Amaroq Minerals 3 October 2022

TECHNICAL MEMORANDUM

DATE 3 October 2022 **Reference No.** 21367213.CO4.7.B0

TO Joan Plant

Amarog Minerals

CC

FROM Gareth Digges La Touche EMAIL gareth.diggeslatouche@wsp.com

NALUNAQ GOLD MINE, GREENLAND: GEOCHEMICAL TESTING RESULTS FROM 2022 TAILINGS ANALYSIS PROGRAMME (SEPTEMBER 2022 UPDATE)

1.0 INTRODUCTION

WSP Golder (WSP UK Ltd) is pleased to submit this technical memorandum to AEX regarding an ongoing geochemical characterisation programme on tailings samples from the Nalunaq Gold Project (the Project). Kinetic testing of the tailings has been requested by The Environmental Agency for Mineral Resource Activities (EAMRA) following a programme of static testing in 2021. The kinetic humidity cell tests are completed up to Week 26 for physicochemical parameters, and Week 25 for metals. The static test programme results and intermittent bottle roll test results have been previously reported on in April and June 2022. This technical memorandum summarises kinetic testing results received to date, including recommendations.

2.0 SAMPLE INFORMATION AND TEST METHODS

Tailings samples were generated in 2020 and 2021 for testing at SGS Lakefield in Ontario, Canada. One historic flotation sample was provided and 7 rock core samples were subjected to gravity and flotation processing, generating an additional 14 samples (7 gravity, 7 flotation). It is noted that the Project intends to move forward with flotation processing methodology for the mine planning, however, sometimes discharge of gravity tailings to the Dry Tailings Stack Facility (DTSF) may be required due to operational constraints. Therefore, both flotation and gravity tailings are being tested using static and kinetic test methods to assess the range of variability in these tailings types for future planning.

In early 2022, four composite samples were prepared from the available samples as part of the current phase of work to allow for sufficient sample volume for a range of further testing (Gr3+4, Fl_3+4, Gr_6+7+8, Fl_6+7+8; see Table 1). In addition, four individual samples (Gr_2, Fl_2, Gr_5, Fl_5; see Table 1) were also submitted for further testing.

Updated static testing was recommended to assess the characteristics of the samples after prolonged storage and the bulk properties of the composite samples generated for this programme. Humidity cell testing was recommended to assess the drainage chemistry of the dry stack filtered tailings. Bottle roll testing was recommended on the basis of the site setting, as the test method is suitable for assessing solute release rates from tailings that end up in an aqueous setting subject to mechanical abrasion (such as tailings in a stream). The current status of testing results at the time of reporting (analytical results to September 2022) is summarised in Table 1.



1

Joan Plant Reference No. 21367213.CO4.7.B0

Amaroq Minerals 3 October 2022

Table 1: Nalunaq Tailings Test Work Programme as of September 2022

Sample ID	Sample Name	Sample Details	Humidity Cell Option B (Ambient)	Bottle Roll Test	Static Testing – ABA, NAG test, Trace Element Analysis
Gr_6+7+8	Gravity 'South Block' Composite	Composite of GRG-6 Knelson TI, GRG-7 Knelson TI and GRG-8 Knelson TI	Completed to Week 26.	100% complete	100% complete
FI_6+7+8	Flotation 'South Block' Composite	Composite of F6 Ro TI, F7 Ro TI and F8 Ro TI	Completed to Week 26.	100% complete	100% complete
Gr_3+4	Gravity MB/TB Composite	Composite of GRG-3 Knelson TI and GRG-4 Knelson TI	Completed to Week 26.	100% complete	100% complete
FI_3+4	Flotation MB/TB Composite	Composite of F3 RoTl and F4 RoTl	Completed to Week 26.	Insufficient sample, not tested	100% complete
Gr_2	Gravity Sample 2	GRG-2 Knelson TI	Completed to Week 26.	100% complete	100% complete
Fl_2	Flotation Sample 2	F2 Ro TI	Completed to Week 26.	100% complete	100% complete
Gr_5	Gravity Sample 5	GRG-5 Knelson TI	Completed to Week 26.	100% complete	100% complete
FI_5	Flotation Sample 5	F5 Ro TI	Completed to Week 26.	Insufficient sample, not tested	100% complete

2.1 Humidity Cell Test Methods

All samples (Table 1) were submitted for humidity cell testing using ASTM Option B, ambient air, with SGS Lakefield in Ontario, Canada. One kilogram of sample was loaded into the standard humidity cell (8" ID by 4" height for tailings), with a minimum sampling period of 20 weeks to be completed. The sampling period was extended beyond week 20 based on the preliminary results received.

As per the ASTM D5744 Option B protocols, the lids of the humidity cells are not fitted with an NPT fitting and the test cells are not subjected to the dry air/humid air cycles. Instead, the centre hole is left open to allow for exchange of ambient air during the 6-day portion of the weekly cycle. This test method was chosen as it is more representative of the depositional environment. On the last day of the cycle, 1000 mL of deionized (DI) water is added through the top of the cell and allowed to flood the cell for one hour. Leachate is collected after the flooding, the volume of the recovered leachate is recorded, and the solution is submitted for analysis of general parameters (pH, acidity, alkalinity, electrical conductivity and sulphate), and a suite of dissolved metals (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, P, Pb, Sb, Se, Si, Sn, Sr, Th, Ti, Tl, U, V, W, Y, Zn and Hg).



3.0 RESULTS

3.1 Summary of Acid Base Accounting Results

The static testing results received including chemical composition and acid base accounting indicate that on the basis of assessment against Neutralisation Potential Ratio (NPR), Net Neutralisation Potential (NNP) and Net Acid Generation (NAG) pH all samples are likely to be non-acid forming (NAF). The NNP indicates that for some flotation and gravity samples the acid generation potential is uncertain.

Table 2: Summary of Screening Assessment Results for Acid Rock Drainage Potential

Sample ID	Neutralisation Potential Ratio (NPR) Assessment	Net Neutralisation Potential (NNP) Assessment	Net Acid Generation (NAG) Assessment
Flotation			
Fl_2	NAF	NAF	NAF
FI_3+4	NAF	Uncertain	NAF
FI_5	NAF	NAF	NAF
FI_6+7+8	NAF	Uncertain	NAF
Gravity			
Gr_2	NAF	NAF	NAF
Gr_3+4	NAF	Uncertain	NAF
Gr_5	NAF	Uncertain	NAF
Gr_6+7+8	NAF	Uncertain	NAF

3.2 Kinetic Testing

3.2.1 Water Quality Criteria Comparison

Leachate results from short and long-term testing were screened against water quality guideline values as outlined in Table 3. Comparison against water quality guideline values is provided as an indication of preliminary constituents of potential concern (COPCs) to be considered for future assessment. Exceedance in kinetic testing does not necessarily translate directly to exceedances in the natural environment, as environmental behaviour in the depositional environment is subject to a number of factors.

Freshwater Greenland Water Quality Criteria (GWQC) values took precedence where one or more guideline values were available, followed by the Danish Environmental Quality Standards (EQS), and lastly the European Union Drinking Water Standards (EU DWS) where no values are listed for the GWQC or EQS (Table 3).

Table 3: Summary of Water Quality Guidelines

Parameter	Units	Freshwater GWQC	Danish EQS ¹	EU DWS
Aluminium, Al	mg/L	-	-	0.2
Antimony, Sb	mg/L	-	0.133	0.01
Arsenic, As	mg/L	0.004	0.0043	0.01



Parameter	Units	Freshwater GWQC	Danish EQS ¹	EU DWS
Barium, Ba	mg/L	-	0.0093	-
Boron, B	mg/L	-	-	1.5
Cadmium, Cd	mg/L	0.0001	<0.0008	0.005
Chloride, Cl	mg/L	-	-	250
Chromium, Cr	mg/L	0.003	0.0034	0.025
Cobalt, Co	mg/L	-	0.00028	-
Copper, Cu	mg/L	0.002	-	-
Iron, Fe	mg/L	0.3	-	0.2
Lead, Pb	mg/L	0.001	-	0.005
Manganese, Mn	mg/L	-	0.15	0.05
Mercury (total), Hg	mg/L	0.00005	-	-
Nickel, Ni	mg/L	0.005	0.0023	0.02
Phosphorus, P	mg/L	0.02	-	-
Selenium, Se	mg/L	-	-	0.02
Sodium, Na	mg/L	-	-	200
Sulphate, SO ₄ 2-	mg/L	-	-	250
Thallium, TI	mg/L	-	0.00048	-
Uranium, U	mg/L	-	-	0.03
Zinc, Zn	mg/L	0.01	0.0078	-

¹General Quality Requirements for Fresh Water

3.2.2 Humidity Cell Tests – Early Leachate Results (Weeks 0-5)

Laboratory results from Humidity Cell Tests are shown in Table A.1 to Table A.16 and Figure A.1 to A.38, in Appendix A. Laboratory results below the limit of detection (LOD) are presented at their respective limits of detections in the graphs contained within Appendix A.

Leachate results obtained in the first few weeks of testing are typically interpreted separately from the longerterm leachate results, as they generally represent the flushing of pre-existing oxidation products and highly soluble mineral phases from the surface of the tested material.

Early term leachate results show generally circum-neutral to alkaline pH conditions during the first five weeks (Figure A.1). Flotation samples show more alkaline pH during the initial three weeks (pH 7.98 to 8.86; FI_6+7+8),



when compared to the gravity samples which have a lower pH range of pH 7.55 (Gr_3+4) to 8.02 (Gr_5). From Week 3, Gr_2 shows an increase in pH up to Week 4 where other gravity samples Gr_6+7+8, and Gr_3+4 also increase before returning to pH values generally lower than in flotation samples in Week 5 (Figure A.1).

Acidity is only measured in one sample (GR_2) in week 0 and is less than detect in all other samples over the testing period (Fig. A.3). Conductivity falls rapidly from Week 0 to Week 2 before stabilising. The alkalinity is higher in flotation samples (except Fl_6+7+8) and shows a decrease across all the samples between Week 0 and Week 5 (Fig. A.4).

Elevated concentrations above guideline values, as listed in Table 3, for sulphate (SO₄), aluminium (Al), arsenic (As), cobalt (Co), copper (Cu), magnesium (Mg), manganese (Mn), nickel (Ni), and phosphorus (P) were recorded in the first few weeks of testing.

- Sulphate (SO₄): Sample Gr_5 has an initially high concentration of 340 mg/L exceeding the European Union Drinking Water Standards (EU DWS), with concentrations of sulphate higher in all gravity samples higher than those in flotation samples (Figure A.5). Both gravity and flotation samples show a decrease in sulphate concentrations between Week 0 and Week 3 before becoming more stable across all samples (Figure A.5).
- Aluminium (Al): Flotation samples have higher concentrations of aluminium than gravity samples (Figure A.11). Gravity samples show a decreasing trend in aluminium concentrations between Week 0 to 5 whilst flotation samples (except FI_6+7+8) show an increasing trend with samples FI_3+4, and FI_5 both exceeding the EU DWS.
- Arsenic (As): Flotation samples are generally higher in arsenic compared to gravity samples (Figure A.13) with the exception of FI_6+7+8. All samples are above the Greenland Water Quality Criteria (GWQC) value of 0.004 mg/L, although all samples additionally show a trend of decreasing concentrations towards Week 5. Arsenic was identified as a COPC from static testing due to its crustal abundance.
- Cobalt (Co): Five samples are initially above the Danish Environmental Quality Standards (EQS) value of 0.00028 mg/L from Week 0 including Fl_2, Fl_3+4, Fl_5, Gr_2, and Gr_5 (Figure A.20). The samples generally show a decreasing trend in concentrations towards week 5, when all samples fall below the Danish EQS value.
- Copper (Cu): Three samples exceed the GWQC value of 0.002 mg/L from Week 0, including FI_3+4, Gr_5, and Gr_3+4 (Figure A.21). There is a decreasing trend in concentrations towards Week 4 for all samples from which the concentrations are more stable, with all samples under the GWQC value from Week 2.
- Manganese (Mn): One sample (Gr_5) initially exceeds the EU DWS value of 0.05 mg/L in Week 0 but decreases in Week 2 to beneath the EU DWS along with all other samples (Figure A.26).
- Nickel (Ni): Samples Gr_2 and Gr_5 exceed the GWQC value of 0.005 mg/L initially, but both nickel concentrations in both samples fall beneath the GWQC value from Week 2 for Gr_5 and Week 3 for Gr_5 (Figure A.28).
- Phosphorus (P): Concentrations of phosphorus are elevated above the GWQC value of 0.02 mg/L in all flotation samples from week 0, decreasing in concentration towards Week 4 when all samples are below the GWQC limit (Figure A.6). Sample Gr_6+7+8 additionally exceeds the GWQC value in Week 2.

Generally initial high concentrations in most parameters decrease towards Week 5, representing the flushing of pre-existing oxidation products and highly soluble mineral phases from the surface of the tested material.



Beryllium (Be) has a notable spike in concentrations at Week 4 in all samples, which otherwise are at the limit of detection. This may represent an analytical error.

3.2.3 Later Leachate Results (Week 5 onwards)

Laboratory results from Humidity Cell Tests are shown in Table A.1 to Table A.16 and Figure A.1 to A.38, in Appendix A. Laboratory results below the limit of detection (LOD) are presented at their respective limits of detections in the graphs contained within Appendix A.

Later term leach results (week five onwards) are interpreted to be more indicative of long-term water quality that can be expected after periods of weathering and leaching. The leachate results to date (September 2022) are discussed in this section, up to Week 25 for metals, and Week 26 for physicochemical parameters.

The pH between Weeks 5 and 12 remains relatively steady as in earlier weeks, in the circum-neutral to alkaline range. Some variations in the pH are noted after Week 12 up to Week 26, for example, Gr_2 which fluctuates between neutral and alkaline pH. Conductivity is stable between Week 5 and Week 26 (Figure A.1) and there is no acidity detected (Figure A.3). Alkalinity is steady in the gravity samples, whilst in the flotation samples alkalinity continues to decrease slowly to approximately Week 14 before stabilising (Figure A.4).

Sulphate concentrations are relatively stable after Week 5 and remain below the recommended EU DWS limit throughout the sampling period to date (Figure A.5). Flotation sample Fl_6+7+8 shows a notable increase at Week 24, whilst gravity samples Gr_5 and Gr_6+7+8 show a decrease at the same sampling period. Phosphorus concentrations also remain more stable after Week 5, with all samples falling below the GWQC value of 0.02 mg/L by Week 10 (Figure A.6). However, the concentrations of phosphorus all increase at Week 25, and exceed or are at the GWQC in samples Fl_3+4, Fl_5, Fl_6+7+8, and Gr_2.

Metal concentrations were measured every 5 weeks and are generally lower and steadier than they were in the earlier weeks. Only aluminium (Al), arsenic (As), cobalt (Co), magnesium (Mg), and mercury (Hg) exceed recommended limits in one or more samples in the period up to Week 25.

- Aluminium (Al): Flotation samples continue to have higher concentrations of aluminium than gravity samples (Figure A.11). Gravity samples show a steadier concentration in aluminium from Week 5 whilst flotation samples Fl_3+4 and Fl_5 show an increase in concentration, with both exceeding the EU DWS through to Week 25.
- Arsenic (As): Flotation samples continue to be higher in arsenic compared to gravity samples (Figure A.13) with the exception of Fl_6+7+8. All samples are above the Greenland Water Quality Criteria (GWQC) value of 0.004 mg/L, although arsenic concentrations in all samples continue to decrease towards Week 10 and generally stabilising from Week 15.
- Cobalt (Co): From Week 5, concentrations of cobalt are more stable close to the Danish EQS. However, sample Gr_2 shows a small increase in concentration at Week 10 pushing it above the Danish EQS value of 0.00028 mg/L, before it decreases below the Danish EQS by Week 15 (Figure A.20).
- Mercury (Hg): Mercury concentrations are generally low and stable, however, at Week 15 there is a spike in concentrations in samples Gr_5, Gr_6+7+8, Fl_3+4, Fl_5, and Fl_6+7+8. Sample Fl_6+7+8 exceeds the GWQC concentration of 0.00005 mg/L for mercury, before decreasing again by Week 20.

Zinc, which was mobilised in the Intermittent Bottle Roll tests, is below the detection limit in early and later stage humidity cell leachates (Figure A.38).



4.0 PRELIMINARY SOURCE TERM COMPARISON

Results of short-term leaching tests on processed gravity and flotation tailings for eight CoPCs were used as a source term for a previous seepage assessment (Golder, 2021). Zinc and cadmium concentrations were taken as 50% of the method detection limit in these source terms as a conservative assumption. These 2021 source terms are compared here with the minimum, maximum, and average results of the Week 10 and Week 25 HCT tests presented in Appendix A of this report, as humidity cell leachates are considered more representative of longer-term seepage quality.

The maximum Week 10 concentrations in the HCT tests for the CoPCs are generally lower than the Golder (2021) source term values previously used for all COPCs except arsenic in the flotation tailings and cadmium in the gravity tailings (Table 4). Although the maximum concentration for arsenic (0.0835 mg/L) in the Week 10 flotation HCT exceeds the Golder (2021) source term concentration of 0.0646 mg/L, the average arsenic value across the four samples analysed is less than the concentration used in the Golder (2021) source term. Similarly, the maximum concentration for cadmium (0.00003 mg/L) in the week 10 gravity HCT exceeds the Golder (2021) source term concentration of 0.000015 mg/L but the average concentration is less.

All Week 25 concentrations are lower than the Golder (2021) source terms values previously used. Zinc concentrations in humidity cell leachates are at the limit of detection as a conservative assumption but are lower than the Golder (2021) source term.

Table 4: Source term comparison, Golder 2022 vs Golder 2021

	om compar	,								
		Units	As	Cd	Co	Cr	Cu	Fe	Ni	Zn
Gravity Tailings Sour (Golder, 2021)	rce Term	mg/L	0.154	0.000015	0.00115	0.00908	0.0064	0.909	0.0037	0.01
	Maximum	mg/L 0.0188 0.00003		0.00003	0.000312	0.00048	0.0008	0.035	0.0019	0.002
Gravity Tailings HCT (Week 10)	Average	mg/L	0.0103	0.0000145	0.00018475	0.000355	0.000475	0.02725	0.001175	0.002
nci (week iu)	Minimum	mg/L	0.006	0.000006	0.000118	0.00025	0.0003	0.019	0.0007	0.002
	Maximum	mg/L	0.0263	0.00001	0.000239	0.00063	0.0006	0.034	0.0011	0.002
Gravity Tailings HCT (Week 25)	Average	mg/L	0.012	0.000012	0.000144	0.0003875	0.000475	0.02675	0.0007	0.002
noi (week 25)	Minimum	mg/L	0.0053	0.000012	0.000071	0.00015	0.0004	0.014	0.0003	0.002
Flotation Tailings So (Golder, 2021)	urce Term	mg/L	0.0646	0.000015	0.0014	0.00726	0.0053	1.13	0.0035	0.01
Flotation Tailings	Maximum	mg/L	0.0835	0.000008	0.000115	0.00067	0.0005	0.095	0.0008	0.002
HCT (Week 10)	Average	mg/L	0.0533	0.0000065	0.000072	0.0004725	0.0004	0.042	0.0006	0.002
	Minimum	mg/L	0.0115	0.000005	0.000049	0.00034	0.0003	0.011	0.0003	0.002
	Maximum	mg/L	0.0456	0.000005	0.000072	0.00045	0.0004	0.075	0.0002	0.002
Flotation Tailings HCT (Week 25)	Average	mg/L	0.028475	0.000005	3.78E-05	0.000345	0.00035	0.03275	0.00015	0.002
noi (week 25)	Minimum	mg/L	0.0074	0.000005	0.000025	0.00023	0.0003	0.012	0.0001	0.002

NOTE: Measurements at the limit of detection are at value.

Values in **bold & italics** exceed the Golder 2021 source term concentration.



Based on the results of the HCT tests it is considered that the source term used for the risk assessment (Golder, 2021) remains valid given that the average concentrations of all the HCT tests are below the assumptions used for the assessment of risks to the Kirkespir River.

5.0 SUMMARY

The static testing results received including chemical composition and acid base accounting indicate that on the basis of assessment against NP and NAG pH all samples are likely to be NAF. The NNP indicates that for some flotation and gravity samples the acid generation potential is uncertain.

The metal leaching and acid rock drainage potential have been assessed through ongoing kinetic testing. Results to date (September 2022) show that the pH values are neutral to alkaline. Some common CoPCs are identified between both the HCT and Intermittent Bottle Roll Tests, including aluminium, arsenic, cobalt, copper, magnesium, nickel, and phosphorus.

Sulphate and manganese also initially exceed limits in the HCT tests before decreasing in concentration. Flotation samples are elevated in phosphorus and aluminium in both the HCT and Intermittent Bottle Roll Tests when compared to gravity samples. Arsenic, as with the static testing, is consistently elevated in both the HCT and Intermittent Bottle Roll Tests.

Later stage HCT results indicate that pH remains neutral to alkaline in the results up to Week 26, with the metals becoming more stable in concentration. Fewer metals exceed limits, with only aluminium, arsenic, cobalt, and mercury (one sample only) exceeding limits.

It should be noted that results in excess of the selected Water Quality Criteria does not indicate that there will be a negative impact on the environment, as the potential for an impact is controlled by presence and characteristics of any transport pathways (seepage from the tailings facility and subsequent transport in groundwater) from the contaminant source (tailings) and the presence and characteristics of any receptor (in this case the Kirkespir River).

It is considered that the source term assumptions used in the seepage risk assessment (Golder, 2021) remain valid on the basis that the average concentrations of all the HCT tests at week 25 are below the assumptions used for the assessment of risks to the Kirkespir River.

6.0 RECOMMENDATIONS

On the basis of stable humidity cell leachate results and static testing showing that all humidity cells are considered NAF based on Neutralisation Potential Ratio (NPR) and Net Acid Generation (NAG) test results, it is recommended to terminate all the humidity cells at week 30. The week 25 results presented in this memorandum can be used for purposes of assessment in support of the mine planning and design and it is recommended that the current seepage risk assessment results reported by Golder (2021) remain the basis for the assessment of the environmental impact on the Kirkespir River.



7.0 REFERENCES

- AMIRA International Ltd. 2002. ARD Test Handbook Prediction and Kinetic Control of Acid Mine Drainage. Environmental Geochemistry International Pty. Ltd. and Ian Wark Institute, University of South Australia.
- ASTM International. E1915 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur, and Acid-Base Characteristics, ASTM International, West Conshohocken, PA, 2013, www.astm.org
- Golder, 2021. Nalunaq Gold Project: Tailings Seepage Assessment. Report reference 20136781.608.A3, dated 20th January 2021.
- INAP (International Network for Acid Prevention). 2014. *Global Acid Rock Drainage Guide (GARD Guide)*. http://www.gardguide.com/
- MEND (Mine Environment Neutral Drainage). 2009. *Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials*. Report No 1.20.1, CANMET Mining and Mineral Sciences Laboratories, Smithers, British Columbia, Canada, December 2009.
- Price, W.A. 1997. Draft Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Mine sites in British Columbia. Reclamation Section, Energy and Minerals Division, April 1997.
- Smith, K.S. and H.L.O. Huyck. 1999. *An Overview of the Abundance, Relative Mobility, Bioavailability and Human Toxicity of Metals*. In: Filipek, L.H. and G.S. Plumlee (Eds). 1999. *Reviews in Economic Geology, Volume 6A, The Environmental Geochemistry of Mineral Deposits* Part A: Processes, techniques and Health Issues, Society of Economic Geologists, Inc.

WSP UK Ltd

Senior Geochemist

AR/MBD/TR/GDLT/kc

M Burkwalter Davis

Gareth Digges La Touche

Technical Director (Hydrogeology & Mining)



APPENDIX A

Humidity Cell Tests (HCT) (Weeks 0 to 26)

1

LIST OF FIGURES

Figure A.1. Time series of pH results from Humidity Cell Tests.	4
Figure A.2. Time series of Conductivity results from Humidity Cell Tests.	4
Figure A.3. Time series of Acidity results from Humidity Cell Tests.	5
Figure A.4. Time series of Alkalinity results from Humidity Cell Tests.	5
Figure A.5. Time series of Sulphate (SO ₄) results from Humidity Cell Tests	6
Figure A.6. Time series of Phosphorus (P) results from Humidity Cell Tests.	6
Figure A.7. Time series of Calcium (Ca) results from Humidity Cell Tests.	7
Figure A.8. Time series of Magnesium (Mg) results from Humidity Cell Tests	7
Figure A.9. Time series of Potassium (K) results from Humidity Cell Tests.	8
Figure A.10. Time series of Sodium (Na) results from Humidity Cell Tests.	8
Figure A.11. Time series of Aluminium (AI) results from Humidity Cell Tests.	9
Figure A.12. Time series of Antimony (Sb) results from Humidity Cell Tests.	9
Figure A.13. Time series of Arsenic (As) results from Humidity Cell Tests.	10
Figure A.14. Time series of Barium (Ba) results from Humidity Cell Tests	10
Figure A.15. Time series of Beryllium (Be) results from Humidity Cell Tests	11
Figure A.16. Time series of Bismuth (Bi) results from Humidity Cell Tests	11
Figure A.17. Time series of Boron (B) results from Humidity Cell Tests	12
Figure A.18. Time series of Cadmium (Cd) results from Humidity Cell Tests	12
Figure A.19. Time series of Chromium (Cr) results from Humidity Cell Tests	13
Figure A.20. Time series of Cobalt (Co) results from Humidity Cell Tests	13
Figure A.21. Time series of Copper (Cu) results from Humidity Cell Tests.	14
Figure A.22. Time series of Iron (Fe) results from Humidity Cell Tests.	14
Figure A.23. Time series of Lead (Pb) results from Humidity Cell Tests.	15
Figure A.24. Time series of Lithium (Li) results from Humidity Cell Tests	15
Figure A.25. Time series of Manganese (Mn) results from Humidity Cell Tests	16
Figure A.26. Time series of Mercury (Hg) results from Humidity Cell Tests	16
Figure A.27. Time series of Molybdenum (Mo) results from Humidity Cell Tests	17
Figure A.28. Time series of Nickel (Ni) results from Humidity Cell Tests	17
Figure A.29. Time series of Selenium (Se) results from Humidity Cell Tests.	18
Figure A.30. Time series of Silicon (Si) results from Humidity Cell Tests	18
Figure A.31. Time series of Silver (Ag) results from Humidity Cell Tests.	19
Figure A.32. Time series of Strontium (Sr) results from Humidity Cell Tests	19
Figure A.33. Time series of Tin (Sn) results from Humidity Cell Tests.	20
Figure A.34. Time series of Titanium (Ti) results from Humidity Cell Tests	20

Figure A.35. Time series of Thallium (TI) results from Humidity Cell Tests	21
Figure A.36. Time series of Uranium (U) results from Humidity Cell Tests	21
Figure A.37. Time series of Vanadium (V) results from Humidity Cell Tests	22
Figure A.38. Time series of Zinc (Zn) results from Humidity Cell Tests	22
LIST OF TABLES	
Table A.1: Summary of HCT results for Sample FI_2 (Weeks 0 – 13)	23
Table A.2: Summary of HCT results for Sample FI_2 (Weeks 14 – 26)	26
Table A.3: Summary of HCT results for Sample FI_3+4 (Weeks 0 – 13)	29
Table A.4: Summary of HCT results for Sample FI_3+4 (Weeks 14 – 26)	32
Table A.5: Summary of HCT results for Sample FI_5 (Weeks 0 – 13)	35
Table A.6: Summary of HCT results for Sample FI_5 (Weeks 14 – 26)	38
Table A.7: Summary of HCT results for Sample FI_6+7+8 (Weeks 0 – 13)	41
Table A.8: Summary of HCT results for Sample FI_6+7+8 (Weeks 14 – 26)	44
Table A.9: Summary of HCT results for Sample Gr_2 (Weeks 0 – 13)	47
Table A.10: Summary of HCT results for Sample Gr_2 (Weeks 14 – 26)	50
Table A.11: Summary of HCT results for Sample Gr_3+4 (Weeks 0 – 13)	53
Table A.12: Summary of HCT results for Sample Gr_3+4 (Weeks 14 – 26)	56
Table A.13: Summary of HCT results for Sample Gr_5 (Weeks 0 – 13)	59
Table A.14: Summary of HCT results for Sample Gr_5 (Weeks 14 – 26)	62
Table A.15: Summary of HCT results for Sample Gr_6+7+8 (Weeks 0 – 13)	65
Table A.16: Summary of HCT results for Sample Gr_6+7+8 (Weeks 14 – 26)	68

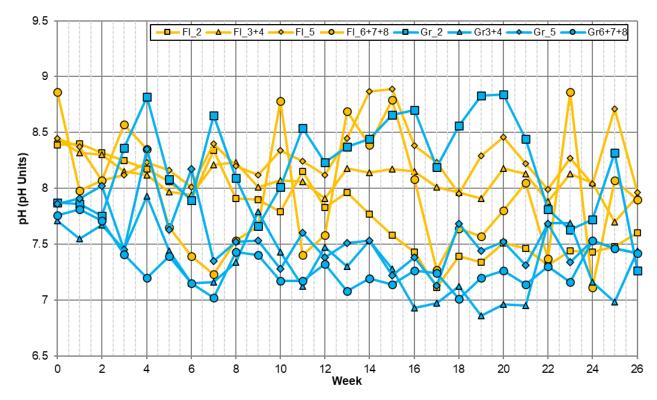


Figure A.1. Time series of pH results from Humidity Cell Tests.

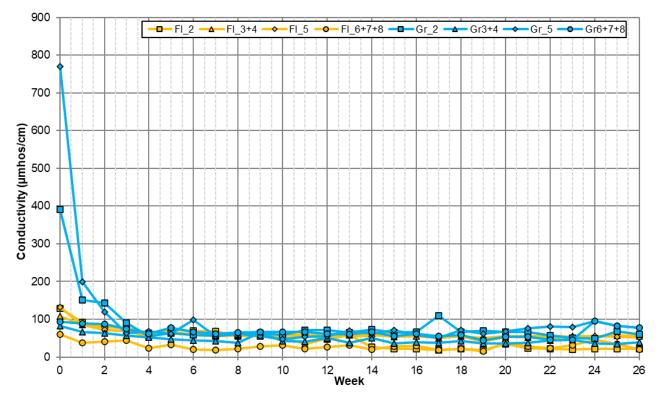


Figure A.2. Time series of Conductivity results from Humidity Cell Tests.

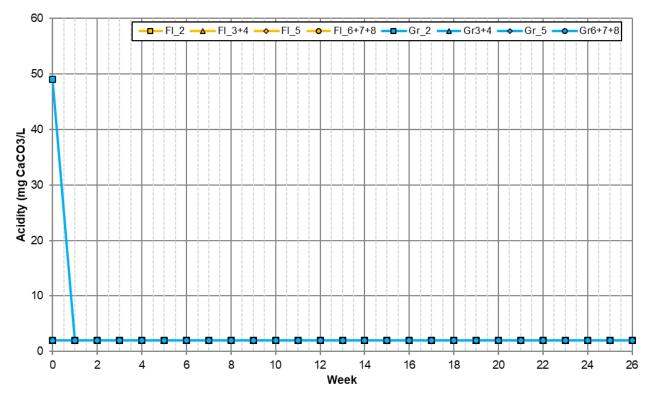


Figure A.3. Time series of Acidity results from Humidity Cell Tests.

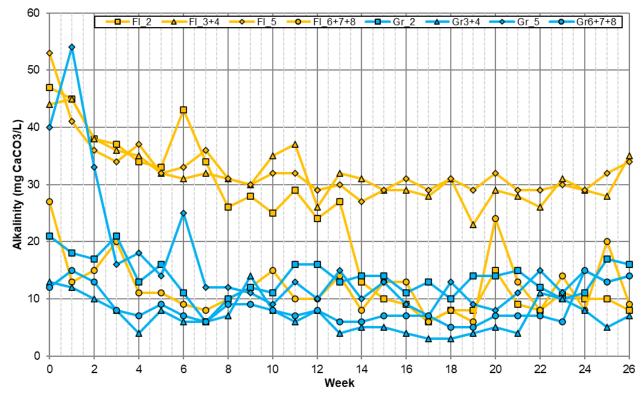


Figure A.4. Time series of Alkalinity results from Humidity Cell Tests.

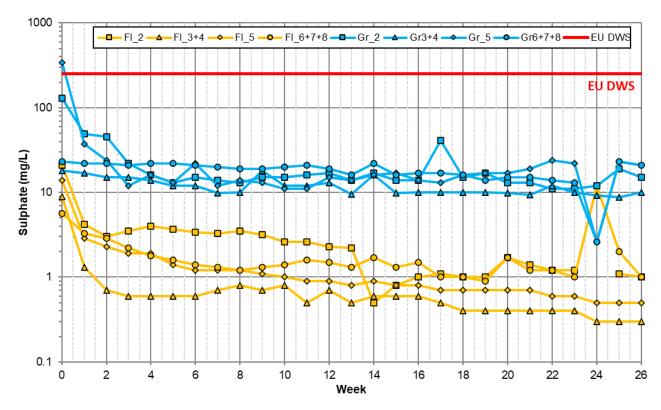


Figure A.5. Time series of Sulphate (SO₄) results from Humidity Cell Tests.

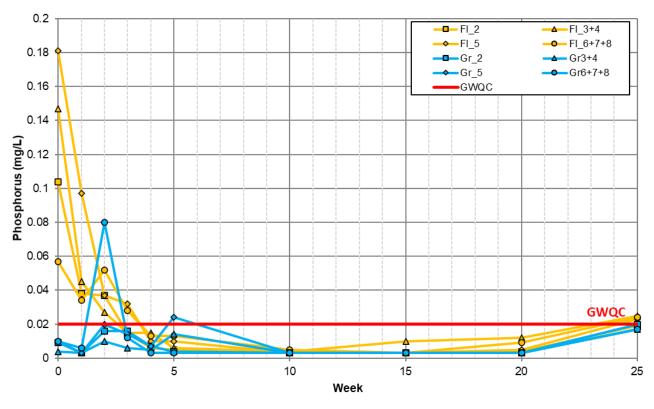


Figure A.6. Time series of Phosphorus (P) results from Humidity Cell Tests.

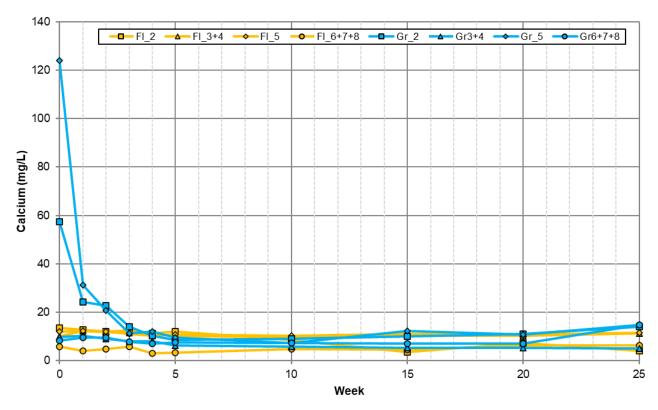


Figure A.7. Time series of Calcium (Ca) results from Humidity Cell Tests.

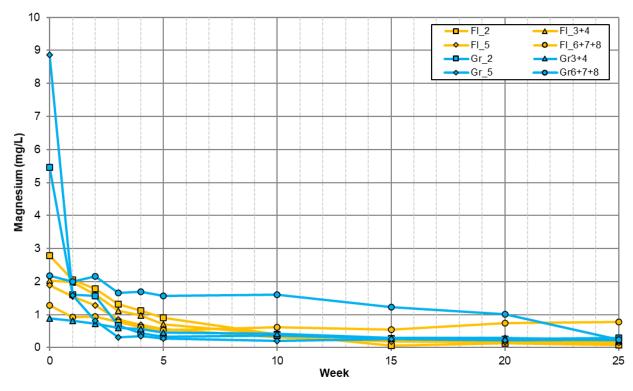


Figure A.8. Time series of Magnesium (Mg) results from Humidity Cell Tests.

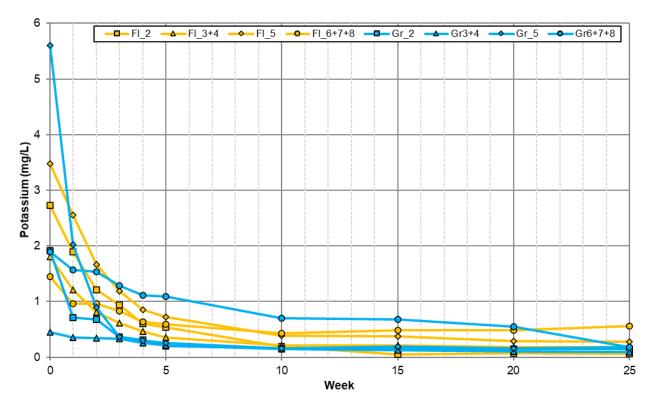


Figure A.9. Time series of Potassium (K) results from Humidity Cell Tests.

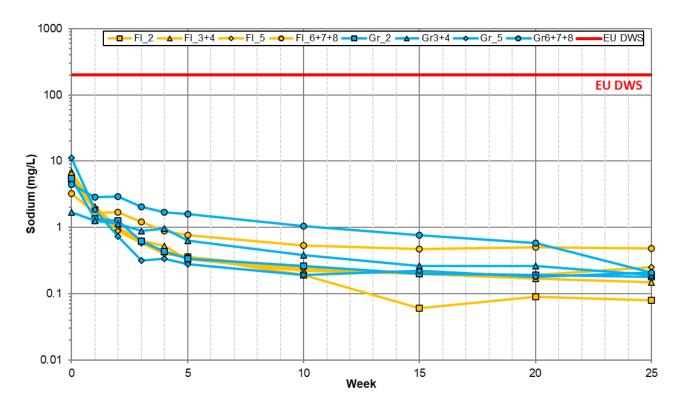


Figure A.10. Time series of Sodium (Na) results from Humidity Cell Tests.

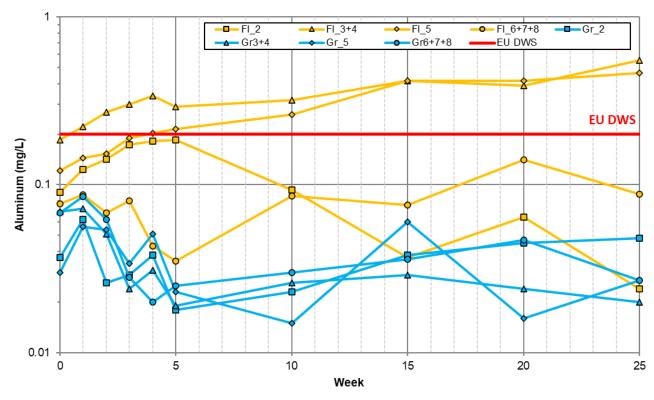


Figure A.11. Time series of Aluminium (AI) results from Humidity Cell Tests.

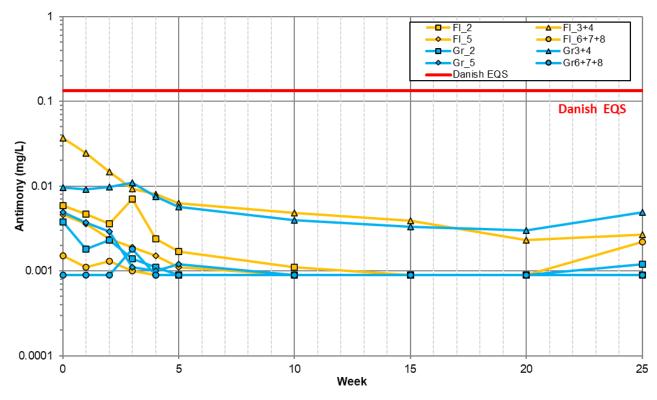


Figure A.12. Time series of Antimony (Sb) results from Humidity Cell Tests.

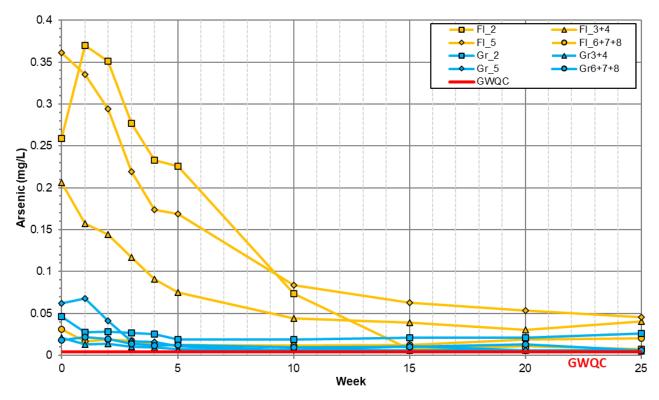


Figure A.13. Time series of Arsenic (As) results from Humidity Cell Tests.

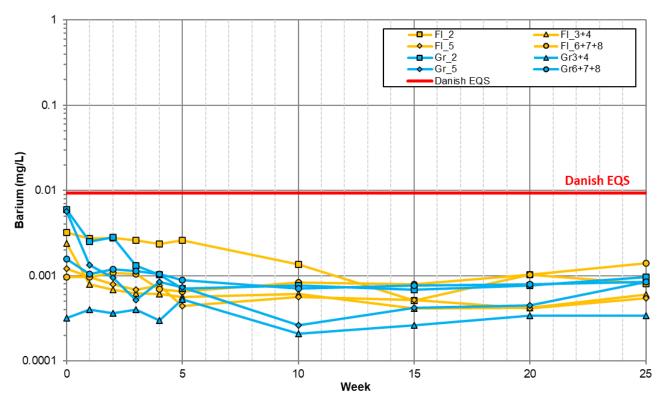


Figure A.14. Time series of Barium (Ba) results from Humidity Cell Tests.

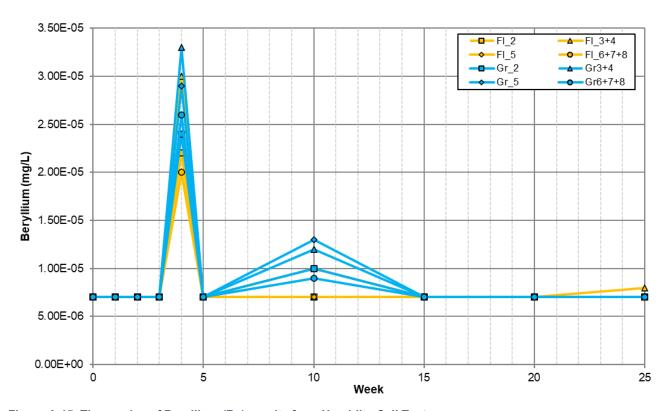


Figure A.15. Time series of Beryllium (Be) results from Humidity Cell Tests.

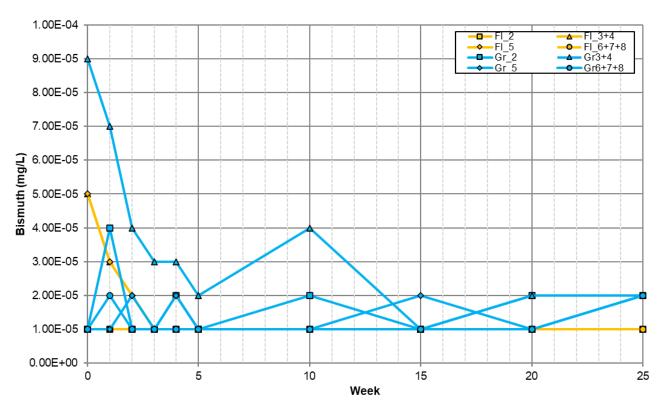


Figure A.16. Time series of Bismuth (Bi) results from Humidity Cell Tests.

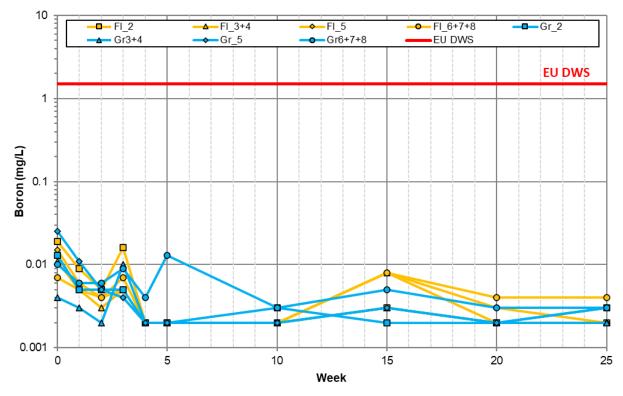


Figure A.17. Time series of Boron (B) results from Humidity Cell Tests.

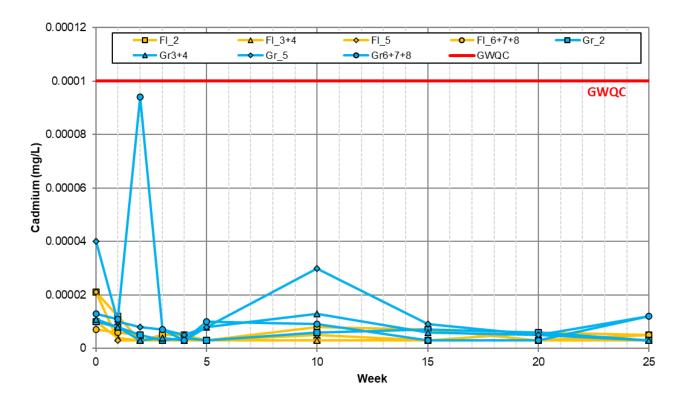


Figure A.18. Time series of Cadmium (Cd) results from Humidity Cell Tests.

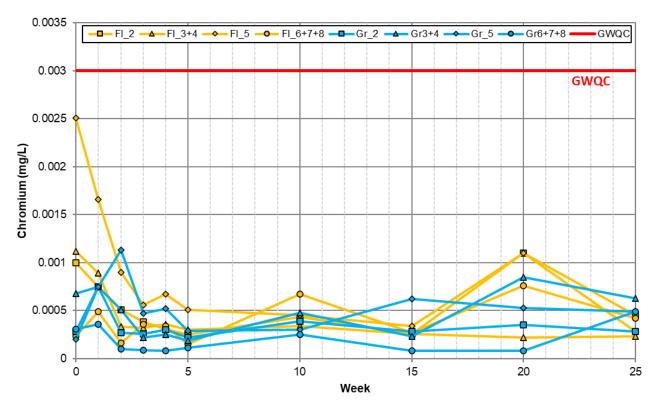


Figure A.19. Time series of Chromium (Cr) results from Humidity Cell Tests.

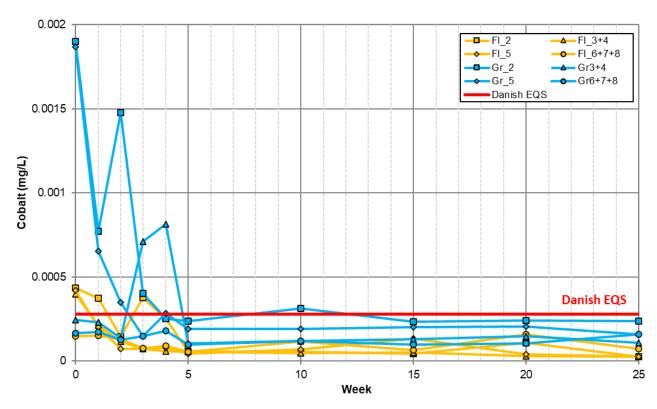


Figure A.20. Time series of Cobalt (Co) results from Humidity Cell Tests.

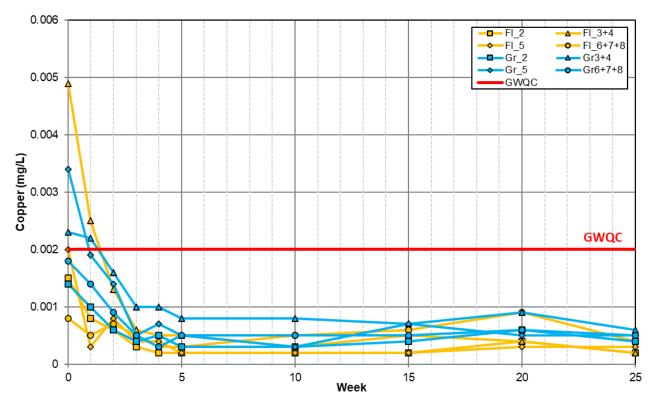


Figure A.21. Time series of Copper (Cu) results from Humidity Cell Tests.

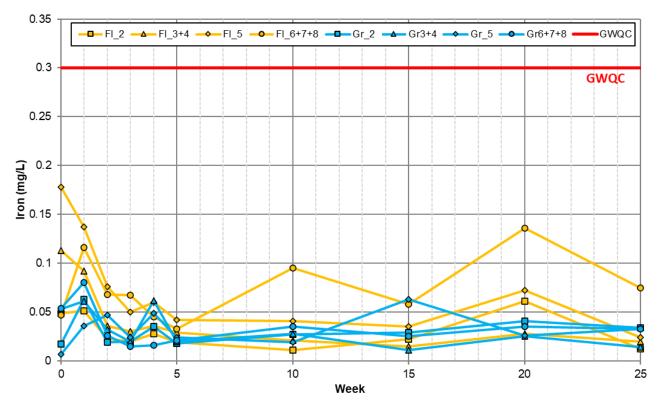


Figure A.22. Time series of Iron (Fe) results from Humidity Cell Tests.

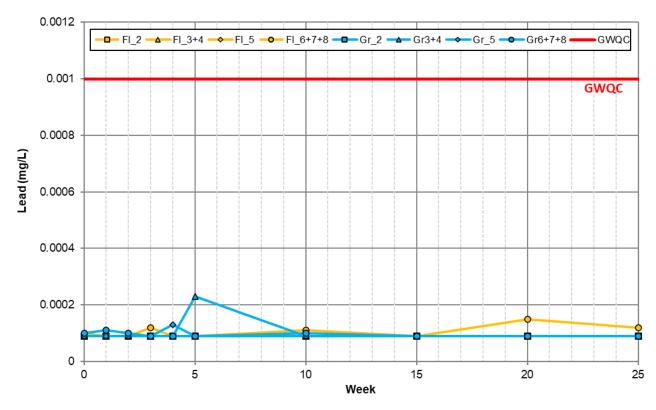


Figure A.23. Time series of Lead (Pb) results from Humidity Cell Tests.

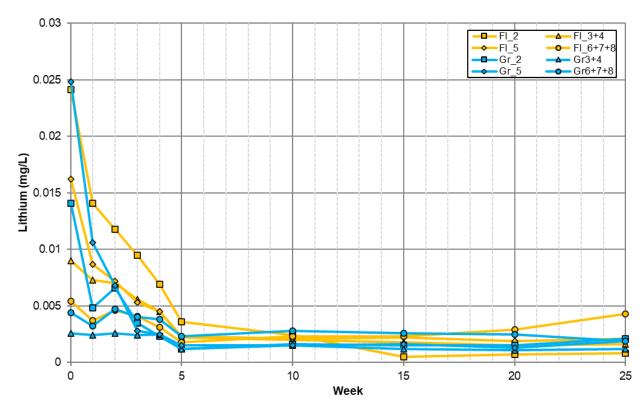


Figure A.24. Time series of Lithium (Li) results from Humidity Cell Tests.

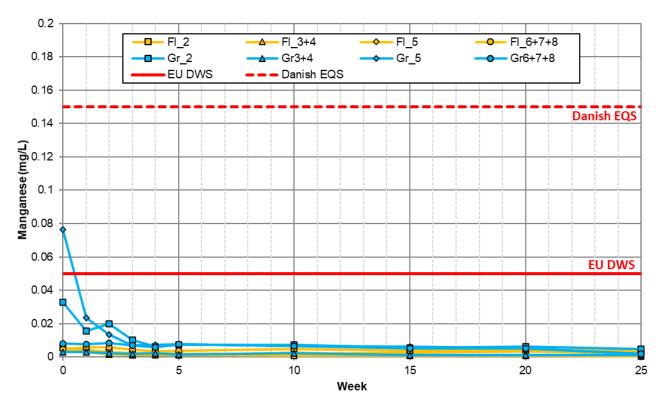


Figure A.25. Time series of Manganese (Mn) results from Humidity Cell Tests.

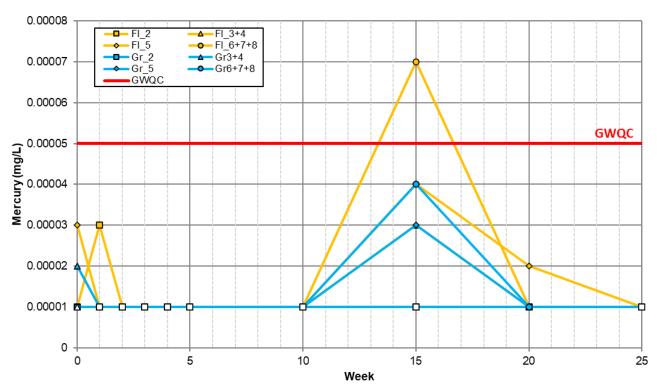


Figure A.26. Time series of Mercury (Hg) results from Humidity Cell Tests.

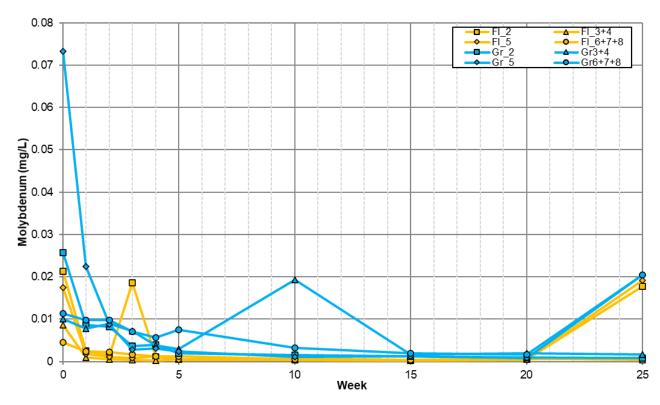


Figure A.27. Time series of Molybdenum (Mo) results from Humidity Cell Tests.

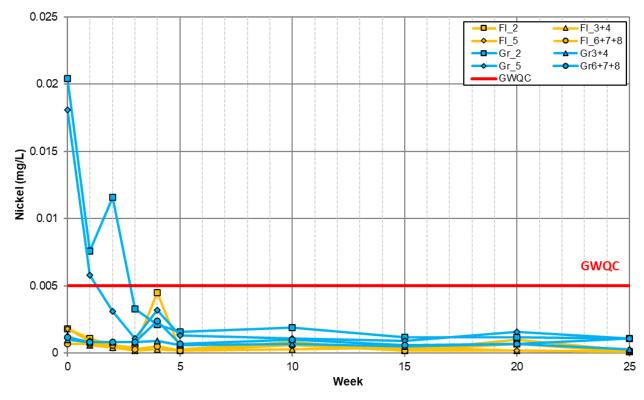


Figure A.28. Time series of Nickel (Ni) results from Humidity Cell Tests.

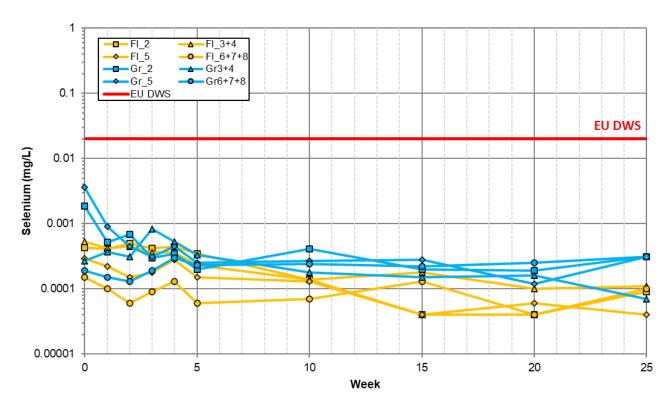


Figure A.29. Time series of Selenium (Se) results from Humidity Cell Tests.

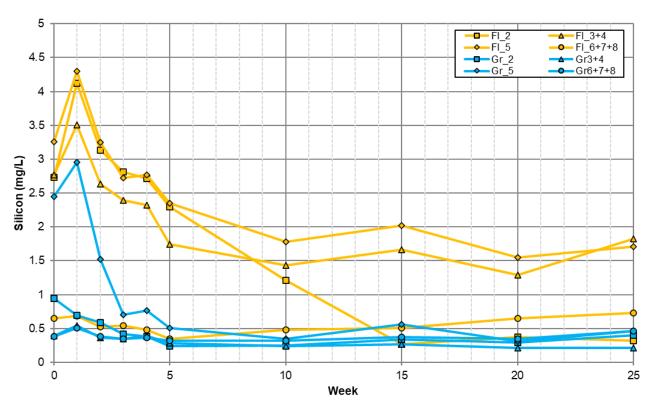


Figure A.30. Time series of Silicon (Si) results from Humidity Cell Tests.

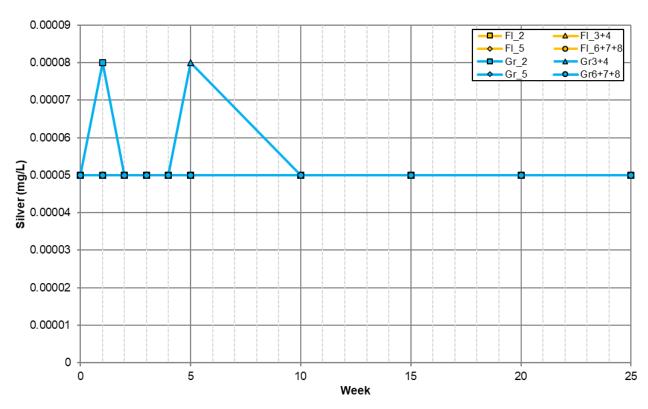


Figure A.31. Time series of Silver (Ag) results from Humidity Cell Tests.

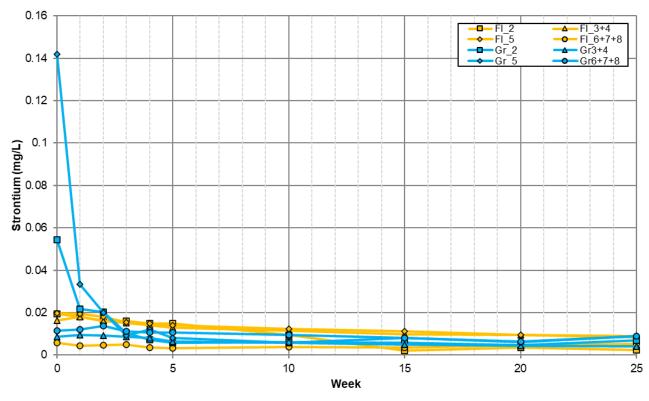


Figure A.32. Time series of Strontium (Sr) results from Humidity Cell Tests.

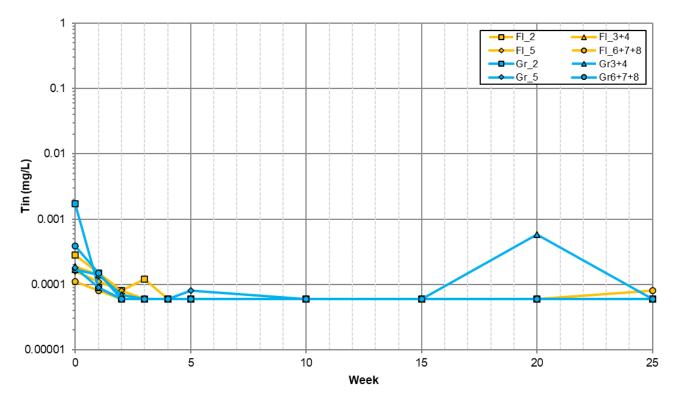


Figure A.33. Time series of Tin (Sn) results from Humidity Cell Tests.

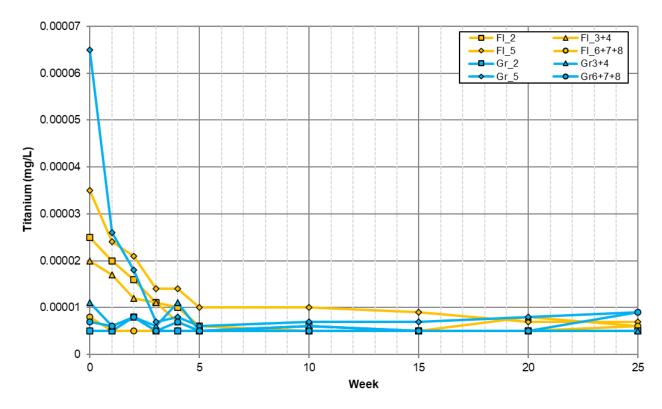


Figure A.34. Time series of Titanium (Ti) results from Humidity Cell Tests.

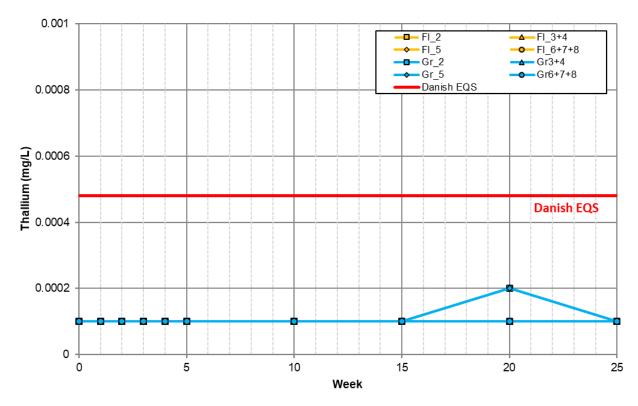


Figure A.35. Time series of Thallium (TI) results from Humidity Cell Tests.

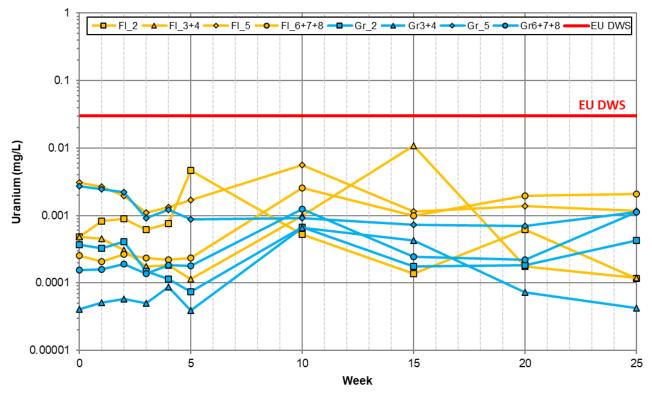


Figure A.36. Time series of Uranium (U) results from Humidity Cell Tests.

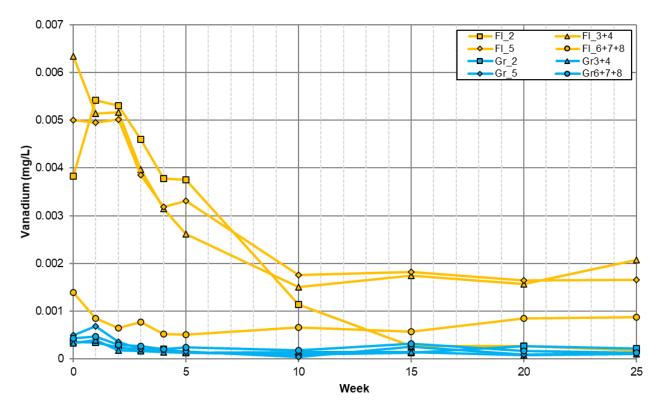


Figure A.37. Time series of Vanadium (V) results from Humidity Cell Tests.

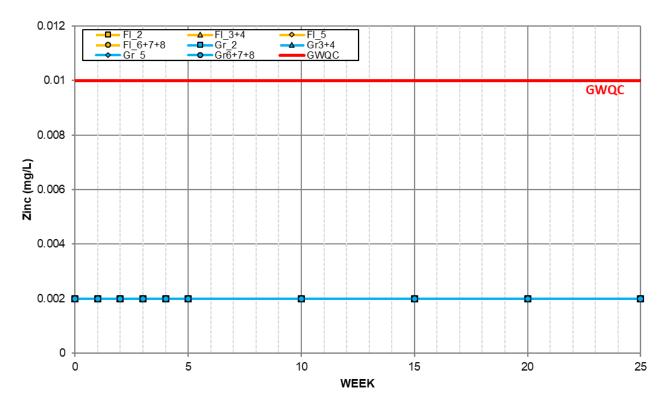


Figure A.38. Time series of Zinc (Zn) results from Humidity Cell Tests.

Table A.1: Summary of HCT results for Sample FI_2 (Weeks 0 - 13).

								FL_2							
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099-MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	712	1015	983	1020	1025	1005	1034	991	1037	965	1050	995	960	1010
рН	No unit	8.39	8.40	8.32	8.25	8.17	8.06	7.90	8.34	7.91	7.90	7.79	8.15	7.83	7.96
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	47	45	38	37	34	33	43	34	26	28	25	29	24	27
Conductivity	μS/cm	129	92	79	77	64	73	70	68	55	57	58	60	47	58
SO ₄	mg/L	21	4.2	3.0	3.5	4.0	3.7	3.4	3.3	3.5	3.2	2.6	2.6	2.3	2.2
Hg	mg/L	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
Al	mg/L	0.090	0.123	0.142	0.173	0.182	0.185					0.093			
As	mg/L	0.259	0.370	0.351	0.277	0.233	0.226					0.0738			
Ва	mg/L	0.00321	0.00273	0.00277	0.00258	0.00234	0.00258					0.00136			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000022	< 0.000007					< 0.000007			
В	mg/L	0.019	0.009	0.005	0.016	< 0.002	< 0.002					< 0.002			
Bi	mg/L	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001					< 0.00001			
Са	mg/L	13.6	12.7	12.0	12.5	11.2	12.1					8.64			

								FL_2							
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000021	0.000012	< 0.000003	0.000005	0.000005	< 0.000003					< 0.000003			
Со	mg/L	0.000433	0.000375	0.000144	0.000377	0.00025	0.000059		-			0.000056		-	
Cr	mg/L	0.00100	0.00075	0.00051	0.00038	0.00031	0.00025		-			0.00043		-	
Cu	mg/L	0.0015	0.0008	0.0006	0.0003	< 0.0002	< 0.0002		-			< 0.0002		-	
Fe	mg/L	0.049	0.051	0.023	0.020	0.028	0.019		-			0.011		-	
K	mg/L	2.73	1.89	1.21	0.936	0.603	0.537		-			0.185		-	
Li	mg/L	0.0241	0.0141	0.0118	0.0095	0.0069	0.0036		-			0.0024		-	
Mg	mg/L	2.78	2.05	1.79	1.32	1.11	0.907		-			0.406		-	
Mn	mg/L	0.00562	0.00445	0.00300	0.00220	0.00207	0.00175		-			0.00174		-	
Мо	mg/L	0.0213	0.00244	0.00138	0.0186	0.00111	0.00056					0.00033			
Na	mg/L	5.42	1.83	0.92	0.62	0.43	0.36		-			0.19		-	
Ni	mg/L	0.0018	0.0011	0.0006	0.0004	0.0045	0.0003					0.0008			
Р	mg/L	0.104	0.038	0.037	0.015	0.006	0.005		-			< 0.003		-	
Pb	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009					< 0.00009			
Sb	mg/L	0.0059	0.0047	0.0036	0.0070	0.0024	0.0017					0.0011			
Se	mg/L	0.00043	0.00041	0.00050	0.00042	0.00045	0.00035					0.00014			
Si	mg/L	2.73	4.12	3.13	2.81	2.71	2.30					1.21			
Sn	mg/L	0.00028	0.00015	0.00008	0.00012	< 0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.0194	0.0179	0.0162	0.0159	0.0148	0.0148					0.00951			
Ti	mg/L	0.00186	0.00237	0.00052	0.00071	0.00083	0.00035					0.00044			

								FL_2							
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ΤΙ	mg/L	0.000025	0.000020	0.000016	0.000011	0.000010	0.000006		-			< 0.000005			-
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001			
U	mg/L	0.000482	0.000826	0.000888	0.000616	0.000764	0.004681					0.000524			
V	mg/L	0.00383	0.00542	0.00531	0.00460	0.00378	0.00375					0.00113			
W	mg/L	0.0127	0.00910	0.00540	0.00415	0.00394	0.00278					0.00306			
Y	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.2: Summary of HCT results for Sample FI_2 (Weeks 14 – 26).

				_= (FL_2							
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	-	10082-JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	983	987	1003	1012	1009	977	1012	1019	1016	1016	1020	1008	992
рН	No unit	7.77	7.58	7.43	7.11	7.39	7.34	7.51	7.46	7.31	7.44	7.43	7.48	7.60
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	13	10	9	6	8	8	15	9	8	11	10	10	8
Conductivity	μS/cm	26	21	21	19	22	19	35	23	22	20	22	22	21
SO ₄	mg/L	0.5	0.8	1.0	1.1	1.0	1.0	1.7	1.4	1.2	1.2	1.2	1.1	1.0
Hg	mg/L		< 0.00001				-	< 0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.037				-	0.064					0.024	-
As	mg/L		0.0076					0.0111					0.0074	
Ва	mg/L		0.00051					0.00102					0.00081	
Ве	mg/L		< 0.000007					< 0.000007					< 0.000007	
В	mg/L		0.003					< 0.002					0.002	
Bi	mg/L		< 0.00001					0.00001					< 0.00001	
Са	mg/L		3.63					7.21					4.20	



							FL_2							
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		< 0.000003					< 0.000003					0.000005	
Со	mg/L		0.000042					0.000107					0.000027	
Cr	mg/L		0.00026					0.00110					0.00045	
Cu	mg/L		< 0.0002					0.0004					< 0.0002	
Fe	mg/L		0.022					0.061					0.012	
Κ	mg/L		0.053					0.074					0.061	
Li	mg/L		0.0005					0.0007					0.0008	
Mg	mg/L		0.064					0.131					0.081	
Mn	mg/L		0.00247					0.00339					0.00227	
Мо	mg/L		0.00017					0.00058					0.0178	
Na	mg/L		0.06					0.09					0.08	
Ni	mg/L		0.0002					0.0007					0.0001	
Р	mg/L		< 0.003					0.004					0.019	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		< 0.0009					< 0.0009					< 0.0009	
Se	mg/L		< 0.00004					< 0.00004					0.00009	
Si	mg/L		0.27					0.37					0.32	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.00210					0.00359					0.00229	
Ti	mg/L		0.00087					0.00201					0.00031	

							FL_2							
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
TI	mg/L		< 0.000005		-			< 0.000005				-	< 0.000005	
Th	mg/L		< 0.0001					< 0.0001					< 0.0001	
U	mg/L		0.000137					0.000623					0.000116	
V	mg/L		0.00026					0.00027					0.00017	
W	mg/L		0.00070					0.00121					0.00098	
Υ	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.3: Summary of HCT results for Sample FI_3+4 (Weeks 0 – 13).

FL_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	_	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	736	988	995	995	990	1000	1017	997	990	1014	987	1004	1021	1016
рН	No unit	8.44	8.32	8.30	8.15	8.12	7.97	7.94	8.21	8.23	8.01	8.07	8.06	7.91	8.18
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	44	45	38	36	35	32	31	32	31	30	35	37	26	32
Conductivity	μS/cm	108	85	71	69	60	63	58	56	57	55	54	34	49	59
SO ₄	mg/L	8.9	1.3	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.8	0.5	0.7	0.5
Hg	mg/L	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00005					< 0.00005			
AI	mg/L	0.185	0.222	0.271	0.302	0.337	0.291					0.318			
As	mg/L	0.206	0.157	0.144	0.117	0.0909	0.0751					0.0444			
Ва	mg/L	0.00238	0.00079	0.00068	0.00062	0.00061	0.00056					0.00061			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000030	< 0.000007					0.000007			
В	mg/L	0.011	0.005	0.003	0.005	< 0.002	< 0.002					< 0.002			
Bi	mg/L	0.00005	0.00003	0.00002	0.00001	< 0.00001	0.00001					< 0.00001			
Са	mg/L	10.0	12.3	11.7	11.5	10.7	10.2					9.51			

FL_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000010	0.000004	0.000003	< 0.000003	< 0.000003	< 0.000003					< 0.000003			
Со	mg/L	0.000399	0.000213	0.000116	0.000072	0.000058	0.000054					0.000049			
Cr	mg/L	0.00112	0.00089	0.00033	0.00032	0.00036	0.00030					0.00034			
Cu	mg/L	0.0049	0.0025	0.0013	0.0006	0.0005	0.0005					0.0003			
Fe	mg/L	0.113	0.092	0.036	0.030	0.036	0.029					0.021			
K	mg/L	1.81	1.21	0.804	0.618	0.457	0.354					0.208			
Li	mg/L	0.0090	0.0073	0.0070	0.0056	0.0045	0.0022					0.0020			
Mg	mg/L	2.04	1.98	1.60	1.12	0.967	0.702					0.393			
Mn	mg/L	0.00311	0.00291	0.00158	0.00118	0.00126	0.00103					0.00091			
Мо	mg/L	0.00869	0.00098	0.00050	0.00039	0.00023	0.00044					0.00066			
Na	mg/L	6.85	2.03	1.00	0.63	0.52	0.33					0.22			
Ni	mg/L	0.0013	0.0006	0.0004	0.0002	0.0003	0.0002					0.0003			
Р	mg/L	0.147	0.045	0.027	0.015	0.015	0.006					0.004			
Pb	mg/L	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009					< 0.00009			
Sb	mg/L	0.0372	0.0244	0.0148	0.0093	0.0080	0.0063					0.0048			
Se	mg/L	0.00053	0.00042	0.00045	0.00036	0.00036	0.00023					0.00014			
Si	mg/L	2.77	3.51	2.63	2.39	2.32	1.74					1.43			
Sn	mg/L	0.00019	0.00014	0.00007	< 0.00006	< 0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.0164	0.0180	0.0161	0.0151	0.0139	0.0128					0.0114			
Ti	mg/L	0.00417	0.00396	0.00081	0.00116	0.00122	0.00083					0.00056			

FL_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
TI	mg/L	0.000020	0.000017	0.000012	0.000011	0.000007	0.000005					< 0.000005			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001			
U	mg/L	0.000485	0.000457	0.000303	0.000176	0.000182	0.000114					0.000989			
V	mg/L	0.00634	0.00514	0.00517	0.00397	0.00315	0.00262					0.00150			
W	mg/L	0.00326	0.00166	0.00069	0.00053	0.00042	0.00029					0.00031			
Y	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.4: Summary of HCT results for Sample FI_3+4 (Weeks 14 – 26).

FL_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	-	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1006	1016	1002	1012	1009	986	1006	1005	1057	973	1036	1021	969
рН	No unit	8.14	8.17	8.15	8.01	7.96	7.91	8.18	8.13	7.88	8.13	8.05	7.70	7.93
Acidity	mg/L as CaCO ₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	31	29	29	28	31	23	29	28	26	31	29	28	35
Conductivity	μS/cm	58	53	56	51	56	41	54	52	50	55	56	57	56
SO ₄	mg/L	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Hg	mg/L		0.00003					< 0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.415					0.390					0.549	
As	mg/L		0.0387				-	0.0303					0.0406	
Ва	mg/L		0.00041				1	0.00042					0.00060	
Ве	mg/L		< 0.000007					< 0.000007					0.000008	
В	mg/L		0.008					< 0.002					0.002	
Bi	mg/L		< 0.00001					0.00001					0.00001	
Са	mg/L		10.2				-	10.3					11.2	

FL_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		< 0.000003					< 0.000003					< 0.000003	
Со	mg/L		0.000052					0.000028					0.000027	
Cr	mg/L		0.00026					0.00022					0.00023	
Cu	mg/L		0.0005					0.0004					< 0.0002	
Fe	mg/L		0.015					0.028					0.020	
κ	mg/L		0.215					0.174					0.178	
Li	mg/L		0.0018					0.0015					0.0016	
Mg	mg/L		0.259					0.215					0.186	
Mn	mg/L		0.00065					0.00072					0.00038	
Мо	mg/L		0.00035					0.00065					0.00034	
Na	mg/L		0.20					0.17					0.15	
Ni	mg/L		0.0004					0.0002					< 0.0001	
Р	mg/L		0.010					0.012					0.025	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		0.0039					0.0023					0.0027	
Se	mg/L		0.00018					0.00010					0.00011	
Si	mg/L		1.66					1.29					1.82	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.00974					0.00945					0.00844	
Ti	mg/L		0.00073					0.00144					0.00086	

FL_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
ΤΙ	mg/L		0.000005					0.000008					0.000006	
Th	mg/L		< 0.0001	-	-			< 0.0001			-		< 0.0001	
U	mg/L		0.0109	-	-			0.000174			-		0.000119	
V	mg/L		0.00174	-	-			0.00157			-		0.00207	
W	mg/L		0.00025					0.00028					0.00031	
Y	mg/L		0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.5: Summary of HCT results for Sample FI_5 (Weeks 0 - 13).

FL_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	_	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	709	1000	974	1012	910	1023	1028	998	1042	1027	1013	981	999	1026
рН	No unit	8.45	8.37	8.07	8.12	8.23	8.16	8.01	8.40	8.20	8.12	8.34	8.24	8.12	8.45
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	53	41	36	34	37	32	33	36	31	30	32	32	29	30
Conductivity	μS/cm	132	85	73	68	55	66	60	60	57	59	56	58	57	56
SO ₄	mg/L	14	2.9	2.3	1.9	1.9	1.4	1.2	1.2	1.2	1.1	1.0	0.9	0.9	0.8
Hg	mg/L	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
AI	mg/L	0.121	0.144	0.153	0.190	0.203	0.215					0.261			
As	mg/L	0.361	0.335	0.294	0.219	0.174	0.169					0.0835			
Ва	mg/L	0.00120	0.00097	0.00079	0.00068	0.00076	0.00044					0.00056			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000020	< 0.000007					< 0.000007			
В	mg/L	0.015	0.006	0.004	0.005	< 0.002	< 0.002					< 0.002			
Bi	mg/L	0.00005	0.00003	0.00002	0.00001	< 0.00001	< 0.00001					< 0.00001			
Са	mg/L	12.0	12.4	12.1	11.1	10.3	10.7					10.2			

FL_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000021	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003					0.000005			
Со	mg/L	0.000420	0.000202	0.000071	0.000073	0.000080	0.000045					0.000068			
Cr	mg/L	0.00251	0.00166	0.00090	0.00056	0.00067	0.00051					0.00045			
Cu	mg/L	0.0020	0.0003	0.0008	0.0004	0.0004	0.0002					< 0.0002			
Fe	mg/L	0.178	0.137	0.076	0.050	0.060	0.042					0.041			
K	mg/L	3.48	2.55	1.67	1.19	0.852	0.726					0.383			
Li	mg/L	0.0162	0.0087	0.0072	0.0053	0.0045	0.0023					0.0021			
Mg	mg/L	1.89	1.55	1.28	0.843	0.697	0.566					0.305			
Mn	mg/L	0.00447	0.00358	0.00228	0.00159	0.00150	0.00118					0.00251			
Мо	mg/L	0.0175	0.00176	0.00103	0.00078	0.00121	0.00042					0.00032			
Na	mg/L	6.30	1.83	0.89	0.58	0.40	0.36					0.24			
Ni	mg/L	0.0018	0.0009	0.0006	0.0003	0.0005	0.0002					0.0007			
Р	mg/L	0.181	0.097	0.037	0.032	0.010	0.010					< 0.003			
Pb	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009					< 0.00009			
Sb	mg/L	0.0046	0.0036	0.0024	0.0019	0.0015	0.0011					< 0.0009			
Se	mg/L	0.00029	0.00022	0.00015	0.00018	0.00028	0.00015					0.00013			
Si	mg/L	3.26	4.30	3.25	2.72	2.77	2.35					1.78			
Sn	mg/L	0.00016	0.00011	0.00008	< 0.00006	< 0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.0198	0.0193	0.0181	0.0154	0.0149	0.0141					0.0122			
Ti	mg/L	0.00409	0.00458	0.00223	0.00139	0.00192	0.00103					0.00144			

FL_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
TI	mg/L	0.000035	0.000024	0.000021	0.000014	0.000014	0.000010					0.000010			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001			
U	mg/L	0.00307	0.00265	0.00197	0.00110	0.00133	0.00170					0.00564			
V	mg/L	0.00500	0.00495	0.00502	0.00385	0.00318	0.00331					0.00175			
w	mg/L	0.00261	0.00195	0.00090	0.00058	0.00076	0.00040					0.00043			
Υ	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.6: Summary of HCT results for Sample FI_5 (Weeks 14 – 26).

FL_5				_ \										
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	-	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1019	1013	1028	1009	1033	1005	1012	1024	1043	1037	1032	1015	1009
рН	No unit	8.87	8.89	8.38	8.23	7.95	8.29	8.46	8.22	7.99	8.27	8.04	8.71	7.96
Acidity	mg/L as CaCO ₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	27	29	31	29	31	29	32	29	29	30	29	32	34
Conductivity	μS/cm	55	66	59	56	56	51	55	55	57	53	55	53	52
SO ₄	mg/L	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5
Hg	mg/L		0.00004					0.00002					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
AI	mg/L		0.415					0.417					0.462	
As	mg/L		0.0631					0.0532	-				0.0456	-
Ва	mg/L		0.00052					0.00041					0.00054	
Ве	mg/L		< 0.000007					< 0.000007					< 0.000007	
В	mg/L		0.008					0.003					0.002	
Bi	mg/L		< 0.00001					0.00001					< 0.00001	
Са	mg/L		11.0					10.9	-				11.6	

FL_5														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		< 0.000003					0.000006					0.000005	
Со	mg/L		0.000135					0.000039					0.000025	
Cr	mg/L		0.00034					0.00110					0.00028	
Cu	mg/L		< 0.0002					0.0003					0.0003	
Fe	mg/L		0.035					0.072					0.024	
Κ	mg/L		0.373					0.284					0.272	
Li	mg/L		0.0022					0.0019					0.0021	
Mg	mg/L		0.192					0.169					0.145	
Mn	mg/L		0.00100					0.00110					0.00048	
Мо	mg/L		0.00029					0.00034					0.0192	
Na	mg/L		0.21					0.19					0.25	
Ni	mg/L		0.0002					0.0002					< 0.0001	
Р	mg/L		< 0.003					0.005					0.023	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		< 0.0009					< 0.0009					< 0.0009	
Se	mg/L		< 0.00004					0.00006					< 0.00004	
Si	mg/L		2.02					1.55					1.71	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.0111					0.00946					0.00889	
Ti	mg/L		0.00130					0.00128					0.00078	

FL_5														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
TI	mg/L		0.000009					0.000007	-		-		0.000007	
Th	mg/L		< 0.0001		-			< 0.0001			-		< 0.0001	
U	mg/L		0.00114		-			0.00139			-		0.00117	
V	mg/L		0.00182					0.00164					0.00165	
w	mg/L		0.00041					0.00065					0.00050	
Υ	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.7: Summary of HCT results for Sample FI_6+7+8 (Weeks 0 – 13).

FL_6+7+8															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	783	1010	1023	1019	1008	1034	1015	1022	1022	1017	1016	1008	993	1024
рН	No unit	8.86	7.98	8.07	8.57	8.35	7.65	7.39	7.23	7.53	7.66	8.78	7.40	7.58	8.69
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	27	13	15	20	11	11	9	8	10	12	15	10	10	14
Conductivity	μS/cm	60	37	41	44	24	33	20	19	21	28	32	21	26	31
SO ₄	mg/L	5.6	3.3	2.9	2.2	1.8	1.6	1.4	1.3	1.2	1.3	1.4	1.6	1.5	1.3
Hg	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
Al	mg/L	0.077	0.087	0.068	0.080	0.043	0.035					0.086			
As	mg/L	0.0308	0.0163	0.0187	0.0177	0.0121	0.0124					0.0115			
Ва	mg/L	0.00096	0.00097	0.00108	0.00104	0.00070	0.00065					0.00083			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000020	< 0.000007					0.000010			
В	mg/L	0.007	0.005	0.004	0.007	0.002	0.002					0.002			
Bi	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Са	mg/L	5.83	4.15	4.96	5.80	3.06	3.34					4.78			

FL_6+7+8															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000007	0.000006	0.000005	< 0.000003	< 0.000003	< 0.000003					0.000008			
Со	mg/L	0.000148	0.000153	0.000129	0.000075	0.000090	0.000055					0.000115			
Cr	mg/L	0.00023	0.00049	0.00016	0.00036	0.00034	0.00015					0.00067			
Cu	mg/L	0.0008	0.0005	0.0007	0.0005	0.0003	0.0003					0.0005			
Fe	mg/L	0.047	0.116	0.068	0.067	0.045	0.033					0.095			
K	mg/L	1.45	0.963	0.959	0.826	0.636	0.586					0.429			
Li	mg/L	0.0054	0.0037	0.0046	0.0041	0.0031	0.0018					0.0023			
Mg	mg/L	1.28	0.923	0.944	0.771	0.608	0.529					0.612			
Mn	mg/L	0.00485	0.00600	0.00579	0.00427	0.00340	0.00359					0.00477			
Мо	mg/L	0.00452	0.00236	0.00216	0.00164	0.00122	0.00121					0.00054			
Na	mg/L	3.28	1.66	1.68	1.22	0.88	0.77					0.53			
Ni	mg/L	0.0007	0.0007	0.0006	0.0003	0.0005	0.0002					0.0006			
Р	mg/L	0.057	0.034	0.052	0.028	0.013	0.013					0.005			
Pb	mg/L	< 0.00009	0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009					0.00011			
Sb	mg/L	0.0015	0.0011	0.0013	0.0010	< 0.0009	< 0.0009			-		< 0.0009			
Se	mg/L	0.00015	0.00010	0.00006	0.00009	0.00013	0.00006			-		0.00007			
Si	mg/L	0.65	0.68	0.52	0.54	0.48	0.35					0.48			
Sn	mg/L	0.00011	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.00563	0.00432	0.00457	0.00498	0.00337	0.00328					0.00385			
Ti	mg/L	0.00153	0.00422	0.00243	0.00188	0.00165	0.00104					0.00356			

FL_6+7+8															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
TI	mg/L	0.000008	0.000005	0.000005	0.000005	0.000005	< 0.000005					< 0.000005			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001			-	-	< 0.0001		-	
U	mg/L	0.000253	0.000207	0.000264	0.000233	0.000221	0.000233					0.00254			
V	mg/L	0.00139	0.00085	0.00064	0.00077	0.00052	0.00051					0.00065			
W	mg/L	0.00270	0.00227	0.00228	0.00173	0.00158	0.00135					0.00106			
Y	mg/L	< 0.00002	0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.8: Summary of HCT results for Sample FI_6+7+8 (Weeks 14 – 26).

FL_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	-	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1022	1011	1019	977	1019	1006	1017	976	1033	1019	1033	1030	1015
рН	No unit	8.39	8.79	8.08	7.27	7.64	7.57	7.80	8.05	7.37	8.86	7.27	8.07	7.90
Acidity	mg/L as CaCO ₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	8	13	13	6	8	6	24	13	8	14	8	20	9
Conductivity	μS/cm	20	28	29	19	22	15	37	28	24	31	46	34	20
SO ₄	mg/L	1.7	1.3	1.5	1.0	1.0	0.9	1.7	1.2	1.2	1.0	12	2.0	1.0
Hg	mg/L		0.00007					0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.076					0.141					0.088	
As	mg/L		0.0122		-		-	0.0189	-	-	-		0.0203	-
Ва	mg/L		0.00079		1		-	0.00102	1	1	-		0.00141	1
Be	mg/L		< 0.000007					< 0.000007					< 0.000007	
В	mg/L		0.008					0.004					0.004	
Bi	mg/L		< 0.00001					0.00001					0.00001	
Са	mg/L		4.65		1		-	6.24	1	1	-		6.42	

FL_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		0.000007					< 0.000003					0.000005	
Со	mg/L		0.000066					0.000158					0.000072	
Cr	mg/L		0.00027					0.00076					0.00042	
Cu	mg/L		0.0006					0.0009					0.0004	
Fe	mg/L		0.058					0.136					0.075	
Κ	mg/L		0.485					0.482					0.560	
Li	mg/L		0.0023					0.0029					0.0043	
Mg	mg/L		0.544					0.745					0.770	
Mn	mg/L		0.00381					0.00441					0.00376	
Мо	mg/L		0.00036					0.00051					0.00089	
Na	mg/L		0.47					0.50					0.48	
Ni	mg/L		0.0002					0.0010					0.0002	
Р	mg/L		0.003					0.009					0.024	
Pb	mg/L		< 0.00009					0.00015					0.00012	
Sb	mg/L		< 0.0009					0.0009					0.0022	
Se	mg/L		0.00013					0.00004					0.00010	
Si	mg/L		0.51					0.65					0.73	
Sn	mg/L		< 0.00006					< 0.00006					0.00008	
Sr	mg/L		0.00355					0.00454					0.00526	
Ti	mg/L		0.00222					0.00626					0.00227	

FL_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
ΤΙ	mg/L		< 0.000005					< 0.000005					0.000006	
Th	mg/L		< 0.0001					< 0.0001					< 0.0001	
U	mg/L		0.000984					0.00196			-		0.00207	
V	mg/L		0.00057					0.00084			-		0.00087	
W	mg/L		0.00091					0.00114					0.00141	
Y	mg/L		< 0.00002					0.00004					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.9: Summary of HCT results for Sample Gr_2 (Weeks 0 – 13).

Gr_2															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	809	1005	1010	997	1014	1010	993	1002	908	1005	993	999	1025	1043
рН	No unit	7.87	7.86	7.75	8.36	8.82	8.08	7.89	8.65	8.09	7.66	8.01	8.54	8.23	8.37
Acidity	mg/L as CaCO₃	49	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	21	18	17	21	13	16	11	6	10	12	11	16	16	13
Conductivity	μS/cm	391	151	143	91	56	64	59	57	60	63	58	72	72	65
SO ₄	mg/L	130	49	45	22	16	13	15	14	13	15	15	16	17	14
Hg	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	0.00008	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
AI	mg/L	0.037	0.062	0.026	0.029	0.038	0.018					0.023			
As	mg/L	0.0464	0.0277	0.0280	0.0269	0.0254	0.0190					0.0188			
Ва	mg/L	0.00592	0.00250	0.00282	0.00131	0.00102	0.00071					0.00076			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000024	< 0.000007					0.000010			
В	mg/L	0.013	0.005	0.005	0.005	< 0.002	< 0.002					0.003			
Bi	mg/L	< 0.00001	0.00004	< 0.00001	0.00001	0.00002	< 0.00001					0.00002			
Са	mg/L	57.3	24.3	22.8	14.1	10.3	8.47					9.07			

Gr_2															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000010	0.000008	0.000005	0.000003	0.000004	0.000003					0.000006			
Со	mg/L	0.00190	0.000770	0.001477	0.000404	0.000253	0.000239					0.000312			
Cr	mg/L	0.00028	0.00075	0.00027	0.00026	0.00030	0.00022					0.00039			
Cu	mg/L	0.0014	0.0010	0.0006	0.0004	0.0005	0.0003					0.0003			
Fe	mg/L	0.017	0.063	0.019	0.020	0.035	0.018					0.027			
K	mg/L	1.91	0.711	0.678	0.365	0.312	0.206					0.158			
Li	mg/L	0.0141	0.0048	0.0066	0.0035	0.0023	0.0012					0.0016			
Mg	mg/L	5.46	1.60	1.56	0.667	0.434	0.337					0.357			
Mn	mg/L	0.0327	0.0155	0.0199	0.0101	0.00617	0.00715					0.00710			
Мо	mg/L	0.0257	0.00868	0.00821	0.00363	0.00399	0.00188					0.00156			
Na	mg/L	5.53	1.36	1.27	0.62	0.43	0.34					0.26			
Ni	mg/L	0.0204	0.0076	0.0116	0.0033	0.0021	0.0016					0.0019			
Р	mg/L	0.009	< 0.003	0.016	0.016	0.007	0.004					< 0.003			
Pb	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00009	< 0.00009					< 0.00009			
Sb	mg/L	0.0038	0.0018	0.0023	0.0014	0.0011	< 0.0009					< 0.0009			
Se	mg/L	0.00187	0.00052	0.00068	0.00030	0.00035	0.00020					0.00041			
Si	mg/L	0.94	0.69	0.59	0.42	0.38	0.24					0.25			
Sn	mg/L	0.00172	0.00009	< 0.00006	< 0.00006	0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.0545	0.0216	0.0202	0.0104	0.00712	0.00571					0.00608			
Ti	mg/L	0.00062	0.00255	0.00062	0.00057	0.00110	0.00061					0.00085			

Gr_2															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ΤΙ	mg/L	< 0.000005	< 0.000005	0.000008	< 0.000005	< 0.000005	< 0.000005			-		0.000006		-	
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001			
U	mg/L	0.000366	0.000325	0.000411	0.000148	0.000114	0.000074					0.000666			
V	mg/L	0.00035	0.00034	0.00024	0.00019	0.00020	0.00013					0.00009			
W	mg/L	0.00163	0.00080	0.00070	0.00039	0.00039	0.00035					0.00025			
Y	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.10: Summary of HCT results for Sample Gr_2 (Weeks 14 – 26).

Gr_2														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	-	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1012	1008	1001	877	1006	977	1032	984	985	1019	1026	1026	977
рН	No unit	8.44	8.66	8.70	8.19	8.56	8.83	8.84	8.44	7.81	7.63	7.72	8.32	7.26
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	14	14	11	13	10	14	14	15	12	10	11	17	16
Conductivity	µS/cm	73	65	66	110	66	70	66	66	57	50	49	68	60
SO ₄	mg/L	17	14	14	41	15	17	13	13	11	11	12	19	15
Hg	mg/L		< 0.00001				-	0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.038					0.045					0.048	
As	mg/L		0.0213					0.0208	-	-			0.0263	
Ва	mg/L	-	0.00068				-	0.00077	1	1			0.00097	
Ве	mg/L		< 0.000007					< 0.000007	-	-			< 0.000007	
В	mg/L		0.002					< 0.002					0.003	
Bi	mg/L		0.00001					0.00002					0.00002	
Са	mg/L		9.98					11.0	-	-			14.1	

Gr_2														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		0.000007					0.000006					< 0.000003	
Со	mg/L		0.000234					0.000241					0.000239	
Cr	mg/L		0.00028					0.00035					0.00028	
Cu	mg/L		0.0004					0.0006					0.0004	
Fe	mg/L		0.029					0.041					0.034	
К	mg/L		0.149					0.144					0.147	
Li	mg/L		0.0015					0.0015					0.0021	
Mg	mg/L		0.276					0.250					0.290	
Mn	mg/L		0.00551					0.00623					0.00484	
Мо	mg/L		0.00121					0.00100					0.00083	
Na	mg/L		0.20					0.19					0.18	
Ni	mg/L		0.0012					0.0012					0.0011	
Р	mg/L		< 0.003					0.003					0.020	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		< 0.0009					< 0.0009					0.0012	
Se	mg/L		0.00020					0.00019					0.00031	
Si	mg/L		0.34					0.29					0.40	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.00572					0.00464					0.00688	
Ti	mg/L	-	0.00125		-			0.00108	-	-			0.00115	

Gr_2														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
TI	mg/L		< 0.000005					< 0.000005				-	< 0.000005	
Th	mg/L		< 0.0001		-			0.0002				-	< 0.0001	
U	mg/L		0.000174					0.000184					0.000424	
V	mg/L		0.00012		-			0.00026				-	0.00021	
W	mg/L		0.00025					0.00028					0.00026	
Y	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.11: Summary of HCT results for Sample Gr_3+4 (Weeks 0 – 13).

Gr_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	841	1000	996	1002	982	1017	955	1026	960	1000	1011	978	961	1016
рН	No unit	7.71	7.55	7.67	7.45	7.93	7.44	7.15	7.16	7.34	7.79	7.43	7.12	7.47	7.30
Acidity	mg/L as CaCO ₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	13	12	10	8	4	8	6	6	7	14	8	6	8	4
Conductivity	μS/cm	82	67	64	57	52	48	44	43	38	65	42	41	50	38
SO ₄	mg/L	18	17	15	15	14	12	12	9.9	10	18	12	12	13	9.6
Hg	mg/L	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00008					< 0.00005			
AI	mg/L	0.069	0.072	0.051	0.024	0.031	0.019					0.026			
As	mg/L	0.0209	0.0134	0.0137	0.0099	0.0096	0.0072					0.0068			
Ва	mg/L	0.00032	0.00040	0.00036	0.00040	0.00030	0.00053					0.00021			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000033	< 0.000007					0.000012			
В	mg/L	0.004	0.003	0.002	0.010	< 0.002	< 0.002					< 0.002			
Bi	mg/L	0.00009	0.00007	0.00004	0.00003	0.00003	0.00002					0.00004			
Са	mg/L	9.91	10.3	9.06	8.04	8.15	6.39					5.91			

Gr_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000011	0.000008	0.000003	0.000004	< 0.000003	0.000008					0.000013			
Со	mg/L	0.000243	0.000230	0.000136	0.000712	0.000813	0.000105					0.000118			
Cr	mg/L	0.00068	0.00075	0.00051	0.00022	0.00025	0.00019					0.00048			
Cu	mg/L	0.0023	0.0022	0.0016	0.0010	0.0010	0.0008					0.0008			
Fe	mg/L	0.053	0.061	0.032	0.020	0.062	0.020					0.028			
K	mg/L	0.450	0.356	0.343	0.330	0.255	0.213					0.148			
Li	mg/L	0.0026	0.0024	0.0026	0.0024	0.0025	0.0012					0.0015			
Mg	mg/L	0.887	0.812	0.720	0.591	0.564	0.447					0.415			
Mn	mg/L	0.00281	0.00311	0.00239	0.00202	0.00216	0.00164					0.00226			
Мо	mg/L	0.0101	0.00784	0.00888	0.00718	0.00377	0.00297					0.0193			
Na	mg/L	1.70	1.27	1.13	0.89	0.96	0.63					0.38			
Ni	mg/L	0.0010	0.0008	0.0008	0.0008	0.0009	0.0006					0.0007			
Р	mg/L	0.004	< 0.003	0.010	0.006	0.005	0.014					< 0.003			
Pb	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00023					< 0.00009			
Sb	mg/L	0.0097	0.0091	0.0098	0.0110	0.0075	0.0057					0.0040			
Se	mg/L	0.00027	0.00037	0.00031	0.00084	0.00053	0.00033					0.00018			
Si	mg/L	0.39	0.54	0.36	0.35	0.39	0.28					0.24			
Sn	mg/L	0.00017	0.00014	0.00007	< 0.00006	0.00006	< 0.00006					< 0.00006			
Sr	mg/L	0.00869	0.00942	0.00924	0.00853	0.00814	0.00639					0.00586			
Ti	mg/L	0.00179	0.00240	0.00069	0.00060	0.00076	0.00051					0.00107			

Gr_3+4															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ті	mg/L	0.000011	0.000006	0.000008	0.000006	0.000011	0.000005					0.000006			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001	-		
U	mg/L	0.000041	0.000051	0.000058	0.000050	0.000087	0.000039					0.000661			
V	mg/L	0.00033	0.00039	0.00017	0.00016	0.00014	0.00013					0.00014			
w	mg/L	0.00017	0.00014	0.00009	0.00019	0.00007	0.00004					0.00017			
Υ	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.12: Summary of HCT results for Sample Gr_3+4 (Weeks 14 – 26).

Gr_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	_	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1018	995	1016	969	999	993	1010	1010	1016	1010	1012	1012	974
рН	No unit	7.53	7.28	6.93	6.97	7.12	6.86	6.96	6.95	7.69	7.69	7.16	6.98	7.44
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	5	5	4	3	3	4	5	4	11	10	8	5	7
Conductivity	μS/cm	50	36	39	37	42	36	36	38	44	45	36	34	40
SO ₄	mg/L	16	9.8	10	10	10	10	9.8	9.4	12	10	9.2	8.8	10
Hg	mg/L		< 0.00001					0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.029		1		-	0.024	-	1	-		0.020	
As	mg/L		0.0055					0.0060					0.0053	
Ва	mg/L		0.00026					0.00034					0.00034	
Ве	mg/L		< 0.000007					< 0.000007					< 0.000007	
В	mg/L		0.003					< 0.002					0.002	
Bi	mg/L		< 0.00001					0.00002					0.00002	
Са	mg/L		5.37					5.45	-	-	-		5.10	

Gr_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		0.000006					0.000005					< 0.000003	
Со	mg/L		0.000130					0.000148					0.000109	
Cr	mg/L		0.00023					0.00085					0.00063	
Cu	mg/L		0.0007					0.0009					0.0006	
Fe	mg/L		0.011					0.025					0.014	
К	mg/L		0.128					0.108					0.094	
Li	mg/L		0.0012					0.0011					0.0012	
Mg	mg/L		0.301					0.289					0.228	
Mn	mg/L		0.00104					0.00112					0.00100	
Мо	mg/L		0.00160					0.00193					0.00159	
Na	mg/L		0.26					0.26					0.19	
Ni	mg/L		0.0005					0.0007					0.0003	
Р	mg/L		< 0.003					< 0.003					0.017	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		0.0033					0.0030					0.0049	
Se	mg/L		0.00015					0.00016					0.00007	
Si	mg/L		0.27					0.21					0.21	
Sn	mg/L		< 0.00006					0.00058					< 0.00006	
Sr	mg/L	-	0.00481				-	0.00436					0.00402	
Ti	mg/L	-	0.00038				-	0.00043	-				0.00052	

Gr_3+4														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
ті	mg/L		0.000005					0.000005					< 0.000005	
Th	mg/L		< 0.0001			-	-	< 0.0001				-	< 0.0001	
U	mg/L		0.000425					0.000073					0.000042	
V	mg/L		0.00014					0.00008					0.00010	
W	mg/L		0.00004					0.00005					0.00005	
Υ	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.13: Summary of HCT results for Sample Gr_5 (Weeks 0 - 13).

Gr_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	734	1021	1020	1018	1009	1010	1026	1010	997	975	1019	961	1001	1016
рН	No unit	7.86	7.91	8.02	7.45	8.35	7.63	8.17	7.35	7.52	7.53	7.28	7.60	7.38	7.51
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	40	54	33	16	18	14	25	12	12	11	9	13	10	15
Conductivity	μS/cm	770	199	120	64	68	62	98	55	61	56	48	54	55	70
SO ₄	mg/L	340	37	24	12	16	13	22	12	14	13	11	11	15	14
Hg	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
AI	mg/L	0.030	0.056	0.054	0.034	0.051	0.023					0.015			
As	mg/L	0.0623	0.0679	0.0411	0.0163	0.0158	0.0106					0.0060			
Ва	mg/L	0.00570	0.00133	0.00095	0.00052	0.00085	0.00073					0.00026			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000029	< 0.000007					0.000013			
В	mg/L	0.025	0.011	0.005	0.004	< 0.002	< 0.002					< 0.002			
Bi	mg/L	< 0.00001	0.00001	0.00002	< 0.00001	0.00002	< 0.00001					< 0.00001			
Са	mg/L	124	31.2	20.9	11.3	12.0	9.70					7.42			

Gr_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000040	0.000010	0.000008	0.000007	0.000005	0.000008					0.000030			
Со	mg/L	0.00187	0.000652	0.000347	0.000147	0.000283	0.000191					0.000190			
Cr	mg/L	0.00020	0.00075	0.00113	0.00047	0.00052	0.00029					0.00030			
Cu	mg/L	0.0034	0.0019	0.0014	0.0005	0.0007	0.0005					0.0003			
Fe	mg/L	< 0.007	0.036	0.047	0.024	0.049	0.024					0.019			
K	mg/L	5.60	2.02	0.891	0.366	0.303	0.258					0.152			
Li	mg/L	0.0248	0.0106	0.0068	0.0028	0.0025	0.0015					0.0015			
Mg	mg/L	8.86	1.59	0.820	0.312	0.344	0.270					0.204			
Mn	mg/L	0.0765	0.0233	0.0133	0.00696	0.00711	0.00761					0.00659			
Мо	mg/L	0.0732	0.0224	0.00870	0.00277	0.00302	0.00238					0.00108			
Na	mg/L	11.2	1.84	0.74	0.32	0.34	0.28					0.19			
Ni	mg/L	0.0181	0.0058	0.0031	0.0011	0.0032	0.0013					0.0011			
Р	mg/L	0.010	< 0.003	0.020	0.014	0.007	0.024					< 0.003			
Pb	mg/L	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009					< 0.00009			
Sb	mg/L	0.0049	0.0037	0.0029	0.0011	0.0010	0.0012					< 0.0009			
Se	mg/L	0.00361	0.00090	0.00045	0.00031	0.00045	0.00025					0.00027			
Si	mg/L	2.45	2.95	1.52	0.70	0.76	0.51					0.35			
Sn	mg/L	0.00018	0.00009	< 0.00006	< 0.00006	< 0.00006	0.00008					< 0.00006			
Sr	mg/L	0.142	0.0332	0.0201	0.00930	0.0121	0.00806					0.00578			
Ti	mg/L	0.00015	0.00116	0.00088	0.00075	0.00115	0.00053					0.00051			

Gr_5															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ті	mg/L	0.000065	0.000026	0.000018	0.000007	0.000008	0.000006					0.000007			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001	-		-
U	mg/L	0.00271	0.00245	0.00221	0.000905	0.00123	0.000871					0.000913			
V	mg/L	0.00049	0.00068	0.00035	0.00020	0.00019	0.00015					0.00004			
W	mg/L	0.00126	0.00125	0.00094	0.00030	0.00030	0.00021					0.00018			
Y	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.14: Summary of HCT results for Sample Gr_5 (Weeks 14 – 26).

Gr_5														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	_	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	1008	1010	1002	1001	963	1005	1014	1025	1009	994	1025	1000	989
рН	No unit	7.53	7.22	7.38	7.13	7.68	7.44	7.52	7.31	7.68	7.34	7.53	7.46	7.42
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	10	13	9	7	13	9	8	11	15	11	15	13	14
Conductivity	μS/cm	62	71	59	50	72	61	68	76	81	79	96	82	78
SO ₄	mg/L	16	17	14	13	16	17	17	19	24	22	2.6	23	21
Hg	mg/L		0.00003					0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.060					0.016					0.027	
As	mg/L		0.0109		-		-	0.0058	-	-			0.0057	-
Ва	mg/L		0.00042		1		-	0.00045	1	1			0.00085	
Ве	mg/L		< 0.000007		-		-	< 0.000007	-	-			< 0.000007	-
В	mg/L		0.003					< 0.002					0.003	
Bi	mg/L		0.00002					< 0.00001					0.00002	
Са	mg/L		12.4				-	10.9	-	-			14.8	

Gr_5														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		0.000009					0.000005					0.000012	
Со	mg/L		0.000203					0.000206					0.000157	
Cr	mg/L		0.00062					0.00053					0.00049	
Cu	mg/L		0.0007					0.0005					0.0005	
Fe	mg/L		0.063					0.026					0.033	
K	mg/L		0.195					0.155					0.179	
Li	mg/L		0.0016					0.0013					0.0019	
Mg	mg/L		0.255					0.219					0.235	
Mn	mg/L		0.00623					0.00500					0.00203	
Мо	mg/L		0.00126					0.00074					0.0205	
Na	mg/L		0.22					0.18					0.21	
Ni	mg/L		0.0009					0.0016					0.0011	
Р	mg/L		< 0.003					< 0.003					0.017	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		< 0.0009					< 0.0009					< 0.0009	
Se	mg/L		0.00028					0.00012					0.00031	
Si	mg/L		0.56					0.31					0.46	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.00804					0.00617					0.00874	
Ti	mg/L		0.00195					0.00090					0.00063	

Gr_5	Gr_5													
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
ΤΙ	mg/L		0.000007					0.000008					0.000009	
Th	mg/L		< 0.0001			-	-	0.0002				-	< 0.0001	
U	mg/L		0.000722					0.000702					0.00111	
V	mg/L		0.00025					0.00009					0.00013	
W	mg/L		0.00093					0.00005					0.00006	
Υ	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	

Table A.15: Summary of HCT results for Sample Gr_6+7+8 (Weeks 0 – 13).

Gr_6+7+8															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Date	-	08-Mar-22	15-Mar-22	22-Mar-22	29-Mar-22	05-Apr-22	12-Apr-22	19-Apr-22	26-Apr-22	03-May-22	10-May-22	17-May-22	24-May-22	31-May-22	07-Jun-22
LIMS	-	10050- MAR22	10088- MAR22	10119- MAR22	10166- MAR22	10017- APR22	10052- APR22	10090- APR22	10131- APR22	10015- MAY22	10057- MAY22	10099- MAY22	10144- MAY22	10192- MAY22	10036- JUN22
HCT Leachate Vol	mL	938	998	1016	1019	986	985	1020	1014	1036	1013	1027	1005	1024	1024
рН	No unit	7.76	7.81	7.71	7.41	7.20	7.39	7.15	7.02	7.43	7.40	7.17	7.17	7.32	7.08
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO ₃	12	15	13	8	7	9	7	6	9	9	8	7	8	6
Conductivity	μS/cm	94	89	87	75	62	77	66	62	65	66	66	66	62	60
SO ₄	mg/L	23	22	22	21	22	22	21	20	19	19	20	21	19	16
Hg	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001					< 0.00001			
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005					< 0.00005			
Al	mg/L	0.068	0.085	0.062	0.028	0.020	0.025					0.030			
As	mg/L	0.0184	0.0217	0.0197	0.0141	0.0113	0.0120					0.0096			
Ва	mg/L	0.00158	0.00105	0.00118	0.00114	0.00105	0.00088					0.00071			
Ве	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000026	< 0.000007					0.000009			
В	mg/L	0.010	0.006	0.006	0.009	0.004	0.013					0.003			
Bi	mg/L	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001					< 0.00001			
Са	mg/L	8.29	9.63	9.52	7.94	6.98	7.68					7.44			

Gr_6+7+8															
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Cd	mg/L	0.000013	0.000011	0.000094	0.000007	0.000003	0.000010					0.000009			
Со	mg/L	0.000166	0.000173	0.000127	0.000147	0.000181	0.000097					0.000119			
Cr	mg/L	0.00031	0.00036	0.00010	0.00009	< 0.00008	0.00011					0.00025			
Cu	mg/L	0.0018	0.0014	0.0009	0.0005	0.0003	0.0005					0.0005			
Fe	mg/L	0.054	0.080	0.026	0.015	0.016	0.021					0.035			
K	mg/L	1.89	1.57	1.54	1.28	1.11	1.09					0.705			
Li	mg/L	0.0044	0.0032	0.0047	0.0040	0.0038	0.0023					0.0028			
Mg	mg/L	2.18	1.99	2.16	1.66	1.70	1.57					1.61			
Mn	mg/L	0.00806	0.00759	0.00840	0.00698	0.00577	0.00764					0.00669			
Мо	mg/L	0.0113	0.00978	0.00982	0.00707	0.00569	0.00753					0.00324			
Na	mg/L	4.45	2.84	2.94	2.05	1.69	1.59					1.04			
Ni	mg/L	0.0012	0.0008	0.0008	0.0008	0.0024	0.0007					0.0010			
Р	mg/L	0.010	0.006	0.080	0.012	< 0.003	0.003					< 0.003			
Pb	mg/L	0.00010	0.00011	0.00010	< 0.00009	< 0.00009	< 0.00009					0.00010			
Sb	mg/L	< 0.0009	< 0.0009	< 0.0009	0.0018	< 0.0009	< 0.0009					< 0.0009			
Se	mg/L	0.00019	0.00015	0.00013	0.00019	0.00030	0.00023					0.00024			
Si	mg/L	0.38	0.51	0.38	0.35	0.36	0.32					0.32			
Sn	mg/L	0.00039	0.00015	0.00006	< 0.00006	< 0.00006	0.00006					< 0.00006			
Sr	mg/L	0.0115	0.0119	0.0137	0.0111	0.0105	0.0105					0.00958			
Ti	mg/L	0.00165	0.00228	0.00049	0.00049	0.00030	0.00052					0.00129			

Gr_6+7+8	Gr_6+7+8														
Parameter	Units	0	1	2	3	4	5	6	7	8	9	10	11	12	13
ТІ	mg/L	0.000007	0.000006	0.000008	0.000005	0.000007	< 0.000005					0.000005			
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001					< 0.0001	-		
U	mg/L	0.000156	0.000157	0.000192	0.000137	0.000182	0.000179					0.00124			
V	mg/L	0.00043	0.00047	0.00029	0.00026	0.00020	0.00024					0.00017			
W	mg/L	0.00055	0.00055	0.00052	0.00040	0.00043	0.00040					0.00034			
Υ	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002					< 0.00002			
Zn	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002					< 0.002			

Table A.16: Summary of HCT results for Sample Gr_6+7+8 (Weeks 14 – 26).

Gr_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	-	14-Jun-22	21-Jun-22	28-Jun-22	05-Jul-22	12-Jul-22	19-Jul-22	26-Jul-22	02-Aug-22	09-Aug-22	16-Aug-22	23-Aug-22	30-Aug-22	06-Sep-22
LIMS	_	10082- JUN22	10124- JUN22	10171- JUN22	10013- JUL22	10057- JUL22	10101- JUL22	10145- JUL22	10012- AUG22	10056- AUG22	10100- AUG22	10144- AUG22	10192- AUG22	10015- SEP22
HCT Leachate Vol	mL	919	950	1010	988	996	1001	1029	1030	1022	1023	1025	1000	989
рН	No unit	7.19	7.14	7.26	7.24	7.01	7.20	7.26	7.14	7.30	7.16	7.53	7.46	7.42
Acidity	mg/L as CaCO₃	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Alkalinity	mg/L as CaCO₃	6	7	7	7	5	5	7	7	7	6	15	13	14
Conductivity	μS/cm	67	55	62	56	58	44	53	54	46	45	96	82	78
SO ₄	mg/L	22	16	17	17	16	14	15	15	14	13	2.6	23	21
Hg	mg/L		0.00004					0.00001					< 0.00001	
Ag	mg/L		< 0.00005					< 0.00005					< 0.00005	
Al	mg/L		0.036				-	0.047	-		-		0.027	
As	mg/L		0.0102					0.0131					0.0057	
Ва	mg/L		0.00076					0.00079					0.00085	
Ве	mg/L		< 0.000007					< 0.000007					< 0.000007	
В	mg/L		0.005					0.003					0.003	
Bi	mg/L		< 0.00001					< 0.00001					0.00002	
Са	mg/L		7.09				-	7.09	-		-		14.8	

Gr_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
Cd	mg/L		< 0.000003					< 0.000003					0.000012	
Со	mg/L		0.000099					0.000105					0.000157	
Cr	mg/L		< 0.00008					< 0.00008					0.00049	
Cu	mg/L		0.0005					0.0006					0.0005	
Fe	mg/L		0.025					0.035					0.033	
К	mg/L		0.674					0.548					0.179	
Li	mg/L		0.0026		-		-	0.0025	-				0.0019	
Mg	mg/L		1.22		-		-	1.02	-				0.235	
Mn	mg/L		0.00500		-		-	0.00519	-				0.00203	
Мо	mg/L		0.00192					0.00168					0.0205	
Na	mg/L		0.76		-		-	0.58	-				0.21	
Ni	mg/L		0.0006					0.0007					0.0011	
Р	mg/L		< 0.003		-		-	0.003	-				0.017	
Pb	mg/L		< 0.00009					< 0.00009					< 0.00009	
Sb	mg/L		< 0.0009					< 0.0009					< 0.0009	
Se	mg/L		0.00022					0.00025					0.00031	
Si	mg/L		0.37					0.35					0.46	
Sn	mg/L		< 0.00006					< 0.00006					< 0.00006	
Sr	mg/L		0.00791					0.00631					0.00874	
Ti	mg/L		0.00042				-	0.00122					0.00063	

Gr_6+7+8														
Parameter	Units	14	15	16	17	18	19	20	21	22	23	24	25	26
ті	mg/L		< 0.000005					< 0.000005					0.000009	
Th	mg/L		< 0.0001			-	-	< 0.0001				-	< 0.0001	
U	mg/L		0.000245					0.000219					0.00111	
V	mg/L		0.00031					0.00016					0.00013	
W	mg/L		0.00033					0.00020					0.00006	
Υ	mg/L		< 0.00002					< 0.00002					< 0.00002	
Zn	mg/L		< 0.002					< 0.002					< 0.002	