Your Ref: EAWML30058 DP3733BK
Our Ref: 49428/3501/CBH/VKR/NC/AREA 1 AND 2 SW

22nd February 2021

PPC Team
Natural Resources Wales
Rivers House
Fortrain Road
St Mellons Business Park
Cardiff
CF3 0EY

Attn: Tyrone Ward

Dear Tyrone,

Re: EAWML30058 and DP3733BK – Docksway Disposal Site. Latest Area 1 and 2 Surface Water Monitoring Results, Rounds 202 and 203.

We write to provide details of the results of surface water monitoring undertaken at Docksway Disposal Site in December 2020 (Round 202) and January 2021 (Round 203).

With this letter report we enclose summary tables giving field observations and selected field test results for each of the surface water positions. The analytical certificates for the laboratory testing carried out during this monitoring round are included with this report.

Surface water sampling was carried out at five locations during Round 202 and six locations during Round 203, see Table 1 below.

Table 1 Details of Locations Sampled during Rounds 202 and 203

Position Monitored	Location
SW1A (R202 & R203)	River Ebbw Upstream
SW23 (R202 & R203)	Discharge to Maes Glas Pill from Docks Drain Outfall (Disused Culvert)
SW24 (R202 & R203)	Oxbow Lake Position 1
SW25 (R202 & R203)	Area 1 Surface Water
SW26 (R203)	Area 2 Surface Water
C3_Asb (R202 & R203)	Cell 3 settling lagoon

Note: SW02 and SW7 were not monitored during either round due to unsafe access and SW26 was not monitored during R202 as the location was recorded to be dry.

Surface Water Quality

Table 2 (a and b) below shows selected testing results for Rounds 202 and 203. There are no compliance limits set for surface water and therefore there is no commentary regarding the results.

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Berkshire RG1 8DN

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email: Reading.UK@stantec.com

Registered Office:
Stantec UK Ltd
Buckingham Court
Kingsmead Business Park
Frederick Place, London Road
High Wycombe HP11 1JU
Registered in England No. 01188070

Table 2a Testing Results Summary for Round 202

Monitoring Location	Field Temperature (°C)	Lab pH	Ammoniacal Nitrogen (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids (mg/l)	Chemical Oxygen Demand (mg/l)
SW1A	8.49	8.03	<0.2	95.9	<1	n/a	<7
SW23	9.00	7.75	0.742	79.3	<1	n/a	9.73
SW24	7.17	7.67	<0.2	95.9	1.3	n/a	28.6
SW25	11.60	7.95	1.56	81.6	<1	3.15	56.8
C3_Asb	8.03	7.97	3.02	45.1	<1	7.7	114

Table 2b Testing Results Summary for Round 203

Monitoring Location	Field Temperature (°C)	Lab pH	Ammoniacal Nitrogen (mg/l)	Field Dissolved Oxygen (%)	BOD (mg/l)	Suspended Solids (mg/l)	Chemical Oxygen Demand (mg/l)
SW1A	7.61	7.58	<0.2	92.2	<1	n/a	18.4
SW23	6.20	7.88	2.31	80.9	2.41	n/a	45.6
SW24	6.28	7.90	<0.2	81.4	2.45	n/a	22.9
SW25	6.83	7.83	2.30	87.3	3.06	42.10	64.9
SW26	5.37	7.68	5.07	67.6	22.90	117.00	66.1
C3_Asb	6.65	8.04	5.74	70.6	<2	9.05	99.3

The surface water quality has met the specific requirements of the discharge consents for SW25 and SW26 during R202 and R203 for the majority of parameters tested. The exception to this is in SW26, during R203, where the Suspended Solids concentration was recorded at 117mg/l compared to a discharge consent limit of 60mg/l.

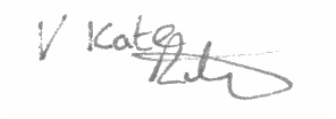
The field operative did not record the presence of a sheen during sampling at C3_Asb and the laboratory did not detect asbestos fibres in the sample from this location during either of the reported rounds.

Concluding Remarks

Newport City Council (NCC) will continue to monitor the surface water quality on and around Docksway Disposal Site in accordance with the aftercare monitoring plan for Area 1, the Environmental Permit, and in accordance with the relevant discharge consent limits. Stantec will continue to provide comment on water quality with reference to point source emission limits to water (Table S3.2 of the Permit), and discharge consent limits within subsequent reports.

If you have any questions regarding the investigations carried out or the data herein, then please do not hesitate to contact us.

Yours sincerely



Kate Riley
Associate
on behalf of Stantec UK Ltd

Encls: Laboratory Certificates

CC: Silvia Gonzalez-Lopez – Newport City Council
Robert Hughes – NCC (Docksway Disposal Site)
Luke Embrey - NCC

ALS Environmental Ltd
Torrington Avenue
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Mr Embrey
Newport City Council
Newport City Council Landfill Site
Newport City Council
Docks Way
Newport NP20 2NS

21 December 2020

Test Report: COV/1961080/2020

Dear Mr Embrey

Analysis of your sample(s) received on 04 December 2020 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Name: A. Zunzunegui

Title: Dept Organic Technical Manager

Report Summary

ANALYSED BY

Mr Luke Embrey
Newport City Council
Newport City Council Landfill Site
Newport City Council
Docks Way
Newport
NP20 2NS

Date of Issue: **21 December 2020**

Report Number: **COV/1961080/2020** Issue **1**

This issue replaces all previous issues

Job Description: Asbestos in Waters

Job Location: Newport Landfill

Number of Samples included in this report **2**

Number of Test Results included in this report **2**

Job Received: **04 December 2020**

Analysis Commenced: **18 December 2020**

Signed:

Name: **A. Zunzunegui** Date: **21 December 2020**

Title: **Dept Organic Technical Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.
Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.
This test report is not a statement of conformity to any specification or standard.

Certificate of Analysis

ANALYSED BY

Report Number:	**COV/1961080/2020**	Issue	**1**
Laboratory Number:	**19940092**	Sample	**1** of **2**
Sample Source:	**Newport City Council**		
Sample Point Description:	**Newport City Council**		
Sample Description:	**C3-Asb**		
Sample Matrix:	**Not In Project**		
Sample Date/Time:	**01 December 2020**	**11:08**	
Sample Received:	**04 December 2020**		
Analysis Complete:	**21 December 2020**		

Test Description	Result	Units	Analysis Date	Accreditation		Method
Asbestos fibres in water	ND	No/100ml	18/12/2020	N	S	SUBCON

Analyst Comments for 19940092: No Analyst Comment

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 

Name: **A. Zunzunegui** Date: **21 December 2020**

Title: **Dept Organic Technical Manager**

ALS Environmental Ltd
Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

Certificate of Analysis

ANALYSED BY

Report Number:	**COV/1961080/2020**	Issue	**1**
Laboratory Number:	**19940093**	Sample	**2** of **2**
Sample Source:	**Newport City Council**		
Sample Point Description:	**Newport City Council**		
Sample Description:	**C3-Pie**		
Sample Matrix:	**Not In Project**		
Sample Date/Time:	**01 December 2020** **11:46**		
Sample Received:	**04 December 2020**		
Analysis Complete:	**21 December 2020**		

Test Description	Result	Units	Analysis Date	Accreditation	Method
Asbestos fibres in water	ND	No/100ml	18/12/2020	N S	SUBCON

Analyst Comments for 19940093: No Analyst Comment

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 

Name: **A. Zunzunegui** Date: **21 December 2020**

Title: **Dept Organic Technical Manager**

ANALYST COMMENTS FOR REPORT COV/1961080/2020 Issue 1

This issue replaces all previous issues

Date of Issue: **21 December 2020**

Sample No	Analysis Comments
19940092	
19940093	

Signed: 

Name: **A. Zunzunegui** Date: **21 December 2020**

Title: **Dept Organic Technical Manager**

DETERMINAND COMMENTS FOR REPORT COV/1961080/2020

ISSUE 1

This issue replaces all previous issues

Date of Issue: 21 December 2020

Sample No	Description	Determinand	Comments

Signed: 

Name: **A. Zunzunegui** Date: **21 December 2020**

Title: **Dept Organic Technical Manager**

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Newport City Council
Civic Centre
Newport
NP20 4UR

Attention: Luke Embrey

CERTIFICATE OF ANALYSIS

Date of report Generation:	10 December 2020
Customer:	Newport City Council
Sample Delivery Group (SDG):	201203-5
Your Reference:	Dec 2020 SW
Location:	Newport landfill site
Report No:	579404

We received 5 samples on Thursday December 03, 2020 and 5 of these samples were scheduled for analysis which was completed on Thursday December 10, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	201203-5	**Client Reference:**	Dec 2020 SW	**Report Number:**	579404
Location:	Newport landfill site	**Order Number:**	700156882	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23352378	C3_Asb		0.00 - 0.00	01/12/2020
23352359	SW23		0.00 - 0.00	01/12/2020
23352363	SW24		0.00 - 0.00	01/12/2020
23352367	SW25		0.00 - 0.00	01/12/2020
23352374	SW1A		0.00 - 0.00	01/12/2020

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

CERTIFICATE OF ANALYSIS

SDG:	201203-5	**Client Reference:**	Dec 2020 SW	**Report Number:**	579404
Location:	Newport landfill site	**Order Number:**	700156882	**Superseded Report:**	

Results Legend

X Test

N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			23352378			23352359			23352363			23352367				23352374			
Customer Sample Reference			C3_Asb			SW23			SW24			SW25				SW1A			
AGS Reference																			
Depth (m)			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00				0.00 - 0.00			
Container			250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	250ml BOD (ALE212)	500ml Plastic (ALE208)	DO KIT + DO 250 ml glass	H2SO4 (ALE244)	250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	
Sample Type			SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 5			X			X			X				X			X	
Anions by Kone (w)	All	NDPs: 0 Tests: 5		X			X			X			X				X		
BOD True Total	All	NDPs: 0 Tests: 5	X			X			X			X				X			
COD Unfiltered	All	NDPs: 0 Tests: 5	X			X			X			X				X			
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 5		X			X			X			X				X		
Dissolved Oxygen by Titration	All	NDPs: 0 Tests: 1												X					
pH Value	All	NDPs: 0 Tests: 5		X			X			X			X				X		
Suspended Solids	All	NDPs: 0 Tests: 2		X									X						

Validated

CERTIFICATE OF ANALYSIS

SDG:	201203-5	**Client Reference:**	Dec 2020 SW	**Report Number:**	579404
Location:	Newport landfill site	**Order Number:**	700156882	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+$@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C3_Asb	SW23	SW24	SW25	SW1A
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)	Surface Water (SW)
			Date Sampled	01/12/2020	01/12/2020	01/12/2020	01/12/2020	01/12/2020
			Sample Time	.	.	.	.	.
			Date Received	03/12/2020	03/12/2020	03/12/2020	03/12/2020	03/12/2020
			SDG Ref	201203-5	201203-5	201203-5	201203-5	201203-5
			Lab Sample No.(s)	23352378	23352359	23352363	23352367	23352374
			AGS Reference					
Suspended solids, Total	<2 mg/l	TM022		7.7 #			3.15 #	
BOD, unfiltered	<1 mg/l	TM045		<1 #	<1 #	1.9 #	<1 #	<1 #
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		3.02 #	0.742 #	<0.2 #	1.56 #	<0.2 #
COD, unfiltered	<7 mg/l	TM107		114 #	9.73 #	28.6 #	56.8 #	<7 #
Conductivity @ 20 deg.C	<0.02 mS/cm	TM120		1.98 #	0.796 #	0.492 #	1.13 #	0.313 #
Chloride	<2 mg/l	TM184		266 #	99.6 #	37.4 #	42.1 #	13.2 #
Oxygen, dissolved	<0.3 mg/l	TM187					8.17	
pH	<1 pH Units	TM256		7.97 #	7.75 #	7.67 #	7.95 #	8.03 #

CERTIFICATE OF ANALYSIS

SDG:	201203-5	**Client Reference:**	Dec 2020 SW	**Report Number:**	579404
Location:	Newport landfill site	**Order Number:**	700156882	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description
TM022	Method 2540D, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part120 1981;BS EN 872	Determination of total suspended solids in waters
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM187	Winkler, L.W, Ber Deutsch. Chem. Ges, 21,2843,1888."	Dissolved Oxygen in Natural and Waste Waters HMSO 1979 ISBN 011 751442
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

Validated

CERTIFICATE OF ANALYSIS

SDG:	201203-5	**Client Reference:**	Dec 2020 SW	**Report Number:**	579404
Location:	Newport landfill site	**Order Number:**	700156882	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	23352378	23352359	23352363	23352367	23352374
Customer Sample Ref.	C3_Asb	SW23	SW24	SW25	SW1A
AGS Ref.					
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Ammoniacal Nitrogen	07-Dec-2020	07-Dec-2020	07-Dec-2020	07-Dec-2020	07-Dec-2020
Anions by Kone (w)	09-Dec-2020	09-Dec-2020	09-Dec-2020	09-Dec-2020	09-Dec-2020
BOD True Total	08-Dec-2020	08-Dec-2020	08-Dec-2020	09-Dec-2020	09-Dec-2020
COD Unfiltered	06-Dec-2020	06-Dec-2020	06-Dec-2020	06-Dec-2020	06-Dec-2020
Conductivity (at 20 deg.C)	04-Dec-2020	04-Dec-2020	04-Dec-2020	04-Dec-2020	04-Dec-2020
Dissolved Oxygen by Titration				10-Dec-2020	
pH Value	04-Dec-2020	04-Dec-2020	04-Dec-2020	04-Dec-2020	04-Dec-2020
Suspended Solids	08-Dec-2020			08-Dec-2020	

Appendix General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.