| Report No | Date |
| --- | --- |
| 25056/R1 | September 2025 |
| Project | |
| **CWMAVON – REMEDIATION VERIFICATION REPORT** | |
| Client | |
| **TRJ** | |

**Spectrum Geo Services**
**Foxglove Cottage,**
**Cwm Risca Lane,**
**Tondu,**
**BRIDGEND**
**CF32 0EH**

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| Report No: | Date: |
|---|---|
| **25056/R1** | **September 2025** |

| Project: |
|---|
| **CWMAVON – REMEDIATION VERIFICATION REPORT** |

| Issue Number | Status | Description of Amendments |
|---|---|---|
| **1** | **Draft** | |
| **2** | **Final** | Capping Verification and Water pipe bedding |
| | | |
| | | |

| **Report prepared by:** | |
|---|---|
| Signed  | BSc.(Hons), MSc., FGS, CGeol |

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# FOREWORD

## General Conditions Relating to a Verification Report

*This investigation has been devised to generally comply with the relevant principles and requirements of B.S.10175:2011+A2:2017 'Investigation of potentially contaminated sites - Code of practice', science report SC050021/SR3 'Updated Technical Background to the CLEA Model' (Environment Agency, 2008), and DEFRA/Environment Agency (EA), 2019 'land contamination: risk management'. The recommendations made and opinions expressed in this report are based on the information obtained from the sources described using a methodology intended to provide reasonable consistency and robustness.*

*The opinions expressed in this report are based on the ground conditions revealed by the site works, together with an assessment of the site and of laboratory test results. Whilst opinions may be expressed relating to sub-soil conditions in parts of the site not investigated, for example between exploratory positions, these are only for guidance and no liability can be accepted for their accuracy.*

*Boring and sampling procedures are undertaken in accordance with B.S.5930:2015 +A1:2020 'Code of Practice for Ground Investigations'. Likewise, in-situ and laboratory testing complies with B.S.1377:1990 'Methods of Tests for Soils for Civil Engineering Purposes' and B.S.22475:2011, unless stated otherwise in the text. Chemical testing has been undertaken by a UKAS accredited laboratory.*

*Some items of the investigation have been provided by third parties and whilst Spectrum Geo Services Ltd (SGS) have no reason to doubt the accuracy, the items relied on have not been verified. No responsibility can be accepted for errors within third party items presented in this report.*

*This report is produced in accordance with the scope of SGS's appointment and is subject to the terms of appointment. SGS accepts no liability for any use of this document other than by its client and only for the purposes, for which it was designed and produced. No responsibility can be accepted for any consequences of this information being passed to a third party who may act upon its contents/recommendations.*

*Any advice, opinions, or recommendations within this document should be read and relied upon only in the context of the document as a whole. The contents of this document are not to be construed as providing legal, business or tax advice or opinion.*

# 1.0 TERMS OF REFERENCE AND INTRODUCTION

The work covered by this document was undertaken on behalf of TRJ, in general accordance with and amendment to the following document:

- *Remediation Strategy. Cwmavon. 22177/R4, September 2024.*

The work described in this report represents validation and verification of the required remediation, within that report, comprising a CS2 Gas Barrier System to the building, verification of the Cover System and bedding to drinking water pipes.

## 1.2 Scope of Works

The objectives of this assessment are:

- To verify the requirements of the Remediation Strategy.

## 1.3 Development Proposals

It is understood that the intention is to develop the site for the purposes of a Childrens Day Care Centre

## 1.4 Limitations

Subsoils are inherently variable and by their very nature are hidden from view such that no investigation can be exhaustive to the extent that all soil conditions are revealed. Conditions may therefore be present beneath the site that was not apparent from the data available for review.

Unless specifically noted to the contrary, it should be assumed that this report has not been submitted to any regulatory authorities for approval. Redevelopment sites in particular may have planning conditions attached in respect of contaminated land assessment. Where we are made aware of such conditions in advance of scoping the works, we can tailor the report to the regulatory authority requirements. Where we are not made aware of any such requirements there can be no certainty that our investigation will meet any or all the regulatory authority requirements.

## 2.0 BACKGROUND INFORMATION

### 2.1 Verification Report Structure

This document has been set out as follows:

• A brief background of the site, the findings of previous investigations and nature of the remediation planned.

• A description of the activities undertaken.

• Concluding with an assessment of the compliance with the revised Remediation Strategy.

Appended to this document is supporting evidence as follows:

- Photographs taken during the verification of the gas barrier installation, trial pitting and site plates of bedding to water pipes.
- Imported Cover Systems soil test results

### 2.2 Site Location

The site is located at 91 Waun Wen Road, Cwmafan, SA12 9ED.

At the time of the investigation, the site comprised an open area of tarmacadamed car park.

A site location plan is included in Figure 1.

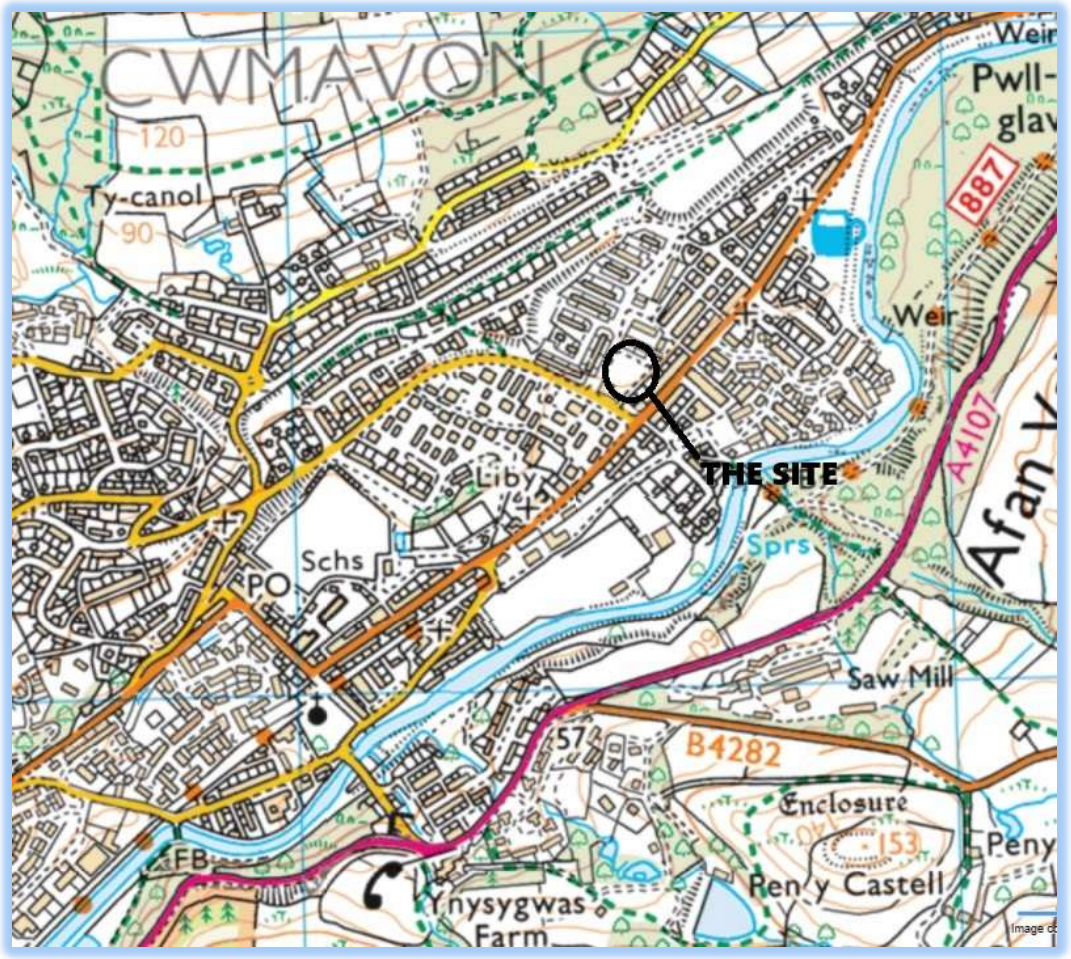



***Figure 1. Site Location Plan***

## 2.3 Previous Reports

SGS had previously investigated the site within:

- *Supplementary Ground Investigation Report, Cwmavon. September 2023, Report 22177/R2.*
- *Remediation Strategy, Cwmavon, September 2024. Report 22177/R4.*

Potable water pipes required no special measures as no contamination was found which would impact a UKWIP analysis. Photographs of the bedding to water pipes are appended for clarity.

# 3.0 GAS BARRIER

## 3.1 Introduction

Due to the CS2 classification within the remediation strategy and Risk Assessments, a suitable gas barrier system was included within the structural design.

Photographic evidence of the installation is appended.

# 4.0 COVER SYSTEM

Areas of soft landscaping were required under the Remediation Strategy to be covered with 600mm of “inert” imported material, with a no dig separator layer. It should be noted, that all of the soft landscaped areas are outside the fenced area in which the children could access, and thus they will not come into contact with those areas.

Hand dug pits were undertaken to the no dig barrier and samples taken for laboratory analysis in accordance with the Remediation Strategy.

The Hand Pit logs and laboratory testing area appended, along with site photographs of each pit.

When compared with 6% organic RESI with, RESI Without and Pos RESI SGVs and other limits, it was found that all positions did not exceed those limits and thus complies with the Remediation Strategy targets. The relations ships are shown in Table 4.

| Client Sample ID | Units | HP01 | HP02 | HP03 | HP04 | | | |
|---|---|---|---|---|---|---|---|---|
| Depth to Top | | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| Depth to Bottom | | 0.60 | 0.60 | 0.60 | 0.60 | | | |
| Sample Type | | Soil - ES | Soil - ES | Soil - ES | Soil - ES | S4UL/ C4SL Resi With | S4UL/ C4SL Resi Without | POS Resi |
| % Stones >10mm | % w/w | <0.1 | <0.1 | <0.1 | <0.1 | | | |
| pH | pH | 8.26 | 8.42 | 8.1 | 8.1 | | | |
| Sulphate (water sol 2:1) | g/l | <0.01 | <0.01 | <0.01 | 0.01 | | | |
| Organic matter | % w/w | 7.5 | 7.02 | 3.49 | 5.64 | | | |
| Arsenic | mg/kg | 16 | 10 | 7 | 8 | 37 | 40 | 79 |
| Boron (water soluble) | mg/kg | <1.0 | <1.0 | <1.0 | <1.0 | 290 | 11000 | 21000 |
| Cadmium | mg/kg | <1.0 | <1.0 | <1.0 | <1.0 | 11 | 65 | 120 |
| Copper | mg/kg | 33 | 39 | 21 | 29 | 2400 | 7100 | 12000 |
| Chromium | mg/kg | 14 | 24 | 14 | 15 | 910 | 910 | 1500 |
| Chromium Hex | mg/kg | <1 | <1 | <1 | <1 | 6 | 6 | 7.7 |
| Lead | mg/kg | 38 | 29 | 60 | 24 | 190 | 310 | 630 |
| Mercury | mg/kg | <0.17 | <0.17 | <0.17 | <0.17 | 40 | 56 | 120 |
| Nickel | mg/kg | 30 | 30 | 29 | 33 | 180 | 180 | 230 |
| Selenium | mg/kg | <1 | <1 | <1 | <1 | 250 | 430 | 1100 |
| Zinc | mg/kg | 123 | 110 | 92 | 134 | 3700 | 40000 | 8100 |
| TPH total (>C6-C40) | mg/kg | 151 | 675 | 95 | 128 | 48000 | 64000 | |
| **Asbestos in Soil (inc. matrix)** | | | | | | | | |
| Asbestos in soil | | NAD | NAD | NAD | NAD | | | |
| Asbestos ACM - Suitable for Water Absorption Test? | | N/A | N/A | N/A | N/A | Non detected | | |
| **PAH-16MS** | | | | | | | | |
| Acenaphthene | mg/kg | 0.03 | 0.01 | <0.01 | <0.01 | 1100 | 6000 | |
| Acenaphthylene | mg/kg | 0.01 | 0.01 | <0.01 | <0.01 | 920 | 6000 | |
| Anthracene | mg/kg | 0.06 | 0.04 | <0.02 | <0.02 | 11000 | 37000 | |
| Benzo(a)anthracene | mg/kg | 0.32 | 0.24 | 0.09 | <0.04 | 13 | 15 | |
| Benzo(a)pyrene | mg/kg | 0.29 | 0.22 | 0.08 | <0.04 | 3 | 3.2 | |
| Benzo(b)fluoranthene | mg/kg | 0.47 | 0.37 | 0.15 | 0.08 | 3.7 | 4 | |
| Benzo(ghi)perylene | mg/kg | 0.18 | 0.14 | <0.05 | <0.05 | 350 | 360 | |
| Benzo(k)fluoranthene | mg/kg | 0.15 | 0.11 | <0.07 | <0.07 | 100 | 110 | |
| Chrysene | mg/kg | 0.35 | 0.27 | 0.12 | <0.06 | 27 | 32 | |
| Dibenzo(ah)anthracene | mg/kg | 0.05 | <0.04 | <0.04 | <0.04 | 0.3 | 0.32 | |
| Fluoranthene | mg/kg | 0.55 | 0.42 | 0.17 | <0.08 | 890 | 1600 | |
| Fluorene | mg/kg | 0.04 | 0.03 | 0.01 | 0.01 | 860 | 4500 | |
| Indeno(123-cd)pyrene | mg/kg | 0.19 | 0.15 | 0.06 | <0.03 | 41 | 46 | |
| Naphthalene | mg/kg | <0.03 | <0.03 | <0.03 | <0.03 | 13 | 13 | |
| Phenanthrene | mg/kg | 0.25 | 0.18 | 0.1 | 0.05 | 440 | 1500 | |
| Pyrene | mg/kg | 0.42 | 0.32 | 0.13 | <0.07 | 2000 | 3800 | |
| Total PAH-16MS | mg/kg | 3.36 | 2.51 | 0.91 | 0.14 | 17761 | 60984 | |

***Table 4. Cover System Test Results***

## 5.0 CONCLUSIONS

The Remediation Strategy called for the inclusion of a Ground Gas Barrier, to CS2 requirements, 600mm Cover System of “inert” soil and proof of water pipe installation.

The gas membrane was included in the appended substructure design and installed in accordance with that design.

Hand dug trial pits noted there to be nominally 600mm of inert imported soils in the soft landscaped areas, which were found to comply with the chemical limits required in the Remediation Strategy. A no dig barrier was identified. It is noted that the play areas within the fenced boundary are all artificial, with no chance of contact with any site soils.

All water pipes were found to have inert bedding.

Therefore, SGS can verify that the required remediation has been completed.

No continued monitoring is required.

This report should be submitted to the regulators in order to conclude the remediation process.

# APPENDIX A

## Drawings

Site Red Line

Hand Dug Pit Locations

# PROPOSED SITE PLAN & GROUND FLOOR PLAN

# HEOL JIWBILI, CWMAFAN, PORT TALBOT, SA12 9NR

## KEY:

### BOUNDARY TREATMENTS AND RAILINGS

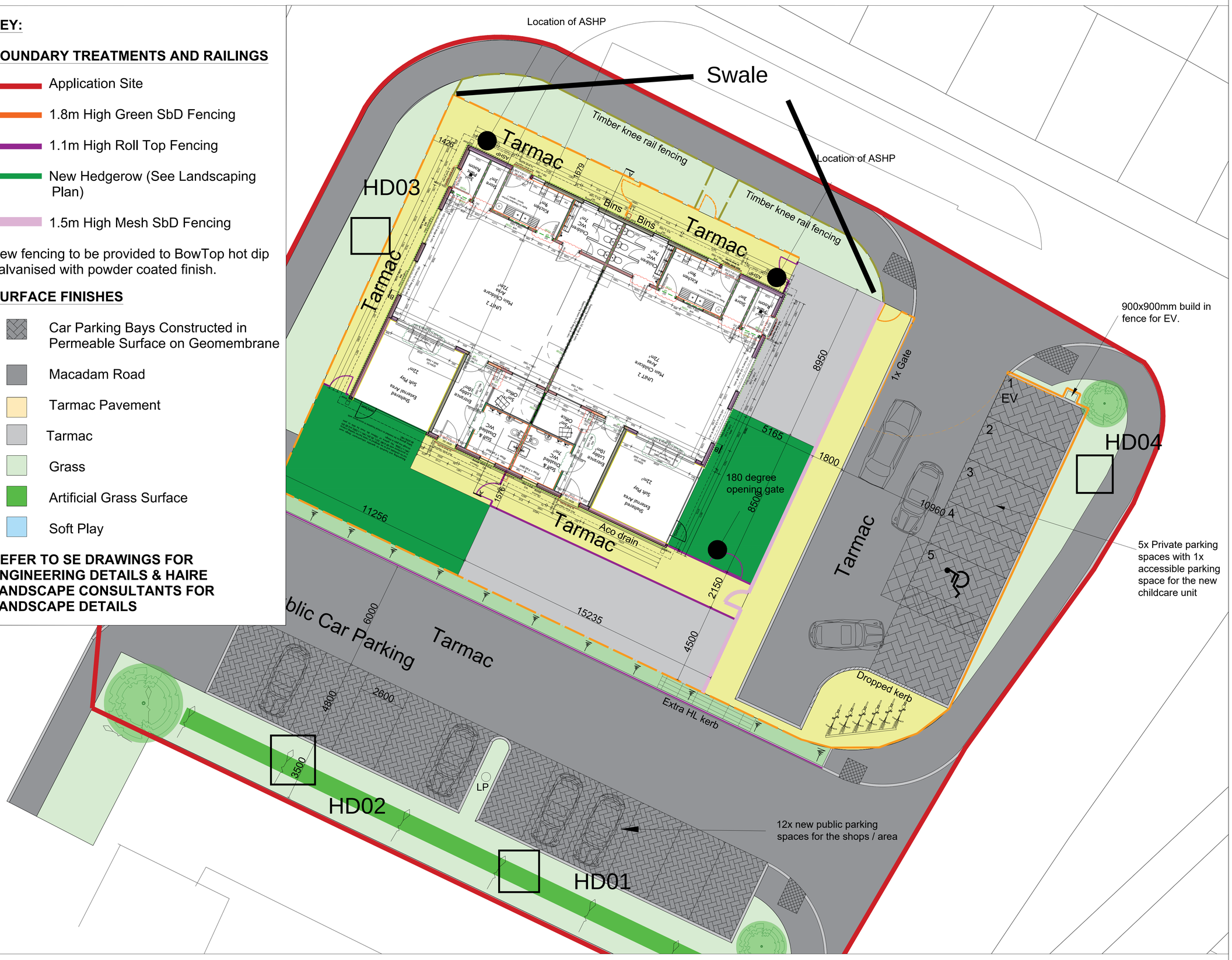
- Application Site
- 1.8m High Green SbD Fencing
- 1.1m High Roll Top Fencing
- New Hedgerow (See Landscaping Plan)
- 1.5m High Mesh SbD Fencing

New fencing to be provided to BowTop hot dip galvanised with powder coated finish.

### SURFACE FINISHES

- Car Parking Bays Constructed in Permeable Surface on Geomembrane
- Macadam Road
- Tarmac Pavement
- Tarmac
- Grass
- Artificial Grass Surface
- Soft Play

**REFER TO SE DRAWINGS FOR ENGINEERING DETAILS & HAIRE LANDSCAPE CONSULTANTS FOR LANDSCAPE DETAILS**




**Proposed Site Plan 1:100**

## Notes

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All dimensions are in millimeters unless otherwise noted.

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CDM notes are provided to assist the contractor in managing residual hazards identified during the design stage. Any such notes do not relieve the contractor of their duties and they must provide a safe system of work based on method statements, risk assessments, etc.

| Revision: | Description: | Date: |
|---|---|---|
| J | Alterations to Door Swing | 25.02.2025 |
| K | As built amendments | 13.08.2025 |

**Drawing Status:**

**BUILDING REGULATIONS**

CIAT CHARTERED PRACTICE

PRIME ARCHITECTURE

**Prime Architecture Limited, 3 Llandeilo Road, Cross Hands, Llanelli, SA14 6NA**

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**www.prime-arch.co.uk**

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**Client:**
T Richard Jones (Betws) Ltd

**Project Title:**
The Proposal of Childcare Units at Cwmafan, Port Talbot, SA12 9NR

**Drawing Title:**
Proposed Site Plan & GF Plan

| Scale: | Drawn: | Date: |
|---|---|---|
| 1:100 @ A1 | MZ | June 2024 |

| Job No: | Drawing No: | Rev: |
|---|---|---|
| 1144 | 03-01 | K |

# APPENDIX B

## Gas Barrier Verification

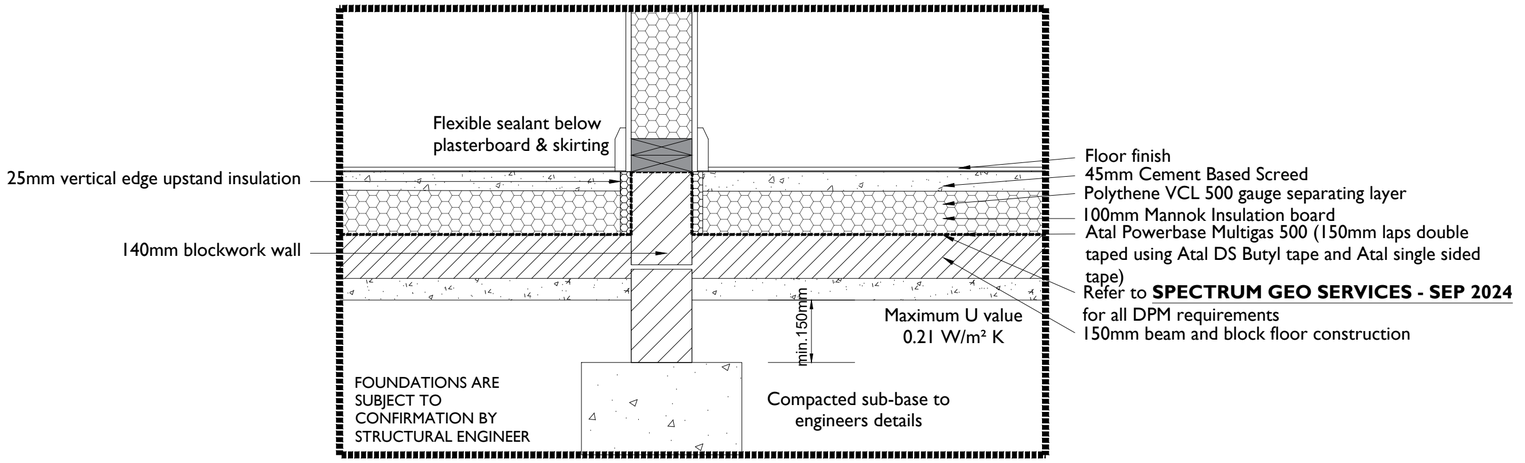
Gas Barrier Installation Photographs

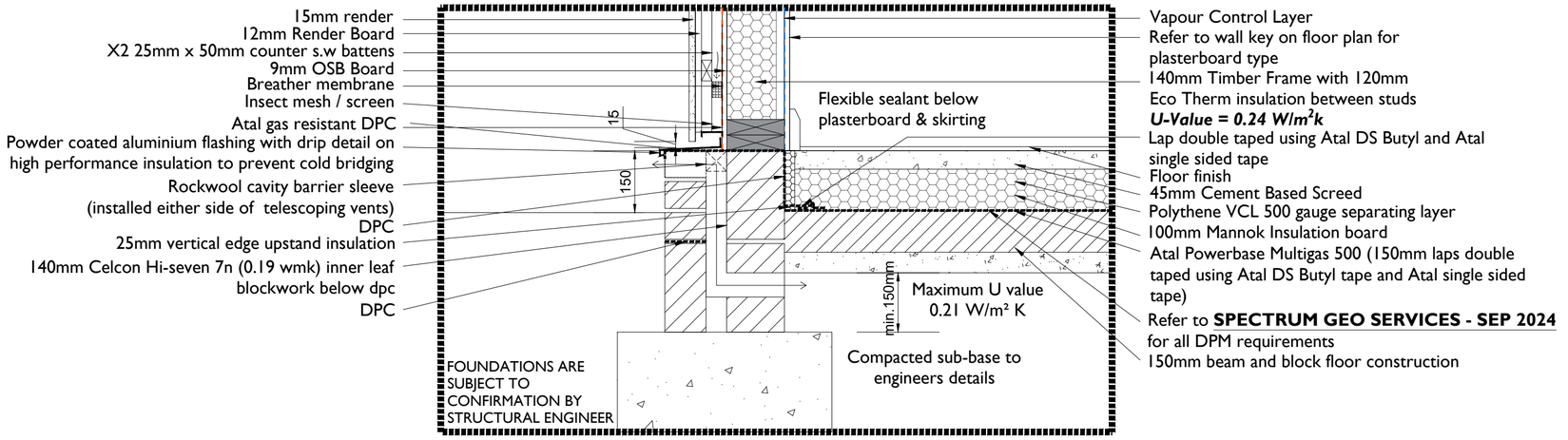
Design Details

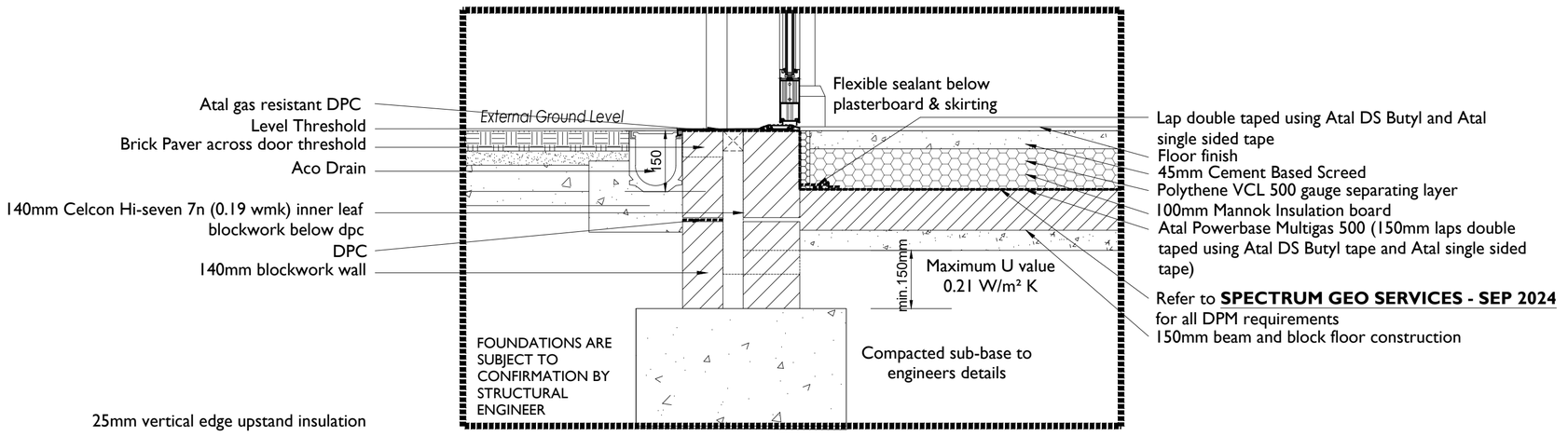
Gas Barrier installation Photographs

# PROPOSED DETAILS - GROUND FLOOR

# HEOL JIWBILI, CWMAFAN, PORT TALBOT, SA12 9NR




**Details 1:10**

**REFER TO SBEM SUMMERY AND REPORT FOR UVALUES AND GENERAL DETAILS**

**Refer to drawing 1144.05 for location of 15mm Soundbloc board finish to internal walls.**

**MEASUREMENTS**

All measurements to be confirmed on Site with any discrepancies reported to supervising surveyor for verification.

Please refer to Engineer's drawings, calcs and details for floor arrangements, steel locations, sizes post locations sizes of new floor joists etc..

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CDM notes are provided to assist the contractor in managing residual hazards identified during the design stage. Any such notes do not relieve the contractor of their duties and they must provide a safe system of work based on method statements, risk assessments, etc.

| Revision: | Description: | Date: |
|---|---|---|
| A | Client's requested amendments | 05.09.2024 |
| B | Plasterboard thickness changed to 15mm. | 10.09.2024 |
| C | Insect mesh added | 09.10.2024 |
| D | Further amendments | 28.10.2024 |
| E | Alterations to Floor Build Up | 06.02.2025 |
| F | As built amendments | 13.08.2025 |

**Drawing Status:**

**BUILDING REGULATIONS**

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**Client:**
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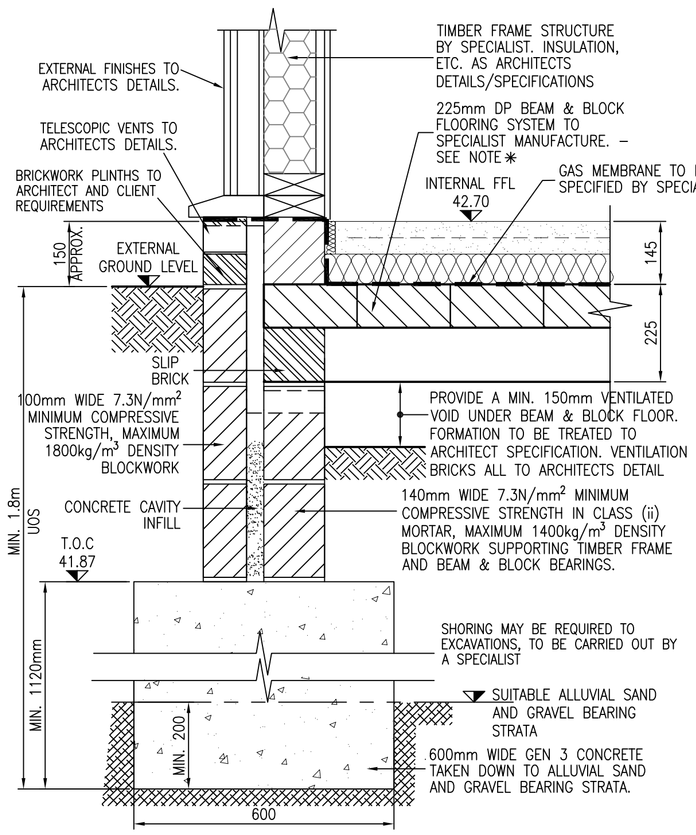
**Project Title:**
The Proposal of Childcare Units at Cwmafan, Port Talbot, SA12 9NR

**Drawing Title:**
Proposed Details - Ground Floor

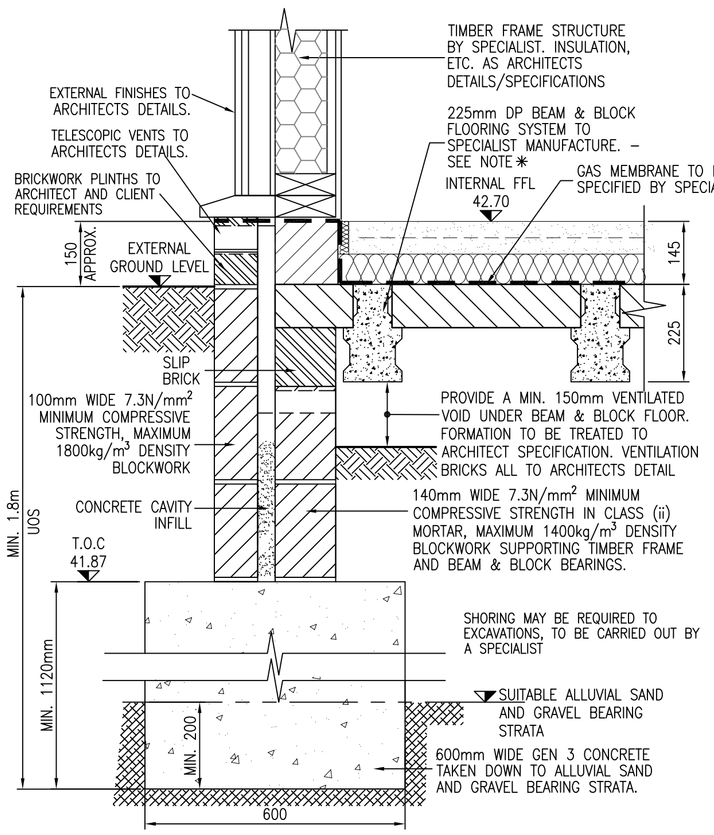
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| Job No: | Drawing No: | Rev: |
|---|---|---|
| 1144 | 10 | F |

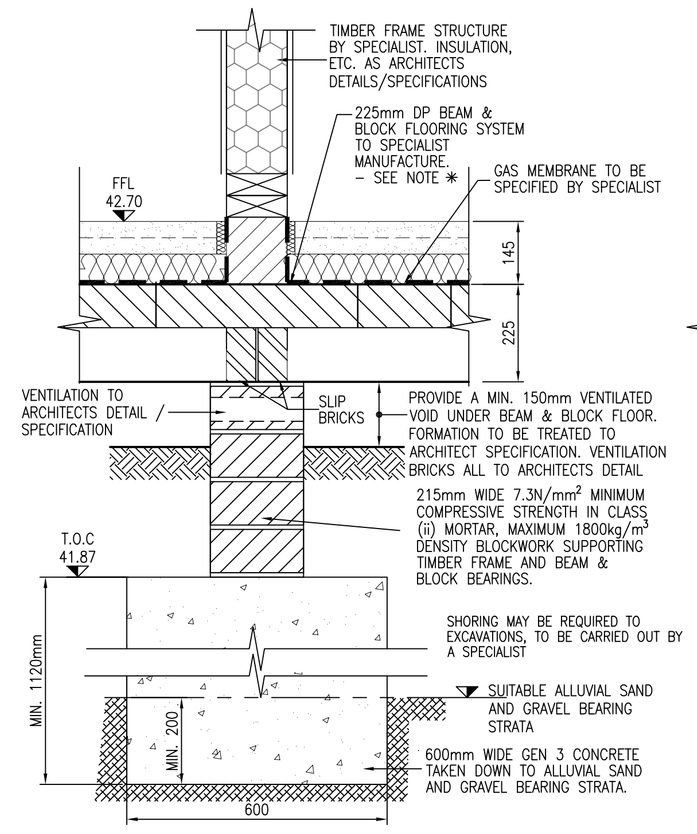
DO NOT SCALE



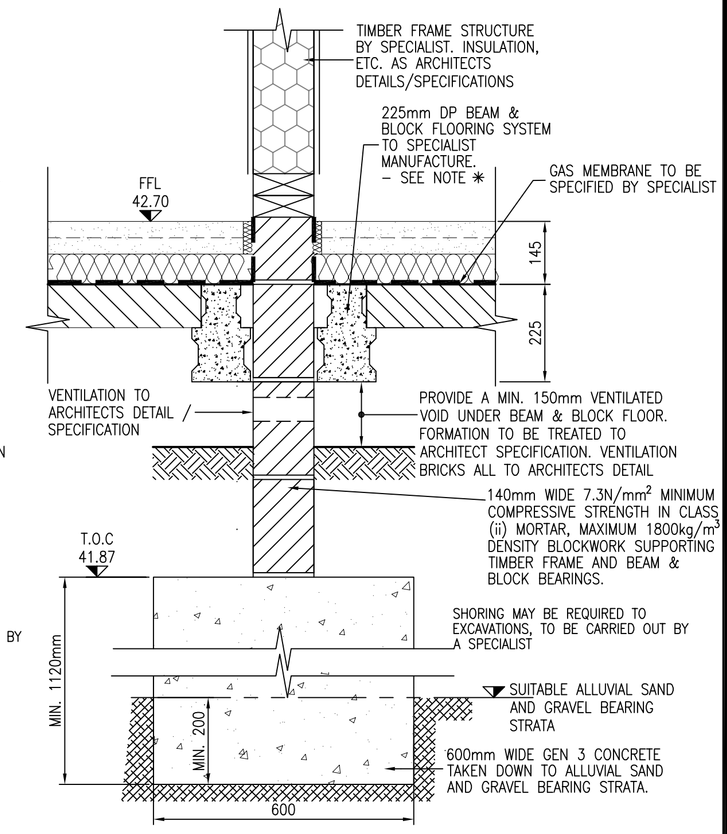

TYPICAL SECTION A–A
SCALE 1:10



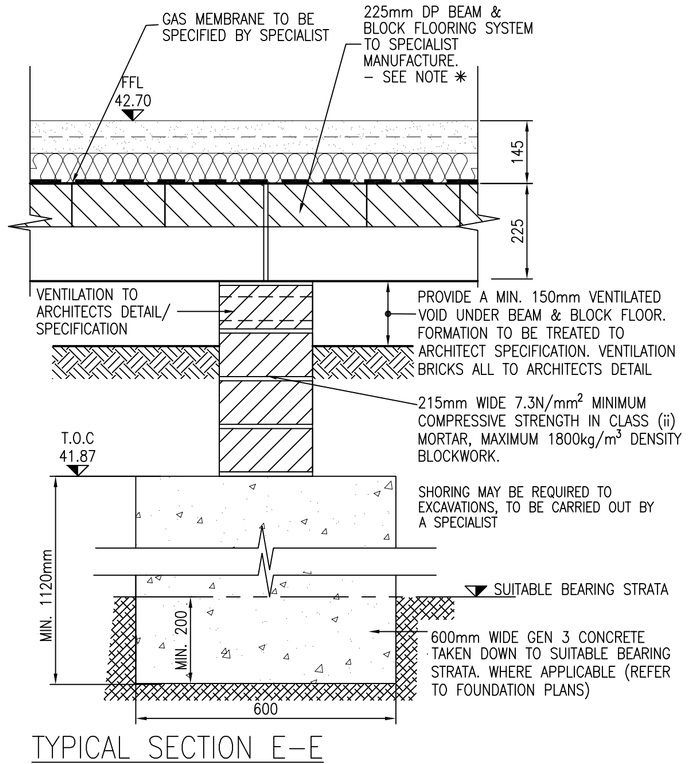

TYPICAL SECTION B–B
SCALE 1:10




TYPICAL SECTION C–C
SCALE 1:10




TYPICAL SECTION D–D
SCALE 1:10




TYPICAL SECTION E–E
SCALE 1:10

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| REV. | DESCRIPTION | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| P01 | INITIAL ISSUE FOR COMMENT/APPROVAL | ID | ADSW | 29.10.24 |

DRAWING STATUS:
PRELIMINARY


Roger Casey Associates
Consulting Civil & Structural Engineers

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E: office@rca-eng.co.uk
W: www.rca-eng.co.uk


CLIENT: TRJ

ARCHITECT:
PRIME ARCITECTURE

PROJECT:
NEW CHILD CARE UNIT,
WAUN WEN, CWMAFAN
NEATH, PORT TALBOT SA12 9TB

DRAWING TITLE:
FOUNDATION DETAILS

| | | | | | |
|---|---|---|---|---|---|
| ORIGINAL DRAWING A1 | DRAWN BY: RE | DESIGN BY: AH | CHECKED BY: ADSW | DATE: OCT '24 | SCALE: 1:50 / 1:10 |
| © Roger Casey Associates Limited 2024 | | | | | |
| RCA PROJECT REFERENCE No.: 21713 | DRAWING No.: 21713-RCA-00-ZZ-DR-S-110 | | | | REVISION: P1 |


29/10/2024 11:01:36
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RCA Document Reference: RCA A1 Landscape Version 1

atal uk.com
Structural Waterproofing Systems

# Picklist

**Picklist# scott parnell 16/1/25**

**Atal UK**
Unit 27, Tafarnaubach Industrial Estate
Tarfanaubach Industrial Estate
Tredegar NP22 3AA
United Kingdom
VAT 140564924

| Picklist Date | Status | Warehouse | Assignee | TOTAL QTY |
|---|---|---|---|---|
| 16/01/2025 | Completed | Atal Cyf Materials | Martin | 8.00 |

| # | ITEM & DESCRIPTION | ORDER # | STATUS | QUANTITY TO PICK | QUANTITY PICKED | QUANTITY REMAINING |
|---|---|---|---|---|---|---|
| 1 | Atal 600mm Gas Resistant DPC<br>SKU : atal0412<br>600mm x 20m | PO NH207145 | Completed | 4.00 Rolls | 4.00 Rolls | 0.00 Rolls |
| 2 | Atal Overlap Tape (Grey Cloth Tape)<br>SKU : atal0402<br>75mm x 50m | PO NH207145 | Completed | 4.00 Rolls | 4.00 Rolls | 0.00 Rolls |

# Invoice

657096HD

Page : 1/1

Scott Parnell Ltd.

Unit 10
Hirwaun Industrial Estate
Aberdare
CF44 9UP

Invoice Date : 19/5/2025
Due Date : 30/6/2025

Originator : Neil Hughes
Order No.: 532995 Our Ref : Neil Hughes
Order Date : 19/5/2025 Delivery :

Customer No. 1568

Invoice Address

T Richard Jones (Betws) Ltd
Betws Industrial Park
Foundry Road
Ammanford
Carmarthenshire
SA18 2LS

Delivery Address

T Richard Jones (Betws) Ltd
CUSTOMER TO COLLECT FROM
ATAL

NP22 4EE

Customer Phone: 01269 591103

Customer Order Number: 2455/18

| Item | Qty | | Description | Price | Disc% | Total £ |
|---|---|---|---|---|---|---|
| 309389/3 | 1 | EA | Atal Powerbase Multi Gas 500 | 486.85 | | 486.85 |
| | | | 2m x 50m - 100sqm per roll | | | |
| 332958/1 | 2 | EA | Atal DS Butyl Tape 1.5mm 50mm x 10m | 9.95 | | 19.90 |
| 332958/2 | 1 | EA | Atal Overlap Tape Black (New) 75mm x 20m | 30.74 | | 30.74 |

Comments :
Atal Cyf - ATAL5524

| | |
|---|---|
| Net: | 537.49 |
| VAT (20%): | 107.50 |
| To Pay £ | 644.99 |

Attn: Andrew Beckett

Payment Terms : 30 Days End of next month

VAT Reg. No. 140 1949 32 Company No. 08105082

For accounts queries please call tel no: 01376 532280
or Email: salesledger@scottparnell.com

Bank Details:-

Bank : HSBC Plc Account Name: Scott Parnell Ltd Sort Code: 40-61-35 / Account No. 03004316

Reservation of title - Per our terms & conditions of sale, all goods supplied and invoiced shall remain the property of the seller until cleared funds have been received in full.

# Purchase Order

Buyer: ANDREW BECKETT
Tel: 01269 591103
Fax: 01269 596207
E-Mail: enquiries@trichardjones.co.uk

| ORDER NUMBER | PAGE |
|---|---|
| 2455/18 | 1 of 1 |

**** Amendment ** 18-09-25**

**SUPPLIER**

SCOTT PARNELL LTD
UNIT 10
HIRWAUN INDUSTRIAL ESTATE
HIRWAUN
ABERDARE
CF44 9UP
Phone:
Fax:
Contact:

**DELIVER TO**

Child Care Units - Blaendulais & Cwmavon
PRE CONSTRUCTION WORKS
Child Care Units - Blaendulais & Cwmavon
c/o Neath & Port Talbot Council
Port Talbot

| ORDER DATE | SUPPLIER ACCOUNT | CONTRACT TITLE | DELIVERY INSTRUCTIONS |
|---|---|---|---|
| 19-12-24 | S256 | Child Care Units - Blaendulais & Cwmavon | DELIVER ON 6-01-25 |

| SPECIAL INSTRUCTIONS | SITE CONTACT | BUYER |
|---|---|---|
| | Rob Collard | AB - ANDREW BECKETT |

| LINE | MAT CODE | QTY | UNIT | DESCRIPTION | UNIT PRICE | AMOUNT |
|---|---|---|---|---|---|---|
| 0010 | RBM300 | 6.000 | Each | Atal Powerbase Multi Gas 500 2m x 50m - 100sqm per roll | 486.8500 | 2,921.10 |
| 0020 | RBM305 | 44.000 | Each | Atal DS Butyl Tape 1.5mm 50mm x 10m | 9.4900 | 417.56 |
| 0030 | RBM307 | 36.000 | Each | Atal Overlap Tape (Black Butyl Single Sided) 75mm x 20m | 29.3200 | 1,055.52 |
| 0040 | RBM334 | 2.000 | Each | Atal Premsil GMA 1.05m x 28.60m - 30sqm per roll | 362.5600 | 725.12 |
| 0050 | RBM334 | 2.000 | Each | Atal Premsil Primer LT 5ltr | 60.3000 | 120.60 |
| 0060 | CAR997 | 1.000 | Each | Carriage | 42.5000 | 42.50 |
| 0070 | RBM334 | 4.000 | Each | Atal 600mm Gas Resistant DPC 600mm x 20m (0412) | 85.7400 | 342.96 |
| 0080 | RBM334 | 4.000 | Each | Atal Overlap Tape (Grey Cloth Tape) (6101) | 15.6700 | 62.68 |
| 0090 | CAR997 | 1.000 | Each | Carriage | 45.0000 | 45.00 |

**PLEASE QUOTE OUR ORDER No. ON ALL CORRESPONDENCE**

***TOTAL £5,733.04***

**DIRECT ALL INVOICES & CORRESPONDENCE TO**

T. Richard Jones (Betws) Ltd.
Betws Industrial Park
Foundry Road
Ammanford
CARMARTHENSHIRE SA18 2LS

VAT Reg: 122412425

atal uk.com
Structural Waterproofing Systems

# ACKNOWLEDGMENT

Atal UK
Unit 27, Tafarnaubach Industrial Estate
Tarfanaubach Industrial Estate
Tredegar NP22 3AA
United Kingdom
VAT 140564924

Ship To
Scott Parnell Ltd
PICKED UP

Sales Order# : PO NH 219880
Order Date : 19/05/2025
Total Qty : 2.00

| # | Item & Description | Qty |
|---|---|---|
| 1 | Atal Protech GM Super (2m x 50m)<br>SKU : atal1602<br>2m x 50m<br>Tape required per roll:<br>- 6 DS Butyl tape<br>- 3 Overlap tape (Black) | 1.00 |
| 2 | Carriage<br>SKU : CARR<br>PICKED UP | 1.00 |

Thank you for your order. Have a great day

2x D/S

1x S/S.

2455/18.

GOODS RECEIVED NOTE

Purchase Order No: NH219880 2455/18

Supplier: ATAL CYF

Delivery Note No:

Date Goods Received: 19/5/18

Cost Centre | Account Code | Job Code

Charging Details:

Full Order Delivery ☐ Part Order Delivery ☐ Delivery Note Attached ☐

Comments:

1X ATAL PROTECH 9M SUPER

2X D/S

1X S/S

Signed: Dated:

Finance Office Use

Date of CRN:

CRN Number:

Signed:






SterlingOSB Zero
Strength you can build on


Sterling OSB Zero
UNILIN



# APPENDIX C

## Cover System Verification

| | |
|---|---|
| Hand Dug Pit Logs | HD01 to 04 |
| Hand Dug Pit Photographs | |
| Laboratory Test Results | |

# Trial Pit Log

| | | |
|---|---|---|
| Project Name: Cwmafon Verification | Client: TRJ | Date: 21/11/2025 |
| Location: Cwmafan | Contractor: SGS | |
| Project No. : 25056 | Crew Name: RHG | Equipment: Hand Dug |

| Location Number | Location Type | Level | Logged By | Scale | Page Number |
|---|---|---|---|---|---|
| HD01 | TP | | RHG | 1:25 | Sheet 1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
|---|---|---|---|---|---|---|---|---|
| | | Depth (m) | Type | Results | | | | |
| | | 0.00 - 0.60 | ES | | | | | MADE GROUND. Soft dark brown silty sandy CLAY, with much chipped bark. |
| | | | | | 0.60 | | | *.....0.60m, white no dig geotextile.* |
| | | | | | | | | End of Borehole at 0.600m |

| Dimensions | | Trench Support and Comment | | | Pumping Data | | |
|---|---|---|---|---|---|---|---|
| Pit Length | Pit Width | Pit Stability | Shoring Used | Remarks | Date | Rate | Remarks |
| 0.60 | 0.60 | | | | | | |

Remarks

Verification Pit.

# Trial Pit Log

| | | |
|---|---|---|
| Project Name: Cwmafon Verification | Client: TRJ | Date: 21/11/2025 |
| Location: Cwmafan | Contractor: SGS | |
| Project No. : 25056 | Crew Name: RHG | Equipment: Hand Dug |

| Location Number | Location Type | Level | Logged By | Scale | Page Number |
|---|---|---|---|---|---|
| HD02 | TP | | RHG | 1:25 | Sheet 1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
|---|---|---|---|---|---|---|---|---|
| | | Depth (m) | Type | Results | | | | |
| | | 0.00 - 0.60 | ES | | | | | MADE GROUND. Soft dark brown silty sandy CLAY, with much chipped bark. |
| | | | | | 0.60 | | | *.....0.60m, white no dig geotextile.* |
| | | | | | | | | End of Borehole at 0.600m |

| Dimensions | | Trench Support and Comment | | | Pumping Data | | |
|---|---|---|---|---|---|---|---|
| Pit Length | Pit Width | Pit Stability | Shoring Used | Remarks | Date | Rate | Remarks |
| 0.60 | 0.60 | | | | | | |

Remarks

Verification Pit.

# Trial Pit Log

| | | |
|---|---|---|
| Project Name: Cwmafon Verification | Client: TRJ | Date: 21/11/2025 |
| Location: Cwmafan | Contractor: SGS | |
| Project No. : 25056 | Crew Name: RHG | Equipment: Hand Dug |

| Location Number | Location Type | Level | Logged By | Scale | Page Number |
|---|---|---|---|---|---|
| HD03 | TP | | RHG | 1:25 | Sheet 1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
|---|---|---|---|---|---|---|---|---|
| | | Depth (m) | Type | Results | | | | |
| | | 0.00 - 0.60 | ES | | | | | MADE GROUND. Soft dark brown silty sandy CLAY, with much chipped bark. |
| | | | | | 0.60 | | | *.....0.60m, white no dig geotextile.* |
| | | | | | | | | End of Borehole at 0.600m |

| Dimensions | | Trench Support and Comment | | | Pumping Data | | |
|---|---|---|---|---|---|---|---|
| Pit Length | Pit Width | Pit Stability | Shoring Used | Remarks | Date | Rate | Remarks |
| 0.60 | 0.60 | | | | | | |

Remarks

Verification Pit.

# Trial Pit Log

| | | |
|---|---|---|
| Project Name: Cwmafon Verification | Client: TRJ | Date: 21/11/2025 |
| Location: Cwmafan | Contractor: SGS | |
| Project No. : 25056 | Crew Name: RHG | Equipment: Hand Dug |

| Location Number | Location Type | Level | Logged By | Scale | Page Number |
|---|---|---|---|---|---|
| HD04 | TP | | RHG | 1:25 | Sheet 1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing | | | Depth (m) | Level (m) | Legend | Stratum Description |
|---|---|---|---|---|---|---|---|---|
| | | Depth (m) | Type | Results | | | | |
| | | 0.00 - 0.60 | ES | | | | | MADE GROUND. Soft dark brown silty sandy CLAY, with much chipped bark. |
| | | | | | 0.60 | | | *.....0.60m, white no dig geotextile.* |
| | | | | | | | | End of Borehole at 0.600m |

| Dimensions | | Trench Support and Comment | | | Pumping Data | | |
|---|---|---|---|---|---|---|---|
| Pit Length | Pit Width | Pit Stability | Shoring Used | Remarks | Date | Rate | Remarks |
| 0.60 | 0.60 | | | | | | |

Remarks

Verification Pit.


HP01


HP02


HP03


HP04

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

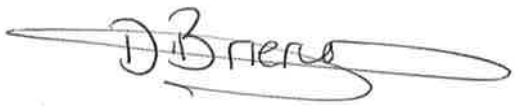
# FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 25/13225
**Issue Number:** 1 **Date:** 28 November, 2025

**Client:**
Spectrum Geo Services
Foxglove Cottage
Cwm Risca Lane
Tondu
Wales
CF32 0EH

**Project Manager:** Rob Griffiths
**Project Name:** Cwmavon Veri
**Project Ref:** 25056
**Order No:** 25056/01
**Date Samples Received:** 18/11/25
**Date Instructions Received:** 18/11/25
**Date Analysis Completed:** 28/11/25

**Approved by:**



Danielle Brierley
Client Services Supervisor

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME
UKAS TESTING 1247

**Envirolab Job Number: 25/13225**

**Client Project Name: Cwmavon Veri**

**Client Project Ref: 25056**

| Lab Sample ID | 25/13225/1 | 25/13225/2 | 25/13225/3 | 25/13225/4 | | | | Units | Limit of Detection | Method ref |
|---|---|---|---|---|---|---|---|---|---|---|
| Client Sample No | | | | | | | | | | |
| Client Sample ID | HP01 | HP02 | HP03 | HP04 | | | | | | |
| Depth to Top | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| Depth To Bottom | 0.60 | 0.60 | 0.60 | 0.60 | | | | | | |
| Date Sampled | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | | | | | | |
| Sample Type | SOIL - ES | SOIL - ES | SOIL - ES | SOIL - ES | | | | | | |
| Sample Matrix Code | 4AE | 4AE | 4AE | 4AE | | | | | | |
| % Stones >10mm$_A$ | <0.1 | <0.1 | <0.1 | <0.1 | | | | % w/w | 0.1 | A-T-044 |
| pH$_D$$^{M\#}$ | 8.26 | 8.42 | 8.10 | 8.10 | | | | pH | 0.01 | A-T-031s |
| Sulphate (water sol 2:1)$_D$$^{M\#}$ | <0.01 | <0.01 | <0.01 | 0.01 | | | | g/l | 0.01 | A-T-026s |
| Organic Matter$_D$$^{M\#}$ | 7.50 | 7.02 | 3.49 | 5.64 | | | | % w/w | 0.14 | A-T-032s |
| Arsenic$_D$$^{M\#}$ | 16 | 10 | 7 | 8 | | | | mg/kg | 1 | A-T-024s |
| Boron (water soluble)$_D$$^{M\#}$ | <1.0 | <1.0 | <1.0 | <1.0 | | | | mg/kg | 1 | A-T-027s |
| Cadmium$_D$ | <1.0 | <1.0 | <1.0 | <1.0 | | | | mg/kg | 1 | A-T-024s |
| Copper$_D$$^{M\#}$ | 33 | 39 | 21 | 29 | | | | mg/kg | 1 | A-T-024s |
| Chromium$_D$$^{M\#}$ | 14 | 24 | 14 | 15 | | | | mg/kg | 1 | A-T-024s |
| Chromium (hexavalent)$_D$ | <1 | <1 | <1 | <1 | | | | mg/kg | 1 | A-T-040s |
| Lead$_D$$^{M\#}$ | 38 | 29 | 60 | 24 | | | | mg/kg | 1 | A-T-024s |
| Mercury$_D$ | <0.17 | <0.17 | <0.17 | <0.17 | | | | mg/kg | 0.17 | A-T-024s |
| Nickel$_D$$^{M\#}$ | 30 | 30 | 29 | 33 | | | | mg/kg | 1 | A-T-024s |
| Selenium$_D$$^{M\#}$ | <1 | <1 | <1 | <1 | | | | mg/kg | 1 | A-T-024s |
| Zinc$_D$$^{M\#}$ | 123 | 110 | 92 | 134 | | | | mg/kg | 1 | A-T-024s |
| TPH total (>C6-C40)$_A$$^{M\#}$ | 151 | 675 | 95 | 128 | | | | mg/kg | 10 | A-T-007s |

Envirolab Job Number: 25/13225

Client Project Name: Cwmavon Veri

Client Project Ref: 25056

| Lab Sample ID | 25/13225/1 | 25/13225/2 | 25/13225/3 | 25/13225/4 | | | | Units | Limit of Detection | Method ref |
|---|---|---|---|---|---|---|---|---|---|---|
| Client Sample No | | | | | | | | | | |
| Client Sample ID | HP01 | HP02 | HP03 | HP04 | | | | | | |
| Depth to Top | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| Depth To Bottom | 0.60 | 0.60 | 0.60 | 0.60 | | | | | | |
| Date Sampled | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | | | | | | |
| Sample Type | SOIL - ES | SOIL - ES | SOIL - ES | SOIL - ES | | | | | | |
| Sample Matrix Code | 4AE | 4AE | 4AE | 4AE | | | | | | |
| **Asbestos in Soil (inc. matrix)** | | | | | | | | | | |
| Asbestos in soil$_{D}^{\#}$ | NAD | NAD | NAD | NAD | | | | | | A-T-045 |
| Asbestos Matrix (visual)$_{D}$ | - | - | - | - | | | | | | A-T-045 |
| Asbestos Matrix (microscope)$_{D}$ | - | - | - | - | | | | | | A-T-045 |
| Asbestos ACM - Suitable for Water Absorption Test?$_{D}$ | N/A | N/A | N/A | N/A | | | | | | A-T-045 |

**Envirolab Job Number: 25/13225**

**Client Project Name: Cwmavon Veri**

**Client Project Ref: 25056**

| Lab Sample ID | 25/13225/1 | 25/13225/2 | 25/13225/3 | 25/13225/4 | | | | Units | Limit of Detection | Method ref |
|---|---|---|---|---|---|---|---|---|---|---|
| Client Sample No | | | | | | | | | | |
| Client Sample ID | HP01 | HP02 | HP03 | HP04 | | | | | | |
| Depth to Top | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| Depth To Bottom | 0.60 | 0.60 | 0.60 | 0.60 | | | | | | |
| Date Sampled | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | 13-Nov-25 | | | | | | |
| Sample Type | SOIL - ES | SOIL - ES | SOIL - ES | SOIL - ES | | | | | | |
| Sample Matrix Code | 4AE | 4AE | 4AE | 4AE | | | | | | |
| PAH-16MS | | | | | | | | | | |
| Acenaphthene$_A^{M\#}$ | 0.03 | 0.01 | <0.01 | <0.01 | | | | mg/kg | 0.01 | A-T-019s |
| Acenaphthylene$_A^{M\#}$ | 0.01 | 0.01 | <0.01 | <0.01 | | | | mg/kg | 0.01 | A-T-019s |
| Anthracene$_A^{M\#}$ | 0.06 | 0.04 | <0.02 | <0.02 | | | | mg/kg | 0.02 | A-T-019s |
| Benzo(a)anthracene$_A^{M\#}$ | 0.32 | 0.24 | 0.09 | <0.04 | | | | mg/kg | 0.04 | A-T-019s |
| Benzo(a)pyrene$_A^{M\#}$ | 0.29 | 0.22 | 0.08 | <0.04 | | | | mg/kg | 0.04 | A-T-019s |
| Benzo(b)fluoranthene$_A^{M\#}$ | 0.47 | 0.37 | 0.15 | 0.08 | | | | mg/kg | 0.05 | A-T-019s |
| Benzo(ghi)perylene$_A^{M\#}$ | 0.18 | 0.14 | <0.05 | <0.05 | | | | mg/kg | 0.05 | A-T-019s |
| Benzo(k)fluoranthene$_A^{M\#}$ | 0.15 | 0.11 | <0.07 | <0.07 | | | | mg/kg | 0.07 | A-T-019s |
| Chrysene$_A^{M\#}$ | 0.35 | 0.27 | 0.12 | <0.06 | | | | mg/kg | 0.06 | A-T-019s |
| Dibenzo(ah)anthracene$_A^{M\#}$ | 0.05 | <0.04 | <0.04 | <0.04 | | | | mg/kg | 0.04 | A-T-019s |
| Fluoranthene$_A^{M\#}$ | 0.55 | 0.42 | 0.17 | <0.08 | | | | mg/kg | 0.08 | A-T-019s |
| Fluorene$_A^{M\#}$ | 0.04 | 0.03 | 0.01 | 0.01 | | | | mg/kg | 0.01 | A-T-019s |
| Indeno(123-cd)pyrene$_A^{M\#}$ | 0.19 | 0.15 | 0.06 | <0.03 | | | | mg/kg | 0.03 | A-T-019s |
| Naphthalene $_A^{M\#}$ | <0.03 | <0.03 | <0.03 | <0.03 | | | | mg/kg | 0.03 | A-T-019s |
| Phenanthrene$_A^{M\#}$ | 0.25 | 0.18 | 0.10 | 0.05 | | | | mg/kg | 0.03 | A-T-019s |
| Pyrene$_A^{M\#}$ | 0.42 | 0.32 | 0.13 | <0.07 | | | | mg/kg | 0.07 | A-T-019s |
| Total PAH-16MS$_A^{M\#}$ | 3.36 | 2.51 | 0.91 | 0.14 | | | | mg/kg | 0.01 | A-T-019s |

## Report Notes

**General**

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

**Key**

| | |
|---|---|
| Superscript "#" | Accredited to ISO 17025 |
| Superscript "M" | Accredited to MCertS |
| Superscript "U" | Individual result not accredited |
| None of the above symbols | Analysis unaccredited |
| Subscript "A" | Analysis performed on as-received Sample |
| Subscript "D" | Analysis performed on the dried sample, crushed to pass 2mm sieve. |
| Subscript "D" on Asbestos | Analysis performed on a dried aliquot of sample provided. |
| Subscript "^" | Analysis has dependant options against results. Details appear in the comments of your Sample receipt |
| IS | Insufficient Sample for analysis |
| US | Unsuitable Sample for analysis |
| NDP | No Determination Possible |
| NAD | No Asbestos Detected |
| Trace | Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh. |
| N/A | Not applicable |

**Asbestos**

**Identification:** Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

**Assigned Matrix Codes**

| | | | | | |
|---|---|---|---|---|---|
| 1 | SAND | 6 | CLAY/LOAM | A | Contains Stones |
| 2 | LOAM | 7 | OTHER | B | Contains Construction Rubble |
| 3 | CLAY | 8 | Asbestos Bulk (Only Asbestos ID accredited) | C | Contains visible hydrocarbons |
| 4 | LOAM/SAND | 9 | Incinerator Ash (some Metals accredited) | D | Contains glass / metal |
| 5 | SAND/CLAY | | | E | Contains roots / twigs |
| **Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.** | | | | | |

**Soil Chemical Analysis:**
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

**TPH by method A-T-007:**
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

**EPH CWG (method A-T-055) from TPH CWG:**
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

**Electrical Conductivity of water by method A-T-037:**
Results greater than 12900µS/cm @ $25^0$C / 11550µS/cm @ $20^0$C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

# Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

**Client:** Spectrum Geo Services, Foxglove Cottage, Cwm Risca Lane, Tondu, Wales, CF32 0EH

**Project:** Cwmavon Veri

**Clients Project No:** 25056

**Project No:** 25/13225

**Date Received:** 18/11/2025 (am)

**Cool Box Temperatures (°C):** 5.1

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

# Envirolab Analysis Dates

| Lab Sample ID | 25/13225/1 | 25/13225/2 | 25/13225/3 | 25/13225/4 |
|---|---|---|---|---|
| Client Sample No | | | | |
| Client Sample ID/Depth | HP01 0.00-0.60m | HP02 0.00-0.60m | HP03 0.00-0.60m | HP04 0.00-0.60m |
| Date Sampled | 13/11/25 | 13/11/25 | 13/11/25 | 13/11/25 |
| A-T-007s | 24/11/2025 | 24/11/2025 | 24/11/2025 | 24/11/2025 |
| A-T-019s | 24/11/2025 | 24/11/2025 | 24/11/2025 | 24/11/2025 |
| A-T-024s | 28/11/2025 | 28/11/2025 | 28/11/2025 | 28/11/2025 |
| A-T-026s | 24/11/2025 | 24/11/2025 | 24/11/2025 | 24/11/2025 |
| A-T-027s | 27/11/2025 | 27/11/2025 | 27/11/2025 | 27/11/2025 |
| A-T-031s | 23/11/2025 | 23/11/2025 | 23/11/2025 | 23/11/2025 |
| A-T-032s | 24/11/2025 | 24/11/2025 | 24/11/2025 | 24/11/2025 |
| A-T-040s | 24/11/2025 | 24/11/2025 | 24/11/2025 | 24/11/2025 |
| A-T-044 | 21/11/2025 | 21/11/2025 | 21/11/2025 | 21/11/2025 |
| A-T-045 | 19/11/2025 | 19/11/2025 | 19/11/2025 | 19/11/2025 |

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

**End of Report**

# APPENDIX D

## Water Supply Pipe Installation Photographs




CABLE




CAUTION
WATER