

**Alix Hamilton**

Keltbray Remediation Ltd
St Andrew's House
Portsmouth Road
Esher
KT10 9TA

t: 02076431000

e: alix.hamilton@keltbray.com

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

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 20-17541

Project / Site name:	Clarendon Road	Samples received on:	03/07/2020
Your job number:	6075	Sample instructed/ Analysis started on:	03/07/2020
Your order number:	S-RE6075/00005	Analysis completed by:	08/07/2020
Report Issue Number:	1	Report issued on:	08/07/2020
Samples Analysed:	23 leachate samples - 23 soil samples		

Signed:

Will Fardon

Technical Reviewer (CS 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

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

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.

Iss No 20-17541-1 Clarendon Road 6075

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The results included within the report relate only to the sample(s) submitted for testing.

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Lab Sample Number	1551763	1551764	1551765	1551766	1551767
Sample Reference	VS-I1	VS-I0	VS-I1	VS-I0	VS-J1
Sample Number	None Supplied	None Supplied	West	West	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	3.7	4.4
Total mass of sample received	kg	0.001	NONE	2.0	2.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Chrysotile	Chrysotile	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	0.004	< 0.001	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	0.004	< 0.001	< 0.001

General Inorganics

Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.056	0.062	0.67	0.29	0.22
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	110	120	1300	580	440
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	55.9	62.1	675	291	222
Ammonium as NH ₄	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	1.5

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Lab Sample Number				1551768	1551769	1551770	1551771	1551772
Sample Reference				VS-J0	VS-J0	VS-I0	VS-K0	VS-K0
Sample Number				None Supplied	South	South	None Supplied	South
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Stone Content				%	0.1	NONE	< 0.1	< 0.1
Moisture Content				%	N/A	NONE	5.3	4.6
Total mass of sample received				kg	0.001	NONE	2.0	2.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.001	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	0.001	-	-	-	-

General Inorganics

Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.059	0.075	0.052	0.035	0.027
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	120	150	100	71	54
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	58.8	75.4	52.2	35.3	27.1
Ammonium as NH ₄	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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Lab Sample Number				1551773	1551774	1551775	1551776	1551777
Sample Reference				VS-L0	VS-L0	VS-M0	VS-M0	VS-K1
Sample Number				None Supplied	South	None Supplied	South	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	27	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	4.3	3.2	6.6	12	12
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	< 0.001

General Inorganics

Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.039	0.034	0.076	0.39	0.045
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	79	69	150	780	90
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	39.4	34.3	76.3	390	45.0
Ammonium as NH ₄	mg/kg	0.5	MCERTS	< 0.5	< 0.5	0.9	2.5	0.5

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Lab Sample Number	1551778	1551779	1551780	1551781	1551782
Sample Reference	VS-L1	VS-M1	VS-N1	VS-N0	VS-N1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	Burday
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	8.2	15
Total mass of sample received	kg	0.001	NONE	2.0	2.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.059	1.2	0.027	0.16	0.051
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	120	2400	54	320	100
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	58.5	1210	26.9	160	50.6
Ammonium as NH ₄	mg/kg	0.5	MCERTS	0.7	< 0.5	< 0.5	< 0.5	< 0.5

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Lab Sample Number	1551783	1552030	1552031		
Sample Reference	VS-01	VS-N-1	VS-01		
Sample Number	None Supplied	None Supplied	None Supplied		
Depth (m)	None Supplied	None Supplied	None Supplied		
Date Sampled	03/07/2020	03/07/2020	03/07/2020		
Time Taken	None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	2.5
Total mass of sample received	kg	0.001	NONE	2.0	2.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	Chrysotile & Amosite		
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Detected		
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	0.001		
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	0.001		

General Inorganics

Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	820	130		
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.41	0.064		
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	411	63.8		
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.25	-	-		
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	500	-	-		
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	250	-	-		
Ammonium as NH ₄	mg/kg	0.5	MCERTS	< 0.5	< 0.5	0.8		



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Lab Sample Number				1551784	1551785	1551786	1551787	1551788
Sample Reference				VS-I1	VS-I0	VS-I1	VS-I0	VS-J1
Sample Number				None Supplied	None Supplied	West	West	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	7.0	4.8	56.0	37.4	24.2
Ammonium as NH ₄	µg/l	15	NONE	60	76	140	180	190



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Lab Sample Number				1551789
Sample Reference				VS-J0
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				03/07/2020
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)				
	Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	8.8
Ammonium as NH ₄	µg/l	15	NONE	89



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Lab Sample Number				1551790	1551791	1551792	1551793	1551794
Sample Reference				VS-J0	VS-I0	VS-K0	VS-K0	VS-L0
Sample Number				South	South	None Supplied	South	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	10.3	8.4	4.5	5.3	5.4
Ammonium as NH ₄	µg/l	15	NONE	94	160	260	170	130



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Lab Sample Number				1551795	1551796	1551797	1551798	1551799
Sample Reference				VS-L0	VS-M0	VS-M0	VS-K1	VS-L1
Sample Number				South	None Supplied	South	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	5.7	8.7	114	6.6	6.1
Ammonium as NH ₄	µg/l	15	NONE	130	43	370	50	33



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Lab Sample Number				1551800	1551801	1551802	1551803	1551804
Sample Reference				VS-M1	VS-N1	VS-N0	VS-N1	VS-01
Sample Number				None Supplied	None Supplied	None Supplied	Burday	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				03/07/2020	03/07/2020	03/07/2020	03/07/2020	03/07/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	225	4.1	4.4	12.6	35.8
Ammonium as NH ₄	µg/l	15	NONE	29	46	53	43	28



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Lab Sample Number				1552032	1552033		
Sample Reference				VS-N-1	VS-01		
Sample Number				None Supplied	None Supplied		
Depth (m)				None Supplied	None Supplied		
Date Sampled				03/07/2020	03/07/2020		
Time Taken				None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	8.6	5.8		
Ammonium as NH ₄	µg/l	15	NONE	41	30		



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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-PL 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
1551765	VS-I1		131	Loose Fibres	Chrysotile	0.004	0.004
1551766	VS-I0		139	Loose Fibres	Chrysotile	< 0.001	< 0.001
1551767	VS-J1		139	Loose Fibres	Chrysotile	< 0.001	< 0.001
1551768	VS-J0		143	Loose Fibres	Chrysotile	0.001	0.001
1551777	VS-K1		153	Loose Fibres	Chrysotile	< 0.001	< 0.001
1551783	VS-01		172	Loose Fibres	Chrysotile	< 0.001	< 0.001
1552031	VS-01		153	Loose Fibres	Chrysotile & Amosite	0.001	0.001

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



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* 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 *
1551763	VS-I1	None Supplied	None Supplied	Light grey clay and sand with gravel.
1551764	VS-I0	None Supplied	None Supplied	Light grey clay and sand with gravel.
1551765	VS-I1	West	None Supplied	Brown clay and sand with gravel.
1551766	VS-I0	West	None Supplied	Brown clay and sand with brick and gravel
1551767	VS-J1	None Supplied	None Supplied	Brown clay and sand with gravel.
1551768	VS-J0	None Supplied	None Supplied	Light grey clay and sand with gravel.
1551769	VS-J0	South	None Supplied	Grey sand with gravel.
1551770	VS-I0	South	None Supplied	Grey sand with gravel.
1551771	VS-K0	None Supplied	None Supplied	Brown clay and sand with gravel.
1551772	VS-K0	South	None Supplied	Brown clay and sand with gravel.
1551773	VS-L0	None Supplied	None Supplied	Brown clay and sand with gravel.
1551774	VS-L0	South	None Supplied	Brown clay and sand with gravel and stones.
1551775	VS-M0	None Supplied	None Supplied	Brown clay and sand with gravel.
1551776	VS-M0	South	None Supplied	Brown clay with gravel.
1551777	VS-K1	None Supplied	None Supplied	Brown clay and sand with gravel and brick.
1551778	VS-L1	None Supplied	None Supplied	Brown loam and sand with gravel and clinker
1551779	VS-M1	None Supplied	None Supplied	Brown clay and sand.
1551780	VS-N1	None Supplied	None Supplied	Beige sand with gravel.
1551781	VS-N0	None Supplied	None Supplied	Brown clay.
1551782	VS-N1	Burday	None Supplied	Brown clay and sand with gravel.
1551783	VS-O1	None Supplied	None Supplied	Brown clay.
1552030	VS-N-1	None Supplied	None Supplied	Brown clay and sand with gravel.
1552031	VS-O1	None Supplied	None Supplied	Brown clay and sand with gravel.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammonium as NH ₄ in leachate	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	NONE
Ammonium as NH ₄ in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
NRA Leachate Prep	10:1 extract with de-ionised water shaken for 24 hours then filtered.	In-house method based on National Rivers Authority	L020-PL	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.	L019-UK/PL	D	NONE
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' 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.