

Afon Wysg BESS

784-B068690



Verification Report



V1

AW1 Energy Storage Limited

June 2026

**Document prepared by Tetra Tech Limited. Registered in England number:
01959704**



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Figure 1 – Site Location Plan

Appendices

Appendix A: Report Conditions

Appendix B: Information from Client

Acronyms/Abbreviations

Acronyms/Abbreviations	Definition
AOD	above Ordnance Datum
bgl	below ground level
BGS	British Geological Survey
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
C4SL	Category 4 Screening Levels
CIEH	Chartered Institute of Environmental Health
CLEA	Contaminated Land Exposure Assessment
CoC	Constituent of Concern
CSM	Conceptual Site Model
DEFRA	Department of Environment, food and Rural Affairs
DQRA	Detailed Quantitative Risk Assessment
DTS	Desktop Study
DRO	Diesel Range Organics
DWS	Drinking Water Standard
EA	Environment Agency (England)
EPH	Extractable Petroleum Hydrocarbons
EQS	Environmental Quality Standards
FOC	Fraction Organic Carbon
GPR	Ground Penetrating Radar
LOD	Limit of detection
LQM	Land Quality Management
NRW	Natural Resources Wales
OS	Ordnance Survey
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PPE	Personal Protection Equipment
ppm	parts per million
PRO	Petroleum Range Organics
SGV	Soil Guideline Values
SOM	Soil Organic Matter
SVOC	Semi-volatile organic compounds

TPH	Total Petroleum Hydrocarbon
TSV	Tier 1 Screening Values
VOC	Volatile Organic Carbon
VPH	Volatile Petroleum Hydrocarbons

1.0 Introduction

1.1 Instruction

Tetra Tech Limited (Tetra Tech) was commissioned by AW1 Energy Storage Limited (the client) to prepare a Materials Management Plan Verification Report to support the development for a Battery Energy Storage System (BESS) at a site known as Afon Wysg BESS, within Uskmouth Power Station (known hereafter as “the site”).

The location of the site is shown in Figure 1.

1.2 Summary of Development

The development on site consists of the construction of a raised plateau to accommodate a Battery Energy Storage System (BESS) consisting of a series of batteries along with ancillary plant and cable runs.

1.3 Planning Context

Planning permission for the BESS scheme was granted on 8th December 2022 subject to a series of Planning Conditions including the following conditions which relate to the management and assessment of contamination on the site:

Condition 2 - No development (including any engineering works to cut or fill the site), of land known to be/suspected of contamination shall commence until the following components of a scheme to deal with the risks associated with contamination at the site, has been submitted to and approved in writing by the Local Planning Authority.

- 2a – A Preliminary Risk Assessment (PRA).
- 2b – A Site Investigation Scheme based on the findings of the PRA.
- 2c – Remediation Options Appraisal and Strategy.
- 2d – Verification Plan

Condition 9 - Prior to the occupation or operation of the development a verification report demonstrating completion of works set out in the approved remediation strategy and the effectiveness of the remediation shall be submitted to and approved in writing by the Local Planning Authority. The report shall include results of sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that the site remediation criteria have been met. It shall also include a long-term monitoring and maintenance plan for longer-term monitoring of

pollutant linkages, maintenance and arrangements for contingency actions, as identified in the verification plan (Condition 2d). The long-term monitoring and maintenance plan shall be carried out in accordance with the approved details.

Condition 15 – If, during development, contamination not previously identified is found to be present at the site then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until a remediation strategy detailing how this unsuspected contamination shall be dealt with has been submitted to and approved in writing by the Local Planning Authority. The remediation strategy shall be carried out as approved.

A ground investigation has been undertaken on the site by Tetra Tech, which are presented in the following reports:

- Tetra Tech. Afon WSYG Cond Discharge, Factual Report V1.1. AW1 Energy Storage Ltd. November 2024.
- Tetra Tech. Afon WSYG Cond Discharge, Ground Investigation Interpretive Report V1. AW1 Energy Storage Ltd. December 2024.
- Tetra Tech. Afon WSYG Cond Discharge, CW-DQRA Report V1. AW1 Energy Storage Ltd. December 2024.
- Tetra Tech. Afon WSYG Cond Discharge, Reactive Remediation Strategy Report V1. AW1 Energy Storage Ltd. December 2024.

The results of the ground investigations did not identify any significant contamination associated with the onsite materials, other than asbestos, and as such a focused Remediation Options Appraisal and Strategy was not considered necessary, however given the industrial nature of the site a Reactive Remediation Strategy was developed to establish a framework whereby any previously unencountered contamination is identified, tested and managed appropriately within the context of the proposed development.

This was presented in the following document:

- Tetra Tech. Afon WSYG Cond Discharge, Reactive Remediation Strategy Report V1. AW1 Energy Storage Ltd. December 2024.

1.4 Scope

This Verification Report aims to summarise the works associated with the discharge of planning Condition 9 with regards to unforeseen contamination. The verification report includes the following key elements:

- Summary of the site history, environmental setting and project description;
- Validation testing and results;
- Record of material tracking including importation of materials and off-site disposal of wastes; and,

1.5 Project Team

Role	Company
Site Owners	AWE1 Energy
Principal Contractor	Jones Brothers Limited
Geoenvironmental Consultant	Tetra Tech
Regulatory Body	Newport City Council
Regulatory Body	Natural Resources Wales

1.6 Limitations

The recommendations and opinions expressed in this report are based on information obtained as part of the data review or provided by others. Information provided from other sources is taken in good faith and Tetra Tech cannot guarantee its accuracy.

This report is subject to the report conditions presented in Appendix A.

The information contained in this report is intended for the use of the AW1 Energy Storage Limited and Tetra Tech can take no responsibility for the use of this information by any third party or for uses other than that described in this report or detailed within the terms of our engagement.

2.0 Site Information

2.1 Introduction

This section of the report provides a brief summary of the environmental setting of the site. Further detailed information is available within the reports referenced above which should be read in conjunction with this Verification Report.

2.2 Location

The site is located on the former cooling towers area within Uskmouth Power Station. The main part of the site is approximately 4.50ha in area and is centered on National Grid Reference (NGR) 332912, 183934.

The site address is: Uskmouth Power Station, West Nash Road, Nash, Newport, NP18 2BZ.

A site location plan is presented in Figure 1.

2.3 Site Description

The site is situated within the land associated with the Uskmouth Power Station, located on the bank of the River Usk, which is approximately 4km south of Newport, South Wales. The main area of the site is situated within the former cooling tower area and consists of largely open lightly vegetated landscape with two remaining concrete basins which are present at the north and south of the site, trending east to west. Two sections of road to the south and west are captured within site bounds.

The main area of ground investigation was noted to be sparsely vegetated with gentle slope to the east. During the ground investigation, numerous areas of standing water were noted, with concrete basins having several inches in the base. The site surface in the main site area comprises gravel hardcore and demolition rubble of the cooling towers. Surrounding the main site is a grass covered area. The road sections and car park comprise asphalt. The main area of site was noted to be soft underfoot.

The site is largely level, with exploratory hole location levels between 8 m AOD and 9 mAOD.

2.4 Geology, Hydrogeology and Hydrology

Ground conditions on site were found to comprise localised Made Ground to a maximum proven depth of 4.50m which is anticipated to be present across the entity of the site. The

Made Ground comprised of both granular and fine materials, typically described as a silty sandy GRAVEL, sandy clayey GRAVEL, sandy gravelly CLAY or slightly sandy CLAY. The stratum has an abundance of rootlets and local variance in gravel and cobble content. Anthropogenic materials are also present including concrete, brick and slag. Hardstanding was located at the surface of fourteen exploratory hole locations to a maximum thickness of 0.35m bgl.

Underlying the Made Ground are superficial strata associated with the Tidal Flat Deposits, encountered within sixteen locations in the GI. The strata comprised fine grained material and typically described as a mottled silty CLAY or a clayey SILT.

The superficial deposits are, in turn, underlain by strata associated with the Mercia Mudstone Group. This stratum was not encountered during the ground investigation, but are anticipated to consist of “Dominantly red, less commonly green-grey, mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum/anhydrite are widespread; thin sandstones are also present”.

The Mercia Mudstone Group bedrock is designated as a Secondary B Aquifer. The Superficial Deposits of Tidal Flat Deposits are designated as Unproductive Strata. These are predominantly rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The site is located approximately 200m from the River Usk at its closest point and the main area of site has an overflow drainage system which flows into Julian’s Reen to the west of site, which drains into the River Usk, which is tidally influenced at this point.

2.5 Summary of Site History

It is understood that from around 1963 the site has been developed for use in association with Uskmouth A Power Station and used as cooling towers which overtime has built up and lead to significant thickness of Made Ground. The site largely remained unchanged, with tanks shown on site plans in 2003. A railway which was present to the south has now been demolished. Currently the land remains as an empty parcel following the demolition of the cooling towers.

3.0 Summary of Previous Works

3.1 Previous Ground Investigations

The intrusive works undertaken in 2024 recovered soils to a maximum depth of 10 m bgl.

Made Ground was encountered at surface, in all exploratory hole positions to a maximum thickness of 4.0m bgl. Typically Made Ground comprised slightly clayey sandy gravel and sandy gravelly clay or silt. Tidal Flat Deposits underlies Made Ground, encountered to a maximum depth of 10.45m bgl. TFD typically comprised a silty clay or clayey silt. Bedrock was not encountered.

With regard to the screening criteria for commercial end use, there were no exceedances identified in collected soil samples from Made Ground and natural strata.

Asbestos was recorded within the Made Ground material, however the report highlights that the importation of virgin aggregate to the site to raise site levels would lead effectively cap the site and remove direct pathways to the underlying soils.

The CW-DQRA confirmed that recorded contaminants within the groundwater below the site are not adversely impacting key off site receptors.

3.2 Outline Remediation Strategy

Significant ground contamination was not identified on the site during the ground investigation, however due to the nature of the historical development recorded on the site, a Reactive Approach was recommended to provide a framework whereby previously unidentified contamination could be identified and assessed if encountered during the earthworks phase.

4.0 Outline Specification & Mitigation Measures

4.1 Outline Specification

The Tetra Tech Reactive Remediation Strategy (Tetra Tech, 2024) called for the following specification/ mitigation measures to be undertaken:

- Materials found to be unsuitable for re-use to be removed from site as a waste to an appropriately licensed facility;
- Site won materials to be tested at a frequency of one sample per 250m³ and test results screened against generic assessment criteria for a commercial end use scenario with respect to risks to human health;
- Site won materials at a frequency of one sample per 1,000m³ will be scheduled for single state batch leachate analysis at 10:1 ratio (BS EN 12457-2) and screened against water quality standards which are protective of controlled waters. The findings of these test results should be used to update the controlled waters risk assessment;
- With the exception of virgin quarry aggregate, imported materials will be sampled at a rate of one sample per 1,000m³ at source and test results screened against generic assessment criteria for a commercial end use scenario with respect to risks to human health;
- Imported soils and aggregates to be tested at a frequency of one sample per 1,000m³ for the presence of asbestos unless virgin soils/ aggregates from an appropriately licensed quarry.
- In addition, imported soils shall not contain foreign materials such as plastics, glass, metals, tarmac, etc. The imported materials should be demonstrated to be suitable for use within the context of the proposed development; and,
- Provision of a Discovery Strategy in the event of the identification, delineation and management of previously unidentified ground contamination which may be encountered during the development phase.

5.0 Verification Information

5.1 Introduction

This Verification Report has been prepared in order to demonstrate compliance with the requirements of the Reactive Remediation Strategy and to discharge relevant planning conditions associated with the construction of the BESS at Afon Wysg.

The following information has been summarised from the report prepared by Jones Brothers (included as Appendix B) following the completion of the earthworks phase and includes the following information.

- Imported Materials
 - Imported Aggregates
- Exported Materials

5.2 Reactive Remediation Strategy

The Reactive Remediation Strategy document outlined the requirement for a proactive approach to be adopted during the earthworks phase whereby a watching brief was maintained to identify areas of potential contamination.

Tetra Tech was not made aware of any potential contamination being identified during the works that required any further assessment.

5.3 Imported Materials

Materials imported to the site were in the form of graded quarry aggregates and as such were exempt from importation testing.

5.4 Exported Materials

Topsoil materials were removed from the site, testing provided by Jones Brothers indicated laboratory testing classifying the materials as non-hazardous for the purposes of waste disposal.

Tetra Tech have not been provided with copied of the waste disposal tickets for review.

6.0 Completion Statement

6.1 Verification Statement

Tetra Tech did not undertake any on site inspections during the earthworks phase and the report is therefore based on information provided by the contractor and included in Appendix B.

In summary:

- A watching brief was maintained by the contractor during the earthworks phase, Tetra Tech was not made aware of any areas of potential contamination being encountered during the works and as such no further assessment or risk management was deemed necessary.
- Materials imported to the site consisted of graded quarry aggregates and as such these were excluded from the testing requirements for imported materials.

6.2 Residual Risk Assessment

The development is considered to have had the following impact on the contamination risk assessment for the site.

- The construction of a raised platform, predominantly consisting of imported quarry aggregate will reduce the risk potential posed by the site including:
 - Removal of direct access to Made Ground soils due to the placement of imported aggregate across the majority of the site area.
 - Construction of a managed SuDS system reduces the infiltration across the site, reducing the mobilisation of contaminants into the shallow groundwater and surface water bodies.

6.3 Long Term Monitoring

Based on the results of the ground investigation and observations from the development phase, long term monitoring of ground contamination is not considered necessary.

Figures

Figure 1 – Site Location Plan



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Rev	Description	Date	Drn	Chk	App

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Client
AW1 Energy Storage Limited

Project Name
AFON WYSG 1 BATTERY ENERGY STORAGE SYSTEM (BESS)

Sheet Title
SITE LOCATION PLAN

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A4	Suitability
784-B068873	PP	15.10.24	JC	15.10.24	PV	15.10.24	1:25,000	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
B068873	- TTE	- 00	- XX	- DR	- U	- 0001	P01	

Appendix A: Report Conditions

APPENDIX A - REPORT CONDITIONS

This report is produced solely for the benefit of *AW1 Energy Storage Ltd* and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research. Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices or amended legislation may necessitate a re-assessment.

The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.

The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.

Appendix B: Information from Client

Laboratory Test Certificate

CJAssociates

Site Afon Wysg
Client Jones Bros Ruthin (Civil Engineering) Co Ltd

F.A.O. Sion Williams
Address Ty Glyn
Canol y Dre
Ruthin
Denbighshire
LL15 1QW

Order Number TBC
Job Number 2441224
Lab Number L17495

Number of samples submitted for testing: 7 sample (s)

Moisture Content	.....	6	test(s)
Atterberg Limit	.....	1	test(s)
Particle Size Distribution	.....	1	test(s)
Aggregate PSD	.....	1	test(s)
MCV @ NMC	.....	1	test(s)
Los Angeles	.....	1	test(s)
Waste Classification Suite	.....	1	test(s)
Disposal of Asbestos Positive Sample	.....	1	per sample

Results apply to the sample(s) as received.

* Non UKAS accredited test

Date (s) sample (s) received at laboratory:	.....	1	Jul-24
Date of receipt of testing instructions	.....	1	Jul-24
Date testing started:	.....	2	Jul-24
Date of issue:	.....	20	Aug-24

Please note that we will keep the sample (s) for one month after submission of our report and will then dispose of them without notice unless you ask us to store them. We will then make a separate charge for this.



1429

Approved by :
Lisa Maiden

R Maiden

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C.J. Associates Geotechnical Ltd
Portview Road
Avonmouth - Bristol BS11 9JE
Tel: 0117 982 1473

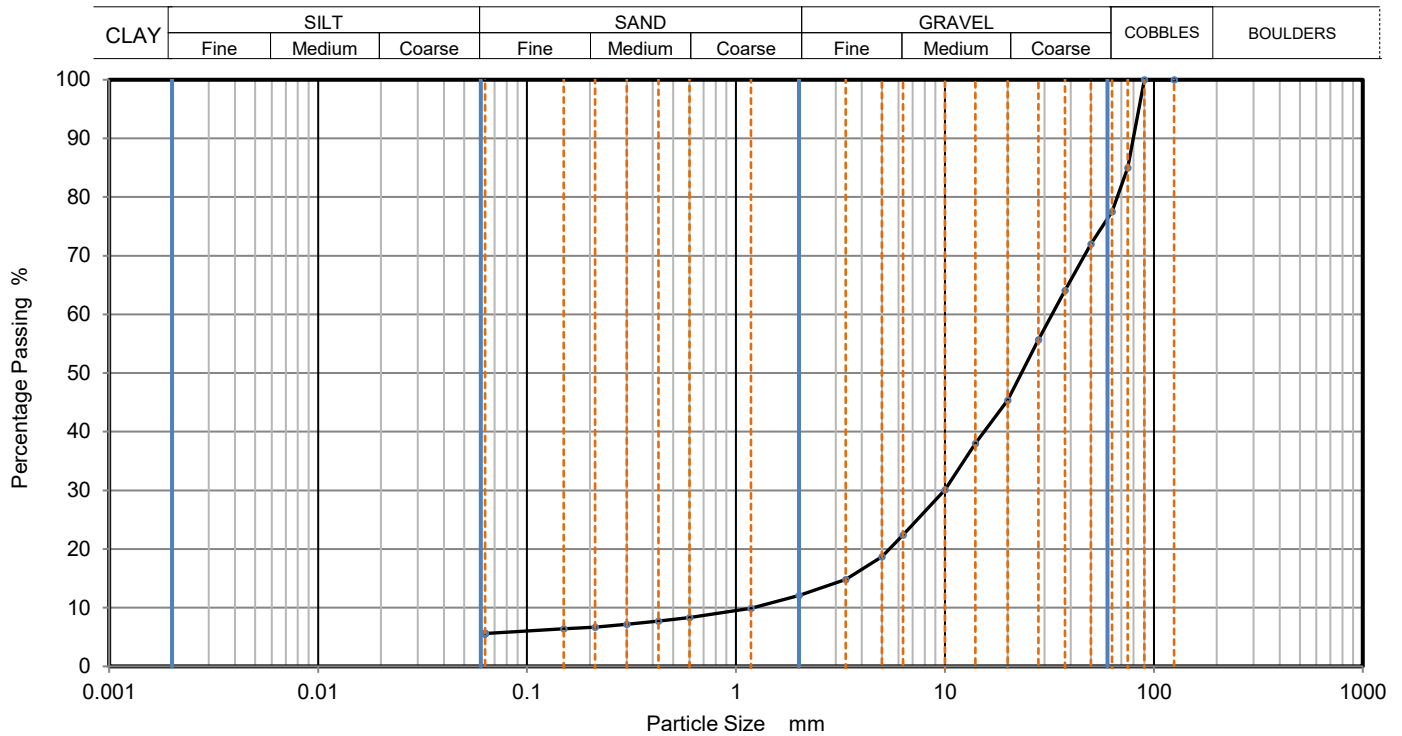
Time [12:07] Date [20/08/2025]

Page [] of []

Water Content Performed in accordance with BS EN ISO 17892-1 : 2014

Key				Date Printed	Approved By	Table
Density test	Liquid Limit	Atterberg Prep	Particle density	08/08/2025 00:00	Lisa Maiden	1
Linear measurement	4pt cone unless :	1. in natural condition	sp - small pyknom			sheet
wd - water displacement	cas - Casagrande method	2. after >425um removed by hand	gj - gas jar			1
wi - immersion in water	1pt - single point test	3. after washing to remove >425um				

	PARTICLE SIZE DISTRIBUTION			Job Ref	2441224
				Borehole/Pit No.	Sample 7
Site Name	Afon Wysg			Sample No.	1A
Soil Description	Brown silty sandy GRAVEL with high cobble content			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	CJA_202507145



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	85		
63	78		
50	72		
37.5	64		
28	56		
20	45		
14	38		
10	30		
6.3	22		
5	19		
3.35	15		
2	12		
1.18	10		
0.6	8		
0.425	8		
0.3	7		
0.212	7		
0.15	6		
0.063	6		

Dry Mass of sample, g

58498

Sample Proportions	% dry mass
Very coarse	23
Gravel	66
Sand	7
Fines <0.063mm	6

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	27
Curvature Coefficient	2.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Material complies with Class 1A grading requirements. Testing undertaken in accordance with documented British standard so measurement of uncertainty not applied to the statement of conformity.

Operator	Checked	Approved	Sheet printed	Fig 1
		Lisa Maiden	08/08/2025 13:36	
				Sheet

TEST REPORT
WATER CONTENT AND PARTICLE SIZE DISTRIBUTION
BS EN 1097-5:2008 & BS EN 933-1:2012

Project No.: 2441224 Project Name: Afon Wysg Sample No.: 21672	Client: Jones Bros. Ruthin (Civil Engineering) Co. Ltd Address: Ty Glyn, Canol y Dre, Ruthin, Denbighshire LL15 1QA
---	--

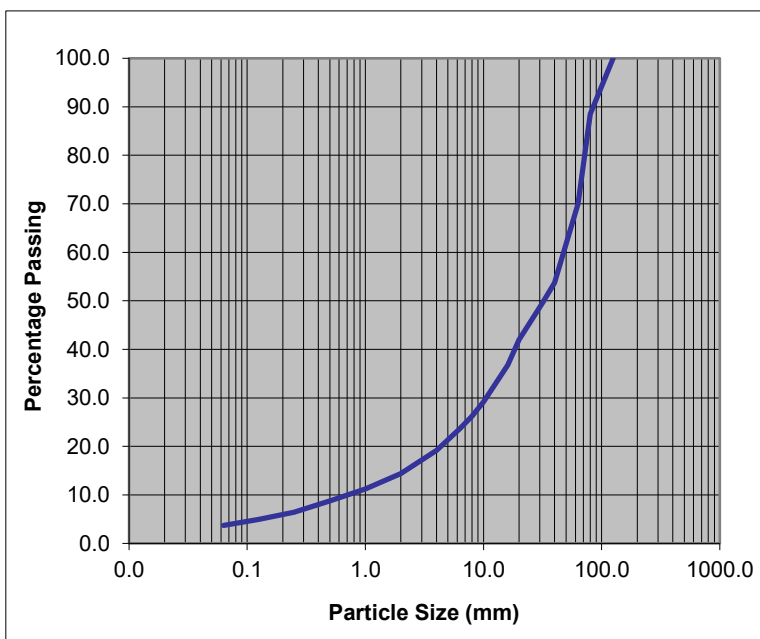
Site Reference: Sample 2 Location in works: Stockpile Date Sampled: 01 July 2025 Sampled By: M Roberts Sampling Certificate Received: Yes Date Received: 01 July 2025	Sample Type: Bulk Material Description: Dark grey slightly silty sandy GRAVEL with high cobble content Material Source: Site Won Material Supplier: Site Won Specification: SHW Series 600 Date Tested: 17 July 2025
--	---

TEST RESULTS

Particle Size (mm)	Percentage Passing	Specification
125.0	100	100
80.0	89	75 - 99
63.0	70	
40.0	54	50 - 90
31.5	50	
20.0	42	30 - 75
16.0	37	
10.0	29	15 - 60
8.0	26	
6.3	24	
4.0	19	
2.0	14	0 - 35
1.0	11	
0.5	9	
0.250	6	
0.125	5	
0.063	3.7	0 - 12

Water Content (%)	4.5	* Non UKAS Accredited Test
-------------------	-----	----------------------------

Dry mass of sample, kg	95.1
Method of Analysis	Washing & Sieving



Remarks: Material complies with 6F5 grading requirements.

N.B. Testing is carried out in accordance with documented British Standard so measurement of uncertainty has not been applied to the statement of conformity

QA Ref. EN 933-1 Rev. 3.0	 Unit 3, Block 6 Newlands Ave, Brackla Industrial Estate, Bridgend, CF31 2DA. Tel: 01656 657710	Approver R Anstee, Materials and Field Testing Director	Date 18/07/2025	Fig.
--	--	---	---------------------------	-------------



Laboratory Report



Contract Number: 79896

Client Ref: **L17495-S11185**

Client PO: **2441224**

Date Received: **18-07-2025**

Date Completed: **07-08-2025**

Report Date: **07-08-2025**

Client: **CJ Associates**

This report has been checked and approved by:

Contract Title: **Afon Wysg**
For the attention of: **Lisa Maiden**


Shaun Jones
Laboratory manager

Description	Qty
MCV at received Water Content BS 1377-2:2022 Clause 13.4 - * UKAS	1
Los Angeles Abrasion Value BS EN 1097-2 - * UKAS	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

Approved Signatories:

Brendan Evans (Senior Office Administrator) - Brendan Evans (Business Support Co-ordinator) - Darren Bourne (Quality Senior Technician)

Paul Evans (Director) - Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager)

Shaun Thomas (Site Manager) - Wayne Honey (HR & HSE Manager)

**Determination of Moisture Condition Value at
Natural Water Content (MCV)
BS 1377-2:2022 Clause 13.4**

Contract Number

79896

Borehole/Pit No.

Sample 7

Project Name

Afon Wysg

Sample No.

Soil Description

Grey silty Gravel

Depth Top

Depth Base

Date Tested

05/08/2025

Sample Type

B

Number of blows	Penetration mm	Change in Penetration n to 4n blows
1	64.1	6.8
2	64.0	10.7
3	58.7	7.9
4	57.3	8.1
6	54.7	7.6
8	53.3	7.9
12	50.8	7.5
16	49.2	6.4
24	47.1	4.6
32	45.4	
48	43.3	
64	42.8	
96	42.5	
128		
192		
256		

Method of interpretation of the test curve

Best Fit

Material Retained 20mm (%)

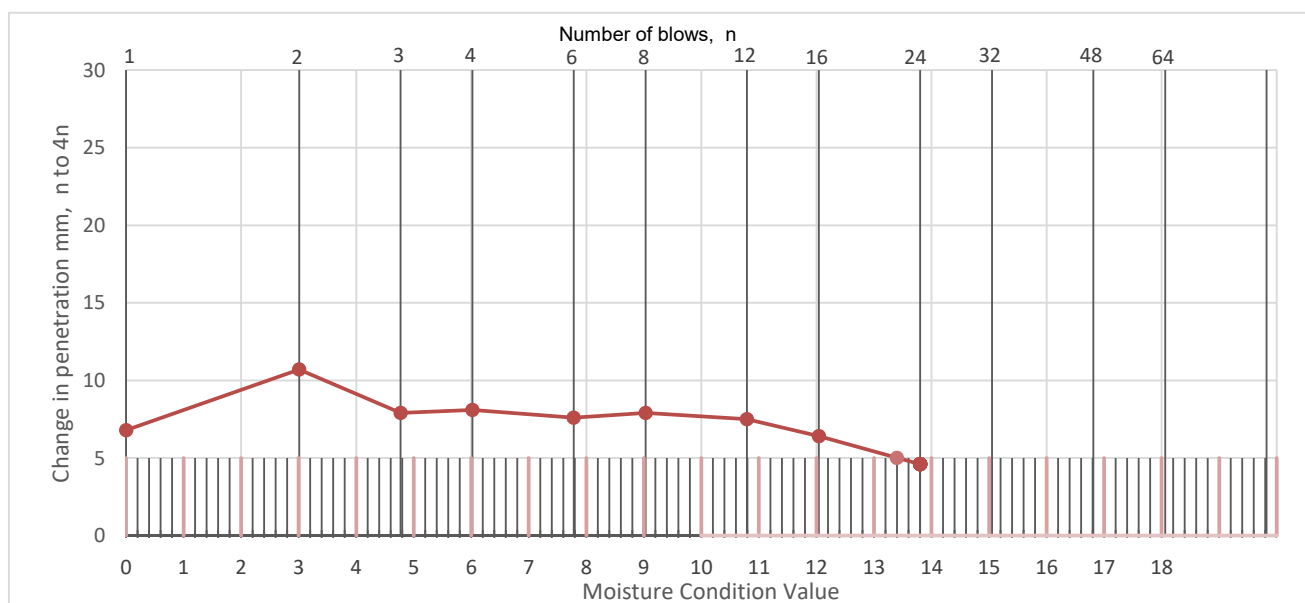
0

Natural Water Content (%)

1.7

MCV Value (%)

13.4



Operator

Cameron E.



Contract Number	79896	
Project Name	Afon Wysg	
Sample Preperation		
Date Tested	21/07/2025	

[illegible]

<u>Key</u>	<u>Reported As</u>
Size Fraction Max	mm
Size Fraction Min	mm

Method of Sampling done by client. Sample reduction in accordance with BS EN 932-2 Methods for reducing laboratory samples

Operator
Julian J

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/07145
Issue Number: 1

Date: 09 July, 2025

Client: CJ Associates (Bridgend)
Unit 1-3, Block 6, Newlands Avenue
Brackla Industrial Estate
Bridgend
Mid Glamorgan
CF31 2DA

Project Manager: Admin/Lisa Maiden
Project Name: Afon Wysg
Project Ref: 2441224 - L17495 - S11174
Order No: N/A
Date Samples Received: 03/07/25
Date Instructions Received: 03/07/25
Date Analysis Completed: 09/07/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/07145

Client Project Name: Afon Wysg

Client Project Ref: 2441224 - L17495 - S11174

Lab Sample ID	25/07145/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sample 1									
Depth to Top										
Depth To Bottom										
Date Sampled	01-Jul-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6AB									
% Moisture at <40C _A	4.5							% w/w	0.1	A-T-044
% Stones >10mm _A	<0.1							% w/w	0.1	A-T-044
pH _D ^{M#}	8.66							pH	0.01	A-T-031s
Arsenic _D ^{M#}	11							mg/kg	1	A-T-024s
Cadmium _D	1.7							mg/kg	1	A-T-024s
Copper _D ^{M#}	45							mg/kg	1	A-T-024s
Chromium _D ^{M#}	17							mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1							mg/kg	1	A-T-040s
Lead _D ^{M#}	130							mg/kg	1	A-T-024s
Mercury _D	<0.17							mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	23							mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1							mg/kg	1	A-T-024s
Zinc _D ^{M#}	255							mg/kg	1	A-T-024s

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Lab Sample ID	25/07145/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	Sample 1									
Depth to Top										
Depth To Bottom										
Date Sampled	01-Jul-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6AB									
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	Amosite									A-T-045
Asbestos Matrix (visual) ₀	-									A-T-045
Asbestos Matrix (microscope) ₀	Loose Fibres									A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ₀	N/A									A-T-045

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Lab Sample ID	25/07145/1									
Client Sample No										
Client Sample ID	Sample 1									
Depth to Top										
Depth To Bottom										
Date Sampled	01-Jul-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6AB									
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01							mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01							mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02							mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.09							mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.08							mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.15							mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.06							mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07							mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.13							mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04							mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.16							mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01							mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.06							mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03							mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.08							mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.15							mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	0.96							mg/kg	0.01	A-T-019s
TPH Total with CLEAN UP + ID										
TPH total (>C6-C40) _A	128							mg/kg	10	A-T-007s
TPH ID Interpretation _A	C12-C40 with unknown hydrocarbons									A-T-007s