

APPENDIX I

LWD RESULTS

SOUTH WALES GROUND TESTING

LIGHT WEIGHT DEFLECTOMETER TEST

Test Reference	E _{dyn} MPa	CBR _{dyn} %	Equivalent Ev Mpa	Test Depth	Soil description
1	49	20.8	91.5633	GL	Reworked grey clay with gravels and demo crush
2	22	5.7	35.7059	300	Reworked grey clay with gravels and demo crush
3	23	6.1	37.6221	300	Reworked grey clay with gravels and demo crush
4	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
5	26	7.5	43.457	300	Reworked grey clay with gravels and demo crush
6	22	5.7	35.7059	300	Reworked grey clay with gravels and demo crush
7	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
8	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
9	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
10	22	5.7	35.7059	300	Reworked grey clay with gravels and demo crush
11	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
12	74	40.4	148.685	GL	Reworked grey clay with gravels and demo crush
13	96	61.4	201.93	GL	Reworked grey clay with gravels and demo crush
14	100	65.6	211.861	GL	Reworked grey clay with gravels and demo crush
15	141	114.1	317.346	GL	Reworked grey clay with gravels and demo crush
16	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
17	22	5.7	35.7059	300	Reworked grey clay with gravels and demo crush
18	23	6.1	37.6221	300	Reworked grey clay with gravels and demo crush
19	25	7.0	41.4981	300	Reworked grey clay with gravels and demo crush
20	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
21	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
22	21	5.3	33.805	300	Reworked grey clay with gravels and demo crush
23	22	5.7	35.7059	300	Reworked grey clay with gravels and demo crush
24	23	6.1	37.6221	300	Reworked grey clay with gravels and demo crush
25	40	15.0	72.1229	300	Reworked grey clay with gravels and demo crush

Notes:

Weather Conditions: Showers



**SOUTH WALES
GROUND TESTING**

Approved by :

D. McArthur

David McArthur BSc MSc ARSM

Remarks: Test accordance with ASTM 2583 BS 1924-2 (UK)
CBR correlation after Shell 1998

CONTRACT:

Bishop Hedley School

Date: 01.06.26

Sheet 1 of 2

SOUTH WALES GROUND TESTING

LIGHT WEIGHT DEFLECTOMETER TEST

Map view of test locations



South Wales Ground Testing Limited
Unit 25 South Cornelly Trading Estate
Porthcawl Road
Bridgend
CF33 4RE

Company registration number 13687556



**SOUTH WALES
GROUND TESTING**

Approved by :

David McArthur BSc MSc ARSM

CONTRACT:

Bishop Hedley School

Date: 01.06.26

Sheet 2 of 2

APPENDIX J

LABORATORY CHEMICAL TEST RESULTS



Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
CF83 2AX

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 2920807991

e: peterd@integralgeotec.com; joem@integralgeotec.com

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-031604

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Samples received on: 12/06/2026

Your job number: 14075

**Samples instructed on/
Analysis started on:** 12/06/2026

Your order number: 14075 JM

Analysis completed by: 26/06/2026

Report Issue Number: 1

Report issued on: 26/06/2026

Samples Analysed: 5 soil samples

Signed:

Ashleigh Cunningham
Customer Service Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 26-031604

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	949254	949255	949256	949257	949258
Sample Reference	WSA	WSC	WSD	WSE	WSF
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.50	1.00	1.00	1.50	2.00
Date Sampled	11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	0.3	< 0.1	< 0.1	10.4	< 0.1
Moisture Content	%	0.01	NONE	12	12	15	10	11
Total mass of sample received	kg	0.1	NONE	1.4	1.2	1.2	1.2	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	OGR	OGR	OGR	OGR	OGR
Analysis completed	N/A	N/A	N/A	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.8	8.4	8.1	10.3	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	560	510	470	1900	330
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	190	180	110	730	50
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	94.3	90.9	52.7	363	25.1
Sulphide	mg/kg	1	MCERTS	11	29	2.8	8.5	28
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	5.5	< 5.0	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	0.8	1.3	1	0.9
Loss on Ignition @ 450°C	%	0.2	MCERTS	2.9	2.6	3.8	3	2.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.23	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	1.7	0.06	0.1	0.06
Fluorene	mg/kg	0.05	MCERTS	< 0.05	1.7	< 0.05	0.08	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.28	4.7	0.29	0.68	0.24
Anthracene	mg/kg	0.05	MCERTS	0.1	1.4	0.09	0.23	0.08
Fluoranthene	mg/kg	0.05	MCERTS	0.51	5	0.45	1	0.34
Pyrene	mg/kg	0.05	MCERTS	0.42	3.5	0.33	0.8	0.26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.38	2.9	0.28	0.66	0.18
Chrysene	mg/kg	0.05	MCERTS	0.4	2.7	0.28	0.68	0.19
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.46	2.7	0.35	0.81	0.21
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21	1.3	0.16	0.38	0.11
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.33	2.2	0.25	0.62	0.17
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.17	1.1	0.14	0.34	0.11
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	0.44	0.06	0.11	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.19	1.1	0.13	0.37	0.11

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.52	32.5	2.88	7.11	2.06
-----------------------------	-------	-----	-----------	------	------	------	------	------



Analytical Report Number: 26-031604
Project / Site name: Bishop Hedley School Campus - Sports Pitches
Your Order No: 14075 JM

Lab Sample Number				949254	949255	949256	949257	949258
Sample Reference				WSA	WSC	WSD	WSE	WSF
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.50	1.00	1.00	1.50	2.00
Date Sampled				11/06/2026	11/06/2026	11/06/2026	11/06/2026	11/06/2026
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.1	7.4	9.6	7.9	7.1
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1	0.94	0.96	0.95	0.82
Boron (total)	mg/kg	1	MCERTS	4.1	3.9	3.5	3.9	3.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	16	17	17	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	24	26	28	21
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	22	31	26	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	25	24	26	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.4	1.1	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	20	23	21	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	61	69	76	58

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 26-031604
Project / Site name: Bishop Hedley School Campus - Sports Pitches

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
949254	WSA	None Supplied	0.5	Brown clay with gravel and stones
949255	WSC	None Supplied	1	Brown clay and sand with gravel
949256	WSD	None Supplied	1	Brown clay and sand with gravel and vegetation
949257	WSE	None Supplied	1.5	Brown clay and sand with gravel and stones
949258	WSF	None Supplied	2	Brown clay and sand with gravel and vegetation

Analytical Report Number : 26-031604
Project / Site name: Bishop Hedley School Campus - Sports Pitches

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS



Analytical Report Number : 26-031604
Project / Site name: Bishop Hedley School Campus - Sports Pitches

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
CF83 2AX

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 2920807991

e: peterd@integralgeotec.com; Lowri@integralgeotec.com

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-012136

Project / Site name:	Bishop Hedley School Merthyr	Samples received on:	10/03/2026
Your job number:	14075	Samples instructed on/ Analysis started on:	10/03/2026
Your order number:	14075 FG	Analysis completed by:	19/03/2026
Report Issue Number:	1	Report issued on:	19/03/2026
Samples Analysed:	7 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 26-012136

Project / Site name: Bishop Hedley School Merthyr

Your Order No: 14075 FG

Lab Sample Number	853871	853872	853873	853874	853875
Sample Reference	T1	T2	T3	T4	T5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.00-0.10	0.00-0.10	0.00-0.10	0.00-0.10	0.00-0.10
Date Sampled	06/03/2026	06/03/2026	06/03/2026	06/03/2026	06/03/2026
Time Taken	1100	1100	1100	1100	1100
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	17	17	20	25
Total mass of sample received	kg	0.1	NONE	0.2	0.2	0.2	0.2	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	OGR	OGR	OGR	OGR	OGR
Analysis completed	N/A	N/A	N/A	18/03/2026	18/03/2026	18/03/2026	18/03/2026	18/03/2026

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	8.4	7.8	7.8	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	620	590	630	700	810
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	45	89	35	30	40
Sulphide	mg/kg	1	MCERTS	1.5	2.4	2.5	3.9	2.9
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	5.2	< 5.0	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	1.9	1.5	2.3	2.4
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.1	4.5	5	6	5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	0.06	0.1	0.07	1.4
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.05	< 0.05	0.51
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	< 0.05	0.46
Phenanthrene	mg/kg	0.05	MCERTS	0.16	0.33	0.48	0.32	3.1
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	0.11	0.08	0.51
Fluoranthene	mg/kg	0.05	MCERTS	0.28	0.77	0.84	0.74	3.1
Pyrene	mg/kg	0.05	MCERTS	0.23	0.64	0.68	0.65	2.5
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.21	0.61	0.57	0.53	1.6
Chrysene	mg/kg	0.05	MCERTS	0.26	0.77	0.78	0.61	1.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.31	0.96	0.94	0.83	1.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.13	0.43	0.35	0.24	0.75
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.21	0.59	0.65	0.54	1.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.12	0.31	0.35	0.31	0.69
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.11	0.09	0.09	0.22
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.14	0.37	0.38	0.35	0.78

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.12	6.04	6.47	5.36	20.5
-----------------------------	-------	-----	-----------	------	------	------	------	------

Analytical Report Number: 26-012136

Project / Site name: Bishop Hedley School Merthyr

Your Order No: 14075 FG

Lab Sample Number	853871	853872	853873	853874	853875
Sample Reference	T1	T2	T3	T4	T5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.00-0.10	0.00-0.10	0.00-0.10	0.00-0.10	0.00-0.10
Date Sampled	06/03/2026	06/03/2026	06/03/2026	06/03/2026	06/03/2026
Time Taken	1100	1100	1100	1100	1100
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.3	17	11	12	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.8	0.98	0.83	1.1	1
Boron (total)	mg/kg	1	MCERTS	8.8	9.7	6.8	18	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	1.2	1.4	1.4	1.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	50	25	34	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	36	31	33	31
Lead (aqua regia extractable)	mg/kg	1	MCERTS	47	110	70	72	270
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	27	25	30	27
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.4	1.2	< 1.0	1.4
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	39	32	39	37
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	230	150	230	240

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 26-012136

Project / Site name: Bishop Hedley School Merthyr

Your Order No: 14075 FG

Lab Sample Number	853876			853877		
Sample Reference	S1			S2		
Sample Number	None Supplied			None Supplied		
Water Matrix	N/A			N/A		
Depth (m)	0.00-0.10			0.00-0.10		
Date Sampled	06/03/2026			06/03/2026		
Time Taken	1100			1100		
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	30	33
Total mass of sample received	kg	0.1	NONE	0.2	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	OGR	OGR
Analysis completed	N/A	N/A	N/A	18/03/2026	18/03/2026

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.3	7.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	800	670
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	22	21
Sulphide	mg/kg	1	MCERTS	1	< 1.0
Elemental Sulphur	mg/kg	5	MCERTS	5.2	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	4.7	5.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	10	11

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.11	0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.11	0.06
Fluorene	mg/kg	0.05	MCERTS	0.13	0.08
Phenanthrene	mg/kg	0.05	MCERTS	0.91	0.68
Anthracene	mg/kg	0.05	MCERTS	0.21	0.27
Fluoranthene	mg/kg	0.05	MCERTS	1.8	1.6
Pyrene	mg/kg	0.05	MCERTS	1.3	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	1.2
Chrysene	mg/kg	0.05	MCERTS	1.3	1.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.3	1.9
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.79	0.58
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1	1.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.52	0.72
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.17	0.23
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.53	0.73

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11.4	12.2
-----------------------------	-------	-----	-----------	------	------

Analytical Report Number: 26-012136

Project / Site name: Bishop Hedley School Merthyr

Your Order No: 14075 FG

Lab Sample Number				853876	853877
Sample Reference				S1	S2
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				0.00-0.10	0.00-0.10
Date Sampled				06/03/2026	06/03/2026
Time Taken				1100	1100
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.72	0.66
Boron (total)	mg/kg	1	MCERTS	3.3	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S ^{*U/S g}	U/S ^{*U/S g}
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	< 1.80	< 1.80
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	50	45
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.5	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	23
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82	80

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 26-012136

Project / Site name: Bishop Hedley School Merthyr

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
853871	T1	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation
853872	T2	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation
853873	T3	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation
853874	T4	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation
853875	T5	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation
853876	S1	None Supplied	0.00-0.10	Brown loam and sand with gravel and vegetation
853877	S2	None Supplied	0.00-0.10	Brown loam and clay with gravel and vegetation

Analytical Report Number : 26-012136

Project / Site name: Bishop Hedley School Merthyr

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 26-012136

Project / Site name: Bishop Hedley School Merthyr

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
CF83 2AX

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 2920807991

e: joem@integralgeotec.com

t: 01923 225404

f: 01923 237404

e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-028994

Replaces Analytical Report Number: 26-028994, issue no. 1

Additional analysis undertaken.

Asbestos Quantification added to samples 935593, 597 & 603 as per client's request

Project / Site name:	Bishop Hedley School Campus - Sports Pitches	Samples received on:	01/06/2026
Your job number:	14075	Samples instructed on/ Analysis started on:	01/06/2026
Your order number:	14075 JM	Analysis completed by:	24/06/2026
Report Issue Number:	2	Report issued on:	24/06/2026
Samples Analysed:	15 soil samples		



Signed:

Trevor Hill
Customer Service
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.

Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.

Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935593	935594	935595	935596	935597
Sample Reference	WS01	WS03	WS05	WS07	WS08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.70	0.70	0.50	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	14.7	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.4	12	7.5	10	9
Total mass of sample received	kg	0.1	NONE	0.9	0.7	0.7	0.5	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	PKU	PKU	PKU	PKU	PKU
Analysis completed	N/A	N/A	N/A	10/06/2026	10/06/2026	10/06/2026	10/06/2026	10/06/2026
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	Detected	-	-	-	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Not-detected

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	-	-	< 0.001
-------------------------------------	---	-------	-----------	---------	---	---	---	---------

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	-	-	Bitumen
---	------	-----	-----------	--------------	---	---	---	---------

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.1	8.3	8.6	9.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	850	410	540	670	680
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	370	170	180	210	290
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	184	83.3	90.6	106	146
Sulphide	mg/kg	1	MCERTS	14	3	5.2	37	26
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.1	0.8	0.8	1	1.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.2	3.5	2.8	3.5	3.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935593	935594	935595	935596	935597
Sample Reference	WS01	WS03	WS05	WS07	WS08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.70	0.70	0.50	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.14	< 0.05	0.06	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.06	0.25	< 0.05	0.15	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.48	2.2	0.21	2	0.16
Anthracene	mg/kg	0.05	MCERTS	0.21	0.72	< 0.05	1	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.2	2.8	0.32	3.3	0.19
Pyrene	mg/kg	0.05	MCERTS	0.88	1.9	0.26	2.4	0.17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.67	1.2	0.22	1.3	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.81	1.6	0.3	1.4	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.55	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.61	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.82	11.4	1.31	11.7	< 0.80
-----------------------------	-------	-----	-----------	------	------	------	------	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.9	7.9	7.6	8	7.1
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.98	0.98	0.86	1.2	0.91
Boron (total)	mg/kg	1	MCERTS	4.3	3.4	3.6	5.6	3.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	16	15	19	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	24	25	21	24	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	22	19	22	19
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	27	24	23	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.6	< 1.0	1.4	1.3	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	21	21	18	27	18
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	67	61	61	63

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935593	935594	935595	935596	935597
Sample Reference	WS01	WS03	WS05	WS07	WS08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.70	0.70	0.50	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	2.7
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	2.1	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	16	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	29	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	29	< 10

TPH Total >EC5 - EC44 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	29	< 10
--	-------	----	------	------	------	------	----	------

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935598	935599	935600	935601	935602
Sample Reference	WS09	WS10	WS11	WS13	WS14
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.60	0.40	0.80	0.60	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	34.7	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.5	10	9	11	13
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.9	1.1	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN	MJN	MJN	MJN
Analysis completed	N/A	N/A	N/A	10/06/2026	10/06/2026	10/06/2026	10/06/2026	10/06/2026
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
-------------------------------------	---	-------	-----------	---	---	---	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
---	------	-----	-----------	---	---	---	---	---

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.4	8.4	10.3	8.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	680	740	640	1100	610
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	300	280	230	690	330
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	149	141	113	347	165
Sulphide	mg/kg	1	MCERTS	16	15	22	7.7	6.7
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.8	0.9	0.8	0.7	0.9
Loss on Ignition @ 450°C	%	0.2	MCERTS	4.1	3.9	3.6	3.5	4.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935598	935599	935600	935601	935602
Sample Reference	WS09	WS10	WS11	WS13	WS14
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.60	0.40	0.80	0.60	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.16	< 0.05	< 0.05	< 0.05	0.24
Acenaphthylene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.26	< 0.05	0.06	< 0.05	0.15
Fluorene	mg/kg	0.05	MCERTS	0.31	0.05	0.05	< 0.05	0.12
Phenanthrene	mg/kg	0.05	MCERTS	1.7	0.36	0.32	0.38	0.82
Anthracene	mg/kg	0.05	MCERTS	0.61	0.13	0.11	0.14	0.26
Fluoranthene	mg/kg	0.05	MCERTS	3.1	0.81	0.65	0.74	1.2
Pyrene	mg/kg	0.05	MCERTS	2.2	0.6	0.49	0.55	0.99
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.9	0.58	0.41	0.45	0.63
Chrysene	mg/kg	0.05	MCERTS	2.2	0.58	0.53	0.56	0.73
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.4	0.68	0.59	0.6	0.74
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.97	0.33	0.23	0.27	0.35
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.6	0.47	0.38	0.41	0.59
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1	0.29	0.23	0.29	0.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.36	0.11	0.08	0.1	0.07
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1	0.28	0.24	0.28	0.31

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	19.8	5.3	4.38	4.79	7.53
-----------------------------	-------	-----	-----------	------	-----	------	------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.5	7.6	6.9	6.7	9.1
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.96	0.96	0.97	0.88	0.96
Boron (total)	mg/kg	1	MCERTS	3.9	3.8	4.3	4.7	3.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	14	15	14	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	24	22	24	21	27
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25	22	21	20	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	21	22	20	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.4	1.1	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	22	20	20	21
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	65	58	58	56	70

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935598	935599	935600	935601	935602
Sample Reference	WS09	WS10	WS11	WS13	WS14
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.60	0.40	0.80	0.60	0.90
Date Sampled	28/05/2026	28/05/2026	28/05/2026	28/05/2026	28/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	3.1	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	16	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	19	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	19	< 10	< 10	< 10	< 10

TPH Total >EC5 - EC44 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	19	< 10	< 10	< 10	< 10
--	-------	----	------	----	------	------	------	------

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935603	935604	935605	935606	935607
Sample Reference	WS15	WS17	WS19	WS20	WS21
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.50	0.60	0.70	0.50
Date Sampled	28/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	20.7	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	11	11	21	14
Total mass of sample received	kg	0.1	NONE	0.6	0.7	0.8	0.6	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WIK	WIK	WIK	WIK	WIK
Analysis completed	N/A	N/A	N/A	10/06/2026	10/06/2026	10/06/2026	10/06/2026	10/06/2026
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	-	-	-
-------------------------------------	---	-------	-----------	---------	---	---	---	---

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	-	-	-
---	------	-----	-----------	--------------	---	---	---	---

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9	8.5	8.9	7.4	10
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	150	830	960	800	730
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	53	260	470	150	330
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	26.5	132	236	76	165
Sulphide	mg/kg	1	MCERTS	< 1.0	23	28	2.7	68
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	6.4	< 5.0
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	0.9	1	4.6	0.6
Loss on Ignition @ 450°C	%	0.2	MCERTS	4.2	3.6	4.1	14	3.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935603	935604	935605	935606	935607
Sample Reference	WS15	WS17	WS19	WS20	WS21
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.50	0.60	0.70	0.50
Date Sampled	28/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	0.14	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1	0.06	0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1	0.07	0.06
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.31	0.68	0.49	0.36
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.12	0.25	0.11	0.14
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.74	1.6	0.81	0.84
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.57	1.2	0.61	0.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.51	0.92	0.54	0.56
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.54	1.1	0.71	0.68
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.7	1.1	0.82	0.82
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.3	0.58	0.34	0.35
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.49	0.9	0.54	0.56
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.3	0.47	0.31	0.33
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.1	0.14	0.11	0.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.32	0.5	0.29	0.31

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	5	9.69	5.95	5.77
-----------------------------	-------	-----	-----------	--------	---	------	------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.7	8.4	8	17	8
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	0.99	1	0.88	1.2
Boron (total)	mg/kg	1	MCERTS	1.9	4.4	4.3	5.9	5.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	U/S ^u /S ^g	< 1.8
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-	-	< 1.80	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	16	16	30	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	26	24	24	44	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	25	25	64	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	33	22	20	29	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.6	1.2	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	23	22	24	30	26
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	60	64	64	140	62

Analytical Report Number: 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Your Order No: 14075 JM

Lab Sample Number	935603	935604	935605	935606	935607
Sample Reference	WS15	WS17	WS19	WS20	WS21
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.10	0.50	0.60	0.70	0.50
Date Sampled	28/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	5.1	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC16 - EC35 _{EH_CU_1D_AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	0.031	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	11	15	< 10
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	11	15	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	11	15	< 10

TPH Total >EC5 - EC44 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	< 10	< 10	11	15	< 10
--	-------	----	------	------	------	----	----	------

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: **26-028994**
Project / Site name: **Bishop Hedley School Campus - Spr**
Your Order No: **14075 JM**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
935593	WS01	0.3	163	Loose Fibres	Amosite	< 0.001	< 0.001	23/06/2026	PKU
935597	WS08	0.9	179	Bitumen	Chrysotile	< 0.001	< 0.001	23/06/2026	PKU
935603	WS15	1.1	192	Loose Fibres	Chrysotile	< 0.001	< 0.001	24/06/2026	WIK

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
935593	WS01	None Supplied	0.3	Brown clay and sand with gravel
935594	WS03	None Supplied	0.7	Brown clay and sand with gravel
935595	WS05	None Supplied	0.7	Brown clay and sand with vegetation and stones
935596	WS07	None Supplied	0.5	Brown clay and sand with gravel
935597	WS08	None Supplied	0.9	Brown clay and sand with gravel
935598	WS09	None Supplied	0.6	Brown clay and sand with gravel and stones
935599	WS10	None Supplied	0.4	Brown clay and sand with gravel
935600	WS11	None Supplied	0.8	Brown clay and sand with gravel
935601	WS13	None Supplied	0.6	Brown clay with gravel
935602	WS14	None Supplied	0.9	Brown clay with gravel
935603	WS15	None Supplied	1.1	Brown clay
935604	WS17	None Supplied	0.5	Brown clay and sand
935605	WS19	None Supplied	0.6	Brown clay and sand with gravel and stones
935606	WS20	None Supplied	0.7	Brown clay and sand with vegetation
935607	WS21	None Supplied	0.5	Brown clay and sand with gravel

Analytical Report Number : 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 26-028994

Project / Site name: Bishop Hedley School Campus - Sports Pitches

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

APPENDIX K

SUMMARY OF CHEMICAL TEST RESULTS – NORTHERN CAMPUS ENGINEERED FILL

SUMMARY OF LABORATORY SOIL TEST RESULTS

METALS AND SEMI-METALS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Northern Campus - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Arsenic (mg/kg)	Boron (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (Elemental) (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
1	WSA	0.50	8.1	4.1	1	< 0.2	17	< 1.8	28	24	< 0.3	28	< 1.0	22	66
2	WSC	1.00	7.4	3.9	0.94	< 0.2	16	< 1.8	24	22	< 0.3	25	1.4	20	61
3	WSD	1.00	9.6	3.5	0.96	< 0.2	17	< 1.8	26	31	< 0.3	24	1.1	23	69
4	WSE	1.50	7.9	3.9	0.95	< 0.2	17	< 1.8	28	26	< 0.3	26	< 1.0	21	76
5	WSF	2.00	7.1	3.4	0.82	< 0.2	16	< 1.8	21	24	< 0.3	22	< 1.0	19	58
Screening Criteria Value			170.0	46000.0	63.0	532.0	-	220.0	44000.0	1300.0	30.0	3400.0	1800.0	5000.0	170000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	-	S4UL	S4UL	C4SL	S4UL	S4UL	S4UL	S4UL	S4UL

SUMMARY OF LABORATORY SOIL TEST RESULTS

INORGANIC CHEMICALS & OTHERS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Northern Campus - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Cyanide (mg/kg)	Loss on ignition, dried solids (%)	Moisture content at 30 C (%)	Phenol (mg/kg)	pH (pH units)	Water Soluble Sulphate (g/l)	Sulphate Total as SO4 (mg/kg)	Sulphide (mg/kg)	Elemental Sulphur (mg/kg)	TOC by Ignition in O2 (%)	Equivalent SOM (%)	Asbestos in Soil	Asbestos Quantification (%)
1	WSA	0.50	< 1.0	2.90	12.00	< 1.0	8.80	94.300	560.00	11.00	#N/A	0.90	1.55	Not-detected	#N/A
2	WSC	1.00	< 1.0	2.60	12.00	< 1.0	8.40	90.900	510.00	29.00	#N/A	0.80	1.38	Not-detected	#N/A
3	WSD	1.00	< 1.0	3.80	15.00	< 1.0	8.10	52.700	470.00	2.80	#N/A	1.30	2.24	Not-detected	#N/A
4	WSE	1.50	< 1.0	3.00	10.00	< 1.0	10.30	363.000	1900.00	8.50	#N/A	1.00	1.72	Not-detected	#N/A
5	WSF	2.00	< 1.0	2.50	11.00	< 1.0	8.30	25.100	330.00	28.00	#N/A	0.90	1.55	Not-detected	#N/A
Screening Criteria Value			34.0	-	-	760.0	-	-	-	-	-	-	-	-	0.001
Source of Screening Criteria Value			ATRISK	-	-	S4UL	-	-	-	-	-	-	-	-	IOM

SUMMARY OF LABORATORY SOIL TEST RESULTS

POLYAROMATIC HYDROCARBONS (PAH)

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Northern Campus - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(ghi)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(ah)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(123cd)pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
1	WSA	0.50	< 0.05	< 0.05	0.1	0.38	0.33	0.46	0.19	0.21	0.4	0.06	0.51	< 0.05	0.17	< 0.05	0.28	0.42
2	WSC	1.00	1.7	< 0.05	1.4	2.9	2.2	2.7	1.1	1.3	2.7	0.44	5	1.7	1.1	< 0.05	4.7	3.5
3	WSD	1.00	0.06	< 0.05	0.09	0.28	0.25	0.35	0.13	0.16	0.28	0.06	0.45	< 0.05	0.14	< 0.05	0.29	0.33
4	WSE	1.50	0.1	< 0.05	0.23	0.66	0.62	0.81	0.37	0.38	0.68	0.11	1	0.08	0.34	0.23	0.68	0.8
5	WSF	2.00	0.06	< 0.05	0.08	0.18	0.17	0.21	0.11	0.11	0.19	< 0.05	0.34	< 0.05	0.11	< 0.05	0.24	0.26
Screening Criteria Value			29000.0	29000.0	150000.0	49.0	11.0	13.0	1400.0	370.0	93.0	1.10	6300.0	20000.0	150.0	76.4	6200.0	15000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL



APPENDIX L

SUMMARY OF CHEMICAL TEST RESULTS – SPORTS PITCH ENGINEERED FILL

SUMMARY OF LABORATORY SOIL TEST RESULTS

METALS AND SEMI-METALS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Arsenic (mg/kg)	Boron (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (Elemental) (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
1	WS01	0.30	7.9	4.3	0.98	< 0.2	15	< 1.8	24	23	< 0.3	23	1.6	21	62
2	WS03	0.70	7.9	3.4	0.98	< 0.2	16	< 1.8	25	22	< 0.3	27	< 1.0	21	67
3	WS05	0.70	7.6	3.6	0.86	< 0.2	15	< 1.8	21	19	< 0.3	24	1.4	18	61
4	WS07	0.50	8	5.6	1.2	< 0.2	19	< 1.8	24	22	< 0.3	23	1.3	27	61
5	WS08	0.90	7.1	3.8	0.91	< 0.2	14	< 1.8	25	19	< 0.3	24	< 1.0	18	63
6	WS09	0.60	7.5	3.9	0.96	< 0.2	15	< 1.8	24	25	< 0.3	23	< 1.0	22	65
7	WS10	0.40	7.6	3.8	0.96	< 0.2	14	< 1.8	22	22	< 0.3	21	< 1.0	22	58
8	WS11	0.80	6.9	4.3	0.97	< 0.2	15	< 1.8	24	21	< 0.3	22	1.4	20	58
9	WS13	0.60	6.7	4.7	0.88	< 0.2	14	< 1.8	21	20	< 0.3	20	1.1	20	56
10	WS14	0.90	9.1	3.6	0.96	< 0.2	16	< 1.8	27	22	< 0.3	26	< 1.0	21	70
11	WS15	1.10	7.7	1.9	1.2	< 0.2	19	< 1.8	26	20	< 0.3	33	< 1.0	23	60
12	WS17	0.50	8.4	4.4	0.99	< 0.2	16	< 1.8	24	25	< 0.3	22	< 1.0	22	64
13	WS19	0.60	8	4.3	1	0.2	16	< 1.8	24	25	< 0.3	20	1.6	24	64
14	WS20	0.70	17	5.9	0.88	0.5	30	< 1.8	44	64	< 0.3	29	1.2	30	140
15	WS21	0.50	8	5.7	1.2	< 0.2	17	< 1.8	22	23	< 0.3	21	< 1.0	26	62
Screening Criteria Value			170.0	46000.0	63.0	532.0	-	220.0	44000.0	1300.0	30.0	3400.0	1800.0	5000.0	170000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	-	S4UL	S4UL	C4SL	S4UL	S4UL	S4UL	S4UL	S4UL

SUMMARY OF LABORATORY SOIL TEST RESULTS

INORGANIC CHEMICALS & OTHERS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Cyanide (mg/kg)	Loss on ignition, dried solids (%)	Moisture content at 30 C (%)	Phenol (mg/kg)	pH (pH units)	Water Soluble Sulphate (g/l)	Sulphate Total as SO4 (mg/kg)	Sulphide (mg/kg)	Elemental Sulphur (mg/kg)	TOC by Ignition in O2 (%)	Equivalent SOM (%)	Asbestos in Soil	Asbestos Quantification (%)
1	WS01	0.30	< 1.0	3.20	9.40	< 1.0	8.40	184.000	850.00	14.00	#N/A	1.10	1.89	Detected	< 0.001
2	WS03	0.70	< 1.0	3.50	12.00	< 1.0	8.10	83.300	410.00	3.00	#N/A	0.80	1.38	Not-detected	#N/A
3	WS05	0.70	< 1.0	2.80	7.50	< 1.0	8.30	90.600	540.00	5.20	#N/A	0.80	1.38	Not-detected	#N/A
4	WS07	0.50	< 1.0	3.50	10.00	< 1.0	8.60	106.000	670.00	37.00	#N/A	1.00	1.72	Not-detected	#N/A
5	WS08	0.90	< 1.0	3.50	9.00	< 1.0	9.10	146.000	680.00	26.00	#N/A	1.10	1.89	Detected	<0.001
6	WS09	0.60	< 1.0	4.10	7.50	< 1.0	8.40	149.000	680.00	16.00	#N/A	0.80	1.38	Not-detected	#N/A
7	WS10	0.40	< 1.0	3.90	10.00	< 1.0	8.40	141.000	740.00	15.00	#N/A	0.90	1.55	Not-detected	#N/A
8	WS11	0.80	< 1.0	3.60	9.00	< 1.0	8.40	113.000	640.00	22.00	#N/A	0.80	1.38	Not-detected	#N/A
9	WS13	0.60	< 1.0	3.50	11.00	< 1.0	10.30	347.000	1100.00	7.70	#N/A	0.70	1.20	Not-detected	#N/A
10	WS14	0.90	< 1.0	4.70	13.00	< 1.0	8.80	165.000	610.00	6.70	#N/A	0.90	1.55	Not-detected	#N/A
11	WS15	1.10	< 1.0	4.20	16.00	< 1.0	7.90	26.500	150.00	< 1.0	#N/A	0.60	1.03	Detected	< 0.001
12	WS17	0.50	< 1.0	3.60	11.00	< 1.0	8.50	132.000	830.00	23.00	#N/A	0.90	1.55	Not-detected	#N/A
13	WS19	0.60	< 1.0	4.10	11.00	< 1.0	8.90	236.000	960.00	28.00	#N/A	1.00	1.72	Not-detected	#N/A
14	WS20	0.70	< 1.0	14.00	21.00	< 1.0	7.40	76.000	800.00	2.70	#N/A	4.60	7.91	Not-detected	#N/A
15	WS21	0.50	< 1.0	3.20	14.00	< 1.0	10.00	165.000	730.00	68.00	#N/A	0.60	1.03	Not-detected	#N/A
Screening Criteria Value			34.0	-	-	760.0	-	-	-	-	-	-	-	-	0.001
Source of Screening Criteria Value			ATRISK	-	-	S4UL	-	-	-	-	-	-	-	-	IOM

SUMMARY OF LABORATORY SOIL TEST RESULTS

POLYAROMATIC HYDROCARBONS (PAH)

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Engineered Fill
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(ghi)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(ah)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(123cd)pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
1	WS01	0.30	< 0.05	< 0.05	0.21	0.67	0.55	< 0.05	< 0.05	< 0.05	0.81	< 0.05	1.2	0.06	< 0.05	< 0.05	0.48	0.88
2	WS03	0.70	0.14	< 0.05	0.72	1.2	< 0.05	< 0.05	< 0.05	< 0.05	1.6	< 0.05	2.8	0.25	0.61	< 0.05	2.2	1.9
3	WS05	0.70	< 0.05	< 0.05	< 0.05	0.22	< 0.05	< 0.05	< 0.05	< 0.05	0.3	< 0.05	0.32	< 0.05	< 0.05	< 0.05	0.21	0.26
4	WS07	0.50	0.06	< 0.05	1	1.3	< 0.05	< 0.05	< 0.05	< 0.05	1.4	< 0.05	3.3	0.15	< 0.05	< 0.05	2	2.4
5	WS08	0.90	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05	< 0.05	< 0.05	0.16	0.17
6	WS09	0.60	0.26	0.06	0.61	1.9	1.6	2.4	1	0.97	2.2	0.36	3.1	0.31	1	0.16	1.7	2.2
7	WS10	0.40	< 0.05	< 0.05	0.13	0.58	0.47	0.68	0.28	0.33	0.58	0.11	0.81	0.05	0.29	< 0.05	0.36	0.6
8	WS11	0.80	0.06	< 0.05	0.11	0.41	0.38	0.59	0.24	0.23	0.53	0.08	0.65	0.05	0.23	< 0.05	0.32	0.49
9	WS13	0.60	< 0.05	< 0.05	0.14	0.45	0.41	0.6	0.28	0.27	0.56	0.1	0.74	< 0.05	0.29	< 0.05	0.38	0.55
10	WS14	0.90	0.15	< 0.05	0.26	0.63	0.59	0.74	0.31	0.35	0.73	0.07	1.2	0.12	0.3	0.24	0.82	0.99
11	WS15	1.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
12	WS17	0.50	< 0.05	< 0.05	0.12	0.51	0.49	0.7	0.32	0.3	0.54	0.1	0.74	< 0.05	0.3	< 0.05	0.31	0.57
13	WS19	0.60	0.1	< 0.05	0.25	0.92	0.9	1.1	0.5	0.58	1.1	0.14	1.6	0.1	0.47	0.06	0.68	1.2
14	WS20	0.70	0.06	< 0.05	0.11	0.54	0.54	0.82	0.29	0.34	0.71	0.11	0.81	0.07	0.31	0.14	0.49	0.61
15	WS21	0.50	0.05	< 0.05	0.14	0.56	0.56	0.82	0.31	0.35	0.68	0.1	0.84	0.06	0.33	< 0.05	0.36	0.6
Screening Criteria Value			29000.0	29000.0	150000.0	49.0	11.0	13.0	1400.0	370.0	93.0	1.10	6300.0	20000.0	150.0	76.4	6200.0	15000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL

SUMMARY OF LABORATORY SOIL TEST RESULTS

PETROLEUM HYDROCARBONS

Job No.: 14075
Site: Bishop Hedley
Soil Type: Sports Pitch - Engineered Fill
Soil Organic Matter: 1%

No.	Location	Depth (m)	Aliphatic C5-C6 (mg/kg)	Aliphatic C6-C8 (mg/kg)	Aliphatic C8-C10 (mg/kg)	Aliphatic C10- C12 EPH (mg/kg)	Aliphatic C12- C16 EPH (mg/kg)	Aliphatic C16- C35 EPH (mg/kg)	Aliphatic C35- C44 EPH (mg/kg)	Aromatic C5-C7 (mg/kg)	Aromatic C7-C8 (mg/kg)	Aromatic C8- C10 (mg/kg)	Aromatic C10- C12 EPH (mg/kg)	Aromatic C12- C16 EPH (mg/kg)	Aromatic C16- C21 EPH (mg/kg)	Aromatic C21- C35 EPH (mg/kg)	Aromatic C35- C40 EPH (mg/kg)
1	WS01	0.30	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
2	WS03	0.70	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
3	WS05	0.70	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
4	WS07	0.50	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	2.1	10	16	< 10
5	WS08	0.90	< 0.010	< 0.010	< 0.010	< 1.0	2.7	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
6	WS09	0.60	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	3.1	< 10	16	< 10
7	WS10	0.40	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
8	WS11	0.80	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
9	WS13	0.60	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
10	WS14	0.90	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
11	WS15	1.10	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
12	WS17	0.50	< 0.010	< 0.010	< 0.010	< 1.0	5.1	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
13	WS19	0.60	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	11	< 10
14	WS20	0.70	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	0.031	< 1.0	< 2.0	< 10	15	< 10
15	WS21	0.50	< 0.010	< 0.010	< 0.010	< 1.0	< 2.0	< 10	< 8.4	< 0.010	< 0.010	< 0.020	< 1.0	< 2.0	< 10	< 10	< 10
Screening Criteria Value			95000.0	150000.0	14000.0	21000.0	25000.0	450000.0	450000.0	76000.0	87000.0	7200.0	9200.0	10000.0	7600.0	7800.0	7800.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL

APPENDIX M

SUMMARY OF CHEMICAL TEST RESULTS – SPORTS PITCH CAPPING SOILS

SUMMARY OF LABORATORY SOIL TEST RESULTS

METALS AND SEMI-METALS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Capping Soils (Pitch Make-up)
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Arsenic (mg/kg)	Boron (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (Elemental) (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
1	T1	0.10	9.3	8.8	0.8	0.7	27	< 1.8	25	47	< 0.3	23	< 1.0	30	140
2	T2	0.10	17	9.7	0.98	1.2	50	< 1.8	36	110	< 0.3	27	1.4	39	230
3	T3	0.10	11	6.8	0.83	1.4	25	< 1.8	31	70	< 0.3	25	1.2	32	150
4	T4	0.10	12	18	1.1	1.4	34	< 1.8	33	72	< 0.3	30	< 1.0	39	230
5	T5	0.10	15	14	1	1.5	30	< 1.8	31	270	< 0.3	27	1.4	37	240
6	S1	0.10	17	3.3	0.72	0.3	21	< 1.8	28	50	< 0.3	21	1.5	27	82
7	S2	0.10	15	3.1	0.66	0.4	18	< 1.8	26	45	< 0.3	19	< 1.0	23	80
Screening Criteria Value			170.0	46000.0	63.0	532.0	-	220.0	44000.0	1300.0	30.0	3400.0	1800.0	5000.0	170000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	-	S4UL	S4UL	C4SL	S4UL	S4UL	S4UL	S4UL	S4UL

SUMMARY OF LABORATORY SOIL TEST RESULTS

INORGANIC CHEMICALS & OTHERS

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Capping Soils (Pitch Make-up)
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Cyanide (mg/kg)	Loss on ignition, dried solids (%)	Moisture content at 30 C (%)	Phenol (mg/kg)	pH (pH units)	Water Soluble Sulphate (g/l)	Sulphate Total as SO4 (mg/kg)	Sulphide (mg/kg)	Elemental Sulphur (mg/kg)	TOC by Ignition in O2 (%)	Equivalent SOM (%)	Asbestos in Soil	Asbestos Quantification (%)
1	T1	0.10	< 1.0	3.10	14.00	< 1.0	7.90	#N/A	620.00	1.50	#N/A	0.90	1.55	Not-detected	#N/A
2	T2	0.10	< 1.0	4.50	17.00	< 1.0	8.40	#N/A	590.00	2.40	#N/A	1.90	3.27	Not-detected	#N/A
3	T3	0.10	< 1.0	5.00	17.00	< 1.0	7.80	#N/A	630.00	2.50	#N/A	1.50	2.58	Not-detected	#N/A
4	T4	0.10	< 1.0	6.00	20.00	< 1.0	7.80	#N/A	700.00	3.90	#N/A	2.30	3.96	Not-detected	#N/A
5	T5	0.10	< 1.0	5.00	25.00	< 1.0	7.90	#N/A	810.00	2.90	#N/A	2.40	4.13	Not-detected	#N/A
6	S1	0.10	< 1.0	10.00	30.00	< 1.0	7.30	#N/A	800.00	1.00	#N/A	4.70	8.08	Not-detected	#N/A
7	S2	0.10	< 1.0	11.00	33.00	< 1.0	7.20	#N/A	670.00	< 1.0	#N/A	5.10	8.77	Not-detected	#N/A
Screening Criteria Value			34.0	-	-	760.0	-	-	-	-	-	-	-	-	0.001
Source of Screening Criteria Value			ATRISK	-	-	S4UL	-	-	-	-	-	-	-	-	IOM

SUMMARY OF LABORATORY SOIL TEST RESULTS

POLYAROMATIC HYDROCARBONS (PAH)

Job No.: 14075
 Site: Bishop Hedley
 Soil Type: Sports Pitch - Capping Soils (Pitch Make-up)
 Soil Organic Matter: 1%

No.	Location	Depth (m)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(ghi)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(ah)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(123cd)pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)
1	T1	0.10	< 0.05	< 0.05	< 0.05	0.21	0.21	0.31	0.14	0.13	0.26	< 0.05	0.28	< 0.05	0.12	0.06	0.16	0.23
2	T2	0.10	< 0.05	< 0.05	0.09	0.61	0.59	0.96	0.37	0.43	0.77	0.11	0.77	< 0.05	0.31	0.06	0.33	0.64
3	T3	0.10	0.05	< 0.05	0.11	0.57	0.65	0.94	0.38	0.35	0.78	0.09	0.84	0.06	0.35	0.1	0.48	0.68
4	T4	0.10	< 0.05	< 0.05	0.08	0.53	0.54	0.83	0.35	0.24	0.61	0.09	0.74	< 0.05	0.31	0.07	0.32	0.65
5	T5	0.10	0.51	< 0.05	0.51	1.6	1.5	1.8	0.78	0.75	1.6	0.22	3.1	0.46	0.69	1.4	3.1	2.5
6	S1	0.10	0.11	< 0.05	0.21	1.2	1	1.3	0.53	0.79	1.3	0.17	1.8	0.13	0.52	0.11	0.91	1.3
7	S2	0.10	0.06	< 0.05	0.27	1.2	1.2	1.9	0.73	0.58	1.5	0.23	1.6	0.08	0.72	0.1	0.68	1.3
Screening Criteria Value			29000.0	29000.0	150000.0	49.0	11.0	13.0	1400.0	370.0	93.0	1.10	6300.0	20000.0	150.0	76.4	6200.0	15000.0
Source of Screening Criteria Value			S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL	S4UL

FIGURES

Site Location

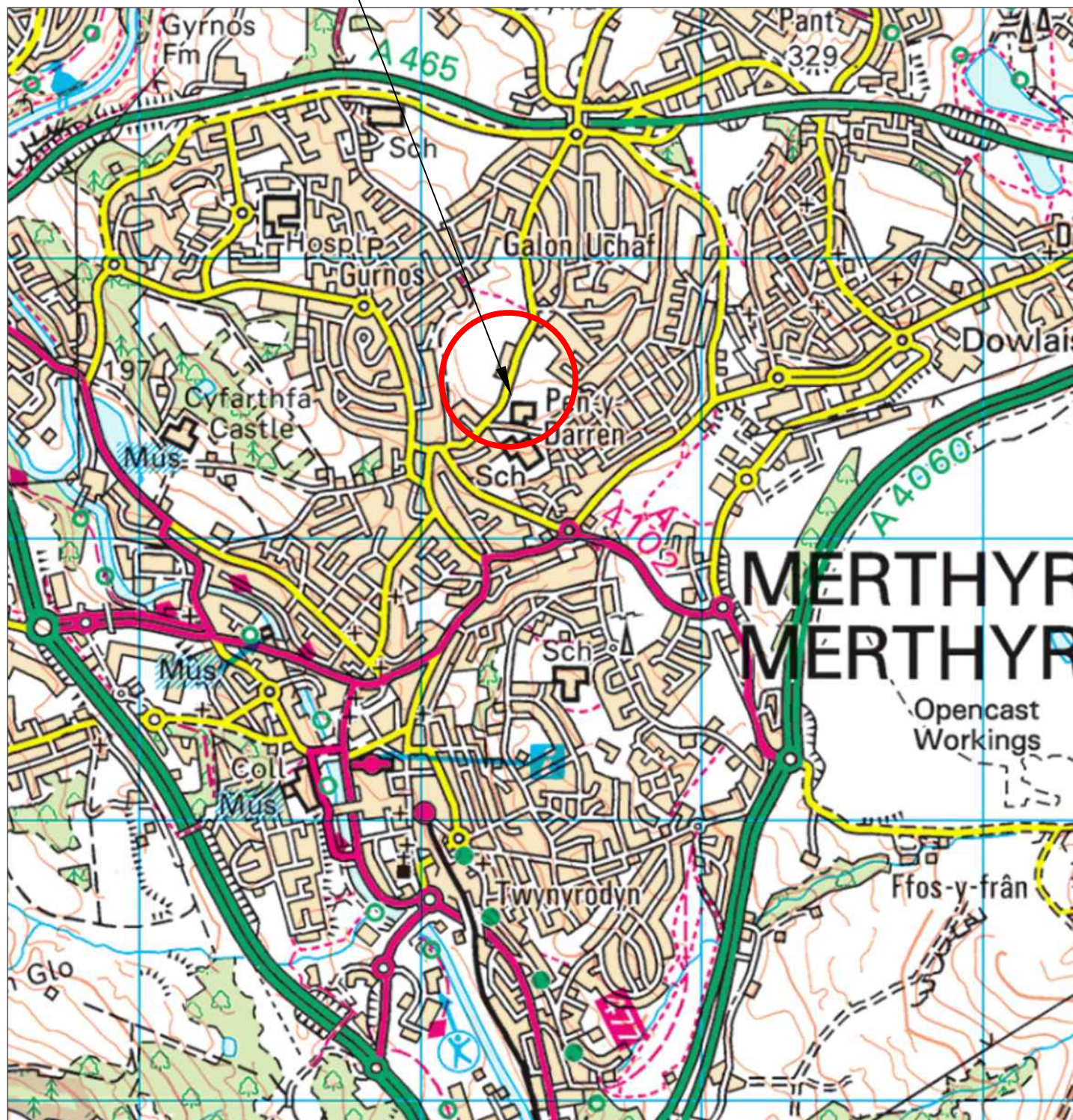


Figure 1: Site Location

Project: Bishop Hedley School, Merthyr Tydfil
(Northern Campus and Sports Pitch)

Job no.: 14075

Client: Willmott Dixon

Scale: 1:20,000 at A4

Intégral
Géotechnique

Integral House,
7 Beddau Way,
Castlegate Business Park,
Caerphilly,
CF83 2AX.
Tel: 029 2080 7991

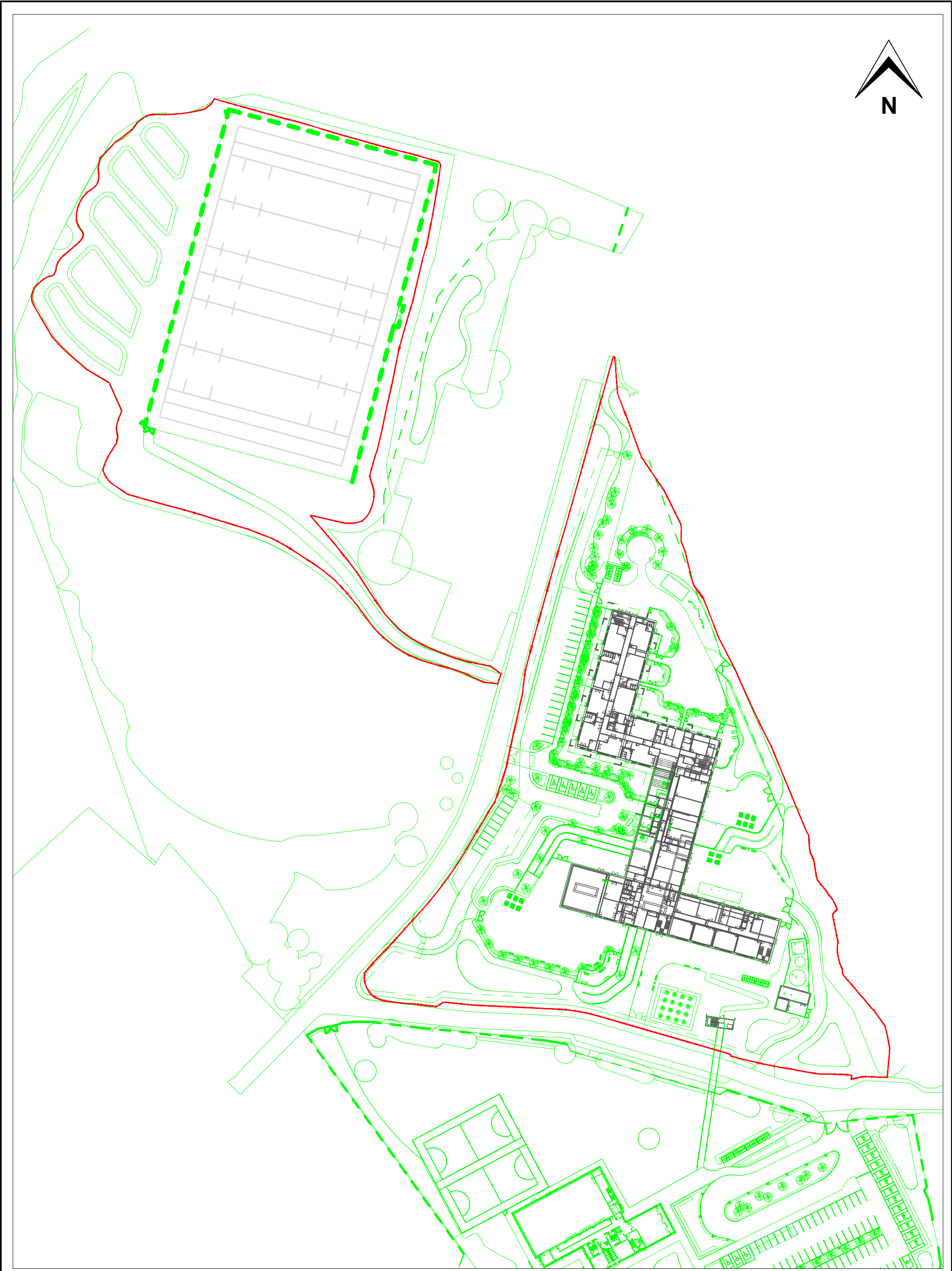


Figure 2: Site Plan

Project: Bishop Hedley School, Merthyr Tydfil (Northern Campus and Sports Pitch)	Job No.: 14075	Intégral Géotechnique	Integral House, 7 Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX. Tel: 029 2080 7991
Client: Willmott Dixon	Scale: NTS		



Figure 3: Validation Test Locations (Northern Campus)

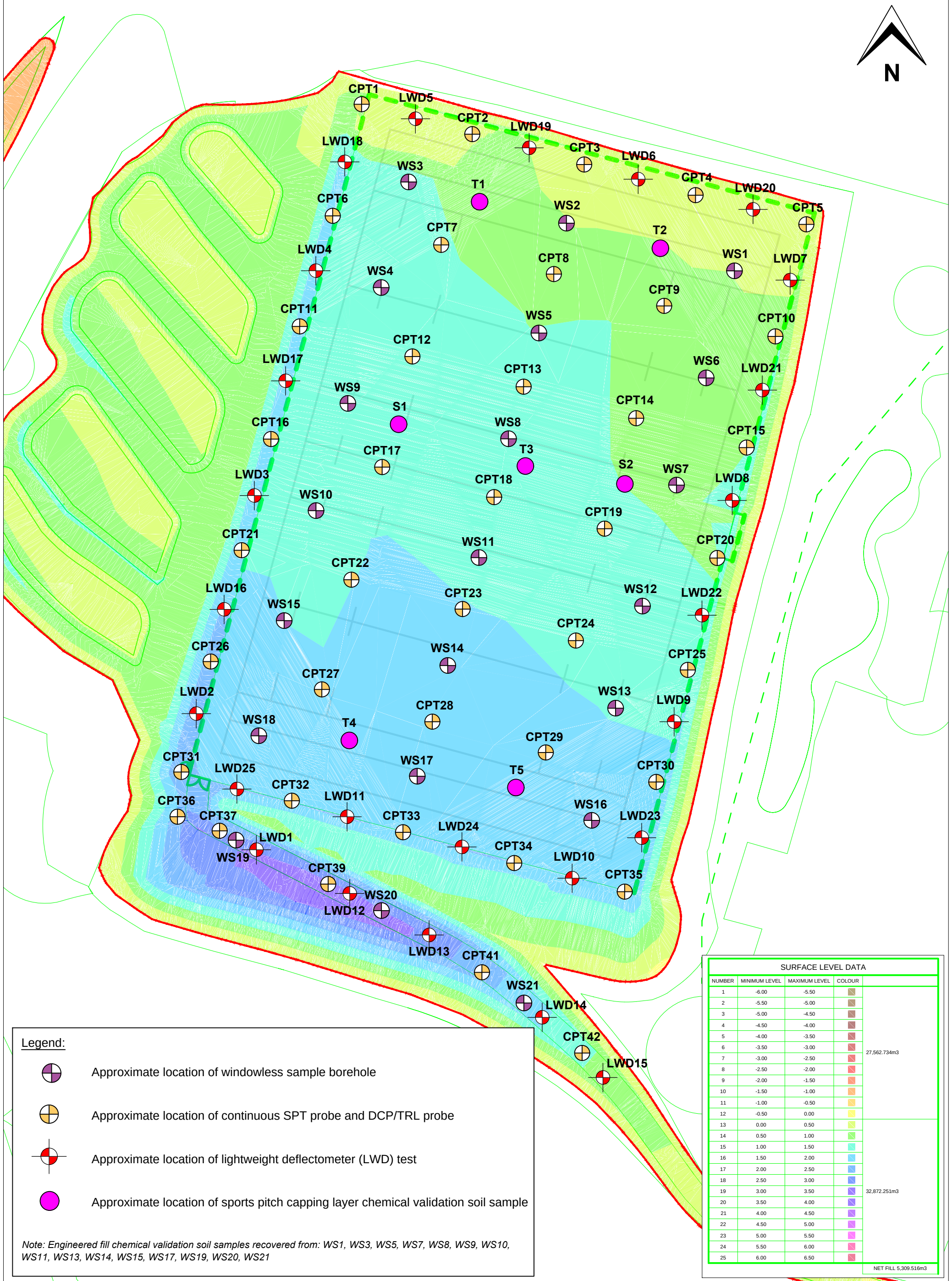


Figure 4: Validation Test Locations (Sports Pitch)