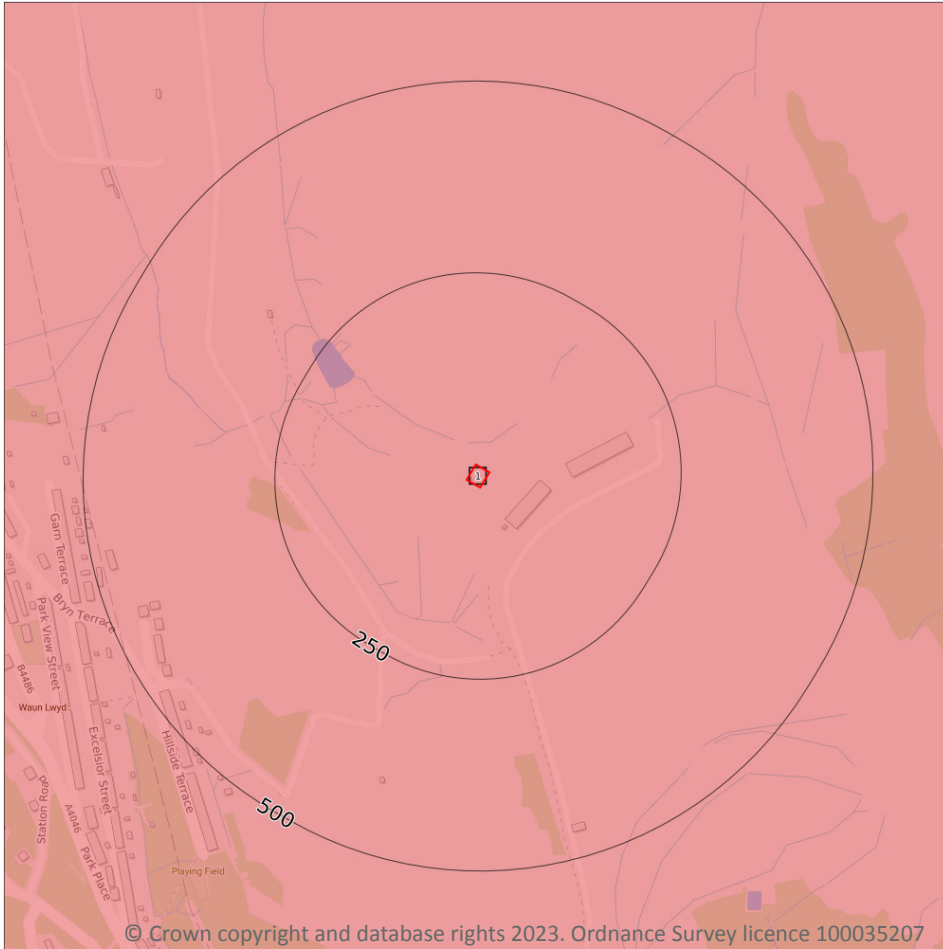
Features are displayed on the Hydrogeology map on **page 33**

ID	Location	Designation	Description
1	28m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	137m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	199m NE	Unknown	Unknown
4	443m E	Unknown	Unknown

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

1

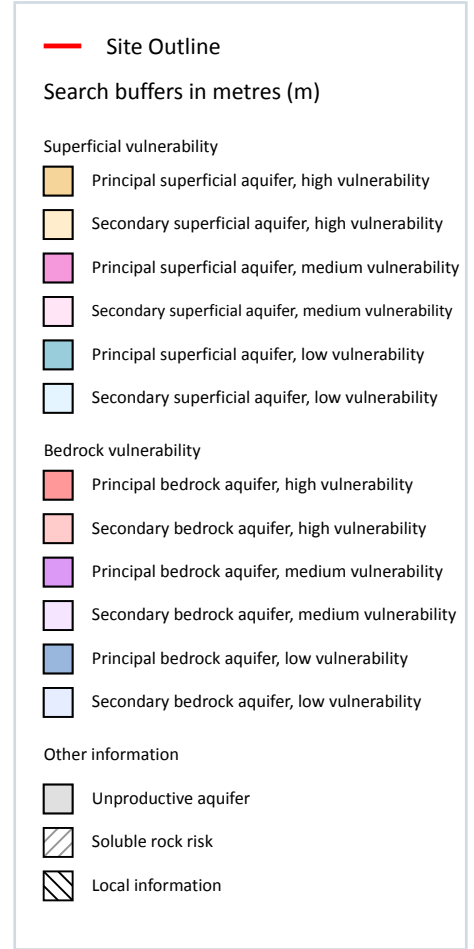
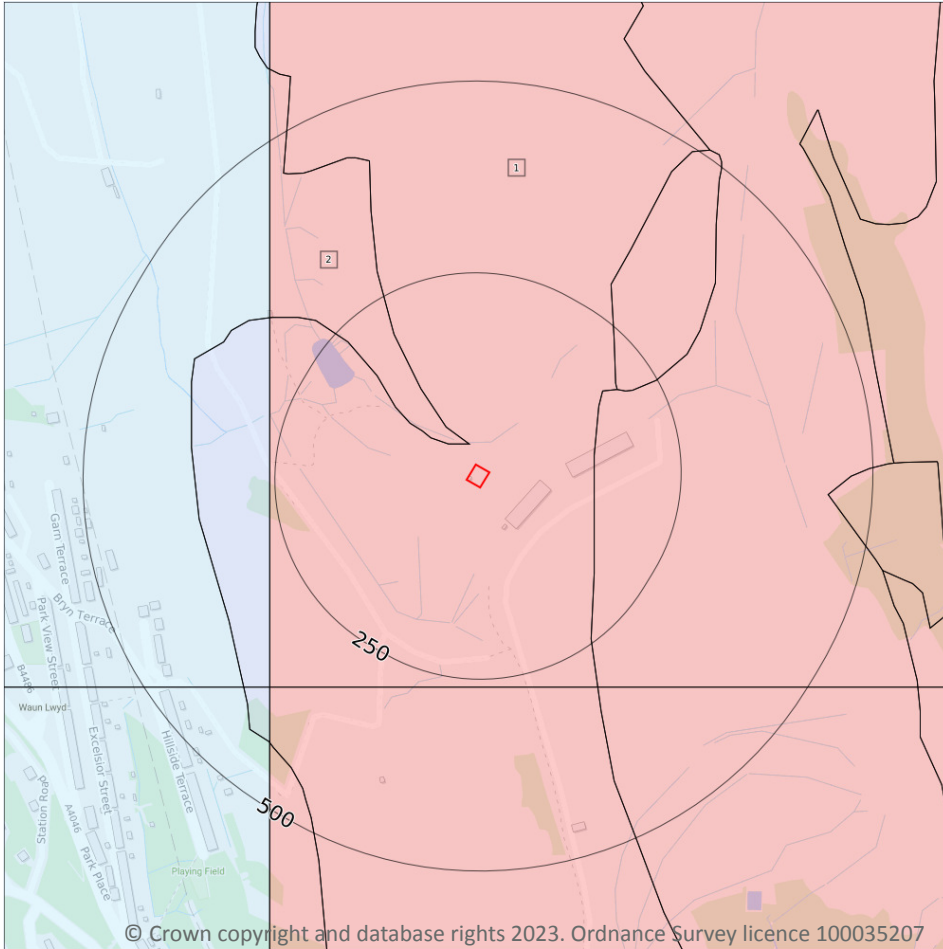
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 35**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 36**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	28m N	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

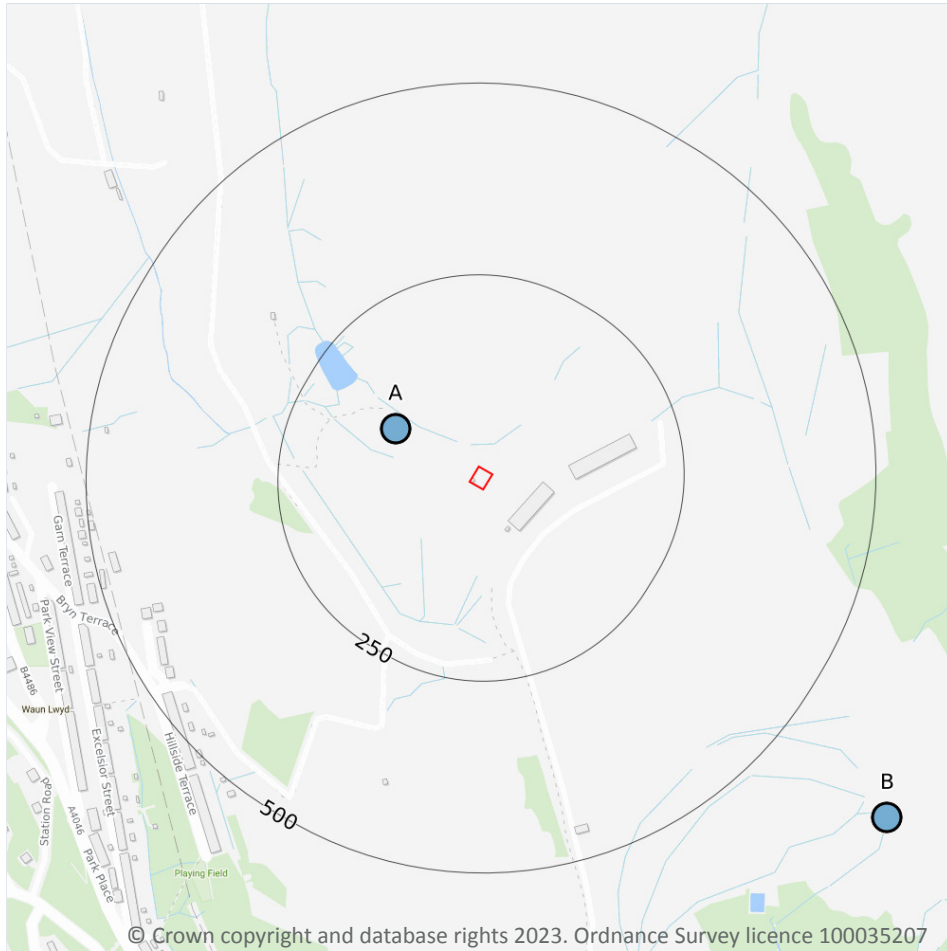
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m
10

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 38**

ID	Location	Details	
A	118m NW	Status: Historical Licence No: 20/56/64/0030 Details: Dust Suppression Direct Source: EAW Surface Water Point: SPRING AT CWM Data Type: Point Name: Silent Valley Waste Services Limited Easting: 318160 Northing: 207340	Annual Volume (m ³): 6158 Max Daily Volume (m ³): 42 Original Application No: - Original Start Date: 07/01/1999 Expiry Date: 08/08/2044 Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
A	118m NW	Status: Active Licence No: 20/56/64/0030 Details: Dust Suppression - High Direct Source: Groundwater fed spring Point: - Data Type: Point Name: - Easting: 318160 Northing: 207340	Annual Volume (m ³): 6,158 Max Daily Volume (m ³): 84 Original Application No: - Original Start Date: Apr 1 2008 12:00AM Expiry Date: Aug 8 2044 12:00AM Issue No: - Version Start Date: - Version End Date: -
B	678m SE	Status: Active Licence No: WA/056/0064/0003 Details: Hydro-electric Power Generation - Very Low Direct Source: un-named tributary of the Nant Merddog Point: - Data Type: Point Name: - Easting: 318801 Northing: 206833	Annual Volume (m ³): 545,572.80 Max Daily Volume (m ³): 1,494.72 Original Application No: - Original Start Date: Mar 21 2019 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
B	678m SE	Status: Active Licence No: WA/056/0064/0004 Details: Unknown (Impounding) - Direct Source: un-named tributary of Nant Merddog Point: - Data Type: Point Name: - Easting: 318801 Northing: 206833	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Mar 21 2019 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	810m W	Status: Historical Licence No: 20/56/64/0007 Details: Transfer between sources Direct Source: EAW Surface Water Point: SOUTHEND PUMPING STATION (POINT 5) Data Type: Point Name: Corus UK Ltd Easting: 317500 Northing: 206980	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1171m SW	Status: Historical Licence No: 20/56/64/0027 Details: Make-Up Or Top Up Water Direct Source: EAW Surface Water Point: HIREATH POOL Data Type: Point Name: Festival Park (Ebbw Vale) Management Co Ltd Easting: 317410 Northing: 206460	Annual Volume (m ³): 1,576,818 Max Daily Volume (m ³): 4320 Original Application No: - Original Start Date: 16/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1996 Version End Date: -
-	1215m NW	Status: Historical Licence No: 20/56/64/0034 Details: Dust Suppression Direct Source: EAW Surface Water Point: RIVER EBBW FAWR AT EBBW VALE STEELWORKS Data Type: Line Name: Edmund Nuttall Limited Easting: 317350 Northing: 208832	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 04/12/2007 Expiry Date: 31/03/2010 Issue No: 1 Version Start Date: 04/12/2007 Version End Date: -
-	1406m N	Status: Historical Licence No: 20/56/64/0006 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: LONG FEEDER (POINT 17) Data Type: Point Name: Corus UK Ltd Easting: 317840 Northing: 208630	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1808m NW	Status: Historical Licence No: 20/56/64/0031 Details: Evaporative Cooling Direct Source: EAW Surface Water Point: UN-NAMED SPRINGS AT CWM DRAW INDUSTRIAL ESTATE Data Type: Point Name: Bottcher UK Ltd Easting: 317550 Northing: 208950	Annual Volume (m ³): 10230 Max Daily Volume (m ³): 37.3 Original Application No: - Original Start Date: 03/08/2001 Expiry Date: - Issue No: 1 Version Start Date: 03/08/2001 Version End Date: -

ID	Location	Details	
-	1916m E	Status: Active Licence No: WA/056/0063/006 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 320119 Northing: 206718	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Jul 17 2015 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

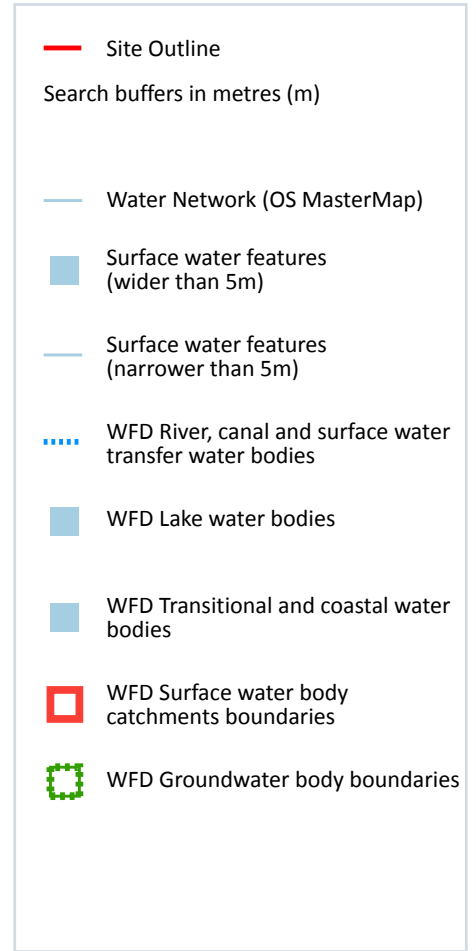
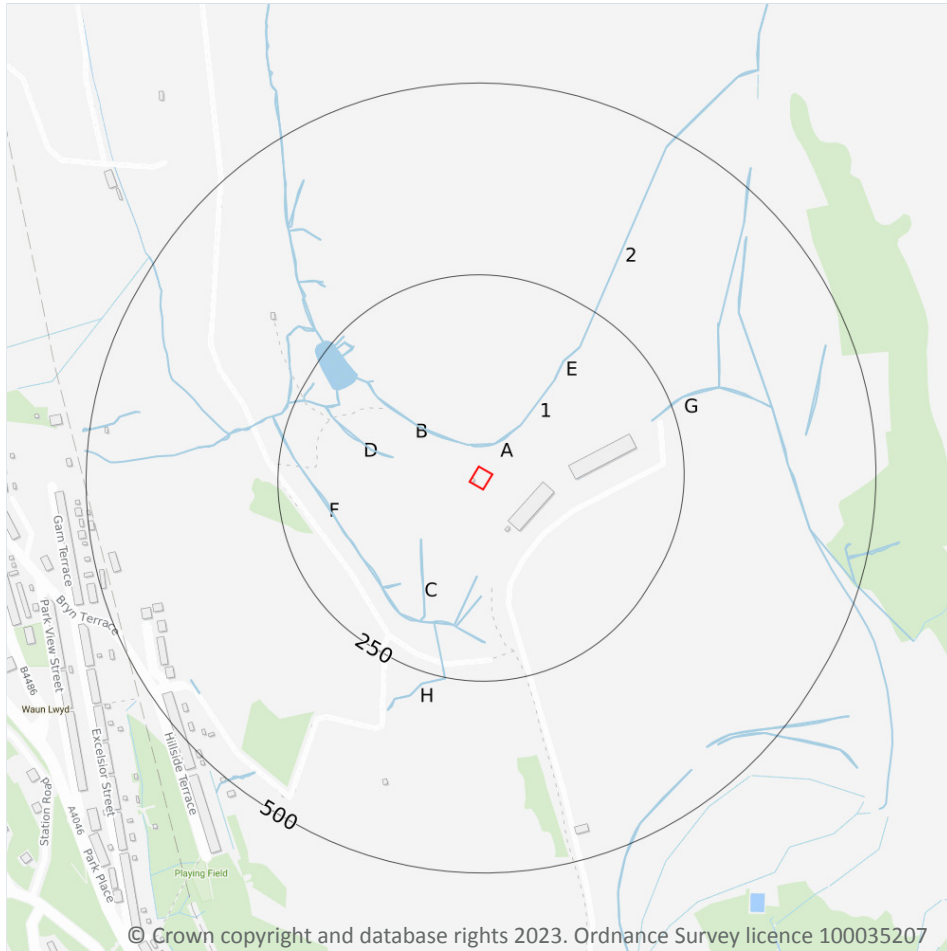
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
----------------------------	----------

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

46

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 42**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	26m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	30m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	30m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	74m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
C	97m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	104m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	113m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	138m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	147m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	160m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	170m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	176m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	178m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	179m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
C	179m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	180m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	180m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	181m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	182m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	182m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	184m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	184m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	184m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	194m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	196m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	197m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	198m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
2	201m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	209m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	212m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	212m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	218m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	224m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	228m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	235m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	237m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	237m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	238m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	238m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	239m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	240m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	240m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	240m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	244m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	246m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

26

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 42**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 42**



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Ebbw R - source to conf Ebbw Fach R	GB109056032900	Ebbw Sirhowy	South East Valleys

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1
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Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 42**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	749m W	River	Ebbw R - source to conf Ebbw Fach R	GB109056032900	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 42**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	SE Valleys Carboniferous Coal Measures	GB40902G201900	Poor	Poor	Good	2017

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

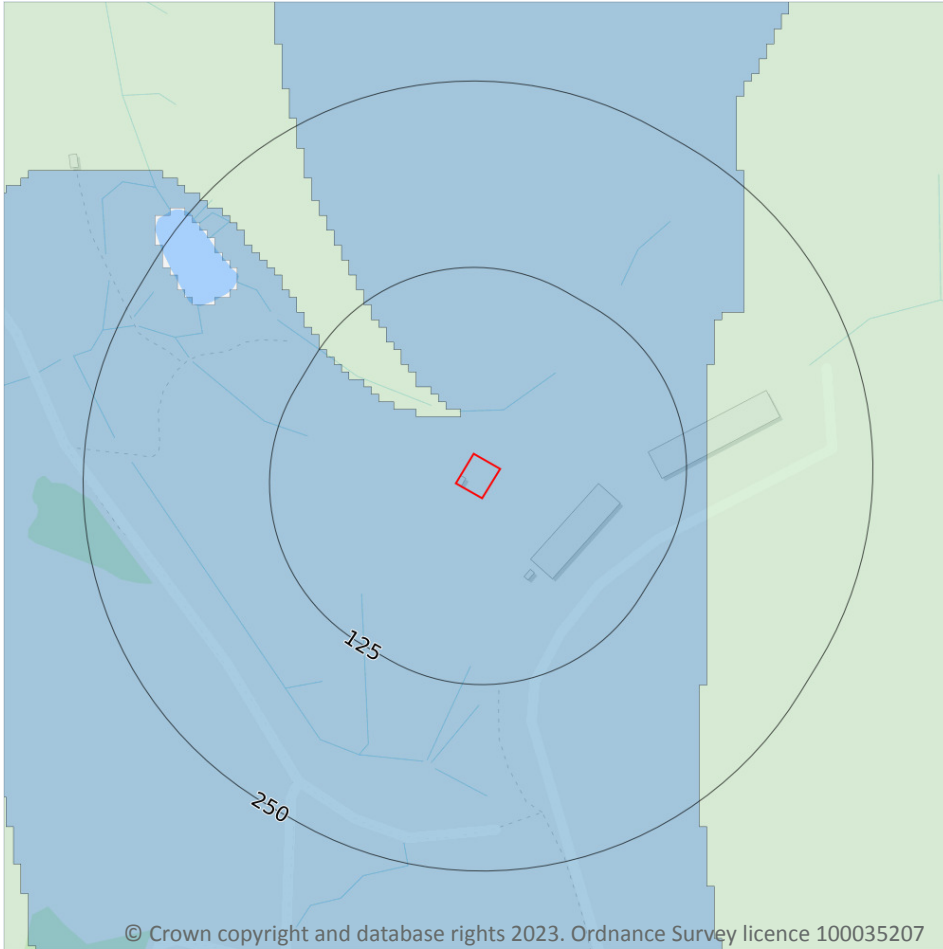
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

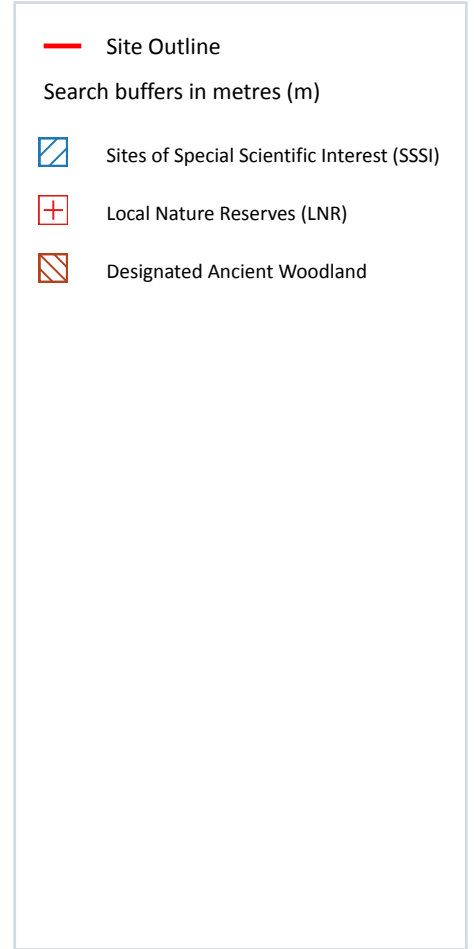
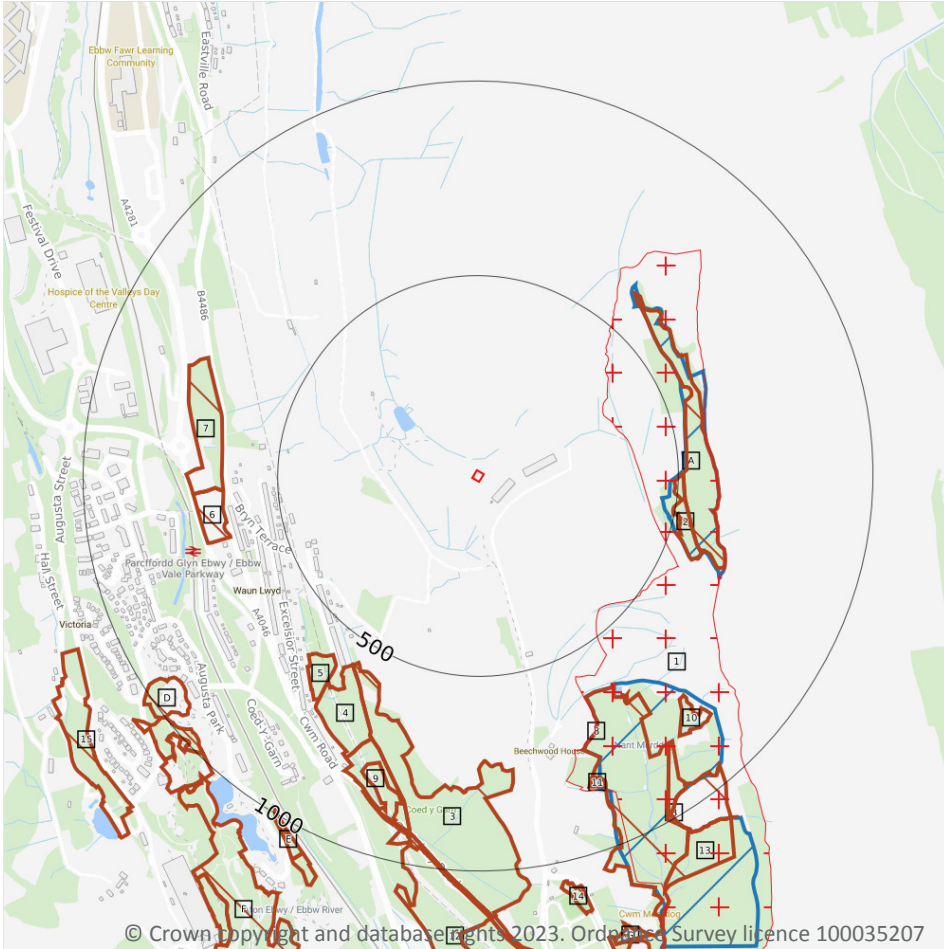
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 52**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Data source
A	462m E	Cwm Merddog Woodlands	Natural Resources Wales

ID	Location	Name	Data source
B	616m SE	Cwm Merddog Woodlands	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m **0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m **0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m **0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m **0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m
1

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Data source
1	343m NE	SILENT VALLEY	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m
53

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Woodland Type
2	490m E	Unknown	Ancient Semi Natural Woodland
A	512m E	Unknown	Ancient Semi Natural Woodland
3	557m SW	Unknown	Ancient Semi Natural Woodland
4	570m SW	Unknown	Plantation on Ancient Woodland Site
5	578m SW	Unknown	Restored Ancient Woodland Site
B	616m SE	Unknown	Ancient Semi Natural Woodland
6	639m W	Unknown	Restored Ancient Woodland Site
7	641m W	Unknown	Ancient Semi Natural Woodland
8	707m SE	Unknown	Ancient Woodland Site of Unknown Category
9	715m S	Unknown	Plantation on Ancient Woodland Site
10	759m SE	Unknown	Ancient Semi Natural Woodland
11	812m S	Unknown	Ancient Woodland Site of Unknown Category



ID	Location	Name	Woodland Type
B	830m SE	Unknown	Ancient Semi Natural Woodland
C	858m S	Unknown	Ancient Woodland Site of Unknown Category
D	914m SW	Unknown	Ancient Woodland Site of Unknown Category
12	915m S	Unknown	Ancient Semi Natural Woodland
B	939m SE	Unknown	Ancient Woodland Site of Unknown Category
B	960m SE	Unknown	Ancient Semi Natural Woodland
D	969m SW	Unknown	Ancient Semi Natural Woodland
D	986m SW	Unknown	Ancient Woodland Site of Unknown Category
D	990m SW	Unknown	Ancient Woodland Site of Unknown Category
E	993m SW	Unknown	Ancient Semi Natural Woodland
D	995m SW	Unknown	Ancient Woodland Site of Unknown Category
F	1035m SW	Unknown	Plantation on Ancient Woodland Site
13	1041m SE	Unknown	Ancient Semi Natural Woodland
D	1044m SW	Unknown	Ancient Woodland Site of Unknown Category
14	1050m S	Unknown	Ancient Semi Natural Woodland
E	1056m SW	Unknown	Plantation on Ancient Woodland Site
B	1078m SE	Unknown	Ancient Semi Natural Woodland
15	1104m SW	Unknown	Restored Ancient Woodland Site
C	1123m S	Unknown	Restored Ancient Woodland Site
G	1193m S	Unknown	Ancient Semi Natural Woodland
G	1216m S	Unknown	Ancient Semi Natural Woodland
F	1226m SW	Unknown	Ancient Semi Natural Woodland
-	1285m S	Unknown	Ancient Semi Natural Woodland
-	1288m S	Unknown	Restored Ancient Woodland Site
-	1388m S	Unknown	Plantation on Ancient Woodland Site
-	1539m S	Unknown	Restored Ancient Woodland Site
-	1604m SE	Unknown	Restored Ancient Woodland Site
-	1626m S	Unknown	Restored Ancient Woodland Site



ID	Location	Name	Woodland Type
-	1630m SW	Unknown	Ancient Semi Natural Woodland
-	1645m S	Unknown	Ancient Semi Natural Woodland
-	1657m NE	Unknown	Ancient Semi Natural Woodland
-	1678m NE	Unknown	Plantation on Ancient Woodland Site
-	1699m S	Unknown	Restored Ancient Woodland Site
-	1714m NE	Unknown	Plantation on Ancient Woodland Site
-	1745m NE	Unknown	Ancient Semi Natural Woodland
-	1761m NE	Unknown	Plantation on Ancient Woodland Site
-	1764m E	Unknown	Plantation on Ancient Woodland Site
-	1764m S	Unknown	Ancient Semi Natural Woodland
-	1811m S	Unknown	Ancient Woodland Site of Unknown Category
-	1965m S	Unknown	Ancient Semi Natural Woodland
-	1974m S	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

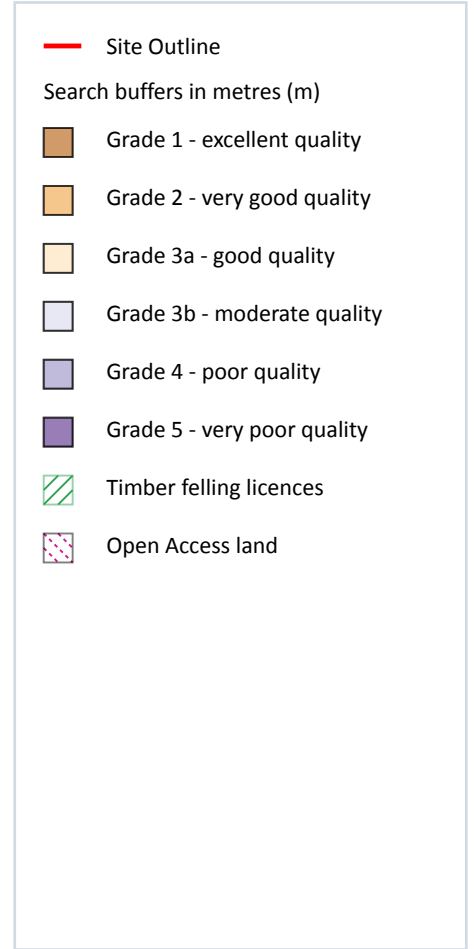
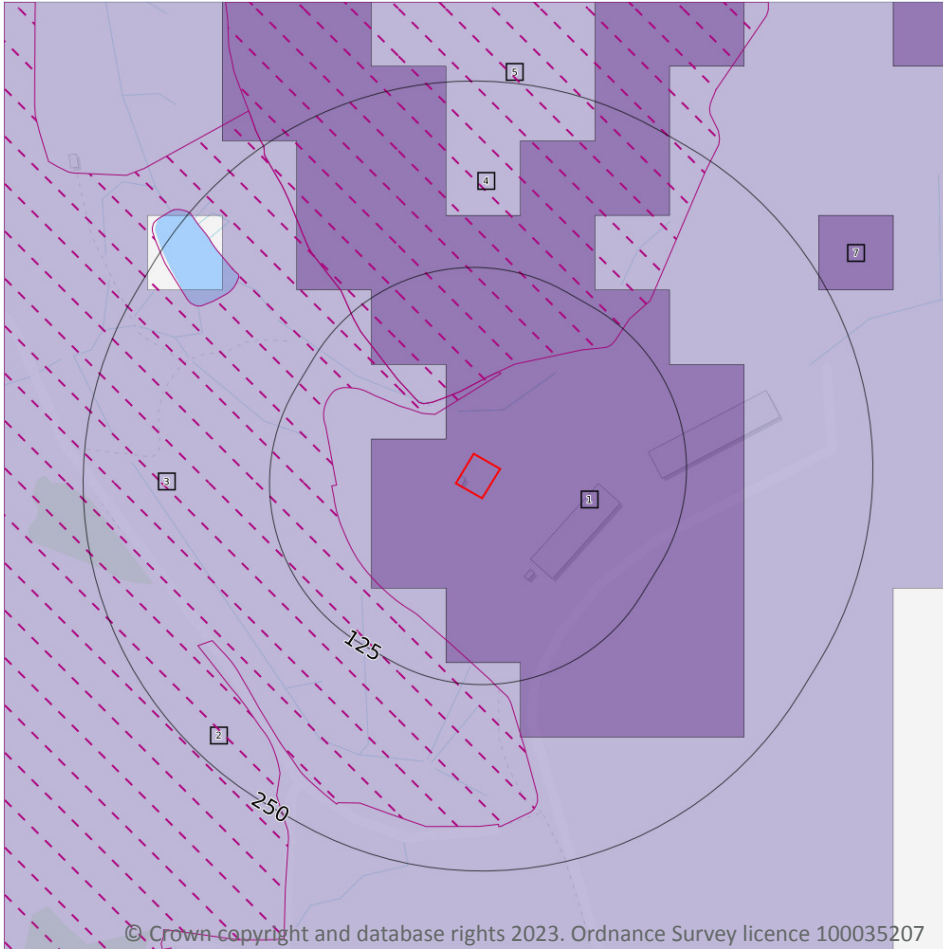
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

4

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 63**

ID	Location	Classification	Description
1	On site	Grade 5	Very poor quality agricultural land
2	21m NW	Grade 4	Poor quality agricultural land
5	160m N	Grade 4	Poor quality agricultural land

ID	Location	Classification	Description
7	245m NE	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

2

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on **page 63**

ID	Location	Name	Classification	Other relevant legislation
3	36m NW	-	Open Access Open Country	-
4	42m N	-	Open Access Other Statutory Access Land	-

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

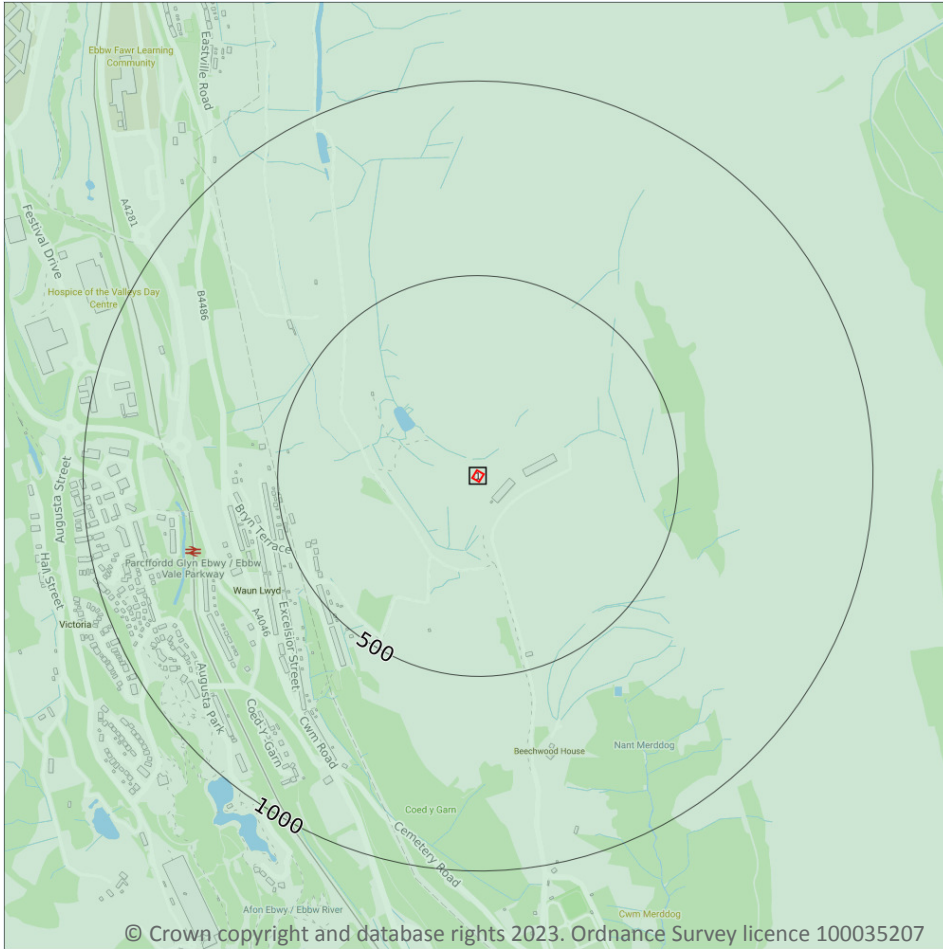
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

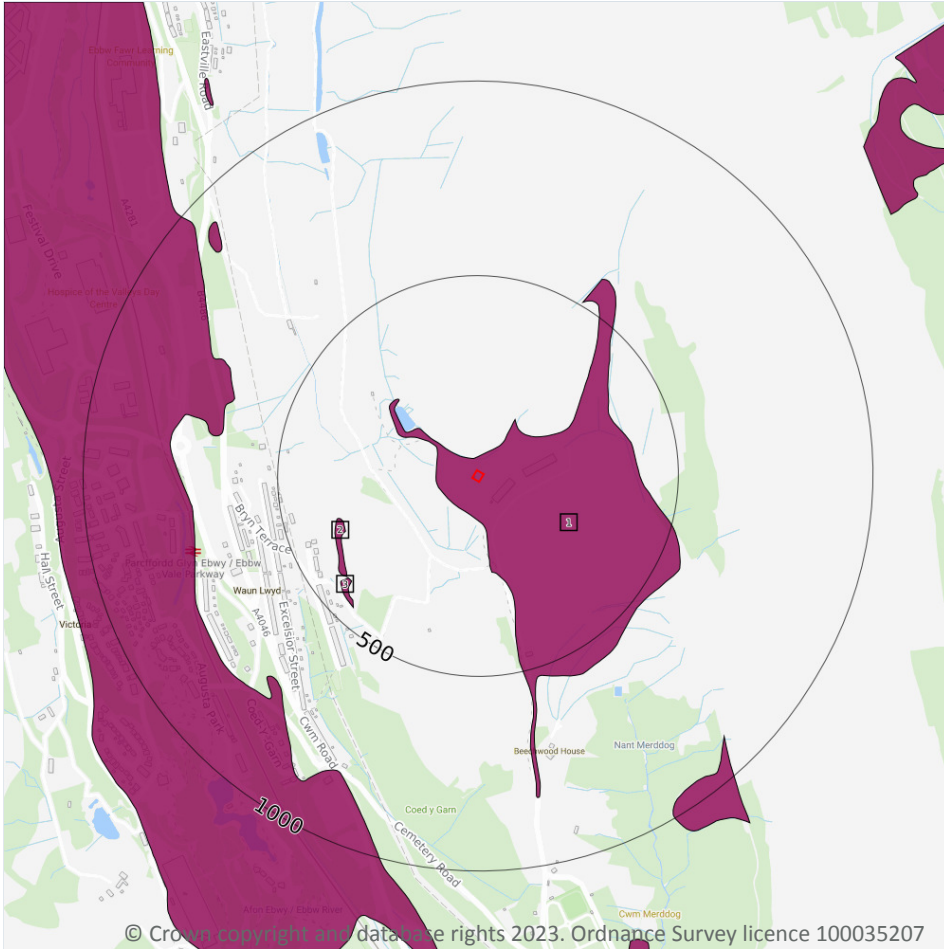
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 67**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SO10NE

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m

3

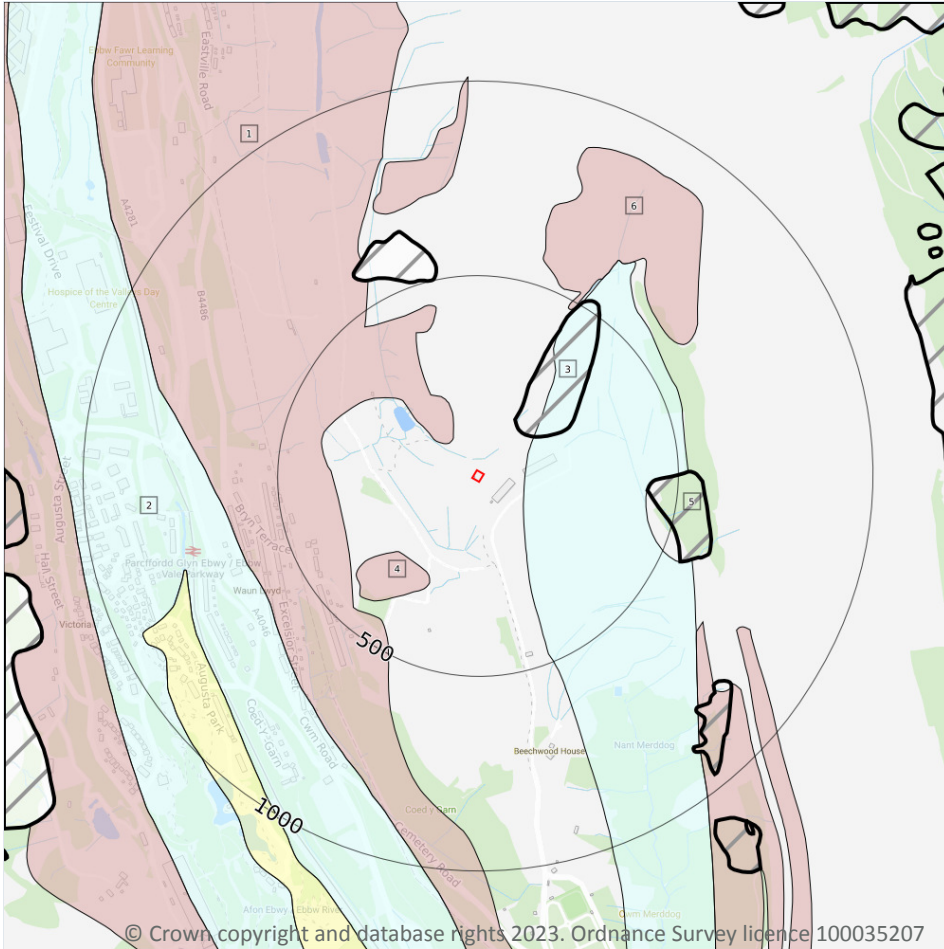
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 68**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	350m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	408m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

4

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 69**

ID	Location	LEX Code	Description	Rock description
1	99m NW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	106m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
4	263m SW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
6	477m NE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	2
----------------------------	----------

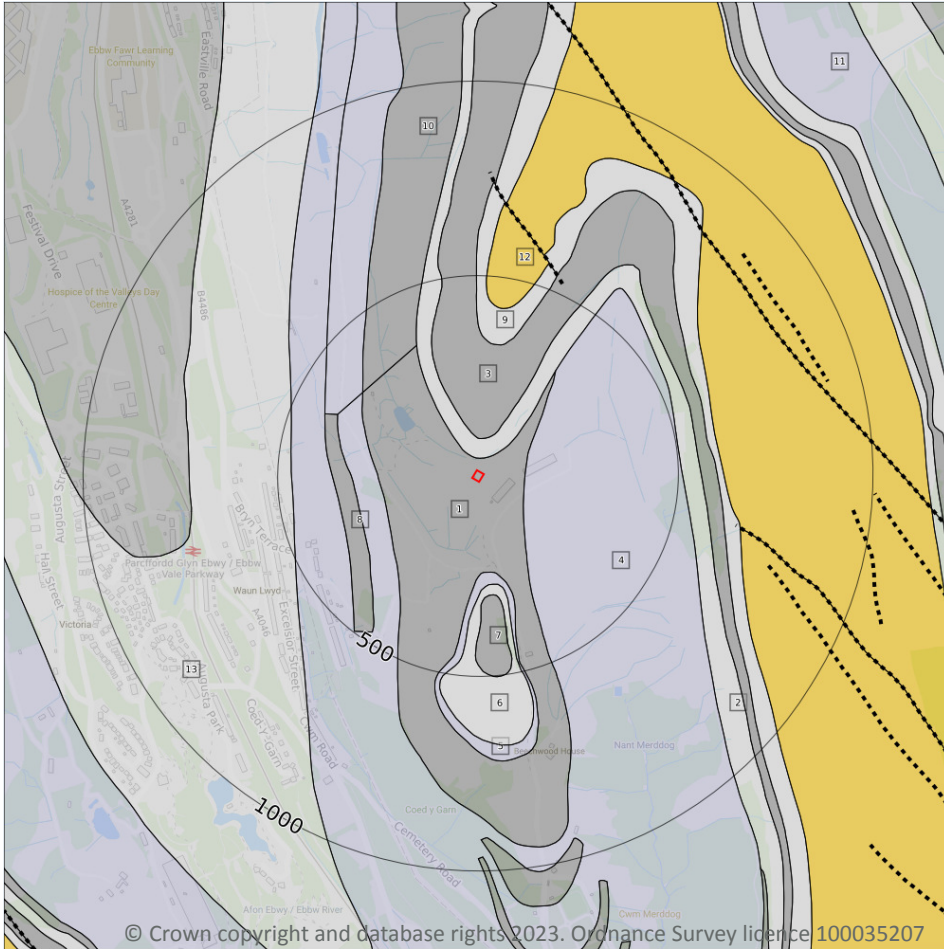
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 69**

ID	Location	LEX Code	Description	Rock description
3	145m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
5	423m E	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

13

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 71**

ID	Location	LEX Code	Description	Rock age
1	On site	RA-SCON	Rhondda Member - Interbedded Sandstone And Conglomerate	Westphalian D Sub-age - Bolsovian Sub-age
2	31m N	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
3	82m N	BD-SCON	Brithdir Member - Interbedded Sandstone And Conglomerate	Westphalian D Sub-age

ID	Location	LEX Code	Description	Rock age
4	106m E	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
5	233m S	RA-MDSS	Rhondda Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
6	266m S	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
7	293m S	BD-SCON	Brithdir Member - Interbedded Sandstone And Conglomerate	Westphalian D Sub-age
8	300m W	RA-SCON	Rhondda Member - Interbedded Sandstone And Conglomerate	Westphalian D Sub-age - Bolsovian Sub-age
9	327m N	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
10	344m NW	DER-SCON	Deri Formation - Interbedded Sandstone And Conglomerate	Westphalian D Sub-age - Bolsovian Sub-age
11	355m NW	DER-MDSS	Deri Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
12	421m N	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
13	463m W	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

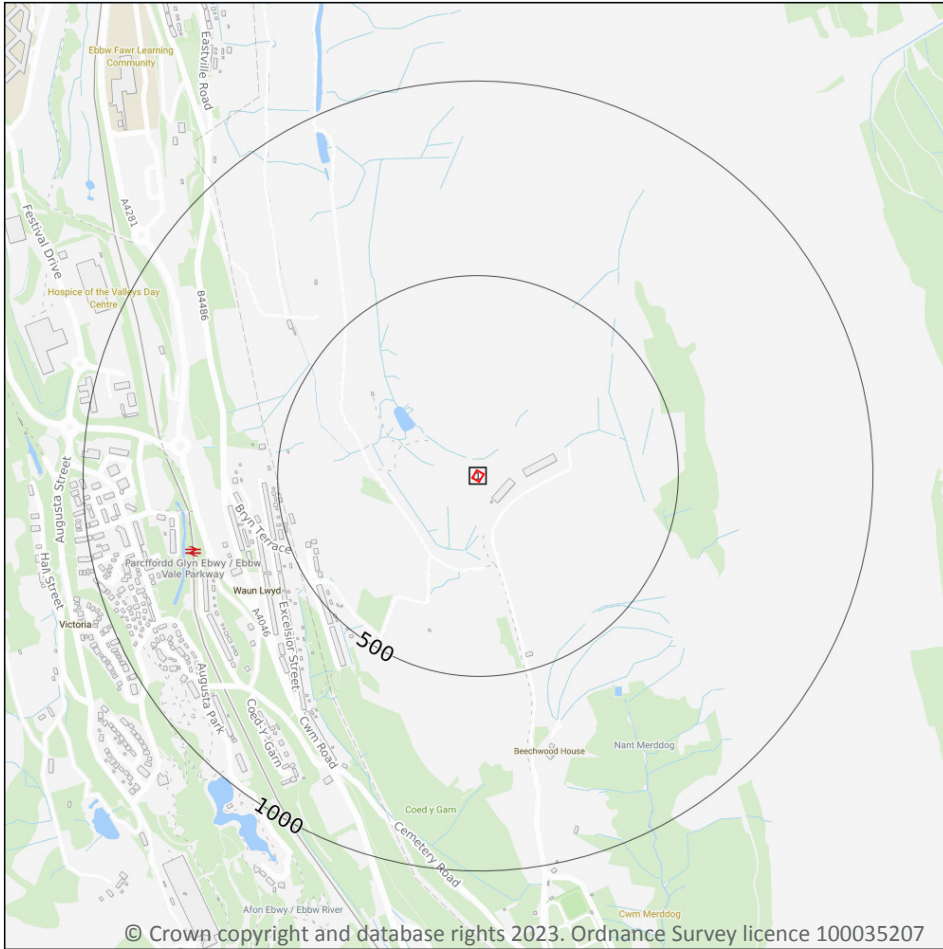
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

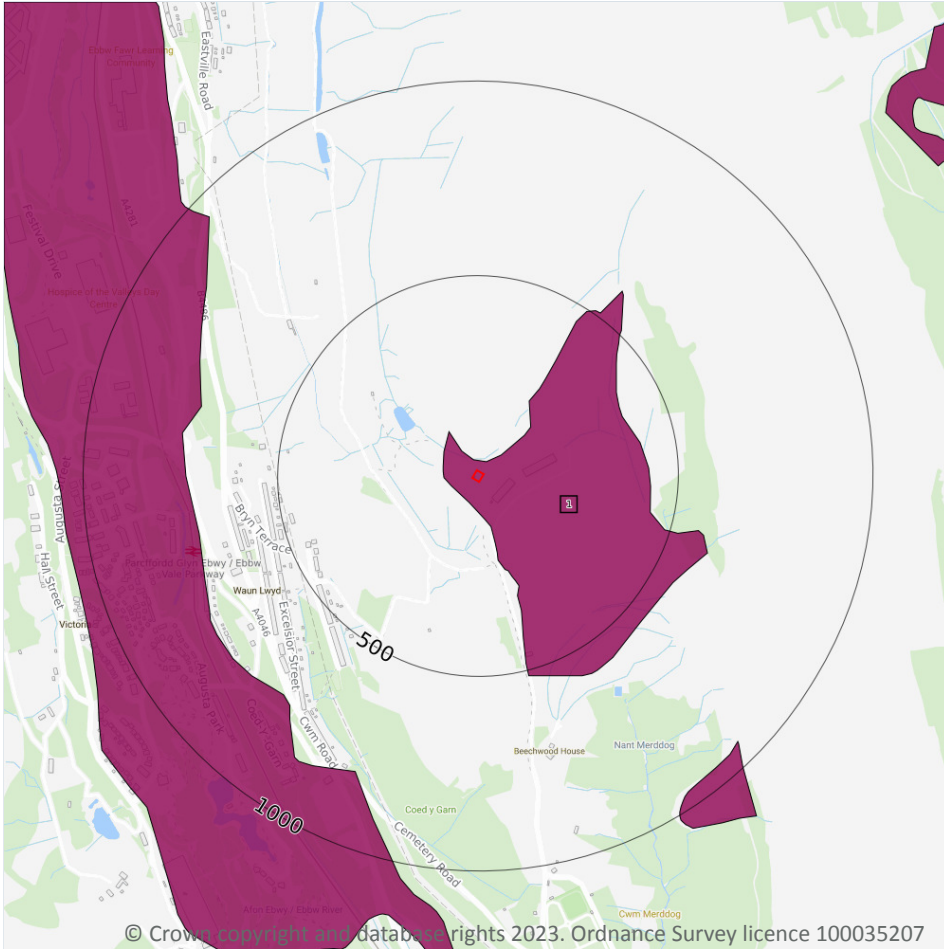
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 73**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW232_abergavenny_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



— Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 74**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

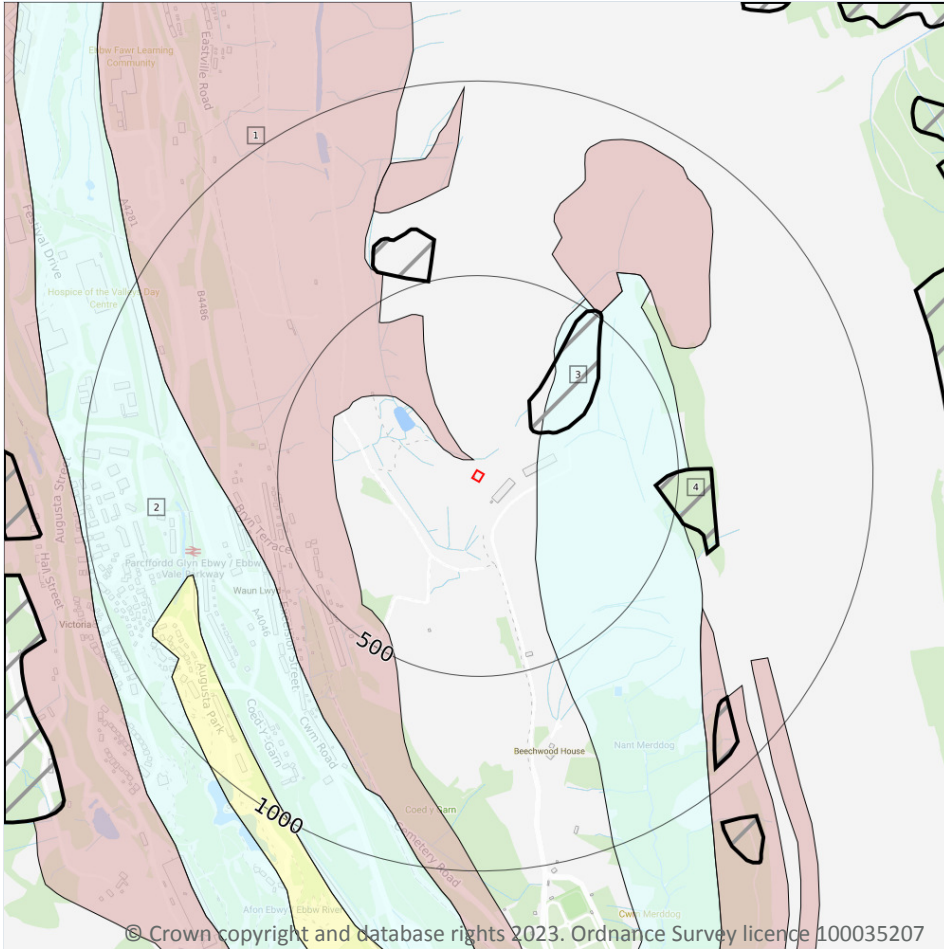
Records within 50m**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 76**

ID	Location	LEX Code	Description	Rock description
1	28m N	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	137m E	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
28m N	Mixed	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

2

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 76**

ID	Location	LEX Code	Description	Rock description
3	169m NE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
4	443m E	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

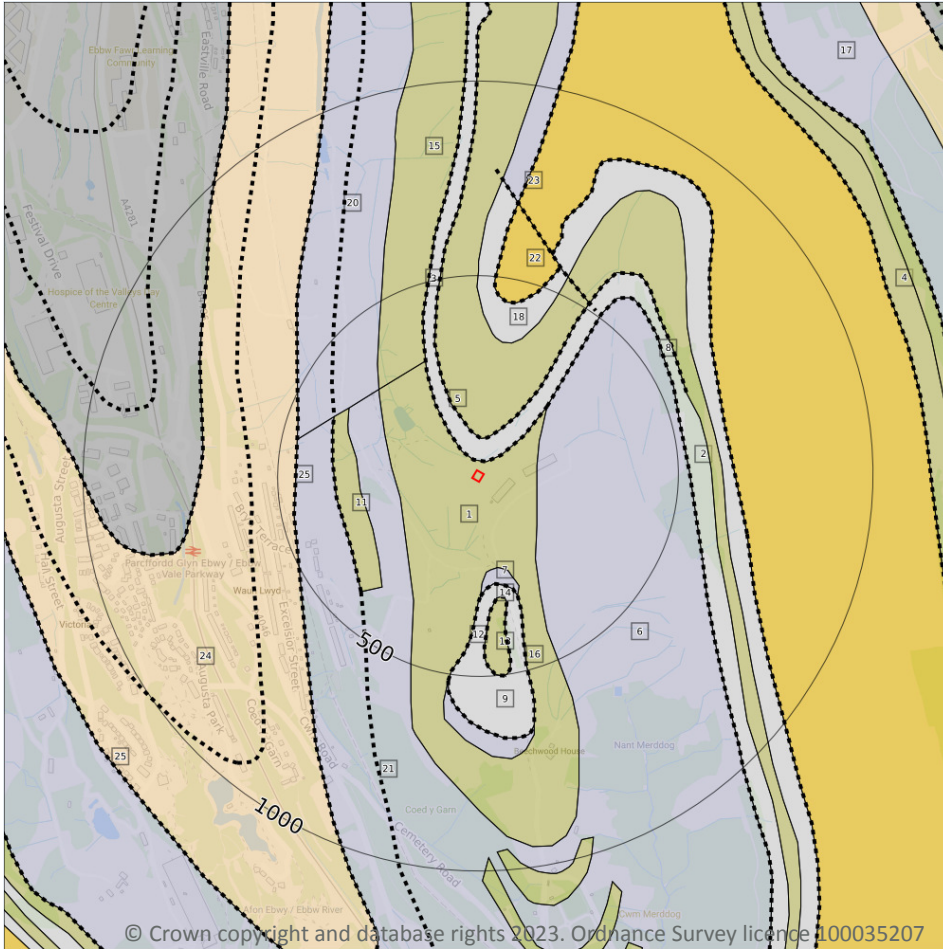
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

13

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 78**

ID	Location	LEX Code	Description	Rock age
1	On site	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
2	25m N	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
4	83m N	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
6	137m E	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	225m S	RA-MDSS	RHONDDA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	265m S	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	284m W	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN
13	300m S	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN
15	308m NW	DER-SDST	DERI FORMATION - SANDSTONE	WESTPHALIAN
17	326m NW	DER-MDSS	DERI FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	335m N	BD-MDSS	BRITHDIR MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	439m N	H-SDST	HUGHES MEMBER - SANDSTONE	WESTPHALIAN
24	453m W	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
25m N	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

12

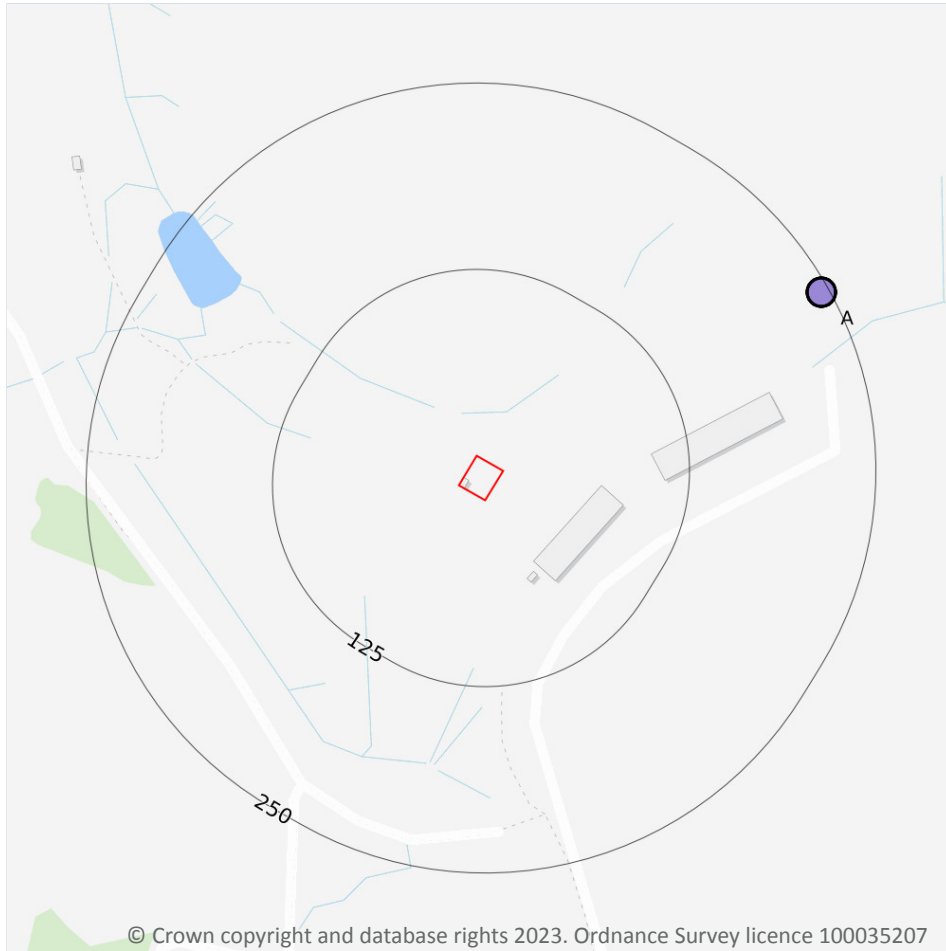
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 78**

ID	Location	Category	Description
3	25m N	ROCK	Coal seam, inferred
5	83m N	ROCK	Coal seam, inferred
8	238m NE	ROCK	Coal seam, inferred
10	265m S	ROCK	Coal seam, inferred
12	294m S	ROCK	Coal seam, inferred
14	300m S	ROCK	Coal seam, inferred
16	309m S	ROCK	Coal seam, inferred
19	349m W	ROCK	Coal seam, inferred
20	388m W	ROCK	Coal seam, inferred
21	409m SW	ROCK	Coal seam, inferred
23	439m N	ROCK	Coal seam, inferred
25	453m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



- Site Outline
- Search buffers in metres (m)
- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

2

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

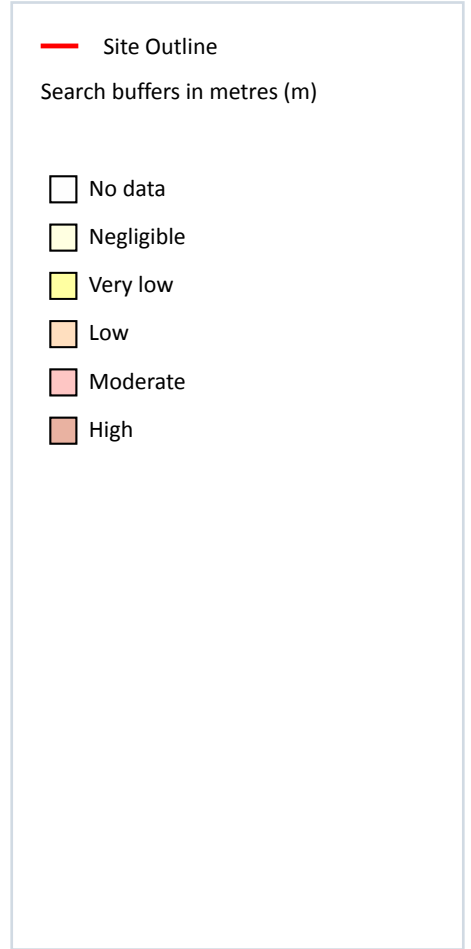
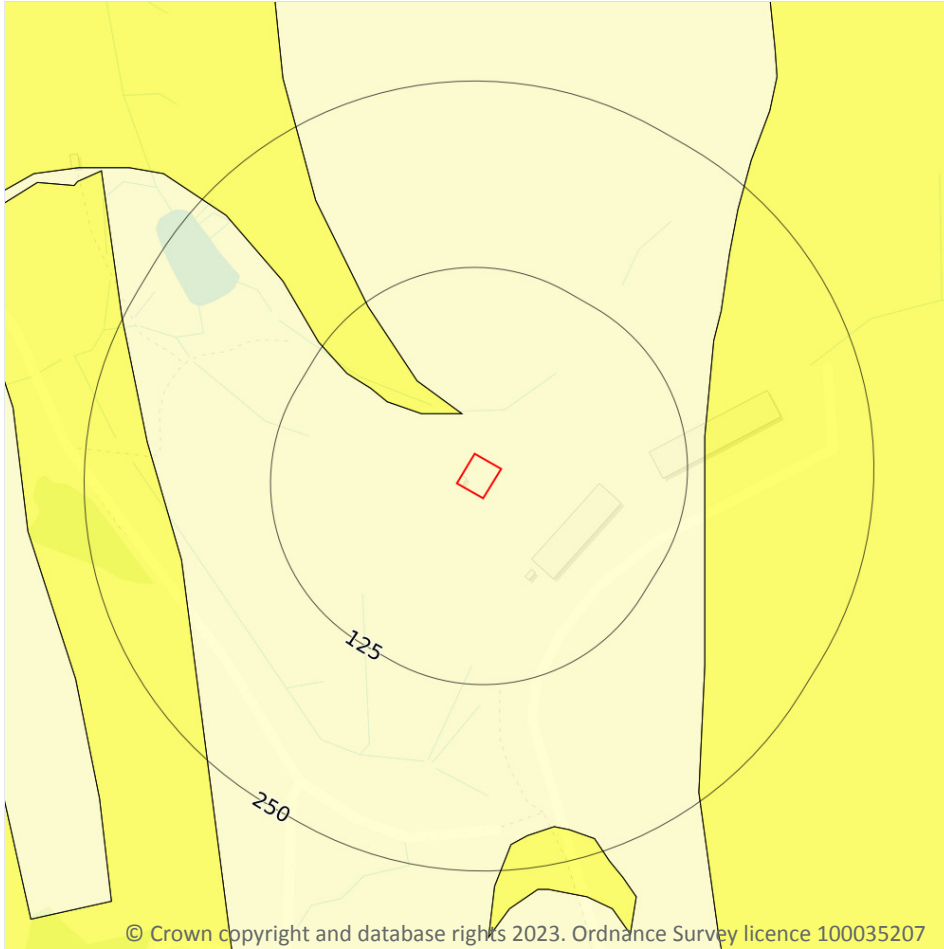
Features are displayed on the Boreholes map on **page 81**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	245m NE	318500 207400	SILENT VALLEY LANDFILL SITE, MEDDOGG VALLEY, 6	-1.0	N	605667
A	245m NE	318500 207400	SILENT VALLEY LANDFILL SITE, MEDDOGG VALLEY 3	7.0	N	605666

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

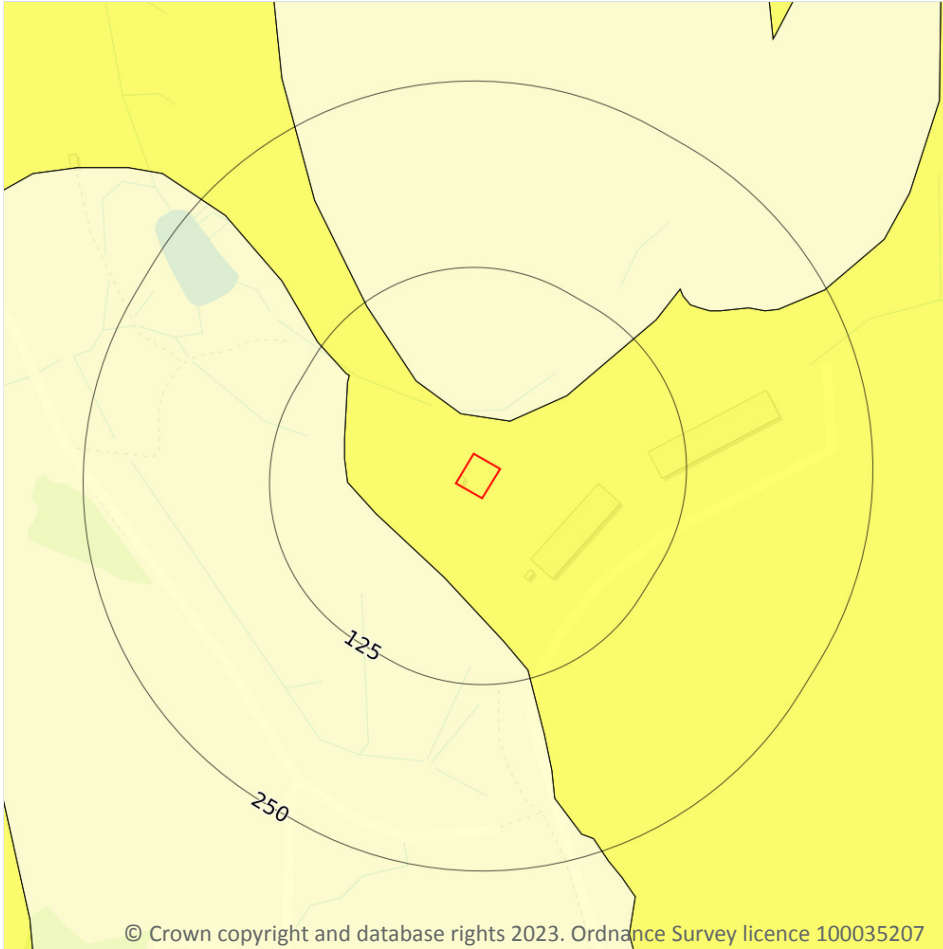
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 83**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
28m N	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 84**

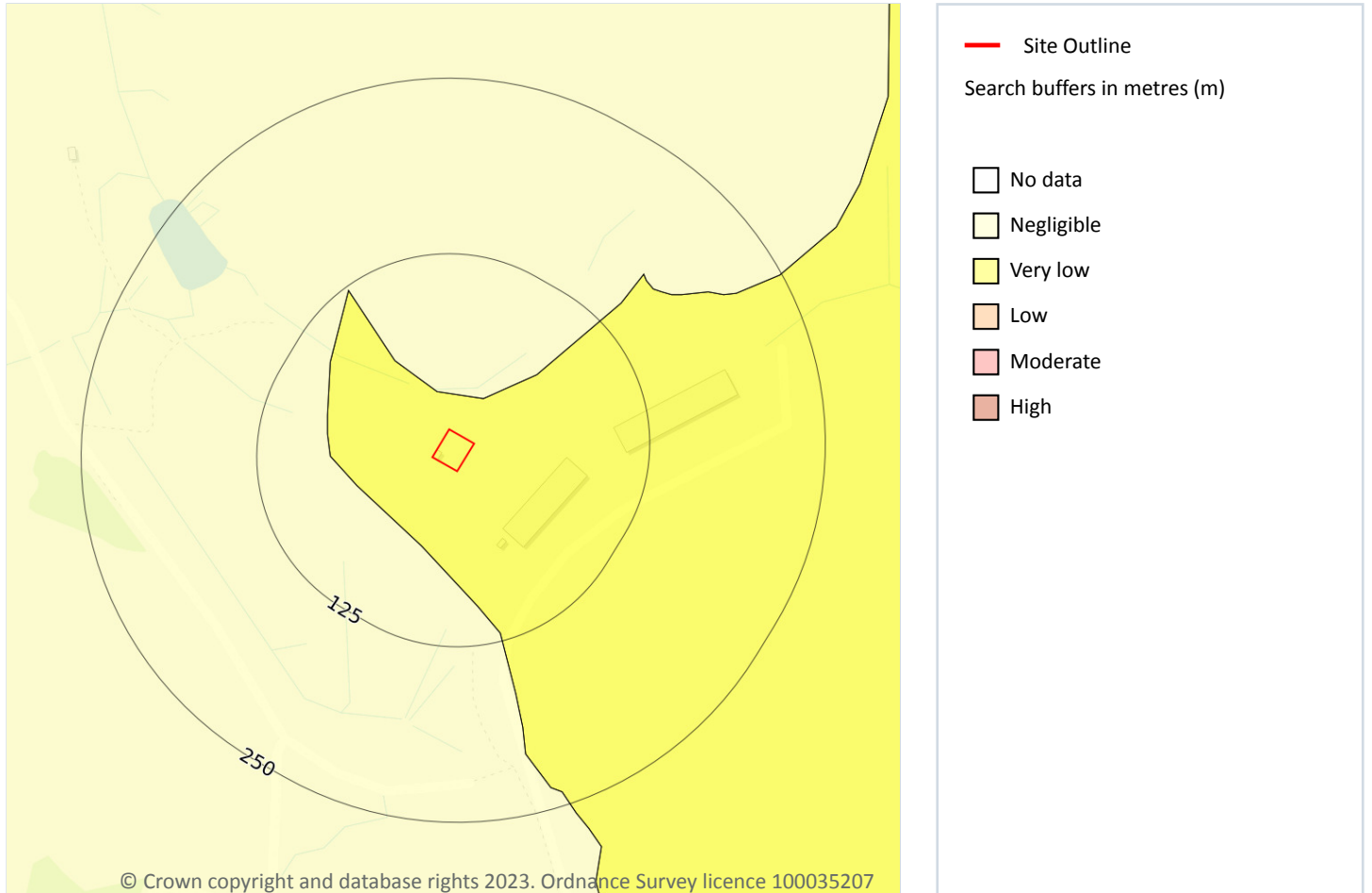
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
25m N	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

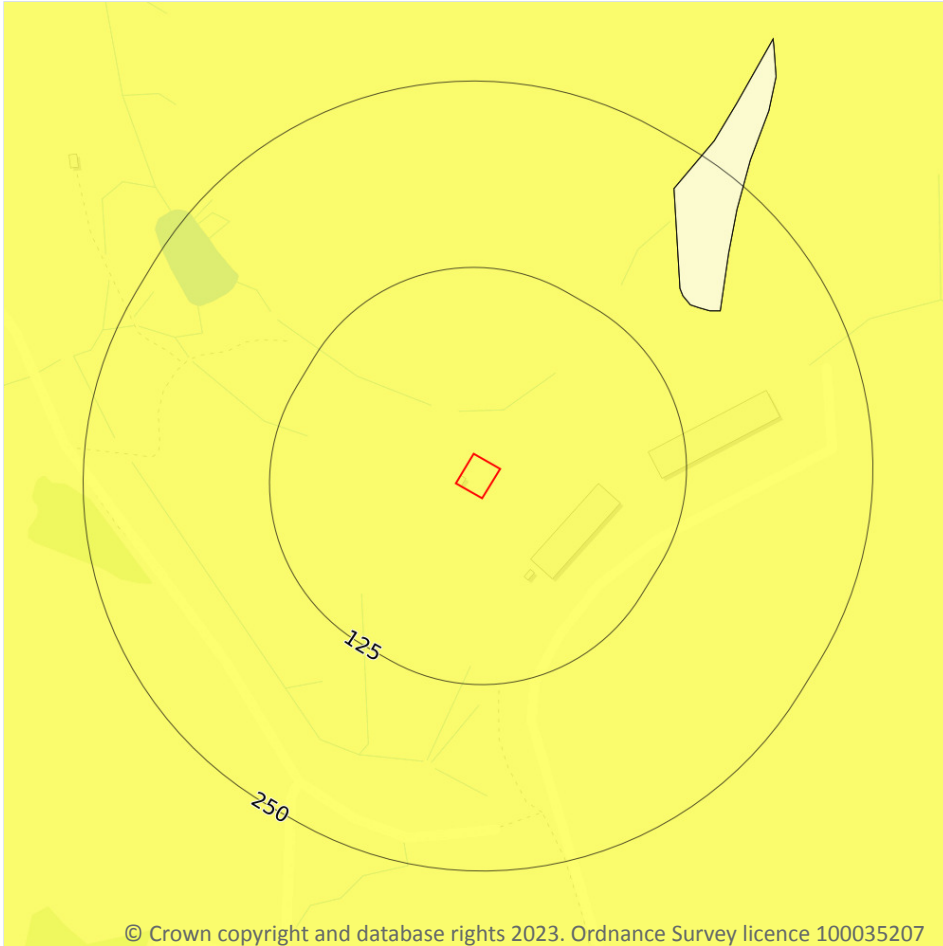
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 86**

Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
25m N	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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17.4 Collapsible deposits

Records within 50m

1

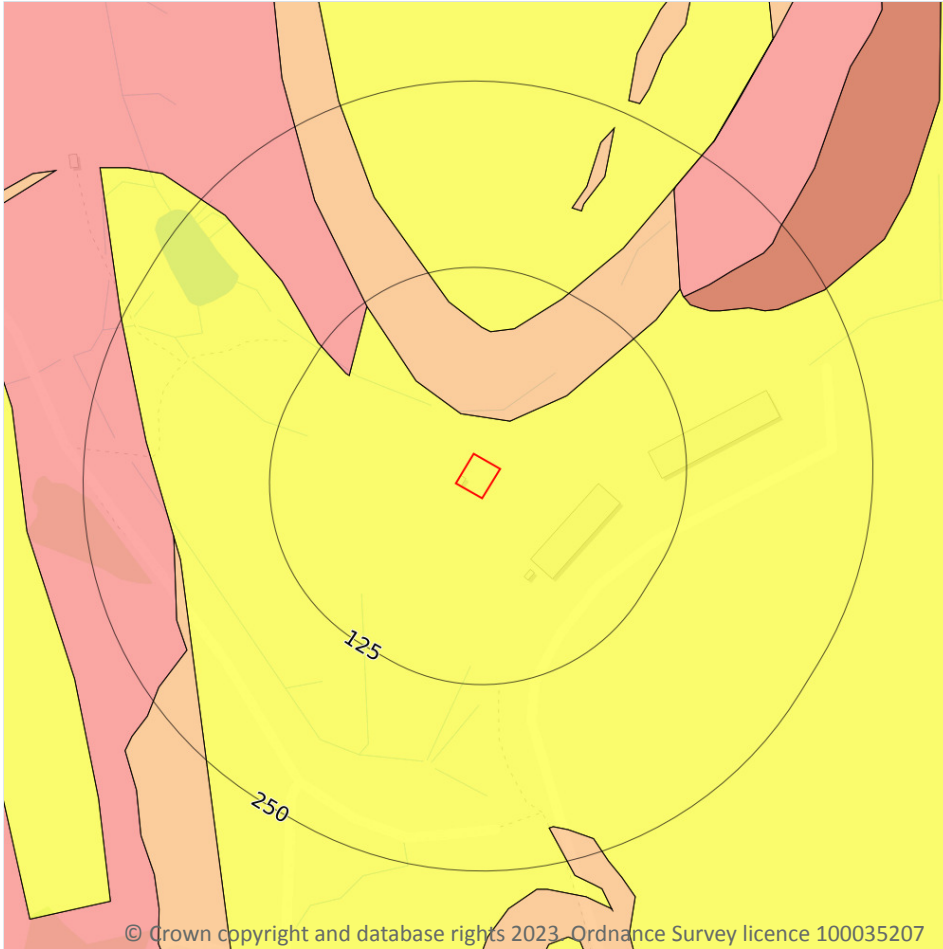
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 88**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



— Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m

2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 89**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
25m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

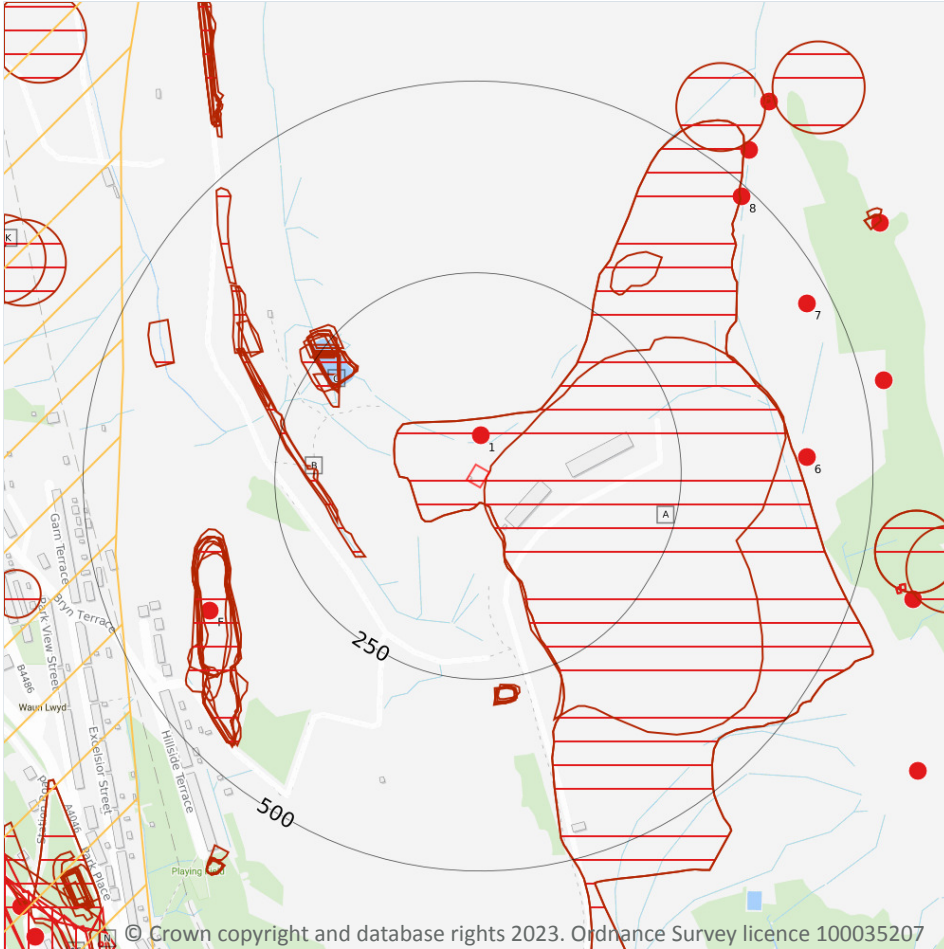
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 91**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

5

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on [page 92](#)

ID	Location	Details	Description
1	38m N	Name: Carntillery Mine Address: EBBW VALE, Gwent Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	375m SW	Name: Coed y Garn Address: Rhymney, MERTHYR TYDFIL, Gwent Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
6	414m E	Name: Nant Merddog Mine Address: Abertysswg, RHYMMNEY, Gwent Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
7	468m NE	Name: Silent Valley OCCS Address: Waunlwyd, EBBW VALE, Gwent Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
8	487m NE	Name: Blaen-y-cwm Coal Mine Address: Waun Llwyd, EBBW VALE, Gwent Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	21
----------------------------	-----------

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Disused Tip	1992	1:10000
A	On site	Unspecified Disused Tip	1979	1:10000
A	On site	Refuse Heap	1965	1:10560
B	166m SW	Reservoir	1879	1:10560
B	173m W	Reservoir	1899	1:10560
C	192m NW	Reservoir	1895	1:10560
C	197m NW	Reservoir	1922	1:10560
C	199m NW	Reservoir	1879	1:10560
C	199m NW	Pond	1992	1:10000
C	199m NW	Pond	1979	1:10000
C	199m NW	Pond	1965	1:10560
C	202m NW	Pond	1916	1:10560
C	204m NW	Reservoir	1938	1:10560
C	204m NW	Reservoir	1948	1:10560
C	207m NW	Reservoir	1948	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	207m NW	Reservoir	1915	1:10560
C	207m NW	Reservoir	1899	1:10560
C	230m NW	Reservoir	1879	1:10560
C	230m NW	Pond	1879	1:10560
C	231m NW	Reservoir	1949	1:10560
C	231m NW	Reservoir	1899	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

28

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**

ID	Location	Land Use	Year of mapping	Mapping scale
H	551m E	Unspecified Disused Level	1948	1:10560
H	555m E	Unspecified Disused Level	1922	1:10560
M	600m NE	Old Coal Level	1948	1:10560
K	675m NW	Old Air Shaft	1899	1:10560
13	733m SW	Unspecified Mine	1965	1:10560
15	754m SW	Coal Pits	1879	1:10560
N	768m SW	Trial Shafts	1879	1:10560
16	770m SW	Colliery	1899	1:10560
17	771m SW	Colliery	1922	1:10560
-	791m SW	Trial Shafts	1879	1:10560
-	808m SW	Coal Pits	1879	1:10560
-	831m NW	Coal Level	1879	1:10560
-	836m NW	Old Coal Level	1949	1:10560
-	860m NW	Old Coal Level	1899	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	896m NW	Coal Level	1879	1:10560
-	903m NW	Coal Level	1879	1:10560
-	911m SE	Old Coal Level	1899	1:10560
-	912m SE	Old Coal Level	1948	1:10560
-	912m SE	Old Coal Level	1922	1:10560
-	946m NW	Old Air Shaft	1949	1:10560
-	972m NW	Coal Level	1879	1:10560
-	975m NW	Old Air Shaft	1899	1:10560
-	981m NW	Unspecified Disused Level	1992	1:10000
-	981m NW	Unspecified Disused Level	1979	1:10000
-	983m NW	Unspecified Disused Level	1965	1:10560
-	985m NW	Air Shaft	1879	1:10560
-	988m NW	Coal Level	1879	1:10560
-	992m NW	Air Shaft	1879	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

1

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 92**



ID	Location	Name	Commodity	Class	Likelihood
G	453m W	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

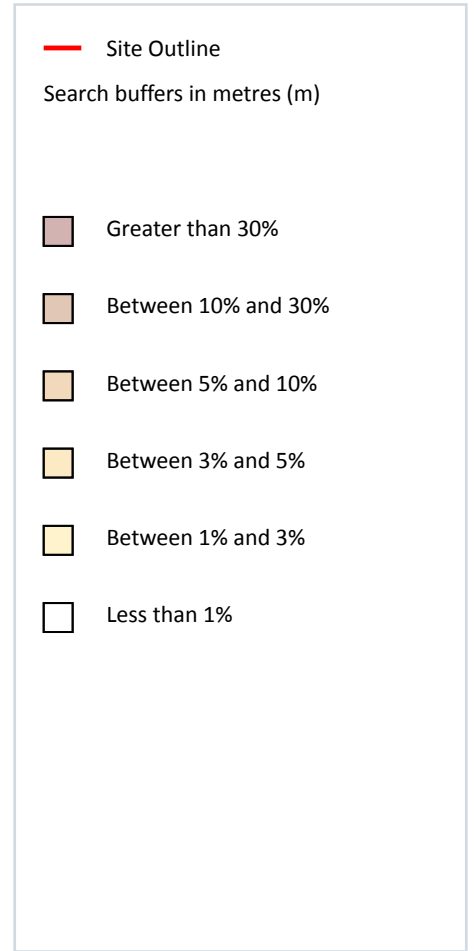
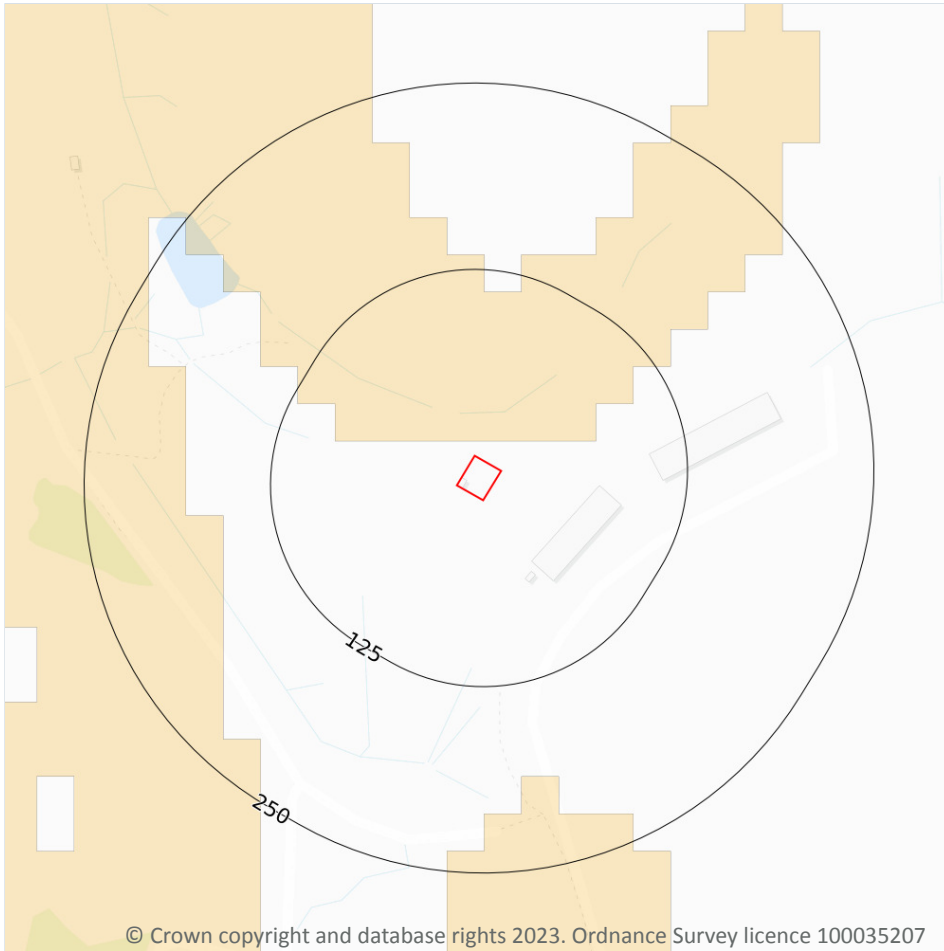
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 99**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None

This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
25m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
28m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

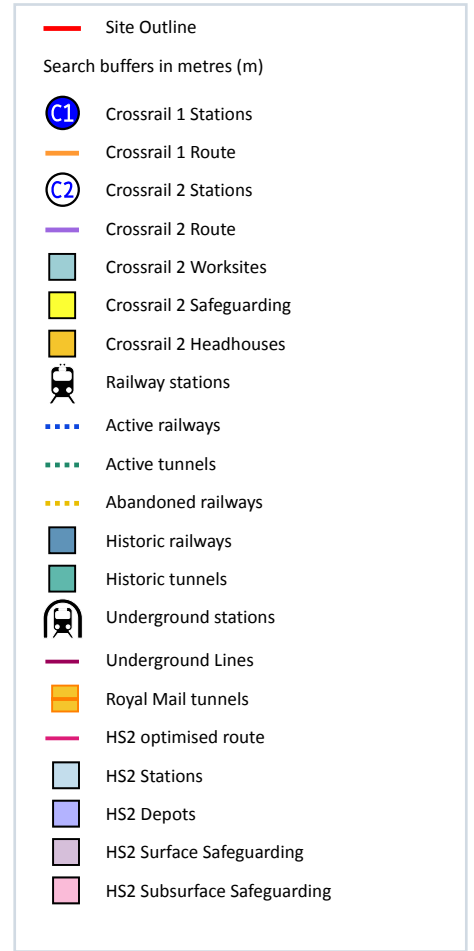
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m **0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m **2**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 102**

Location	Land Use	Year of mapping	Mapping scale
On site	Tramway Sidings	1961	2500
On site	Tramway Sidings	1948	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m **0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m **0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.


Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/>.



APPENDIX 03

Appendix 03: Silent Valley Generation Plant- Site Closure Plan


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		Revision No.	Rev 2
		Issue Date	27/02/15
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**Infinis
Site Closure Plan
Silent Valley Landfill Gas Utilisation Plant**

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Author: Richard Clarke
Revised by: K Phillips

Authorised By: Andrew Leeding

	Compliance and Services Site Closure Plan	Document No.	CAS 02.12 SCP
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1 PURPOSE

This document describes the measures which will be taken at the Gas Utilisation Plant (GUP) to ensure that the site is returned to a proper state once power generation permanently ceases.

1.1 Executive summary

Infinis operates a Site Management System (SMS) that addresses all aspects of the management of the GUP. This system outlines operating procedures in place to prevent deterioration of the site as a result of activities undertaken at the installation.

Given the adequacy of current pollution prevention measures it is considered that no emissions from the installation to soil and shallow groundwater are taking place. It is therefore deemed unnecessary to undertake regular environmental monitoring including the collection of baseline soil and groundwater reference data.


If any evidence of contamination was encountered during decommissioning, the need for remedial action (e.g. the removal of contaminated soils) will be assessed. This would be discussed in more detail during site closure.

Site infrastructure (e.g. process units, tanks, storage areas, transformer unit and hard-standing) will be monitored until cessation of activities, reducing the likelihood of structural breaches in site structures during decommissioning.

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2 BACKGROUND

The GUP is regulated by an Environmental Permit.

Environmental permits were previously known as:

- Pollution, Prevention and Control (PPC) permits or
- Waste Management Licenses (WMLs)

PPC permits and WMLs automatically became known as Environmental Permits with the introduction of the Environmental Permitting Regulations on 6 April 2008.


Gas utilisation activities were reclassified as Directly Associated Activities as a result of changes brought about by the Industrial Emissions Directive.

Novera, part of Infinis, is defined as the permit operator for the GUP. Infinis therefore has overall responsibility to ensure that the requirements of the permit are met.

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3 INTRODUCTION

The purpose of this document is to:

- record the steps that will be taken to close the site following the cessation of gas utilisation activities
- demonstrate how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory condition.

Definite closure will occur when the adjacent landfill no longer produces sufficient gas to sustain electricity generation. It is likely, however, that some provision for landfill gas control will still be required once generation ceases. Prior to any decommissioning work, this requirement will be assessed in conjunction with the landfill operator, to ensure that adequate control of any residual landfill gas is maintained.


This report shall be subject to periodic review in accordance with the permit.

The initial baseline conditions and nature of the site prior to commencement of the prescribed process, the nature of the potentially polluting substances stored on site and the potential pathways are detailed in the Application Site Report (ASR) and other documents accompanying the original permit application.

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4 INSTALLATION DETAILS

The installation is located at Silent Valley Landfill Site, Cwm, Ebbw Vale, Gwent, NP23 6PZ. The centre of the site is at National grid reference (NGR) SO 184 067 and covers an area of approximately 700m².

The Permit applies to the activities listed within the GUP Permit only.

Landfill-related activities are contained within a separate landfill permit.

4.1 Raw materials

Raw materials have been selected that minimise environmental impact. Consideration is given to such factors as degradability, bioaccumulation potential and toxicity.

A Raw Materials Assessment is submitted to the Regulator as part of the annual permit report each year.

4.2 Waste streams

A Waste Minimisation, Recovery and Disposal Assessment is submitted to the Regulator annually as part of the annual permit report. Recycling and reuse is conducted wherever practicable.

If any opportunities for reduction and improvements are identified, these will be implemented through an action plan which is produced and reviewed in accordance with the below procedure:

Procedure	Title
HSQE 43	Objectives and Targets

Waste oil is stored within a bunded tank. Waste oil is drained into the tank from the engines through operation of a valve. Oil is collected by a contractor licensed for consignment of hazardous waste and is transported off-site for fuel-oil recovery and consignment notes are provided to the site. Data relating to quantities and type of waste removed is summarised within a quarterly return provided by the waste handler.

4.3 Site Design

Site design is considered in the ASR and ensures that:


- underground tanks are avoided where possible (unless protected by secondary containment or other suitable programme)
- there is provision for the draining and clean out of vessels and pipe work prior to dismantling
- insulation is provided which is readily dismantled without dust or hazard and
- materials used are recyclable (having regard to operational and other environmental protection objectives)

Table 1 - Design and build considerations

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Design and Build Consideration	Detail
Underground tanks and pipes	To avoid where possible. If required, secondary and/or leak detection will be installed and supported by the formal inspection, testing and maintenance programme employed at the installation
Materials used are recyclable	This will be incorporated into tender specifications as a general aim to be addressed where practical
Emergency preparedness	Ensure that contractors have made suitable provision for foreseeable environmental emergencies (e.g. spills if working with any liquids) during construction
Records	A Health and Safety file will be completed and maintained as a source of information for decommissioning in the future

4.4 Permitted Operations

The site is maintained and operated to prevent or minimise any pollution risk on closure and decommissioning.

Any events which are liable to result in significant pollution throughout the life of the site will be communicated to the Regulator in accordance with the requirements of the Environmental Permit.

5 SITE CLOSURE PLAN

Definite closure will occur when the adjacent landfill no longer produces sufficient gas to sustain electricity generation.

The Regulator will be informed in writing of the date of cessation of gas utilisation. This will enable the EA to inspect the site, approve the closure, and to agree the actions that will need to occur following closure.

5.1 Decommissioning at site closure


The installation is operated as a fully contained facility and consequently operations should not lead to a deterioration of the land by the introduction of any polluting substances.

On closure of the active site, decommissioning will involve bulk removal activities. This may include cleaning of tanks and associated pipe work, safe disconnection of services, general housekeeping measures and securing the site from unauthorised access.

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Infinis will, where relevant, maintain records and/or certification of any site decommissioning activities undertaken by external contractors. Disposal of any solid wastes produced during decommissioning will be dealt with according to Infinis' waste management procedure with consignment notes/waste transfer notes maintained and registered waste carriers used. Liquid wastes will either be disposed of to the leachate collection plant on the adjacent landfill site or will be removed from site for disposal by a licensed carrier. Further details regarding decommissioning processes are provided in Table 2 below.


Table 2 - Decommissioning Process

Decommissioning Considerations	Approach
Plant run-down	The landfill gas engines will be decommissioned when the adjacent landfill no longer produces sufficient landfill gas
Pipelines – oil transfer	All pipe work to be identified and drained to allow for careful dismantling and cleaning. This should be done in such a way as to control the flow of materials from pipelines and allow for their safe and appropriate disposal. Where possible pipelines will be dismantled for reuse off-site. Where reuse is not feasible the equipment may be dismantled by licensed contractors and removed from site for recycling
Pipelines – gas	Where gas pipelines are removed from site, any condensate present will be drained and disposed of appropriately. Gas pipelines will be sealed prior to removal to ensure residues are contained
Protection against unauthorised access to the site	Site to be protected by a secure fence and routes of access to be locked / secured. Access to the site and dismantled equipment will be restricted to authorised persons only
Awareness and knowledge of contractors in minimising the risk to the environment	Specific site rules included within contracts and on-site induction for environmental protection given to all contractors prior to start of work
Suitability of vehicles for the removal of materials from the site	Ensure all vehicles used for the removal of materials from the site are suitable in terms of their size, design, construction and hazard markings
Protection of the ground and water with regard to the materials handled	Where materials are being removed, transported and handled, consideration will be given to the need for protective measures such as drain covers

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Decommissioning Considerations	Approach
Liquid waste disposal	All wastes are to be clearly identified, appropriately packaged and correctly disposed of in accordance with relevant legislation (hazardous and non-hazardous wastes). Tanks will be drained and where possible, raw materials returned to the supplier or disposed of via a licensed waste contractor
Bunding	All bunds on site will be tested, then drained before being cleaned out
Solid waste disposal and emptying of storage areas	All skips will be emptied and disposal will be via licensed waste contractors
Decommissioning of transformers	Decommissioning of transformers will only be completed if the site power is not required to support safety critical operations (e.g. fire fighting). Procedure involves electrically isolating all transformers. Oil will be drained from the transformer and then the transformer will be sealed prior to removal from site for reuse or recycling
Safe disconnection of services	All major equipment will be isolated. Electrical services will be locked off and disconnected. All gas connections will be purged and locked off. All oil lines will be drained. To secure the site, power will remain connected to all safety systems
Plant and equipment washing	Where necessary, all plant and equipment will undergo cleaning to prevent the spread of contaminants. Wastewater from the cleaning will be treated dependent on content and disposed of according to legislation and installation guidelines
Emergency preparedness	Appropriate emergency response equipment and preventive practices will be in place such as fire fighting equipment and spill kits
Records	In the event that the site is to be decommissioned but not demolished, it is proposed that all documents and information relating to environmental and plant safety issues will be left in an easily accessible location on site


5.2 Demolition at site closure

Depending on the intended future use of the site and the timescales involved, demolition of site infrastructure may be required. It is considered that much of the site infrastructure could potentially be relocated to other similar facilities. Brick-built buildings may be left in-situ. This would be in agreement with the appropriate Regulator at the time.

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5.3 Site closure – operational steps

Arrangements shall be made to ensure the cessation of deliveries of oil to the site. No deliveries shall be permitted to access the site and no oils shall be offloaded.

All material storage tanks shall be emptied and contents despatched from the site to an authorised or appropriate facility for disposal or reuse.

Electrical isolation of the generation plant shall be undertaken and all associated electrical systems locked out.

In accordance with the regular site inspection and maintenance programme, all hard surfaces and bunds shall be reviewed. Any noted spillages will be cleaned up. A note shall be made of any areas of hard standing and bunds where there are fractures, failed sealed joints or significant deterioration.

All perimeter fencing shall be checked and mended as required to ensure continued site security and to prevent unauthorised access.

A final inspection of the installation shall be undertaken. The inspection will ensure that all physically operated valves, including those on all storage tanks are in the closed position. The final inspection shall ensure that no wastes or oils remain on site – any such materials shall be removed and disposed of off-site to a suitably authorised facility.

Following final inspection, the Site Condition Report (SCR) will be completed with details of the decommissioning and remediation of the site. Evidence required to support the information in the SCR will include the following documents (where relevant)


- Site Closure Plan
- List of potential sources of pollution risk
- Investigation and remediation reports (where relevant)
- Land and/or groundwater data collected at application (if collected)
- Land and/or groundwater data collected at surrender (where needed) Assessment of satisfactory state
- Remediation and verification reports (where undertaken)

Finally the Statement of site condition will be completed, with a statement about the condition of the land at the site. This will confirm that:

- the permitted activities have stopped
- decommissioning is complete and the pollution risk has been removed
- the land is in a satisfactory condition

The completed SCR will be submitted to the Regulator

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6 CONCLUSION

This SCP outlines the decommissioning procedures that Infinis will adopt prior to closure of the generation compound. These procedures are designed to ensure that there is no impact to land during the site decommissioning and closure process.

In considering and determining the site closure plan, and the steps to be taken in dealing with all raw materials, products and wastes created in the process, regard has been given to the fact that operations at the installation are BAT compliant. Following cessation of electricity generation, decommissioning shall be undertaken as described in this SCP. Therefore it is concluded that the site is unlikely to give rise to pollution incidents during the operational phase and will be decommissioned in such a manner as to avoid pollution risk and return the site of operation to a satisfactory state.

The initial baseline conditions and nature of the site prior to commencement of the prescribed process, the nature of the potentially polluting substances stored on site and the potential pathways are detailed in the ASR and other documents accompanying the original permit application. For final Permit surrender, assessment will be undertaken of the site to assess its condition relative to the initial site report. If areas of deterioration during the operation of the site are identified these areas will be re-examined and returned to a satisfactory state as defined by the ASR. A final assessment report will be submitted to the Regulator with a Permit Surrender application.

It is acknowledged that the plan may require to be updated if any structural or process changes take place at the installation. If and when this is deemed necessary the relevant amendments shall be made and a copy forwarded to the Regulator for review. In line with the requirements of the permit the site closure plan will be reviewed, not less than every four years.


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Author: Richard Clarke
Revised by: K Phillips

Authorised By: Andrew Leeding

APPENDIX 04


Accident Management Plan

	Author	A Perry		Document Ref	HSQE 17.1	
	Title	Health Safety Quality and Environment Accident Management Plan				
	Date Created	06/12/21	Version	7	Review Date	06/12/24
	Responsibility	HSQ&EC Department				

Infinis
Accident Management Plan

This Accident Management Plan Document is the property of **Infinis**, and it may not be reproduced or disclosed in whole or in part to any third party without prior written authority.


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	Author	A Perry		Document Ref	HSQE 17.1
	Title	Health Safety Quality and Environment Accident Management Plan			
	Date Created	06/12/21	Version	7	Review Date 06/12/24
	Responsibility	HSQ&EC Department			

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	Author	A Perry		Document Ref	HSQE 17.1	
	Title	Health Safety Quality and Environment Accident Management Plan				
	Date Created	06/12/21	Version	7	Review Date	06/12/24
	Responsibility	HSQ&EC Department				

1 PURPOSE

This accident management plan describes the risks associated with accidents which can potentially have a health and safety or/and an environmental effect.

2 BACKGROUND

2.1 Permit requirements

Maintenance and implementation of an Accident Management Plan (AMP) is a requirement of Environmental Permits¹.

Permits state that AMPs must be reviewed:

- Periodically as prescribed by the permit or
- As soon as practicable after an accident (whichever is sooner)

Any changes which are identified as necessary during this review must be made as appropriate.

2.2 General Requirements

The general implementation of an AMP is good practice on non permitted sites as it gives vital information in the processes of dealing with an emergency. The planning of these emergency responses will prepare staff in the actions required and cut response times minimising personal injury, environmental contamination and property damage.

2.3 Existing documentation

Processes for complying with health, safety, environmental legal, business and other requirements are separately managed in accordance with the company's Business Management System which can be found on SharePoint. These individual processes may also identify actions to be taken in an emergency.

Accident and incident prevention is always the first priority and compliance with the Business Management System will manage the overall site health, safety and environmental management programme. This plan is intended to supplement the proactive control measures should an unintended event occur.


HSQE: 04 Accident, Dangerous Occurrence and Incident Reporting procedure describes the system in place to record an accident/incident and must be followed for all instances.

There are certain accidents and incidents identified by site specific Environmental Permits on permitted sites that will be require further action in accordance with EC4 Notification Procedure

3 RESPONSIBILITY

¹ The Environmental Permitting Regulations came into force on 6 April 2008. These merged Waste Management Licensing (WML) and the Pollution Prevention and Control (PPC) regimes. WMLs and PPC permits held at this time automatically became Environmental Permits. The conditions of these permits and licenses remained unchanged.

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It is the responsibility of the Regional Manager to assess the potential risk of the site using the risk assessment and environmental aspects assessment process. Those identified risks must have control measures assigned and actioned. For those assessments identifying a medium to high risk an additional method statement must accompany the risk assessment identifying the controls needed to minimise the risks to an acceptable level. Any further risks other than those identified in this management plan are to be communicated to the HSQE&C Team.

It is the responsibility of the Regional Manager to inform the landowner of emergencies as identified by the criteria for contact list. The logistics centre may also inform the landowner out of hours or as required.

4 HAZARD IDENTIFICATION

The following potential hazards have been identified at gas utilisation plants (GUPs):

- Fire, explosion and firewater containment
- General accidents / incidents
- Needle stick
- High Voltage and other electrical incidents
- Plant failure
- Emissions non-compliance
- Asphyxiation
- Toxicity
- Loss of containment – i.e. spillage and leakage which may occur due to
 - overflowing of vessels
 - damage or corrosion of tanks
 - bunds inadequate
 - damaged pipe work
 - leaking containers
 - flooding
- Security and vandalism
- **COVID-19**

5 RISK ASSESSMENT AND CONTROL MEASURES


5.1 Fire and Explosion

Risk factor

Potential fire and explosion risk hazards include:

- Electrical equipment that could provide an ignition source
- Static
- Smoking
- Grinding, cutting welding
- Batteries
- Hot surfaces
- Electrical appliances and other sources of ignition in the switch room together with:
 - materials that may burn – flammables & combustibles
 - waste oil that may support combustion
 - maintenance activities on plant and equipment

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- landfill gas
- Coal Mine Methane
- Natural Gas
- Propane
- Kerosene

Landfill gas is potentially explosive under certain conditions (between 4.4% and 16.5% v/v, at 20 degrees centigrade and 1 atmosphere pressure). Explosive atmospheres could potentially form in enclosed spaces.

Control measures

There are several proactive measures that can and are taken to minimise the potential for fire or explosion, for example:

- Compliance with DSEAR / industry ICOPs – On site Explosion Protection Document (EPD)
- Fire risk assessment (carried out and reviewed periodically by competent person)
- Limited sources of ignition (e.g. hot surfaces and hot work)
- Low flammability lubrication oil
- Fire fighting systems
- Fire extinguishers will be provided at designated locations
- Smoking is prohibited within the gas utilisation compound
- Suitable storage of combustible and flammable materials
- Training/ competence
- Drills
- Permit to work including hot work
- Risk assessment and associated safe systems of work
- Personal and fixed gas detection alarms
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.2 General Accidents and Incidents

Risk factor

Risks from general operations can result in an injury to personnel or property

Control measures


- Risk assessment and associated safe systems of work
- First aid, burns kits and eye wash stations
- First aid training
- Site accident book
- Lone worker procedures
- Inoculations
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.3 Plant Failure

Risk factor

Unexpected breakdown of engines or flares could result in short-term venting of untreated gas to atmosphere, the consequences of which will be dependent on the nature of the landfill gas.

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	Responsibility	HSQ&EC Department				

Control measures

- Automated engine management systems will be in place to identify problems with operation and to divert gas flows to standby flares for treatment
- Task-specific risk assessments are taken prior to planned maintenance to determine the need for alternative back-up generators or flares to control any gas released during shutdown
- In the event of unplanned shutdowns, automated monitoring of the site will indicate engine/flare failure to the central logistics centre from which plant can be restarted or plant/back-up equipment mobilised to control gas release. If this is not possible competent personnel will be despatched to site to investigate further and carry out repairs e.g. replace blower belts
- Where plant cannot be restarted, (e.g. due to an ongoing power failure), a risk assessment will be conducted by the relevant Regional Manager (or nominated Manager), to determine whether back-up equipment (flares and generators) are required to control gas release. This will involve consideration of:
 - Requirements of the gas management plan
 - Liabile duration of shutdown
 - Likelihood of migration, odour and complaints
- Where the event is liable to result in significant pollution or complaints, notification of the relevant enforcing authority and landfill site manager will be required in accordance with EC4 Notification Procedure
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.4 High Voltage and Other Electrical Incidents

Risk factor


Personnel may be at risk of electrocution when work on or near high and low voltage electrical systems, equipment and conductors

Control measures

- All high and low voltage equipment will be labelled appropriately
- Gas Utilisation Compounds have an appropriate earthing system
- Electrical failures and breakdowns are minimised through the planned preventative maintenance system which centres around Maximo
- Restriction of unauthorised personnel to low and high voltage systems
- Authorisation of competent personnel, issued with appropriate electrical procedures and permit
- Employee training (passport) to ensure non authorised personnel are aware of risks
- Employing competent approved contractors to carry out work who are controlled with HSQE 06.1 Safety Plan for Contract Works and HSQE 06.2 Contractors Pre Start Checklist
- All high voltage electrical equipment will have 'lock-off' and 'isolation' functions
- Mechanical and electrical isolations for low voltage equipment
- Use of screens or other equipment to ensure personnel cannot come into contact with live equipment
- Testing all portable appliances at suitable intervals
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.5 Asphyxiation and Toxicity

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	Responsibility	HSQ&EC Department				

Risk Factor

Accumulation of landfill gas in enclosed spaces can pose a direct risk to humans due to asphyxia. This may be caused when the oxygen content of the atmosphere in the breathing zone is reduced to 16% in normal air.

Some of the constituents of landfill gas can have toxic effects. These include carbon dioxide, and a number of trace components e.g. CO & H₂S.

Control measures

- Permit to work system to ensure entry into confined spaces is controlled and appropriate inspections and monitoring are carried out prior to entry into enclosed spaces
- Employee training (passport) will ensure awareness of risks
- Authorisation of trained competent personnel to enter such areas
- Personal gas monitors calibrated 6 monthly
- Designing out entry and elimination of such areas
- Risk assessment and associated safe systems of work
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.6 Loss of Containment - Spillage and Leakage

Risk Factor

Loss of containment could result in liquids containing oil or glycol being discharged into the site's surface drainage system and to groundwater or surface water. This can occur during refilling of plant, oil deliveries, plant servicing, plant breakdowns, accidents and/or damage/ vandalism to tanks and bunds.

Control measures


- Materials will be stored within tanks constructed to the appropriate British Standard, meeting the requirements of the Control of Pollution (Oil Storage) (England) Regulations, 2001
- All tanks will have bunds constructed to contain at least 110% of the contents of the tank
- Pipework and fittings will be suitably sealed
- Tanks will be inspected at regular intervals by the regional manager or their nominated deputy to ensure the continued integrity of the tanks and to identify the requirement for any remedial action
- Overfilling will be prevented by level-indicators on tanks and/or through regular inspections as detailed above
- Minor spillage accumulating within a bund will be removed at regular intervals to ensure the capacity of the bund is maintained
- COSHH assessments and Material Safety Data Sheets
- Site speed limits will be imposed to prevent the risk of impact damage due to vehicular movements
- Materials suitable for absorbing and containing minor spillage will be maintained on site with arrangements provided for disposing of contaminated materials
- All site personnel will be tasked with monitoring for evidence of spillage and leakage, during their day-to-day routine. Personnel will be trained to report any evidence of spillage or leakage to the Regional Manager or their nominated deputy for appropriate remedial action
- Spare pipe work fittings will be stored on site to repair damages
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures

5.7 Security and Vandalism

Risk Factor

Risks from the inadequate control over access to the site include the following:

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	Responsibility	HSQ&EC Department				

- Vandalism of engine, flare, pipe work or connections
- Inappropriate behaviour in areas of hazard e.g. smoking
- Violence to employees

This can require costly replacement or repair of stolen or damaged equipment and compromise the integrity of gas utilisation systems.

Control Measures

The following measures are implemented at the site:

- The utilisation compound has security lighting
- The installation boundary will be enclosed by fencing
- The installation will be accessed via gates. The gates will be kept locked whenever practicable
- An inspection and record of the conditions of security fencing and gates will be undertaken on a regular basis and exceptions, remedial actions and any items of note recorded in Maximo
- Lone workers have access to a 24 hour 7 day a week lone worker monitoring system
- High risk sites are reviewed periodically and technicians only attend during day light hours

5.8 Flooding

Risk factor

Loss of containment could result in liquids containing oil or glycol and other contaminants being discharged into the flooded area contaminating groundwater, surface water and local streams/rivers. Personnel are at risk of electrocution if water comes into contact with live HV or LV electrical equipment.

Control measures

- Materials will be stored within tanks constructed to the appropriate British Standard, meeting the requirements of the Control of Pollution (Oil Storage) (England) Regulations, 2001
- Pipework and fittings will be suitably sealed
- Tanks will be inspected at regular intervals by the regional manager or their nominated deputy to ensure the continued integrity of the tanks and to identify the requirement for any remedial action
- Minor spillage accumulating within a bund will be removed at regular intervals
- All site personnel will be tasked with monitoring for evidence of spillage and leakage, during their day-to-day routine
- Sampling and testing of flood water
- Site emergency procedures displayed on notice board, ref HSQE 17.2 Emergency procedures
- HSQE 53 Flood Management Process in place and high risk sites, as defined by flooding RA, have flood alert systems installed

5.9 COVID-19

Risk Factor


COVID-19 is a new disease. Evidence so far is that most cases are mild to moderate especially in healthy people of working age. In rare occurrences people can require hospitalisation. The outcome of a small proportion of these cases can be fatal.

Control Measures

Infinis will continue to follow the most current government advise on COVID-19, which includes the following documented in RA04 Infinis Coronavirus Risk Assessment.

- Reducing non-essential work / visits
- Maintaining social distancing

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	Responsibility	HSQ&EC Department				

- Maintaining hygiene standards
- Reducing the risk to the workforce
- Meetings & Training
- Managing outbreaks in the workforce

Where an incident occurs resulting in injury or escape from a dangerous situation is required, social distancing does not have to be maintained, if it will increase the risk to people on site.

APPENDIX 05


Emergency Preparedness and Response Procedure

	Author	A Perry		Document Ref	HSQE 17.0	
	Title	Health Safety Quality and Environment Emergency Preparedness and Response Procedure				
	Date Created	04/02/21	Version	9	Review Date	04/02/24
	Responsibility	HSQ&EC Department				

HSQ&EC Department Emergency Preparedness and Response Procedure

Revision	Date	Description	Prepared by	Approved by
8	04/02/21	Procedure Review	A Perry	Su Ruthven
9	07/02/23	Front Cover Inserted	D Layton	Su Ruthven

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 infinis	Author	A Perry		Document Ref	HSQE 17.0	
	Title	Health Safety Quality and Environment Emergency Preparedness and Response Procedure				
	Date Created	04/02/21	Version	9	Review Date	04/02/24
	Responsibility	HSQ&EC Department				

1 SCOPE

This procedure describes the systems in place to identify emergency scenarios associated with accidents which can potentially have a health and safety or/and an environmental effect and the appropriate controls to prevent and mitigate them. This procedure relies heavily upon the Major Incident Response Process and the Site Emergency Plans.

NOTE: AT INFINIS, SITE EMERGENCY PLANS INCLUDE THE ACCIDENT MANAGEMENT PLANS AS REQUIRED IN ENVIRONMENT AGENCY, NATURAL RESOURCE WALES AND SCOTTISH ENVIRONMENTAL PROTECTION AGENCY PERMITS

2 ACCIDENT AND INCIDENT REPORTING

The requirements for accident and incident reporting are included in HSQE: 04 Accident Dangerous Occurrence and Incident Reporting and EC4 Notification Procedure

3 SITE EMERGENCY PROCEDURES

Each site has an Emergency Plan based on a generic structure tailored for site specific circumstances. The Regional Manager for each site must review these documents for each site/operation under their control and ensure they are displayed on the site notice board. Localised emergency procedures such as specific site egress provisions, EA early flood warning notification must be included on the site induction.

3.1 Emergency Procedure Escalation

Anyone discovering an emergency or potential emergency must initiate the sites emergency procedures by contacting the Logistics Control Room on 01604 662420 directly. The Logistics Control Room will escalate the incident through to the appropriate management structure as identified in the escalation document held in the Logistics Centre.

The local Infinis person should manage the situation according to the Site Emergency Procedures and ensure as appropriate (as defined in the Major Incident Response Process and site Emergency Plan) that Infinis senior management, Head of HSQE&C, site management, landowners, emergency services and other interested parties have been contacted as per HSQE: 17.1 and HSQE:17.2.

3.2 Drills

Emergency plans and procedures should be reviewed/ tested periodically by TBT and demonstration and the results documented. It is the Regional Managers responsibility to ensure that drills are carried out, staff are aware of the procedures and the results are recorded during tool box talks.

Any improvements identified as part of a drill or actual occurrence must be reported to the HSQE&C team for approval and documenting in this and other associated documents. The procedure and associated documents will be reviewed annually as part of the internal audit and risk assessment process and following reported incidents.


3.3 Emergency contacts

In addition to the escalation procedure a list of other external emergency contact details are recorded in the Sites' Emergency Plans and the Major Incident Response Process to assist appropriate personnel in liaising with emergency services and regulatory bodies.

3.4 Landowner emergency procedures

It is the responsibility of the Landowner to communicate their individual emergency procedures to Infinis personnel. Infinis' Emergency Plans should takes cognisance of the local environment and therefore emergency procedures are designed to ensure activities undertaken on the landowners areas are covered by the Site Emergency Plans and procedures.

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	Responsibility	HSQ&EC Department				

Where practicable emergency procedures are aligned (e.g. muster points, schedule notifications) with those of the landowners.

4 EXTERNAL AGENCIES

It should be anticipated that the media and/or pressure groups are likely to show an interest in certain types of emergency. Handling of the media and pressure groups in these circumstances requires special skills to avoid confusion. It is particularly important that all employees know what to do if they are approached for comment. Unless explicitly authorised to do so, employees should neither comment or responded “no comment” rather they should refer the interested party to the designated contact point in accordance with the Major Incident Procedure.

5 REFERENCE DOCUMENTS

Site Emergency Plans
 HSQE 17.1
 HSQE 17.2 Site Emergency Procedures
 HSQE 30.2 Site Induction
 EC4 Notification Procedure

APPENDIX 06

Compliance Assessment Report 2011, report reference
CAR_ I/110630/ZP3535SQ

Name of site	Silent Valley Generation Plant EA/EPR/ZP3535SQ/V002	Operator / Permit holder	Infinis Limited	Permit ref no.	ZP3535SQ
Officer	A W Leakey, T Ward	Date	30/06/2011	Area / office	Wales (SE) - Rivers House
Activity	Combustion	Time in/out	13:30 / 16:30	Event type:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Incident <input type="checkbox"/> Other
Assessment type:	<input checked="" type="checkbox"/> Site inspection <input type="checkbox"/> Audit <input type="checkbox"/> Check monitoring/sampling <input type="checkbox"/> Report / data review <input type="checkbox"/> Procedure review				
Site life status:	<input checked="" type="checkbox"/> Operational <input type="checkbox"/> Pre-Operational <input type="checkbox"/> Post-operational				
Which part(s) of the permit were assessed? Maintenance process, reporting					

Compliance assessment summary

	1	2	3	4	5	Conditions breached
a) Permitted activities	1 N					
b) infrastructure	1 A	2 N	3 N	4 N	5 A	
c) General management	1 N	2 A	3 N	4 N		
d) Incident management	1 N	2 N				
e) Emissions	1 A	2 N	3 N	4 N	5 N	
f) Amenity	1 N	2 N	3 N	4 N	5 N	
g) Monitoring and records, maintenance and reporting.	1 N	2 N	3 N	4 N		
h) Resources efficiency	1 N	2 N				

The breaches indicated above may constitute one or more offences. You should take immediate action to rectify each breach and return to compliance. You should prevent any repetition of the breaches. Breaches of conditions as indicated above can result in criminal prosecutions and/or suspension or revocation of a permit.

NB. IF THERE IS A BREACH, ONLY ONE OF THE FOLLOWING WILL HAVE AN 'X' PLACED IN THE BOX

We will now consider what enforcement action is appropriate. <input type="checkbox"/>	At present we do not intend to prosecute you for the above offences. However, you are warned that this may change if further relevant information comes to light.	This is a site warning. <input type="checkbox"/> We have given you advice. <input type="checkbox"/>
---	---	--

Review of Directly Applicable Legislation: Key: A = Assessed, N = Not assessed, NA = Not Applicable, C1, C2, C3, C4 = CCS cat 1-4 breach. NA

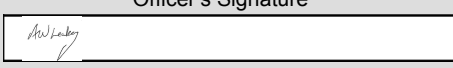
Report delivery method: copy left on site posted emailed faxed Date 11/07/2011

Comments

The following actions have been identified and require your attention. Please respond in writing by the date specified or contact the Environment Agency to agree an alternative date in advance:

1. ACTION: Infinis to consider the cost/benefits of an additional engine for 6-12 month period and submit recommendations to the Environment Agency by 31 August 2011.
2. ACTION: Infinis to provide evidence to support extraction downtime period required for maintenance and confirm changes to maintenance scheduling by 31 August 2011.

Please see continuation sheet for compliance assessment details.

Officer's Signature	Recipient's name or position within company		
	Compliance Engineer		
Continuation sheet used Yes	No of Pages 3	CCS record number	n/a

Notes to the recipient

This compliance report form may highlight non-compliance with your permit or directly applicable legislation as observed by the Environment Agency officer.

This does not relieve the site operator of their responsibility to ensure that they comply with the permit and to prevent pollution of the environment. You are also reminded that:

- you should comply with the conditions of the permit at all times
- compliance with the permit does not remove your obligation to comply with other legislative provisions which may apply.

Understanding the Compliance Assessment Summary

a) Permitted activities	1	Specified by permit
b) Infrastructure	1	Engineering for prevention and control of emissions
	2	Closure and decommissioning
	3	Site drainage engineering (clean and foul)
	4	Containment of stored materials
	5	Plant and equipment
c) General management	1	Staff competency/training
	2	Management system and operating procedures
	3	Materials acceptance
	4	Storage, handling, labelling and segregation
d) Incident management	1	Site security
	2	Accident, emergency and incident planning
e) Emissions	1	Air
	2	Land and groundwater
	3	Surface water
	4	Sewer
	5	Waste
f) Amenity	1	Odour
	2	Noise
	3	Dust/fibres/particulates and litter
	4	Pests, birds and scavengers
	5	Deposits on road
g) Monitoring and records, maintenance and reporting	1	Monitoring of emissions and environment
	2	Records of activity, site diary/journal/ events
	3	Maintenance records
	4	Reporting and notification to the Environment Agency
h) Resource efficiency	1	Efficient use of raw materials
	2	Energy efficiency

The term 'permit' for the purposes of this form includes: licences, authorisations and consents.

Understanding your non-compliance scores

Non-compliance findings are classified using our published Compliance Classification Scheme, (CCS).

This scheme categorises breaches of permit conditions based on their potential for environmental impact as shown below. If you wish to discuss further any comments made by the officer on this form, contact your local area office or for more details of the CCS scheme, see the Environment Agency's website or contact your local office.

CCS category	Description	Score
1	A non-compliance which has a potentially major environmental effect	60
2	A non-compliance which has a potentially significant environmental effect	31
3	A non-compliance which has a potentially minor environmental effect	4
4	A non-compliance which has no potential environmental effect	1

Corrective action

We have various options to ensure that you correct actual or potential non-compliance. We may

- advise on corrective actions, verbally or in writing and require you to take specific actions, by letter or by issuing a notice.
- require you to review your procedures or management systems
- change some of the conditions of your permit
- decide to undertake a full review of your permit

Any breach of a permit is an offence, and we may take legal action:

- We will normally provide advice/guidance to assist operators back into compliance. However, other than for a very minor offence this will normally be in conjunction with another enforcement response.
- Where we have issued a written warning this does not preclude us from taking additional enforcement action if further relevant information comes to light. Such action includes the issue of a formal caution, taking a prosecution and/or the service of a notice.

We have published our Enforcement and Prosecution Policy which seeks to achieve a consistent approach to enforcement across all our regulated activities.

Operational Risk Appraisal (Opra)

Compliance assessment findings may affect your Opra score. This score determines your charge and affects the allocation of our resources to check your compliance with the permit.

Data protection notice

The Environment Agency is responsible for regulating environmental protection, flood defence, water resources and fisheries. It has a duty to discharge its functions to protect and enhance the environment and to promote conservation and recreation. The information provided will be processed by the Environment Agency to fulfill its regulatory and monitoring functions, and to maintain the relevant public register(s). The Environment Agency may also use and/or disclose it in connection with:

- offering/providing you with its literature/services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities, emergency services) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

The Environment Agency may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The Environment Agency will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within twenty working days of receipt of the assessment form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter – What can I do if I disagree with the compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with the officer's line manager, Area Environment Manager or Area Manager. If you wish to raise your dispute further, this can be done through our official Complaints and Commendations procedure phone our general enquiry number 08708 506506 (Mon to Fri 08.00–18.00) and ask for the Customer Contact team, alternatively you can send an email to enquiries@environment-agency.gov.uk. If, after following our Complaints and Commendations procedure, you are still dissatisfied, you can make a complaint to the Ombudsman. For advice on how to complain to the Parliamentary Ombudsman phone their helpline on 0345 015 4033.



Comments

Site Inspection - Gas compound

Gas flow ~1150m³/hr @ 51.2% methane.

CAT engine running at near to full load, c 1,900 KWe output.

LFS 1,500m³/hr flare off. A new Hoftstetter pilot light has been installed which is being trialled for increased reliability in windy conditions.

Discussed the latest CQA Plan and further opportunities for power generation. It is likely that 150-200m³ more LFG @ >50% methane will be available.

ACTION: Infinis to consider the cost/benefits of an additional engine for 6-12 month period.

Review of notifications, monitoring and annual reports

All emissions compliant with limit values.

Notifications received during February and March relating to extraction system downtime during flare servicing. The duration of shutdown is reported to not normally be expected to result in significant pollution or complaints. There was no odour noted on site.

There is a need to have the engine off during a flare service at Silent Valley and it appears that despite the view that the gas field does not start to release fugitive gas emissions after a few hours without extraction, complaints of odour occur on most occasions when both flare and engine are not operating.

Evidence must be provided to demonstrate that the gas field does not start to significantly release gas soon after extraction is stopped at this site. This might be expected to be the case at sites with relatively extensive permanent and temporary capping and small working areas. However, Silent Valley currently has fairly large areas that are uncapped and will generate quite a lot of fugitive gas quickly.

Infinis need to improve procedures to ensure that scheduling of flare maintenance is carried out to avoid weather conditions when poor dispersion is likely. Longer-term consideration needs to be given to provision of temporary power and extraction during unavoidable periods of engine and flare downtime.

ACTION: Infinis to provide evidence to support extraction downtime period required for maintenance and confirm changes to maintenance scheduling.

END

APPENDIX 07

Compliance Assessment Report 2012, report reference
CAR_ I/120127/ZP3535SQ

Name of site	Silent Valley Generation Plant EA/EPR/ZP3535SQ/V002	Operator / Permit holder	Novera Energy Generation No 2 Limited	Permit ref no.	ZP3535SQ
Officer	A W Leakey, T Ward	Date	27/01/2012	Area / office	Wales (SE) - Rivers House
Activity	Combustion	Time in/out	10:30 / 14:00	Event type:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Incident <input type="checkbox"/> Other
Assessment type:	<input checked="" type="checkbox"/> Site inspection <input type="checkbox"/> Audit <input type="checkbox"/> Check monitoring/sampling <input type="checkbox"/> Report / data review <input type="checkbox"/> Procedure review				
Site life status:	<input checked="" type="checkbox"/> Operational <input type="checkbox"/> Pre-Operational <input type="checkbox"/> Post-operational				
Which part(s) of the permit were assessed?					
Plant condition, accident management, annual monitoring report					

Compliance assessment summary

Key to completion: A = Assessed/Assessed in part (no evidence of non-compliance) NA = Not Applicable 1, 2, 3, 4 = CCS cat 1-4 breach	ATL = Approach to limit N = Not assessed	Conditions breached
a) Permitted activities	1 N	
b) infrastructure	1 A 2 N 3 N 4 N 5 A	
c) General management	1 N 2 A 3 N 4 N	
d) Incident management	1 N 2 A	
e) Emissions	1 A 2 N 3 N 4 N 5 N	
f) Amenity	1 A 2 N 3 N 4 N 5 N	
g) Monitoring and records, maintenance and reporting.	1 A 2 N 3 N 4 A	
h) Resources efficiency	1 N 2 N	

The breaches indicated above may constitute one or more offences. You should take immediate action to rectify each breach and return to compliance. You should prevent any repetition of the breaches. Breaches of conditions as indicated above can result in criminal prosecutions and/or suspension or revocation of a permit.

NB. IF THERE IS A BREACH, ONLY ONE OF THE FOLLOWING WILL HAVE AN 'X' PLACED IN THE BOX

We will now consider what enforcement action is appropriate. <input type="checkbox"/>	At present we do not intend to prosecute you for the above offences. However, you are warned that this may change if further relevant information comes to light.	This is a site warning. <input type="checkbox"/> We have given you advice. <input type="checkbox"/>
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Review of Directly Applicable Legislation: Key: A = Assessed, N = Not assessed, NA = Not Applicable, C1, C2, C3, C4 = CCS cat 1-4 breach. NA

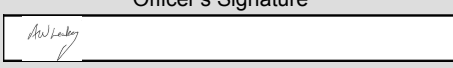
Report delivery method:
 copy left on site
 posted
 emailed
 faxed
 Date:

Comments

The following actions have been identified and require your attention. Please respond in writing by **30/6/12** or contact the Environment Agency to agree an alternative date in advance:

1. Service report containing the corrective measures and repairs to be provided as soon as practicable by Silent Valley/Infinis.
2. Infinis to forward details of corrective actions taken in respect of the shut down on 23/3/11.

Please see continuation sheet for compliance assessment details.

Officer's Signature	Recipient's name or position within company
	Compliance Engineer
Continuation sheet used Yes	CCS record number
No of Pages <input style="width: 20px; text-align: center;" type="text" value="3"/>	n/a

Notes to the recipient

This compliance report form may highlight non-compliance with your permit or directly applicable legislation as observed by the Environment Agency officer.

This does not relieve the site operator of their responsibility to ensure that they comply with the permit and to prevent pollution of the environment. You are also reminded that:

- you should comply with the conditions of the permit at all times
- compliance with the permit does not remove your obligation to comply with other legislative provisions which may apply.

Understanding the Compliance Assessment Summary

a) Permitted activities	1	Specified by permit
b) Infrastructure	1	Engineering for prevention and control of emissions
	2	Closure and decommissioning
	3	Site drainage engineering (clean and foul)
	4	Containment of stored materials
	5	Plant and equipment
c) General management	1	Staff competency/training
	2	Management system and operating procedures
	3	Materials acceptance
	4	Storage, handling, labelling and segregation
d) Incident management	1	Site security
	2	Accident, emergency and incident planning
e) Emissions	1	Air
	2	Land and groundwater
	3	Surface water
	4	Sewer
	5	Waste
f) Amenity	1	Odour
	2	Noise
	3	Dust/fibres/particulates and litter
	4	Pests, birds and scavengers
	5	Deposits on road
g) Monitoring and records, maintenance and reporting	1	Monitoring of emissions and environment
	2	Records of activity, site diary/journal/ events
	3	Maintenance records
	4	Reporting and notification to the Environment Agency
h) Resource efficiency	1	Efficient use of raw materials
	2	Energy efficiency

The term 'permit' for the purposes of this form includes: licences, authorisations and consents.

Understanding your non-compliance scores

Non-compliance findings are classified using our published Compliance Classification Scheme, (CCS).

This scheme categorises breaches of permit conditions based on their potential for environmental impact as shown below. If you wish to discuss further any comments made by the officer on this form, contact your local area office or for more details of the CCS scheme, see the Environment Agency's website or contact your local office.

CCS category	Description	Score
1	A non-compliance which has a potentially major environmental effect	60
2	A non-compliance which has a potentially significant environmental effect	31
3	A non-compliance which has a potentially minor environmental effect	4
4	A non-compliance which has no potential environmental effect	0.1

Corrective action

We have various options to ensure that you correct actual or potential non-compliance. We may

- advise on corrective actions, verbally or in writing and require you to take specific actions, by letter or by issuing a notice.
- require you to review your procedures or management systems
- change some of the conditions of your permit
- decide to undertake a full review of your permit

Any breach of a permit is an offence, and we may take legal action:

- We will normally provide advice/guidance to assist operators back into compliance. However, other than for a very minor offence this will normally be in conjunction with another enforcement response.
- Where we have issued a written warning this does not preclude us from taking additional enforcement action if further relevant information comes to light. Such action includes the issue of a formal caution, taking a prosecution and/or the service of a notice.

We have published our Enforcement and Prosecution Policy which seeks to achieve a consistent approach to enforcement across all our regulated activities.

Operational Risk Appraisal (Opra)

Compliance assessment findings may affect your Opra score. This score determines your charge and affects the allocation of our resources to check your compliance with the permit.

Data protection notice

The Environment Agency is responsible for regulating environmental protection, flood defence, water resources and fisheries. It has a duty to discharge its functions to protect and enhance the environment and to promote conservation and recreation. The information provided will be processed by the Environment Agency to fulfill its regulatory and monitoring functions, and to maintain the relevant public register(s). The Environment Agency may also use and/or disclose it in connection with:

- offering/providing you with its literature/services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities, emergency services) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

The Environment Agency may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The Environment Agency will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within twenty working days of receipt of the assessment form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter – What can I do if I disagree with the compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with the officer's line manager, Area Environment Manager or Area Manager. If you wish to raise your dispute further, this can be done through our official Complaints and Commendations procedure phone our general enquiry number 08708 506506 (Mon to Fri 08.00–18.00) and ask for the Customer Contact team, alternatively you can send an email to enquiries@environment-agency.gov.uk. If, after following our Complaints and Commendations procedure, you are still dissatisfied, you can make a complaint to the Ombudsman. For advice on how to complain to the Parliamentary Ombudsman phone their helpline on 0345 015 4033.



Comments

Gas compound

Gas flow ~850m³/hr @ 56.5% methane; this is a slight reduction on previous visits.

CAT engine running at reduced load due to valve regression, 1,350KWe output (usually 1,700-1,800 KWe.) A full overhaul or rebuild will be required.

LFS 1,500m³/hr flare on. The Hofstetter pilot light which has been installed has provided increased reliability in windy conditions.

A piece of insulation has fallen into the base of the unit, so the lining needs to be inspected and repaired. In addition, the flare temperature of 270 degrees C and operation / position of thermocouple should be investigated (temp setting of unit is 1000 degrees C.)

ACTION: Service report containing the corrective measures and repairs to be provided as soon as practicable by Silent Valley/Infinis.

Discussed further opportunities for power generation. The operator considers the cost of bringing in an additional engine for a short period would outweigh the benefits.

Gas field

New deep gas extraction wells installed prior to capping. Several wells were inspected and monitored using a GEM analyser. Most were turned on and under negative pressure; however it was difficult to detect flow in several. Many of these wells are less than 2 years old. Odour detected at some locations.

It is essential that levels of perched leachate are recorded and monitored so that the slotted area of the gas extraction pipe work is maximised. The operator is undertaking a full dip survey in February and it is likely that provision for dewatering will need to be provided.

Upon completion of the survey Silent Valley Waste Services Ltd will arrange a meeting with Infinis and Environment Agency to agree a well dewatering plan for perching.

Pipe work falls are generally adequate; however some low points and condensate blockages were recorded. Ongoing maintenance.

Condensate from KO pots in on Cell 5 lower south flank is now pumped to leachate lagoon.

The flank to north of cell 5 Upper has been re-profiled to a shallower gradient, discussed a possible new line of gas wells installed along the top of batter. Also discussed zone of influence drawing and other parts of site where well coverage could be improved.

Reviewed temporary falls in cell 5 Upper. At present these are too varied for effective long term management of condensate so it is essential that this part of the site is re-graded as part of the permanent capping scheme for this area.

Fugitive emissions in Cell 5 Upper were witnessed from the gas pressure seen to be bubbling up through surface pooling on the edges.

Accident Management Plan

The plan would benefit from inclusion of site-specific details of local drainage systems and incorporation of any measures necessary to prevent loss of spilled materials into those drainage systems.

Annual Report

No non-compliances with permit identified. Emissions monitoring was compliant with ELVs.

A malfunction of the control system on the flare resulted in a notifiable shutdown of the plant in March 2011. A Part B Notification detailing the corrective actions taken to prevent a recurrence is not available on file.

ACTION: Infinis to forward details of corrective actions taken in respect of the shut down on 23/3/11.

END

APPENDIX 08

Schedule 6 Part B Notification dated 24th March 2011

Schedule 6 – Notification

These pages outline the information that the Operator must provide.

Units of measurements used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number	ZP3535SQ
Name of Operator	Novera Energy Generation 2 Ltd (Infinis Plc)
Location of the Installation	Silent Valley gas utilisation plant
Time and date of the detection	23/03/11

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause, significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	23/03/11 20:15 – 22:00
Reference or description of the location of the event	Generation compound
Description of where any release into the environment took place	Silent Valley landfill
Substance(s) potentially released	Landfill gas (potentially)
Best estimate of the quantity or the rate of release of substances	Unquantifiable but unlikely to be significant due to the short duration of the shutdown.
Measures taken, or intended to be taken, to stop any emission	A technician attended site and restarted the blower and flare. The engine was restarted at 22:20
Description of the failure or accident.	A malfunction of the control system on the flare resulted in a shutdown of the plant.

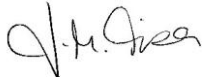
(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point/reference source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substance(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A	The pilot proving eye failed to see the flame and closed the slam shut valve, the pressure control valve opened to compensate. The eye then registered the pilot flame and relit the main burner. The slam shut opened fully and starved the engine of gas which shut down leading to a sudden back pressure which caused the gas plant to trip.
Measures taken, or intended to be taken, to prevent recurrence of the incident	The pilot proving eye was cleaned and Ennate asked to attend as a matter of urgency. An Ennate technician will attend site on 25 th March to investigate possible alterations to the flare control system to prevent recurrence of this problem.
Measures taken, or intended to be taken to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	Gas plant and engine restarted
The dates of any unauthorised emissions from the installation in the preceding 24 months	17/02/11

Name*	Jennie Tipler
Post	Engineer, Compliance
Signature	
Date	24 March 2011

*authorised to sign on behalf of Infinis

APPENDIX 09

Compliance Assessment Report 2017, report reference
CAR_NRW0026426

This form will report compliance with your permit as determined by an NRW officer

Site	Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004	Permit Ref	ZP3535SQ		
Operator/Permit holder	Novera Energy Generation No.2 Limited				
Regime	Installations				
Date of assessment	23/01/2017	Time in	N/A	Out	N/A
Assessment type	Report/Data Review				
Parts of the permit assessed	See below				
Lead officer's name	Ward, Tyrone				
Accompanied by					
Recipient's name/position	Su Ruthven/ Engineer Compliance	Date issued	11/05/2017		

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS Scores can be consolidated or suspended where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.

Permit conditions and compliance summary	CCS Category	Condition(s) breached
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	A	

KEY: See Section 5 for breach categories, suspended scores will be indicated as such.
A = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,
O = Ongoing non-compliance, not scored.

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- The part(s) of the permit that were assessed (eg. Maintenance, training, combustion plant, etc)
- Where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- Any non-compliances identified
- Any non-compliances with directly applicable legislation
- Details of any multiple non-compliances
- Information on the compliance score accrued inc.
- Details of advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

1. Annual Report 2016 received and reviewed.
2. EMS Targets and Objectives 2017 received and reviewed.
3. Engine Emissions report 2017. We have received the 2017 engine emission results on 26th April and agree with the findings of the report (note 5)

EPR Compliance Assessment Report

**Report ID:
CAR_NRW0026426**

This form will report compliance with your permit as determined by an NRW officer

Site	Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004	Permit Ref	ZP3535SQ
Operator/Permit holder	Novera Energy Generation No.2 Limited	Date	23/01/2017

Section 3 – Enforcement Response

You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.

Other than the provision of advice and guidance, at present we do not intend to take further enforcement action in respect of the non-compliance identified above. This does not preclude us from taking enforcement action if further relevant information comes to light or advice isn't followed.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			

Section 5 – Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- Advise on corrective actions verbally or in writing
- Require you to take specific actions verbally or in writing
- Issue a notice
- Require you to review your procedures or management system
- Change some of the conditions of your permit
- Decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and/or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- Ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- Ensure you comply with other legislative provisions which may apply

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance that could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- Offering/providing you with its literature/services relating to environmental matters
- Consulting with the public, public bodies and other organisations (eg. Health and Safety Executive, local authorities) on environmental issues
- Carrying out statistical analysis, research and development on environmental issues
- Providing public register information to enquirers
- Investigating possible breaches of environmental law
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Regulations request

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within fifteen working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with officer's line managers using the informal appeals procedure. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00 – 18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.

APPENDIX 10

Compliance Assessment Report 2019, report reference
CAR_NRW0033446

This form will report compliance with your permit as determined by an NRW officer

Site	Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004	Permit Ref	ZP3535SQ		
Operator/Permit holder	Novera Energy Generation No.2 Limited				
Regime	Installations				
Date of assessment	01/06/2018	Time in	N/A	Out	N/A
Assessment type	Report/Data Review				
Parts of the permit assessed	See below				
Lead officer's name	Ward, Tyrone				
Accompanied by					
Recipient's name/position	Kate Phillips/ Compliance Engineer	Date issued	07/02/2019		

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS Scores can be consolidated or suspended where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.

Permit conditions and compliance summary	CCS Category	Condition(s) breached
G1 - Monitoring and Records, Maintenance and Reporting - Monitoring of emissions and environment	A	
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	A	

KEY: See Section 5 for breach categories, suspended scores will be indicated as such.

A = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,

O = Ongoing non-compliance, not scored.

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- The part(s) of the permit that were assessed (eg. Maintenance, training, combustion plant, etc)
- Where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- Any non-compliances identified
- Any non-compliances with directly applicable legislation
- Details of any multiple non-compliances
- Information on the compliance score accrued inc.
- Details of advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

2018 Engine emissions report

We agree with the findings of the report (note 5)

2018 Annual Report

Received and reviewed.

EPR Compliance Assessment Report

**Report ID:
CAR_NRW0033446**

This form will report compliance with your permit as determined by an NRW officer

Site	Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004	Permit Ref	ZP3535SQ
Operator/Permit holder	Novera Energy Generation No.2 Limited	Date	01/06/2018

Section 3 – Enforcement Response

You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			

Section 5 – Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- Advise on corrective actions verbally or in writing
- Require you to take specific actions verbally or in writing
- Issue a notice
- Require you to review your procedures or management system
- Change some of the conditions of your permit
- Decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and/or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- Ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- Ensure you comply with other legislative provisions which may apply

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance that could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- Offering/providing you with its literature/services relating to environmental matters
- Consulting with the public, public bodies and other organisations (eg. Health and Safety Executive, local authorities) on environmental issues
- Carrying out statistical analysis, research and development on environmental issues
- Providing public register information to enquirers
- Investigating possible breaches of environmental law
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Regulations request

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within fifteen working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with officer's line managers using the informal appeals procedure. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00 – 18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.

APPENDIX 11

Compliance Assessment Report 2020, report reference
CAR_NRW0036633

Compliance Assessment Report CAR_NRW0036633

Permit being assessed: ZP3535SQ.

For: Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004, held by Novera Energy Generation No.2 Limited

At: Silent Valley Landfill Site , Cwm, Ebbw Vale, Blaenau Gwent, NP23 6PZ.

Type of assessment carried out: Report/Data Review, Reason: Routine.

On 24/11/2020.

Parts of permit assessed: See below

NRW Lead Officer: Tyrone Ward.

Report sent to: Kate Phillips, Engineer Compliance on 24/11/2020.

1. Summary of our findings (full details in section 4)

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	Assessed (A)	
G1 - Monitoring and Records, Maintenance and Reporting - Monitoring of emissions and environment	Assessed (A)	

Result types are explained in more detail in the 'Important Information' section below.

Total number of non-compliances recorded	Total non-compliance score
0	0

How we use the non-compliance score to calculate your annual fee is explained in the 'Important Information' section below.

2. What action is required?

No action required.

3. What will happen next?

Any non-compliance we have identified and recorded on this form is an offence. It can result in criminal prosecution and/or suspension or revocation of your permit.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

2019 Annual Report

Received and reviewed.

2020 Engine emissions report

We agree with the findings of the report (note 5)

If you have any queries about this report, or to discuss completion of any actions, please contact the NRW Officer named above.

Important information

Legal status of this report

Your permit is issued to you under the Environmental Permitting Regulations. You have a responsibility to comply with the conditions of your permit and prevent pollution/harm of the environment. You must also ensure that you comply with any other relevant legislation that may apply to your site's operations.

This report explains the findings of our assessment and any action you are required to take. We categorise non-compliance using our guidance for assessing non-compliance at regulated sites.

When we find potential non-compliance/s we will normally give you advice on how to maintain compliance.

To correct non-compliance, we may:

- require you to take specific actions
- issue a notice
- review the conditions of your permit.

Any advice and guidance we give will be without prejudice to any other enforcement response that we consider may be required.

Assessment results and non-compliance categories (used in section 1):

Assessment result	Description
Assessed (A)	Assessed or assessed in part, no evidence of non-compliance found
Action only (X)	Action only relating to the activity assessment
Ongoing (O)	Ongoing non-compliance, not scored

Non-compliance category	Description	Score
C1 Major	Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property	60
C2 Significant	Potential to have a significant impact or effect on the environment, people and/or property	31
C3 Minor	Potential to have a minor or minimal impact or effect on the environment, people and/or property	4
C4 No environmental impact	Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property	0.1

How we use assessment scores

The number and severity of non-compliances recorded in a year will affect your annual subsistence fee the following year. A non-compliance factor is added to your site's Operator

Performance Risk Appraisal (OPRA) score when we calculate your fee to reflect the additional resource we use to assess permit compliance.

What are suspended scores?

In line with our guidance, we may suspend scores for up to six months to allow time for remedial action to be taken. Suspended scores will be re-instated if the action is not completed.

Full list of Industry and Waste action criteria (used in section 1 and 2):

A: Permitted activities

- A1 Specified by permit

B: Infrastructure

- B1 Infrastructure – Engineering for prevention and control of emissions
- B2 Infrastructure – Closure and decommissioning
- B3 Infrastructure – Site drainage engineering (clean and foul)
- B4 Infrastructure – Containment of stored materials
- B5 Infrastructure – Plant and equipment

C: General management

- C1 General management – Staff competency/training
- C2 General management – Management system and operating procedures
- C3 General management – Materials acceptance
- C4 General management – Storage, handling, labelling and segregation

D: Incident management

- D1 Incident management – Site security
- D2 Incident management – Accidents, emergency and incident planning

E: Emissions

- E1 Emissions – Air
- E2 Emissions – Land and groundwater
- E3 Emissions – Surface water
- E4 Emissions – Sewer
- E5 Emissions – Waste

F: Amenity

- F1 Amenity – Odour
- F2 Amenity – Noise
- F3 Amenity – Dust/fibres/particulates and litter
- F4 Amenity – Pests/birds and scavengers
- F5 Amenity – Deposits on road

G: Monitoring and records, maintenance and reporting

- G1 Monitoring and records, maintenance and reporting – Monitoring of emissions and environment
- G2 Monitoring and records, maintenance and reporting – Records of activity, site diary/journal/events
- G3 Monitoring and records, maintenance and reporting – Maintenance records
- G4 Monitoring and records, maintenance and reporting – Reporting and notification to Natural Resources Wales

H: Resources efficiency

- H1 Resource efficiency – Efficient use of raw materials
- H2 Resource efficiency – Energy efficiency

Enforcement response

Any permit condition non-compliance is an offence and we may take legal action against you. Action we take can include prosecution, serving a notice on you and/or suspension or revocation of your permit. See our Enforcement and Sanctions Guidance for further information.

Data protection notice

You should make sure that anyone named in this report knows that the information it contains will be processed by Natural Resources Wales to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s).

We may also use and/or disclose the report in connection with:

- offering or providing you with our literature or services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law
- assessing customer service satisfaction and improving our service
- Freedom of Information Act or Environmental Information Regulations requests.

We may also pass it on to our agents or representatives to do these things on our behalf.

Disclosure of information – this report will be available to view on-line

If you think this report contains commercially confidential information that should not be placed on our public register, you must contact your local Natural Resources Wales office within **fifteen working days** of receiving this report, using the contact details in the accompanying email or letter. You must give a full explanation of why it should not be added to our public register, including specifying which information is commercially confidential. We will assess your request and respond to you within 20 working days to let you know if we agree to your request.

What do I do if I disagree with the report or have a complaint?

If you disagree with this compliance assessment report, you should contact the lead officer without delay to discuss your concerns.

If you are unable to resolve the issue with the lead officer or their line manager you should contact our Customer Contact team on 0300 065 3000 (Monday to Friday 08:00 – 18:00), or email enquiries@naturalresourceswales.gov.uk for details of how to raise your dispute further through our Complaints and Commendations procedure.

If you are dissatisfied with our response, you can contact the Public Services Ombudsman for Wales by phone on 0300 7900203 or by email at ask@ombudsman.wales

Welsh Language Standards

We are committed to establishing Natural Resources Wales as a naturally bilingual organisation. We will provide compliance reports in your preferred language.

APPENDIX 12

Compliance Assessment Report 2022, report reference
CAR_NRW0040364

Compliance Assessment Report CAR_NRW0040364

Permit being assessed: ZP3535SQ.

For: Silent Valley Generation Plant NRW/EPR/ZP3535SQ/V004, held by Novera Energy Generation No.2 Limited

At: Silent Valley Landfill Site , Cwm, Ebbw Vale, Blaenau Gwent, NP23 6PZ.

Type of assessment carried out: Unknown, Reason: Other.

On 01/11/2022.

Parts of permit assessed: 2.1.1

NRW Lead Officer: Luke Burton.

Report sent to: George Augood, Senior Technician, Infinis on 01/11/2022.

1. Summary of our findings (full details in section 4)

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
A1 - Specified by permit	Action only (X)	

Result types are explained in more detail in the 'Important Information' section below.

Total number of non-compliances recorded	Total non-compliance score
0	0

How we use the non-compliance score to calculate your annual fee is explained in the 'Important Information' section below.

2. What action is required?

Criteria	Action needed	Complete by
A1	<p>If NEGL anticipate they can no longer meet the definition of operator on 12 December 2022 they must confirm to NRW whether they will make or take part in an application to transfer the permit to another operator, or fully surrender the permit.</p> <p>OR</p> <p>If NEGL feel they will still meet the definition of operator on 12 December 2022 they must provide NRW written evidence to support this.</p>	15/11/2022

Action criteria codes are listed in the 'Important information' section below.

3. What will happen next?

Any non-compliance we have identified and recorded on this form is an offence. It can result in criminal prosecution and/or suspension or revocation of your permit.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

Natural Resources Wales (NRW) has become aware that Novera Energy Generation No. 2 Limited's (NEGL) lease to the land at the Silent Valley Generation Plant will end on 11 December 2022.

This may compromise NEGL's ability to hold environmental permit ref EPR/ZP3535SQ.

Regulation 7 of The Environmental Permitting Regulations (2016) and Regulatory Guidance Note 1: define 'an operator' as the person who has control over the operation of a regulated facility. If the permit holder is not allowed access to that regulated facility, they do not meet that definition and cannot hold their permit.

This Compliance Assessment Report notifies NEGL that if the lease is not extended beyond 11 December 2022, NEGL will no longer meet the definition of operator from 12 December 2022.

Action NEGL:

- If NEGL anticipate they can no longer meet the definition of operator on 12 December 2022 they must confirm to NRW by the 15/11/22 whether they will make or take part in an application to transfer the permit to another operator, or fully surrender the permit.

OR,

- If NEGL feel they will still meet the definition of operator on 12 December 2022 they must provide NRW written evidence to support this by the 15/11/22.

If NEGL intend to make or take part in an application to transfer or surrender the permit - NRW can provide up to 2 hours free pre-application advice and guidance on the application process. NEGL should note that the transfer of the permit, rather than surrender, is the quickest and most cost-effective way forward, subject to the proposal being acceptable.

If NEGL feel they will still meet the definition of operator on 12 December 2022 NRW will review any evidence to support this and advise accordingly.

NRW hopes the matter will not reach this stage, but we must make you aware of the following, now:

If come 12 December 2022 NEGL's lease to the land at the Silent Valley Generation Plant has ended and NEGL no longer meet the definition of operator and the generation plant permit has not been successfully transferred or surrendered – NRW will be forced to consider our enforcement options, which includes revocation of environmental permits.

END

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If you have any queries about this report, or to discuss completion of any actions, please contact the NRW Officer named above.

Important information

Legal status of this report

Your permit is issued to you under the Environmental Permitting Regulations. You have a responsibility to comply with the conditions of your permit and prevent pollution/harm of the environment. You must also ensure that you comply with any other relevant legislation that may apply to your site's operations.

This report explains the findings of our assessment and any action you are required to take. We categorise non-compliance using our guidance for assessing non-compliance at regulated sites.

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- require you to take specific actions
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Assessment results and non-compliance categories (used in section 1):

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Welsh Language Standards

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APPENDIX 13

Site Photographs (December 2022)

Appendix 13- Site Photographs- December 2022



Appendix 13- Site Photographs- December 2022



Appendix 13- Site Photographs- December 2022



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