



## CERTIFICATE OF ANALYSIS

**SDG:** 210215-44  
**Location:** 21-04194

**Client Reference:** 21-04194  
**Order Number:** 20367

**Report Number:** 587810  
**Superseded Report:**

### Appendix

### General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH<sub>4</sub> 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.**



# Final Report

---

**Report No.:** 21-05563-1

**Initial Date of Issue:** 08-Mar-2021

**Client** Sub Surface

**Client Address:** 3 Peel Street  
Preston  
Lancashire  
PR2 2QS

**Contact(s):** Simon Gabbatt

**Project** (6921C) Arkady Industrial Estate, Briscoe Lane, Newton Heath, Gt Manchester

**Quotation No.:** **Date Received:** 24-Feb-2021

**Order No.:** **Date Instructed:** 24-Feb-2021

**No. of Samples:** 3

**Turnaround (Wkdays):** 7 **Results Due:** 04-Mar-2021

**Date Approved:** 08-Mar-2021 **Subcon Results Due:** 17-Mar-2021

**Approved By:**  


**Details:** Glynn Harvey, Technical Manager

---

# Results - Water

(6921C) Arkady Industrial Estate, Briscoe Lane, Newton Heath, Greater Manchester

| Client: Sub Surface     | Chemtest Job No.:    |      |       |       | 21-05563        | 21-05563        | 21-05563        |
|-------------------------|----------------------|------|-------|-------|-----------------|-----------------|-----------------|
| Quotation No.:          | Chemtest Sample ID.: |      |       |       | 1147391         | 1147392         | 1147393         |
|                         | Client Sample ID.:   |      |       |       | 129 130 131 132 | 133 134 135 136 | 137 138 139 140 |
|                         | Sample Location:     |      |       |       | M1A             | M5              | M6              |
|                         | Sample Type:         |      |       |       | WATER           | WATER           | WATER           |
|                         | Top Depth (m):       |      |       |       | 0.80            | 1.00            | 0.50            |
|                         | Date Sampled:        |      |       |       | 22/02/21        | 22/02/21        | 22/02/21        |
| Determinand             | Accred.              | SOP  | Units | LOD   |                 |                 |                 |
| pH                      | U                    | 1010 |       | N/A   | 7.9             | 11.6            | 9.3             |
| Sulphate                | U                    | 1220 | mg/l  | 1.0   | 490             | 44              | 82              |
| Cyanide (Total)         | U                    | 1300 | mg/l  | 0.050 | < 0.050         | < 0.050         | < 0.050         |
| Sulphide                | U                    | 1325 | mg/l  | 0.050 | < 0.050         | < 0.050         | < 0.050         |
| Arsenic (Dissolved)     | U                    | 1455 | µg/l  | 0.20  | 1.0             | 2.9             | 2.3             |
| Boron (Dissolved)       | U                    | 1455 | µg/l  | 10.0  | 120             | 14              | 180             |
| Cadmium (Dissolved)     | U                    | 1455 | µg/l  | 0.12  | < 0.08          | 0.09            | < 0.08          |
| Chromium (Dissolved)    | U                    | 1455 | µg/l  | 0.50  | 22              | 43              | 20              |
| Copper (Dissolved)      | U                    | 1455 | µg/l  | 0.50  | 2.9             | 67              | 2.2             |
| Mercury (Dissolved)     | U                    | 1455 | µg/l  | 0.05  | < 0.05          | < 0.05          | < 0.05          |
| Molybdenum (Dissolved)  | U                    | 1455 | µg/l  | 0.20  | 4.6             | 1500            | 15              |
| Nickel (Dissolved)      | U                    | 1455 | µg/l  | 0.50  | 11              | 18              | 8.6             |
| Lead (Dissolved)        | U                    | 1455 | µg/l  | 0.50  | < 0.50          | 1.8             | < 0.50          |
| Selenium (Dissolved)    | U                    | 1455 | µg/l  | 0.50  | 16              | 21              | 24              |
| Zinc (Dissolved)        | U                    | 1455 | µg/l  | 3.0   | 11              | 4.4             | 6.0             |
| Chromium (Hexavalent)   | U                    | 1490 | µg/l  | 20    | < 20            | < 20            | < 20            |
| TPH >C6-C10             | N                    | 1670 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| TPH >C10-C21            | N                    | 1670 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| TPH >C21-C40            | N                    | 1670 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Total TPH >C6-C40       | U                    | 1670 | µg/l  | 10    | < 10            | < 10            | < 10            |
| Naphthalene             | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Acenaphthylene          | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Acenaphthene            | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Fluorene                | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Phenanthrene            | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Anthracene              | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Fluoranthene            | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Pyrene                  | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Benzo[a]anthracene      | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Chrysene                | N                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Benzo[b]fluoranthene    | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Benzo[k]fluoranthene    | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Benzo[a]pyrene          | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Indeno(1,2,3-c,d)Pyrene | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Dibenz(a,h)Anthracene   | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Benzo[g,h,i]perylene    | U                    | 1700 | µg/l  | 0.10  | < 0.10          | < 0.10          | < 0.10          |
| Total Of 16 PAH's       | N                    | 1700 | µg/l  | 2.0   | < 2.0           | < 2.0           | < 2.0           |
| Benzene                 | U                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| Toluene                 | U                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| Ethylbenzene            | U                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| m & p-Xylene            | U                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| o-Xylene                | U                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| Methyl Tert-Butyl Ether | N                    | 1760 | µg/l  | 1.0   | < 1.0           | < 1.0           | < 1.0           |
| Total Phenols           | U                    | 1920 | mg/l  | 0.030 | < 0.030         | < 0.030         | < 0.030         |
| PFAS Water Suite        | SN                   |      | ng/l  | 1.00  | See Attached    |                 | See Attached    |

## Test Methods

| SOP  | Title                                                                 | Parameters included                                                                                                                                                                                                                                           | Method summary                                                                                                                               |
|------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1010 | pH Value of Waters                                                    | pH                                                                                                                                                                                                                                                            | pH Meter                                                                                                                                     |
| 1220 | Anions, Alkalinity & Ammonium in Waters                               | Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium                                                                                                                                              | Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.                                                                       |
| 1300 | Cyanides & Thiocyanate in Waters                                      | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                               | Continuous Flow Analysis.                                                                                                                    |
| 1325 | Sulphide in Waters                                                    | Sulphides                                                                                                                                                                                                                                                     | Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-p-phenylenediamine.                                    |
| 1455 | Metals in Waters by ICP-MS                                            | Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc                                                                                | Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).                             |
| 1490 | Hexavalent Chromium in Waters                                         | Chromium [VI]                                                                                                                                                                                                                                                 | Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.                                              |
| 1670 | Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID                | TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO                                                                                                                                                                                           | Pentane extraction / GC FID detection                                                                                                        |
| 1700 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID | Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene | Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)         |
| 1760 | Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS        | Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)                                                                                                                                                       | Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds. |
| 1920 | Phenols in Waters by HPLC                                             | Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.                                                                                                                                                   | Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.                                              |

## **Report Information**

### **Key**

---

|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

---

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



Unit 7-8 Hawarden Business Park

Manor Road (off Manor Lane)

Hawarden

Deeside

CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

Chemtest  
Willie Snaith Rd  
Newmarket  
Suffolk  
CB8 7SQ

**Attention:** Chemtest Subcontracting

*WATER*  
**CERTIFICATE OF ANALYSIS**

|                                     |               |
|-------------------------------------|---------------|
| <b>Date of report Generation:</b>   | 03 March 2021 |
| <b>Customer:</b>                    | Chemtest      |
| <b>Sample Delivery Group (SDG):</b> | 210225-70     |
| <b>Your Reference:</b>              | 21-05563      |
| <b>Location:</b>                    | Not Specified |
| <b>Report No:</b>                   | 589015        |

We received 2 samples on Thursday February 25, 2021 and 2 of these samples were scheduled for analysis which was completed on Wednesday March 03, 2021. 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

Validated

|           |               |                   |          |                    |        |
|-----------|---------------|-------------------|----------|--------------------|--------|
| SDG:      | 210225-70     | Client Reference: | 21-05563 | Report Number:     | 589015 |
| Location: | Not Specified | Order Number:     | 20402    | Superseded Report: |        |

### Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m) | Sampled Date |
|------------------|----------------------|----------|-----------|--------------|
| 23792722         | 1147391              | M1A      | 0.80      | 22/02/2021   |
| 23792724         | 1147393              | M6       | 0.50      | 22/02/2021   |

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



Validated

## CERTIFICATE OF ANALYSIS

|           |               |                   |          |                    |        |
|-----------|---------------|-------------------|----------|--------------------|--------|
| SDG:      | 210225-70     | Client Reference: | 21-05563 | Report Number:     | 589015 |
| Location: | Not Specified | Order Number:     | 20402    | 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)

23792722  
23792724Customer  
Sample Reference1147391  
1147393

AGS Reference

M1A M6

Depth (m)

0.80 0.50

Container

1plastic (ALE221)  
1plastic (ALE221)

Sample Type

UNL  
UNL

PFAS Liquids

All

NDPs: 0  
Tests: 2

X X





## CERTIFICATE OF ANALYSIS

Validated

|           |               |                   |          |                    |        |
|-----------|---------------|-------------------|----------|--------------------|--------|
| SDG:      | 210225-70     | Client Reference: | 21-05563 | Report Number:     | 589015 |
| Location: | Not Specified | Order Number:     | 20402    | Superseded Report: |        |

### Table of Results - Appendix

| Method No | Reference                    | Description                                                                                |
|-----------|------------------------------|--------------------------------------------------------------------------------------------|
| TM337     | PFAS In Clean Water Matrices | Analysis of perfluoroalkylsulfonates and perfluorocarboxylic acids in clean water matrices |

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).