



Discharge Consent (068/12/2) Reporting

June 2023- August 2023

Author

██████████ – Dalradian Gold Ltd

Date

26th September 2023

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1.0 INTRODUCTION

This report has been prepared by Dalradian Gold Ltd. (DGL) in response to Condition 1.1. of Discharge Consent 068/12/2, which requires quarterly water quality reporting. The consent relates to discharge of site drainage water (at Irish Grid Reference H 5707 8690) arising from the DGL advanced exploration project at Curraghinalt. The site is situated approximately 8 km to the east of the village of Gortin, County Tyrone, Northern Ireland, BT79 7SF.

2.0 SUMMARY OF OPERATIONS DURING THE REPORTING PERIOD

DGL have progressed advanced exploration at the Curraghinalt site. The work progressed under Planning Permission K/2014/0246/F, and has been aimed at collecting information that will support a Feasibility Study and an Environmental Impact Assessment to allow for development of a full mine.

Water discharged via the consent during the reporting period has derived from natural groundwater drainage to the exploration adit and runoff water from various components of the site that has resulted from incident rainfall. Following capture and management of these sources, treatment prior to discharge at the consent location has included passage through a settlement tank, oil interceptor, lamella clarifier (for further sediment removal), and a pH adjustment tank.

DGL informed the Northern Ireland Environment Agency (NIEA) of the intention to commence the site discharge on 3rd December 2014. This document represents the 35th quarterly discharge consent report.

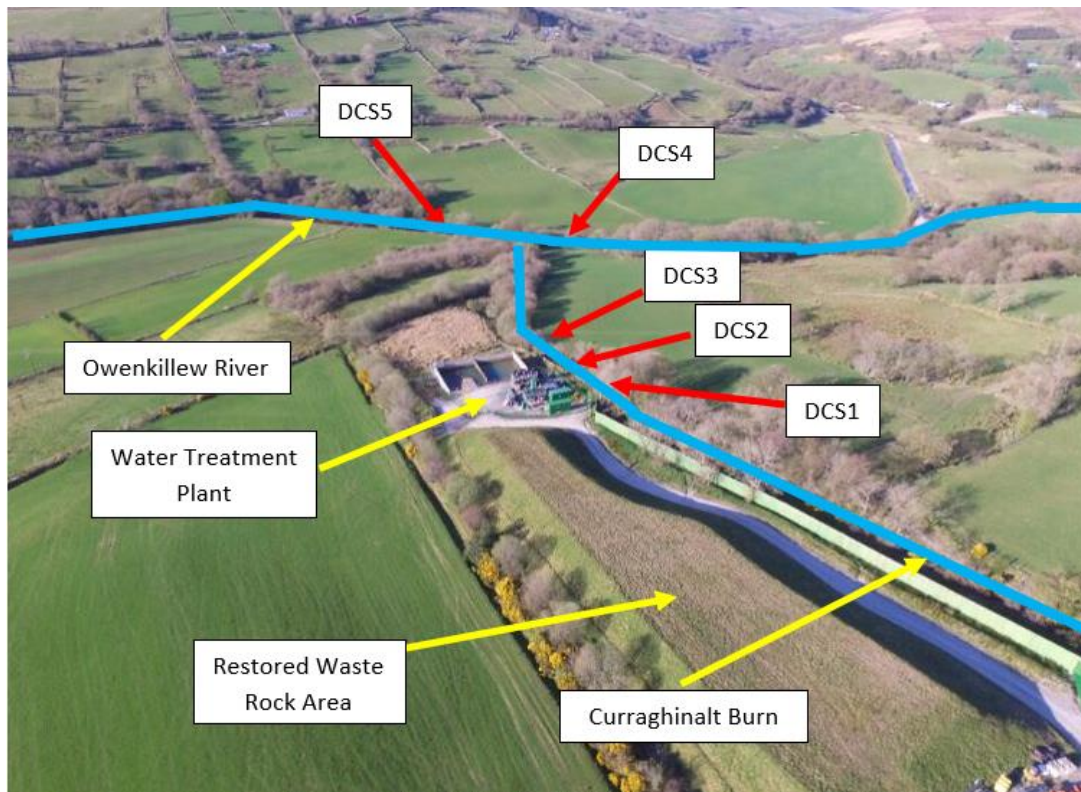
3.0 SAMPLING LOCATIONS, PROTOCOL AND LABORATORIES

Five surface water sample locations are required to be sampled monthly as part of the Discharge Consent. These have been listed below as Discharge Consent Sample 1 (DCS1) to Discharge Consent Sample 5 (DCS5) and are also presented on Figure 1.

- DCS1 - Immediately upstream of the confluence of the site discharge point and Curraghinalt Burn;
- DCS2 - Site discharge point;
- DCS3 - 5 m downstream of the confluence of the site discharge point and Curraghinalt Burn;
- DCS4 - Immediately upstream of the confluence of Curraghinalt Burn and the Owenkillew River; and
- DCS5 - 5 m downstream of the confluence of the Curraghinalt Burn and the Owenkillew River.

DGL has also added 2 more samples as part of QA/QC. The sample ID's are:

- DCS6 – a blank sample consisting of deionised water; and
- DCS7 – a duplicate of any sample between DCS1 and DCS5.



**Figure 1:
Site map showing discharge consent sample locations**

All surface water samples are collected according to protocols described in the DGL Surface Water Sampling Procedure¹. To help ensure quality results, care is taken not to disturb stream bed sediments upstream of the sampling point and prior to sampling. Samples are collected at all locations by a DGL Field Technician wearing a fresh pair of vinyl gloves and from the flowing stream of water to minimise any risks of contamination. All sample bottles are laboratory supplied and are filled to capacity at source.

In accordance with best practice, field filtration for dissolved parameters is undertaken on site using a syringe and attached 0.45µm filter, and these samples are associated with a nitric acid (HNO₃) preservative to thereafter stabilise dissolved metals in solution. All laboratory analytical services during the quarter, including supplementary Quality Assurance/Quality Control (QA/QC) testing, have been provided by Element Materials Technology (Element), formally known as Exova Jones Environmental Laboratory.

Samples are placed in a cooler with ice, secured with sample packaging and accompanied by a completed Chain of Custody (CoC) Form, and shipped directly to Element in Flintshire for analysis. Element are accredited by the United Kingdom Accreditation Service (UKAS) to 17025 standard, and UKAS monitor and externally audit the laboratory.

DGL have also been working to include the measurement of pH in the field at each sample location. Regular calibration of the instrument used is undertaken on site using both pH 4.01 and pH 7.01 buffer solutions and in accordance with DGL MultiParameter Meter Calibration Procedure². During readings,

¹ Dalradian Gold Ltd. 2020. Surface Water Sampling Procedure.

² Dalradian Gold Ltd. 2020. MultiParameter Meter Calibration Procedure.

the pH probe is fully immersed at all times in the flowing stream of water and up until stabilisation occurs³.

4.0 RESULTS

During this reporting period DGL have collected a total of 3 rounds of water samples from the discharge consent locations. This number of samples meets that required by the consent during the period. Sampling was undertaken on the 15th June 2023, 5th July 2023 and 10th August 2023.

QA/QC checks and factual reporting against the consent water quality thresholds for the discharge point are presented in the following sub-sections. Water quality results and thresholds are summarised in Appendix A, and all laboratory certificates are presented in Appendix B.

4.1 Quality Assurance/Quality Control

A number of QA/QC measures have been applied to water samples taken at all sites. A factory calibrated certificate for the YSI Professional Series Multiparameter probe used to measure pH in the field is provided in Appendix C.

4.1.1 Chain of Custody and confirmation of parameter analysis

A chain of custody (CoC) form was completed on each day of sampling. The CoC forms document possession of the samples from the time of sample collection to reception at the lab; provide primary instruction to the lab on the parameters to be analysed; and provide sample information relevant to the lab, such as sample name and sample date and time. Following each sampling event and prior to submission to the lab, the CoC was reviewed and checked for errors. In the events covered within the period there are no issues to report in this respect.

4.1.2 Holding times

In order to ensure holding times were not exceeded, DGL shipped samples directly to the laboratory. Certificates presented in Appendix B demonstrate that the samples in June and July were received by Element 1 day following sampling. Samples taken in August were delayed and were received within 4 days. Testing is recorded on CoC forms to have been scheduled for a standard 10-day turnaround time on all occasions.

4.1.3 Field Blanks

A total of three field blanks have been collected during the reporting period to assess potential contamination due to the sampling environment (e.g., dust getting into the sample bottle). Analysis of field blanks was undertaken by the laboratory alongside the specified water chemical analysis. Field blank results include total ambient conditions during sampling, but can also potentially incorporate bias due to laboratory methods (e.g., low-level constituents remaining in analytical equipment from a prior highly contaminated sample from another site) that are assessed by laboratory method blanks. The field blanks incorporated deionised water which theoretically should return no measurable values throughout the parameters analysed (with the omission of pH) unless there has been a source of contamination during sampling.

BOD at 1 mg/L, dissolved chromium at 0.4 µg/L and total zinc at 2.4 µg/L on the 15th of June were found to be present. These detected concentrations are less than five times the corresponding detection limit and are considered acceptable. All other parameters from blank samples during this sampling period were determined to be less than the limit of detection.

³ Dalradian Gold Ltd. 2020. MultiParameter Meter Sampling Procedure.

4.1.4 Duplicate Samples

Three duplicate samples were collected during the reporting period, and all from the discharge point (DCS2). Analysis of the duplicate samples was undertaken by Element and therefore alongside the remaining batch.

The measure of the reproducibility or precision of the chemical analysis has been quantified by calculating the Relative Percentage Difference (RPD) between parameter concentrations on the split sample submitted as a blind duplicate. The RPD has been calculated as follows:

$$RPD\% = \frac{|S - D|}{\frac{1}{2}(S + D)} \times 100$$

Where:

RPD = Relative Percentage Difference

S = Sample value of parameter; and

D = Duplicate value of parameter

Theoretically, duplicate samples should have identical chemical concentrations (i.e., RPD = 0). However, due to factors such as sample matrix heterogeneity, natural variations or variations due to sample collection, handling or analysis, a variation in chemical concentration may occur (i.e., RPD greater than 0).

It should be noted that the reproducibility of replicate analyses at concentrations near the method detection limit (MDL) can be poor, resulting in RPD values of greater than the desirable limits. Therefore, for duplicate concentrations greater than five times the detection limit, a relative percent difference value of $\pm 20\%$ is considered acceptable⁴. Given these considerations, for duplicate concentrations less than five times the detection limit, RPD has not been calculated.

An RPD value greater than the above project objectives can suggest variability has been introduced through sample collection, sample handling, or sample analysis.

From the duplicate samples taken, dissolved nickel on the 5th July was found to be outside the RPD when compared to the original sample. It should be noted that in this instance, both concentrations were low and approximately x10 less than the corresponding consent limit (20 $\mu\text{g/L}$).

4.1.5 Laboratory internal QA/QC

Element report data only if the laboratory is confident that the results are a true reflection of the samples analysed, and data is only reported as accredited when all the requirements of their Quality System have been met. Any failure in the Quality System is fully investigated and documented as deviating samples on certificates issued. If samples are received in a condition inappropriate to the requested analyses, for example if they are dispatched in inappropriate containers or at a temperature not commensurate with the requested analysis, any test results that may be compromised will be highlighted in a deviating samples report.

On all laboratory certificates returned, all samples sent for analysis were scheduled upon receipt. However, the sample holding time for BOD for all sample locations in August was exceeded. The concentrations of BOD were found to be below the level of detection (1 mg/L) for all samples, except DCS3 which had a concentration of 1mg/L. While these results are not accredited, all results are both

⁴ Zeiner, S.T. 1994. Realistic Criteria for the Evaluation of Field Duplicate Field Results. Proceedings of Superfund XV, November 29-December 1, 1994. Sheraton Washington Hotel, Washington, D.C.

consistently very low and consistent (at or less than the MDL (1 mg/L)) with the other two sampling rounds during the period.

4.1.6 Summary

As detailed above, there are minor QA/QC discrepancies regarding the dataset presented, but these are not considered to compromise the overall results findings within the context of the consent thresholds. Duplicate samples collected indicate a high level of data quality.

4.2 Factual Presentation of Data

All water quality results are presented in summary for each location in Appendix A. This includes a comparison of concentrations from the discharge point location (DCS2) against specific threshold values detailed within the consent.

During the reporting period, all three sample results from DCS2 are below the threshold values presented within the consent for all parameters.

Water quality obtained from the Curraghinalt Burn during the period can be summarised as follows:

- Total suspended solids varied between below detection (<10 mg/L) at both the up and downstream locations to 10 mg/L recorded at the upstream location;
- BOD concentrations ranged from below detection (<1 mg/L) at both the upstream and downstream locations to 1mg/L at the downstream location;
- Laboratory measured pH varied between a minimum of 6.9 pH units (recorded at the upstream location) and a maximum of 8.33 pH units (recorded at the downstream location);
- Dissolved zinc concentrations varied between 4.9 µg/L at the downstream location and 7.5 µg/L at the upstream location;
- Dissolved arsenic concentration ranged from below detection (<0.9 µg/L) the downstream location to a maximum of 6.3 µg/L at the upstream location;
- Dissolved lead concentrations were below detection (<0.4 µg/L) in all cases;
- Oil or grease has not been visible at the sample locations;
- The maximum dissolved iron concentration has been determined at 6.4871 mg/L at the upstream location; and
- The maximum total hardness has been recorded as 153 mg/L at the downstream location.

Water quality obtained from the Owenkillew River during the period can be summarised as follows:

- Total suspended solids were recorded below detection (<10 mg/L) at the upstream location and ranged from below detection (<10 mg/L) to 10mg/L at the downstream location;
- BOD concentrations ranged from below detection (<1 mg/L) at the upstream location to 2mg/L at the downstream location;
- Laboratory measured pH varies between a minimum of 6.62 pH units (recorded at the upstream location) and a maximum of 7.84 pH units (recorded at the upstream location);
- Oil or grease has not been visible at the sample locations;
- The maximum dissolved iron concentration has been determined at 1.7069 mg/L at the upstream location; and
- Dissolved zinc concentrations varied from 3.3 µg/L at the downstream location to 25.6 µg/L at the upstream location;
- The maximum total hardness has been recorded as 167 mg/L at the upstream location.

Appendix A
Presentation of Water Quality Results

DCS2 - Discharge Point

Parameter	Discharge Consent Threshold	Element Detection limit (typical)	Element 15/06/2023	Element Duplicate	Element 05/07/2023	Element Duplicate	Element 10/08/2023	Element Duplicate
Total Suspended Solids	50	10	<10	<10	<10	<10	<10	<10
Biochemical Oxygen Demand	10	1	<1	<1	<1	<1	<1	<1
pH	>6 & <9	-	8.22 (8.47)	8.32	8.37 (8.1)	8.33	8.31 (7.31)	8.34
Dissolved mercury ⁴	1.7	0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
Dissolved cadmium ⁴	0.7	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Dissolved iron ⁴	3.9	0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dissolved copper ⁴	16.2	3	5	4	<3	<3	6	7
Dissolved chromium ²	8.1	0.2	0.7	<0.2	0.2	<0.2	<0.2	<0.2
Chromium VI	N/A	2	<6	<6	<6	<6	<6	<6
Chromium III	N/A	2	<6	<6	<6	<6	<6	<6
Dissolved nickel ³	20	0.2	2.2	2.3	2.2	1.3	2.8	3.2
Dissolved arsenic ¹	50	0.9	3.5	2.8	<0.9	<0.9	<0.9	<0.9
Dissolved lead ³	7.2	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Total hardness as CaCO ₃	N/A	1	170	170	163	167	165	162
Dissolved zinc	490	1.5	4.8	4.7	6.2	6.1	6.6	6.7
Total zinc ⁴	33.8	1.5	5.3	5.3	4.4	4.5	5.6	6.1
Visible oil or grease	N/A	N/A	-	-	-	-	-	-

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are presented in mg/L, all other parameters are in µg/L.

^{1,2&3} Threshold from The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2011

¹ Annual mean value presented for 'Good Standard for rivers and freshwater lakes'

² Annual mean environmental standard for chromium III (4.7µg/L) plus annual mean environmental standard for chromium VI (3.4µg/L) presented for 'Good Standard for rivers and freshwater lakes'

³ Annual mean environmental standard (AA-EQS) value presented for priority substance and its compounds for all rivers and lakes

⁴ Department Specific

BOD over diluted, therefore result indicative only ^Δ Container with headspace

DCS1 - Curraghinalt Burn upstream

Parameter	Element	Element	Element	Element
	Detection limit (typical)	15/06/2023	05/07/2023	10/08/2023
Total Suspended Solids	10	<10	10	<10
Biochemical Oxygen Demand	1	<1	<1	<1
pH	-	7.78 (7.88)	7.56 (7.77)	6.9 (6.59)
Dissolved mercury	0.5	<0.5	<0.5	<0.5
Dissolved cadmium	0.03	<0.03	<0.03	0.36
Dissolved iron	0.0047	2.465	6.4871	3.2878
Dissolved copper	3	4	3	4
Dissolved chromium	0.2	<0.2	<0.2	<0.2
Chromium VI	2	<6	<6	<6
Chromium III	2	<6	<6	<6
Dissolved nickel	0.2	0.4	0.9	0.6
Dissolved arsenic	0.9	6.3	3.8	5.4
Dissolved lead	0.4	<0.4	<0.4	<0.4
Total hardness as CaCO ₃	1	31	26	19
Dissolved zinc	1.5	5.2	7.5	5.9
Total zinc	1.5	3.4	5.3	4
Visible oil or grease	N/A	-	-	-

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are

BOD over diluted, therefore result indicative only

△ Container with headspace

DCS3 - Curraghinalt Burn downstream

Parameter	Element	Element	Element	Element
	Detection limit (typical)	15/06/2023	05/07/2023	10/08/2023
Total Suspended Solids	10	<10	<10	<10
Biochemical Oxygen Demand	1	<1	<1	1
pH	-	8.33 (8.47)	7.91 (8.1)	8.08 (7.37)
Dissolved mercury	0.5	0.5	<0.5	<0.5
Dissolved cadmium	0.03	<0.03	<0.03	0.22
Dissolved iron	0.0047	0.2345	2.5491	1.4794
Dissolved copper	3	4	4	5
Dissolved chromium	0.2	<0.2	<0.2	0.2
Chromium VI	2	<6	<6	<6
Chromium III	2	<6	<6	<6
Dissolved nickel	0.2	1.6	<0.2	1.8
Dissolved arsenic	0.9	1.4	<0.9	2.4
Dissolved lead	0.4	<0.4	<0.4	<0.4
Total hardness as CaCO ₃	1	153	114	100
Dissolved zinc	1.5	4.9	5.3	5.6
Total zinc	1.5	6.9	5.4	6.2
Visible oil or grease	NA	-	-	-

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are

BOD over diluted, therefore result indicative only

△ Container with headspace

DCS4 - Owenkillew River upstream

Parameter	Element Detection limit (typical)	Element	Element	Element
		15/06/2023	05/07/2023	10/08/2023
Total Suspended Solids	10	<10	<10	<10
Biochemical Oxygen Demand	1	<1	<1	<1
pH	-	6.62 (7.82)	7.84 (7.67)	6.87 (6.36)
Dissolved mercury	0.5	<0.5	<0.5	<0.5
Dissolved cadmium	0.03	<0.03	<0.03	<0.03
Dissolved iron	0.0047	0.161	1.0972	1.7069
Dissolved copper	3	<3	<3	<3
Dissolved chromium	0.2	<0.2	<0.2	<0.2
Chromium VI	2	<6	<6	<6
Chromium III	2	<6	<6	<6
Dissolved nickel	0.2	0.5	<0.2	1.1
Dissolved arsenic	0.9	<0.9	1	1.3
Dissolved lead	0.4	<0.4	<0.4	<0.4
Total hardness as CaCO ₃	1	147	43	34
Dissolved zinc	1.5	3.8	25.6	7.9
Total zinc	1.5	2.3	5	19.8
Visible oil or grease	N/A	-	-	-

Notes:

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are presented in

BOD over diluted, therefore result indicative only

^ Container with headspace

DCS5 - Owenkillew River downstream

Parameter	Element Detection limit (typical)	Element	Element	Element
		15/06/2023	05/07/2023	10/08/2023
Total Suspended Solids	10	<10	10	<10
Biochemical Oxygen Demand	1	1	2	<1
pH	-	6.68 (8.05)	7.02 (7.41)	6.88 (6.48)
Dissolved mercury	0.5	<0.5	<0.5	<0.5
Dissolved cadmium	0.03	<0.03	<0.03	<0.03
Dissolved iron	0.0047	0.4755	1.1766	1.6005
Dissolved copper	3	<3	<3	<3
Dissolved chromium	0.2	<0.2	<0.2	0.2
Chromium VI	2	<6	<6	<6
Chromium III	2	<6	<6	<6
Dissolved nickel	0.2	<0.2	1.5	1
Dissolved arsenic	0.9	<0.9	3.1	3.4
Dissolved lead	0.4	<0.4	<0.4	<0.4
Total hardness as CaCO ₃	1	52	49	40
Dissolved zinc	1.5	4.2	8.8	6.7
Total zinc	1.5	3.8	3.8	3.3
Visible oil or grease	N/A	-	-	-

pH values presented in pH units. Values in brackets are field pH measurements. Total Suspended Solids, Biochemical Oxygen Demand, Total hardness & Dissolved iron concentrations are presented in

BOD over diluted, therefore result indicative only

^ Container with headspace

Appendix B
Laboratory Certificates

Dalradian Gold Ltd
3 Killybrack Rd
Omagh
United Kingdom
BT79 7DG



4225



Attention : ██████████

Date : 19th July, 2023

Your reference : DCS 20230614

Our reference : Test Report 23/9722 Batch 1 23/9724 Batch 1

Location : Curraghinalt

Date samples received :

Status : Final report

Issue : 1

Authorised By:

██████████

██████████ Sc
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Dalradian Gold Ltd
 Reference: DCS 20230614
 Location: Curraghinalt
 Contact: ██████████

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Job No.	23/9722	23/9722	23/9722	23/9722	23/9724	23/9724	23/9724						
EMT Sample No.	1-6	7-12	13-18	19-24	1-10	11-20	21-30						
Sample ID	DCS1	DCS2	DCS3	DCS7	DCS4	DCS5	DCS6						
Depth													
COC No / misc													
Containers	HNUP HN NB P BOD G	HNUP HN NB P BOD G	HNUP HN NB P BOD G	HNUP HN NB P BOD G	Y HN HNUP HN NB P BOD G	V HN HNUP HN NB P BOD G	V HN HNUP HN NB P BOD G						
Sample Date	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023						
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023						
										LOD/LOR	Units	Method No.	
Dissolved Arsenic #	6.3	3.5	1.4	2.8	<0.9	<0.9	<0.9			<0.9	ug/l	TM30/PM14	
Dissolved Cadmium #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			<0.03	ug/l	TM30/PM14	
Total Dissolved Chromium #	<0.2	0.7	<0.2	<0.2	<0.2	<0.2	0.4			<0.2	ug/l	TM30/PM14	
Dissolved Copper #	4	5	4	4	<3	<3	<3			<3	ug/l	TM30/PM14	
Total Dissolved Iron #	2.4650	<0.0047	0.2345	<0.0047	0.1610	0.4755	<0.0047			<0.0047	mg/l	TM30/PM14	
Dissolved Lead #	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4			<0.4	ug/l	TM30/PM14	
Dissolved Mercury #	<0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14	
Dissolved Nickel #	0.4	2.2	1.6	2.3	0.5	<0.2	<0.2			<0.2	ug/l	TM30/PM14	
Dissolved Zinc #	5.2	4.8	4.9	4.7	3.8	4.2	<1.5			<1.5	ug/l	TM170/PM14	
Total Zinc	3.4	5.3	6.9	5.3	2.3	3.8	2.4			<1.5	ug/l	TM170/PM14	
Total Hardness Dissolved (as CaCO3)	31	170	153	170	147	52	<1			<1	mg/l	TM30/PM14	
Hexavalent Chromium #	<6	<6	<6	<6	<6	<6	<6			<6	ug/l	TM38/PM0	
Total Dissolved Chromium III	<6	<6	<6	<6	<6	<6	<6			<6	ug/l	TM0/PM0	
BOD (Settled) #	<1	<1	<1	<1	<1	1	1			<1	mg/l	TM58/PM0	
pH #	7.78	8.22	8.33	8.32	6.62	6.68	5.68			<0.01	pH units	TM73/PM0	
Total Suspended Solids #	<10	<10	<10	<10	<10	<10	<10			<10	mg/l	TM37/PM0	

Please see attached notes for all abbreviations and acronyms

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/9722 23/9724

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 23/9722 23/9724

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM37	Modified methods - TSS: USEPA 100.2 (1993), EN672:2003 and APHA SMEWW 2540D:1999 22nd Edition; VSS: USEPA 1684 (Jan 2001), USEPA 160.4 (1971) and SMEWW 2540E:1999 22nd Edition. Gravimetric determination of Total Suspended Solids (TSS) and Volatile Suspended Solids (VSS). Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed at 105°C for TSS and 550°C for VSS.	PM0	No preparation is required.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes			
TM57	Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.	PM0	No preparation is required.	Yes			
TM58	APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am	PM0	No preparation is required.	Yes			

EMT Job No: 23/9722 23/9724

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM75	Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.				
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.				
Subcontracted	See attached subcontractor report for accreditation status and provider.						

Dalradian Gold Ltd
3 Killybrack Rd
Omagh
United Kingdom
BT79 7DG



4225



Attention : [REDACTED]

Date : 28th September, 2023

Your reference : DCS 20230705

Our reference : Test Report 23/10972 Batch 1 23/10977 Batch 1

Location : Curraghinalt

Date samples received :

Status : Final report

Issue : 3

Authorised By:

[REDACTED]

[REDACTED] BSc

Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Dalradian Gold Ltd
 Reference: DCS 20230705
 Location: Curraghinalt
 Contact: ██████████

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Job No.	23/10972	23/10972	23/10972	23/10977	23/10977	23/10977	23/10972						
EMT Sample No.	1,5-9	2,10-14	3,15-19	1,4-12	2,13-21	3,22-30	4,20-24						
Sample ID	DCS1	DCS2	DCS3	DCS4	DCS5	DCS6	DCS7						
Depth													
COC No / misc													
Containers	BOD HN HNLF NB P G	BOD HN HNLF NB P G	BOD HN HNLF NB P G	BOD Y HN HNLF N NB P G	BOD Y HN HNLF N NB P G	BOD Y HN HNLF N NB P G	BOD HN HNLF NB P G						
Sample Date	05/07/2023	05/07/2023	05/07/2023	05/07/2023	05/07/2023	05/07/2023	05/07/2023						
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	06/07/2023	06/07/2023	06/07/2023	06/07/2023	06/07/2023	06/07/2023	06/07/2023						
										LOD/LOR	Units	Method No.	
Dissolved Arsenic #	3.8	<0.9	<0.9	1.0	3.1	<0.9	<0.9			<0.9	ug/l	TM30/PM14	
Dissolved Cadmium #	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			<0.03	ug/l	TM30/PM14	
Total Dissolved Chromium #	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2			<0.2	ug/l	TM30/PM14	
Dissolved Copper #	3	<3	4	<3	<3	<3	<3			<3	ug/l	TM30/PM14	
Total Dissolved Iron #	6.4871	<0.0047	2.5491	1.0972	1.1766	<0.0047	<0.0047			<0.0047	mg/l	TM30/PM14	
Dissolved Lead #	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4			<0.4	ug/l	TM30/PM14	
Dissolved Mercury #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14	
Dissolved Nickel #	0.9	2.2	<0.2	<0.2	1.5	<0.2	1.3			<0.2	ug/l	TM30/PM14	
Dissolved Selenium #	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2			<1.2	ug/l	TM30/PM14	
Dissolved Zinc #	7.5	6.2	5.3	25.6	8.8	<1.5	6.1			<1.5	ug/l	TM170/PM14	
Total Zinc	5.3	4.4	5.4	5.0	3.8	<1.5	4.5			<1.5	ug/l	TM170/PM14	
Total Hardness Dissolved (as CaCO3)	26	163	114	43	49	<1	167			<1	mg/l	TM30/PM14	
Hexavalent Chromium #	<6	<6	<6	<6	<6	<6	<6			<6	ug/l	TM38/PM0	
Total Dissolved Chromium III	<6	<6	<6	<6	<6	<6	<6			<6	ug/l	TM0/PM0	
BOD (Settled) #	<1	<1	<1	<1	2	<1	<1			<1	mg/l	TM58/PM0	
pH #	7.56	8.37	7.91	7.84	7.02	5.87	8.33			<0.01	pH units	TM73/PM0	
Total Suspended Solids #	10	<10	<10	<10	10	<10	<10			<10	mg/l	TM37/PM0	

Please see attached notes for all abbreviations and acronyms

Client Name: Dalradian Gold Ltd
Reference: DCS 20230705
Location: Curraghinalt
Contact: Shane Feehan

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
No deviating sample report results for jobs 23/10972,23/10977						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.
 Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/10972 23/10977

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
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NA	Not applicable
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NDP	No Determination Possible
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+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 23/10972 23/10977

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM37	Modified methods - TSS: USEPA 100.2 (1993); EN672:2003 and APHA SMEWW 2540D:1999 22nd Edition; VSS: USEPA 1684 (Jan 2001), USEPA 160.4 (1971) and SMEWW 2540E:1999 22nd Edition. Gravimetric determination of Total Suspended Solids (TSS) and Volatile Suspended Solids (VSS). Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed at 105°C for TSS and 550°C for VSS.	PM0	No preparation is required.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes			
TM57	Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.	PM0	No preparation is required.	Yes			
TM58	APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am	PM0	No preparation is required.	Yes			

EMT Job No: 23/10972 23/10977

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM75	Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.				
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.				
Subcontracted	See attached subcontractor report for accreditation status and provider.						

Dalradian Gold Ltd
3 Killybrack Rd
Omagh
United Kingdom
BT79 7DG



4225



Attention : ██████████

Date : 29th August, 2023

Your reference : DCS 20230810

Our reference : Test Report 23/13386 Batch 1 23/13388 Batch 1

Location : Curraghinalt

Date samples received :

Status : Final report

Issue : 2

Authorised By:██████████
██████████
████████████████████
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Dalradian Gold Ltd
 Reference: DCS 20230810
 Location: Curraghinalt
 Contact: ██████████

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HN₃

EMT Job No.	23/13388	23/13388	23/13388	23/13386	23/13386	23/13386	23/13388						
EMT Sample No.	1-4	5-10	11-16	1-9	10-18	19-27	17-22						
Sample ID	DCS1	DCS2	DCS3	DCS4	DCS5	DCS6	DCS7						
Depth													
COC No / misc													
Containers	HNUF P BOD G	HN HNUF NB P BOD G	HN HNUF NB P BOD G	V H HN HNUF NB P BOD G	V H HN HNUF NB P BOD G	V H HN HNUF NB P BOD G	HN HNUF NB P BOD G						
Sample Date	10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023						
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023						
											LOD/LOR	Units	Method No.
Dissolved Arsenic #	5.4	<0.9	2.4	1.3	3.4	<0.9	<0.9				<0.9	ug/l	TM30/PM14
Dissolved Cadmium #	0.36	<0.03	0.22	<0.03	<0.03	<0.03	<0.03				<0.03	ug/l	TM30/PM14
Total Dissolved Chromium #	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2				<0.2	ug/l	TM30/PM14
Dissolved Copper #	4	6	5	<3	<3	<3	7				<3	ug/l	TM30/PM14
Total Dissolved Iron #	3.2878	<0.0047	1.4794	1.7069	1.6005	<0.0047	<0.0047				<0.0047	mg/l	TM30/PM14
Dissolved Lead #	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4				<0.4	ug/l	TM30/PM14
Dissolved Mercury #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				<0.5	ug/l	TM30/PM14
Dissolved Nickel #	0.6	2.8	1.8	1.1	1.0	<0.2	3.2				<0.2	ug/l	TM30/PM14
Dissolved Zinc #	5.9	6.6	5.6	7.9	6.7	<1.5	6.7				<1.5	ug/l	TM170/PM14
Total Zinc	4.0	5.6	6.2	19.8	3.3	<1.5	6.1				<1.5	ug/l	TM170/PM14
Total Hardness Dissolved (as CaCO3)	19	165	100	34	40	<1	162				<1	mg/l	TM30/PM14
Hexavalent Chromium #	<6	<6	<6	<6	<6	<6	<6				<6	ug/l	TM38/PM0
Total Dissolved Chromium III	<6	<6	<6	<6	<6	<6	<6				<6	ug/l	TM0/PM0
BOD (Settled) #	<1	<1	1	<1	<1	<1	<1				<1	mg/l	TM58/PM0
pH #	6.90	8.31	8.08	6.87	6.88	7.21	8.34				<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10	<10	<10	<10				<10	mg/l	TM37/PM0

Please see attached notes for all abbreviations and acronyms

Client Name: Dalradian Gold Ltd
Reference: DCS/SW 20230810
Location: Curraghinalt
Contact: ██████████

Matrix : Liquid

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
23/13386	1	DCS4/SW05		1-9	BOD	Sample holding time exceeded
23/13386	1	DCS5/SW06		10-18	BOD	Sample holding time exceeded
23/13386	1	DCS6/SW20		19-27	BOD	Sample holding time exceeded
23/13388	1	DCS1		1-4	BOD	Sample holding time exceeded
23/13388	1	DCS2		5-10	BOD	Sample holding time exceeded
23/13388	1	DCS3		11-16	BOD	Sample holding time exceeded
23/13388	1	DCS7		17-22	BOD	Sample holding time exceeded

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 23/13386 23/13388

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

EMT Job No: 23/13386 23/13388

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM37	Modified methods - TSS: USEPA 100.2 (1993), EN672:2003 and APHA SMEWW 2540D:1999 22nd Edition; VSS: USEPA 1684 (Jan 2001), USEPA 160.4 (1971) and SMEWW 2540E:1999 22nd Edition. Gravimetric determination of Total Suspended Solids (TSS) and Volatile Suspended Solids (VSS). Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed at 105°C for TSS and 550°C for VSS.	PM0	No preparation is required.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes			
TM57	Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.	PM0	No preparation is required.	Yes			
TM58	APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am	PM0	No preparation is required.	Yes			

EMT Job No: 23/13386 23/13388

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM75	Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			
TM76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.				
Subcontracted	See attached subcontractor report for accreditation status and provider.						

Appendix C

YSI MultiParameter Meter Calibration Certificate

YSI Pro Calibration

YSI & Cable Serial Numbers: 17L101825 - 19H10078

	Reading	Target	Acceptable	Pass	Lot No:
Temp	14.6	Ref: 14.8	± 1°C	✓	N/A
pH7mv	1.4	0.0	0 ± 50	✓	22C1
pH4mv	172.6	177	177 ± 50	✓	21G1
pH Slope	174.0	177	162 - 180	✓	N/A
Cond. Cell Constant	5.0	5	4.6 - 5.4	✓	21F1
Redox Offset	4.8	0.0	±50.0	✓	21J1
DO Gain	Pass or fail determined by the meter			✓	N/A

All parameters were within acceptable range on the day of despatch; however we do recommend that the instrument is calibrated daily to ensure accurate readings.

* Calibrated to manufacturers standards

Signed: 

Date: 04/11/22

Name: 

Cross checked contents initials: 
