

**Town & Country Planning Act 1990
Section 78 Appeals**

Craig Yr Hesg Quarry

**Addendum Note
to Evidence of:**

**Katrina Early Hawkins
Smith Grant LLP**

DUST

On behalf of: Hanson UK

Planning Inspectorate Reference: APP/L6940/A/20/3265358 (Extension Appeal)

Planning Inspectorate Reference: APP/L6940/A/21/3282880 (S73 Appeal)

Local Authority Reference: 15/0666/10 (Extension Appeal)

Local Authority Reference: 21/0720/15 (S73 Appeal)

May 2022

Craig yr Hesg Quarry: Addendum Note on Dust Deposition Monitoring

Additional Results: April – May 2022

Dust monitoring data for the period 4th March 2021 - 7th April 2022 was provided to Amity Planning and Wardell Armstrong in SGP Report R2613E-R02. The data was referred to in my Proof on Dust and provided in detail and discussed in Appendix KEH5 (SGP Report R2613E-R01).

A round of results has now been received for the period April – May 2022 (for monitoring round 14). Laboratory certificates are attached in Appendix B and the results summarised below, along with the previous reported results.

This Note is provided as an addendum to the earlier reports and should be read in conjunction with those reports.

2021-2022 Results

The results for the period 4th March 2021 to 4th May 2022 are summarised in Tables 1 and 2 below.

Table 1: Summary of Dust Deposition Results – March 2021 to May 2022

Round	Dates	Dust Deposition Rate (mg/m ² /day)							
		D1	D2	D3	D4	D5 ¹	D6 / D6b ^{1,2}	D7	D8
1	09.03.21-08.04.21	15	253	62	54				
2	08.04.21-06.05.21	59	266	170	58				
3	06.05.21-03.06.21	61	224	77	166				
4	03.06.21-01.07.21	287	399	97	103				
5	01.07.21-29.07.21	98	375	102	384				
6	29.07.21-26.08.21	37	278	57	236				
7	26.08.21-23.09.21	40	225	82	231				
8	23.09.21-20.10.21	55	207	53	127				
9	20.10.21-02.12.21	35	181	71	43				
10	02.12.21-06.01.21	50	119	45	46				
11	06.01.22-08.02.22	34	149	27	38	136	62		
12	08.02.22-08.03.22	18	129	23	43	181	193		
13 ³	08-11.03.22- 07.04.22	37	276	64	111	327	301	101	66
14	07.04.22-04.05.22	58	75	50	54	176	124	69	59

1: Deployed on 6th January 2022

2: D6 relocated on 8th February 2022

3: D7 and D8 deployed on 11.03.22; all others changed over on 08.03.22

Table 2: Summary of Maximum %EAC Results – March 2021 to May 2022

Round	Dates	Maximum %EAC/day							
		D1	D2	D3	D4	D5 ¹	D6 / D6b ^{1,2}	D7	D8
1	09.03.21-08.04.21	0.1	0.4	0.1	0.3				
2	08.04.21-06.05.21	0.1	0.7 (SW)	0.2	0.3				
3	06.05.21-03.06.21	0.1	0.4	0.2	0.4				
4	03.06.21-01.07.21	0.4	0.6 (SW)	0.1	0.4				
5	01.07.21-29.07.21	0.1	0.6 (SW)	0.1	0.6 (SW)				
6	29.07.21-26.08.21	0.1	0.6 (SW)	0.1	0.5 (SW)				
7	26.08.21-23.09.21	0.0	0.3	0.1	0.3				
8	23.09.21-20.10.21	0.1	0.4	0.1	0.3				
9	20.10.21-02.12.21	0.1	0.3	0.1	0.1				
10	02.12.21-06.01.21	0.1	0.2	0.1	0.1				
11	06.01.22-08.02.22	0.1	0.2	0.1	0.2	0.2	0.1		
12	08.02.22-08.03.22	0.2	0.4	0.1	0.3	0.5 (SW)	0.2		
13 ³	08-11.03.22- 07.04.22	0.1	0.4	0.1	0.2	0.4	0.2	0.1	0.1
14	07.04.22-04.05.22	0.2	0.4	0.1	0.3	0.3	0.2	0.1	0.2

1: Deployed on 6th January 2022

2: D6 relocated on 8th February 2022

3: D7 and D8 deployed on 11.03.22; all others changed over on 08.03.22

Text in brackets refers to sector maximum %EAC reported in

Summary

The measured dust deposition rates for April-May 2022 (monitoring round 14) at all monitoring locations were well below the indicative threshold of 200 mg/m²/day referred to.

The dust deposition rates at the off-site locations, D7 and D8, were well below those reported at the near site boundary locations of D5 and D6b.

FIGURES

Figure 1a: 2021-2022 Dust Deposition Monitoring Locations

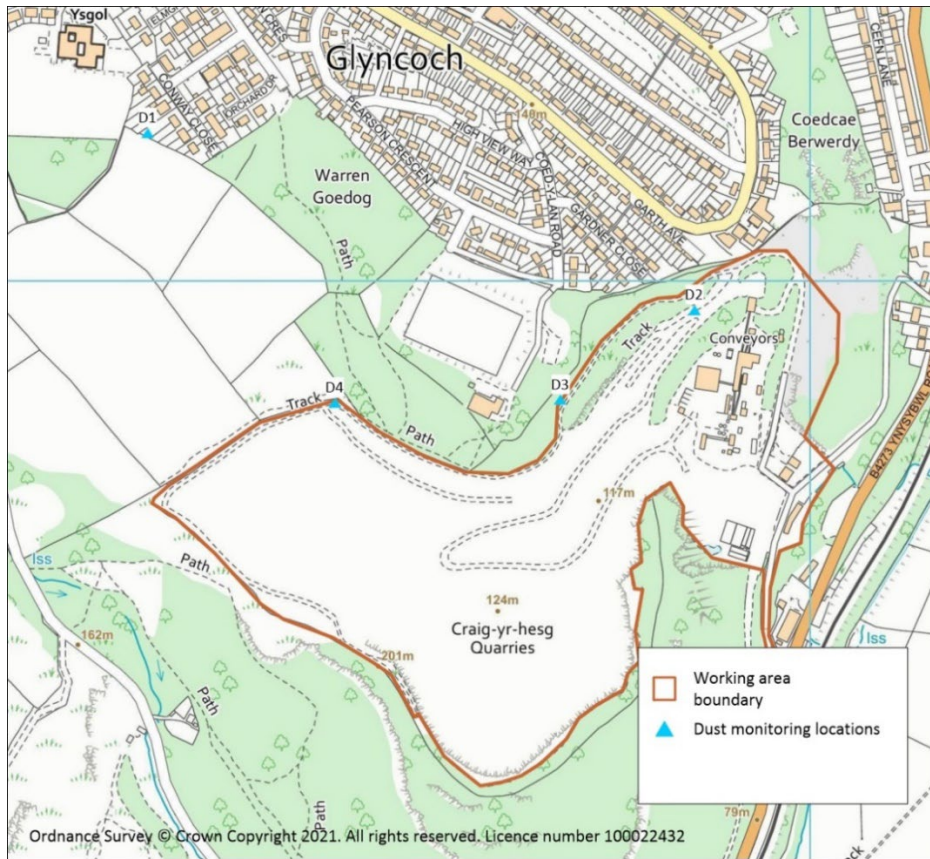


Figure 1b: 2021-2022 Dust Deposition Monitoring Locations

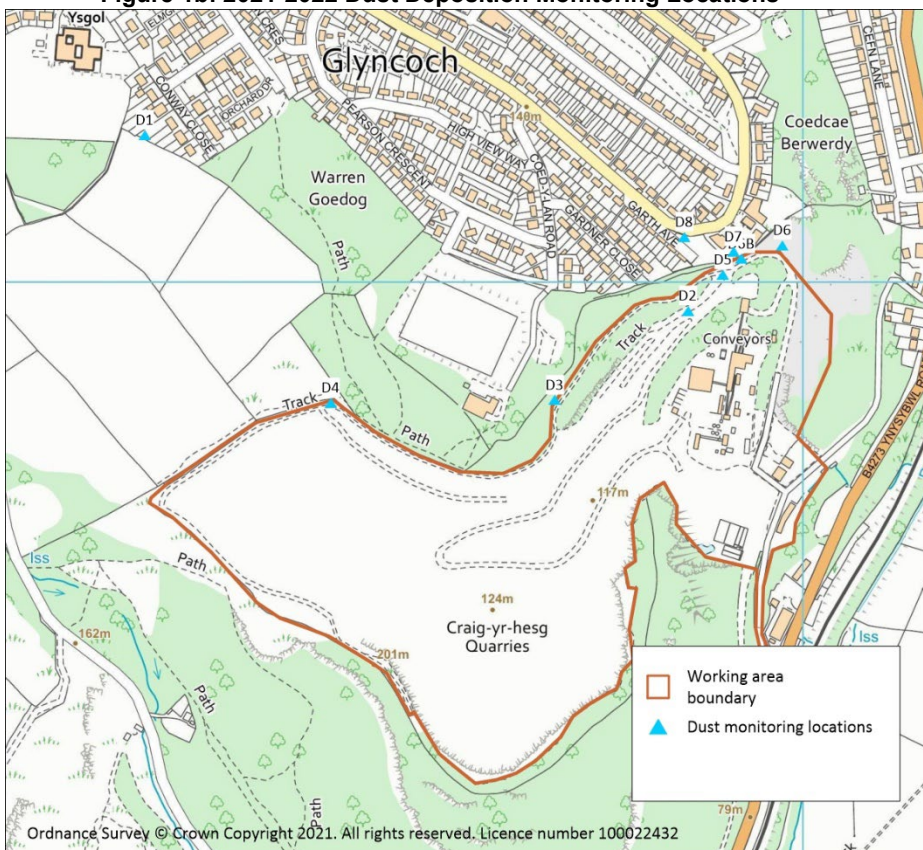


Figure 1c: 2021-2022 Dust Deposition Monitoring Locations

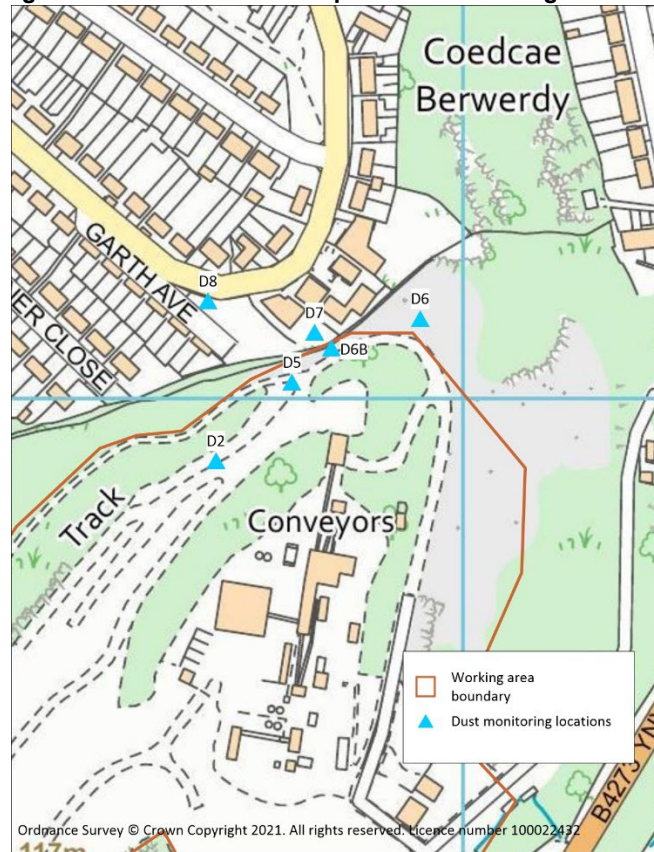
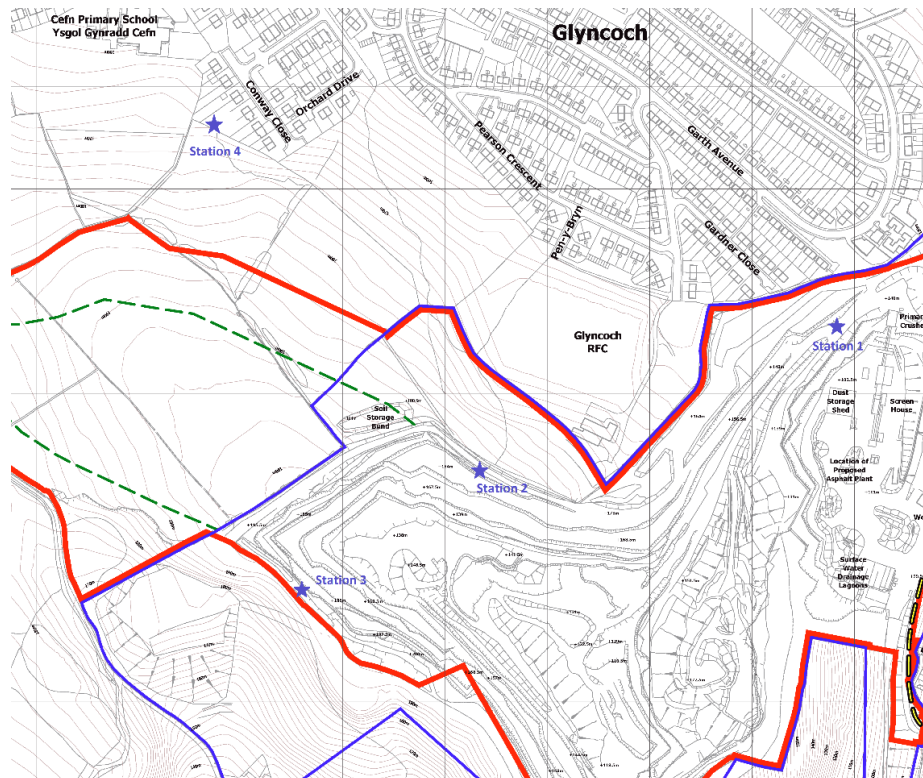


Figure 2: 2014 Dust Deposition Monitoring Locations



APPENDIX A:

**Photographic record:
2021-2022 Dust Monitoring Locations**

Photographic Record: 2021 Dust Monitoring Locations



Location D1: Rear garden of 26 Conway Close



Location D2: north of haul road to Primary Crusher feed hopper (located in a side area not currently subject to any haulage movements)



Location D3: quarry northern perimeter track



Location D4: quarry northern perimeter track

Photographic Record: Additional 2022 Dust Monitoring Locations



Location D5 North of Haul Road to Primary Crusher



Location D6b: North of Primary Crusher



Location D7: rear to Spar shop



Location D8: open land on Garth Avenue

APPENDIX B:
Laboratory Certificates



1015



SOCOTEC

OCCUPATIONAL HYGIENE AND ENVIRONMENTAL MONITORING LABORATORY

TEST REPORT

Site:

Craig-yr-Hesg, Pontypridd

Client:

Ms K Hawkins
Smith Grant LLP
Station House
Station Road
Ruabon
Wrexham
LL14 6DL

Job Number: 39805

Report Number: FD/ 20736

Report Date: 21/05/2022

Method N°. ENV/FD01: The determination of Fugitive Dust Based on BS 872: 2005

Method N°. ENV/FD03: The determination of pH and conductivity in fugitive dust samples.

Method N°. ENV/FD05: The determination of reflectance values using a smoke stain reflectometer

UKAS accredited tests are denoted by an asterisk(*)

SOCOTEC is not UKAS accredited for environmental dust gauge sampling. Results only apply to samples under test.

The dust samples will be retained at the laboratory for a period of 6 months in case extended analysis is required in future. Liquids associated with dust samples are not normally retained at the laboratory.

Report Comment:

Approved by:

.....
Helen Latham, Team Leader
Environmental Laboratory
Direct Dial: 01283 554486



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207550
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 1
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 62
 Deposition (mg.m⁻².d⁻¹) 58
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	0.7	litres	0.7	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	4.8	units	4.8	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	41	µS.cm ⁻¹	19.0	mg
Conductivity	41	µS.cm ⁻¹	18.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	98	% reflectance	0.1	%EAC.d ⁻¹
NE	98	% reflectance	0.1	%EAC.d ⁻¹
E	99	% reflectance	0.0	%EAC.d ⁻¹
SE	99	% reflectance	0.0	%EAC.d ⁻¹
S	97	% reflectance	0.1	%EAC.d ⁻¹
SW	95	% reflectance	0.2	%EAC.d ⁻¹
W	98	% reflectance	0.1	%EAC.d ⁻¹
NW	99	% reflectance	0.0	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207551
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 2
 Comment Foam Particle Trap found on the ground - not included
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 80
 Deposition (mg.m⁻².d⁻¹) 75
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	0.9	litres	0.9	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	6	units	6.0	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	28	µS.cm ⁻¹	17.0	mg
Conductivity	28	µS.cm ⁻¹	16.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	97	% reflectance	0.1	%EAC.d ⁻¹
NE	89	% reflectance	0.4	%EAC.d ⁻¹
E	95	% reflectance	0.2	%EAC.d ⁻¹
SE	97	% reflectance	0.1	%EAC.d ⁻¹
S	95	% reflectance	0.2	%EAC.d ⁻¹
SW	89	% reflectance	0.4	%EAC.d ⁻¹
W	93	% reflectance	0.3	%EAC.d ⁻¹
NW	95	% reflectance	0.2	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207552
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 3
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 54
 Deposition (mg.m⁻².d⁻¹) 50
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	0.9	litres	0.9	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	4.5	units	4.5	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	42	µS.cm ⁻¹	25.0	mg
Conductivity	42	µS.cm ⁻¹	24.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	98	% reflectance	0.1	%EAC.d ⁻¹
NE	99	% reflectance	0.0	%EAC.d ⁻¹
E	99	% reflectance	0.0	%EAC.d ⁻¹
SE	99	% reflectance	0.0	%EAC.d ⁻¹
S	99	% reflectance	0.0	%EAC.d ⁻¹
SW	96	% reflectance	0.1	%EAC.d ⁻¹
W	97	% reflectance	0.1	%EAC.d ⁻¹
NW	98	% reflectance	0.1	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207553
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 4
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 58
 Deposition (mg.m⁻².d⁻¹) 54
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	1	litres	1.0	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	5.3	units	5.3	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	50	µS.cm ⁻¹	34.0	mg
Conductivity	50	µS.cm ⁻¹	31.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	98	% reflectance	0.1	%EAC.d ⁻¹
NE	97	% reflectance	0.1	%EAC.d ⁻¹
E	93	% reflectance	0.3	%EAC.d ⁻¹
SE	94	% reflectance	0.2	%EAC.d ⁻¹
S	95	% reflectance	0.2	%EAC.d ⁻¹
SW	94	% reflectance	0.2	%EAC.d ⁻¹
W	96	% reflectance	0.1	%EAC.d ⁻¹
NW	98	% reflectance	0.1	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207554
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 5
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 189

Deposition (mg.m⁻².d⁻¹) 176

Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	1	litres	1.0	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	6.1	units	6.1	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	48	µS.cm ⁻¹	32.0	mg
Conductivity	48	µS.cm ⁻¹	30.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	96	% reflectance	0.1	%EAC.d ⁻¹
NE	96	% reflectance	0.1	%EAC.d ⁻¹
E	96	% reflectance	0.1	%EAC.d ⁻¹
SE	96	% reflectance	0.1	%EAC.d ⁻¹
S	94	% reflectance	0.2	%EAC.d ⁻¹
SW	91	% reflectance	0.3	%EAC.d ⁻¹
W	95	% reflectance	0.2	%EAC.d ⁻¹
NW	97	% reflectance	0.1	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207555
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 6
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 133

Deposition (mg.m⁻².d⁻¹) 124

Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	0.9	litres	0.9	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	5.8	units	5.8	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	43	µS.cm ⁻¹	26.0	mg
Conductivity	43	µS.cm ⁻¹	24.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	98	% reflectance	0.1	%EAC.d ⁻¹
NE	98	% reflectance	0.1	%EAC.d ⁻¹
E	98	% reflectance	0.1	%EAC.d ⁻¹
SE	98	% reflectance	0.1	%EAC.d ⁻¹
S	97	% reflectance	0.1	%EAC.d ⁻¹
SW	95	% reflectance	0.2	%EAC.d ⁻¹
W	96	% reflectance	0.1	%EAC.d ⁻¹
NW	96	% reflectance	0.1	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207556
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 7
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 74
 Deposition (mg.m⁻².d⁻¹) 69
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	1.1	litres	1.1	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	5.7	units	5.7	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	41	µS.cm ⁻¹	30.0	mg
Conductivity	41	µS.cm ⁻¹	28.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	99	% reflectance	0.0	%EAC.d ⁻¹
NE	99	% reflectance	0.0	%EAC.d ⁻¹
E	100	% reflectance	0.0	%EAC.d ⁻¹
SE	99	% reflectance	0.0	%EAC.d ⁻¹
S	99	% reflectance	0.0	%EAC.d ⁻¹
SW	97	% reflectance	0.1	%EAC.d ⁻¹
W	96	% reflectance	0.1	%EAC.d ⁻¹
NW	97	% reflectance	0.1	%EAC.d ⁻¹



TEST REPORT



Report Number FD/ 20736 Job Number 39805 ID Number 207557
 Site Description Craig-yr-Hesg, Pontypridd
 Sample 8
 Comment Foam Particle Trap
 Date Received 05/05/2022 Sampling Period 07/04/2022 to 04/05/2022 27 Days

UKAS accredited tests are denoted by an asterisk(*)

Method ENV/FD01 **Gauge Type** Combined Frisbee deposit and Adh

* Dust mass (mg) 63
 Deposition (mg.m⁻².d⁻¹) 59
 Detection Limit (mg) 0.5 Date Tested 18/05/2022

Method ENV/FD01

Result Volume **LOD** 0.1 **Date Tested** 05/05/2022

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	1.1	litres	1.1	litres

Method ENV/FD03

Result pH **LOD** 0.1 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
pH	6.1	units	6.1	units

Result TDS **LOD** 0.5 **Date Tested** 06/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
DS	43	µS.cm ⁻¹	32.0	mg
Conductivity	43	µS.cm ⁻¹	30.0	mg.m ⁻² .d ⁻¹

Method ENV/FD05

Result Soiling **LOD** 1 **Date Tested** 17/05/2022

Test / Direction	Measured Value *	Units	Reported Result	Units
N	99	% reflectance	0.0	%EAC.d ⁻¹
NE	99	% reflectance	0.0	%EAC.d ⁻¹
E	98	% reflectance	0.1	%EAC.d ⁻¹
SE	97	% reflectance	0.1	%EAC.d ⁻¹
S	95	% reflectance	0.2	%EAC.d ⁻¹
SW	98	% reflectance	0.1	%EAC.d ⁻¹
W	99	% reflectance	0.0	%EAC.d ⁻¹
NW	98	% reflectance	0.1	%EAC.d ⁻¹