SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0413-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	104	90	110	NA		
Acidity - QCBatchID: EWL0471-MAR25													
Acidity	2	mg/L as Ca	< 2			3	20	100	90	110	NA		
Acidity - QCBatchID: EWL0472-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	108	90	110	NA		
Acidity - QCBatchID: EWL0523-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0413-MAR25													
Alkalinity	2	mg/L as Ca	< 2			6	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0471-MAR25													
Alkalinity	2	mg/L as Ca	< 2			2	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0472-MAR25													
Alkalinity	2	mg/L as Ca	< 2			5	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0523-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0452-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			16	20	99	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			5	20	100	90	110	100	75	125
Anions by IC - QCBatchID: DIO0454-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	104	75	125
Chloride	0.2	mg/L	<0.2			10	20	101	90	110	106	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	104	75	125
Sulphate	0.2	mg/L	<0.2			4	20	101	90	110	101	75	125
Anions by IC - QCBatchID: DIO0482-MAR25													
Sulphate	0.2	mg/L	<0.2			0	20	100	90	110	101	75	125
Anions by IC - QCBatchID: DIO0510-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			9	20	103	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			14	20	102	90	110	98	75	125

OnLine LIMS

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Inorganic Analysis													
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				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Anions by IC - QCBatchID: DIO0511-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			15	20	102	90	110	101	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	96	75	125
Conductivity - QCBatchID: EWL0413-MAR25													
Conductivity	2	uS/cm	< 2			1	20	99	90	110	NA		
Conductivity - QCBatchID: EWL0471-MAR25													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
Conductivity - QCBatchID: EWL0472-MAR25													
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA		
Conductivity - QCBatchID: EWL0523-MAR25													
Conductivity	2	uS/cm	2			2	20	107	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0403-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	96	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0418-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	96	90	110	106	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0458-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	102	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0468-MAR25													
Fluoride	0.06	mg/L	<0.06			1	10	99	90	110	76	75	125
Inorganics-General - QCBatchID: EHG0044-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	112	80	120	104	70	130
Inorganics-General - QCBatchID: EHG0051-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	97	80	120	119	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0214-MAR25													
Aluminum	0.001	mg/L	<0.001			ND	20	102	90	110	112	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	110	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	109	90	110	98	70	130
Barium	0.00008	mg/L	<0.00008			ND	20	103	90	110	93	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	105	90	110	101	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	104	90	110	89	70	130
Boron	0.002	mg/L	<0.002			ND	20	97	90	110	100	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	104	90	110	106	70	130
Calcium	0.01	mg/L	<0.01			ND	20	98	90	110	97	70	130
Cesium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	106	90	110	100	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	108	90	110	96	70	130

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11020-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Copper	0.001	mg/L	<0.001			ND	20	109	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	104	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	103	90	110	97	70	130
Lithium	0.0001	mg/L	<0.0001			4	20	103	90	110	91	70	130
Magnesium	0.001	mg/L	<0.001			ND	20	102	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			ND	20	105	90	110	107	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	102	90	110	95	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	108	90	110	100	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			6	20	98	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	103	90	110	89	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			6	20	97	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	103	90	110	83	70	130
Silicon	0.02	mg/L	<0.02			ND	20	92	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	106	90	110	78	70	130
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	100	90	110	95	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	106	90	110	98	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	100	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	102	90	110	99	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	106	90	110	99	70	130
Zinc	0.002	mg/L	<0.002			ND	20	106	90	110	76	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0224-MAR25													
Aluminum	0.001	mg/L	<0.001			6	20	102	90	110	118	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	73	70	130

OnLine LIMS

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Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130	
pH - QCBatchID: EWL0413-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0444-MAR25														
pH	0.05	No unit	NA			1		101			NA			
pH - QCBatchID: EWL0471-MAR25														
pH	0.05	No unit	NA			1		100			NA			
pH - QCBatchID: EWL0472-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0523-MAR25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0208-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			6	10	94	90	110	105	75	125	

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11021-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
1: Analysis Start Date		22-Mar-25	22-Mar-25	22-Mar-25	23-Mar-25	22-Mar-25	22-Mar-25	23-Mar-25	23-Mar-25	23-Mar-25	23-Mar-25
2: Analysis Start Time		09:53	08:00	13:00	08:36	08:33	08:33	12:25	08:36	12:25	12:25
3: Analysis Completed Date		24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25	24-Mar-25
4: Analysis Completed Time		09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58	09:58
5: VIS-CV5-MS-229	NA	8.99	2	2.01	20.00	0.10	0.10	13.75	1.74	15.5	50.1
6: VIS-CV5-MS-230	NA	9.59	3	2.00	20.00	0.10	0.10	13.19	1.50	17.0	6.34
7: VIS-CV5-MS-231	NA	8.57	2	2.03	20.00	0.10	0.10	17.63	1.43	5.8	25.1
8: VIS-CV5-MS-232	NA	9.57	2	2.01	20.00	0.10	0.10	16.48	1.46	8.7	1.62
9: VIS-CV5-MS-233	NA	9.48	2	1.99	20.00	0.10	0.10	15.41	1.60	11.5	0.34
10: VIS-CV5-MS-234	NA	9.84	2	2.01	20.00	0.10	0.10	17.49	1.51	6.3	6.31
11: VIS-CV5-MS-235	NA	10.00	2	1.99	20.00	0.10	0.10	15.94	1.44	10.2	0.31
12: VIS-CV5-MS-236	NA	9.68	2	2.00	20.00	0.10	0.10	15.71	1.48	10.7	0.31
13: VIS-CV5-MS-237	NA	9.64	2	2.02	20.00	0.10	0.10	17.43	1.46	6.4	0.31
14: VIS-CV5-MS-238	NA	9.90	3	2.03	25.20	0.10	0.10	18.26	1.58	17.1	0.75
15: VIS-CV5-MS-239	NA	9.59	3	2.02	20.00	0.10	0.10	12.67	1.68	18.1	14.0
16: VIS-CV5-MS-240	NA	10.12	2	1.99	20.00	0.10	0.10	16.58	1.40	8.6	1.19
17: VIS-CV5-MS-241	NA	10.01	2	2.01	20.00	0.10	0.10	17.24	1.38	6.9	3.09
18: VIS-CV5-MS-242	NA	9.98	3	2.00	20.00	0.10	0.10	13.91	1.73	15.2	0.53

OnLine LIMS

0004055211

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ABA - Modified Sobek

LR Report : CA11021-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
19: VIS-CV5-MS-243	NA	9.76	2	2.02	20.00	0.10	0.10	15.85	1.35	10.3	0.31
20: VIS-CV5-MS-244	NA	10.18	3	1.98	25.00	0.10	0.10	17.80	1.52	18.2	0.31
21: VIS-CV5-MS-245	NA	10.05	3	2.02	20.00	0.10	0.10	14.37	1.81	13.9	0.31
22: VIS-CV5-MS-246	NA	10.06	2	2.03	20.00	0.10	0.10	17.32	1.35	6.6	0.31
23: VIS-CV5-MS-247	NA	10.20	2	1.98	20.00	0.10	0.10	17.14	1.36	7.2	0.75
24: VIS-CV5-MS-248	NA	9.99	3	2.03	24.80	0.10	0.10	15.48	1.56	22.9	0.31
25: VIS-CV5-MS-249	NA	10.22	3	2.02	20.00	0.10	0.10	14.13	1.76	14.5	0.31
26: VIS-CV5-MS-250	NA	9.14	3	2.02	20.00	0.10	0.10	9.81	1.85	25.2	14.5
27: VIS-CV5-MS-251	NA	9.59	2	2.01	20.00	0.10	0.10	15.73	1.51	10.6	4.16
28: VIS-CV5-MS-252	NA	9.51	2	1.98	20.00	0.10	0.10	14.96	1.40	12.7	0.34
29: VIS-CV5-MS-253	NA	7.50	2	2.00	20.00	0.10	0.10	17.47	1.48	6.3	128
30: VIS-CV5-MS-254	NA	9.79	2	1.99	20.00	0.10	0.10	16.16	1.38	9.7	0.44
31: VIS-CV5-MS-255	NA	9.92	2	2.02	20.00	0.10	0.10	16.10	1.33	9.7	4.78
32: VIS-CV5-MS-256	NA	9.75	2	2.02	20.00	0.10	0.10	16.56	1.38	8.5	11.4
33: VIS-CV5-MS-257	NA	9.54	2	2.00	20.00	0.10	0.10	18.58	1.24	3.5	0.31
34: VIS-CV5-MS-258	NA	9.85	2	2.00	20.00	0.10	0.10	15.67	1.78	10.8	0.38
35: VIS-CV5-PEG-259	NA	9.79	3	2.02	20.00	0.10	0.10	14.74	1.37	13.0	0.78
36: VIS-CV5-PEG-260	NA	9.30	2	2.04	20.00	0.10	0.10	18.54	1.26	3.6	0.31
37: VIS-CV5-PEG-261	NA	9.65	2	1.99	20.00	0.10	0.10	18.30	1.20	4.3	0.31
38: VIS-CV5-PEG-262	NA	10.09	2	2.02	20.00	0.10	0.10	18.51	1.10	3.7	0.31
39: VIS-CV5-PEG-263	NA	10.01	2	2.01	20.00	0.10	0.10	18.98	1.15	2.5	0.31
40: VIS-CV5-PEG-264	NA	10.58	2	2.01	20.00	0.10	0.10	18.66	1.23	3.3	0.31
41: VIS-CV5-PEG-265	NA	10.47	2	2.01	20.00	0.10	0.10	18.74	1.16	3.1	0.31
42: VIS-CV5-PEG-266	NA	9.47	2	2.00	20.00	0.10	0.10	18.50	1.18	3.8	0.31
43: VIS-CV5-PEG-267	NA	9.01	2	2.01	20.00	0.10	0.10	18.72	1.13	3.2	0.31
44: VIS-CV5-PEG-268	NA	9.42	2	2.01	20.00	0.10	0.10	18.18	1.17	4.5	0.31
45: VIS-CV5-PEG-269	NA	10.12	2	2.00	20.00	0.10	0.10	18.77	1.16	3.1	0.31
46: VIS-CV5-PEG-270	NA	10.17	2	1.98	20.00	0.10	0.10	15.99	1.27	10.1	0.31
47: VIS-CV5-PEG-271	NA	10.09	2	1.98	20.00	0.10	0.10	19.27	1.14	1.8	0.31
48: VIS-CV5-PEG-272	NA	10.05	2	1.98	20.00	0.10	0.10	18.79	1.18	3.1	0.31
49: VIS-CV5-PEG-273	NA	10.18	2	1.98	20.00	0.10	0.10	18.88	1.17	2.8	0.31
50: VIS-CV5-PEG-274	NA	9.74	3	2.01	20.00	0.10	0.10	11.63	1.66	20.8	0.31
51: VIS-CV5-PEG-275	NA	10.30	2	2.03	20.00	0.10	0.10	18.96	1.17	2.6	0.31

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ABA - Modified Sobek

LR Report : CA11021-FEB25

Sample ID	Sample Date & Time	Paste pH no unit	Fizz Rate rating	Sample weight g	HCl_add mL	HCl Normality	NaOH Normality	Vol NaOH to pH=8.3 mL	Final pH no unit	NP t CaCO3/1000 t	AP t CaCO3/1000 t
52: VIS-CV5-PEG-276	NA	10.01	2	2.00	20.00	0.10	0.10	19.17	1.16	2.1	0.31

Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
1: Analysis Start Date	23-Mar-25	23-Mar-25	19-Mar-25	20-Mar-25	19-Mar-25	19-Mar-25	20-Mar-25
2: Analysis Start Time	12:25	12:25	13:19	14:32	16:22	13:19	15:15
3: Analysis Completed Date	24-Mar-25	24-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25	20-Mar-25
4: Analysis Completed Time	09:58	09:58	14:33	14:33	14:33	14:33	15:59
5: VIS-CV5-MS-229	-34.59	0.31	2.01	0.41	1.60	0.108	0.46
6: VIS-CV5-MS-230	10.7	2.68	0.288	0.08	0.20	0.127	0.54
7: VIS-CV5-MS-231	-19.26	0.23	1.06	0.26	0.80	0.018	< 0.04
8: VIS-CV5-MS-232	7.08	5.35	0.087	< 0.04	0.05	0.014	< 0.04
9: VIS-CV5-MS-233	11.2	33.5	0.008	< 0.04	0.01	0.013	< 0.04
10: VIS-CV5-MS-234	-0.01	1.00	0.309	0.11	0.20	0.095	< 0.04
11: VIS-CV5-MS-235	9.89	32.6	0.016	< 0.04	0.01	0.043	0.11
12: VIS-CV5-MS-236	10.4	34.2	< 0.005	< 0.04	< 0.01	0.058	0.19
13: VIS-CV5-MS-237	6.09	20.5	< 0.005	< 0.04	< 0.01	0.020	< 0.04
14: VIS-CV5-MS-238	16.4	22.8	0.032	< 0.04	0.02	0.108	0.49
15: VIS-CV5-MS-239	4.07	1.29	0.545	0.10	0.45	0.098	0.41
16: VIS-CV5-MS-240	7.41	7.24	0.118	0.08	0.04	0.037	0.10
17: VIS-CV5-MS-241	3.81	2.23	0.169	0.07	0.10	0.020	< 0.04
18: VIS-CV5-MS-242	14.7	28.6	0.031	< 0.04	0.02	0.101	0.40
19: VIS-CV5-MS-243	9.99	33.0	0.014	< 0.04	< 0.01	0.057	0.19
20: VIS-CV5-MS-244	17.9	58.2	0.006	< 0.04	< 0.01	0.104	0.44
21: VIS-CV5-MS-245	13.6	44.5	0.005	< 0.04	< 0.01	0.060	0.20
22: VIS-CV5-MS-246	6.29	21.1	< 0.005	< 0.04	< 0.01	0.033	0.09
23: VIS-CV5-MS-247	6.45	9.60	0.095	0.07	0.02	0.021	< 0.04
24: VIS-CV5-MS-248	22.6	73.3	< 0.005	< 0.04	< 0.01	0.183	0.84
25: VIS-CV5-MS-249	14.2	46.4	< 0.005	< 0.04	< 0.01	0.081	0.32
26: VIS-CV5-MS-250	10.7	1.74	0.654	0.19	0.46	0.236	1.05
27: VIS-CV5-MS-251	6.44	2.55	0.180	0.05	0.13	0.033	0.08

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Sample ID	Net NP t CaCO3/1000 t	NP/AP ratio	S %	Acid Leachable SO4-S %	Sulphide %	C %	CO3 (HCl) as %CO3 %
28: VIS-CV5-MS-252	12.4	36.9	0.005	< 0.04	0.01	0.052	0.17
29: VIS-CV5-MS-253	-122.11	0.05	5.08	0.97	4.11	0.036	< 0.04
30: VIS-CV5-MS-254	9.26	22.2	0.016	< 0.04	0.01	0.049	0.10
31: VIS-CV5-MS-255	4.92	2.03	0.195	0.04	0.15	0.065	0.18
32: VIS-CV5-MS-256	-2.94	0.74	0.491	0.12	0.37	0.037	0.06
33: VIS-CV5-MS-257	3.19	11.2	0.086	0.08	0.01	0.040	0.10
34: VIS-CV5-MS-258	10.4	28.8	0.021	< 0.04	0.01	0.041	0.12
35: VIS-CV5-PEG-259	12.2	16.6	0.067	0.04	0.02	0.127	0.49
36: VIS-CV5-PEG-260	3.29	11.5	< 0.005	< 0.04	< 0.01	0.042	0.09
37: VIS-CV5-PEG-261	3.99	13.8	0.006	< 0.04	< 0.01	0.032	0.05
38: VIS-CV5-PEG-262	3.39	11.8	< 0.005	< 0.04	< 0.01	0.024	< 0.04
39: VIS-CV5-PEG-263	2.19	8.00	< 0.005	< 0.04	< 0.01	0.021	< 0.04
40: VIS-CV5-PEG-264	2.99	10.6	< 0.005	< 0.04	< 0.01	0.028	0.06
41: VIS-CV5-PEG-265	2.79	9.92	< 0.005	< 0.04	< 0.01	0.036	< 0.04
42: VIS-CV5-PEG-266	3.49	12.2	< 0.005	< 0.04	< 0.01	0.035	< 0.04
43: VIS-CV5-PEG-267	2.89	10.2	< 0.005	< 0.04	< 0.01	0.038	< 0.04
44: VIS-CV5-PEG-268	4.19	14.4	< 0.005	< 0.04	< 0.01	0.037	< 0.04
45: VIS-CV5-PEG-269	2.79	9.92	< 0.005	< 0.04	< 0.01	0.037	0.04
46: VIS-CV5-PEG-270	9.79	32.3	< 0.005	< 0.04	< 0.01	0.093	0.33
47: VIS-CV5-PEG-271	1.49	5.76	< 0.005	< 0.04	< 0.01	0.010	< 0.04
48: VIS-CV5-PEG-272	2.79	9.92	< 0.005	< 0.04	< 0.01	0.016	< 0.04
49: VIS-CV5-PEG-273	2.49	8.96	0.007	< 0.04	< 0.01	0.021	< 0.04
50: VIS-CV5-PEG-274	20.5	66.6	0.007	< 0.04	< 0.01	0.104	0.42
51: VIS-CV5-PEG-275	2.29	8.32	< 0.005	< 0.04	< 0.01	0.019	< 0.04
52: VIS-CV5-PEG-276	1.79	6.72	< 0.005	< 0.04	< 0.01	0.016	< 0.04

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N

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Parameter	Units	SGS Method Code	CALA	PALA
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11022-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234	11: VIS-CV5-MS-235
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	25-Mar-25	13:32	25-Mar-25	13:34	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	7100	3600	9500	16000	21000	12000	12000
As [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2.7	17	0.9	48	15	59	96
B [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2	8	2	4	4	2	4
Ba [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	51	23	68	41	42	55	91
Be [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.04	1.0	0.42	2.4	3.2	0.43	0.52
Bi [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.12	0.23	0.21	0.22	< 0.09	0.32	0.38
Ca [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	6600	6600	2800	960	1400	930	3300
Cd [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.88	0.15	< 0.02	0.24	< 0.02	0.06	0.06
Co [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	26	8.4	9.5	11	11	9.0	5.8
Cr [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	76	51	82	75	60	44	27
Cu [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	87	25	37	49	18	36	8.6
Fe [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	27000	7900	26000	20000	28000	18000	20000
K [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	2100	570	3700	3000	2600	4700	4100
Li [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	101	40	74	417	594	430	455
Mg [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	4300	2386	3606	16000	22000	5700	5200

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-2 29	6: VIS-CV5-MS-2 30	7: VIS-CV5-MS-2 31	8: VIS-CV5-MS-2 32	9: VIS-CV5-MS-2 33	10: VIS-CV5-MS-2 34	11: VIS-CV5-MS-2 35
Mn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	244	108	107	358	403	212	367
Mo [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.3	1.4	2.5	1.9	1.3	1.3	1.7
Na [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	640	600	490	220	280	310	390
Ni [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	80	21	24	21	21	19	5.7
P [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	230	870	180	140	310	80	520
Pb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	21	6.0	1.9	9.9	1.3	2.8	5.7
Sb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 0.8	4.5	< 0.8	11	1.0	0.8	3.1
Se [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.6	0.1	0.2	0.1	< 0.1	0.1	< 0.1
Sn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	7.2	6.5	5.4	2.9	2.8	3.3	6.1
Ti [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	712	251	547	680	860	720	1000
Tl [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.40	0.36	1.2	0.99	0.31	1.2	1.6
U [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	0.15	2.0	0.73	1.4	0.66	1.5	1.1
V [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	39	15	30	51	55	24	26
Zn [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	470	32	26	70	20	59	39
Au [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.02	---	---	---	< 0.02
Ce [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	15.5	---	---	---	37.1
Cs [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	84	---	---	---	164
Dy [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.41	---	---	---	1.93
Er [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.15	---	---	---	0.90
Eu [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.20	---	---	---	0.38
Ga [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	5	---	---	---	6
Gd [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.94	---	---	---	2.80
Ge [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	1.0	---	---	---	1.2
Hf [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.1	---	---	---	0.3
Ho [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.063	---	---	---	0.35
In [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.01	---	---	---	0.01
Ir [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.01	---	---	---	< 0.01
La [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	8.61	---	---	---	19.0
Lu [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.015	---	---	---	0.082
Nb [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.2	---	---	---	0.2
Nd [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	5.7	---	---	---	14.7
Os [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.1	---	---	---	< 0.1

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-2 29	6: VIS-CV5-MS-2 30	7: VIS-CV5-MS-2 31	8: VIS-CV5-MS-2 32	9: VIS-CV5-MS-2 33	10: VIS-CV5-MS-2 34	11: VIS-CV5-MS-2 35
Pd [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.2	---	---	---	< 0.2
Pr [µg/g]	20-Mar-25	14:17	24-Mar-25	11:11	---	---	1.63	---	---	---	4.09
Pt [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	< 0.1	---	---	---	< 0.1
Rh [µg/g]	20-Mar-25	14:17	24-Mar-25	16:48	---	---	< 0.01	---	---	---	< 0.01
Rb [µg/g]	20-Mar-25	14:17	24-Mar-25	11:10	---	---	131	---	---	---	188
Re [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.05	---	---	---	< 0.05
Ru [µg/g]	19-Mar-25	15:25	24-Mar-25	16:49	---	---	< 0.01	---	---	---	< 0.01
Sm [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	1.02	---	---	---	2.79
Sc [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	2	---	---	---	4
Ta [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.07	---	---	---	0.04
Tb [µg/g]	20-Mar-25	14:17	24-Mar-25	11:09	---	---	0.095	---	---	---	0.38
Te [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	0.1	---	---	---	< 0.1
Th [µg/g]	19-Mar-25	15:25	21-Mar-25	09:52	---	---	4.4	---	---	---	7.0
Tm [µg/g]	20-Mar-25	14:17	24-Mar-25	11:10	---	---	0.018	---	---	---	0.11

Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11000	7700	16000	9700	13000	15000	12000	7800	19000	19000	12000
As [µg/g]	1.2	0.9	50	5.6	1.6	34	7.5	22	160	4.9	22
B [µg/g]	3	5	21	38	5	5	8	3	3	21	3
Ba [µg/g]	23	32	86	37	85	130	97	23	150	110	85
Be [µg/g]	0.56	0.88	0.46	0.26	0.11	0.51	0.26	0.62	0.38	0.25	0.52
Bi [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	0.10	0.17	< 0.09	< 0.09	< 0.09	< 0.09	0.26
Ca [µg/g]	5300	1900	7100	7500	2500	1800	5500	3200	9500	7700	2200
Cd [µg/g]	< 0.02	< 0.02	0.07	0.03	0.05	0.08	0.04	< 0.02	0.05	0.04	0.08
Co [µg/g]	4.2	3.2	8.8	20	7.3	7.6	7.2	6.4	15	9.8	4.7
Cr [µg/g]	46	39	24	58	40	64	41	71	29	22	27
Cu [µg/g]	28	6.3	24	43	35	14	22	11	20	19	8.4

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Fe [µg/g]	13000	6600	24000	21000	17000	20000	20000	13000	23000	27000	16000
K [µg/g]	1400	2000	4500	1000	7000	8700	5200	600	7500	8400	5300
Li [µg/g]	88	53	441	265	347	564	265	214	363	533	511
Mg [µg/g]	6100	5200	7400	7100	6400	7800	5100	7600	6700	7700	5300
Mn [µg/g]	246	126	456	226	395	431	342	241	280	481	371
Mo [µg/g]	0.4	0.9	0.6	0.5	0.6	2.0	0.8	1.5	1.6	0.9	2.8
Na [µg/g]	400	440	390	540	550	440	420	480	1000	540	280
Ni [µg/g]	7.4	6.0	9.9	64	16	18	13	18	22	12	6.6
P [µg/g]	560	610	400	770	150	200	380	62	560	520	200
Pb [µg/g]	3.5	1.3	4.0	1.9	3.1	2.4	2.6	1.1	3.3	4.9	8.1
Sb [µg/g]	< 0.8	< 0.8	4.3	21	< 0.8	3.2	1.6	2.4	1.5	0.9	2.8
Se [µg/g]	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	6.0	6.8	7.8	6.3	5.9	3.5	7.4	3.8	20	12	4.4
Ti [µg/g]	530	150	1300	900	1100	1300	1200	700	1200	1800	1100
Tl [µg/g]	0.11	0.13	0.73	0.18	0.82	3.0	0.68	0.20	0.43	2.6	6.1
U [µg/g]	0.58	1.9	0.81	0.22	1.3	1.4	0.67	1.3	0.53	0.85	1.8
V [µg/g]	35	25	63	40	30	31	35	25	58	88	23
Zn [µg/g]	21	30	45	52	39	38	40	18	48	50	36
Au [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	---	22.2	---	---	---	19.8	---	---	---
Cs [µg/g]	---	---	---	19	---	---	---	24	---	---	---
Dy [µg/g]	---	---	---	0.67	---	---	---	0.49	---	---	---
Er [µg/g]	---	---	---	0.32	---	---	---	0.23	---	---	---
Eu [µg/g]	---	---	---	0.38	---	---	---	0.18	---	---	---
Ga [µg/g]	---	---	---	6	---	---	---	6	---	---	---
Gd [µg/g]	---	---	---	1.41	---	---	---	0.92	---	---	---
Ge [µg/g]	---	---	---	1.1	---	---	---	0.7	---	---	---
Hf [µg/g]	---	---	---	< 0.1	---	---	---	0.2	---	---	---
Ho [µg/g]	---	---	---	0.12	---	---	---	0.086	---	---	---
In [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Ir [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	---	10.2	---	---	---	10.6	---	---	---

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Analysis	12: VIS-CV5-MS-2 36	13: VIS-CV5-MS-2 37	14: VIS-CV5-MS-2 38	15: VIS-CV5-MS-2 39	16: VIS-CV5-MS-2 40	17: VIS-CV5-MS-2 41	18: VIS-CV5-MS-2 42	19: VIS-CV5-MS-2 43	20: VIS-CV5-MS-2 44	21: VIS-CV5-MS-2 45	22: VIS-CV5-MS-2 46
Lu [µg/g]	---	---	---	0.034	---	---	---	0.026	---	---	---
Nb [µg/g]	---	---	---	0.1	---	---	---	0.2	---	---	---
Nd [µg/g]	---	---	---	9.7	---	---	---	6.7	---	---	---
Os [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	---	2.62	---	---	---	2.04	---	---	---
Pt [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Rb [µg/g]	---	---	---	18.9	---	---	---	29.7	---	---	---
Re [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---
Ru [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	---	1.59	---	---	---	0.99	---	---	---
Sc [µg/g]	---	---	---	3	---	---	---	3	---	---	---
Ta [µg/g]	---	---	---	0.02	---	---	---	0.02	---	---	---
Tb [µg/g]	---	---	---	0.16	---	---	---	0.10	---	---	---
Te [µg/g]	---	---	---	< 0.1	---	---	---	0.1	---	---	---
Th [µg/g]	---	---	---	2.3	---	---	---	4.1	---	---	---
Tm [µg/g]	---	---	---	0.038	---	---	---	0.030	---	---	---

Analysis	23: VIS-CV5-MS-2 47	24: VIS-CV5-MS-2 48	25: VIS-CV5-MS-2 49	26: VIS-CV5-MS-2 50	27: VIS-CV5-MS-2 51	28: VIS-CV5-MS-2 52	29: VIS-CV5-MS-2 53	30: VIS-CV5-MS-2 54	31: VIS-CV5-MS-2 55	32: VIS-CV5-MS-2 56	33: VIS-CV5-MS-2 57
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	15000	17000	18000	5400	15000	8400	7500	19000	12000	14000	3300
As [µg/g]	15	29	13	2.7	5.7	28	8.5	41	20	5.0	1.5
B [µg/g]	3	3	5	1	17	12	3	30	10	7	8
Ba [µg/g]	110	120	170	2.5	40	23	56	150	100	85	30
Be [µg/g]	0.39	0.20	0.67	0.07	0.32	4.8	0.18	1.4	0.33	0.28	0.15
Bi [µg/g]	0.10	< 0.09	< 0.09	< 0.09	< 0.09	0.54	0.39	0.09	< 0.09	< 0.09	< 0.09
Ca [µg/g]	3000	9400	6800	9400	7900	4400	4100	8100	4200	5300	2500

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	23: VIS-CV5-MS-2 47	24: VIS-CV5-MS-2 48	25: VIS-CV5-MS-2 49	26: VIS-CV5-MS-2 50	27: VIS-CV5-MS-2 51	28: VIS-CV5-MS-2 52	29: VIS-CV5-MS-2 53	30: VIS-CV5-MS-2 54	31: VIS-CV5-MS-2 55	32: VIS-CV5-MS-2 56	33: VIS-CV5-MS-2 57
Cd [µg/g]	0.15	0.07	0.05	< 0.02	0.02	0.13	0.09	0.06	0.06	0.09	< 0.02
Co [µg/g]	5.5	9.5	7.9	8.6	9.7	8.0	11	13	9.6	13	6.3
Cr [µg/g]	25	29	30	16	20	65	60	105	57	70	42
Cu [µg/g]	25	9.9	26	14	21	27	43	23	26	40	24
Fe [µg/g]	20000	25000	23000	23000	19000	14000	58000	23000	18000	24000	3200
K [µg/g]	7700	6400	8100	120	1900	900	1800	6700	3800	3800	860
Li [µg/g]	656	532	648	20	213	279	130	564	434	347	14
Mg [µg/g]	5700	7100	7500	2000	9100	5600	2000	10000	5300	6000	490
Mn [µg/g]	366	364	431	153	340	353	140	491	365	270	39
Mo [µg/g]	1.6	1.3	1.7	1.2	1.1	1.5	2.2	1.9	1.5	1.1	2.1
Na [µg/g]	570	370	620	500	410	270	890	410	570	700	510
Ni [µg/g]	3.2	13	8.0	1.4	15	16	34	39	21	29	12
P [µg/g]	270	350	370	580	570	1000	370	300	250	270	190
Pb [µg/g]	8.4	3.7	4.1	0.82	4.2	2.1	1.9	3.5	3.5	3.6	6.5
Sb [µg/g]	2.3	3.0	2.3	< 0.8	< 0.8	5.4	1.1	11	5.5	2.6	< 0.8
Se [µg/g]	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.4	< 0.1	< 0.1	0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	20	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	8.2	9.7	12	4.4	8.7	4.8	14	9.0	9.4	11	6.9
Ti [µg/g]	1200	1400	1500	220	920	560	310	1200	930	910	190
Tl [µg/g]	4.2	0.47	2.4	< 0.02	0.16	1.2	0.62	3.2	1.1	0.28	0.04
U [µg/g]	1.0	0.74	0.88	0.46	0.42	1.1	0.61	0.88	0.85	0.40	1.1
V [µg/g]	34	34	45	2	39	34	22	43	41	56	6
Zn [µg/g]	36	47	37	9.1	34	47	25	47	50	50	8.5
Au [µg/g]	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02	---	---
Ce [µg/g]	45.7	---	---	---	29.3	---	---	---	25.8	---	---
Cs [µg/g]	541	---	---	---	11	---	---	---	93	---	---
Dy [µg/g]	2.05	---	---	---	0.80	---	---	---	0.80	---	---
Er [µg/g]	0.91	---	---	---	0.32	---	---	---	0.32	---	---
Eu [µg/g]	0.46	---	---	---	0.35	---	---	---	0.31	---	---
Ga [µg/g]	7	---	---	---	6	---	---	---	6	---	---
Gd [µg/g]	3.24	---	---	---	1.69	---	---	---	1.56	---	---
Ge [µg/g]	1.4	---	---	---	1.2	---	---	---	1.0	---	---
Hf [µg/g]	0.5	---	---	---	< 0.1	---	---	---	0.2	---	---

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Analysis	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257
Ho [µg/g]	0.36	---	---	---	0.14	---	---	---	0.13	---	---
In [µg/g]	0.03	---	---	---	0.01	---	---	---	< 0.01	---	---
Ir [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
La [µg/g]	23.1	---	---	---	14.7	---	---	---	13.2	---	---
Lu [µg/g]	0.086	---	---	---	0.026	---	---	---	0.027	---	---
Nb [µg/g]	0.2	---	---	---	< 0.1	---	---	---	0.1	---	---
Nd [µg/g]	18.1	---	---	---	11.8	---	---	---	10.0	---	---
Os [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Pd [µg/g]	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2	---	---
Pr [µg/g]	5.08	---	---	---	3.27	---	---	---	2.81	---	---
Pt [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Rh [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
Rb [µg/g]	676	---	---	---	19.8	---	---	---	135	---	---
Re [µg/g]	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05	---	---
Ru [µg/g]	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01	---	---
Sm [µg/g]	3.34	---	---	---	1.88	---	---	---	1.68	---	---
Sc [µg/g]	6	---	---	---	4	---	---	---	5	---	---
Ta [µg/g]	0.02	---	---	---	0.01	---	---	---	0.02	---	---
Tb [µg/g]	0.41	---	---	---	0.19	---	---	---	0.18	---	---
Te [µg/g]	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1	---	---
Th [µg/g]	7.5	---	---	---	3.7	---	---	---	4.1	---	---
Tm [µg/g]	0.12	---	---	---	0.035	---	---	---	0.036	---	---

Analysis	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-259	36: VIS-CV5-PEG-260	37: VIS-CV5-PEG-261	38: VIS-CV5-PEG-262	39: VIS-CV5-PEG-263	40: VIS-CV5-PEG-264	41: VIS-CV5-PEG-265	42: VIS-CV5-PEG-266	43: VIS-CV5-PEG-267	44: VIS-CV5-PEG-268
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	11000	4300	2100	4300	1700	2300	1800	1800	1900	2300	2100
As [µg/g]	11	104	4.3	18	21	20	22	16	3.8	2.8	2.2
B [µg/g]	2	27	7	4	6	5	8	3	3	5	2

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Analysis	34: VIS-CV5-MS-2 58	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68
Ba [µg/g]	110	49	2.5	4.3	1.7	6.3	0.64	1.8	2.6	1.4	1.4
Be [µg/g]	0.08	2.8	1.5	1.4	0.70	1.5	1.4	0.44	5.0	6.6	14.9
Bi [µg/g]	< 0.09	0.59	4.4	1.1	0.27	2.8	0.77	0.14	1.5	7.6	0.65
Ca [µg/g]	3200	3900	1700	960	1200	840	750	750	1600	1300	1800
Cd [µg/g]	< 0.02	0.03	0.10	0.10	0.13	0.08	0.04	0.04	0.04	0.07	0.07
Co [µg/g]	13	6.2	0.50	1.2	0.23	0.21	0.27	0.56	0.48	0.44	0.81
Cr [µg/g]	44	37	79	60	65	47	41	45	66	107	111
Cu [µg/g]	18	55	2.7	82	0.8	0.6	0.9	2.0	1.3	1.9	2.3
Fe [µg/g]	22000	7200	1300	4200	1300	1400	820	1100	1200	1700	2400
K [µg/g]	4400	810	1400	650	420	890	230	310	1300	1200	670
Li [µg/g]	53	96	54	187	57	61	26	27	59	122	62
Mg [µg/g]	6500	2400	310	3800	73	710	150	310	300	300	880
Mn [µg/g]	202	137	100	201	83	66	37	47	56	236	147
Mo [µg/g]	1.1	1.2	3.2	0.4	2.4	1.9	1.5	1.5	0.8	3.8	1.0
Na [µg/g]	450	590	330	340	1000	730	1500	1100	360	350	630
Ni [µg/g]	17	15	2.1	2.3	1.7	1.1	1.1	1.1	3.3	2.4	2.8
P [µg/g]	310	290	630	340	480	310	270	180	600	550	590
Pb [µg/g]	2.5	7.4	1.7	2.0	1.7	1.4	0.88	1.6	1.6	1.3	0.97
Sb [µg/g]	< 0.8	6.0	1.1	4.6	3.6	2.9	2.4	2.0	1.1	1.0	< 0.8
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	7	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	6.5	5.6	5.8	3.0	2.4	3.9	1.4	1.4	5.1	5.6	5.5
Ti [µg/g]	910	290	3.9	4.9	2.1	1.4	6.2	2.3	1.6	3.2	3.8
Tl [µg/g]	0.09	0.80	1.5	0.68	0.59	0.52	0.32	0.15	1.5	1.7	0.77
U [µg/g]	0.66	2.2	0.25	0.74	18	2.1	9.3	12	0.25	0.39	0.35
V [µg/g]	26	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	40	26	4.1	7.0	1.5	3.8	2.0	1.2	2.1	4.3	4.9
Au [µg/g]	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	---	27.4	1.01	0.64	1.14	0.44	0.52	0.27	0.76	0.42	0.61
Cs [µg/g]	---	112	34	42	38	50	20	9	36	60	25
Dy [µg/g]	---	0.68	0.11	0.12	0.20	0.12	0.12	0.075	0.065	0.053	0.10
Er [µg/g]	---	0.31	0.028	0.038	0.030	0.015	0.019	0.016	0.022	0.015	0.031
Eu [µg/g]	---	0.22	0.028	0.034	0.037	0.017	0.018	0.022	0.039	0.032	0.034

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Analysis	34: VIS-CV5-MS-2 58	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68
Ga [µg/g]	---	3	2	7	2	3	2	2	2	3	3
Gd [µg/g]	---	1.40	0.15	0.16	0.35	0.16	0.19	0.100	0.096	0.082	0.15
Ge [µg/g]	---	0.6	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	---	0.2	< 0.1	0.2	0.7	0.4	0.5	0.4	0.2	0.1	0.1
Ho [µg/g]	---	0.11	0.014	0.019	0.017	0.009	0.010	0.008	0.013	0.008	0.012
In [µg/g]	---	0.01	< 0.01	0.05	< 0.01	0.02	0.01	< 0.01	0.01	0.02	0.02
Ir [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	---	15.3	0.51	0.30	0.36	0.24	0.25	0.20	0.38	0.22	0.27
Lu [µg/g]	---	0.029	0.003	0.005	0.003	0.002	0.002	0.002	0.008	0.002	0.002
Nb [µg/g]	---	0.4	0.2	0.3	0.9	0.3	0.8	0.8	0.2	0.4	0.3
Nd [µg/g]	---	9.6	0.43	0.36	0.58	0.18	0.21	0.13	0.32	0.21	0.35
Os [µg/g]	---	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	---	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	---	2.80	0.11	0.085	0.16	0.049	0.061	0.036	0.094	0.050	0.078
Pt [µg/g]	---	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	---	97.1	225	117	93.5	77.3	44.9	20.6	224	310	129
Re [µg/g]	---	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	---	1.45	0.13	0.13	0.26	0.13	0.16	0.081	0.088	0.072	0.12
Sc [µg/g]	---	0.92	0.09	0.31	0.03	0.19	0.04	0.04	0.05	0.08	0.11
Ta [µg/g]	---	0.19	0.01	0.04	0.02	0.02	0.01	0.01	0.01	0.02	0.02
Tb [µg/g]	---	0.16	0.033	0.043	0.064	0.045	0.045	0.023	0.027	0.023	0.040
Te [µg/g]	---	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	---	7.4	1.3	3.4	4.5	2.3	6.3	2.6	0.80	1.5	1.1
Tm [µg/g]	---	0.040	0.006	0.018	0.004	0.012	0.008	0.004	0.013	0.012	0.017

Analysis	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74	51: VIS-CV5-PEG-2 75	52: VIS-CV5-PEG-2 76
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Analysis	45: VIS-CV5-PEG-269	46: VIS-CV5-PEG-270	47: VIS-CV5-PEG-271	48: VIS-CV5-PEG-272	49: VIS-CV5-PEG-273	50: VIS-CV5-PEG-274	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	1900	2800	1500	2200	1800	9000	1600	1700
As [µg/g]	10	31	12	11	9.3	236	4.1	12
B [µg/g]	7	2	4	5	3	4	2	3
Ba [µg/g]	0.82	0.47	0.81	1.1	2.9	0.49	1.1	1.8
Be [µg/g]	0.99	1.1	0.68	12.4	2.0	5.3	3.1	0.70
Bi [µg/g]	2.0	0.20	0.43	0.13	0.40	1.4	8.8	2.1
Ca [µg/g]	1000	2700	580	950	710	5900	850	810
Cd [µg/g]	0.13	0.04	0.16	0.07	0.11	0.40	0.04	0.09
Co [µg/g]	0.17	4.7	0.21	0.32	0.25	4.4	0.17	0.21
Cr [µg/g]	59	58	78	54	52	65	39	56
Cu [µg/g]	0.6	6.3	0.6	1.2	1.0	2.9	0.7	0.7
Fe [µg/g]	1000	3300	1100	1500	990	12000	670	1100
K [µg/g]	1200	52	1300	600	1600	55	1400	1000
Li [µg/g]	50	49	21	29	14	167	20	42
Mg [µg/g]	61	2800	26	900	120	14000	110	190
Mn [µg/g]	132	66	58	51	75	276	49	71
Mo [µg/g]	1.9	2.1	0.7	0.3	0.4	0.5	1.2	1.8
Na [µg/g]	540	790	420	720	500	450	450	490
Ni [µg/g]	1.4	2.9	1.8	1.7	1.4	19	0.9	1.3
P [µg/g]	310	210	250	390	260	1700	320	330
Pb [µg/g]	6.0	4.3	0.72	0.71	1.4	86	1.4	1.3
Sb [µg/g]	2.6	1.1	2.3	1.9	1.9	4.3	2.0	1.9
Se [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	2.7	3.6	2.1	1.1	3.0	11	2.2	2.2
Ti [µg/g]	2.7	5.2	1.4	4.9	5.8	38	1.3	2.6
Tl [µg/g]	1.2	0.05	1.3	0.42	1.4	0.10	1.1	0.97
U [µg/g]	28	2.4	1.0	2.1	0.52	5.0	1.2	2.1
V [µg/g]	< 1	< 1	< 1	< 1	< 1	12	< 1	< 1
Zn [µg/g]	3.6	4.6	2.1	3.0	4.5	19	1.7	4.2
Au [µg/g]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	2.81	1.12	0.17	0.51	0.40	0.98	0.26	0.36

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Cs [µg/g]	59	3	28	12	23	25	26	27
Dy [µg/g]	0.95	0.33	0.10	0.20	0.075	0.76	0.14	0.23
Er [µg/g]	0.15	0.18	0.009	0.036	0.009	0.20	0.017	0.032
Eu [µg/g]	0.004	0.065	0.002	0.025	0.008	0.10	0.010	0.013
Ga [µg/g]	2	4	1	3	2	9	1	2
Gd [µg/g]	1.53	0.31	0.14	0.29	0.12	0.93	0.21	0.25
Ge [µg/g]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.5	< 0.3	< 0.3
Hf [µg/g]	0.9	0.2	0.2	0.2	0.2	0.3	0.3	0.2
Ho [µg/g]	0.081	0.068	0.006	0.017	0.005	0.089	0.009	0.018
In [µg/g]	0.03	0.02	0.01	0.03	0.02	0.03	0.01	0.02
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	1.06	0.49	0.079	0.19	0.17	0.36	0.14	0.14
Lu [µg/g]	0.017	0.019	0.001	0.003	< 0.001	0.024	< 0.001	0.002
Nb [µg/g]	2.5	0.5	0.2	0.4	0.3	0.2	0.4	0.3
Nd [µg/g]	1.4	0.70	0.072	0.35	0.17	0.93	0.13	0.18
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	0.38	0.15	0.019	0.079	0.050	0.18	0.034	0.051
Pt [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	192	7.29	197	84.8	216	9.99	156	140
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	1.52	0.25	0.10	0.25	0.091	0.60	0.14	0.18
Sc [µg/g]	0.32	0.31	0.05	0.16	0.09	1	0.03	0.08
Ta [µg/g]	0.02	0.04	< 0.01	0.02	< 0.01	0.05	0.01	0.01
Tb [µg/g]	0.30	0.073	0.051	0.084	0.044	0.21	0.060	0.084
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	14	1.1	1.2	2.6	1.6	4.0	1.6	0.84
Tm [µg/g]	0.038	0.039	0.016	0.020	0.017	0.042	0.018	0.021

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Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

Accreditation Descriptions

CALA:
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Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD — THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0040-MAR25													
Mercury	0.05	ug/g	<0.05			1	20	90	80	120	91	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0145-MAR25													
Germanium	0.3	µg/g				ND	20	100	70	130	NV	70	130
Gold	0.02	µg/g	<0.02			ND	20	86	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	96	70	130	NV	70	130
Iridium	0.01	µg/g				ND	20	105	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	110	70	130	NV	70	130
Osmium	0.1	µg/g				ND	20	92	70	130	NV	70	130
Palladium	0.2	µg/g	<0.2			ND	20	97	70	130	NV	70	130
Platinum	0.1	µg/g	<0.1			ND	20	100	70	130	NV	70	130
Rhenium	0.05	µg/g				ND	20	99	70	130	NV	70	130
Rhodium	0.01	µg/g				ND	20	97	70	130	NV	70	130
Ruthenium	0.01	µg/g				ND	20	100	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			13	20	106	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	96	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0183-MAR25													
Cerium	0.001	µg/g	< 0.001			10	20	95	70	130			
Cesium	0.01	µg/g	< 0.01			7	20	99	70	130			
Dysprosium	0.001	µg/g	< 0.001			12	20	89	70	130			
Erbium	0.001	µg/g	< 0.001			7	20	88	70	130			
Europium	0.001	µg/g	< 0.001			6	20	88	70	130			
Gadolinium	0.001	µg/g	< 0.001			8	20	93	70	130			
Gallium	0.03	µg/g	< 0.03			1	20	97	70	130			
Holmium	0.001	µg/g	< 0.001			1	20	89	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Lanthanum	0.001	µg/g	< 0.001			6	20	95	70	130			
Lutetium	0.001	µg/g	< 0.001			ND	20	88	70	130			
Neodymium	0.006	µg/g	< 0.006			1	20	91	70	130			
Praseodymium	0.001	µg/g	< 0.001			8	20	91	70	130			
Rubidium	0.004	µg/g	< 0.004			6	20	103	70	130			
Samarium	0.001	µg/g	< 0.001			13	20	91	70	130			
Scandium	0.03	µg/g	< 0.03			9	20	102	70	130			
Terbium	0.001	µg/g	< 0.001			6	20	91	70	130			
Thulium	0.001	µg/g	< 0.001			1	20	87	70	130			
Metals, ICP-MS - QCBatchID: EMS0145-MAR25													

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11022-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Aluminum	3	µg/g	<3			0	20	99	70	130	76	70	130
Antimony	0.8	µg/g	<0.8			ND	20	102	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			11	20	100	70	130	89	70	130
Barium	0.01	µg/g	<0.01			0	20	103	70	130	74	70	130
Beryllium	0.02	µg/g	<0.02			5	20	99	70	130	95	70	130
Bismuth	0.09	µg/g	<0.09			4	20	99	70	130	NV	70	130
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			0	20	99	70	130	96	70	130
Calcium	3	µg/g	<3			0	20	101	70	130	78	70	130
Chromium	0.5	µg/g	<0.5			1	20	100	70	130	83	70	130
Cobalt	0.01	µg/g	<0.01			3	20	100	70	130	74	70	130
Copper	0.1	µg/g	<0.1			3	20	108	70	130	73	70	130
Iron	3	µg/g	<3			1	20	103	70	130	88	70	130
Lead	0.05	µg/g	<0.05			2	20	101	70	130	79	70	130
Lithium	2	µg/g	<2			3	20	97	70	130	91	70	130
Magnesium	3	µg/g	<1			1	20	99	70	130	79	70	130
Manganese	0.1	µg/g	<0.1			0	20	99	70	130	77	70	130
Molybdenum	0.1	µg/g	<0.1			3	20	102	70	130	101	70	130
Nickel	0.1	µg/g	<0.1			1	20	99	70	130	75	70	130
Phosphorus	3	µg/g	<3			2	20	105	70	130	NV	70	130
Potassium	3	µg/g	<3			0	20	102	70	130	73	70	130
Selenium	0.1	µg/g	<0.1			1	20	105	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	99	70	130	85	70	130
Sodium	3	µg/g	<3			1	20	100	70	130	79	70	130
Strontium	0.02	µg/g	<0.02			2	20	100	70	130	76	70	130
Thallium	0.02	µg/g	<0.02			3	20	100	70	130	NV	70	130
Thorium	0.01	µg/g	<0.5			0	20	96	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	98	70	130	91	70	130
Titanium	0.1	µg/g	<0.1			0	20	99	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			7	20	97	70	130	70	70	130
Vanadium	1	µg/g	<1			1	20	100	70	130	87	70	130
Zinc	0.7	µg/g	<0.7			1	20	99	70	130	74	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

17-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11023-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
Sample Date & Time					NA	NA	NA	NA	NA	NA
Sample weight [g]	24-Mar-25	13:45	28-Mar-25	15:03	21	21	20	20	21	20
Ext Fluid [#1 or #2]	24-Mar-25	14:20	28-Mar-25	15:03	1	1	1	1	1	1
Ext Volume [mL]	24-Mar-25	14:20	28-Mar-25	15:03	400	400	400	400	400	400
pH [No unit]	25-Mar-25	13:50	01-Apr-25	09:24	8.44	8.59	7.58	8.00	8.25	8.02
Conductivity [uS/cm]	25-Mar-25	13:50	02-Apr-25	13:27	80	73	61	43	42	52
Alkalinity [mg/L as CaCO3]	25-Mar-25	13:50	01-Apr-25	09:26	28	29	11	16	15	18
Acidity [mg/L as CaCO3]	25-Mar-25	13:50	01-Apr-25	09:28	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	26-Mar-25	07:53	01-Apr-25	12:27	< 0.06	0.11	0.42	0.17	0.11	0.08
Br [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	25-Mar-25	21:09	01-Apr-25	09:44	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	26-Mar-25	15:46	31-Mar-25	17:13	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hg [mg/L]	27-Mar-25	15:06	02-Apr-25	10:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Apr-25	12:39	03-Apr-25	12:49	0.491	0.456	0.075	0.537	0.644	0.669

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
As [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.0026	0.0241	< 0.0002	0.0267	0.0210	0.0093
Ba [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00293	0.00126	0.00168	0.00160	0.00148	0.00287
Be [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.000007	0.000037	< 0.000007	0.000080	0.000066	0.000019
B [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.022	0.043	0.029	0.037	0.035	0.029
Bi [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00004
Ca [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	7.71	7.44	4.32	1.05	0.99	3.27
Cd [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	0.000004
Co [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.000066	0.000199	0.000037	0.000258	0.000225	0.000161
Cr [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00064	0.00025	0.00039	0.00057	0.00033	0.00044
Cu [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.144	0.090	0.053	0.220	0.236	0.237
K [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	1.83	0.549	1.99	1.77	1.60	2.20
Li [mg/L]	01-Apr-25	12:39	03-Apr-25	12:49	0.0252	0.0129	0.0177	0.0572	0.0670	0.0861
Mg [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.690	0.528	0.474	0.667	0.695	0.409
Mn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00359	0.00180	0.00248	0.00525	0.00399	0.00413
Mo [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.0004	0.0027	< 0.0004	< 0.0004	0.0005	< 0.0004
Na [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	5.37	5.43	3.89	5.47	5.78	5.06
Ni [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.0004	0.0005	0.0011	0.0008	0.0003	0.0003
P [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.003	0.020	< 0.003	< 0.003	< 0.003	< 0.003
Pb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00033	0.00016	< 0.00009	0.00025	< 0.00009	0.00027
Sb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.0009	0.0076	< 0.0009	0.0459	0.0045	0.0029
Se [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00016	0.00045	< 0.00004	< 0.00004	< 0.00004	0.00007
Si [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	1.86	2.08	0.99	1.78	1.76	1.80
Sn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	< 0.00006	0.00007	< 0.00006	0.00023	0.00009	0.00007
Sr [mg/L]	01-Apr-25	12:39	02-Apr-25	12:38	0.00874	0.0117	0.00605	0.00301	0.00346	0.00603
Ti [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.0039	0.0023	0.0024	0.0119	0.0109	0.0146
Tl [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	< 0.000005	0.000007	0.000014	0.000051	0.000021	0.000034
U [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.000011	0.000275	0.000033	0.000058	0.000024	0.000084
V [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	0.00198	0.00549	0.00017	0.00200	0.00195	0.00134
Zn [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ce [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00028	---	---	---
Cs [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	0.0023	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	6: VIS-CV5-MS-230	7: VIS-CV5-MS-231	8: VIS-CV5-MS-232	9: VIS-CV5-MS-233	10: VIS-CV5-MS-234
Dy [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Er [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Eu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ga [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00002	---	---	---
Ge [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Hf [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ho [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
In [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Ir [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
La [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00014	---	---	---
Lu [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Nb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Nd [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00010	---	---	---
Os [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Pd [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Pr [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00003	---	---	---
Pt [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Rh [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Rb [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	0.0232	---	---	---
Re [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ru [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Sm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	0.00002	---	---	---
Sc [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Ta [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Tb [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---
Te [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Th [mg/L]	01-Apr-25	12:39	02-Apr-25	12:37	---	---	< 0.0001	---	---	---
Tm [mg/L]	29-Mar-25	12:06	02-Apr-25	12:37	---	---	< 0.00001	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	19	20	20	21	21	20	20	21	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.98	8.42	8.33	8.23	8.16	8.32	7.88	8.16	8.12	8.38
Conductivity [uS/cm]	61	64	48	62	62	64	48	60	58	61
Alkalinity [mg/L as CaCO3]	27	27	16	29	27	23	17	26	27	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.17	< 0.06	0.07	0.22	< 0.06	0.06	0.17	0.11	< 0.06	0.12
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	0.04	< 0.03	< 0.03	< 0.03	< 0.03	0.03	0.03	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.670	0.797	0.690	0.696	0.625	0.654	0.548	0.628	0.461	0.782
As [mg/L]	0.0262	0.0021	0.0029	0.0140	0.0051	0.0017	0.0070	0.0095	0.0091	0.105
Ba [mg/L]	0.00239	0.00180	0.00321	0.00163	0.00090	0.00288	0.00286	0.00204	0.00090	0.00301
Be [mg/L]	0.000020	0.000023	0.000058	0.000007	< 0.000007	0.000007	0.000060	0.000010	0.000016	0.000014
B [mg/L]	0.030	0.025	0.055	0.030	0.023	0.023	0.041	0.025	0.027	0.030
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.61	4.72	1.68	5.18	6.02	4.43	2.08	5.39	5.43	5.29
Cd [mg/L]	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000109	0.000046	0.000081	0.000047	0.000046	0.000118	0.000182	0.000045	0.000052	0.000165
Cr [mg/L]	0.00008	0.00050	0.00058	< 0.00008	0.00022	0.00041	0.00056	0.00017	0.00035	0.00017
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.189	0.121	0.135	0.097	0.058	0.207	0.310	0.095	0.079	0.260
K [mg/L]	1.62	1.18	1.77	2.48	0.536	2.94	2.95	2.08	0.321	2.87
Li [mg/L]	0.0652	0.0052	0.0048	0.0700	0.0262	0.0565	0.0981	0.0404	0.0184	0.0721
Mg [mg/L]	0.347	0.377	0.369	0.363	0.511	0.386	0.443	0.306	0.527	0.356
Mn [mg/L]	0.00443	0.00247	0.00283	0.00226	0.00119	0.00694	0.00818	0.00218	0.00159	0.00436

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Mo [mg/L]	0.0008	0.0014	0.0014	< 0.0004	< 0.0004	< 0.0004	0.0005	0.0004	0.0005	< 0.0004
Na [mg/L]	5.86	6.43	6.83	5.22	4.98	4.36	5.24	4.73	5.14	5.00
Ni [mg/L]	0.0001	0.0001	0.0001	0.0002	0.0003	0.0002	0.0004	0.0001	0.0002	0.0003
P [mg/L]	0.011	0.008	0.019	0.006	0.005	< 0.003	0.004	0.005	< 0.003	0.012
Pb [mg/L]	0.00030	0.00021	0.00011	< 0.00009	< 0.00009	0.00022	0.00017	< 0.00009	< 0.00009	0.00028
Sb [mg/L]	0.0056	< 0.0009	0.0011	0.0068	0.0149	0.0011	0.0082	0.0034	0.0028	0.0032
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004
Si [mg/L]	1.96	2.27	2.17	2.06	2.27	2.04	1.87	2.00	2.32	2.27
Sn [mg/L]	0.00015	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00021	< 0.00006	< 0.00006	0.00014
Sr [mg/L]	0.00935	0.00591	0.00382	0.00833	0.00935	0.00696	0.00458	0.0104	0.00730	0.00620
Ti [mg/L]	0.0115	0.0126	0.0086	0.0073	0.0034	0.0154	0.0231	0.0065	0.0033	0.0166
Tl [mg/L]	0.000051	0.000006	0.000012	0.000014	< 0.000005	0.000017	0.000094	0.000010	< 0.000005	0.000031
U [mg/L]	0.000092	0.000092	0.000307	0.000048	0.000007	0.000154	0.000147	0.000034	0.000041	0.000037
V [mg/L]	0.00132	0.00351	0.00339	0.00296	0.00319	0.00178	0.00144	0.00203	0.00223	0.00292
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ce [mg/L]	0.00072	---	---	---	0.00006	---	---	---	0.00019	---
Cs [mg/L]	0.0120	---	---	---	0.0009	---	---	---	0.0016	---
Dy [mg/L]	0.00004	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Er [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Eu [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ga [mg/L]	0.0006	---	---	---	0.0006	---	---	---	0.0005	---
Gd (tot) [mg/L]	0.00006	---	---	---	< 0.00001	---	---	---	0.00002	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
La [mg/L]	0.00037	---	---	---	0.00003	---	---	---	0.00010	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Nd [mg/L]	0.00034	---	---	---	0.00003	---	---	---	0.00007	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	11: VIS-CV5-MS-235	12: VIS-CV5-MS-236	13: VIS-CV5-MS-237	14: VIS-CV5-MS-238	15: VIS-CV5-MS-239	16: VIS-CV5-MS-240	17: VIS-CV5-MS-241	18: VIS-CV5-MS-242	19: VIS-CV5-MS-243	20: VIS-CV5-MS-244
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Pr [mg/L]	0.00009	---	---	---	< 0.00001	---	---	---	0.00002	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Rb [mg/L]	0.0237	---	---	---	0.0033	---	---	---	0.0040	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Sm [mg/L]	0.00005	---	---	---	< 0.00001	---	---	---	0.00002	---
Sc [mg/L]	0.0001	---	---	---	< 0.0001	---	---	---	0.0001	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Th [mg/L]	0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---

Analysis	21: VIS-CV5-MS-245	22: VIS-CV5-MS-246	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	21	19	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.57	8.24	8.38	8.31	8.49	8.05	8.05	8.50	7.58	8.73
Conductivity [uS/cm]	62	56	57	63	59	62	58	63	82	59
Alkalinity [mg/L as CaCO3]	27	24	31	29	28	28	26	26	15	25
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.24	0.31	0.39	< 0.06	0.22	< 0.06	< 0.06	0.40	0.61	0.13
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	21: VIS-CV5-MS-245	22: VIS-CV5-MS-246	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.986	0.747	0.732	0.637	0.729	0.338	0.806	0.454	0.022	0.916
As [mg/L]	0.0099	0.0123	0.0446	0.0192	0.0169	0.0033	0.0069	0.0127	0.0005	0.0706
Ba [mg/L]	0.00326	0.00286	0.00286	0.00112	0.00258	0.00029	0.00246	0.00076	0.00186	0.00417
Be [mg/L]	0.000014	0.000039	0.000023	< 0.000007	0.000016	< 0.000007	0.000016	0.000102	< 0.000007	0.000034
B [mg/L]	0.029	0.027	0.032	0.024	0.024	0.021	0.031	0.059	0.032	0.040
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001
Ca [mg/L]	4.62	4.22	3.33	5.13	4.68	6.92	4.77	6.19	8.14	4.39
Cd [mg/L]	0.000003	0.000003	0.000008	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000175	0.000095	0.000162	0.000018	0.000110	0.000013	0.000066	0.000042	0.000027	0.000246
Cr [mg/L]	0.00026	0.00021	0.00027	< 0.00008	0.00013	< 0.00008	< 0.00008	0.00014	< 0.00008	0.00112
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.444	0.253	0.394	0.043	0.215	0.049	0.137	0.031	0.008	0.261
K [mg/L]	3.57	1.96	2.74	2.88	2.74	0.089	1.75	0.429	1.46	3.19
Li [mg/L]	0.100	0.0771	0.180	0.110	0.163	0.0029	0.0199	0.0320	0.0455	0.0963
Mg [mg/L]	0.439	0.331	0.375	0.328	0.399	0.364	0.461	0.489	0.421	0.504
Mn [mg/L]	0.00982	0.00742	0.01535	0.00077	0.00537	0.00056	0.00354	0.00094	0.00714	0.00769
Mo [mg/L]	< 0.0004	0.0023	< 0.0004	< 0.0004	< 0.0004	0.0006	0.0011	< 0.0004	0.0005	< 0.0004
Na [mg/L]	5.23	5.35	5.61	4.89	4.94	4.74	5.11	5.93	4.26	5.16
Ni [mg/L]	0.0003	0.0002	0.0002	< 0.0001	0.0001	< 0.0001	0.0002	< 0.0001	0.0009	0.0007
P [mg/L]	0.014	0.005	0.017	0.005	0.004	0.006	0.011	0.029	< 0.003	0.005
Pb [mg/L]	0.00043	0.00058	0.00091	< 0.00009	0.00019	< 0.00009	0.00015	< 0.00009	< 0.00009	0.00014
Sb [mg/L]	0.0028	0.0036	0.0140	0.0060	0.0054	< 0.0009	0.0014	0.0070	0.0011	0.0359
Se [mg/L]	< 0.00004	< 0.00004	0.00005	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00010	< 0.00004	0.00008
Si [mg/L]	2.48	2.12	2.11	1.83	2.03	1.69	2.23	1.45	1.08	2.88
Sn [mg/L]	< 0.00006	0.00011	0.00012	< 0.00006	< 0.00006	< 0.00006	0.00011	0.00011	< 0.00006	0.00008
Sr [mg/L]	0.00842	0.00677	0.00712	0.00751	0.0126	0.00484	0.00931	0.00875	0.00923	0.0154
Ti [mg/L]	0.0395	0.0176	0.0260	0.0031	0.0155	0.0011	0.0081	0.0024	0.0002	0.0180
Tl [mg/L]	0.000052	0.000129	0.000122	0.000007	0.000037	< 0.000005	0.000028	0.000027	< 0.000005	0.000062
U [mg/L]	0.000127	0.000149	0.000117	0.000029	0.000071	0.000053	0.000032	0.000069	0.000006	0.000103
V [mg/L]	0.00533	0.00143	0.00241	0.00146	0.00220	0.00027	0.00214	0.00242	0.00008	0.00339

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	21: VIS-CV5-MS-245	22: VIS-CV5-MS-246	23: VIS-CV5-MS-247	24: VIS-CV5-MS-248	25: VIS-CV5-MS-249	26: VIS-CV5-MS-250	27: VIS-CV5-MS-251	28: VIS-CV5-MS-252	29: VIS-CV5-MS-253	30: VIS-CV5-MS-254
Zn [mg/L]	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	0.00196	---	---	---	0.00025	---	---	---
Cs [mg/L]	---	---	0.0480	---	---	---	0.0006	---	---	---
Dy [mg/L]	---	---	0.00010	---	---	---	0.00001	---	---	---
Er [mg/L]	---	---	0.00004	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	0.0006	---	---	---	0.0007	---	---	---
Gd (tot) [mg/L]	---	---	0.00015	---	---	---	0.00002	---	---	---
Ge [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	0.00096	---	---	---	0.00012	---	---	---
Lu [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	0.00089	---	---	---	0.00011	---	---	---
Os [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	0.00024	---	---	---	0.00003	---	---	---
Pt [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	0.0830	---	---	---	0.0037	---	---	---
Re [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	0.00016	---	---	---	0.00002	---	---	---
Sc [mg/L]	---	---	0.0002	---	---	---	0.0001	---	---	---
Ta [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	0.00002	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	0.0002	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

OnLine LIMS

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Phone: 705-652-2000 FAX: 705-652-6365

SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	21	19	20	20	20	20	19	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.33	8.13	7.88	8.61	8.31	7.90	7.73	7.39	7.50	7.92
Conductivity [uS/cm]	61	59	46	58	58	39	40	26	24	41
Alkalinity [mg/L as CaCO3]	25	26	16	25	26	12	14	6	6	15
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.28	0.36	< 0.06	< 0.06	< 0.06	0.10	0.08	0.07	0.06	0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03	0.03	0.04	0.05
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.895	0.953	0.920	0.577	0.785	0.471	0.310	0.207	0.145	0.428
As [mg/L]	0.0407	0.0040	0.0022	0.0396	0.0217	0.0130	0.0106	0.0514	0.0176	0.0420
Ba [mg/L]	0.00350	0.00420	0.00146	0.00359	0.00227	0.00067	0.00173	0.00079	0.00080	0.00059
Be [mg/L]	0.000015	0.000009	< 0.000007	< 0.000007	0.000128	0.000106	0.000159	0.000066	0.000075	0.000220
B [mg/L]	0.030	0.033	0.017	0.034	0.104	0.008	0.046	0.012	0.012	0.040
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	0.00114	0.00013	< 0.00001	0.00005	0.00002
Ca [mg/L]	5.69	4.39	6.51	5.07	6.11	4.25	1.97	1.81	1.05	1.69
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	0.000005	0.000005	< 0.000003
Co [mg/L]	0.000140	0.000142	0.000024	0.000428	0.000048	0.000017	0.000068	0.000007	0.000012	0.000034
Cr [mg/L]	0.00053	0.00088	0.00018	0.00023	0.00017	0.00022	0.00008	0.00019	< 0.00008	0.00086
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.159	0.303	0.008	0.277	0.064	0.026	0.122	0.027	0.018	0.026
K [mg/L]	2.03	2.45	1.04	2.39	0.433	2.51	0.688	0.429	1.00	0.108
Li [mg/L]	0.0655	0.0607	0.0036	0.0105	0.0157	0.0415	0.0510	0.0284	0.0308	0.0123
Mg [mg/L]	0.361	0.438	0.110	0.405	0.349	0.290	0.440	0.050	0.092	0.074
Mn [mg/L]	0.00490	0.00547	0.00061	0.00325	0.00168	0.00636	0.00470	0.00711	0.00369	0.00266

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-259	36: VIS-CV5-PEG-260	37: VIS-CV5-PEG-261	38: VIS-CV5-PEG-262	39: VIS-CV5-PEG-263	40: VIS-CV5-PEG-264
Mo [mg/L]	0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0019	< 0.0004	0.0008	0.0004	0.0006
Na [mg/L]	5.03	5.73	1.27	4.65	5.40	1.20	5.38	2.46	2.19	6.70
Ni [mg/L]	0.0004	0.0003	< 0.0001	0.0004	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
P [mg/L]	0.004	0.007	0.009	< 0.003	0.008	0.067	0.018	0.050	0.057	0.046
Pb [mg/L]	0.00010	0.00013	< 0.00009	0.00029	0.00018	0.00010	0.00015	0.00010	< 0.00009	0.00029
Sb [mg/L]	0.0152	0.0074	< 0.0009	0.0012	0.0104	0.0022	0.0025	0.0076	0.0076	0.0060
Se [mg/L]	0.00004	< 0.00004	< 0.00004	< 0.00004	0.00011	< 0.00004	< 0.00004	< 0.00004	0.00009	< 0.00004
Si [mg/L]	2.32	2.34	1.89	1.92	2.28	1.75	2.10	1.22	1.15	1.98
Sn [mg/L]	< 0.00006	0.00048	< 0.00006	< 0.00006	< 0.00006	0.00019	0.00088	0.00018	0.00051	0.00092
Sr [mg/L]	0.00833	0.00635	0.00996	0.00939	0.0102	0.00797	0.00669	0.00699	0.00490	0.00279
Ti [mg/L]	0.0124	0.0183	0.0017	0.0164	0.0044	0.0002	0.0005	0.0001	0.0002	0.0008
Tl [mg/L]	0.000018	0.000013	< 0.000005	0.000020	0.000024	0.000256	0.000118	0.000062	0.000054	0.000030
U [mg/L]	0.000128	0.000077	0.001031	0.000192	0.000452	0.000113	0.000122	0.0258	0.000381	0.0136
V [mg/L]	0.00306	0.00373	0.00270	0.00181	0.00113	0.00041	0.00045	0.00018	0.00014	0.00032
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00004
Ce [mg/L]	0.00030	---	---	---	0.00052	< 0.00001	0.00004	0.00006	< 0.00001	0.00014
Cs [mg/L]	0.0030	---	---	---	0.0150	0.0107	0.0076	0.0156	0.0273	0.0028
Dy [mg/L]	0.00001	---	---	---	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0007	---	---	---	0.0007	0.0013	0.0013	0.0008	0.0009	0.0007
Gd (tot) [mg/L]	0.00003	---	---	---	0.00003	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00004
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	0.0001
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00015	---	---	---	0.00026	< 0.00001	0.00002	0.00002	< 0.00001	0.00008
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	0.0001	0.0003	0.0001	0.0016
Nd [mg/L]	0.00013	---	---	---	0.00017	< 0.00001	0.00005	0.00003	< 0.00001	0.00007
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	31: VIS-CV5-MS-255	32: VIS-CV5-MS-256	33: VIS-CV5-MS-257	34: VIS-CV5-MS-258	35: VIS-CV5-PEG-2 59	36: VIS-CV5-PEG-2 60	37: VIS-CV5-PEG-2 61	38: VIS-CV5-PEG-2 62	39: VIS-CV5-PEG-2 63	40: VIS-CV5-PEG-2 64
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00003	---	---	---	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0189	---	---	---	0.0156	0.147	0.0295	0.0247	0.0204	0.0056
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00002	---	---	---	0.00004	< 0.00001	0.00002	< 0.00001	< 0.00001	0.00004
Sc [mg/L]	0.0002	---	---	---	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	< 0.0001	---	---	---	0.0002	< 0.0001	0.0003	0.0004	0.0010	0.0016
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	---	---	---	0.0001	< 0.0001	0.0005	0.0001	< 0.0001	0.0008
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21	19	20	20	20	20	20	20	19	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.21	8.55	8.26	8.47	7.84	8.78	7.71	8.24	8.23	8.92
Conductivity [uS/cm]	55	56	47	61	38	53	28	35	40	59
Alkalinity [mg/L as CaCO3]	24	23	15	22	14	24	9	12	14	26
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.11	0.18	0.06	0.10	< 0.06	0.12	0.10	< 0.06	0.13
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Tot.Reactive P [mg/L]	0.03	0.06	0.22	0.06	0.04	< 0.03	0.12	0.05	0.06	0.06
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.932	0.641	0.626	0.384	0.708	0.487	0.659	0.695	0.405	0.296
As [mg/L]	0.0227	0.0090	0.0094	0.0063	0.0125	0.0420	0.0303	0.0120	0.0226	0.158
Ba [mg/L]	0.00128	0.00147	0.00101	0.00086	0.00061	0.00056	0.00088	0.00097	0.00162	0.00056
Be [mg/L]	0.000167	0.00108	0.00158	0.00132	0.000216	0.000132	0.000378	0.00485	0.00121	0.000103
B [mg/L]	0.027	0.031	0.039	0.026	0.043	0.019	0.035	0.048	0.040	0.039
Bi [mg/L]	0.00002	0.00034	0.00138	0.00012	0.00012	< 0.00001	0.00001	< 0.00001	0.00016	0.00031
Ca [mg/L]	4.73	4.33	2.74	6.10	2.22	6.22	1.89	0.79	1.93	6.06
Cd [mg/L]	< 0.000003	< 0.000003	0.000004	0.000003	0.000005	0.000005	0.000011	< 0.000003	0.000013	< 0.000003
Co [mg/L]	0.000215	0.000068	0.000047	0.000039	0.000008	0.000512	0.000028	0.000042	0.000049	0.000032
Cr [mg/L]	0.00012	0.00111	0.00075	0.00040	< 0.00008	0.00011	0.00016	0.00016	0.00019	0.00012
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.046	0.041	0.046	0.038	0.046	0.049	0.015	0.065	0.040	0.020
K [mg/L]	0.260	1.72	1.30	0.578	0.983	0.076	1.48	0.846	1.58	0.125
Li [mg/L]	0.0205	0.0334	0.0759	0.0232	0.0336	0.0105	0.0286	0.0044	0.0096	0.0155
Mg [mg/L]	0.144	0.278	0.218	0.266	0.097	0.208	0.144	0.170	0.126	0.504
Mn [mg/L]	0.00489	0.00456	0.0253	0.00325	0.0193	0.00176	0.0103	0.00355	0.00581	0.00052
Mo [mg/L]	< 0.0004	0.0014	0.0012	0.0013	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0011
Na [mg/L]	6.04	6.49	6.26	5.87	5.64	5.05	4.28	6.54	5.60	6.80
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	0.0001
P [mg/L]	0.036	0.073	0.231	0.083	0.057	0.015	0.146	0.059	0.071	0.043
Pb [mg/L]	0.00034	0.00055	0.00033	0.00015	0.00091	0.00651	0.00014	0.00011	0.00049	0.00048
Sb [mg/L]	0.0040	0.0020	0.0020	0.0015	0.0059	0.0018	0.0044	0.0028	0.0035	0.0109
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.00004	0.00007	0.00005
Si [mg/L]	2.86	2.82	2.31	2.27	2.45	2.22	2.17	2.20	1.91	1.90
Sn [mg/L]	0.00091	0.00098	0.00136	0.00027	0.00084	0.00014	0.00074	0.00124	0.00235	0.00065
Sr [mg/L]	0.00684	0.00855	0.00551	0.0112	0.00563	0.00967	0.00834	0.00186	0.00323	0.0176
Ti [mg/L]	0.0006	0.0003	0.0010	0.0002	0.0009	0.0003	0.0005	0.0013	0.0015	0.0002
Tl [mg/L]	0.000039	0.000355	0.000358	0.000069	0.000269	0.000015	0.000348	0.000092	0.000284	0.000012
U [mg/L]	0.0196	0.000144	0.000100	0.000141	0.0102	0.000375	0.000866	0.000840	0.000398	0.000256
V [mg/L]	0.00012	0.00062	0.00043	0.00025	0.00017	0.00012	0.00012	0.00016	0.00053	0.00131

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Analysis	41: VIS-CV5-PEG-2 65	42: VIS-CV5-PEG-2 66	43: VIS-CV5-PEG-2 67	44: VIS-CV5-PEG-2 68	45: VIS-CV5-PEG-2 69	46: VIS-CV5-PEG-2 70	47: VIS-CV5-PEG-2 71	48: VIS-CV5-PEG-2 72	49: VIS-CV5-PEG-2 73	50: VIS-CV5-PEG-2 74
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00003	< 0.00001	0.00002	< 0.00001	0.00004	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ce [mg/L]	0.00009	0.00007	0.00004	0.00012	0.00031	0.00009	0.00006	0.00009	0.00017	0.00001
Cs [mg/L]	0.0059	0.0079	0.0116	0.0036	0.0143	0.0009	0.0095	0.0035	0.0052	0.0265
Dy [mg/L]	0.00002	< 0.00001	< 0.00001	0.00009	0.00012	0.00002	< 0.00001	0.00002	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00009	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0009	0.0009	0.0015	0.0009	0.0010	0.0007	0.0009	0.0013	0.0009	0.0007
Gd (tot) [mg/L]	0.00003	< 0.00001	0.00001	0.00009	0.00018	0.00002	0.00002	0.00003	0.00002	< 0.00001
Ge [mg/L]	0.0001	0.0001	0.0001	0.0001	0.0002	< 0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00009	0.00004	0.00002	0.00009	0.00014	0.00005	0.00004	0.00003	0.00009	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0017	0.0002	0.0004	0.0003	0.0029	0.0003	0.0004	0.0009	0.0005	0.0003
Nd [mg/L]	0.00006	0.00003	0.00003	0.00010	0.00018	0.00004	0.00002	0.00008	0.00007	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00001	< 0.00001	< 0.00001	0.00009	0.00005	0.00001	< 0.00001	0.00002	0.00002	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0069	0.0957	0.100	0.0307	0.0762	0.0016	0.107	0.0420	0.0904	0.0049
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00002	< 0.00001	< 0.00001	0.00008	0.00018	0.00001	0.00001	0.00003	0.00001	< 0.00001
Sc [mg/L]	< 0.0001	0.0001	< 0.0001	0.0001	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0011	0.0002	0.0008	0.0002	0.0014	0.0003	0.0004	0.0006	0.0004	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0006	< 0.0001	0.0001	0.0001	0.0012	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA			
Sample weight [g]	20	20	19	20	< 0.001
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	8.49	8.22	8.50	8.42	4.24
Conductivity [uS/cm]	44	37	61	36	33
Alkalinity [mg/L as CaCO3]	16	11	32	11	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	6
F [mg/L]	0.10	0.14	0.23	0.12	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.09	0.10	< 0.03	0.10	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	1.19	0.717	0.700	0.811	< 0.001
As [mg/L]	0.0083	0.0495	0.0173	0.0502	< 0.0002
Ba [mg/L]	0.00132	0.00122	0.00284	0.00132	< 0.00008
Be [mg/L]	0.00253	0.000311	0.000010	0.000358	< 0.000007
B [mg/L]	0.038	0.049	0.024	0.048	< 0.002
Bi [mg/L]	0.00693	0.00006	< 0.00001	0.00008	< 0.00001
Ca [mg/L]	2.86	0.84	4.64	0.83	< 0.01
Cd [mg/L]	0.000010	0.000011	< 0.000003	0.000008	< 0.000003
Co [mg/L]	0.000076	0.000037	0.000098	0.000040	< 0.000004
Cr [mg/L]	0.00008	< 0.00008	0.00013	0.00011	0.00011
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.040	0.043	0.204	0.047	< 0.007
K [mg/L]	1.63	2.01	2.68	1.29	0.346
Li [mg/L]	0.0348	0.0304	0.166	0.0299	< 0.0001
Mg [mg/L]	0.177	0.108	0.385	0.112	< 0.001
Mn [mg/L]	0.0106	0.00589	0.00519	0.00629	0.00006

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Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	6.59	6.27	4.74	6.34	< 0.01
Ni [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
P [mg/L]	0.115	0.091	0.006	0.103	< 0.003
Pb [mg/L]	0.00052	0.00019	0.00045	0.00022	< 0.00009
Sb [mg/L]	0.0026	0.0066	0.0053	0.0064	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	3.76	2.49	2.03	2.75	< 0.02
Sn [mg/L]	0.00146	0.00070	< 0.00006	0.00073	< 0.00006
Sr [mg/L]	0.00465	0.00353	0.0121	0.00362	< 0.00008
Ti [mg/L]	0.0008	0.0009	0.0153	0.0010	< 0.0001
Tl [mg/L]	0.000566	0.000301	0.000037	0.000329	< 0.000005
U [mg/L]	0.00207	0.000694	0.000068	0.000728	< 0.000002
V [mg/L]	0.00033	0.00033	0.00221	0.00035	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00007	0.00003	< 0.00001	0.00002	< 0.00001
Ce [mg/L]	0.00008	0.00006	0.00041	0.00005	< 0.00001
Cs [mg/L]	0.0097	0.0065	0.0228	0.0068	< 0.0001
Dy [mg/L]	0.00002	0.00001	0.00003	0.00002	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0010	0.0008	0.0005	0.0008	< 0.0001
Gd (tot) [mg/L]	0.00004	0.00003	0.00004	0.00002	< 0.00001
Ge [mg/L]	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00006	0.00002	0.00020	0.00003	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0026	0.0004	< 0.0001	0.0005	< 0.0001
Nd [mg/L]	0.00003	0.00004	0.00019	0.00003	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-PEG-275	52: VIS-CV5-PEG-276	53: VIS-CV5-MS-249	54: VIS-CV5-PEG-276	55:BLK: $SPLP1312 Blank #1
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0859	0.0699	0.0299	0.0716	< 0.0001
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00003	0.00002	0.00003	0.00002	< 0.00001
Sc [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0024	0.0007	< 0.0001	0.0006	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Phos TR spike recovery is low due to sample matrix.

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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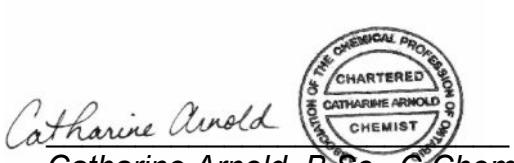
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:

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Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0472-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	108	90	110	NA		
Acidity - QCBatchID: EWL0478-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0544-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	100	90	110	NA		
Alkalinity - QCBatchID: EWL0472-MAR25													
Alkalinity	2	mg/L as Ca	< 2			5	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0478-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	98	80	120	NA		
Alkalinity - QCBatchID: EWL0544-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	93	80	120	NA		
Anions by IC - QCBatchID: DIO0547-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	100	75	125
Chloride	0.2	mg/L	<0.2			ND	20	100	90	110	102	75	125
Nitrate (as N)	0.06	mg/L	<0.06			8	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			6	20	99	90	110	96	75	125
Anions by IC - QCBatchID: DIO0548-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	103	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	100	75	125
Sulphate	0.2	mg/L	<0.2			9	20	102	90	110	96	75	125
Anions by IC - QCBatchID: DIO0609-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	102	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			NV	20	101	90	110	86	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	100	90	110	96	75	125
Anions by IC - QCBatchID: DIO0610-MAR25													
Bromide	0.3	mg/L	<0.3			NV	20	100	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			NV	20	102	90	110	90	75	125
Nitrate (as N)	0.06	mg/L	<0.06			NV	20	100	90	110	100	75	125
Nitrite (as N)	0.03	mg/L	<0.03			NV	20	99	90	110	98	75	125
Sulphate	0.2	mg/L	<0.2			NV	20	101	90	110	93	75	125

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Anions by IC - QCBatchID: DIO0613-MAR25														
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	102	75	125	
Chloride	0.2	mg/L	<0.2			1	20	101	90	110	107	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			4	20	101	90	110	105	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			14	20	100	90	110	105	75	125	
Sulphate	0.2	mg/L	<0.2			2	20	101	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0647-MAR25														
Bromide	0.3	mg/L	<0.3			13	20	101	90	110	104	75	125	
Chloride	0.2	mg/L	<0.2			ND	20	98	90	110	115	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			5	20	101	90	110	104	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	106	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	100	75	125	
Conductivity - QCBatchID: EWL0020-APR25														
Conductivity	2	uS/cm	1589			0	20	100	90	110	NA			
Conductivity - QCBatchID: EWL0472-MAR25														
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA			
Conductivity - QCBatchID: EWL0478-MAR25														
Conductivity	2	uS/cm	< 2			0	20	106	90	110	NA			
Conductivity - QCBatchID: EWL0544-MAR25														
Conductivity	2	uS/cm	2			8	20	100	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0481-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	98	90	110	98	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0530-MAR25														
Fluoride	0.06	mg/L	<0.06			1	10	98	90	110	97	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0539-MAR25														
Fluoride	0.06	mg/L	<0.06			5	10	97	90	110	98	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0550-MAR25														
Fluoride	0.06	mg/L	<0.06			ND	10	106	90	110	NV	75	125	
Inorganics-General - QCBatchID: EHG0053-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	NV	70	130	
Inorganics-General - QCBatchID: EHG0058-MAR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	115	80	120	120	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0005-APR25														
Aluminum	0.001	mg/L	<0.001			ND	20	99	90	110	113	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	110	90	110	126	70	130	
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	102	70	130	
Barium	0.00008	mg/L	<0.00008			ND	20	103	90	110	110	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	97	90	110	100	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	100	90	110	109	70	130	

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Boron	0.002	mg/L	<0.002			ND	20	96	90	110	99	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	100	70	130
Calcium	0.01	mg/L	<0.01			ND	20	100	90	110	109	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	97	90	110	100	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	101	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	100	90	110	104	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	92	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	101	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	101	90	110	105	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	97	90	110	100	70	130
Magnesium	0.001	mg/L	<0.001			ND	20	99	90	110	101	70	130
Manganese	0.00001	mg/L	<0.00001			ND	20	101	90	110	102	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	99	90	110	86	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	101	90	110	99	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	99	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			ND	20	100	90	110	108	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110	103	70	130
Silicon	0.02	mg/L	<0.02			ND	20	97	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	83	70	130
Sodium	0.01	mg/L	<0.01			ND	20	105	90	110	102	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	97	90	110	100	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110	84	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	103	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	103	90	110	109	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	101	90	110	101	70	130
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110	110	70	130

OnLine LIMS

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0021-APR25													
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	90	70	130
Lithium	0.0001	mg/L	<0.0001			0	20	103	90	110	107	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0235-MAR25													
Aluminum	0.001	mg/L	<0.001			7	20	98	90	110	116	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	126	70	130
Arsenic	0.0002	mg/L	<0.0002			3	20	104	90	110	107	70	130
Barium	0.00008	mg/L	<0.00008			ND	20	97	90	110	97	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	104	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	98	70	130
Boron	0.002	mg/L	<0.002			ND	20	95	90	110	99	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	99	90	110	95	70	130
Calcium	0.01	mg/L	<0.01			ND	20	94	90	110	96	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	103	90	110	94	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	98	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	101	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	105	90	110	99	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	98	90	110	106	70	130
Magnesium	0.001	mg/L	<0.001			0	20	97	90	110	98	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	98	90	110	99	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	106	90	110	92	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	105	90	110	108	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	91	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	95	90	110	75	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			ND	20	105	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	97	90	110	102	70	130

OnLine LIMS

00040832273

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Silicon	0.02	mg/L	<0.02			ND	20	103	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	104	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			0	20	97	90	110	101	70	130
Strontium	0.00008	mg/L	<0.00008			8	20	97	90	110	99	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	97	90	110	100	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	103	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	101	90	110	95	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	96	90	110	100	70	130
Zinc	0.002	mg/L	<0.002			ND	20	104	90	110	105	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0261-MAR25													
Aluminum	0.001	mg/L	<0.001			1	20	98	90	110	89	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	105	90	110	120	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	103	90	110	106	70	130
Barium	0.00008	mg/L	<0.00008			3	20	101	90	110	99	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	93	70	130
Boron	0.002	mg/L	<0.002			ND	20	91	90	110	97	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	98	90	110	106	70	130
Calcium	0.01	mg/L	<0.01			1	20	109	90	110	93	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	101	90	110	98	70	130
Cobalt	0.000004	mg/L	<0.000004			ND	20	101	90	110	101	70	130
Copper	0.001	mg/L	<0.001			ND	20	99	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	114	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	96	90	110	94	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	99	90	110	93	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	99	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	74	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	99	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	103	90	110	104	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Palladium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	105	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	107	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	100	90	110	110	70	130
Silicon	0.02	mg/L	<0.02			1	20	102	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	93	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			2	20	108	90	110	106	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	98	90	110	97	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	96	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	101	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			2	20	93	90	110	96	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	100	90	110	103	70	130
Zinc	0.002	mg/L	<0.002			ND	20	103	90	110	106	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0266-MAR25													
Cerium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			7	20	103	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	104	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			3	20	101	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11023-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
pH - QCBatchID: EWL0472-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0478-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0544-MAR25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0220-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	95	90	110	78	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0232-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			5	10	100	90	110	100	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0244-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	98	90	110	61	75	125	

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

25-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 14 August 2025
LR Report: **CA11024-AUG25**
Reference: Shakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	15-Aug-25	12:50	21	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	15-Aug-25	12:50	1	1	1	1	1	1	1	1
Ext Volume [mL]	15-Aug-25	12:50	400	400	400	400	400	400	400	400
pH [No unit]	18-Aug-25	09:38	5.08	5.12	4.93	4.91	4.98	4.92	4.91	4.96
Conductivity [uS/cm]	18-Aug-25	09:38	5260	5150	4710	4700	4920	4750	4730	4860
Alkalinity [mg/L as CaCO3]	19-Aug-25	10:46	1760	1830	1330	1390	1630	1390	1380	1550
Acidity [mg/L as CaCO3]	19-Aug-25	10:46	1040	1020	1430	1540	1350	1450	1510	1390
F [mg/L]	18-Aug-25	13:47	1.45	0.38	0.30	0.10	0.38	0.21	0.12	0.29
Br [mg/L]	18-Aug-25	12:39	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	18-Aug-25	12:39	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	18-Aug-25	12:39	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	18-Aug-25	12:39	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	18-Aug-25	12:39	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
NO2+NO3 [as N mg/L]	18-Aug-25	12:39	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	20-Aug-25	08:25	< 0.03	< 0.03	< 0.03	< 0.03	0.08	0.03	< 0.03	0.11
Hg [mg/L]	19-Aug-25	15:31	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Ag [mg/L]	19-Aug-25	15:31	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Aug-25	10:25	0.91	0.32	0.75	0.73	0.67	0.57	0.50	0.65
As [mg/L]	25-Aug-25	10:25	0.581	1.23	0.047	0.027	0.504	0.120	0.031	0.518
Ba [mg/L]	19-Aug-25	15:31	0.03217	0.02718	0.01627	0.01156	0.02339	0.02378	0.01191	0.06261
B [mg/L]	19-Aug-25	15:31	0.212	0.218	0.170	0.192	0.210	0.197	0.175	0.200
Be [mg/L]	19-Aug-25	15:31	0.001460	0.001190	0.002330	0.000840	0.001770	0.003110	0.001350	0.005310
Bi [mg/L]	25-Aug-25	10:23	0.0010	0.0002	0.0031	0.0035	0.0002	0.0049	0.0050	0.0299
Ca [mg/L]	25-Aug-25	10:23	151	121	17.5	4.6	65.3	21.0	14.2	55.4
Cd [mg/L]	19-Aug-25	15:30	0.000510	0.000680	0.000690	0.000060	0.000190	0.000290	0.000100	0.000440
Co [mg/L]	19-Aug-25	15:30	0.053240	0.043900	0.003020	0.000500	0.017440	0.004840	0.000770	0.011570
Cr [mg/L]	19-Aug-25	15:30	0.03102	0.03664	0.01319	0.00199	0.03687	0.01652	0.00287	0.01544
Cu [mg/L]	25-Aug-25	10:24	0.03	< 0.01	< 0.01	0.02	0.01	< 0.01	< 0.01	0.11
Fe [mg/L]	25-Aug-25	10:24	< 0.07	13.3	1.83	< 0.07	3.56	1.33	0.15	1.34
K [mg/L]	25-Aug-25	10:24	230	4.18	3.88	3.63	3.99	2.73	1.82	3.35
Li [mg/L]	19-Aug-25	15:30	0.125	0.133	0.118	0.0254	0.126	0.0811	0.0433	0.239
Mg [mg/L]	25-Aug-25	10:24	126	40.3	3.52	0.57	8.40	3.55	0.76	5.45
Mn [mg/L]	25-Aug-25	10:24	6.26	2.17	0.420	0.0902	1.05	0.485	0.270	1.82
Mo [mg/L]	19-Aug-25	15:30	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	< 0.0004	0.0006
Na [mg/L]	25-Aug-25	10:24	1400	1400	1280	1350	1340	1320	1300	1400
Ni [mg/L]	25-Aug-25	10:24	0.800	1.51	0.031	0.002	0.394	0.077	0.003	0.397
P [mg/L]	25-Aug-25	10:24	0.03	< 0.03	0.03	0.03	0.05	0.04	0.04	0.12
Pb [mg/L]	25-Aug-25	10:24	0.0093	0.0187	0.0208	0.0034	0.0058	0.0084	0.0072	0.0273
Sb [mg/L]	19-Aug-25	15:28	0.194	0.190	0.0106	0.0057	0.0734	0.0189	0.0077	0.0876
Se [mg/L]	19-Aug-25	15:28	0.00009	0.00006	< 0.00004	0.00005	< 0.00004	< 0.00004	< 0.00004	0.00017
Si [mg/L]	19-Aug-25	15:28	2.56	2.38	1.51	1.82	2.15	1.33	1.12	1.75
Sn [mg/L]	25-Aug-25	10:24	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Sr [mg/L]	25-Aug-25	10:24	0.124	0.194	0.0302	0.0139	0.0637	0.0387	0.0220	0.0845
Ti [mg/L]	19-Aug-25	15:28	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0006	0.0003	0.0001	0.0002
Tl [mg/L]	25-Aug-25	10:24	0.00144	0.00249	0.00081	0.00136	0.00167	0.00071	0.00044	0.00120
U [mg/L]	25-Aug-25	10:24	0.0346	0.0119	0.0418	0.0284	0.0436	0.0432	0.0388	0.167
V [mg/L]	19-Aug-25	15:28	0.00155	0.00135	0.00078	0.00018	0.00203	0.00100	0.00023	0.00075

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Zn [mg/L]	25-Aug-25	10:24	0.22	0.64	0.39	< 0.02	< 0.02	0.03	< 0.02	0.12
Au [mg/L]	19-Aug-25	15:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	21-Aug-25	15:48	0.00980	0.00970	0.00410	0.00080	0.00578	0.00643	0.00309	0.01213
Cs [mg/L]	21-Aug-25	15:48	0.806	1.69	0.205	0.0340	0.619	0.208	0.0461	0.661
Dy [mg/L]	21-Aug-25	15:48	0.00095	0.00144	0.00034	0.00015	0.00069	0.00051	0.00020	0.00093
Er [mg/L]	21-Aug-25	15:48	0.00064	0.00106	0.00015	0.00005	0.00032	0.00024	0.00008	0.00033
Eu [mg/L]	21-Aug-25	15:48	0.00016	0.00025	0.00006	0.00001	0.00012	0.00011	0.00004	0.00017
Ga [mg/L]	21-Aug-25	15:48	0.0002	0.0003	0.0001	0.0002	< 0.0001	0.0002	< 0.0001	0.0002
Gd (tot) [mg/L]	21-Aug-25	15:48	0.00097	0.00171	0.00064	0.00026	0.00101	0.00079	0.00041	0.00188
Ge [mg/L]	19-Aug-25	15:27	0.0006	0.0007	0.0002	0.0003	0.0003	0.0003	0.0002	0.0005
Hf [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	21-Aug-25	15:48	0.00023	0.00035	0.00006	0.00001	0.00013	0.00008	0.00004	0.00013
In [mg/L]	21-Aug-25	15:48	< 0.00001	0.00001	< 0.00001	0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ir [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	21-Aug-25	15:48	0.00428	0.00454	0.00204	0.00045	0.00302	0.00317	0.00090	0.00634
Lu [mg/L]	21-Aug-25	15:48	0.0002	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	21-Aug-25	15:48	0.00372	0.00518	0.00192	0.00059	0.00306	0.00330	0.00108	0.00596
Os [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	21-Aug-25	15:48	0.00092	0.00112	0.00051	0.00013	0.00075	0.00084	0.00026	0.00151
Pt [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	21-Aug-25	15:47	0.272	0.451	0.278	0.259	0.398	0.194	0.0976	0.254
Re [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Ru [mg/L]	19-Aug-25	15:27	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	21-Aug-25	15:47	0.00089	0.00120	0.00062	0.00020	0.00085	0.00086	0.00033	0.00170
Sc [mg/L]	21-Aug-25	15:47	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	21-Aug-25	15:47	0.00016	0.00024	0.00010	0.00004	0.00015	0.00013	0.00006	0.00026
Te [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-BYP-CP
Th [mg/L]	19-Aug-25	15:27	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0001	0.0003	0.0002
Tm [mg/L]	21-Aug-25	15:47	0.00010	0.00015	0.00002	0.00001	0.00004	0.00003	0.00001	0.00005

Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Sample Date & Time		
Sample weight [g]	20	---
Ext Fluid [#1 or #2]	1	1
Ext Volume [mL]	400	400
pH [No unit]	4.96	4.90
Conductivity [uS/cm]	4860	4680
Alkalinity [mg/L as CaCO3]	1520	1440
Acidity [mg/L as CaCO3]	1400	1500
F [mg/L]	0.33	< 0.06
Br [mg/L]	< 30	< 30
Cl [mg/L]	< 20	< 20
SO4 [mg/L]	< 20	< 20
NO2 [as N mg/L]	< 3	< 3
NO3 [as N mg/L]	< 6	< 6
NO2+NO3 [as N mg/L]	< 6	< 6
Tot.Reactive P [mg/L]	0.11	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00007
Al [mg/L]	0.67	< 0.01
As [mg/L]	0.560	< 0.002
Ba [mg/L]	0.05939	0.00629
B [mg/L]	0.192	0.114
Be [mg/L]	0.005120	0.000010
Bi [mg/L]	0.0272	< 0.0001

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Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Ca [mg/L]	52.8	1.0
Cd [mg/L]	0.000330	0.000100
Co [mg/L]	0.011330	0.000070
Cr [mg/L]	0.01498	0.00133
Cu [mg/L]	0.11	< 0.01
Fe [mg/L]	1.28	< 0.07
K [mg/L]	3.32	0.59
Li [mg/L]	0.222	0.0046
Mg [mg/L]	5.29	0.28
Mn [mg/L]	1.73	0.0018
Mo [mg/L]	0.0007	< 0.0004
Na [mg/L]	1400	1330
Ni [mg/L]	0.385	< 0.001
P [mg/L]	0.11	< 0.03
Pb [mg/L]	0.0230	0.0020
Sb [mg/L]	0.0890	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004
Si [mg/L]	1.79	0.20
Sn [mg/L]	< 0.0006	< 0.0006
Sr [mg/L]	0.0799	0.0026
Ti [mg/L]	< 0.0001	< 0.0001
Tl [mg/L]	0.00116	< 0.00005
U [mg/L]	0.157	0.00016
V [mg/L]	0.00072	0.00029
Zn [mg/L]	0.10	< 0.02
Au [mg/L]	< 0.00001	< 0.00001
Ce [mg/L]	0.01281	0.00015
Cs [mg/L]	0.625	0.0016
Dy [mg/L]	0.00100	0.00002
Er [mg/L]	0.00037	0.00001
Eu [mg/L]	0.00021	0.00001

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Analysis	13: CV5-BYP-CP	14:BLK: $Reg347/TCLP1311 Blank#1
Ga [mg/L]	0.0002	< 0.0001
Gd (tot) [mg/L]	0.00196	0.00001
Ge [mg/L]	0.0004	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001
Ho [mg/L]	0.00016	0.00001
In [mg/L]	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001
La [mg/L]	0.00654	0.00009
Lu [mg/L]	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	< 0.0001
Nd [mg/L]	0.00605	0.00008
Os [mg/L]	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001
Pr [mg/L]	0.00157	0.00003
Pt [mg/L]	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001
Rb [mg/L]	0.246	0.0018
Re [mg/L]	0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001
Sm [mg/L]	0.00180	0.00004
Sc [mg/L]	< 0.0001	< 0.0001
Ta [mg/L]	< 0.0001	< 0.0001
Tb [mg/L]	0.00027	0.00001
Te [mg/L]	< 0.0001	< 0.0001
Th [mg/L]	0.0002	< 0.0001
Tm [mg/L]	0.00005	< 0.00001

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Method Descriptions

Parameter	Units	SGS Method Code	PALA
	#1 or #2	NA	N
	g	NA	N
	mL	NA	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0341-AUG25													
Acidity	2	mg/L as Ca	< 2			ND	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0341-AUG25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0305-AUG25													
Bromide	0.3	mg/L	<0.3			ND	20	104	90	110	97	75	125
Chloride	0.2	mg/L	<0.2			2	20	98	90	110	92	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	97	90	110	99	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	102	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	95	90	110	90	75	125
Conductivity - QCBatchID: EWL0301-AUG25													
Conductivity	2	uS/cm	< 2			0	10	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0326-AUG25													
Fluoride	0.06	mg/L	<0.06			ND	10	104	90	110	92	75	125
Inorganics-General - QCBatchID: EHG0021-AUG25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0145-AUG25													
Aluminum	0.001	mg/L	<0.001			4	20	95	90	110	107	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	104	90	110	104	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	97	90	110	99	70	130
Barium	0.00008	mg/L	<0.00008			7	20	97	90	110	96	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	95	90	110	94	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	96	90	110	91	70	130
Boron	0.002	mg/L	<0.002			ND	20	98	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	95	90	110	104	70	130
Calcium	0.01	mg/L	<0.01			ND	20	98	90	110	103	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	99	90	110	105	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	91	90	110	93	70	130
Copper	0.01	mg/L	<0.001			1	20	94	90	110	98	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	101	90	110	100	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lead	0.00009	mg/L	<0.00009			4	20	94	90	110	92	70	130	
Lithium	0.0001	mg/L	<0.0001			3	20	99	90	110	99	70	130	
Magnesium	0.001	mg/L	<0.001			0	20	97	90	110	98	70	130	
Manganese	0.00001	mg/L	<0.00001			14	20	97	90	110	103	70	130	
Molybdenum	0.0004	mg/L	<0.0004			ND	20	99	90	110	102	70	130	
Nickel	0.0001	mg/L	<0.0001			ND	20	98	90	110	103	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Phosphorus	0.003	mg/L	<0.003			ND	20	96	90	110	NV	70	130	
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			3	20	97	90	110	92	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			ND	20	98	90	110	114	70	130	
Silicon	0.02	mg/L	<0.02			0	20	92	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	90	90	110	NV	70	130	
Sodium	0.01	mg/L	<0.01			ND	20	94	90	110	95	70	130	
Strontium	0.00008	mg/L	<0.00008			17	20	99	90	110	97	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	107	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			ND	20	98	90	110	84	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			ND	20	102	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			0	20	97	90	110	94	70	130	
Vanadium	0.00001	mg/L	<0.00001			0	20	98	90	110	99	70	130	
Zinc	0.002	mg/L	<0.002			1	20	92	90	110	88	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0187-AUG25														
Cerium	0.00001	mg/L	<0.00001			14	20	95	90	110	NV	70	130	
Cesium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			0	20	98	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11024-AUG25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Indium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			16	20	97	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			11	20	97	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			1	20	92	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			20	20	98	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0206-AUG25													
Aluminum	0.001	mg/L	<0.001			ND	20	98	90	110	101	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	96	90	110	91	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	93	90	110	91	70	130
Calcium	0.01	mg/L	<0.01			ND	20	100	90	110	103	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	96	90	110	88	70	130
Nickel	0.0001	mg/L	<0.0001			ND	20	98	90	110	100	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	95	90	110	NV	70	130
Sodium	0.01	mg/L	<0.01			20	20	99	90	110	99	70	130
Strontium	0.00008	mg/L	<0.00008			ND	20	98	90	110	95	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	71	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	101	90	110	NV	70	130
Uranium	0.000002	mg/L	2e-006			ND	20	99	90	110	90	70	130
Zinc	0.002	mg/L	<0.002			ND	20	96	90	110	108	70	130
pH - QCBatchID: EWL0301-AUG25													
pH	0.05	No unit	NA			1		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0168-AUG25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	95	90	110	76	75	125

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28-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11024-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
1: Analysis Start Date		26-Mar-25	27-Mar-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25	04-Apr-25
2: Analysis Start Time		16:39	07:16	07:49	07:49	07:49	07:49	08:37	01:49	01:49	01:49
3: Analysis Completed Date		08-Apr-25	08-Apr-25	11-Apr-25	10-Apr-25	11-Apr-25	23-Apr-25	10-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time		17:05	17:05	12:02	12:20	12:02	11:47	13:25	12:19	12:19	12:19
5: VIS-CV5-MS-229	NA	100	400	8.33	443	63	< 2	0.56	< 30	< 20	69
6: VIS-CV5-MS-230	NA	100	400	8.84	309	64	< 2	1.57	< 30	< 20	41
7: VIS-CV5-MS-231	NA	99	400	8.20	413	47	< 2	2.10	< 30	< 20	75
8: VIS-CV5-MS-232	NA	100	400	9.14	238	83	< 2	2.63	< 30	< 20	< 20
9: VIS-CV5-MS-233	NA	100	400	9.09	209	89	< 2	2.48	< 30	< 20	< 20
10: VIS-CV5-MS-234	NA	100	400	9.00	241	79	< 2	1.27	< 30	< 20	23
11: VIS-CV5-MS-235	NA	100	400	9.23	230	95	< 2	2.69	< 30	< 20	< 20
12: VIS-CV5-MS-236	NA	100	400	9.10	214	85	< 2	0.87	< 30	< 20	< 20
13: VIS-CV5-MS-237	NA	100	400	8.93	206	80	< 2	0.96	< 30	< 20	< 20
14: VIS-CV5-MS-238	NA	100	400	9.12	242	99	< 2	2.79	< 30	< 20	< 20
15: VIS-CV5-MS-239	NA	100	400	8.65	227	66	< 2	0.74	< 30	< 20	22
16: VIS-CV5-MS-240	NA	100	400	8.76	220	70	< 2	1.24	< 30	< 20	< 20
17: VIS-CV5-MS-241	NA	101	400	9.04	278	90	< 2	2.87	< 30	< 20	< 20
18: VIS-CV5-MS-242	NA	101	400	9.22	250	98	< 2	2.26	< 30	< 20	< 20
19: VIS-CV5-MS-243	NA	100	400	8.92	205	75	< 2	1.91	< 30	< 20	< 20

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LR Report : CA11024-FEB25

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
20: VIS-CV5-MS-244	NA	100	400	9.62	267	115	< 2	2.13	< 30	< 20	< 20
21: VIS-CV5-MS-245	NA	99	400	9.52	262	110	< 2	3.73	< 30	< 20	< 20
22: VIS-CV5-MS-246	NA	99	400	9.39	191	80	< 2	3.63	< 30	< 20	< 20
23: VIS-CV5-MS-247	NA	100	400	9.53	192	83	< 2	3.03	< 30	< 20	< 20
24: VIS-CV5-MS-248	NA	100	400	9.54	207	95	< 2	1.27	< 30	< 20	< 20
25: VIS-CV5-MS-249	NA	100	400	9.55	215	96	< 2	2.99	< 30	< 20	< 20
26: VIS-CV5-MS-250	NA	100	400	8.83	169	57	< 2	0.28	< 30	< 20	< 20
27: VIS-CV5-MS-251	NA	100	400	9.35	174	57	< 2	0.65	< 30	< 20	< 20
28: VIS-CV5-MS-252	NA	101	400	8.57	181	66	< 2	4.12	< 30	< 20	< 20
29: VIS-CV5-MS-253	NA	100	400	8.31	744	98	< 2	1.32	< 30	< 20	200
30: VIS-CV5-MS-254	NA	100	400	8.82	204	76	< 2	2.52	< 30	< 20	< 20
31: VIS-CV5-MS-255	NA	100	400	8.60	222	76	< 2	2.91	< 30	< 20	< 20
32: VIS-CV5-MS-256	NA	101	400	8.53	207	66	< 2	2.38	< 30	< 20	< 20
33: VIS-CV5-MS-257	NA	101	400	8.41	186	66	< 2	0.45	< 30	< 20	< 20
34: VIS-CV5-MS-258	NA	100	400	8.94	183	71	< 2	0.74	< 30	< 20	< 20
35: VIS-CV5-PEG-259	NA	100	400	8.99	198	67	< 2	0.85	< 30	< 20	< 20
36: VIS-CV5-PEG-260	NA	101	400	8.48	221	56	< 2	2.52	< 30	28	< 20
37: VIS-CV5-PEG-261	NA	100	400	8.49	186	59	< 2	2.63	< 30	< 20	< 20
38: VIS-CV5-PEG-262	NA	100	400	9.30	230	79	< 2	3.29	< 30	< 20	< 20
39: VIS-CV5-PEG-263	NA	100	400	9.19	217	74	< 2	3.62	< 30	21	< 20
40: VIS-CV5-PEG-264	NA	100	400	9.50	171	73	< 2	1.16	< 30	< 20	< 20
41: VIS-CV5-PEG-265	NA	100	400	9.50	211	81	< 2	0.80	< 30	< 20	< 20
42: VIS-CV5-PEG-266	NA	101	400	8.35	203	48	< 2	2.63	< 30	29	< 20
43: VIS-CV5-PEG-267	NA	100	400	8.87	242	52	< 2	4.57	< 30	40	< 20
44: VIS-CV5-PEG-268	NA	100	400	9.07	230	44	< 2	1.62	< 30	47	< 20
45: VIS-CV5-PEG-269	NA	101	400	9.41	170	74	< 2	2.18	< 30	< 20	< 20
46: VIS-CV5-PEG-270	NA	100	400	9.53	193	67	< 2	0.88	< 30	< 20	< 20
47: VIS-CV5-PEG-271	NA	100	400	9.31	180	67	< 2	1.68	< 30	< 20	< 20
48: VIS-CV5-PEG-272	NA	100	400	9.26	171	65	< 2	0.94	< 30	< 20	< 20
49: VIS-CV5-PEG-273	NA	101	400	9.25	200	68	< 2	0.87	< 30	< 20	< 20
50: VIS-CV5-PEG-274	NA	100	400	9.22	200	65	< 2	2.70	< 30	21	< 20
51: VIS-CV5-PEG-275	NA	100	400	9.57	187	72	< 2	1.50	< 30	< 20	< 20
52: VIS-CV5-PEG-276	NA	100	400	8.21	159	69	< 2	2.53	< 30	< 20	< 20

OnLine LIMS

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SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11024-FEB25**

Sample ID	Sample Date & Time	Sample weight g	Volume D.I. Water mL	pH No unit	Conductivity uS/cm	Alkalinity mg/L as CaCO3	Acidity mg/L as CaCO3	F mg/L	Br mg/L	Cl mg/L	SO4 mg/L
53-DUP: VIS-CV5-MS-249		99	400	9.54	217	99	< 2	3.00	< 30	< 20	< 20
54-DUP: VIS-CV5-PEG-276		100	400	8.39	163	67	< 2	2.56	< 30	< 20	< 20
55-BLK: CTEU Blank		< 0.001	400	6.43	6	< 2	< 2	< 0.06	< 30	< 20	< 20

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L
1: Analysis Start Date	04-Apr-25	04-Apr-25	10-Apr-25	10-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25
2: Analysis Start Time	01:49	01:49	06:56	10:01	12:26	12:26	12:26	12:26	12:26	12:26	12:26
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	12:19	12:19	09:22	10:24	10:24	10:24	10:24	10:24	10:24	10:24	10:24
5: VIS-CV5-MS-229	< 3	< 6	< 0.03	< 0.00001	0.00026	0.125	0.0023	0.0125	< 0.000007	0.079	< 0.00001
6: VIS-CV5-MS-230	< 3	< 6	< 0.03	< 0.00001	0.00040	0.210	0.0525	0.00518	0.000026	0.286	0.00002
7: VIS-CV5-MS-231	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.338	0.0015	0.0106	0.000009	0.078	0.00002
8: VIS-CV5-MS-232	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.569	0.116	0.00326	0.000102	0.176	0.00003
9: VIS-CV5-MS-233	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.685	0.0907	0.00198	0.000087	0.160	0.00001
10: VIS-CV5-MS-234	< 3	< 6	< 0.03	< 0.00001	0.00008	2.24	0.0883	0.00737	0.000058	0.112	0.00011
11: VIS-CV5-MS-235	< 3	< 6	0.11	< 0.00001	< 0.00005	1.92	0.214	0.00475	0.000045	0.147	0.00003
12: VIS-CV5-MS-236	< 3	< 6	0.06	< 0.00001	< 0.00005	1.31	0.0102	0.00285	0.000032	0.140	0.00003
13: VIS-CV5-MS-237	< 3	< 6	0.10	< 0.00001	< 0.00005	1.71	0.0133	0.00385	0.000062	0.222	0.00002
14: VIS-CV5-MS-238	< 3	< 6	0.03	< 0.00001	< 0.00005	1.85	0.0888	0.00682	0.000040	0.176	0.00002
15: VIS-CV5-MS-239	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.505	0.0200	0.00303	< 0.000007	0.138	< 0.00001
16: VIS-CV5-MS-240	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.668	0.0090	0.00390	0.000009	0.116	0.00002
17: VIS-CV5-MS-241	< 3	< 6	0.04	< 0.00001	0.00008	2.85	0.0549	0.0205	0.000186	0.233	0.00010
18: VIS-CV5-MS-242	< 3	< 6	0.04	< 0.00001	< 0.00005	2.19	0.0544	0.00974	0.000043	0.152	0.00001
19: VIS-CV5-MS-243	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.796	0.0455	0.00286	0.000075	0.132	0.00004
20: VIS-CV5-MS-244	< 3	< 6	0.34	< 0.00001	< 0.00005	3.22	0.632	0.0163	0.000041	0.111	0.00006
21: VIS-CV5-MS-245	< 3	< 6	0.06	< 0.00001	< 0.00005	2.59	0.0412	0.00783	0.000023	0.192	0.00002
22: VIS-CV5-MS-246	< 3	< 6	0.07	< 0.00001	< 0.00005	2.63	0.204	0.0111	0.000193	0.107	0.00022
23: VIS-CV5-MS-247	< 3	< 6	0.17	< 0.00001	< 0.00005	3.83	0.305	0.0145	0.000070	0.112	0.00007
24: VIS-CV5-MS-248	< 3	< 6	0.06	< 0.00001	< 0.00005	2.41	0.234	0.00951	0.000023	0.135	0.00004
25: VIS-CV5-MS-249	< 3	< 6	0.09	< 0.00001	< 0.00005	2.40	0.160	0.00983	0.000050	0.135	0.00002
26: VIS-CV5-MS-250	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.670	0.0044	0.00092	< 0.000007	0.041	< 0.00001

OnLine LIMS

000409370

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA11024-FEB25

Sample ID	NO2 as N mg/L	NO3 as N mg/L	Tot.Reactive P mg/L	Hg mg/L	Ag mg/L	Al mg/L	As mg/L	Ba mg/L	Be mg/L	B mg/L	Bi mg/L
27: VIS-CV5-MS-251	< 3	< 6	< 0.03	< 0.00001	< 0.00005	1.27	0.0217	0.00543	0.000189	0.196	0.00002
28: VIS-CV5-MS-252	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.612	0.0284	0.00214	0.000681	0.462	0.00005
29: VIS-CV5-MS-253	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.010	0.0008	0.0290	< 0.000007	0.105	< 0.00001
30: VIS-CV5-MS-254	< 3	< 6	0.15	< 0.00001	< 0.00005	2.29	0.680	0.0127	0.000293	0.225	0.00004
31: VIS-CV5-MS-255	< 3	< 6	0.08	< 0.00001	< 0.00005	2.64	0.260	0.0128	0.000073	0.140	0.00002
32: VIS-CV5-MS-256	< 3	< 6	0.04	< 0.00001	< 0.00005	2.26	0.0212	0.00842	0.000020	0.103	0.00003
33: VIS-CV5-MS-257	< 3	< 6	0.09	< 0.00001	< 0.00005	3.40	0.0252	0.0111	0.000007	0.217	< 0.00001
34: VIS-CV5-MS-258	< 3	< 6	0.07	< 0.00001	< 0.00005	1.94	0.0693	0.0101	< 0.000007	0.083	0.00003
35: VIS-CV5-PEG-259	< 3	< 6	0.06	< 0.00001	< 0.00005	1.79	0.215	0.00330	0.000289	0.870	0.00003
36: VIS-CV5-PEG-260	< 3	< 6	0.53	< 0.00001	< 0.00005	0.906	0.226	0.00169	0.000763	0.285	0.00185
37: VIS-CV5-PEG-261	< 3	< 6	0.30	< 0.00001	< 0.00005	1.74	0.708	0.00266	0.000770	0.177	0.00067
38: VIS-CV5-PEG-262	< 3	< 6	1.39	< 0.00001	< 0.00005	2.38	1.64	0.00238	0.000585	0.322	0.00013
39: VIS-CV5-PEG-263	< 3	< 6	0.93	< 0.00001	0.00008	3.09	0.561	0.00419	0.000673	0.353	0.00070
40: VIS-CV5-PEG-264	< 3	< 6	0.80	< 0.00001	< 0.00005	3.02	0.731	0.00097	0.000753	0.301	0.00023
41: VIS-CV5-PEG-265	< 3	< 6	0.68	< 0.00001	< 0.00005	2.24	0.834	0.00198	0.000313	0.190	0.00013
42: VIS-CV5-PEG-266	< 3	< 6	0.61	< 0.00001	< 0.00005	1.01	0.169	0.00187	0.00279	0.208	0.00054
43: VIS-CV5-PEG-267	< 3	< 6	1.08	< 0.00001	< 0.00005	0.960	0.156	0.00091	0.00310	0.225	0.00135
44: VIS-CV5-PEG-268	< 3	< 6	0.37	< 0.00001	< 0.00005	0.973	0.114	0.00173	0.0125	0.146	0.00046
45: VIS-CV5-PEG-269	< 3	< 6	0.82	< 0.00001	0.00006	3.53	0.379	0.00106	0.000764	0.340	0.00142
46: VIS-CV5-PEG-270	< 3	< 6	0.23	< 0.00001	< 0.00005	0.725	0.570	0.00066	0.000428	0.097	0.00005
47: VIS-CV5-PEG-271	< 3	< 6	1.50	< 0.00001	< 0.00005	2.67	1.51	0.00199	0.000738	0.322	0.00034
48: VIS-CV5-PEG-272	< 3	< 6	0.63	< 0.00001	< 0.00005	4.61	0.551	0.00187	0.00995	0.204	0.00009
49: VIS-CV5-PEG-273	< 3	< 6	1.02	< 0.00001	< 0.00005	1.74	0.929	0.00340	0.00133	0.269	0.00056
50: VIS-CV5-PEG-274	< 3	< 6	0.29	< 0.00001	< 0.00005	0.452	0.801	0.00063	0.000870	0.221	0.00009
51: VIS-CV5-PEG-275	< 3	< 6	0.80	< 0.00001	0.00009	1.34	0.250	0.00097	0.00178	0.186	0.00653
52: VIS-CV5-PEG-276	< 3	< 6	1.12	< 0.00001	0.00005	3.93	1.27	0.00358	0.000497	0.216	0.00062
53-DUP: VIS-CV5-MS-249	< 3	< 6	0.09	< 0.00001	< 0.00005	2.52	0.159	0.0103	0.000047	0.138	0.00003
54-DUP: VIS-CV5-PEG-276	< 3	< 6	1.11	< 0.00001	< 0.00005	4.34	1.35	0.00374	0.000722	0.213	0.00060
55-BLK: CTEU Blank	< 3	< 6	< 0.03	< 0.00001	< 0.00005	0.009	0.0005	0.00342	< 0.000007	< 0.002	< 0.00001

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LR Report : **CA11024-FEB25**

Sample ID	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25
2: Analysis Start Time	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26
3: Analysis Completed Date	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	10:24	10:24	10:24	10:25	10:25	10:25	10:25	10:25	10:25	10:25	10:25	10:25
5: VIS-CV5-MS-229	26.1	0.000029	0.000089	0.00054	0.002	0.017	28.2	1.43	13.6	0.00835	0.0038	20.1
6: VIS-CV5-MS-230	12.0	0.000028	0.000145	0.00173	< 0.001	0.086	10.4	0.510	5.35	0.00187	0.0393	30.8
7: VIS-CV5-MS-231	15.3	0.000006	0.000056	0.00073	0.003	0.170	54.3	0.789	8.90	0.00236	0.0083	15.1
8: VIS-CV5-MS-232	2.64	0.000016	0.000523	0.00249	< 0.001	0.499	30.4	1.98	2.97	0.0123	0.0064	16.7
9: VIS-CV5-MS-233	1.67	0.000009	0.000632	0.00122	0.001	0.653	20.8	2.23	2.35	0.0114	0.0067	20.4
10: VIS-CV5-MS-234	1.30	0.000020	0.000628	0.00288	0.002	0.977	28.3	2.59	0.721	0.0146	0.0050	16.4
11: VIS-CV5-MS-235	1.35	0.000018	0.000393	0.00030	< 0.001	0.816	25.0	3.88	0.681	0.0166	0.0070	19.1
12: VIS-CV5-MS-236	1.25	0.000005	0.000097	0.00345	< 0.001	0.245	20.2	0.0939	0.594	0.00527	0.0045	26.3
13: VIS-CV5-MS-237	0.86	0.000008	0.000097	0.00668	0.001	0.183	23.9	0.0675	0.465	0.00407	0.0086	23.2
14: VIS-CV5-MS-238	2.02	0.000010	0.000740	0.00072	< 0.001	1.28	29.6	2.80	1.10	0.0283	0.0030	16.0
15: VIS-CV5-MS-239	5.69	0.000005	0.000171	0.00276	< 0.001	0.244	9.81	2.00	3.51	0.00374	0.0037	24.7
16: VIS-CV5-MS-240	2.43	0.000010	0.000251	0.00293	0.001	0.370	31.3	1.15	0.824	0.0110	0.0059	16.3
17: VIS-CV5-MS-241	1.66	0.000024	0.00111	0.00527	0.002	2.68	36.6	3.93	1.79	0.0665	0.0068	18.8
18: VIS-CV5-MS-242	1.85	0.000013	0.000595	0.00230	0.001	1.45	35.6	2.31	0.978	0.0287	0.0071	15.5
19: VIS-CV5-MS-243	4.05	0.000005	0.000618	0.00750	0.002	0.868	6.54	1.39	3.31	0.0180	0.0071	26.3
20: VIS-CV5-MS-244	1.64	0.000016	0.00183	0.00111	0.002	2.29	41.1	3.36	1.03	0.0332	0.0057	10.5
21: VIS-CV5-MS-245	1.20	0.000009	0.000668	0.00108	0.001	1.62	40.5	3.78	0.834	0.0318	0.0031	13.3
22: VIS-CV5-MS-246	1.28	0.000043	0.000927	0.00085	0.001	1.64	23.5	2.52	0.887	0.0467	0.0230	14.2
23: VIS-CV5-MS-247	1.16	0.000042	0.000930	0.00059	0.002	2.27	28.4	3.49	0.932	0.0667	0.0044	12.3
24: VIS-CV5-MS-248	1.90	0.000015	0.00121	0.00085	0.001	1.56	29.1	3.06	0.844	0.0284	0.0046	12.4
25: VIS-CV5-MS-249	1.29	0.000019	0.000712	0.00097	0.001	1.24	29.1	3.81	0.679	0.0272	0.0086	13.1
26: VIS-CV5-MS-250	10.0	0.000003	0.000011	< 0.00008	< 0.001	0.014	0.783	0.0959	3.22	0.00159	0.0017	16.9
27: VIS-CV5-MS-251	3.48	0.000014	0.000451	0.00035	< 0.001	0.990	18.4	0.268	1.57	0.0205	0.0112	20.9
28: VIS-CV5-MS-252	6.66	0.000003	0.000378	0.00120	0.002	0.363	5.88	1.03	2.62	0.00964	0.0029	16.6
29: VIS-CV5-MS-253	85.0	0.000042	0.000186	0.00009	< 0.001	< 0.007	29.1	0.865	10.9	0.0396	0.0071	18.1
30: VIS-CV5-MS-254	2.41	0.000011	0.00163	0.00624	< 0.001	1.46	26.6	1.64	1.18	0.0378	0.0059	13.8
31: VIS-CV5-MS-255	3.16	0.000093	0.00159	0.00489	0.003	1.58	21.3	2.12	1.13	0.0405	0.0125	16.0
32: VIS-CV5-MS-256	2.52	0.000026	0.000689	0.00489	0.002	1.47	22.1	1.54	1.05	0.0204	0.0024	14.5
33: VIS-CV5-MS-257	2.64	0.000007	0.000422	0.00294	< 0.001	0.156	16.8	0.0779	0.384	0.00354	0.0055	22.0

OnLine LIMS

000409317O

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LR Report : **CA11024-FEB25**

Sample ID	Ca mg/L	Cd mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Na mg/L
34: VIS-CV5-MS-258	2.01	0.000013	0.00122	0.00151	0.002	1.58	34.4	0.198	1.01	0.00941	0.0059	9.52
35: VIS-CV5-PEG-259	3.81	0.000005	0.000100	0.00075	< 0.001	0.121	7.54	0.505	0.673	0.00265	0.0015	21.3
36: VIS-CV5-PEG-260	3.93	0.000021	0.000090	0.00312	0.001	0.084	20.0	0.779	0.546	0.00875	0.0233	19.0
37: VIS-CV5-PEG-261	2.58	0.000062	0.000370	0.00086	0.018	0.523	10.1	1.53	1.26	0.0186	0.0029	22.5
38: VIS-CV5-PEG-262	1.03	0.000034	0.000062	0.00534	< 0.001	0.267	1.29	0.785	0.128	0.0199	0.0080	42.0
39: VIS-CV5-PEG-263	0.68	0.000036	0.000162	0.00150	0.003	0.172	6.56	1.14	0.278	0.0152	0.0031	35.9
40: VIS-CV5-PEG-264	0.55	0.000018	0.000097	0.00998	< 0.001	0.150	0.383	0.258	0.090	0.0124	0.0043	34.1
41: VIS-CV5-PEG-265	0.93	0.000009	0.000468	0.00413	0.002	0.194	1.01	0.385	0.191	0.0139	0.0016	40.2
42: VIS-CV5-PEG-266	2.97	0.000014	0.000110	0.00267	0.001	0.084	18.8	0.882	0.445	0.00742	0.0139	18.1
43: VIS-CV5-PEG-267	3.39	0.000021	0.000039	0.00131	< 0.001	0.051	17.4	1.55	0.403	0.0174	0.0131	19.0
44: VIS-CV5-PEG-268	5.19	0.000019	0.000204	0.00786	0.002	0.246	7.11	0.484	1.19	0.0155	0.0260	31.0
45: VIS-CV5-PEG-269	1.23	0.000036	0.000021	0.00395	< 0.001	0.136	12.4	1.31	0.109	0.0443	0.0019	22.3
46: VIS-CV5-PEG-270	2.94	0.000004	0.00164	0.00136	0.002	0.265	0.319	0.416	0.983	0.00642	0.0017	27.4
47: VIS-CV5-PEG-271	1.17	0.000041	0.000072	0.00984	0.002	0.078	18.7	0.524	0.106	0.0320	0.0149	22.2
48: VIS-CV5-PEG-272	1.16	0.000020	0.000267	0.0256	0.001	0.384	6.98	0.214	0.465	0.0203	0.0026	29.4
49: VIS-CV5-PEG-273	1.31	0.000050	0.000161	0.00768	0.003	0.158	21.9	0.160	0.197	0.0165	0.0095	23.4
50: VIS-CV5-PEG-274	5.60	0.000014	0.000350	0.00280	< 0.001	0.450	0.477	0.538	3.41	0.00791	0.0264	26.7
51: VIS-CV5-PEG-275	0.79	0.000011	0.000081	0.00525	0.002	0.063	18.9	0.528	0.124	0.0108	0.0012	22.7
52: VIS-CV5-PEG-276	0.63	0.000010	0.000074	0.00296	< 0.001	0.159	11.5	0.819	0.130	0.0227	0.0008	23.4
53-DUP: VIS-CV5-MS-249	1.33	0.000024	0.000769	0.00093	0.001	1.35	29.3	3.93	0.723	0.0290	0.0086	13.5
54-DUP: VIS-CV5-PEG-276	0.54	0.000010	0.000089	0.00263	< 0.001	0.185	11.6	0.810	0.130	0.0250	0.0008	23.6
55-BLK: CTEU Blank	0.05	0.000005	0.000013	< 0.00008	< 0.001	< 0.007	0.509	0.0005	0.008	0.00032	< 0.0004	0.50

Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25
2: Analysis Start Time	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	12:26	08:53	12:26
3: Analysis Completed Date	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25	10-Apr-25
4: Analysis Completed Time	10:25	10:25	10:25	10:31	10:31	10:31	10:31	10:32	10:32	10:32	10:32	10:32
5: VIS-CV5-MS-229	0.0005	< 0.003	< 0.00009	0.0068	0.00060	2.11	< 0.00006	0.0372	0.0005	0.000024	0.000299	0.00329
6: VIS-CV5-MS-230	0.0005	0.020	0.00016	0.157	0.00186	2.87	0.00008	0.0226	0.0019	0.000093	0.00835	0.0236
7: VIS-CV5-MS-231	0.0002	0.004	< 0.00009	< 0.0009	0.00025	1.75	0.00006	0.0174	0.0066	0.000068	0.00191	0.00290

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LR Report : CA11024-FEB25

Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
8: VIS-CV5-MS-232	0.0011	0.009	0.00074	0.431	0.00056	3.11	0.00041	0.0122	0.0150	0.000089	0.000412	0.0199
9: VIS-CV5-MS-233	0.0008	0.011	< 0.00009	0.0453	0.00013	3.13	0.00006	0.00593	0.0147	0.000049	0.000112	0.0148
10: VIS-CV5-MS-234	0.0011	0.014	0.00075	0.0185	0.00073	2.52	0.00010	0.00439	0.0413	0.000112	0.00436	0.0294
11: VIS-CV5-MS-235	0.0003	0.035	0.00086	0.0918	0.00018	2.16	0.00019	0.00440	0.0438	0.000165	0.00415	0.0209
12: VIS-CV5-MS-236	0.0002	0.038	0.00030	0.0046	0.00012	2.05	< 0.00006	0.00445	0.0074	0.000042	0.00236	0.0559
13: VIS-CV5-MS-237	0.0002	0.079	0.00016	0.0040	0.00012	2.25	0.00008	0.00251	0.0056	0.000042	0.0124	0.0883
14: VIS-CV5-MS-238	0.0009	0.015	0.00071	0.133	0.00037	2.67	0.00014	0.00434	0.0727	0.000123	0.00175	0.0353
15: VIS-CV5-MS-239	0.0007	0.015	< 0.00009	0.330	0.00018	1.98	< 0.00006	0.0125	0.0115	0.000008	0.000082	0.0187
16: VIS-CV5-MS-240	0.0005	0.010	0.00043	0.0083	0.00056	2.68	< 0.00006	0.00500	0.0305	0.000038	0.000811	0.0171
17: VIS-CV5-MS-241	0.0025	0.029	0.00143	0.0756	0.00031	5.46	0.00065	0.00438	0.181	0.000482	0.00553	0.0314
18: VIS-CV5-MS-242	0.0011	0.024	0.00059	0.0430	0.00016	3.02	0.00064	0.00484	0.0828	0.000119	0.00180	0.0388
19: VIS-CV5-MS-243	0.0017	0.007	0.00022	0.0747	0.00032	3.76	0.00011	0.00833	0.0379	0.000039	0.00137	0.0241
20: VIS-CV5-MS-244	0.0026	0.090	0.00178	0.0421	0.00027	4.10	0.00011	0.00288	0.128	0.000099	0.000825	0.0862
21: VIS-CV5-MS-245	0.0008	0.043	0.00089	0.0358	0.00019	3.21	0.00015	0.00296	0.119	0.000296	0.00584	0.0746
22: VIS-CV5-MS-246	0.0009	0.035	0.00561	0.0784	0.00060	3.79	0.00040	0.00381	0.0971	0.000817	0.0108	0.0292
23: VIS-CV5-MS-247	0.0005	0.071	0.00716	0.131	0.00053	5.10	0.00054	0.00417	0.174	0.000566	0.00689	0.0393
24: VIS-CV5-MS-248	0.0012	0.029	0.00105	0.116	0.00010	3.13	0.00007	0.00496	0.0819	0.000087	0.00177	0.0256
25: VIS-CV5-MS-249	0.0006	0.042	0.00115	0.0810	0.00033	3.60	0.00017	0.00540	0.0816	0.000179	0.00311	0.0454
26: VIS-CV5-MS-250	< 0.0001	0.005	< 0.00009	0.0029	0.00020	1.49	0.00016	0.0116	0.0007	0.000007	0.00164	0.00055
27: VIS-CV5-MS-251	0.0010	0.031	0.00069	0.0173	0.00012	3.26	< 0.00006	0.0105	0.0609	0.000043	0.000628	0.0169
28: VIS-CV5-MS-252	0.0007	0.028	0.00013	0.118	0.00053	2.74	0.00049	0.00995	0.0205	0.000084	0.00185	0.0124
29: VIS-CV5-MS-253	0.0011	< 0.003	< 0.00009	0.0086	0.00035	4.64	< 0.00006	0.103	0.0001	0.000022	0.00212	0.00022
30: VIS-CV5-MS-254	0.0037	0.031	0.00062	0.343	0.00048	5.77	0.00028	0.0109	0.117	0.000349	0.00138	0.0312
31: VIS-CV5-MS-255	0.0029	0.025	0.00111	0.204	0.00026	4.78	0.00014	0.00729	0.126	0.000129	0.00287	0.0327
32: VIS-CV5-MS-256	0.0013	0.023	0.00069	0.0476	0.00025	3.91	0.00006	0.00496	0.0979	0.000026	0.000634	0.0247
33: VIS-CV5-MS-257	0.0005	0.073	0.00096	0.0017	0.00059	3.43	0.00007	0.00569	0.0298	0.000010	0.00879	0.0558
34: VIS-CV5-MS-258	0.0014	0.042	0.00055	0.0039	0.00010	4.25	0.00032	0.00422	0.105	0.000018	0.000772	0.0279
35: VIS-CV5-PEG-259	0.0002	0.018	0.00033	0.170	0.00156	2.59	0.00011	0.00713	0.0091	0.000150	0.00635	0.0140
36: VIS-CV5-PEG-260	< 0.0001	0.435	0.00055	0.0446	0.00025	6.28	0.00065	0.00842	0.0011	0.000920	0.00172	0.00446
37: VIS-CV5-PEG-261	0.0002	0.086	0.00115	0.156	0.00041	5.66	0.00273	0.00825	0.0021	0.000423	0.00507	0.00222
38: VIS-CV5-PEG-262	< 0.0001	0.777	0.00158	0.188	0.00017	9.93	0.00238	0.00320	0.0015	0.000348	0.436	0.00232
39: VIS-CV5-PEG-263	< 0.0001	0.708	0.00056	0.164	0.00139	7.26	0.00168	0.00351	0.0008	0.000222	0.0318	0.00533
40: VIS-CV5-PEG-264	< 0.0001	0.484	0.00098	0.101	0.00011	10.3	0.00220	0.00155	0.0029	0.000401	0.266	0.00315

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Sample ID	Ni mg/L	P mg/L	Pb mg/L	Sb mg/L	Se mg/L	Si mg/L	Sn mg/L	Sr mg/L	Ti mg/L	Tl mg/L	U mg/L	V mg/L
41: VIS-CV5-PEG-265	0.0001	0.338	0.00156	0.125	0.00034	9.68	0.00160	0.00219	0.0018	0.000349	0.295	0.00218
42: VIS-CV5-PEG-266	< 0.0001	0.519	0.00324	0.0362	0.00020	6.77	0.00067	0.00703	0.0006	0.000942	0.00160	0.00605
43: VIS-CV5-PEG-267	< 0.0001	0.971	0.00027	0.0481	0.00024	5.73	0.00098	0.00578	0.0012	0.000915	0.00496	0.00255
44: VIS-CV5-PEG-268	0.0002	0.319	0.00061	0.0263	0.00014	8.59	0.00128	0.0147	0.0012	0.000463	0.00696	0.00528
45: VIS-CV5-PEG-269	< 0.0001	0.636	0.00487	0.165	0.00023	6.06	0.00167	0.00322	0.0022	0.00131	0.988	0.00102
46: VIS-CV5-PEG-270	0.0006	0.050	0.00218	0.0356	0.00021	7.32	0.00043	0.00544	0.0007	0.000042	0.0193	0.00537
47: VIS-CV5-PEG-271	0.0001	0.974	0.00090	0.167	0.00016	7.54	0.00293	0.00528	0.0014	0.00258	0.0507	0.00148
48: VIS-CV5-PEG-272	0.0003	0.391	0.00092	0.102	0.00022	6.12	0.00318	0.00326	0.0047	0.00113	0.0545	0.00387
49: VIS-CV5-PEG-273	0.0004	0.653	0.00157	0.124	0.00085	7.18	0.00135	0.00585	0.0033	0.00142	0.0146	0.00851
50: VIS-CV5-PEG-274	0.0011	0.064	0.00482	0.115	0.00028	5.11	0.00020	0.0178	0.0012	0.000070	0.00783	0.0155
51: VIS-CV5-PEG-275	0.0002	0.671	0.00065	0.0552	0.00021	7.80	0.00064	0.00194	0.0006	0.00165	0.0400	0.00315
52: VIS-CV5-PEG-276	< 0.0001	0.590	0.00087	0.143	0.00026	6.40	0.00167	0.00242	0.0021	0.00103	0.0582	0.00153
53-DUP: VIS-CV5-MS-249	0.0006	0.042	0.00120	0.0812	0.00030	3.52	0.00019	0.00564	0.0886	0.000204	0.00326	0.0471
54-DUP: VIS-CV5-PEG-276	< 0.0001	0.608	0.00086	0.145	0.00026	7.33	0.00191	0.00235	0.0026	0.00113	0.0591	0.00152
55-BLK: CTEU Blank	0.0001	0.017	< 0.00009	< 0.0009	< 0.00004	0.02	< 0.00006	0.00111	0.0001	< 0.000005	0.000005	0.00003

Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25
2: Analysis Start Time	12:26	12:26	08:53	08:53	08:53	08:53	08:53	08:53	08:53	12:26	12:26	08:53
3: Analysis Completed Date	10-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	10:32	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	< 0.002	---	---	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	< 0.002	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	0.002	0.00003	0.00026	0.0467	< 0.00001	< 0.00001	< 0.00001	0.0031	0.00001	< 0.0001	< 0.0001	< 0.00001
8: VIS-CV5-MS-232	0.002	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	< 0.002	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	0.008	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	0.002	< 0.00001	0.00228	0.0885	0.00009	0.00004	0.00002	0.0164	0.00016	< 0.0001	0.0002	0.00002
12: VIS-CV5-MS-236	< 0.002	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	< 0.002	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	0.004	---	---	---	---	---	---	---	---	---	---	---

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Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
15: VIS-CV5-MS-239	< 0.002	0.00001	0.00018	0.0254	< 0.00001	< 0.00001	< 0.00001	0.0062	0.00001	< 0.0001	< 0.0001	< 0.00001
16: VIS-CV5-MS-240	< 0.002	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	0.008	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	0.004	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	0.002	0.00002	0.00174	0.0194	0.00005	0.00002	0.00001	0.0058	0.00009	0.0001	< 0.0001	< 0.00001
20: VIS-CV5-MS-244	0.008	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	0.004	---	---	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-246	0.006	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	0.006	< 0.00001	0.01806	0.270	0.00060	0.00022	0.00010	0.0115	0.00111	0.0003	0.0001	0.00010
24: VIS-CV5-MS-248	0.004	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	0.003	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	< 0.002	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	0.003	< 0.00001	0.00143	0.0039	0.00004	0.00002	0.00002	0.0061	0.00009	< 0.0001	< 0.0001	< 0.00001
28: VIS-CV5-MS-252	0.002	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-253	< 0.002	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	0.003	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	0.015	0.00001	0.00465	0.0262	0.00013	0.00005	0.00005	0.0094	0.00027	0.0001	0.0001	0.00003
32: VIS-CV5-MS-256	0.006	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	0.002	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	0.006	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.002	0.00001	0.00087	0.0765	0.00003	0.00001	< 0.00001	0.0168	0.00005	0.0001	< 0.0001	< 0.00001
36: VIS-CV5-PEG-260	< 0.002	< 0.00001	0.00015	0.0316	0.00002	< 0.00001	< 0.00001	0.0093	0.00003	0.0003	< 0.0001	< 0.00001
37: VIS-CV5-PEG-261	0.009	0.00004	0.00016	0.0436	0.00004	0.00002	0.00001	0.0262	0.00004	0.0003	< 0.0001	< 0.00001
38: VIS-CV5-PEG-262	0.003	0.00005	0.00103	0.0270	0.00010	0.00002	0.00003	0.0238	0.00022	0.0012	0.0004	0.00001
39: VIS-CV5-PEG-263	0.006	0.00006	0.00011	0.0419	0.00002	< 0.00001	< 0.00001	0.0544	0.00003	0.0003	0.0001	< 0.00001
40: VIS-CV5-PEG-264	0.002	0.00006	0.00041	0.0088	0.00007	< 0.00001	0.00002	0.0206	0.00013	0.0017	0.0004	< 0.00001
41: VIS-CV5-PEG-265	0.003	0.00005	0.00022	0.0079	0.00004	0.00001	0.00002	0.0273	0.00006	0.0010	0.0002	< 0.00001
42: VIS-CV5-PEG-266	0.002	0.00002	0.00022	0.0385	0.00002	< 0.00001	< 0.00001	0.0098	0.00002	0.0003	< 0.0001	< 0.00001
43: VIS-CV5-PEG-267	< 0.002	0.00003	0.00006	0.0647	< 0.00001	< 0.00001	< 0.00001	0.0186	0.00001	0.0003	< 0.0001	< 0.00001
44: VIS-CV5-PEG-268	0.002	0.00003	0.00022	0.0193	0.00004	0.00002	0.00001	0.0068	0.00005	0.0005	0.0001	< 0.00001
45: VIS-CV5-PEG-269	0.004	0.00005	0.00124	0.0705	0.00052	0.00009	< 0.00001	0.0363	0.00077	0.0011	0.0004	0.00005
46: VIS-CV5-PEG-270	< 0.002	0.00003	0.00026	0.0030	0.00011	0.00007	0.00002	0.0125	0.00010	0.0002	< 0.0001	0.00002
47: VIS-CV5-PEG-271	0.005	0.00002	0.00019	0.0559	0.00003	< 0.00001	< 0.00001	0.0293	0.00005	0.0008	0.0002	< 0.00001

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LR Report : **CA11024-FEB25**

Sample ID	Zn mg/L	Au mg/L	Ce mg/L	Cs mg/L	Dy mg/L	Er mg/L	Eu mg/L	Ga mg/L	Gd (tot) mg/L	Ge mg/L	Hf mg/L	Ho mg/L
48: VIS-CV5-PEG-272	0.004	0.00003	0.00046	0.0148	0.00013	0.00003	0.00003	0.0477	0.00023	0.0005	0.0001	0.00002
49: VIS-CV5-PEG-273	0.011	0.00002	0.00051	0.0434	0.00003	< 0.00001	< 0.00001	0.0244	0.00006	0.0007	0.0002	< 0.00001
50: VIS-CV5-PEG-274	< 0.002	0.00001	0.00004	0.0349	0.00003	< 0.00001	< 0.00001	0.0018	0.00003	0.0001	< 0.0001	< 0.00001
51: VIS-CV5-PEG-275	0.004	0.00002	0.00044	0.0415	0.00002	< 0.00001	< 0.00001	0.0226	0.00004	0.0010	0.0001	< 0.00001
52: VIS-CV5-PEG-276	0.003	0.00002	0.00017	0.0298	0.00006	0.00001	< 0.00001	0.0379	0.00007	0.0005	< 0.0001	< 0.00001
53-DUP: VIS-CV5-MS-249	0.003	< 0.00001	0.00390	0.100	0.00017	0.00009	0.00004	0.0106	0.00026	0.0001	< 0.0001	0.00004
54-DUP: VIS-CV5-PEG-276	0.003	0.00002	0.00014	0.0325	0.00006	0.00001	< 0.00001	0.0386	0.00008	0.0006	< 0.0001	< 0.00001
55-BLK: CTEU Blank	< 0.002	< 0.00001	< 0.00001	0.0002	< 0.00001	< 0.00001	< 0.00001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
1: Analysis Start Date	06-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	07-Apr-25	06-Apr-25
2: Analysis Start Time	08:53	12:26	08:53	08:53	12:26	08:53	12:26	12:26	08:53	12:26	12:26	08:53
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	---	---	---	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	---	---	---	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	< 0.00001	< 0.00001	0.00014	< 0.0001	< 0.0001	0.00010	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.592
8: VIS-CV5-MS-232	---	---	---	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	---	---	---	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	---	---	---	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	< 0.00001	< 0.00001	0.00117	< 0.0001	0.0003	0.00095	< 0.0001	< 0.0001	0.00026	< 0.0001	< 0.00001	0.353
12: VIS-CV5-MS-236	---	---	---	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	---	---	---	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	---	---	---	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-239	< 0.00001	< 0.00001	0.00010	< 0.0001	< 0.0001	0.00009	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.0700
16: VIS-CV5-MS-240	---	---	---	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	---	---	---	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	---	---	---	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	< 0.00001	< 0.00001	0.00093	< 0.0001	0.0001	0.00064	< 0.0001	< 0.0001	0.00019	< 0.0001	< 0.00001	0.0882
20: VIS-CV5-MS-244	---	---	---	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	---	---	---	---	---	---	---	---	---	---	---	---

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0004093170

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11024-FEB25**

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
22: VIS-CV5-MS-246	---	---	---	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	< 0.00001	< 0.00001	0.00903	< 0.0001	0.0005	0.00744	< 0.0001	< 0.0001	0.00206	< 0.0001	< 0.00001	0.572
24: VIS-CV5-MS-248	---	---	---	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	---	---	---	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	---	---	---	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	< 0.00001	< 0.00001	0.00071	< 0.0001	< 0.0001	0.00063	< 0.0001	< 0.0001	0.00016	< 0.0001	< 0.00001	0.0391
28: VIS-CV5-MS-252	---	---	---	---	---	---	---	---	---	---	---	---
29: VIS-CV5-MS-253	---	---	---	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	---	---	---	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	0.00001	< 0.00001	0.00240	< 0.0001	0.0002	0.00187	< 0.0001	< 0.0001	0.00051	< 0.0001	< 0.00001	0.179
32: VIS-CV5-MS-256	---	---	---	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	---	---	---	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	---	---	---	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.00001	< 0.00001	0.00045	< 0.0001	0.0002	0.00030	< 0.0001	< 0.0001	0.00010	< 0.0001	< 0.00001	0.249
36: VIS-CV5-PEG-260	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0004	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.985
37: VIS-CV5-PEG-261	0.00002	< 0.00001	0.00007	< 0.0001	0.0007	0.00013	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.556
38: VIS-CV5-PEG-262	< 0.00001	< 0.00001	0.00030	< 0.0001	0.0079	0.00059	< 0.0001	< 0.0001	0.00015	< 0.0001	< 0.00001	0.0964
39: VIS-CV5-PEG-263	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0016	0.00005	< 0.0001	< 0.0001	0.00001	< 0.0001	< 0.00001	0.131
40: VIS-CV5-PEG-264	< 0.00001	< 0.00001	0.00021	< 0.0001	0.0152	0.00018	< 0.0001	< 0.0001	0.00005	< 0.0001	< 0.00001	0.0267
41: VIS-CV5-PEG-265	< 0.00001	< 0.00001	0.00019	< 0.0001	0.0123	0.00012	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.0229
42: VIS-CV5-PEG-266	< 0.00001	< 0.00001	0.00010	< 0.0001	0.0002	0.00011	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.980
43: VIS-CV5-PEG-267	< 0.00001	< 0.00001	0.00003	< 0.0001	0.0005	0.00004	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	1.35
44: VIS-CV5-PEG-268	< 0.00001	< 0.00001	0.00009	< 0.0001	0.0011	0.00013	< 0.0001	< 0.0001	0.00003	< 0.0001	< 0.00001	0.393
45: VIS-CV5-PEG-269	< 0.00001	< 0.00001	0.00046	< 0.0001	0.0115	0.00066	< 0.0001	< 0.0001	0.00020	< 0.0001	< 0.00001	0.740
46: VIS-CV5-PEG-270	< 0.00001	< 0.00001	0.00011	< 0.0001	0.0011	0.00018	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.0079
47: VIS-CV5-PEG-271	< 0.00001	< 0.00001	0.00011	< 0.0001	0.0019	0.00008	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	1.20
48: VIS-CV5-PEG-272	0.00002	< 0.00001	0.00017	< 0.0001	0.0044	0.00042	< 0.0001	< 0.0001	0.00008	< 0.0001	< 0.00001	0.415
49: VIS-CV5-PEG-273	< 0.00001	< 0.00001	0.00026	< 0.0001	0.0020	0.00020	< 0.0001	< 0.0001	0.00006	< 0.0001	< 0.00001	1.20
50: VIS-CV5-PEG-274	< 0.00001	< 0.00001	0.00002	< 0.0001	0.0006	0.00004	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0190
51: VIS-CV5-PEG-275	< 0.00001	< 0.00001	0.00033	< 0.0001	0.0033	0.00012	< 0.0001	< 0.0001	0.00004	< 0.0001	< 0.00001	0.882
52: VIS-CV5-PEG-276	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0020	0.00009	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.597
53-DUP: VIS-CV5-MS-249	< 0.00001	< 0.00001	0.00194	< 0.0001	0.0002	0.00165	< 0.0001	< 0.0001	0.00046	< 0.0001	< 0.00001	0.306
54-DUP: VIS-CV5-PEG-276	< 0.00001	< 0.00001	0.00007	< 0.0001	0.0023	0.00006	< 0.0001	< 0.0001	0.00002	< 0.0001	< 0.00001	0.628

OnLine LIMS

000409317O

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Phone: 705-652-2000 FAX: 705-652-6365

Sample ID	In mg/L	Ir mg/L	La mg/L	Lu mg/L	Nb mg/L	Nd mg/L	Os mg/L	Pd mg/L	Pr mg/L	Pt mg/L	Rh mg/L	Rb mg/L
55-BLK: CTEU Blank	< 0.00001	< 0.00001	< 0.00001	< 0.0001	0.0002	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.00001	0.0006

Sample ID	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
1: Analysis Start Date	07-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	07-Apr-25	06-Apr-25	06-Apr-25
2: Analysis Start Time	12:26	12:26	08:53	08:53	12:26	08:53	12:26	08:53	08:53
3: Analysis Completed Date	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25	11-Apr-25
4: Analysis Completed Time	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23	08:23
5: VIS-CV5-MS-229	---	---	---	---	---	---	---	---	---
6: VIS-CV5-MS-230	---	---	---	---	---	---	---	---	---
7: VIS-CV5-MS-231	< 0.0001	< 0.00001	0.00002	< 0.0001	< 0.0001	< 0.00001	< 0.0001	0.0001	< 0.00001
8: VIS-CV5-MS-232	---	---	---	---	---	---	---	---	---
9: VIS-CV5-MS-233	---	---	---	---	---	---	---	---	---
10: VIS-CV5-MS-234	---	---	---	---	---	---	---	---	---
11: VIS-CV5-MS-235	< 0.0001	< 0.00001	0.00017	0.0002	< 0.0001	0.00002	< 0.0001	0.0005	< 0.00001
12: VIS-CV5-MS-236	---	---	---	---	---	---	---	---	---
13: VIS-CV5-MS-237	---	---	---	---	---	---	---	---	---
14: VIS-CV5-MS-238	---	---	---	---	---	---	---	---	---
15: VIS-CV5-MS-239	< 0.0001	< 0.00001	0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001
16: VIS-CV5-MS-240	---	---	---	---	---	---	---	---	---
17: VIS-CV5-MS-241	---	---	---	---	---	---	---	---	---
18: VIS-CV5-MS-242	---	---	---	---	---	---	---	---	---
19: VIS-CV5-MS-243	< 0.0001	< 0.00001	0.00010	0.0002	< 0.0001	0.00001	< 0.0001	0.0005	< 0.00001
20: VIS-CV5-MS-244	---	---	---	---	---	---	---	---	---
21: VIS-CV5-MS-245	---	---	---	---	---	---	---	---	---
22: VIS-CV5-MS-246	---	---	---	---	---	---	---	---	---
23: VIS-CV5-MS-247	< 0.0001	< 0.00001	0.00125	0.0007	< 0.0001	0.00014	< 0.0001	0.0034	0.00002
24: VIS-CV5-MS-248	---	---	---	---	---	---	---	---	---
25: VIS-CV5-MS-249	---	---	---	---	---	---	---	---	---
26: VIS-CV5-MS-250	---	---	---	---	---	---	---	---	---
27: VIS-CV5-MS-251	< 0.0001	< 0.00001	0.00009	0.0004	< 0.0001	0.00001	< 0.0001	0.0003	< 0.00001
28: VIS-CV5-MS-252	---	---	---	---	---	---	---	---	---

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LR Report : **CA11024-FEB25**

Sample ID	Re mg/L	Ru mg/L	Sm mg/L	Sc mg/L	Ta mg/L	Tb mg/L	Te mg/L	Th mg/L	Tm mg/L
29: VIS-CV5-MS-253	---	---	---	---	---	---	---	---	---
30: VIS-CV5-MS-254	---	---	---	---	---	---	---	---	---
31: VIS-CV5-MS-255	< 0.0001	< 0.00001	0.00030	0.0005	< 0.0001	0.00003	< 0.0001	0.0009	0.00001
32: VIS-CV5-MS-256	---	---	---	---	---	---	---	---	---
33: VIS-CV5-MS-257	---	---	---	---	---	---	---	---	---
34: VIS-CV5-MS-258	---	---	---	---	---	---	---	---	---
35: VIS-CV5-PEG-259	< 0.0001	< 0.00001	0.00005	0.0001	0.0004	< 0.00001	< 0.0001	0.0002	< 0.00001
36: VIS-CV5-PEG-260	< 0.0001	< 0.00001	0.00002	0.0003	0.0003	< 0.00001	< 0.0001	0.0005	< 0.00001
37: VIS-CV5-PEG-261	< 0.0001	< 0.00001	0.00004	0.0003	0.0008	< 0.00001	< 0.0001	0.0014	< 0.00001
38: VIS-CV5-PEG-262	< 0.0001	< 0.00001	0.00016	0.0004	0.0028	0.00003	< 0.0001	0.0041	< 0.00001
39: VIS-CV5-PEG-263	< 0.0001	< 0.00001	0.00002	0.0004	0.0022	< 0.00001	< 0.0001	0.0006	< 0.00001
40: VIS-CV5-PEG-264	< 0.0001	< 0.00001	0.00012	0.0003	0.0022	0.00002	< 0.0001	0.0041	< 0.00001
41: VIS-CV5-PEG-265	< 0.0001	< 0.00001	0.00005	0.0003	0.0022	0.00001	< 0.0001	0.0019	< 0.00001
42: VIS-CV5-PEG-266	< 0.0001	< 0.00001	0.00002	0.0002	0.0005	< 0.00001	< 0.0001	0.0003	< 0.00001
43: VIS-CV5-PEG-267	< 0.0001	< 0.00001	0.00001	0.0002	0.0005	< 0.00001	< 0.0001	0.0005	< 0.00001
44: VIS-CV5-PEG-268	< 0.0001	< 0.00001	0.00005	0.0004	0.0011	< 0.00001	< 0.0001	0.0009	< 0.00001
45: VIS-CV5-PEG-269	< 0.0001	< 0.00001	0.00079	0.0003	0.0023	0.00016	< 0.0001	0.0077	0.00001
46: VIS-CV5-PEG-270	< 0.0001	< 0.00001	0.00006	0.0003	0.0013	0.00002	< 0.0001	0.0004	< 0.00001
47: VIS-CV5-PEG-271	< 0.0001	< 0.00001	0.00005	0.0003	0.0006	< 0.00001	< 0.0001	0.0011	< 0.00001
48: VIS-CV5-PEG-272	< 0.0001	< 0.00001	0.00020	0.0003	0.0014	0.00004	< 0.0001	0.0024	< 0.00001
49: VIS-CV5-PEG-273	< 0.0001	< 0.00001	0.00005	0.0003	0.0004	< 0.00001	< 0.0001	0.0007	< 0.00001
50: VIS-CV5-PEG-274	< 0.0001	< 0.00001	0.00002	0.0002	0.0007	< 0.00001	< 0.0001	0.0002	< 0.00001
51: VIS-CV5-PEG-275	< 0.0001	< 0.00001	0.00004	0.0003	0.0007	< 0.00001	< 0.0001	0.0006	< 0.00001
52: VIS-CV5-PEG-276	< 0.0001	< 0.00001	0.00005	0.0004	0.0005	0.00002	< 0.0001	0.0005	< 0.00001
53-DUP: VIS-CV5-MS-249	< 0.0001	< 0.00001	0.00029	0.0005	< 0.0001	0.00004	< 0.0001	0.0010	0.00001
54-DUP: VIS-CV5-PEG-276	< 0.0001	< 0.00001	0.00006	0.0003	0.0006	0.00002	< 0.0001	0.0005	< 0.00001
55-BLK: CTEU Blank	< 0.0001	< 0.00001	< 0.00001	< 0.0001	< 0.0001	< 0.00001	< 0.0001	< 0.0001	< 0.00001

Method Descriptions

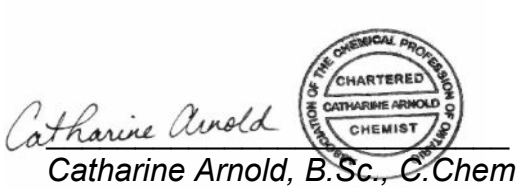
Parameter	Units	SGS Method Code
	g	NA
	mL	NA

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Parameter	Units	SGS Method Code
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

000409370

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0087-APR25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Acidity - QCBatchID: EWL0207-APR25													
Acidity	2	mg/L as Ca	2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0486-APR25													
Acidity	2	mg/L as Ca	2			6	20	102	90	110	NA		
Alkalinity - QCBatchID: EWL0087-APR25													
Alkalinity	2	mg/L as Ca	< 2			3	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0207-APR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	100	80	120	NA		
Alkalinity - QCBatchID: EWL0241-APR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0091-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			14	20	104	90	110	107	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			8	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			8	20	104	90	110	98	75	125
Anions by IC - QCBatchID: DIO0092-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	96	75	125
Chloride	0.2	mg/L	<0.2			7	20	102	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			4	20	101	90	110	98	75	125
Anions by IC - QCBatchID: DIO0192-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	99	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			1	20	101	90	110	100	75	125
Anions by IC - QCBatchID: DIO0193-APR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	96	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			10	20	101	90	110	98	75	125
Anions by IC - QCBatchID: DIO0199-APR25													
Chloride	0.2	mg/L	<0.2			3	20	107	90	110	105	75	125

OnLine LIMS

000409317

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Anions by IC - QCBatchID: DIO0223-APR25														
Chloride	0.2	mg/L	<0.2			5	20	106	90	110	109	75	125	
Conductivity - QCBatchID: EWL0087-APR25														
Conductivity	2	uS/cm	2			0	20	101	90	110	NA			
Conductivity - QCBatchID: EWL0207-APR25														
Conductivity	2	uS/cm	2			0	20	108	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0089-APR25														
Fluoride	0.06	mg/L	<0.06			ND	10	99	90	110	97	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0105-APR25														
Fluoride	0.06	mg/L	<0.06			3	10	103	90	110	103	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0201-APR25														
Fluoride	0.06	mg/L	<0.06			0	10	98	90	110	89	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0224-APR25														
Fluoride	0.06	mg/L	<0.06			ND	10	96	90	110	102	75	125	
Inorganics-General - QCBatchID: EHG0009-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	118	80	120	130	70	130	
Inorganics-General - QCBatchID: EHG0017-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	116	80	120	127	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0044-APR25														
Aluminum	0.001	mg/L	<0.001			2	20	100	90	110	88	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	130	70	130	
Arsenic	0.0002	mg/L	<0.0002			3	20	102	90	110	102	70	130	
Barium	0.00008	mg/L	<0.00008			1	20	101	90	110	97	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	101	90	110	99	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	105	90	110	104	70	130	
Boron	0.002	mg/L	<0.002			ND	20	99	90	110	101	70	130	
Cadmium	0.000003	mg/L	<0.000003			18	20	105	90	110	109	70	130	
Calcium	0.01	mg/L	<0.01			0	20	98	90	110	103	70	130	
Cesium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			ND	20	104	90	110	96	70	130	
Cobalt	0.000004	mg/L	<0.000004			0	20	101	90	110	104	70	130	
Copper	0.001	mg/L	<0.001			ND	20	101	90	110	102	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	107	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			ND	20	102	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			ND	20	101	90	110	104	70	130	
Lithium	0.0001	mg/L	<0.0001			6	20	104	90	110	95	70	130	

OnLine LIMS

000409370

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Magnesium	0.001	mg/L	<0.001			13	20	99	90	110	103	70	130
Manganese	0.00001	mg/L	<0.00001			3	20	102	90	110	104	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	96	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			13	20	102	90	110	124	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			0	20	99	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			0	20	100	90	110	88	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			19	20	104	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	101	90	110	104	70	130
Silicon	0.02	mg/L	<0.02			5	20	94	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	100	90	110	88	70	130
Sodium	0.01	mg/L	<0.01			2	20	99	90	110	93	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	100	90	110	97	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	108	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	100	90	110	99	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	98	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			18	20	95	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	105	90	110	111	70	130
Vanadium	0.00001	mg/L	<0.00001			14	20	103	90	110	105	70	130
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110	108	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0060-APR25													
Cerium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			5	20	100	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130

OnLine LIMS

00040931?0

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LR Report : **CA11024-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lutetium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			4	20	98	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	98	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0071-APR25													
Antimony	0.0009	mg/L	<0.0009			ND	20	101	90	110	91	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0088-APR25													
Aluminum	0.001	mg/L	<0.001			0	20	103	90	110	78	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	104	90	110	84	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	103	90	110	107	70	130
Barium	0.00008	mg/L	<0.00008			2	20	98	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	97	90	110	93	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	101	90	110	93	70	130
Boron	0.002	mg/L	<0.002			0	20	97	90	110	101	70	130
Cadmium	0.000003	mg/L	<0.000003			5	20	102	90	110	103	70	130
Calcium	0.01	mg/L	<0.01			4	20	97	90	110	98	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			2	20	106	90	110	118	70	130
Cobalt	0.000004	mg/L	<0.000004			1	20	100	90	110	106	70	130
Copper	0.001	mg/L	<0.001			0	20	101	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			2	20	99	90	110	98	70	130
Lithium	0.0001	mg/L	<0.0001			5	20	98	90	110	85	70	130
Magnesium	0.001	mg/L	<0.001			1	20	95	90	110	88	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	85	70	130
Molybdenum	0.0004	mg/L	<0.0004			13	20	98	90	110	83	70	130
Nickel	0.0001	mg/L	<0.0001			2	20	102	90	110	100	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130

OnLine LIMS

000409370

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LR Report : **CA11024-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Palladium	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	96	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			0	20	102	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			5	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			13	20	97	90	110	98	70	130
Silicon	0.02	mg/L	<0.02			2	20	101	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	71	70	130
Sodium	0.01	mg/L	<0.01			3	20	92	90	110	88	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	98	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	101	90	110	99	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	96	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			6	20	96	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			ND	20	101	90	110	99	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	103	90	110	81	70	130
Zinc	0.002	mg/L	<0.002			1	20	98	90	110	105	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0122-APR25													
Cerium	0.00001	mg/L	<0.00001			1	20	95	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	93	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			6	20	94	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	102	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	103	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			0	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			3	20	94	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			0	20	94	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			0	20	96	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			6	20	96	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130

OnLine LIMS

00040931?0

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
pH - QCBatchID: EWL0087-APR25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0207-APR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0099-APR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	95	90	110	NV	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0109-APR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	100	90	110	93	75	125

OnLine LIMS

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ABA - Modified Sobek

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11025-FEB25**
Reference: Shaakichiuwaanaan Project

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	28-Feb-25	14:04	28-Feb-25	15:52	10.02	9.68	9.87	9.85	10.30	9.96
Fizz Rate [rating]	26-Feb-25	14:49	28-Feb-25	15:52	2	2	2	2	2	2
Sample weight [g]	26-Feb-25	21:03	28-Feb-25	15:52	1.99	2.00	2.00	2.02	2.00	2.03
HCl_add [mL]	27-Feb-25	15:27	28-Feb-25	15:52	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	26-Feb-25	15:22	28-Feb-25	15:52	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	26-Feb-25	15:29	28-Feb-25	15:52	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	27-Feb-25	15:43	28-Feb-25	15:52	17.75	17.47	18.59	19.07	18.92	18.95
Final pH [no unit]	27-Feb-25	15:28	28-Feb-25	15:52	1.13	1.06	1.04	0.95	1.05	1.11
NP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:52	5.7	6.3	3.5	2.3	2.7	2.6
AP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:53	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	27-Feb-25	20:43	28-Feb-25	15:53	5.39	5.99	3.19	1.99	2.39	2.29
NP/AP [ratio]	27-Feb-25	20:43	28-Feb-25	15:53	18.2	20.2	11.2	7.36	8.64	8.32
S [%]	26-Feb-25	09:21	27-Feb-25	09:27	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	27-Feb-25	09:27	27-Feb-25	09:27	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Sulphide [%]	27-Feb-25	08:48	27-Feb-25	09:27	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
C [%]	26-Feb-25	09:21	27-Feb-25	09:27	0.024	0.020	0.020	0.022	0.013	0.014
CO3 (HCl) as %CO3 [%]	27-Feb-25	11:36	27-Feb-25	11:45	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

OnLine LIMS

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Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	10.24	10.10	10.02	9.76	9.23	9.49	10.02	9.91	10.06
Fizz Rate [rating]	2	2	2	2	2	2	2	2	2
Sample weight [g]	2.03	2.00	2.02	2.02	2.00	2.01	2.04	2.02	2.04
HCl_add [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	18.84	18.83	18.87	19.44	19.00	19.12	19.04	19.15	19.02
Final pH [no unit]	1.14	1.05	1.13	1.10	1.18	1.16	1.12	1.04	1.03
NP [t CaCO3/1000 t]	2.9	2.9	2.8	1.4	2.5	2.2	2.4	2.1	2.4
AP [t CaCO3/1000 t]	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Net NP [t CaCO3/1000 t]	2.59	2.59	2.49	1.09	2.19	1.89	2.09	1.79	2.09
NP/AP [ratio]	9.28	9.28	8.96	4.48	8.00	7.04	7.68	6.72	7.68
S [%]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Acid Leachable SO4-S [%]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Sulphide [%]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
C [%]	0.021	0.017	0.013	0.017	0.018	0.019	0.011	0.019	0.018
CO3 (HCl) as %CO3 [%]	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04

Analysis	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.93	9.85	9.26	9.50	9.48	9.92	9.30	9.54	9.58	9.30
Fizz Rate [rating]	2	2	2	4	3	3	3	4	4	3
Sample weight [g]	2.02	2.00	2.03	2.03	2.03	2.01	2.00	2.02	2.02	2.02
HCl_add [mL]	20.00	20.00	20.00	130.50	32.00	20.00	20.00	140.00	100.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19.00	19.01	18.97	50.20	13.43	14.28	14.14	52.00	29.50	14.77
Final pH [no unit]	1.15	1.14	1.23	1.52	1.65	1.37	1.49	1.51	1.68	1.45
NP [t CaCO3/1000 t]	2.5	2.5	2.5	198	45.7	14.2	14.6	218	174	12.9

OnLine LIMS

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LR Report : **CA11025-FEB25**

Analysis	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285
AP [t CaCO3/1000 t]	0.31	0.31	0.31	10.3	0.41	6.25	0.72	5.62	1.94	0.59
Net NP [t CaCO3/1000 t]	2.19	2.19	2.19	188	45.3	7.95	13.9	212	173	12.3
NP/AP [ratio]	8.00	8.00	8.00	19.2	112	2.27	20.3	38.7	90.1	21.7
S [%]	< 0.005	< 0.005	< 0.005	0.568	0.024	0.309	0.035	0.232	0.088	0.049
Acid Leachable SO4-S [%]	<0.04	<0.04	<0.04	0.24	< 0.04	0.11	< 0.04	0.05	< 0.04	< 0.04
Sulphide [%]	< 0.01	< 0.01	< 0.01	0.33	0.01	0.20	0.02	0.18	0.06	0.02
C [%]	0.041	0.041	0.026	2.56	0.448	0.090	0.039	2.71	2.13	0.055
CO3 (HCl) as %CO3 [%]	< 0.04	< 0.04	< 0.04	12.5	1.96	0.22	< 0.04	13.2	10.4	0.07

Analysis	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.56	9.34	9.68	9.56	9.64	9.50	9.60	9.54	9.38	9.79
Fizz Rate [rating]	3	3	3	3	3	4	3	3	4	3
Sample weight [g]	2.02	2.04	2.02	2.04	2.01	2.02	2.03	2.02	2.03	2.02
HCl_add [mL]	20.00	25.50	20.00	20.00	20.00	48.40	20.00	20.00	40.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14.26	10.47	15.41	14.41	8.02	20.15	7.99	12.37	23.25	14.75
Final pH [no unit]	1.30	1.82	1.33	1.46	1.62	1.63	1.87	1.19	1.53	1.29
NP [t CaCO3/1000 t]	14.2	36.8	11.4	13.7	29.8	69.9	29.6	18.9	41.3	13.0
AP [t CaCO3/1000 t]	0.31	3.28	0.31	0.31	10.0	1.84	0.31	2.34	1.09	0.31
Net NP [t CaCO3/1000 t]	13.9	33.5	11.1	13.4	19.8	68.1	29.3	16.6	40.2	12.7
NP/AP [ratio]	45.4	11.2	36.5	43.8	2.97	37.9	94.7	8.06	37.8	41.6
S [%]	0.041	0.150	0.025	0.026	0.545	0.138	0.064	0.169	0.081	0.040
Acid Leachable SO4-S [%]	0.04	0.04	<0.04	<0.04	0.22	0.08	0.06	0.09	0.05	0.04
Sulphide [%]	< 0.01	0.10	< 0.01	< 0.01	0.32	0.06	< 0.01	0.08	0.04	< 0.01
C [%]	0.141	0.306	0.039	0.048	0.266	0.750	0.363	0.107	0.311	0.072
CO3 (HCl) as %CO3 [%]	0.46	1.35	< 0.04	< 0.04	1.10	3.56	1.59	0.32	1.36	0.20

OnLine LIMS

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Analysis	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	9.77	9.56	9.65	9.46	9.54	9.78	9.98	9.57
Fizz Rate [rating]	3	3	3	4	2	2	2	2
Sample weight [g]	2.00	2.02	2.05	2.02	2.04	2.03	2.01	2.02
HCl_add [mL]	20.00	20.00	20.00	40.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.38	13.30	14.98	20.71	9.08	15.81	9.74	13.31
Final pH [no unit]	1.38	1.09	1.31	1.59	1.81	1.40	1.70	1.65
NP [t CaCO3/1000 t]	16.6	16.6	12.2	47.5	26.8	10.3	25.5	16.6
AP [t CaCO3/1000 t]	0.69	3.16	1.22	3.06	1.38	2.88	8.44	4.56
Net NP [t CaCO3/1000 t]	15.9	13.4	11.0	44.4	25.4	7.42	17.1	12.0
NP/AP [ratio]	24.1	5.26	10.0	15.5	19.5	3.58	3.02	3.64
S [%]	0.018	0.169	0.040	0.093	0.040	0.095	0.332	0.194
Acid Leachable SO4-S [%]	< 0.04	0.07	< 0.04	< 0.04	< 0.04	< 0.04	0.06	0.05
Sulphide [%]	0.02	0.10	0.04	0.10	0.04	0.09	0.27	0.15
C [%]	0.111	0.073	0.041	0.466	0.160	0.051	0.245	0.094
CO3 (HCl) as %CO3 [%]	0.37	0.20	0.14	2.23	0.70	0.21	1.14	0.36

Method Descriptions

Parameter	SGS Method Code	CALA	PALA
		N	N
	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	NA	N	N
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

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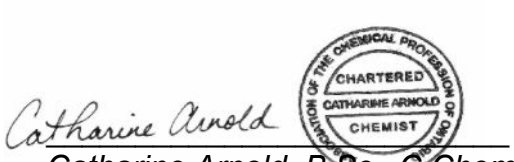
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0084-FEB25														
Carbon (total)	0.005	%	<0.005			17	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				104	70	130	
Carbon/Sulphur - QCBatchID: ECS0086-FEB25														
Carbon (total)	0.005	%	<0.005			6	20				99	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				102	70	130	
Carbon/Sulphur - QCBatchID: ECS0093-FEB25														
Sulphide	0.01	%	< 0.01			7	20	112	80	120				
Carbon/Sulphur - QCBatchID: ECS0095-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			7	20	6	80	120				

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12-March-2025

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Date Rec. : 05 February 2025
LR Report: **CA11026-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Sample Date & Time					NA	NA	NA	NA	NA	NA
Hg [ug/g]	26-Feb-25	09:59	26-Feb-25	10:01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	26-Feb-25	22:35	04-Mar-25	10:46	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2800	3600	2600	2800	3100	3100
As [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	6.5	2.9	25	12	30	23
B [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	40	31	110	290	350	230
Ba [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.4	3.4	1.8	0.55	1.5	1.6
Be [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.88	5.7	10.2	1.7	1.4	0.89
Bi [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	3.2	0.17	7.6	0.62	0.50	62
Ca [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	980	3500	2300	1100	690	1400
Cd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.04	0.19	0.24	0.09	0.04	0.18
Co [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.24	0.52	0.34	0.39	0.37	0.33
Cr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	25	17	76	120	96	91
Cu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.2	4.6	1.1	1.2	0.9	1.0
Fe [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	570	1800	1300	1700	1500	1700
K [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2600	1100	920	920	670	980
Li [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	4	3	12	5	7	6

OnLine LIMS

0004042723

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Mg [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	170	640	310	84	140	280
Mn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	51	200	250	370	240	200
Mo [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.8	0.4	2.5	4.2	3.4	3.5
Na [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	430	1100	940	450	870	740
Ni [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.9	0.7	1.9	2.6	2.8	2.1
P [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	310	1600	870	530	390	590
Pb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.0	1.5	2.6	0.99	2.7	1.2
Sb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.5	1.4	3.5	6.8	10	8.4
Se [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 5	9	< 5	< 5	< 5	< 5
Sr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	4.1	6.1	3.3	4.1	4.1	3.3
Ti [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.1	5.3	4.0	3.6	2.9	4.8
Tl [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.0	1.0	0.91	1.6	1.3	1.2
U [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.42	3.6	5.8	1.5	3.6	1.4
V [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	2.7	7.5	7.9	5.9	4.9	11
Au [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.53	1.13	1.02	0.16	0.067	0.46
Cs [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	56	33	74	810	1600	320
Dy [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.067	0.28	0.66	0.077	0.016	0.37
Er [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.016	0.049	0.074	0.010	0.003	0.048
Eu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.030	0.077	0.018	0.003	0.002	0.011
Ga [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	2	4	2	3	3	3
Gd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.10	0.44	0.89	0.080	0.022	0.42
Ge [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.2	0.7	0.4	< 0.1	< 0.1	0.2
Ho [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.007	0.026	0.045	0.005	0.001	0.026
In [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	< 0.01	0.03	< 0.01	0.01	0.01	0.01
Ir [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.23	0.55	0.47	0.094	0.044	0.20
Lu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.004	0.007	0.006	0.003	0.004	0.002

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330
Nb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.2	1.2	0.9	0.3	0.2	0.4
Nd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.28	1.1	0.51	0.059	0.021	0.23
Os [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.066	0.19	0.13	0.017	0.006	0.061
Pt [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	310	197	158	290	222	222
Re [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	0.088	0.39	0.63	0.053	0.016	0.26
Sc [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.09	0.15	0.13	0.12	0.12	0.15
Ta [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.01	0.08	< 0.01	0.01	0.01	0.01
Tb [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.018	0.081	0.23	0.021	0.005	0.12
Te [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	26-Feb-25	22:35	27-Feb-25	13:13	1.9	7.2	3.8	3.5	4.9	1.2
Tm [µg/g]	26-Feb-25	17:39	27-Feb-25	15:48	0.002	0.006	0.011	0.001	0.001	0.007

Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3300	3000	4300	3000	6600	3700	2400	2100	2900	2500
As [µg/g]	35	21	30	12	3.6	31	15	6.6	64	5.0
B [µg/g]	390	220	310	240	170	270	170	82	200	86
Ba [µg/g]	1.9	3.7	1.8	4.0	6.4	2.3	1.2	0.61	1.4	0.92
Be [µg/g]	0.92	0.91	0.86	1.1	7.7	0.78	1.3	0.95	1.1	1.7
Bi [µg/g]	0.23	2.5	0.52	0.11	3.0	4.0	1.2	19	1.1	8.1

OnLine LIMS

000042723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Ca [µg/g]	1100	890	940	980	2300	1200	2000	590	1100	2000
Cd [µg/g]	0.10	0.08	0.05	0.10	0.16	0.10	0.25	0.05	0.11	0.17
Co [µg/g]	0.36	0.30	0.25	0.35	0.68	0.31	0.28	0.23	0.21	0.25
Cr [µg/g]	89	94	69	98	60	91	87	84	82	79
Cu [µg/g]	1.2	0.9	0.6	0.8	0.7	0.8	0.7	0.5	0.5	0.6
Fe [µg/g]	1500	1600	1100	1800	3600	1400	1400	1200	1400	1300
K [µg/g]	830	770	810	980	2000	1600	540	1400	670	970
Li [µg/g]	10	7	11	5	7	6	10	4	10	6
Mg [µg/g]	300	320	200	650	4100	180	60	60	92	150
Mn [µg/g]	360	210	160	290	240	230	360	62	180	170
Mo [µg/g]	3.4	3.4	2.5	3.7	0.7	3.2	0.6	2.3	0.3	2.1
Na [µg/g]	640	750	1400	420	380	500	960	700	1000	890
Ni [µg/g]	2.6	2.2	1.6	2.6	2.1	2.0	2.0	1.9	2.0	1.8
P [µg/g]	450	310	350	420	890	530	940	230	400	610
Pb [µg/g]	2.7	1.2	1.3	1.1	1.1	1.3	2.8	2.3	2.8	1.9
Sb [µg/g]	44	5.0	12	1.3	1.0	5.1	3.4	3.1	8.3	1.7
Se [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5	6	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	5.3	3.1	5.7	4.3	6.3	3.6	2.6	2.1	1.8	3.8
Ti [µg/g]	2.6	2.6	3.0	2.5	1.4	3.3	2.8	1.5	4.4	2.4
Tl [µg/g]	1.5	1.1	1.7	1.0	1.1	2.3	0.76	1.6	0.86	0.77
U [µg/g]	2.3	3.6	4.4	1.7	2.6	0.58	3.7	0.92	9.9	5.1
V [µg/g]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Zn [µg/g]	7.6	6.0	9.7	6.0	2.6	5.0	5.2	1.6	5.7	5.3
Au [µg/g]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ce [µg/g]	0.13	0.41	0.089	0.24	1.48	0.46	1.10	0.32	0.54	0.69
Cs [µg/g]	530	620	2600	130	100	870	970	250	1100	130
Dy [µg/g]	0.044	0.15	0.036	0.054	0.80	0.13	0.61	0.12	0.26	0.78
Er [µg/g]	0.008	0.022	0.005	0.012	0.14	0.018	0.058	0.011	0.034	0.063
Eu [µg/g]	0.005	0.007	0.001	0.014	0.10	0.007	0.009	0.005	0.006	0.007
Ga [µg/g]	3	3	3	3	7	4	2	1	3	2

OnLine LIMS

000404272 3

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Analysis	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340
Gd [µg/g]	0.048	0.22	0.051	0.066	0.96	0.14	0.93	0.22	0.36	1.03
Ge [µg/g]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	0.1	0.4	0.2	< 0.1	< 0.1	< 0.1	0.3	0.2	0.4	0.3
Ho [µg/g]	0.004	0.012	0.002	0.005	0.068	0.010	0.040	0.007	0.018	0.046
In [µg/g]	0.01	0.01	0.01	0.02	0.02	0.02	< 0.01	< 0.01	0.01	< 0.01
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	0.076	0.18	0.085	0.14	0.55	0.20	0.43	0.13	0.23	0.28
Lu [µg/g]	< 0.001	0.002	0.004	< 0.001	0.012	< 0.001	0.008	0.002	0.002	0.007
Nb [µg/g]	0.2	0.2	0.3	0.1	0.3	0.3	0.4	0.3	0.5	1.4
Nd [µg/g]	0.053	0.19	0.039	0.099	0.98	0.18	0.53	0.16	0.26	0.36
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Pr [µg/g]	0.014	0.051	0.011	0.027	0.21	0.052	0.14	0.044	0.067	0.090
Pt [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	236	156	280	178	177	423	118	235	149	135
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	0.040	0.18	0.034	0.046	0.67	0.098	0.73	0.19	0.29	0.63
Sc [µg/g]	0.13	0.16	0.13	0.15	0.38	0.13	0.12	0.08	0.14	0.12
Ta [µg/g]	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Tb [µg/g]	0.014	0.053	0.012	0.016	0.25	0.040	0.23	0.048	0.089	0.27
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	0.96	1.6	2.0	2.1	7.9	3.6	4.5	1.8	3.2	2.4
Tm [µg/g]	0.002	0.004	0.001	0.002	0.020	0.003	0.008	0.002	0.005	0.008

Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	3300	4200	6300	9900	19000	12000	10000	16000	10000	6700	15000
As [µg/g]	14	21	96	790	2600	560	884	490	110	1100	698
B [µg/g]	140	150	2	2	5	< 1	110	6	< 1	8	260
Ba [µg/g]	4.0	6.5	0.11	0.29	48	2.0	40	75	4.1	8.3	10.0
Be [µg/g]	3.4	2.3	< 0.02	0.32	4.7	0.19	2.7	2.3	0.66	1.8	2.0
Bi [µg/g]	3.6	4.1	0.20	0.18	1.5	0.31	0.41	0.45	0.18	0.51	6.5
Ca [µg/g]	1900	1300	43000	12000	4300	1100	71000	63000	3100	3000	12000
Cd [µg/g]	0.08	0.06	0.04	< 0.02	0.20	< 0.02	< 0.02	0.02	< 0.02	0.04	0.23
Co [µg/g]	0.39	0.35	67	53	50	49	42	44	38	68	35
Cr [µg/g]	74	130	730	650	500	640	750	600	350	830	490
Cu [µg/g]	1.1	7.3	44	8.2	35	0.4	11	22	78	3.7	25
Fe [µg/g]	1600	2100	22000	12000	27000	11000	23000	27000	16000	16000	24000
K [µg/g]	1200	1700	10	29	14000	140	1600	2700	270	2600	700
Li [µg/g]	5	8	5	12	860	18	10	267	172	44	4
Mg [µg/g]	320	600	33000	25000	28000	24000	33000	29000	14000	26000	22000
Mn [µg/g]	200	150	510	160	380	50	430	580	190	170	490
Mo [µg/g]	0.4	0.5	< 0.1	0.1	0.3	0.4	0.2	0.2	< 0.1	< 0.1	0.4
Na [µg/g]	860	520	10	25	150	33	47	110	190	31	180
Ni [µg/g]	2.0	2.7	690	660	530	490	730	630	220	890	400
P [µg/g]	480	300	100	31	240	120	340	280	140	140	650
Pb [µg/g]	2.5	4.6	0.26	1.9	3.9	0.11	1.1	0.42	0.97	0.33	2.7
Sb [µg/g]	1.3	1.8	< 0.8	55	40	117	83	71	18	92	43
Se [µg/g]	< 0.1	< 0.1	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.6
Sn [µg/g]	< 5	5	< 5	< 5	29	< 5	5	< 5	< 5	< 5	< 5
Sr [µg/g]	5.7	3.9	38	13	1.6	0.92	31	19	3.1	1.3	4.7
Ti [µg/g]	10	2.8	39	24	753	46	233	330	260	49	333
Tl [µg/g]	1.4	1.1	0.04	0.04	39	0.13	3.1	4.8	0.40	2.9	0.66
U [µg/g]	2.0	0.86	0.026	0.021	0.53	0.11	0.23	0.34	0.15	0.026	3.3
V [µg/g]	1	< 1	17	23	49	25	22	36	22	21	34

OnLine LIMS

000404723

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Phone: 705-652-2000 FAX: 705-652-6365

Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Zn [µg/g]	6.5	10	10	13	46	14	13	18	13	15	39
Au [µg/g]	< 0.02	< 0.02	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02
Ce [µg/g]	0.43	0.31	2.46	---	---	---	12.4	---	---	---	5.99
Cs [µg/g]	600	75	3	---	---	---	360	---	---	---	150
Dy [µg/g]	0.14	0.13	0.19	---	---	---	0.95	---	---	---	0.38
Er [µg/g]	0.021	0.018	0.11	---	---	---	0.49	---	---	---	0.20
Eu [µg/g]	0.010	0.018	0.099	---	---	---	0.22	---	---	---	0.11
Ga [µg/g]	3	5	1	---	---	---	4	---	---	---	7
Gd [µg/g]	0.20	0.16	0.25	---	---	---	1.15	---	---	---	0.50
Ge [µg/g]	< 0.3	< 0.3	0.7	---	---	---	1.0	---	---	---	0.7
Hf [µg/g]	0.4	0.1	< 0.1	---	---	---	< 0.1	---	---	---	0.1
Ho [µg/g]	0.012	0.010	0.039	---	---	---	0.18	---	---	---	0.070
In [µg/g]	0.02	0.02	< 0.01	---	---	---	0.03	---	---	---	0.03
Ir [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
La [µg/g]	0.22	0.14	1.41	---	---	---	6.76	---	---	---	2.93
Lu [µg/g]	< 0.001	< 0.001	0.025	---	---	---	0.061	---	---	---	0.033
Nb [µg/g]	0.4	0.3	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Nd [µg/g]	0.21	0.16	1.2	---	---	---	5.2	---	---	---	2.4
Os [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Pd [µg/g]	< 0.2	< 0.2	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2
Pr [µg/g]	0.053	0.037	0.27	---	---	---	1.31	---	---	---	0.64
Pt [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Rh [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Rb [µg/g]	229	205	0.44	---	---	---	299	---	---	---	57.0
Re [µg/g]	< 0.05	< 0.05	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Sm [µg/g]	0.16	0.11	0.23	---	---	---	1.11	---	---	---	0.47
Sc [µg/g]	0.23	0.15	2	---	---	---	5	---	---	---	4
Ta [µg/g]	0.02	0.01	< 0.01	---	---	---	< 0.01	---	---	---	0.02
Tb [µg/g]	0.050	0.038	0.037	---	---	---	0.19	---	---	---	0.080
Te [µg/g]	< 0.1	< 0.1	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1

OnLine LIMS

0004042723

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Analysis	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287
Th [µg/g]	4.7	0.84	0.11	---	---	---	1.1	---	---	---	1.5
Tm [µg/g]	0.004	0.003	0.016	---	---	---	0.074	---	---	---	0.033

Analysis	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	24000	21000	9200	14000	9600	11000	12000	7800	7500	7100	19000
As [µg/g]	490	390	520	355	820	150	40	16	39	850	930
B [µg/g]	3	2	< 1	67	< 1	< 1	< 1	130	3	< 1	3
Ba [µg/g]	31	15	1.4	11	1.3	4.8	2.5	6.8	4.8	0.25	57
Be [µg/g]	2.0	0.49	0.24	0.20	0.34	0.38	0.38	0.23	0.81	0.42	4.9
Bi [µg/g]	0.25	0.14	0.91	0.13	0.26	0.28	0.59	< 0.09	0.28	0.26	1.6
Ca [µg/g]	2100	2100	8300	18000	9900	2700	12000	9300	10000	1800	3100
Cd [µg/g]	< 0.02	< 0.02	0.02	0.06	< 0.02	0.10	< 0.02	0.03	0.03	0.05	0.03
Co [µg/g]	47	47	69	36	63	37	23	10	10	60	45
Cr [µg/g]	820	830	620	690	680	690	390	120	120	500	680
Cu [µg/g]	3.6	0.6	102	38	7.1	60	59	78	97	19	54
Fe [µg/g]	30000	24000	18000	14000	12000	14000	18000	8200	8500	9900	23000
K [µg/g]	12000	7000	110	1800	470	330	100	430	370	19	9500
Li [µg/g]	471	402	12	< 2	20	18	157	3	150	14	584
Mg [µg/g]	42000	34000	22000	28000	23000	25000	16000	5800	6700	18000	30000
Mn [µg/g]	220	160	160	300	170	110	220	150	230	69	280
Mo [µg/g]	0.8	0.3	0.1	< 0.1	< 0.1	0.2	0.1	< 0.1	< 0.1	< 0.1	0.6
Na [µg/g]	46	37	18	58	46	24	210	470	330	22	210
Ni [µg/g]	410	450	750	480	620	550	210	54	47	590	390
P [µg/g]	480	260	45	110	72	28	280	160	180	34	210
Pb [µg/g]	0.28	0.24	0.28	1.0	0.22	0.87	0.16	0.20	0.15	0.23	0.72

OnLine LIMS

000042723

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Analysis	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298
Sb [µg/g]	20	26	54	16	21	28	3.4	1.2	2.1	18	6.8
Se [µg/g]	< 0.1	< 0.1	0.5	0.2	< 0.1	0.2	0.2	< 0.1	< 0.1	0.3	0.2
Sn [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	6
Sr [µg/g]	4.2	3.3	4.3	26	16	2.7	11	8.0	8.8	1.2	3.0
Ti [µg/g]	660	450	28	91	31	34	240	547	500	77	770
Tl [µg/g]	18	9.9	0.32	1.6	0.49	0.48	0.15	0.19	0.13	0.04	11
U [µg/g]	0.21	0.23	0.056	0.14	0.13	0.032	0.18	0.032	0.040	0.023	0.29
V [µg/g]	43	37	24	26	26	28	26	19	20	18	39
Zn [µg/g]	36	30	15	22	12	18	15	8.7	11	26	33
Au [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---
Ce [µg/g]	---	---	---	4.25	---	---	---	1.81	---	---	---
Cs [µg/g]	---	---	---	250	---	---	---	16	---	---	---
Dy [µg/g]	---	---	---	0.15	---	---	---	0.32	---	---	---
Er [µg/g]	---	---	---	0.081	---	---	---	0.21	---	---	---
Eu [µg/g]	---	---	---	0.055	---	---	---	0.080	---	---	---
Ga [µg/g]	---	---	---	3	---	---	---	2	---	---	---
Gd [µg/g]	---	---	---	0.26	---	---	---	0.31	---	---	---
Ge [µg/g]	---	---	---	0.3	---	---	---	< 0.3	---	---	---
Hf [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Ho [µg/g]	---	---	---	0.029	---	---	---	0.068	---	---	---
In [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Ir [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
La [µg/g]	---	---	---	2.32	---	---	---	0.92	---	---	---
Lu [µg/g]	---	---	---	0.019	---	---	---	0.033	---	---	---
Nb [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Nd [µg/g]	---	---	---	1.7	---	---	---	0.93	---	---	---
Os [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Pd [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---
Pr [µg/g]	---	---	---	0.44	---	---	---	0.21	---	---	---
Pt [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Rh [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---

OnLine LIMS

000042723

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Analysis	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298
Rb [µg/g]	---	---	---	160	---	---	---	25.9	---	---	---
Re [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---
Ru [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Sm [µg/g]	---	---	---	0.28	---	---	---	0.25	---	---	---
Sc [µg/g]	---	---	---	3	---	---	---	2	---	---	---
Ta [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---
Tb [µg/g]	---	---	---	0.034	---	---	---	0.056	---	---	---
Te [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---
Th [µg/g]	---	---	---	0.50	---	---	---	0.12	---	---	---
Tm [µg/g]	---	---	---	0.015	---	---	---	0.030	---	---	---

Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Sample Date & Time	NA	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	16000	12000	7400	6000	9700
As [µg/g]	65	200	130	170	60
B [µg/g]	310	2	3	8	3
Ba [µg/g]	3.9	4.1	12	35	3.4
Be [µg/g]	1.0	0.34	0.34	0.09	2.2
Bi [µg/g]	0.38	0.12	0.12	0.45	0.17
Ca [µg/g]	16000	8600	5900	11000	6100
Cd [µg/g]	0.20	0.15	0.06	0.02	0.05
Co [µg/g]	15	36	23	31	16
Cr [µg/g]	210	400	180	110	81
Cu [µg/g]	52	40	130	179	66
Fe [µg/g]	18000	14000	11000	11000	19000
K [µg/g]	230	240	500	1700	600

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000404272

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Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Li [µg/g]	3	135	142	123	219
Mg [µg/g]	19000	14000	7900	5900	11000
Mn [µg/g]	630	180	160	130	240
Mo [µg/g]	0.1	< 0.1	8.3	0.4	0.4
Na [µg/g]	200	160	330	390	510
Ni [µg/g]	81	180	130	200	120
P [µg/g]	240	140	150	120	770
Pb [µg/g]	1.7	2.5	1.2	0.43	7.0
Sb [µg/g]	6.5	5.8	14	1.8	11
Se [µg/g]	0.1	0.2	0.2	0.7	0.2
Sn [µg/g]	8	< 5	< 5	< 5	< 5
Sr [µg/g]	7.5	4.7	4.7	6.4	6.7
Ti [µg/g]	365	270	430	320	390
Tl [µg/g]	0.15	0.13	0.25	0.28	0.62
U [µg/g]	0.23	0.15	0.28	0.13	1.0
V [µg/g]	46	23	19	12	35
Zn [µg/g]	27	53	18	15	22
Au [µg/g]	< 0.02	---	---	---	---
Ce [µg/g]	2.63	---	---	---	---
Cs [µg/g]	16	---	---	---	---
Dy [µg/g]	0.69	---	---	---	---
Er [µg/g]	0.41	---	---	---	---
Eu [µg/g]	0.12	---	---	---	---
Ga [µg/g]	25	---	---	---	---
Gd [µg/g]	0.62	---	---	---	---
Ge [µg/g]	0.5	---	---	---	---
Hf [µg/g]	< 0.1	---	---	---	---
Ho [µg/g]	0.15	---	---	---	---
In [µg/g]	0.05	---	---	---	---
Ir [µg/g]	< 0.01	---	---	---	---
La [µg/g]	1.31	---	---	---	---

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LR Report : **CA11026-FEB25**

Analysis	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303
Lu [µg/g]	0.067	---	---	---	---
Nb [µg/g]	< 0.1	---	---	---	---
Nd [µg/g]	1.4	---	---	---	---
Os [µg/g]	< 0.1	---	---	---	---
Pd [µg/g]	< 0.2	---	---	---	---
Pr [µg/g]	0.33	---	---	---	---
Pt [µg/g]	< 0.1	---	---	---	---
Rh [µg/g]	< 0.01	---	---	---	---
Rb [µg/g]	11.2	---	---	---	---
Re [µg/g]	< 0.05	---	---	---	---
Ru [µg/g]	< 0.01	---	---	---	---
Sm [µg/g]	0.46	---	---	---	---
Sc [µg/g]	7	---	---	---	---
Ta [µg/g]	< 0.01	---	---	---	---
Tb [µg/g]	0.12	---	---	---	---
Te [µg/g]	< 0.1	---	---	---	---
Th [µg/g]	0.22	---	---	---	---
Tm [µg/g]	0.067	---	---	---	---

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

OnLine LIMS

0004042723

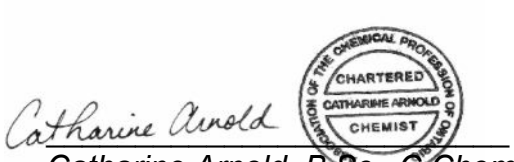
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Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0033-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	91	80	120	106	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0203-FEB25													
Cerium	0.001	µg/g	<0.01			7	20	101	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			3	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.01			12	20	102	70	130	NV	70	130
Erbium	0.001	µg/g	<0.01			5	20	101	70	130	NV	70	130
Europium	0.001	µg/g	<0.01			9	20	99	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.01			3	20	100	70	130	NV	70	130
Germanium	0.3	µg/g	<0.0001			ND	20	104	70	130	NV	70	130
Gold	0.02	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.0001			5	20	105	70	130	NV	70	130
Holmium	0.001	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Iridium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.01			10	20	98	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Neodymium	0.006	µg/g	<0.01			13	20	102	70	130	NV	70	130
Niobium	0.1	µg/g	<0.01			6	20	106	70	130	NV	70	130
Osmium	0.1	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Palladium	0.2	µg/g	<0.0001			ND	20	93	70	130	NV	70	130
Platinum	0.1	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.01			10	20	104	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.0001			ND	20	103	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Samarium	0.001	µg/g	<0.01			14	20	102	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.0001			1	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0238-FEB25													
Gallium	0.03	µg/g	< 0.03			7	20	93	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Metals, ICP-MS - QCBatchID: EMS0001-MAR25													
Aluminum	3	µg/g	<3			1	20	95	70	130	91	70	130
Antimony	0.8	µg/g	<0.8			2	20	99	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			0	20	91	70	130	99	70	130

OnLine LIMS

000404723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Barium	0.01	µg/g	<0.01			13	20	94	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			4	20	92	70	130	110	70	130	
Bismuth	0.09	µg/g	<0.09			2	20	96	70	130	NV	70	130	
Boron	1	µg/g	<1			2	20	100	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			ND	20	96	70	130	92	70	130	
Calcium	3	µg/g	<3			2	20	103	70	130	99	70	130	
Chromium	0.5	µg/g	<0.5			1	20	94	70	130	97	70	130	
Cobalt	0.01	µg/g	<0.01			1	20	93	70	130	89	70	130	
Copper	0.1	µg/g	<0.1			ND	20	94	70	130	85	70	130	
Iron	3	µg/g	<3			0	20	105	70	130	118	70	130	
Lead	0.05	µg/g	<0.05			5	20	91	70	130	99	70	130	
Lithium	2	µg/g	<2			16	20	98	70	130	112	70	130	
Magnesium	3	µg/g	<1			2	20	105	70	130	106	70	130	
Manganese	0.1	µg/g	<0.1			2	20	94	70	130	93	70	130	
Molybdenum	0.1	µg/g	<0.1			10	20	91	70	130	113	70	130	
Nickel	0.1	µg/g	<0.1			0	20	97	70	130	95	70	130	
Phosphorus	3	µg/g	<3			17	20	100	70	130	NV	70	130	
Potassium	3	µg/g	<3			6	20	101	70	130	88	70	130	
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	100	70	130	96	70	130	
Sodium	3	µg/g	<3			2	20	105	70	130	97	70	130	
Strontium	0.02	µg/g	<0.02			1	20	92	70	130	89	70	130	
Thallium	0.02	µg/g	<0.02			9	20	NV	70	130	131	70	130	
Tin	5	µg/g	<5			ND	20	102	70	130	113	70	130	
Titanium	0.1	µg/g	<0.1			3	20	97	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			9	20	92	70	130	90	70	130	
Vanadium	1	µg/g	<1			0	20	92	70	130	98	70	130	
Zinc	0.7	µg/g	<0.7			1	20	97	70	130	96	70	130	
Metals, ICP-MS - QCBatchID: EMS0203-FEB25														
Aluminum	3	µg/g	<3			3	20	99	70	130	99	70	130	
Antimony	0.8	µg/g	<0.8			2	20	103	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			6	20	94	70	130	110	70	130	
Barium	0.01	µg/g	<0.01			11	20	95	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			3	20	92	70	130	100	70	130	
Bismuth	0.09	µg/g	<0.09			5	20	92	70	130	NV	70	130	
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			2	20	95	70	130	114	70	130	
Calcium	3	µg/g	<3			2	20	105	70	130	100	70	130	
Chromium	0.5	µg/g	<0.5			4	20	97	70	130	102	70	130	

OnLine LIMS

0004042723

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11026-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Cobalt	0.01	µg/g	<0.01			5	20	92	70	130	85	70	130
Copper	0.1	µg/g	<0.1			4	20	95	70	130	81	70	130
Iron	3	µg/g	<3			2	20	106	70	130	114	70	130
Lead	0.05	µg/g	<0.05			10	20	92	70	130	90	70	130
Lithium	2	µg/g	<2			1	20	97	70	130	73	70	130
Magnesium	3	µg/g	<1			5	20	107	70	130	102	70	130
Manganese	0.1	µg/g	<0.1			5	20	97	70	130	95	70	130
Molybdenum	0.1	µg/g	<0.1			3	20	104	70	130	110	70	130
Nickel	0.1	µg/g	<0.1			12	20	97	70	130	90	70	130
Phosphorus	3	µg/g	<3			6	20	106	70	130	NV	70	130
Potassium	3	µg/g	<3			6	20	104	70	130	92	70	130
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	93	70	130	83	70	130
Sodium	3	µg/g	<3			9	20	102	70	130	103	70	130
Strontium	0.02	µg/g	<0.02			4	20	97	70	130	93	70	130
Thallium	0.02	µg/g	<0.02			3	20	96	70	130	111	70	130
Thorium	0.01	µg/g	<0.5			2	20	96	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	101	70	130
Titanium	0.1	µg/g	<0.1			18	20	104	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			4	20	94	70	130	81	70	130
Vanadium	1	µg/g	<1			ND	20	97	70	130	105	70	130
Zinc	0.7	µg/g	<0.7			4	20	98	70	130	93	70	130

OnLine LIMS

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000042723

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11027-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	22-Feb-25	14:50	24-Feb-25	10:17	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	22-Feb-25	12:46	24-Feb-25	10:17	1	1	1	1	1	1	1	1
Ext Volume [mL]	22-Feb-25	12:46	24-Feb-25	10:17	400	400	400	400	400	400	400	400
pH [No unit]	24-Feb-25	07:05	26-Feb-25	12:28	8.43	8.22	7.75	6.96	7.09	7.20	7.23	7.19
Conductivity [uS/cm]	24-Feb-25	07:05	27-Feb-25	12:42	51	33	38	24	16	19	23	22
Alkalinity [mg/L as CaCO3]	24-Feb-25	07:05	25-Feb-25	14:14	21	11	14	7	4	5	6	6
Acidity [mg/L as CaCO3]	24-Feb-25	07:05	25-Feb-25	14:14	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	24-Feb-25	08:38	26-Feb-25	09:32	0.11	0.14	0.15	0.18	0.22	0.19	0.18	0.13
Br [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	24-Feb-25	21:29	25-Feb-25	14:14	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	25-Feb-25	11:33	26-Feb-25	07:39	0.09	0.14	0.13	0.17	0.18	0.09	0.11	0.05
Hg [mg/L]	25-Feb-25	15:02	26-Feb-25	12:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.846	0.638	0.671	0.137	0.091	0.098	0.195	0.120
As [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0270	0.0062	0.0524	0.0363	0.118	0.0944	0.153	0.0534
Ba [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00137	0.00121	0.00109	0.00018	0.00025	0.00024	0.00030	0.00024
Be [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000276	0.001045	0.00273	0.000047	0.000063	0.000028	0.000027	0.000029
B [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.041	0.054	0.059	0.004	0.011	0.009	0.012	0.009

OnLine LIMS

0004033536

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : CA11027-FEB25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Bi [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00154	0.00002	0.00044	< 0.00001	< 0.00001	0.00052	< 0.00001	0.00001
Ca [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.87	0.65	2.20	2.21	0.38	0.90	1.79	1.83
Cd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000004	< 0.000003	0.000003	0.000003	0.000003	0.000006	< 0.000003	0.000003
Co [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000053	0.000070	0.000040	0.000032	0.000016	0.000011	0.000021	0.000013
Cr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00017	0.00014	0.00037	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.019	0.098	0.038	< 0.007	< 0.007	< 0.007	< 0.007	0.008
K [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.63	1.04	0.648	0.562	0.463	0.850	0.495	0.641
Li [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0269	0.0040	0.0855	0.304	0.475	0.187	0.420	0.237
Mg [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.154	0.121	0.198	0.039	0.045	0.066	0.059	0.080
Mn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00501	0.00819	0.0147	0.145	0.0411	0.0198	0.0644	0.0226
Mo [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.0004	< 0.0004	0.0007	0.0012	0.0006	0.0008	0.0007	0.0007
Na [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	6.36	5.82	5.24	0.72	1.06	1.43	0.85	1.11
Ni [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.0001	< 0.0001	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
P [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.088	0.133	0.128	0.176	0.156	0.085	0.113	0.048
Pb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00038	0.00015	0.00019	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0029	0.0010	0.0104	0.0139	0.0749	0.0299	0.282	0.0133
Se [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	2.98	1.86	2.27	0.85	0.96	1.02	1.02	0.89
Sn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00055	0.00194	0.00062	0.00011	0.00007	0.00008	0.00018	0.00009
Sr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00490	0.00176	0.00517	0.00375	0.00153	0.00370	0.00497	0.00615
Ti [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.0003	0.0023	0.0007	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Tl [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000460	0.000218	0.000140	0.000166	0.000116	0.000118	0.000106	0.000110
U [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.000231	0.000530	0.00117	0.000256	0.000636	0.000127	0.000056	0.000206
V [mg/L]	25-Feb-25	16:25	27-Feb-25	08:11	0.00023	0.00055	0.00015	0.00007	0.00008	0.00012	0.00005	0.00007
Zn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.00002	0.00008	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00008	0.00011	0.00007	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0167	0.0079	0.0116	0.0365	0.0661	0.0291	0.0241	0.0372
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.0009	0.0012	0.0011	0.0008	0.0006	0.0008	0.0010	0.0008
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00001	0.00003	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0001	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	0.0001	< 0.0001
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Ir (tot) [mg/L]	26-Feb-25	15:46	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00004	0.00005	0.00004	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0003	0.0011	0.0008	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	0.00004	0.00010	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.155	0.102	0.0406	0.0956	0.0636	0.0660	0.0479	0.0428
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0006	0.0022	0.0012	0.0002	< 0.0001	< 0.0001	0.0002	< 0.0001
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:07	0.0002	0.0004	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:07	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	19	20	20	21	20	20	20	21
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	7.31	7.34	7.90	7.15	6.95	6.98	7.24	7.64	7.63	7.91	7.90
Conductivity [uS/cm]	20	27	47	20	16	24	18	38	30	45	51
Alkalinity [mg/L as CaCO3]	5	7	20	5	3	7	5	14	10	17	28
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.26	0.09	0.16	0.22	0.12	0.17	0.12	< 0.06	0.09	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.10	0.07	0.06	0.10	0.17	0.12	0.06	0.04	0.04	0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.119	0.254	1.21	0.090	0.098	0.132	0.094	0.556	0.476	0.632	0.026
As [mg/L]	0.139	0.0188	0.0105	0.0683	0.0859	0.0420	0.0753	0.0132	0.0076	0.0121	0.0369
Ba [mg/L]	0.00017	0.00028	0.00296	0.00034	0.00029	0.00031	0.00023	0.00034	0.00026	0.00037	0.00010
Be [mg/L]	0.000031	0.000027	0.001803	0.000011	0.000067	0.000040	0.000038	0.000071	0.000076	0.000044	< 0.000007
B [mg/L]	0.018	0.007	0.060	0.006	0.015	0.006	0.010	0.005	0.006	0.006	0.004
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	0.00001	0.00002	0.00052	< 0.00001	0.00046	0.00015	0.00005	< 0.00001
Ca [mg/L]	0.80	2.28	1.62	1.58	0.95	1.86	1.49	4.52	2.43	5.91	6.31
Cd [mg/L]	< 0.000003	0.000003	< 0.000003	< 0.000003	0.000007	0.000009	< 0.000003	< 0.000003	0.000004	< 0.000003	0.000003
Co [mg/L]	0.000005	0.000014	0.000055	0.000019	0.000123	0.000013	0.000014	0.000007	0.000007	< 0.000004	0.000013
Cr [mg/L]	< 0.00008	< 0.00008	0.00010	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00096
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.007	0.122	< 0.007	0.007	< 0.007	< 0.007	< 0.007	0.008	< 0.007	< 0.007
K [mg/L]	0.599	0.724	1.70	1.35	0.371	1.77	0.406	0.705	1.33	1.09	0.037
Li [mg/L]	0.330	0.334	0.0867	0.229	0.215	0.110	0.169	0.113	0.229	0.0967	0.0005
Mg [mg/L]	0.035	0.217	0.411	0.044	0.047	0.071	0.041	0.094	0.131	0.212	3.57
Mn [mg/L]	0.0135	0.0552	0.00695	0.0528	0.0932	0.0358	0.0405	0.0315	0.0292	0.00430	0.00033
Mo [mg/L]	0.0005	0.0008	< 0.0004	< 0.0004	0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	1.59	1.08	7.23	0.60	1.19	0.63	1.09	1.31	1.31	0.84	0.10
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0002	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002
P [mg/L]	0.087	0.088	0.063	0.104	0.166	0.125	0.063	0.068	0.056	0.048	0.005
Pb [mg/L]	< 0.00009	< 0.00009	0.00020	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.105	0.0055	0.0033	0.0274	0.0156	0.0082	0.0312	0.0061	0.0022	0.0023	< 0.0009
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.09	1.04	3.28	0.83	0.82	0.86	0.75	1.55	1.31	1.58	2.35
Sn [mg/L]	0.00010	0.00013	0.00133	0.00013	0.00012	0.00015	0.00012	0.00013	0.00014	0.00015	< 0.00006
Sr [mg/L]	0.00351	0.00890	0.00738	0.00385	0.00296	0.00215	0.00215	0.00741	0.00298	0.0150	0.00779
Ti [mg/L]	< 0.0001	< 0.0001	0.0006	0.0001	0.0001	0.0002	0.0002	< 0.0001	0.0002	< 0.0001	< 0.0001
Tl [mg/L]	0.000153	0.000070	0.000192	0.000332	0.000095	0.000403	0.000096	0.000085	0.000197	0.000078	< 0.000005
U [mg/L]	0.000209	0.000101	0.000423	0.000024	0.00169	0.000065	0.00151	0.00374	0.000059	0.000181	0.000005
V [mg/L]	0.00005	0.00008	0.00022	0.00007	0.00008	0.00011	0.00007	0.00013	0.00024	0.00006	0.00100
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	< 0.00001	< 0.00001	0.00009	0.00002	0.00002	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Cs [mg/L]	0.0698	0.0137	0.0228	0.0577	0.0551	0.0316	0.0447	0.0167	0.0238	0.0064	0.0066

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LR Report : **CA11027-FEB25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Dy [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0008	0.0011	0.0013	0.0008	0.0005	0.0009	0.0006	0.0012	0.0017	0.0016	< 0.0001
Gd (tot) [mg/L]	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ge [mg/L]	0.0002	< 0.0001	< 0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	< 0.0001	< 0.0001	0.0006	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0004	0.0001	0.0001	< 0.0001
Nd [mg/L]	< 0.00001	< 0.00001	0.00007	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Os (tot) [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0817	0.0310	0.0405	0.191	0.0449	0.187	0.0520	0.0540	0.126	0.0376	0.0006
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sc [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ta [mg/L]	0.0002	0.0001	0.0010	0.0001	0.0002	0.0001	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	21	20	20	20	20	20	20	20	21	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
pH [No unit]	7.74	7.75	7.87	8.30	8.04	7.79	7.77	7.74	7.69	8.16	7.92
Conductivity [uS/cm]	52	56	41	50	51	50	50	63	49	50	45
Alkalinity [mg/L as CaCO3]	23	20	16	22	23	17	22	22	22	21	23
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	0.74	< 0.06	0.15	0.47	< 0.06	0.12	0.11	0.10	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.03	0.21	0.14	0.12	0.06	0.06	0.88	0.19	0.23	0.16	0.04
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.038	0.243	0.071	0.057	0.211	0.199	0.014	0.179	0.107	0.096	0.060
As [mg/L]	0.136	0.645	0.439	0.384	0.194	0.206	2.75	0.602	0.644	0.453	0.132
Ba [mg/L]	0.00016	0.00092	0.00048	0.00128	0.00133	0.00061	0.00076	0.00050	0.00050	0.00034	0.00035
Be [mg/L]	< 0.000007	0.000011	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007	0.000013	0.000017	< 0.000007	< 0.000007
B [mg/L]	0.005	0.007	< 0.002	0.014	0.009	< 0.002	0.007	0.005	0.009	0.008	< 0.002
Bi [mg/L]	0.00002	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	6.45	6.36	6.03	6.97	6.71	6.81	6.01	8.66	5.14	5.46	6.60
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000013	0.000022	0.000019	0.000010	0.000007	0.000107	0.000074	0.000024	0.000132	0.000023	0.000006
Cr [mg/L]	0.00151	0.00105	0.00122	0.00158	0.00074	0.00086	0.00193	0.00035	0.00267	0.00165	0.00050
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	0.023	0.007	< 0.007	< 0.007	0.032	0.039	0.008	0.074	0.011	< 0.007
K [mg/L]	0.042	3.38	0.111	0.697	1.50	0.392	0.616	0.641	3.27	2.06	0.086
Li [mg/L]	0.0005	0.127	0.0005	0.0102	0.0426	0.0199	0.0035	0.0250	0.0596	0.0380	0.0006
Mg [mg/L]	1.92	0.923	1.37	1.56	1.38	1.49	2.39	1.38	1.42	1.67	1.50
Mn [mg/L]	0.00063	0.00125	0.00213	0.00103	0.00053	0.00092	0.00149	0.00073	0.00228	0.00156	0.00189
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	0.0011	0.0004	< 0.0004	< 0.0004	0.0006	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	0.16	0.24	0.12	0.19	0.34	0.30	0.20	0.92	0.49	0.27	0.16
Ni [mg/L]	0.0002	0.0004	0.0004	0.0003	0.0002	0.0008	0.0049	0.0007	0.0017	0.0004	0.0002
P [mg/L]	0.006	0.005	0.005	< 0.003	< 0.003	0.003	0.003	0.006	0.006	0.007	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0205	0.0900	0.238	0.106	0.0955	0.134	0.235	0.0873	0.112	0.0788	0.0664
Se [mg/L]	< 0.00004	0.00013	< 0.00004	< 0.00004	< 0.00004	0.00028	0.00005	0.00121	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.99	1.65	1.54	2.02	1.83	1.82	3.15	1.90	2.46	2.42	1.94
Sn [mg/L]	< 0.00006	0.00010	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00007	0.00007	0.00006	< 0.00006	< 0.00006

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sr [mg/L]	0.0132	0.00509	0.00449	0.0150	0.0121	0.0113	0.00440	0.0150	0.0247	0.0201	0.00739
Ti [mg/L]	< 0.0001	0.0007	< 0.0001	< 0.0001	< 0.0001	0.0008	0.0001	0.0002	0.0016	0.0002	< 0.0001
Tl [mg/L]	0.000006	0.00114	0.000014	0.000150	0.000213	0.000208	0.000064	0.000080	0.000796	0.000550	0.000020
U [mg/L]	0.000011	0.000013	0.000018	0.000078	0.000004	0.000021	0.000007	0.000081	0.000165	0.000007	0.000050
V [mg/L]	0.00175	0.00282	0.00277	0.00298	0.00419	0.00397	0.00333	0.00622	0.00501	0.00378	0.00208
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ce [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Cs [mg/L]	---	---	---	0.0485	---	---	---	0.0813	---	---	---
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	---	0.0003	---	---	---	0.0004	---	---	---
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Os (tot) [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	---	0.0840	---	---	---	0.0272	---	---	---
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	20	20	21	20	20	20	20	19	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.37	7.87	7.89	7.87	8.16	8.04	7.80	7.76	7.80	7.86	7.94
Conductivity [uS/cm]	71	49	45	51	46	51	50	46	52	56	51
Alkalinity [mg/L as CaCO3]	29	21	21	21	22	22	20	16	21	22	22
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.12	0.08	0.21	< 0.06	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.51	0.36	< 0.03	< 0.03	< 0.03	0.04	0.29	0.38	0.04	0.07	0.05
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.037	0.039	0.050	0.250	0.457	0.370	0.028	0.215	0.306	0.243	0.379
As [mg/L]	1.52	1.05	0.0401	0.0494	0.0257	0.121	0.812	1.04	0.125	0.213	0.145
Ba [mg/L]	0.00087	0.00026	0.00026	0.00041	0.00033	0.00034	0.00051	0.00072	0.00036	0.00037	0.00043
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000018	0.000008	< 0.000007	< 0.000007
B [mg/L]	0.030	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	0.009	< 0.002	< 0.002	0.007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.93	6.86	6.10	7.10	6.63	7.44	5.76	3.98	6.97	7.44	6.41
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000016	0.000017	0.000004	0.000007	0.000054	0.000089	0.000019	0.000072	0.000012	0.000026	0.000041
Cr [mg/L]	0.00044	0.00072	0.00050	0.00036	0.00094	0.00096	0.00299	0.00249	0.00021	0.00058	0.00068
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	0.064	0.046	0.013	0.040	< 0.007	0.013	0.040
K [mg/L]	0.808	0.220	0.102	0.179	0.440	0.452	0.116	4.02	0.549	0.425	0.477
Li [mg/L]	0.0095	0.0007	0.0004	0.0125	0.0231	0.0198	0.0006	0.138	0.0270	0.0117	0.0170
Mg [mg/L]	1.54	1.62	1.53	1.34	1.18	1.28	2.22	1.06	0.959	1.47	1.18
Mn [mg/L]	0.00019	0.00047	0.00019	0.00125	0.00338	0.00154	0.00059	0.00083	0.00048	0.00039	0.00106
Mo [mg/L]	0.0004	< 0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	0.0005	< 0.0004	0.0012	< 0.0004	< 0.0004
Na [mg/L]	4.57	0.12	0.14	0.26	0.54	0.51	0.23	0.28	0.58	0.38	0.47
Ni [mg/L]	0.0010	0.0009	< 0.0001	0.0001	0.0003	0.0004	0.0006	0.0009	0.0002	0.0003	0.0004
P [mg/L]	0.004	0.003	< 0.003	< 0.003	0.004	0.003	0.003	0.006	< 0.003	0.003	0.004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sb [mg/L]	0.166	0.0636	0.0070	0.0084	0.0051	0.0083	0.0458	0.0207	0.0234	0.0295	0.0446
Se [mg/L]	< 0.00004	< 0.00004	< 0.00004	0.00024	0.00006	0.00010	0.00008	0.00009	0.00012	0.00019	0.00012
Si [mg/L]	2.31	2.18	2.18	1.76	2.43	2.79	4.18	2.65	1.92	2.74	2.50
Sn [mg/L]	0.00008	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00016	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0133	0.00913	0.00939	0.0114	0.0115	0.0150	0.0121	0.00879	0.0163	0.00924	0.00855
Ti [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0017	0.0006	0.0001	0.0011	0.0002	0.0002	0.0010
Tl [mg/L]	0.000014	0.000028	0.000036	0.000099	0.000025	0.000017	0.000007	0.000532	0.000078	0.000068	0.000031
U [mg/L]	0.000017	0.000021	< 0.000002	0.000007	0.000231	0.000021	0.000005	0.000015	0.000002	0.000012	0.000008
V [mg/L]	0.00247	0.00289	0.00163	0.00379	0.00406	0.00591	0.00472	0.00586	0.00462	0.00462	0.00439
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ce [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Cs [mg/L]	0.0296	---	---	---	0.0031	---	---	---	0.0246	---	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	< 0.0001	---	---	---	0.0003	---	---	---	0.0016	---	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Os (tot) [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.0253	---	---	---	0.0102	---	---	---	0.0101	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sc [mg/L]	< 0.0001	---	---	---	0.0001	---	---	---	< 0.0001	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA				
Sample weight [g]	20	20	20	20	20	< 0.001
Ext Fluid [#1 or #2]	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400
pH [No unit]	7.86	7.93	7.89	8.61	8.91	4.67
Conductivity [uS/cm]	51	63	51	72	59	16
Alkalinity [mg/L as CaCO3]	20	27	21	29	29	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	3
F [mg/L]	< 0.06	0.12	0.16	< 0.06	0.12	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	< 0.03	< 0.03	0.06	0.51	< 0.03	< 0.03
Hg [mg/L]	< 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
Al [mg/L]	0.347	0.493	0.976	0.036	0.480	0.001
As [mg/L]	0.0832	0.0475	0.0125	1.57	0.0482	0.0008
Ba [mg/L]	0.00155	0.00078	0.00263	0.00079	0.00072	0.00027
Be [mg/L]	< 0.000007	0.000053	0.00134	< 0.000007	0.000056	< 0.000007
B [mg/L]	0.008	0.030	0.063	0.029	0.030	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00018	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.82	5.80	1.63	7.15	5.78	0.06
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000017	0.000113	0.000059	0.000017	0.000116	0.000021
Cr [mg/L]	0.00036	0.00111	0.00013	0.00048	0.00116	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.014	0.180	0.101	< 0.007	0.181	< 0.007

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Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
K [mg/L]	1.28	0.580	1.59	0.541	0.612	0.055
Li [mg/L]	0.0327	0.0393	0.0882	0.0092	0.0371	< 0.0001
Mg [mg/L]	0.826	0.612	0.375	1.58	0.624	0.005
Mn [mg/L]	0.00046	0.00358	0.00615	0.00018	0.00341	0.00050
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004
Na [mg/L]	0.37	5.87	7.26	4.65	5.91	0.02
Ni [mg/L]	0.0002	0.0009	0.0001	0.0011	0.0009	0.0002
P [mg/L]	< 0.003	0.013	0.062	0.003	0.012	< 0.003
Pb [mg/L]	< 0.00009	0.00014	0.00019	< 0.00009	0.00015	< 0.00009
Sb [mg/L]	0.0017	0.0433	0.0029	0.163	0.0434	< 0.0009
Se [mg/L]	0.00012	0.00013	< 0.00004	0.00005	0.00014	< 0.00004
Si [mg/L]	2.38	2.30	2.90	2.32	2.15	< 0.02
Sn [mg/L]	< 0.00006	0.00027	0.00106	0.00008	0.00058	< 0.00006
Sr [mg/L]	0.00446	0.0117	0.00751	0.0132	0.0117	0.00048
Ti [mg/L]	0.0004	0.0083	0.0005	< 0.0001	0.0075	< 0.0001
Tl [mg/L]	0.000017	0.000027	0.000158	0.000014	0.000026	< 0.000005
U [mg/L]	0.000002	0.000084	0.000368	0.000016	0.000080	< 0.000002
V [mg/L]	0.00247	0.00532	0.00024	0.00252	0.00539	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001
Ce [mg/L]	---	0.00012	0.00009	< 0.00001	0.00011	< 0.00001
Cs [mg/L]	---	0.0035	0.0198	0.0282	0.0036	< 0.0001
Dy [mg/L]	---	0.00001	0.00003	< 0.00001	0.00001	< 0.00001
Er [mg/L]	---	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0012	0.0013	< 0.0001	0.0012	< 0.0001
Gd (tot) [mg/L]	---	0.00002	0.00003	< 0.00001	0.00002	< 0.00001
Ge [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00006	0.00003	< 0.00001	0.00005	< 0.00001
Lu [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	0.0002	0.0005	< 0.0001	0.0002	< 0.0001
Nd [mg/L]	---	0.00007	0.00007	< 0.00001	0.00008	< 0.00001
Os (tot) [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-SP-335	54: VIS-CV5-UM-291	55: VIS-CV5-UM-303	56:BLK: $SPLP1312 Blank #1
Pr [mg/L]	---	0.00002	0.00001	< 0.00001	0.00002	< 0.00001
Pt [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.0252	0.0338	0.0254	0.0250	< 0.0001
Re [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	0.00002	0.00003	< 0.00001	0.00001	< 0.00001
Sc [mg/L]	---	0.0001	< 0.0001	0.0001	0.0001	< 0.0001
Ta [mg/L]	---	0.0002	0.0005	< 0.0001	0.0002	< 0.0001
Tb [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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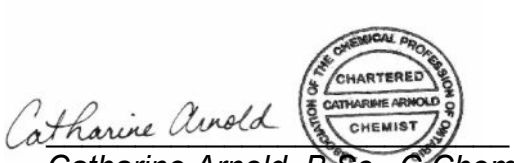
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Accreditation Descriptions

CALA:
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PALA:
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Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0329-FEB25													
Acidity	2	mg/L as Ca	< 2			ND	20	92	90	110	NA		
Acidity - QCBatchID: EWL0330-FEB25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Alkalinity - QCBatchID: EWL0329-FEB25													
Alkalinity	2	mg/L as Ca	< 2			10	20	106	80	120	NA		
Alkalinity - QCBatchID: EWL0330-FEB25													
Alkalinity	2	mg/L as Ca	< 2			0	20	117	80	120	NA		
Anions by IC - QCBatchID: DIO0428-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	103	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			ND	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			11	20	102	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			6	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	100	90	110	NV	75	125
Anions by IC - QCBatchID: DIO0429-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	98	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			16	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			8	20	101	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			12	20	101	90	110	NV	75	125
Anions by IC - QCBatchID: DIO0430-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	NV	75	125
Chloride	0.2	mg/L	<0.2			4	20	99	90	110	NV	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	NV	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			8	20	100	90	110	NV	75	125
Conductivity - QCBatchID: EWL0329-FEB25													
Conductivity	2	uS/cm	2			0	20	101	90	110	NA		
Conductivity - QCBatchID: EWL0330-FEB25													
Conductivity	2	uS/cm	< 2			2	20	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0336-FEB25													
Fluoride	0.06	mg/L	<0.06			0	10	102	90	110	100	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0359-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	102	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0034-FEB25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	106	80	120	104	70	130

OnLine LIMS

0004033536

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0181-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	101	90	110	95	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			1	20	98	90	110	110	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	100	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	97	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	111	70	130
Boron	0.002	mg/L	<0.002			1	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	107	70	130
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	97	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	107	90	110	91	70	130
Cobalt	0.000004	mg/L	<0.000004			1	20	99	90	110	79	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	111	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	106	90	110	104	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	115	70	130
Molybdenum	0.0004	mg/L	<0.0004			2	20	103	90	110	100	70	130
Nickel	0.0001	mg/L	<0.0001			2	20	104	90	110	92	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium (total)	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			3	20	104	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			12	20	102	90	110	97	70	130
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	70	70	130
Sodium	0.01	mg/L	<0.01			1	20	106	90	110	104	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	101	90	110	88	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130

OnLine LIMS

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0004033536

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	104	90	110	104	70	130
Tin	0.00006	mg/L	<0.00006			9	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Vanadium	0.00001	mg/L	<0.00001			4	20	100	90	110	106	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130

OnLine LIMS

0004033536

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			0	20	104	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	94	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0225-FEB25													
Arsenic	0.0002	mg/L	<0.0002			ND	20	97	90	110	104	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130

OnLine LIMS

0004033536

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11027-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
pH - QCBatchID: EWL0329-FEB25													
pH	0.05	No unit	NA			0		100			NA		
pH - QCBatchID: EWL0330-FEB25													
pH	0.05	No unit	NA			1		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0175-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110	98	75	125

OnLine LIMS

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26-February-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11029-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309
Paste pH [no unit]	21-Feb-25	12:31	21-Feb-25	16:35	9.70	9.95	9.72	9.75	9.72	9.74
Fizz Rate [rating]	20-Feb-25	08:16	21-Feb-25	16:35	3	3	3	3	3	3
Sample weight [g]	20-Feb-25	07:22	21-Feb-25	16:35	1.99	1.98	2.00	2.02	2.01	2.01
HCl Added [mL]	21-Feb-25	06:33	21-Feb-25	16:35	20.00	25.80	20.00	20.00	20.00	29.90
HCl [Normality]	20-Feb-25	08:38	21-Feb-25	16:35	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	20-Feb-25	08:38	21-Feb-25	16:35	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	21-Feb-25	12:44	21-Feb-25	16:35	12.84	12.88	14.58	15.55	14.00	13.11
Final pH [no unit]	21-Feb-25	08:41	21-Feb-25	16:35	1.50	1.52	1.37	1.45	1.30	1.58
NP [t CaCO3/1000 t]	21-Feb-25	12:44	21-Feb-25	16:35	18.0	32.6	13.5	11.0	14.9	41.8
AP [t CaCO3/1000 t]	21-Feb-25	16:00	21-Feb-25	16:00	1.66	1.47	2.94	8.91	2.75	1.00
Net NP [t CaCO3/1000 t]	21-Feb-25	16:00	21-Feb-25	16:00	16.3	31.1	10.6	2.09	12.2	40.8
NP/AP [ratio]	21-Feb-25	16:00	21-Feb-25	16:00	10.9	22.2	4.60	1.24	5.42	41.8
Sulphur (total) [%]	21-Feb-25	12:42	21-Feb-25	16:00	0.069	0.062	0.127	0.389	0.119	0.041
Acid Leachable SO4-S [%]	21-Feb-25	16:00	21-Feb-25	16:00	< 0.04	< 0.04	< 0.04	0.10	< 0.04	< 0.04
Sulphide [%]	21-Feb-25	15:50	21-Feb-25	16:00	0.05	0.05	0.09	0.28	0.09	0.03
Carbon (total) [%]	21-Feb-25	12:42	21-Feb-25	16:00	0.171	0.339	0.105	0.049	0.092	0.437
Carbonate (HCl) as %CO3 [%]	21-Feb-25	18:21	24-Feb-25	10:02	0.77	1.65	0.45	0.19	0.35	2.19

OnLine LIMS

0004028472

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ABA - Modified Sobek

LR Report : CA11029-FEB25

Analysis	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318
Paste pH [no unit]	10.05	9.69	9.75	9.62	10.07	9.80	9.59	9.72	9.77
Fizz Rate [rating]	3	3	3	3	3	3	3	3	3
Sample weight [g]	2.00	1.99	1.99	2.03	2.03	2.01	2.03	2.01	1.99
HCl Added [mL]	28.90	29.80	20.00	29.50	20.00	20.00	82.10	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	15.09	10.55	15.03	9.69	10.68	12.83	25.94	12.74	12.70
Final pH [no unit]	1.53	1.51	1.25	1.56	1.50	1.60	1.55	1.56	1.55
NP [t CaCO3/1000 t]	34.5	48.4	12.5	48.8	22.9	17.8	138	18.1	18.3
AP [t CaCO3/1000 t]	0.78	1.91	0.31	2.34	1.56	2.38	3.66	2.06	0.81
Net NP [t CaCO3/1000 t]	33.7	46.5	12.2	46.5	21.3	15.4	135	16.0	17.5
NP/AP [ratio]	44.2	25.4	40.3	20.8	14.7	7.49	37.8	8.78	22.5
Sulphur (total) [%]	0.032	0.093	0.019	0.115	0.057	0.083	0.263	0.086	0.041
Acid Leachable SO4-S [%]	< 0.04	< 0.04	<0.04	0.04	< 0.04	< 0.04	0.15	< 0.04	< 0.04
Sulphide [%]	0.02	0.06	< 0.01	0.08	0.05	0.08	0.12	0.07	0.03
Carbon (total) [%]	0.344	0.550	0.045	0.625	0.213	0.114	2.84	0.151	0.139
Carbonate (HCl) as %CO3 [%]	1.73	2.68	0.18	3.12	1.05	0.48	13.7	0.74	0.60

Analysis	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Paste pH [no unit]	9.51	10.11	10.13	9.54	9.83	9.90	9.65	8.68	9.81
Fizz Rate [rating]	3	3	3	3	3	3	3	3	3
Sample weight [g]	2.02	2.03	1.99	2.02	2.00	1.99	2.02	2.01	2.03
HCl Added [mL]	58.90	20.00	20.00	28.20	29.80	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	16.32	12.49	8.63	17.18	12.50	9.44	12.73	15.82	15.53
Final pH [no unit]	1.55	1.42	1.69	1.50	1.59	1.81	1.50	1.72	1.66
NP [t CaCO3/1000 t]	105	18.5	28.6	27.3	43.2	26.5	18.0	10.4	11.0
AP [t CaCO3/1000 t]	2.97	0.38	0.31	1.91	1.12	0.78	0.31	8.50	0.34
Net NP [t CaCO3/1000 t]	102	18.1	28.3	25.4	42.1	25.7	17.7	1.90	10.7

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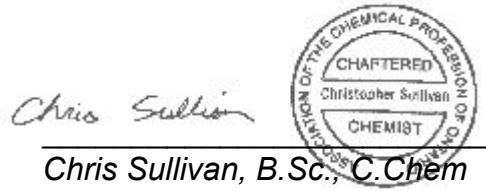
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Analysis	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
NP/AP [ratio]	35.5	49.3	92.3	14.3	38.4	33.9	58.1	1.22	32.0
Sulphur (total) [%]	0.188	0.017	0.017	0.080	0.043	0.039	< 0.005	0.381	< 0.005
Acid Leachable SO4-S [%]	0.09	< 0.04	<0.04	< 0.04	< 0.04	< 0.04	<0.04	0.11	<0.04
Sulphide [%]	0.10	0.01	< 0.01	0.06	0.04	0.02	< 0.01	0.27	0.01
Carbon (total) [%]	2.36	0.143	0.320	0.266	0.442	0.259	0.102	0.066	0.089
Carbonate (HCl) as %CO3 [%]	11.4	0.65	1.62	1.32	2.23	1.21	0.45	0.25	0.39

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Predicition Manual 2009



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0072-FEB25														
Carbon (total)	0.005	%	<0.005			2	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			4	20				106	70	130	
Carbon/Sulphur - QCBatchID: ECS0073-FEB25														
Sulphide	0.01	%	< 0.01			2	20	106	80	120				
Carbon/Sulphur - QCBatchID: ECS0074-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			4	20	98	80	120				

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Quebec MA200-Met 1.2 Digest

26-February-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11030-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Mercury [ug/g]	20-Feb-25	15:25	20-Feb-25	15:26	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	9500	9300	7500	9300	21000	10000	13000	14000
Arsenic [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	220	130	22	900	1500	38	440	550
Boron [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	3	9	9	10	2	3	3	12
Barium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	6.4	11	5.9	72	36	5.4	32	51
Beryllium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	0.17	0.41	0.10	0.65	3.1	1.1	0.19	1.3
Bismuth [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	< 0.09	< 0.09	< 0.09	0.63	0.37	0.48	0.14	0.67
Calcium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	9400	17000	7400	5600	3100	16000	16000	13000
Cadmium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	0.03	0.19	0.04	0.07	0.04	0.02	0.03	0.09
Cobalt [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	38	30	21	48	56	18	43	49
Chromium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	240	140	240	200	870	200	230	460
Copper [µg/g]	13-Feb-25	13:04	14-Feb-25	11:03	81	120	110	170	33	94	7.5	93
Iron [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	11000	9800	10000	19000	23000	11000	13000	25000
Potassium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	590	520	290	3200	7700	390	3200	4800
Lithium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	130	80	85	230	330	150	240	240
Magnesium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	8400	7500	8400	12000	37000	11000	14000	28000
Manganese [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	220	230	150	190	280	290	330	520
Molybdenum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.3	0.1	3.4	0.6	0.1	0.2	0.3	0.4
Sodium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	370	240	390	360	100	340	630	86
Nickel [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	190	110	170	270	650	97	230	500

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Phosphorus [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	150	160	180	480	310	180	150	250
Lead [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	3.2	3.8	0.65	2.0	1.1	0.91	2.8	1.9
Antimony [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	13	2.5	2.9	17	19	4.5	13	50
Selenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.3	0.3	0.3	0.7	0.2	0.2	< 0.1	0.2
Tin [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	< 5	< 5	< 5	< 5	< 5	11	< 5	< 5
Strontium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	6.1	13	5.8	6.9	9.0	8.5	9.2	18
Titanium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	220	450	410	460	440	450	470	450
Thallium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.23	0.12	0.10	3.9	6.6	0.12	0.82	5.9
Uranium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	0.062	0.070	0.036	0.41	0.12	0.19	0.062	0.48
Vanadium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	20	24	22	25	48	29	23	36
Zinc [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	14	45	11	39	34	19	20	42
Gold [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	< 0.02	---	---	---	< 0.02
Cerium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	5.29	---	---	---	6.81
Cesium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	690	---	---	---	1300
Dysprosium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.34	---	---	---	0.47
Erbium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.17	---	---	---	0.28
Europium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.097	---	---	---	0.096
Gallium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	3	---	---	---	3
Gadolinium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.50	---	---	---	0.61
Germanium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:02	---	---	---	0.5	---	---	---	0.6
Hafnium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.1	---	---	---	< 0.1
Holmium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.060	---	---	---	0.092
Indium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.05	---	---	---	0.04
Iridium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:59	---	---	---	< 0.01	---	---	---	< 0.01
Lanthanum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	2.55	---	---	---	3.53
Lutetium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.023	---	---	---	0.042
Niobium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.3	---	---	---	0.2
Neodymium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	2.7	---	---	---	3.3
Osmium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.1	---	---	---	< 0.1
Palladium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.2	---	---	---	< 0.2
Praseodymium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.71	---	---	---	0.88
Platinum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.1	---	---	---	< 0.1
Rhodium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.01	---	---	---	< 0.01
Rubidium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	450	---	---	---	600
Rhenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.05	---	---	---	< 0.05
Ruthenium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	< 0.01	---	---	---	< 0.01
Samarium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.53	---	---	---	0.63
Scandium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	4	---	---	---	9

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Tantalum [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.01	---	---	---	< 0.01
Terbium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	0.050	---	---	---	0.065
Tellurium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.1	---	---	---	< 0.1
Thorium [µg/g]	13-Feb-25	13:04	14-Feb-25	11:01	---	---	---	0.55	---	---	---	0.53
Thulium [µg/g]	14-Feb-25	10:36	14-Feb-25	11:59	---	---	---	< 0.001	---	---	---	0.019

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Mercury [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	17000	7100	9300	11000	7200	10000	10000	4900	14000	5900	14000	10000
Arsenic [µg/g]	73	330	22	59	840	180	51	1100	360	130	58	30
Boron [µg/g]	2	2	7	5	15	3	2	23	9	7	3	3
Barium [µg/g]	128	1.1	11	18	3.2	19	8.5	0.54	60	26	23	13
Beryllium [µg/g]	0.16	0.35	0.75	0.80	1.2	0.99	0.54	0.75	2.7	1.1	0.30	1.4
Bismuth [µg/g]	0.14	0.33	0.34	0.25	0.89	0.36	0.63	0.76	1.2	0.70	0.10	0.25
Calcium [µg/g]	2300	13000	13000	11000	30000	7100	8300	25000	9200	15000	12000	19000
Cadmium [µg/g]	0.02	0.07	0.05	0.02	0.08	0.03	< 0.02	0.06	0.07	0.30	0.03	0.02
Cobalt [µg/g]	15	40	14	20	91	35	22	86	23	24	26	18
Chromium [µg/g]	290	540	120	170	720	320	290	760	430	130	360	180
Copper [µg/g]	15	44	110	85	72	80	81	45	82	84	120	96
Iron [µg/g]	14000	11000	8400	10000	32000	13000	13000	33000	16000	6500	18000	12000
Potassium [µg/g]	6800	49	660	720	2100	950	340	46	8700	790	720	640
Lithium [µg/g]	320	9	160	130	45	220	110	24	440	94	210	160
Magnesium [µg/g]	21000	22000	6100	8300	56000	12000	12000	52000	24000	4600	14000	10000
Manganese [µg/g]	120	250	240	180	720	180	220	750	370	270	270	320
Molybdenum [µg/g]	0.6	< 0.1	0.2	0.3	< 0.1	0.4	0.8	< 0.1	0.3	0.2	0.2	0.1
Sodium [µg/g]	240	31	520	630	43	340	390	37	630	410	320	350
Nickel [µg/g]	140	580	69	120	980	230	190	1200	210	86	170	85
Phosphorus [µg/g]	400	98	190	530	160	310	220	110	230	330	160	380
Lead [µg/g]	5.2	4.4	0.54	0.65	0.36	0.93	0.76	0.92	1.1	2.4	1.5	0.50
Antimony [µg/g]	9.8	33	7.3	1.6	45	5.8	2.3	73	12	7.4	5.1	1.8
Selenium [µg/g]	< 0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.3	< 0.1	0.1	0.2	0.1
Tin [µg/g]	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	6	< 5	< 5	< 5
Strontium [µg/g]	8.2	26	14	22	12	8.9	7.6	40	11	9.5	12	12
Titanium [µg/g]	740	29	510	510	65	380	370	32	690	390	580	480

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Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Thallium [µg/g]	3.0	0.20	0.60	0.85	2.8	0.60	0.20	0.11	8.7	0.30	0.29	0.40
Uranium [µg/g]	0.23	0.056	0.24	0.37	0.058	0.33	0.39	0.040	0.39	0.29	0.11	0.19
Vanadium [µg/g]	32	20	20	24	28	23	24	17	33	18	39	30
Zinc [µg/g]	25	16	13	9.8	16	16	14	19	38	71	20	14
Gold [µg/g]	---	---	---	< 0.02	---	---	---	< 0.02	---	---	---	< 0.02
Cerium [µg/g]	---	---	---	9.55	---	---	---	1.10	---	---	---	2.72
Cesium [µg/g]	---	---	---	100	---	---	---	14	---	---	---	83
Dysprosium [µg/g]	---	---	---	0.42	---	---	---	0.59	---	---	---	0.35
Erbium [µg/g]	---	---	---	0.23	---	---	---	0.35	---	---	---	0.22
Europium [µg/g]	---	---	---	0.18	---	---	---	0.12	---	---	---	0.098
Gallium [µg/g]	---	---	---	3	---	---	---	2	---	---	---	3
Gadolinium [µg/g]	---	---	---	0.71	---	---	---	0.52	---	---	---	0.34
Germanium [µg/g]	---	---	---	0.4	---	---	---	0.6	---	---	---	< 0.3
Hafnium [µg/g]	---	---	---	0.1	---	---	---	< 0.1	---	---	---	< 0.1
Holmium [µg/g]	---	---	---	0.079	---	---	---	0.12	---	---	---	0.074
Indium [µg/g]	---	---	---	0.04	---	---	---	0.07	---	---	---	0.06
Iridium [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Lanthanum [µg/g]	---	---	---	4.35	---	---	---	0.44	---	---	---	1.35
Lutetium [µg/g]	---	---	---	0.028	---	---	---	0.044	---	---	---	0.033
Niobium [µg/g]	---	---	---	0.2	---	---	---	0.2	---	---	---	0.5
Neodymium [µg/g]	---	---	---	4.9	---	---	---	1.0	---	---	---	1.3
Osmium [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Palladium [µg/g]	---	---	---	< 0.2	---	---	---	< 0.2	---	---	---	< 0.2
Praseodymium [µg/g]	---	---	---	1.28	---	---	---	0.19	---	---	---	0.35
Platinum [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Rhodium [µg/g]	---	---	---	< 0.01	---	---	---	< 0.01	---	---	---	< 0.01
Rubidium [µg/g]	---	---	---	97.5	---	---	---	5.08	---	---	---	58.9
Rhenium [µg/g]	---	---	---	< 0.05	---	---	---	< 0.05	---	---	---	< 0.05
Ruthenium [µg/g]	---	---	---	< 0.01	---	---	---	0.01	---	---	---	< 0.01
Samarium [µg/g]	---	---	---	0.84	---	---	---	0.38	---	---	---	0.28
Scandium [µg/g]	---	---	---	3	---	---	---	7	---	---	---	4
Tantalum [µg/g]	---	---	---	0.02	---	---	---	< 0.01	---	---	---	< 0.01
Terbium [µg/g]	---	---	---	0.066	---	---	---	0.076	---	---	---	0.037
Tellurium [µg/g]	---	---	---	< 0.1	---	---	---	< 0.1	---	---	---	< 0.1
Thorium [µg/g]	---	---	---	0.57	---	---	---	0.15	---	---	---	0.09
Thulium [µg/g]	---	---	---	0.011	---	---	---	0.027	---	---	---	0.010

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Phone: 705-652-2000 FAX: 705-652-6365

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Mercury [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Silver [µg/g]	< 0.5	< 0.5	0.6	< 0.5
Aluminum [µg/g]	8100	31000	53000	4700
Arsenic [µg/g]	94	180	120	11
Boron [µg/g]	3	2	5	7
Barium [µg/g]	8.1	86	1.3	3.5
Beryllium [µg/g]	4.6	3.2	6.4	2.6
Bismuth [µg/g]	0.41	0.69	0.09	0.88
Calcium [µg/g]	14000	3900	3300	4300
Cadmium [µg/g]	< 0.02	< 0.02	1.5	0.36
Cobalt [µg/g]	20	33	51	1.5
Chromium [µg/g]	360	650	820	97
Copper [µg/g]	59	4.2	130	4.8
Iron [µg/g]	11000	32000	74000	3000
Potassium [µg/g]	600	12000	100	1500
Lithium [µg/g]	120	610	550	250
Magnesium [µg/g]	10000	47000	98000	2300
Manganese [µg/g]	200	550	510	510
Molybdenum [µg/g]	0.2	0.3	0.2	0.3
Sodium [µg/g]	670	210	120	560
Nickel [µg/g]	140	280	170	10
Phosphorus [µg/g]	1200	660	250	1100
Lead [µg/g]	1.3	0.73	60	1.8
Antimony [µg/g]	5.8	7.8	18	1.7
Selenium [µg/g]	0.1	< 0.1	0.3	< 0.1
Tin [µg/g]	5	< 5	< 5	< 5
Strontium [µg/g]	12	11	16	5.7
Titanium [µg/g]	310	930	410	13
Thallium [µg/g]	0.43	10	0.19	1.6
Uranium [µg/g]	0.75	0.25	0.038	0.98
Vanadium [µg/g]	21	55	240	3
Zinc [µg/g]	12	36	400	12
Gold [µg/g]	---	---	---	< 0.02
Cerium [µg/g]	---	---	---	1.76
Cesium [µg/g]	---	---	---	340
Dysprosium [µg/g]	---	---	---	2.11
Erbium [µg/g]	---	---	---	0.23
Europium [µg/g]	---	---	---	0.034

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LR Report : **CA11030-FEB25**

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343
Gallium [µg/g]	---	---	---	5
Gadolinium [µg/g]	---	---	---	2.09
Germanium [µg/g]	---	---	---	< 0.3
Hafnium [µg/g]	---	---	---	0.2
Holmium [µg/g]	---	---	---	0.15
Indium [µg/g]	---	---	---	0.05
Iridium [µg/g]	---	---	---	< 0.01
Lanthanum [µg/g]	---	---	---	0.72
Lutetium [µg/g]	---	---	---	0.019
Niobium [µg/g]	---	---	---	0.7
Neodymium [µg/g]	---	---	---	0.96
Osmium [µg/g]	---	---	---	< 0.1
Palladium [µg/g]	---	---	---	< 0.2
Praseodymium [µg/g]	---	---	---	0.26
Platinum [µg/g]	---	---	---	< 0.1
Rhodium [µg/g]	---	---	---	< 0.01
Rubidium [µg/g]	---	---	---	260
Rhenium [µg/g]	---	---	---	< 0.05
Ruthenium [µg/g]	---	---	---	< 0.01
Samarium [µg/g]	---	---	---	1.31
Scandium [µg/g]	---	---	---	0.71
Tantalum [µg/g]	---	---	---	0.06
Terbium [µg/g]	---	---	---	0.60
Tellurium [µg/g]	---	---	---	< 0.1
Thorium [µg/g]	---	---	---	0.95
Thulium [µg/g]	---	---	---	0.005

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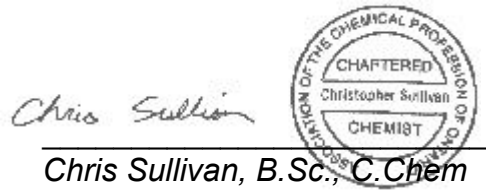
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Method Descriptions

Parameter	SGS Method Code	Reference Method Code	PALA
Mercury by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/EPA 245	Y
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8	N
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005	MA200_MET.1.2	N
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005	MA200_MET.1.2	Y

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0030-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	94	80	120	106	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0104-FEB25													
Cerium	0.001	µg/g	<0.001			ND	20	92	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			ND	20	92	70	130	NV	70	130
Germanium	0.3	µg/g	<0.3			ND	20	107	70	130	NV	70	130
Gold	0.02	µg/g	<0.02			14	20	106	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			15	20	95	70	130	NV	70	130
Iridium	0.01	µg/g	<0.1			ND	20	102	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			ND	20	93	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			5	20	99	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	95	70	130	NV	70	130
Palladium	0.2	µg/g	<0.2			ND	20	101	70	130	NV	70	130
Platinum	0.1	µg/g	<0.1			ND	20	91	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	107	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.004			ND	20	91	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			7	20	94	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0125-FEB25													
Dysprosium	0.001	µg/g	< 0.001			2	20	96	70	130			
Erbium	0.001	µg/g	< 0.001			6	20	99	70	130			
Europium	0.001	µg/g	< 0.001			4	20	99	70	130			
Gadolinium	0.001	µg/g	< 0.001			1	20	96	70	130			
Gallium	0.03	µg/g	< 0.03			4	20	96	70	130			
Holmium	0.001	µg/g	< 0.001			3	20	97	70	130			
Indium	0.01	µg/g	< 0.01			4	20	95	70	130			
Lutetium	0.001	µg/g	< 0.001			1	20	97	70	130			
Neodymium	0.006	µg/g	< 0.006			1	20	99	70	130			
Praseodymium	0.001	µg/g	< 0.001			4	20	99	70	130			
Samarium	0.001	µg/g	< 0.001			1	20	98	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	101	70	130			
Terbium	0.001	µg/g	< 0.001			1	20	98	70	130			
Metals, ICP-MS - QCBatchID: EMS0104-FEB25													
Aluminum	3	µg/g	<3			2	20	108	70	130	104	70	130

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11030-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Antimony	0.8	µg/g	<0.8			ND	20	102	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			0	20	102	70	130	110	70	130
Barium	0.01	µg/g	<0.01			4	20	102	70	130	88	70	130
Beryllium	0.02	µg/g	<0.02			2	20	97	70	130	108	70	130
Bismuth	0.09	µg/g	<0.09			3	20	102	70	130	NV	70	130
Boron	1	µg/g	<1			5	20	103	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			6	20	106	70	130	110	70	130
Calcium	3	µg/g	<3			1	20	101	70	130	98	70	130
Chromium	0.5	µg/g	<0.5			1	20	106	70	130	115	70	130
Cobalt	0.01	µg/g	<0.01			1	20	103	70	130	102	70	130
Copper	0.1	µg/g	<0.1			1	20	109	70	130	96	70	130
Iron	3	µg/g	<3			0	20	103	70	130	119	70	130
Lead	0.05	µg/g	<0.05			2	20	103	70	130	96	70	130
Lithium	2	µg/g	<2			0	20	99	70	130	110	70	130
Magnesium	3	µg/g	<1			0	20	108	70	130	114	70	130
Manganese	0.1	µg/g	<0.1			0	20	103	70	130	103	70	130
Molybdenum	0.1	µg/g	<0.1			1	20	97	70	130	122	70	130
Nickel	0.1	µg/g	<0.1			1	20	106	70	130	108	70	130
Phosphorus	3	µg/g	<3			0	20	101	70	130	NV	70	130
Potassium	3	µg/g	<3			0	20	102	70	130	93	70	130
Selenium	0.1	µg/g	<0.1			5	20	104	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	110	70	130	94	70	130
Sodium	3	µg/g	<3			0	20	109	70	130	106	70	130
Strontium	0.02	µg/g	<0.02			1	20	104	70	130	97	70	130
Thallium	0.02	µg/g	<0.02			ND	20	NV	70	130	NV	70	130
Thorium	0.01	µg/g	<0.5			ND	20	98	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	105	70	130
Titanium	0.1	µg/g	<0.1			0	20	95	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			1	20	98	70	130	85	70	130
Vanadium	1	µg/g	<1			0	20	103	70	130	116	70	130
Zinc	0.7	µg/g	<0.7			3	20	108	70	130	103	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

03-March-2025

Date Rec. : 05 February 2025
LR Report: **CA11031-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	18-Feb-25	13:08	21-Feb-25	16:24	20	20	20	21	19	20	20	20
Ext Fluid [#1 or #2]	20-Feb-25	14:24	21-Feb-25	16:24	1	1	1	1	1	1	1	1
Ext Volume [mL]	20-Feb-25	14:24	21-Feb-25	16:24	400	400	400	400	400	400	400	400
pH [No unit]	21-Feb-25	15:37	24-Feb-25	15:09	8.71	8.28	8.65	7.75	8.05	8.23	7.96	8.26
Conductivity [uS/cm]	21-Feb-25	15:37	24-Feb-25	15:09	73	58	63	64	61	66	68	69
Alkalinity [mg/L as CaCO3]	21-Feb-25	15:37	24-Feb-25	15:09	34	25	27	30	25	27	29	29
Acidity [mg/L as CaCO3]	21-Feb-25	15:37	24-Feb-25	15:09	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	23-Feb-25	11:05	24-Feb-25	09:18	< 0.06	< 0.06	< 0.06	0.16	0.07	< 0.06	0.07	0.11
Br [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	21-Feb-25	15:47	24-Feb-25	09:49	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	24-Feb-25	10:59	25-Feb-25	09:34	0.08	< 0.03	< 0.03	0.28	0.20	< 0.03	0.16	0.06
Hg [mg/L]	26-Feb-25	15:58	26-Feb-25	14:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.328	0.279	0.324	0.271	0.064	0.173	0.171	0.063
As [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.248	0.0785	0.0694	0.783	0.577	0.0355	0.460	0.179
Ba [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	0.00058	0.00107	0.00105	0.00187	0.00095	0.00107	0.00099	0.00080
Be [mg/L]	25-Feb-25	16:25	26-Feb-25	12:41	< 0.000007	< 0.000007	< 0.000007	0.000016	0.000018	< 0.000007	< 0.000007	< 0.000007
B [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.027	0.020	0.029	0.062	0.031	0.027	0.028	0.036

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Bi [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00001	< 0.00001	< 0.00001	0.00003	0.00002	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	6.89	5.90	6.62	5.24	5.34	6.21	6.69	5.81
Cd [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.000090	0.000056	0.000226	0.000506	0.000127	0.000026	0.000050	0.000070
Cr [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00127	0.00089	0.00182	0.00418	0.00252	0.00056	0.00076	0.00048
Cu [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.046	0.052	0.225	0.310	0.084	0.025	0.023	0.020
K [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.499	0.518	0.178	1.21	1.19	0.356	1.25	1.36
Li [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0148	0.0082	0.0146	0.0793	0.0313	0.0170	0.0323	0.0810
Mg [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	1.10	0.964	0.996	1.38	1.07	0.807	0.976	1.19
Mn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00137	0.00123	0.00465	0.00610	0.00231	0.00092	0.00070	0.00035
Mo [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.0004	< 0.0004	< 0.0004	0.0008	< 0.0004	< 0.0004	< 0.0004	0.0005
Na [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	5.08	4.19	4.72	4.53	4.52	5.06	4.68	4.88
Ni [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0008	0.0004	0.0009	0.0040	0.0022	0.0003	0.0005	0.0004
P [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.003	< 0.003	0.005	0.020	0.005	0.003	0.004	0.003
Pb [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0229	0.0046	0.0197	0.101	0.0289	0.0150	0.0571	0.0311
Se [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00015	0.00008	0.00018	0.00030	< 0.00004	0.00020	0.00007	< 0.00004
Si [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	2.07	2.61	2.48	2.58	1.92	2.21	2.17	2.44
Sn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.00006	< 0.00006	0.00006	0.00022	0.00010	0.00006	< 0.00006	0.00092
Sr [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0112	0.0112	0.0138	0.0111	0.0244	0.0141	0.0225	0.0104
Ti [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.0012	0.0010	0.0049	0.0071	0.0015	0.0006	0.0008	0.0003
Tl [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.000005	< 0.000005	< 0.000005	0.000041	0.000057	< 0.000005	0.000008	0.000025
U [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.000009	0.000019	0.000014	0.000096	0.000006	0.000007	0.000015	0.000005
V [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	0.00376	0.00487	0.00444	0.00432	0.00242	0.00443	0.00377	0.00291
Zn [mg/L]	25-Feb-25	16:25	26-Feb-25	12:42	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	0.0497	---	---	---	0.0463
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	0.0004
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : CA11031-FEB25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310	12: VIS-CV5-UM-311
Ir [mg/L]	25-Feb-25	16:25	27-Feb-25	11:51	---	---	---	< 0.00001	---	---	---	< 0.00001
La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Os [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	0.0854	---	---	---	0.0675
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:01	---	---	---	< 0.0001	---	---	---	< 0.0001
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:01	---	---	---	< 0.00001	---	---	---	< 0.00001

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21	20	19	20	20	21	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.50	9.34	9.46	8.96	9.42	9.25	9.41	9.23	9.31	9.28	9.00	8.93
Conductivity [uS/cm]	65	63	66	70	75	61	66	73	71	63	65	65
Alkalinity [mg/L as CaCO3]	27	27	36	27	34	33	28	32	30	27	27	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	< 0.06	< 0.06	< 0.06	< 0.06	0.15	< 0.06	< 0.06	0.12	0.26	0.13	< 0.06	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.04	< 0.03	< 0.03	0.08	0.05	0.06	< 0.03	0.11	0.13	0.08	< 0.03	0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.149	0.016	0.322	0.222	0.005	0.207	0.264	0.006	0.281	0.315	0.287	0.183
As [mg/L]	0.0786	0.0443	0.0208	0.218	0.160	0.150	0.0351	0.303	0.374	0.221	0.0203	0.0906
Ba [mg/L]	0.00141	0.00045	0.00087	0.00120	0.00057	0.00089	0.00088	0.00061	0.00110	0.00077	0.00115	0.00089
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	0.000023	< 0.000007	0.000013	< 0.000007	< 0.000007	0.000044	0.000022	< 0.000007	< 0.000007
B [mg/L]	0.033	0.025	0.022	0.027	0.027	0.023	0.021	0.033	0.035	0.023	0.021	0.022
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	4.13	5.89	6.19	6.87	5.88	6.59	6.73	6.04	5.14	6.43	5.98	6.41
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000033	< 0.000004	0.000086	0.000392	< 0.000004	0.000091	0.000164	< 0.000004	0.000155	0.000054	0.000058	0.000052
Cr [mg/L]	0.00058	0.00029	0.00157	0.00220	0.00064	0.00196	0.00397	0.00079	0.00412	0.00110	0.00130	0.00060
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.032	< 0.007	0.112	0.159	< 0.007	0.085	0.188	< 0.007	0.168	0.048	0.077	0.032
K [mg/L]	1.38	0.055	0.363	0.407	0.276	0.513	0.429	0.095	3.12	0.342	0.529	1.01
Li [mg/L]	0.0537	0.0003	0.0313	0.0169	0.0027	0.0408	0.0122	0.0023	0.121	0.0206	0.0116	0.0210
Mg [mg/L]	0.951	1.51	0.905	1.21	2.96	0.964	1.00	1.89	0.888	0.816	0.894	0.967
Mn [mg/L]	0.00078	0.00009	0.00272	0.00357	0.00007	0.00187	0.00357	0.00016	0.00519	0.00173	0.00179	0.00088
Mo [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0096	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Na [mg/L]	6.61	4.27	5.27	5.44	4.67	4.25	4.81	5.78	5.82	4.95	5.04	4.60
Ni [mg/L]	0.0004	0.0001	0.0006	0.0024	0.0003	0.0009	0.0014	0.0004	0.0014	0.0005	0.0004	0.0002
P [mg/L]	0.009	< 0.003	< 0.003	0.008	< 0.003	0.005	0.004	0.003	< 0.003	0.006	0.003	0.003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0307	0.0096	0.0238	0.0078	0.0150	0.0144	0.0040	0.130	0.0212	0.0240	0.0056	0.0081
Se [mg/L]	< 0.00004	< 0.00004	0.00005	0.00055	< 0.00004	0.00011	0.00010	< 0.00004	0.00006	0.00011	0.00008	0.00032
Si [mg/L]	1.99	2.34	2.70	2.09	2.59	2.58	3.12	2.63	2.53	2.54	2.47	2.32
Sn [mg/L]	0.00008	0.00009	< 0.00006	0.00007	0.00008	0.00007	0.00009	0.00019	0.00017	0.00006	< 0.00006	0.00008
Sr [mg/L]	0.00966	0.00775	0.0121	0.0118	0.00757	0.0128	0.0117	0.02483	0.00797	0.00934	0.0113	0.0113
Ti [mg/L]	0.0015	< 0.0001	0.0026	0.0040	< 0.0001	0.0020	0.0039	< 0.0001	0.0040	0.0008	0.0021	0.0007
Tl [mg/L]	0.000032	< 0.000005	0.000006	0.000006	< 0.000005	0.000017	< 0.000005	< 0.000005	0.000156	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000002	0.000006	0.000107	0.000045	0.000002	0.000009	0.000014	0.000002	0.000219	0.000150	0.000008	0.000011
V [mg/L]	0.00168	0.00141	0.00412	0.00740	0.00182	0.00430	0.00625	0.00220	0.00390	0.00465	0.00414	0.00576
Zn [mg/L]	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ce [mg/L]	---	---	---	< 0.00001	---	---	---	0.00003	---	---	---	0.00001
Cs [mg/L]	---	---	---	0.0084	---	---	---	0.0055	---	---	---	0.0077

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ga [mg/L]	---	---	---	0.0003	---	---	---	0.0017	---	---	---	0.0003
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Ir [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
La [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---	< 0.00001
Os [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Rb [mg/L]	---	---	---	0.0098	---	---	---	0.0029	---	---	---	0.0167
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Sc [mg/L]	---	---	---	0.0001	---	---	---	< 0.0001	---	---	---	0.0001
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
Sample Date & Time	NA	NA	NA	NA	
Sample weight [g]	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
pH [No unit]	9.06	8.81	8.74	8.54	8.66
Conductivity [uS/cm]	68	64	78	59	60
Alkalinity [mg/L as CaCO3]	35	27	32	27	27
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.10	0.17	0.29	0.19	0.19
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.06	0.04	0.03	0.06	0.08
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.245	0.130	0.098	0.719	0.726
As [mg/L]	0.147	0.0917	0.0873	0.0091	0.0090
Ba [mg/L]	0.00066	0.00112	0.00093	0.00138	0.00137
Be [mg/L]	0.000069	0.000027	0.000011	0.000239	0.000293
B [mg/L]	0.024	0.030	0.066	0.030	0.031
Bi [mg/L]	0.00001	< 0.00001	< 0.00001	0.00019	0.00023
Ca [mg/L]	6.56	4.16	5.86	5.83	5.75
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000006	< 0.000003
Co [mg/L]	0.000082	0.000046	0.000111	0.000023	0.000026
Cr [mg/L]	0.00158	0.00081	0.00161	< 0.00008	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.004	< 0.001
Fe [mg/L]	0.065	0.052	0.103	0.036	0.036
K [mg/L]	0.377	4.41	0.511	1.30	1.23
Li [mg/L]	0.0129	0.0840	0.0212	0.232	0.245
Mg [mg/L]	0.811	0.818	0.642	0.270	0.266
Mn [mg/L]	0.00141	0.00142	0.00101	0.00963	0.00936
Mo [mg/L]	< 0.0004	< 0.0004	0.0006	0.0005	< 0.0004
Na [mg/L]	5.95	4.52	9.06	4.76	4.63
Ni [mg/L]	0.0008	0.0003	0.0004	< 0.0001	< 0.0001
P [mg/L]	0.014	0.003	0.003	0.084	0.081
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00035	< 0.00009
Sb [mg/L]	0.0212	0.0149	0.108	0.0022	0.0022
Se [mg/L]	0.00021	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.94	1.98	2.19	2.30	2.31
Sn [mg/L]	0.00012	0.00010	0.00008	0.00068	0.00058

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Analysis	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-SP-343
Sr [mg/L]	0.00952	0.0132	0.0411	0.00842	0.00828
Ti [mg/L]	0.0015	0.0018	0.0012	0.0004	0.0004
Tl [mg/L]	0.000011	0.000080	< 0.000005	0.000145	0.000147
U [mg/L]	0.000040	0.000020	0.000002	0.000409	0.000391
V [mg/L]	0.00375	0.00410	0.0108	0.00015	0.00016
Zn [mg/L]	< 0.002	< 0.002	< 0.002	0.006	< 0.002
Au [mg/L]	---	---	---	0.00001	< 0.00001
Ce [mg/L]	---	---	---	< 0.00001	< 0.00001
Cs [mg/L]	---	---	---	0.0139	0.0143
Dy [mg/L]	---	---	---	< 0.00001	< 0.00001
Er [mg/L]	---	---	---	< 0.00001	< 0.00001
Eu [mg/L]	---	---	---	< 0.00001	< 0.00001
Ga [mg/L]	---	---	---	< 0.0001	0.0005
Gd (tot) [mg/L]	---	---	---	< 0.00001	< 0.00001
Ge [mg/L]	---	---	---	0.0001	0.0002
Hf [mg/L]	---	---	---	< 0.0001	< 0.0001
Ho [mg/L]	---	---	---	< 0.00001	< 0.00001
In [mg/L]	---	---	---	< 0.00001	< 0.00001
Ir [mg/L]	---	---	---	< 0.00001	< 0.00001
La [mg/L]	---	---	---	< 0.00001	< 0.00001
Lu [mg/L]	---	---	---	< 0.0001	< 0.0001
Nb [mg/L]	---	---	---	0.0002	0.0002
Nd [mg/L]	---	---	---	< 0.00001	< 0.00001
Os [mg/L]	---	---	---	< 0.0001	< 0.0001
Pd [mg/L]	---	---	---	< 0.0001	< 0.0001
Pr [mg/L]	---	---	---	< 0.00001	< 0.00001
Pt [mg/L]	---	---	---	< 0.0001	< 0.0001
Rh [mg/L]	---	---	---	< 0.00001	< 0.00001
Rb [mg/L]	---	---	---	0.0745	0.0744
Re [mg/L]	---	---	---	< 0.0001	< 0.0001
Ru [mg/L]	---	---	---	< 0.00001	< 0.00001
Sm [mg/L]	---	---	---	< 0.00001	< 0.00001
Sc [mg/L]	---	---	---	< 0.0001	0.0001
Ta [mg/L]	---	---	---	0.0003	0.0004
Tb [mg/L]	---	---	---	< 0.00001	< 0.00001
Te [mg/L]	---	---	---	< 0.0001	< 0.0001
Th [mg/L]	---	---	---	< 0.0001	< 0.0001
Tm [mg/L]	---	---	---	< 0.00001	< 0.00001

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Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
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PALA:
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Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0311-FEB25													
Acidity	2	mg/L as Ca	< 2			0	20	96	90	110	NA		
Alkalinity - QCBatchID: EWL0311-FEB25													
Alkalinity	2	mg/L as Ca	< 2			ND	20	98	80	120	NA		
Anions by IC - QCBatchID: DIO0380-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			ND	20	98	90	110	101	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	101	75	125
Nitrite (as N)	0.03	mg/L	<0.03			19	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			9	20	98	90	110	95	75	125
Anions by IC - QCBatchID: DIO0381-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	102	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	114	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			9	20	102	90	110	112	75	125
Conductivity - QCBatchID: EWL0311-FEB25													
Conductivity	2	uS/cm	2			5	20	100	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0328-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0035-FEB25													
Mercury	0.00001	mg/L	< 0.00001			17	20	80	80	120	114	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11031-FEB25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
pH - QCBatchID: EWL0311-FEB25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0162-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	100	90	110	95	75	125

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03-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 05 February 2025
LR Report: **CA11032-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	12-Feb-25	15:59	21-Feb-25	16:25	100	100	101	100	100	100	101
Volume D.I. Water [mL]	14-Feb-25	06:34	21-Feb-25	16:25	400	400	400	400	400	400	400
pH [No unit]	22-Feb-25	12:17	24-Feb-25	13:07	8.71	8.73	9.19	8.65	8.83	8.64	8.60
Conductivity [uS/cm]	22-Feb-25	12:17	24-Feb-25	13:07	225	192	158	316	163	186	250
Alkalinity [mg/L as CaCO3]	22-Feb-25	12:17	24-Feb-25	13:07	69	49	56	66	56	50	70
Acidity [mg/L as CaCO3]	22-Feb-25	12:17	24-Feb-25	13:07	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	23-Feb-25	11:05	25-Feb-25	13:57	0.31	1.10	0.27	3.76	1.21	1.45	1.57
Br [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	32	31	< 20	43	< 20	22	22
NO2 [as N mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	22-Feb-25	15:36	24-Feb-25	12:37	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	24-Feb-25	10:59	27-Feb-25	07:37	2.54	1.02	0.04	3.96	3.17	0.11	5.92
Hg [mg/L]	26-Feb-25	15:58	26-Feb-25	14:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.189	0.097	0.661	0.157	0.085	0.128	0.111
As [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	7.63	3.26	0.0898	11.5	9.42	0.353	17.4
Ba [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00255	0.00253	0.00096	0.00509	0.00237	0.00181	0.00384
Be [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.000007	0.000015	< 0.000007	0.000022	0.000014	0.000012	< 0.000007
B [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.117	0.128	0.075	0.416	0.120	0.103	0.117
Bi [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00001	< 0.00001	< 0.00001	0.00003	0.00001	0.00001	< 0.00001

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LR Report : **CA11032-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-UM-304	6: VIS-CV5-UM-305	7: VIS-CV5-UM-306	8: VIS-CV5-UM-307	9: VIS-CV5-UM-308	10: VIS-CV5-UM-309	11: VIS-CV5-UM-310
Ca [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	11.1	10.0	4.71	9.07	7.37	7.23	10.8
Cd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.000003	0.000006	0.000033	0.000006	< 0.000003	< 0.000003	0.000003
Co [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000999	0.000286	0.000151	0.000747	0.000251	0.000200	0.000590
Cr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0584	0.0402	0.134	0.0221	0.0355	0.0486	0.0839
Cu [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.003	< 0.001	< 0.001	0.004	< 0.001	0.001	< 0.001
Fe [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.241	0.139	0.154	0.327	0.118	0.164	0.135
K [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	7.97	10.7	4.10	27.8	9.49	4.84	20.1
Li [mg/L]	25-Feb-25	16:25	27-Feb-25	11:41	0.712	0.483	1.32	2.63	0.331	1.02	1.42
Mg [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	6.51	4.66	5.13	11.2	6.35	3.81	6.18
Mn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00556	0.00326	0.00267	0.00541	0.00230	0.00364	0.00366
Mo [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0040	0.0038	0.0831	0.0106	0.0005	0.0012	0.0045
Na [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	19.0	13.1	11.5	10.9	10.1	19.0	15.3
Ni [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0147	0.0050	0.0017	0.0101	0.0036	0.0016	0.0055
P [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.011	0.005	0.008	0.064	0.021	0.010	0.007
Pb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.00009	< 0.00009	< 0.00009	0.00016	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.539	0.128	0.0355	1.37	0.587	0.255	0.689
Se [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00075	0.00081	0.00111	0.00098	0.00019	0.00054	0.00016
Si [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	5.42	6.32	3.02	5.69	11.8	5.72	7.46
Sn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.00010	0.00007	0.00012	0.00016	0.00008	0.00016	0.00007
Sr [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0193	0.0200	0.00598	0.0149	0.0453	0.0140	0.0245
Ti [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0051	0.0035	0.0040	0.0101	0.0024	0.0030	0.0049
Tl [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000019	0.000025	0.000005	0.000364	0.000271	0.000061	0.000091
U [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.000193	0.000360	0.000007	0.00401	0.000102	0.000269	0.000205
V [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	0.0440	0.0698	0.0438	0.0459	0.0273	0.0486	0.0788
Zn [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	0.00003	---	---	---
Ce [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00004	---	---	---
Cs [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	1.33	---	---	---
Dy [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Er [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	0.0001	---	---	---
Hf [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
In [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Ir (tot) [mg/L]	26-Feb-25	15:46	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---

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La [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00017	---	---	---
Lu [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.00002	---	---	---
Os (tot) [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	2.25	---	---	---
Re [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	0.0006	---	---	---
Ta [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---
Te [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Th [mg/L]	25-Feb-25	16:25	27-Feb-25	08:02	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	26-Feb-25	12:11	27-Feb-25	08:02	---	---	---	< 0.00001	---	---	---

Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	101	100	100	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.47	8.95	8.90	9.27	8.61	8.78	9.08	8.02	8.47	9.73	9.36
Conductivity [uS/cm]	231	169	164	146	236	358	217	230	385	233	149
Alkalinity [mg/L as CaCO3]	83	77	78	51	51	152	62	59	156	84	52
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.27	0.35	0.41	1.21	1.57	1.87	1.49	1.13	0.98	7.73	1.59
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	28	< 20	30	22	40	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	10.1	0.64	2.91	0.16	0.41	20.7	1.00	0.38	34.8	1.05	1.01

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LR Report : **CA11032-FEB25**

Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.051	0.564	0.044	0.244	0.065	0.013	0.231	0.276	0.008	0.349	0.367
As [mg/L]	29.7	1.72	8.52	0.443	1.22	58.9	2.57	1.12	96.1	2.93	2.81
Ba [mg/L]	0.00517	0.00420	0.00178	0.00118	0.00221	0.00606	0.00211	0.00216	0.00737	0.00305	0.00225
Be [mg/L]	0.000007	0.000010	0.000007	0.000013	0.000008	< 0.000007	0.000023	0.000028	< 0.000007	0.000062	0.000044
B [mg/L]	0.139	0.102	0.059	0.113	0.133	0.173	0.105	0.093	0.172	0.207	0.107
Bi [mg/L]	< 0.00001	0.00001	0.00001	< 0.00001	0.00001	0.00002	< 0.00001	0.00004	< 0.00001	0.00006	0.00001
Ca [mg/L]	10.5	2.96	6.11	3.91	13.4	13.8	6.75	12.9	23.7	3.39	4.96
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000008	0.000010	0.000003	0.000003	0.000004
Co [mg/L]	0.000553	0.00113	0.000478	0.000191	0.000177	0.000528	0.000507	0.000806	0.000454	0.000416	0.000298
Cr [mg/L]	0.0116	0.0934	0.0671	0.0438	0.0418	0.00474	0.114	0.0830	0.00295	0.209	0.0838
Cu [mg/L]	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.002	< 0.001
Fe [mg/L]	0.118	0.608	0.125	0.185	0.079	0.079	0.214	0.479	0.049	0.436	0.274
K [mg/L]	10.3	18.9	0.372	7.21	7.48	2.75	9.41	6.51	0.878	32.3	9.58
Li [mg/L]	0.574	1.04	0.0061	2.32	1.20	0.0246	2.93	0.924	0.0176	3.33	1.28
Mg [mg/L]	14.0	4.24	13.8	1.54	6.23	35.1	6.07	4.69	37.8	2.40	1.84
Mn [mg/L]	0.00234	0.00631	0.00159	0.00454	0.00180	0.00098	0.00339	0.00816	0.00165	0.0112	0.00656
Mo [mg/L]	0.0066	0.0005	< 0.0004	0.0009	0.0030	0.0013	0.0097	0.0127	0.0004	0.0008	0.0006
Na [mg/L]	9.34	14.0	8.31	12.4	15.2	13.0	13.2	19.9	10.5	10.6	12.3
Ni [mg/L]	0.0264	0.0077	0.0115	0.0009	0.0025	0.129	0.0042	0.0090	0.369	0.0030	0.0019
P [mg/L]	0.026	0.041	0.012	0.009	0.019	0.009	0.017	0.021	0.022	0.027	0.012
Pb [mg/L]	< 0.00009	0.00013	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00010	0.00046
Sb [mg/L]	3.50	0.276	0.927	0.224	0.0874	3.66	0.242	0.153	6.52	0.325	0.275
Se [mg/L]	0.00058	0.00013	0.00021	0.00024	0.00169	0.00052	0.00034	0.00105	0.00095	0.00092	0.00023
Si [mg/L]	17.8	12.5	16.0	6.33	6.58	22.1	4.06	11.0	24.3	9.79	4.33
Sn [mg/L]	0.00009	0.00016	0.00008	0.00008	0.00006	0.00011	0.00011	0.00011	0.00006	0.00019	0.00015
Sr [mg/L]	0.0272	0.00985	0.0130	0.00661	0.0208	0.0394	0.0155	0.0210	0.112	0.00556	0.00822
Ti [mg/L]	0.0013	0.0193	0.0005	0.0060	0.0030	0.0003	0.0059	0.0109	0.0002	0.0181	0.0042
Tl [mg/L]	0.000156	0.000169	0.000027	0.000049	0.000097	0.000013	0.000158	0.000078	0.000005	0.000712	0.000061
U [mg/L]	0.000500	0.000050	0.000086	0.00119	0.000908	0.000068	0.000737	0.000471	0.000036	0.000521	0.00291
V [mg/L]	0.0401	0.0519	0.0203	0.0881	0.0744	0.00822	0.0488	0.0928	0.00851	0.0910	0.0704
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Au [mg/L]	0.00019	---	---	---	0.00002	---	---	---	0.00010	---	---
Ce [mg/L]	0.00031	---	---	---	0.00004	---	---	---	< 0.00001	---	---
Cs [mg/L]	0.510	---	---	---	0.0653	---	---	---	0.0238	---	---
Dy [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Er [mg/L]	0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

OnLine LIMS

0004033480

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LR Report : **CA11032-FEB25**

Analysis	12: VIS-CV5-UM-311	13: VIS-CV5-UM-312	14: VIS-CV5-UM-313	15: VIS-CV5-UM-314	16: VIS-CV5-UM-315	17: VIS-CV5-UM-316	18: VIS-CV5-UM-317	19: VIS-CV5-UM-318	20: VIS-CV5-UM-319	21: VIS-CV5-UM-320	22: VIS-CV5-UM-321
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	0.0003	---	---	---	0.0014	---	---	---	0.0047	---	---
Gd (tot) [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	0.00017	---	---	---	0.00003	---	---	---	< 0.00001	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	0.00015	---	---	---	0.00002	---	---	---	< 0.00001	---	---
Os (tot) [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	0.00004	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.596	---	---	---	0.217	---	---	---	0.0122	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	0.00002	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sc [mg/L]	0.0005	---	---	---	0.0002	---	---	---	0.0001	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
Sample Date & Time	NA	NA	NA	NA	NA	NA			
Sample weight [g]	101	100	101	100	100	100	100	100	< 0.001
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400
pH [No unit]	9.28	9.07	9.03	9.06	9.11	9.17	8.46	9.04	7.32
Conductivity [uS/cm]	308	184	207	188	226	256	385	252	4
Alkalinity [mg/L as CaCO3]	70	48	61	73	74	92	152	92	2

OnLine LIMS

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LR Report : **CA11032-FEB25**

Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	1.28	1.42	2.56	2.66	3.07	8.83	1.00	9.04	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	42	28	20	< 20	26	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.06	0.13	1.00	1.75	0.28	0.58	34.9	0.57	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00011	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.151	0.089	0.329	0.119	0.266	1.88	0.009	2.10	0.005
As [mg/L]	0.196	0.375	3.02	5.09	0.799	0.320	0.0349	0.313	0.0016
Ba [mg/L]	0.00270	0.00207	0.00248	0.00245	0.00147	0.00223	0.00742	0.00258	0.00013
Be [mg/L]	< 0.000007	0.000010	0.000537	0.000029	0.000050	0.00119	0.000007	0.00149	< 0.000007
B [mg/L]	0.069	0.096	0.115	0.085	0.318	0.317	0.168	0.309	< 0.002
Bi [mg/L]	< 0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	0.00040	< 0.00001	0.00043	< 0.00001
Ca [mg/L]	9.20	8.30	9.09	4.38	6.07	3.22	24.0	3.27	0.02
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000017	< 0.000003	0.000015	0.000007
Co [mg/L]	0.000114	0.000144	0.000843	0.000379	0.000436	0.000208	0.000462	0.000138	0.000010
Cr [mg/L]	0.0888	0.0352	0.0671	0.120	0.00527	0.00162	0.00280	0.00181	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.002	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.001
Fe [mg/L]	0.067	0.109	0.430	0.146	0.408	0.197	0.051	0.198	< 0.007
K [mg/L]	11.9	9.87	5.41	22.9	1.74	21.1	1.13	21.4	0.089
Li [mg/L]	2.30	0.976	0.822	0.907	0.0894	6.25	0.236	6.02	< 0.0001
Mg [mg/L]	13.0	3.23	4.49	6.60	2.15	0.638	37.4	0.643	0.004
Mn [mg/L]	0.00126	0.00256	0.00669	0.00275	0.00318	0.0407	0.00177	0.0441	0.00024
Mo [mg/L]	0.0042	0.0013	0.0028	0.0009	0.0044	0.0036	< 0.0004	0.0040	0.0028
Na [mg/L]	16.8	14.8	23.0	9.61	42.9	18.9	10.3	18.9	0.87
Ni [mg/L]	0.0010	0.0011	0.0062	0.0040	0.0018	0.0006	0.367	0.0006	< 0.0001
P [mg/L]	0.011	0.009	0.039	0.024	0.006	0.472	0.020	0.478	0.014
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00041	0.00032	< 0.00009	0.00032	< 0.00009
Sb [mg/L]	0.229	0.113	0.340	0.411	0.916	0.0908	6.52	0.0860	< 0.0009
Se [mg/L]	0.00068	0.00091	0.00061	0.00012	0.00079	0.00012	0.00082	0.00013	< 0.00004
Si [mg/L]	2.49	5.96	7.74	9.86	6.26	4.73	24.1	5.16	< 0.02
Sn [mg/L]	0.00008	0.00008	0.00029	0.00008	0.00009	0.00174	0.00007	0.00216	0.00009
Sr [mg/L]	0.0209	0.0154	0.0146	0.0123	0.0436	0.00583	0.114	0.00587	0.00008
Ti [mg/L]	0.0015	0.0027	0.0104	0.0023	0.0015	0.0019	0.0003	0.0026	< 0.0001
Tl [mg/L]	0.000147	0.000114	0.000094	0.000426	0.000046	0.000651	< 0.000005	0.000728	< 0.000005

OnLine LIMS

00040334480

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LR Report : **CA11032-FEB25**

Analysis	23: VIS-CV5-UM-322	24: VIS-CV5-UM-323	25: VIS-CV5-UM-324	26: VIS-CV5-UM-325	27: VIS-CV5-UM-326	28: VIS-CV5-SP-343	29: VIS-CV5-UM-319	30: VIS-CV5-SP-343	31:BLK: CTEU Blank
U [mg/L]	0.000144	0.000179	0.00200	0.000044	0.000025	0.0217	0.000036	0.0222	0.000512
V [mg/L]	0.0134	0.0504	0.0704	0.0405	0.0477	0.00555	0.00871	0.00547	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.003	0.002
Au [mg/L]	---	< 0.00001	---	---	---	0.00002	0.00010	0.00004	< 0.00001
Ce [mg/L]	---	0.00005	---	---	---	0.00001	< 0.00001	0.00002	0.00010
Cs [mg/L]	---	0.0525	---	---	---	0.132	0.0230	0.135	1.18
Dy [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Er [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0002	---	---	---	< 0.0001	0.0014	0.0051	0.0014
Gd (tot) [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Ge [mg/L]	---	< 0.0001	---	---	---	0.0003	< 0.0001	0.0004	< 0.0001
Hf [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	---	---	---	0.00001	< 0.00001	< 0.00001	< 0.00001
Ir (tot) [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00003	---	---	---	0.00029	0.00001	0.00002	0.00006
Lu [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	< 0.0001	---	---	---	0.0007	< 0.0001	0.0011	< 0.0001
Nd [mg/L]	---	0.00002	---	---	---	< 0.00001	< 0.00001	0.00001	0.00005
Os (tot) [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Pt [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.188	---	---	---	1.44	0.0122	1.44	2.46
Re [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	0.00001
Sc [mg/L]	---	0.0003	---	---	---	0.0008	0.0001	0.0002	0.0004
Ta [mg/L]	---	< 0.0001	---	---	---	0.0007	< 0.0001	0.0009	< 0.0001
Tb [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	---	---	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	---	---	---	0.0003	< 0.0001	0.0004	0.0005
Tm [mg/L]	---	< 0.00001	---	---	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

00041033480

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Method Descriptions

Parameter	SGS Method Code	CALA	PALA
	NA	N	N
Acidity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

Accreditation Descriptions

CALA:
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Catharine Arnold

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Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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OnLine LIMS

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0324-FEB25													
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA		
Alkalinity - QCBatchID: EWL0324-FEB25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0401-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	99	75	125
Chloride	0.2	mg/L	<0.2			6	20	97	90	110	102	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	100	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			16	20	96	90	110	100	75	125
Anions by IC - QCBatchID: DIO0403-FEB25													
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	96	75	125
Chloride	0.2	mg/L	<0.2			12	20	99	90	110	105	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	102	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	103	75	125
Sulphate	0.2	mg/L	<0.2			15	20	100	90	110	117	75	125
Conductivity - QCBatchID: EWL0324-FEB25													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0328-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0336-FEB25													
Fluoride	0.06	mg/L	<0.06			0	10	102	90	110	100	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0353-FEB25													
Fluoride	0.06	mg/L	<0.06			ND	10	103	90	110	NV	75	125
Inorganics-General - QCBatchID: EHG0035-FEB25													
Mercury	0.00001	mg/L	< 0.00001			17	20	80	80	120	114	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0181-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	101	90	110	95	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			1	20	98	90	110	110	70	130
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	100	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	97	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	111	70	130
Boron	0.002	mg/L	<0.002			1	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	107	70	130
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	97	70	130

OnLine LIMS

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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Chromium	0.00008	mg/L	<0.00008			ND	20	107	90	110	91	70	130
Cobalt	0.000004	mg/L	<0.000004			1	20	99	90	110	79	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	111	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			ND	20	108	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	106	90	110	104	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			0	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	101	90	110	115	70	130
Molybdenum	0.0004	mg/L	<0.0004			2	20	103	90	110	100	70	130
Nickel	0.0001	mg/L	<0.0001			2	20	104	90	110	92	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130
Osmium (total)	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			3	20	104	90	110	93	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			12	20	102	90	110	97	70	130
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	70	70	130
Sodium	0.01	mg/L	<0.01			1	20	106	90	110	104	70	130
Strontium	0.00008	mg/L	<0.00008			0	20	101	90	110	88	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	104	90	110	104	70	130
Tin	0.00006	mg/L	<0.00006			9	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Vanadium	0.00001	mg/L	<0.00001			4	20	100	90	110	106	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0195-FEB25													
Aluminum	0.001	mg/L	<0.001			1	20	100	90	110	83	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	100	90	110	127	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	97	90	110	109	70	130

OnLine LIMS

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Inorganic Analysis														
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				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Barium	0.00008	mg/L	<0.00008			1	20	103	90	110	104	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	102	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	103	90	110	118	70	130
Boron	0.002	mg/L	<0.002			4	20	101	90	110	96	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	101	90	110	114	70	130
Calcium	0.01	mg/L	<0.01			1	20	104	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			8	20	107	90	110	112	70	130
Cobalt	0.000004	mg/L	<0.000004			0	20	99	90	110	108	70	130
Copper	0.001	mg/L	<0.001			ND	20	103	90	110	112	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Gold	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	106	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			0	20	108	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	102	90	110	103	70	130
Lithium	0.0001	mg/L	<0.0001			2	20	102	90	110	112	70	130
Magnesium	0.001	mg/L	<0.001			1	20	108	90	110	100	70	130
Manganese	0.00001	mg/L	<0.00001			5	20	101	90	110	108	70	130
Molybdenum	0.0004	mg/L	<0.0004			ND	20	103	90	110	101	70	130
Nickel	0.0001	mg/L	<0.0001			5	20	104	90	110	102	70	130
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			ND	20	100	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			1	20	101	90	110	112	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Rubidium	0.0001	mg/L	< 0.0001			7	20	95	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	102	90	110	107	70	130
Silicon	0.02	mg/L	<0.02			1	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	79	70	130
Sodium	0.01	mg/L	<0.01			2	20	106	90	110	115	70	130
Strontium	0.00008	mg/L	<0.00008			1	20	101	90	110	92	70	130
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	103	90	110	104	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130

OnLine LIMS

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Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Tin	0.00006	mg/L	<0.00006			11	20	102	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			11	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	100	90	110	108	70	130
Vanadium	0.00001	mg/L	<0.00001			2	20	100	90	110	92	70	130
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	116	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0220-FEB25													
Cerium	0.00001	mg/L	<0.00001			5	20	95	90	110	NV	70	130
Cesium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Dysprosium	0.00001	mg/L	<0.00001			0	20	95	90	110	NV	70	130
Erbium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Europium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Gallium	0.0001	mg/L	<0.0001			2	20	104	90	110	NV	70	130
Holmium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Lanthanum	0.00001	mg/L	<0.00001			4	20	94	90	110	NV	70	130
Lutetium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Neodymium	0.00001	mg/L	<0.00001			6	20	95	90	110	NV	70	130
Praseodymium	0.00001	mg/L	<0.00001			6	20	97	90	110	NV	70	130
Rubidium	0.0001	mg/L	<0.0001			0	20	104	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.00001			6	20	92	90	110	NV	70	130
Scandium	0.0001	mg/L	<0.0001			3	20	98	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	93	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	94	90	110	NV	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0225-FEB25													
Antimony	0.0009	mg/L	<0.0009			ND	20	109	90	110	119	70	130
Iridium (total)	0.00001	mg/L	<0.00001			ND	20	105	90	110	NV	70	130
pH - QCBatchID: EWL0324-FEB25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0162-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	100	90	110	95	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0175-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110	98	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0184-FEB25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	0.5			ND	10	99	90	110	98	75	125

OnLine LIMS

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ABA - Modified Sobek

12-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11128-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	06-Mar-25	17:00	07-Mar-25	10:13	9.71	9.65	9.96	10.35	9.78	9.89
Fizz Rate [rating]	05-Mar-25	15:00	07-Mar-25	10:13	3	3	3	3	3	3
Sample weight [g]	05-Mar-25	13:33	07-Mar-25	10:13	2.00	2.03	2.03	2.02	2.01	2.00
HCl_add [mL]	06-Mar-25	14:00	07-Mar-25	10:13	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	05-Mar-25	15:38	07-Mar-25	10:13	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	05-Mar-25	15:48	07-Mar-25	10:13	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-Mar-25	16:10	07-Mar-25	10:13	12.19	10.96	16.20	18.67	11.32	16.25
Final pH [no unit]	06-Mar-25	16:00	07-Mar-25	10:13	1.45	1.51	1.17	1.08	1.57	1.17
NP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	19.5	22.3	9.4	3.3	21.6	9.4
AP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	1.12	2.34	0.31	0.31	1.31	0.31
Net NP [t CaCO3/1000 t]	06-Mar-25	16:35	07-Mar-25	10:13	18.4	20.0	9.09	2.99	20.3	9.09
NP/AP [ratio]	06-Mar-25	16:35	07-Mar-25	10:13	17.3	9.51	30.1	10.6	16.5	30.1
S [%]	26-Feb-25	09:21	27-Feb-25	09:28	0.099	0.126	0.029	< 0.005	0.078	0.020
Acid Leachable SO4-S [%]	27-Feb-25	09:28	27-Feb-25	09:28	0.06	0.05	< 0.04	< 0.04	< 0.04	< 0.04
Sulphide [%]	27-Feb-25	08:48	27-Feb-25	09:28	0.04	0.08	< 0.01	< 0.01	0.04	< 0.01
C [%]	26-Feb-25	09:21	27-Feb-25	09:28	0.122	0.156	0.065	0.017	0.116	0.058

OnLine LIMS

0004042735

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ABA - Modified Sobek

LR Report : **CA11128-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F
CO3 (HCl) as %CO3 [%]	27-Feb-25	11:36	27-Feb-25	11:46	0.51	0.68	0.16	< 0.04	0.45	0.21

Analysis	11: CV5-FLO-F
Sample Date & Time	NA
Paste pH [no unit]	10.29
Fizz Rate [rating]	3
Sample weight [g]	2.01
HCl_add [mL]	20.00
HCl [Normality]	0.10
NaOH [Normality]	0.10
Vol NaOH to pH=8.3 [mL]	18.48
Final pH [no unit]	1.06
NP [t CaCO3/1000 t]	3.8
AP [t CaCO3/1000 t]	0.31
Net NP [t CaCO3/1000 t]	3.49
NP/AP [ratio]	12.2
S [%]	< 0.005
Acid Leachable SO4-S [%]	< 0.04
Sulphide [%]	< 0.01
C [%]	0.022
CO3 (HCl) as %CO3 [%]	< 0.04

*NP (Neutralization Potential)

$$= 50 \times \frac{(N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP−AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

OnLine LIMS

000404235

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Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

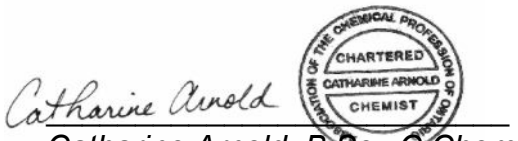
Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

000404273S

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0084-FEB25														
Carbon (total)	0.005	%	<0.005			17	20				100	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				104	70	130	
Carbon/Sulphur - QCBatchID: ECS0086-FEB25														
Carbon (total)	0.005	%	<0.005			6	20				99	70	130	
Sulphur (total)	0.005	%	<0.005			ND	20				102	70	130	
Carbon/Sulphur - QCBatchID: ECS0093-FEB25														
Sulphide	0.01	%	< 0.01			7	20	112	80	120				
Carbon/Sulphur - QCBatchID: ECS0095-FEB25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			7	20	101	80	120				

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000404273S

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03-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11129-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID
Sample Date & Time					NA	NA	NA
Hg [µg/g]	28-Feb-25	11:58	28-Feb-25	10:03	< 0.05	< 0.05	< 0.05
Ag [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.5	< 0.5	< 0.5
Al [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	12000	12000	5600
As [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	300	200	60
B [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	180	190	140
Ba [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	14	17	10
Be [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.68	0.80	1.6
Bi [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.1	0.75	7.1
Ca [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	6400	6600	2200
Cd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.03	0.04	0.12
Co [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	24	23	4.4
Cr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	450	450	160
Cu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	40	43	5.0
Fe [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	15000	15000	5300
K [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1800	2300	1500
Li [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	6	6	6
Mg [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	16000	17000	4700
Mn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	270	260	250
Mo [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.1	0.2	0.3
Na [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	310	300	590
Ni [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	230	230	42
P [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	180	220	360
Pb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.4	0.86	2.5
Sb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	25	21	8.1
Se [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.2	0.1	< 0.1
Sn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 5	< 5	< 5
Sr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	7.9	9.1	4.0
Ti [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	310	350	120
Tl [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	2.3	2.9	1.1

OnLine LMS

0004033448

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11129-FEB25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID
U [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.8	1.7	8.4
V [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	28	26	8
Zn [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	18	21	11
Ce [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	2.46	3.58	2.93
Cs [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	560	650	930
Dy [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.34	0.41	0.43
Er [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.16	0.23	0.11
Eu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.056	0.077	0.041
Ga [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	3.02	3.00	2.87
Gd [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.41	0.46	0.55
Ge [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.4	0.5	< 0.3
Hf [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	0.4
Ho [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.054	0.078	0.046
In [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.01	0.01	0.01
Ir [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
La [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	1.19	1.72	1.43
Lu [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.031	0.033	0.019
Nb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	0.3
Os [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	< 0.1
Pr [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.28	0.43	0.34
Rh [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
Rb [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	261	335	163
Re [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.05	< 0.05	< 0.05
Ru [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	< 0.01
Sm [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.32	0.39	0.47
Sc [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	2.85	2.65	1.17
Ta [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.01	< 0.01	0.02
Tb [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.081	0.081	0.12
Te [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	< 0.1	< 0.1	< 0.1
Th [µg/g]	26-Feb-25	22:35	27-Feb-25	13:15	0.90	0.66	3.3
Tm [µg/g]	26-Feb-25	17:39	27-Feb-25	14:01	0.025	0.032	0.016

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Sample Date & Time	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	2000	10000	5800	2300
As [µg/g]	12	200	51	13
B [µg/g]	27	240	140	30
Ba [µg/g]	1.1	13	12	2.3
Be [µg/g]	1.4	1.0	2.5	1.3
Bi [µg/g]	8.3	2.2	24	8.0

SMT LIMS OnLine

0004033448

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LR Report : **CA11129-FEB25**

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Ca [µg/g]	990	8800	2500	840
Cd [µg/g]	0.06	0.60	0.17	0.04
Co [µg/g]	0.22	16	4.7	0.50
Cr [µg/g]	58	320	170	73
Cu [µg/g]	1.0	39	6.1	1.1
Fe [µg/g]	1000	12000	5600	1500
K [µg/g]	1300	1900	1600	1300
Li [µg/g]	2	14	6	2
Mg [µg/g]	190	12000	5000	520
Mn [µg/g]	59	930	230	59
Mo [µg/g]	0.1	0.2	0.2	0.2
Na [µg/g]	970	350	520	1000
Ni [µg/g]	1.7	150	48	4.2
P [µg/g]	290	1900	490	200
Pb [µg/g]	2.6	2.8	2.8	2.1
Sb [µg/g]	2.8	20	7.2	3.0
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5
Sr [µg/g]	3.9	9.1	3.9	2.8
Ti [µg/g]	6.0	240	120	16
Tl [µg/g]	0.98	2.0	1.2	0.99
U [µg/g]	8.5	9.3	5.8	4.8
V [µg/g]	< 1	19	8	< 1
Zn [µg/g]	2.0	21	16	3.4
Ce [µg/g]	0.59	4.04	2.95	0.64
Cs [µg/g]	76	530	780	89
Dy [µg/g]	0.20	1.63	0.53	0.14
Er [µg/g]	0.027	0.28	0.12	0.027
Eu [µg/g]	0.019	0.072	0.036	0.012
Ga [µg/g]	1.27	4.18	3.28	1.37
Gd [µg/g]	0.32	1.86	0.70	0.20
Ge [µg/g]	< 0.3	0.5	< 0.3	< 0.3
Hf [µg/g]	0.5	0.2	0.4	0.4
Ho [µg/g]	0.017	0.14	0.053	0.013
In [µg/g]	< 0.01	0.02	0.02	< 0.01
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	0.24	1.89	1.46	0.29
Lu [µg/g]	0.005	0.039	0.017	0.005
Nb [µg/g]	0.8	0.2	0.3	0.6
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	0.081	0.48	0.34	0.076
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	150	278	192	149
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01

SMI Online

0004033448

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LR Report : **CA11129-FEB25**

Analysis	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F
Sm [µg/g]	0.24	1.33	0.57	0.18
Sc [µg/g]	0.11	2.33	1.14	0.18
Ta [µg/g]	< 0.01	0.02	0.03	< 0.01
Tb [µg/g]	0.071	0.48	0.16	0.045
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	2.5	4.4	3.0	1.8
Tm [µg/g]	0.005	0.043	0.017	0.004

Method Descriptions

Parameter	SGS Method Code
Mercury by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007
Metals, ICP-MS	ME-CA-[ENV]SPE-LAK-AN-005

Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004033448

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Lakefield - Ontario - K0L 2H0
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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0041-FEB25													
Mercury	0.05	ug/g	<0.05			ND	20	111	80	120	101	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0203-FEB25													
Cerium	0.001	µg/g	<0.01			7	20	101	70	130	NV	70	130
Cesium	0.01	µg/g	<0.01			3	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.01			12	20	102	70	130	NV	70	130
Erbium	0.001	µg/g	<0.01			5	20	101	70	130	NV	70	130
Europium	0.001	µg/g	<0.01			9	20	99	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.01			3	20	100	70	130	NV	70	130
Germanium	0.3	µg/g	<0.0001			ND	20	104	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.0001			5	20	105	70	130	NV	70	130
Holmium	0.001	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Iridium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.01			10	20	98	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.01			ND	20	100	70	130	NV	70	130
Niobium	0.1	µg/g	<0.01			6	20	106	70	130	NV	70	130
Osmium	0.1	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.01			10	20	104	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.0001			ND	20	94	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.0001			ND	20	95	70	130	NV	70	130
Rubidium	0.004	µg/g	<0.0001			ND	20	103	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.0001			ND	20	92	70	130	NV	70	130
Samarium	0.001	µg/g	<0.01			14	20	102	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.0001			1	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			ND	20	104	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0238-FEB25													
Gallium	0.03	µg/g	< 0.03			7	20	93	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	100	70	130			
Metals, ICP-MS - QCBatchID: EMS0203-FEB25													
Aluminum	3	µg/g	<3			3	20	99	70	130	99	70	130
Antimony	0.8	µg/g	<0.8			2	20	103	70	130	NV	70	130
Arsenic	0.5	µg/g	<0.5			6	20	94	70	130	110	70	130
Barium	0.01	µg/g	<0.01			11	20	95	70	130	88	70	130
Beryllium	0.02	µg/g	<0.02			3	20	92	70	130	100	70	130
Bismuth	0.09	µg/g	<0.09			5	20	92	70	130	NV	70	130
Boron	1	µg/g	<1			1	20	97	70	130	NV	70	130

OnLine LIMS

0004033448

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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Quebec MA200-Met 1.2 Digest

LR Report : **CA11129-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Cadmium	0.02	µg/g	<0.02			2	20	95	70	130	114	70	130
Calcium	3	µg/g	<3			2	20	105	70	130	100	70	130
Chromium	0.5	µg/g	<0.5			4	20	97	70	130	102	70	130
Cobalt	0.01	µg/g	<0.01			5	20	92	70	130	85	70	130
Copper	0.1	µg/g	<0.1			4	20	95	70	130	81	70	130
Iron	3	µg/g	<3			2	20	106	70	130	114	70	130
Lead	0.05	µg/g	<0.05			10	20	92	70	130	90	70	130
Lithium	2	µg/g	<2			1	20	97	70	130	73	70	130
Magnesium	3	µg/g	<1			5	20	107	70	130	102	70	130
Manganese	0.1	µg/g	<0.1			5	20	97	70	130	95	70	130
Molybdenum	0.1	µg/g	<0.1			3	20	104	70	130	110	70	130
Nickel	0.1	µg/g	<0.1			12	20	97	70	130	90	70	130
Phosphorus	3	µg/g	<3			6	20	106	70	130	NV	70	130
Potassium	3	µg/g	<3			6	20	104	70	130	92	70	130
Selenium	0.1	µg/g	<0.1			ND	20	93	70	130	NV	70	130
Silver	0.5	µg/g	<0.5			ND	20	93	70	130	83	70	130
Sodium	3	µg/g	<3			9	20	102	70	130	103	70	130
Strontium	0.02	µg/g	<0.02			4	20	97	70	130	93	70	130
Thallium	0.02	µg/g	<0.02			3	20	96	70	130	111	70	130
Thorium	0.01	µg/g	<0.5			2	20	96	70	130	NV	70	130
Tin	5	µg/g	<5			ND	20	105	70	130	101	70	130
Titanium	0.1	µg/g	<0.1			18	20	104	70	130	NV	70	130
Uranium	0.002	µg/g	<0.002			4	20	94	70	130	81	70	130
Vanadium	1	µg/g	<1			ND	20	97	70	130	105	70	130
Zinc	0.7	µg/g	<0.7			4	20	98	70	130	93	70	130

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11131-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-FLO-F	13:BLK: CTEU Blank
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA		
Sample weight [g]	11-Mar-25	16:51	99	100	100	99	100	101	100	100	---
Volume D.I. Water [mL]	11-Mar-25	16:51	400	400	400	400	400	400	400	400	400
Alkalinity [mg/L as CaCO3]	11-Mar-25	14:53	87	82	88	72	71	69	76	76	4
pH [No unit]	11-Mar-25	14:53	9.25	9.29	9.39	9.33	9.16	9.29	9.51	9.47	6.80
Acidity [mg/L as CaCO3]	11-Mar-25	14:53	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	3
Conductivity [uS/cm]	11-Mar-25	14:53	207	199	191	169	177	165	194	194	5
F [mg/L]	11-Mar-25	12:56	2.76	2.76	3.68	1.11	4.17	3.38	1.44	1.46	< 0.06
Cl [mg/L]	11-Mar-25	14:15	< 20	< 20	< 20	< 20	< 20	< 20	24	23	< 20
SO4 [mg/L]	11-Mar-25	14:15	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	11-Mar-25	14:15	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	11-Mar-25	14:15	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	11-Mar-25	14:15	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	13-Mar-25	09:18	4.26	3.92	1.04	1.42	2.14	1.02	1.01	1.02	< 0.03
Hg [mg/L]	12-Mar-25	12:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	12-Mar-25	12:16	< 0.00005	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	0.00012	0.00014	< 0.00005
Al [mg/L]	12-Mar-25	12:16	0.086	0.127	1.23	1.82	0.405	1.69	2.36	2.12	0.001
As [mg/L]	17-Mar-25	13:53	11.7	10.4	1.03	1.68	4.85	1.94	0.946	0.959	< 0.0002
Ba [mg/L]	12-Mar-25	12:16	0.00226	0.00224	0.00228	0.00165	0.00140	0.00342	0.00254	0.00252	0.00303
Be [mg/L]	12-Mar-25	12:16	0.000014	0.000025	0.000604	0.000493	0.000105	0.000904	0.00111	0.000907	< 0.000007
B [mg/L]	12-Mar-25	12:16	0.189	0.170	0.211	0.135	0.475	0.204	0.140	0.133	< 0.002
Bi [mg/L]	12-Mar-25	12:16	0.00002	0.00003	0.00429	0.00324	0.00015	0.00307	0.00370	0.00377	< 0.00001

OnLine LIMS

00040550906

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LR Report : **CA11131-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-MAG-C	6: CV5-MAG-C-DUP	7: CV5-DMS-MID	8: CV5-FLO-C	9: CV5-MAG-F	10: CV5-MID-F	11: CV5-FLO-F	12: CV5-FLO-F	13:BLK: CTEU Blank
Ca [mg/L]	12-Mar-25	12:16	6.93	6.59	1.26	0.91	3.43	2.02	1.14	1.11	0.03
Cd [mg/L]	12-Mar-25	12:16	0.000011	0.000006	0.000028	0.000020	0.000015	0.000025	0.000027	0.000024	0.000026
Co [mg/L]	12-Mar-25	12:16	0.000391	0.000527	0.000361	0.000082	0.000714	0.00116	0.000214	0.000206	0.000032
Cr [mg/L]	12-Mar-25	12:16	0.0910	0.0880	0.0119	0.00395	0.0279	0.0278	0.0104	0.00993	< 0.00008
Cu [mg/L]	12-Mar-25	12:16	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.002	0.002	0.002	< 0.001
Fe [mg/L]	12-Mar-25	12:16	0.113	0.163	0.288	0.086	0.246	0.710	0.245	0.234	< 0.007
K [mg/L]	12-Mar-25	12:17	14.1	14.8	10.9	10.3	23.8	15.4	12.0	11.6	0.236
Li [mg/L]	12-Mar-25	12:17	1.27	1.25	2.37	0.587	2.18	1.71	0.822	0.768	< 0.0001
Mg [mg/L]	12-Mar-25	12:17	10.6	9.95	0.567	0.138	2.90	1.74	0.316	0.293	0.003
Mn [mg/L]	12-Mar-25	12:17	0.00257	0.00378	0.0180	0.0311	0.0150	0.0427	0.0289	0.0280	0.00041
Mo [mg/L]	12-Mar-25	12:17	0.0034	0.0018	0.0157	0.0055	0.0048	0.0026	0.0057	0.0055	0.0005
Na [mg/L]	12-Mar-25	12:17	12.4	13.4	20.3	29.7	11.1	18.3	35.3	35.0	0.91
Ni [mg/L]	12-Mar-25	12:17	0.0057	0.0064	0.0020	0.0004	0.0054	0.0088	0.0011	0.0011	< 0.0001
Pb [mg/L]	12-Mar-25	12:17	< 0.00009	< 0.00009	0.00098	0.00136	0.00026	0.00139	0.00234	0.00233	0.00118
Sb [mg/L]	12-Mar-25	12:17	1.61	1.40	0.343	0.305	0.936	0.434	0.280	0.273	< 0.0009
Se [mg/L]	12-Mar-25	12:17	0.00065	0.00054	0.00013	0.00038	0.00035	0.00014	0.00039	0.00037	< 0.00004
Si [mg/L]	12-Mar-25	12:17	15.6	16.0	6.62	8.22	8.77	9.47	9.12	8.46	< 0.02
Sn [mg/L]	12-Mar-25	12:17	0.00010	0.00011	0.00107	0.00073	0.00143	0.00198	0.00116	0.00097	0.00007
Sr [mg/L]	12-Mar-25	12:17	0.0156	0.0148	0.00317	0.00461	0.00566	0.00469	0.00310	0.00313	0.00112
Ti [mg/L]	12-Mar-25	12:17	0.0019	0.0026	0.0121	0.0014	0.0054	0.0195	0.0052	0.0047	0.0002
Tl [mg/L]	12-Mar-25	12:17	0.000168	0.000185	0.000462	0.00165	0.000345	0.000516	0.00269	0.00267	< 0.000005
U [mg/L]	12-Mar-25	12:17	0.00644	0.00628	0.0615	0.156	0.0210	0.0242	0.132	0.135	0.000004
V [mg/L]	12-Mar-25	12:17	0.0660	0.0647	0.0244	0.00312	0.0422	0.0278	0.00815	0.00807	0.00001
Zn [mg/L]	12-Mar-25	12:17	< 0.002	< 0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Ce [mg/L]	17-Mar-25	13:53	0.00002	0.00003	0.00052	0.00027	0.00008	0.00072	0.00046	0.00047	0.00005
Cs [mg/L]	12-Mar-25	12:17	0.472	0.481	0.117	0.0415	0.322	0.171	0.0545	0.0536	< 0.0001
Dy [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00008	0.00007	0.00002	0.00009	0.00009	0.00010	< 0.00001
Er [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00002	0.00001	< 0.00001	0.00003	0.00002	0.00002	< 0.00001
Eu [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00001	< 0.00001	< 0.00001
Ga [mg/L]	17-Mar-25	13:53	0.0002	0.0002	0.0247	0.0253	0.0022	0.0071	0.0277	0.0268	< 0.0001
Gd (tot) [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00010	0.00011	0.00003	0.00013	0.00015	0.00017	< 0.00001
Ge [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0003	0.0012	0.0002	0.0003	0.0011	0.0011	< 0.0001
Hf [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0002	0.0001	< 0.0001	0.0003	0.0002	0.0003	< 0.0001
Ho [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
In [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	17-Mar-25	13:53	0.00011	0.00010	0.00026	0.00014	0.00009	0.00036	0.00022	0.00022	0.00002
Lu [mg/L]	17-Mar-25	13:53	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	12-Mar-25	12:17	0.0001	0.0001	0.0011	0.0027	0.0011	0.0022	0.0031	0.0034	< 0.0001

OnLine LIMS

00040550006

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Os [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00007	0.00004	0.00001	0.00009	0.00006	0.00006	< 0.00001
Rh [mg/L]	12-Mar-25	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	12-Mar-25	12:17	0.834	0.871	0.734	0.496	1.67	0.931	0.589	0.591	< 0.0001
Re [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	12-Mar-25	12:17	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00009	0.00010	0.00002	0.00012	0.00014	0.00014	< 0.00001
Sc [mg/L]	17-Mar-25	13:53	0.0006	0.0006	0.0004	0.0004	0.0004	0.0007	0.0004	0.0005	< 0.0001
Ta [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0004	0.0005	0.0004	0.0009	0.0004	0.0006	< 0.0001
Tb [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001	0.00002	0.00003	0.00003	< 0.00001
Te [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	12-Mar-25	12:17	< 0.0001	< 0.0001	0.0006	0.0005	0.0001	0.0011	0.0014	0.0014	< 0.0001
Tm [mg/L]	17-Mar-25	13:53	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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LR Report : **CA11131-FEB25**

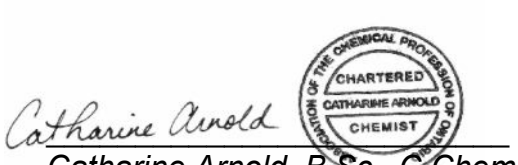
Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:

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Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

00004055006

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0162-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0162-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	109	80	120	NA		
Anions by IC - QCBatchID: DIO0192-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	95	75	125
Chloride	0.2	mg/L	<0.2			14	20	102	90	110	106	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	102	90	110	105	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	106	75	125
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	95	75	125
Conductivity - QCBatchID: EWL0162-MAR25													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0175-MAR25													
Fluoride	0.06	mg/L	<0.06			2	10	98	90	110	97	75	125
Inorganics-General - QCBatchID: EHG0015-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	116	80	120	119	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0069-MAR25													
Aluminum	0.001	mg/L	<0.001			5	20	102	90	110	113	70	130
Antimony	0.0009	mg/L	<0.0009			12	20	106	90	110	96	70	130
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	102	70	130
Barium	0.00008	mg/L	<0.00008			0	20	100	90	110	79	70	130
Beryllium	0.000007	mg/L	<0.000007			17	20	103	90	110	104	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	97	90	110	91	70	130
Boron	0.002	mg/L	<0.002			2	20	97	90	110	98	70	130
Cadmium	0.000003	mg/L	<0.000003			18	20	103	90	110	96	70	130
Calcium	0.01	mg/L	<0.01			5	20	100	90	110	101	70	130
Cesium	0.0001	mg/L	<0.0001			3	20	104	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			4	20	100	90	110	86	70	130
Cobalt	0.000004	mg/L	<0.000004			6	20	98	90	110	97	70	130
Copper	0.001	mg/L	<0.001			5	20	101	90	110	83	70	130
Germanium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			10	20	102	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			6	20	98	90	110	93	70	130
Lithium	0.0001	mg/L	<0.0001			7	20	103	90	110	99	70	130
Magnesium	0.001	mg/L	<0.001			3	20	103	90	110	99	70	130

OnLine LIMS

0000405006

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Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : **CA11131-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Manganese	0.00001	mg/L	<0.00001			7	20	102	90	110	88	70	130	
Molybdenum	0.0004	mg/L	<0.0004			2	20	100	90	110	81	70	130	
Nickel	0.0001	mg/L	<0.0001			13	20	102	90	110	102	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			7	20	101	90	110	92	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Rubidium	0.0001	mg/L	< 0.0001			5	20	98	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			7	20	99	90	110	100	70	130	
Silicon	0.02	mg/L	<0.02			2	20	97	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			3	20	98	90	110	88	70	130	
Sodium	0.01	mg/L	<0.01			4	20	97	90	110	95	70	130	
Strontium	0.00008	mg/L	<0.00008			4	20	101	90	110	85	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			1	20	97	90	110	95	70	130	
Thorium	0.0001	mg/L	<0.0001			12	20	91	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			5	20	97	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			9	20	101	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			2	20	102	90	110	101	70	130	
Vanadium	0.00001	mg/L	<0.00001			3	20	101	90	110	78	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	102	90	110	98	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0082-MAR25														
Arsenic	0.0002	mg/L	<0.0002			ND	20	100	90	110	103	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0116-MAR25														
Cerium	0.00001	mg/L	<0.00001			0	20	100	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			1	20	100	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			5	20	101	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			5	20	99	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	

OnLine LIMS

00004050906

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Scandium	0.0001	mg/L	<0.0001			11	20	94	90	110	NV	70	130
Terbium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130
pH - QCBatchID: EWL0162-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0083-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			4	10	95	90	110	107	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0094-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	97	90	110	70	75	125

OnLine LIMS

00040550906

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ABA - Modified Sobek

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11132-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Sample Date & Time					NA	NA	NA	NA	NA	NA
Paste pH [no unit]	07-Mar-25	13:16	11-Mar-25	16:45	10.32	9.97	9.83	10.00	10.11	10.44
Fizz Rate [rating]	10-Mar-25	07:09	11-Mar-25	16:45	2	2	2	2	2	2
Sample weight [g]	07-Mar-25	07:39	11-Mar-25	16:45	1.99	2.01	2.03	2.00	1.98	2.01
HCl_add [mL]	11-Mar-25	06:36	11-Mar-25	16:45	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	10-Mar-25	08:37	11-Mar-25	16:45	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	10-Mar-25	08:37	11-Mar-25	16:45	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11-Mar-25	13:51	11-Mar-25	16:45	18.72	17.04	11.71	15.97	16.41	18.62
Final pH [no unit]	11-Mar-25	08:36	11-Mar-25	16:45	1.16	1.34	1.34	1.10	1.26	1.12
NP [t CaCO3/1000 t]	11-Mar-25	13:51	11-Mar-25	16:45	3.2	7.4	20.4	10.1	9.1	3.4
AP [t CaCO3/1000 t]	12-Mar-25	13:23	12-Mar-25	13:23	0.31	0.53	2.09	0.38	0.31	0.31
Net NP [t CaCO3/1000 t]	12-Mar-25	13:23	12-Mar-25	13:23	2.89	6.87	18.3	9.72	8.79	3.09
NP/AP [ratio]	12-Mar-25	13:23	12-Mar-25	13:23	10.3	13.9	9.74	26.9	29.4	11.0
S [%]	06-Mar-25	12:49	12-Mar-25	13:23	< 0.005	0.020	0.135	0.032	0.017	< 0.005
Acid Leachable SO4-S [%]	12-Mar-25	13:23	12-Mar-25	13:23	<0.04	< 0.04	0.07	< 0.04	<0.04	<0.04
Sulphide [%]	12-Mar-25	12:28	12-Mar-25	13:23	< 0.01	0.02	0.07	0.01	< 0.01	< 0.01
C [%]	06-Mar-25	12:49	12-Mar-25	13:23	0.017	0.042	0.141	0.141	0.058	0.015

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
CO3 (HCl) as %CO3 [%]	24-Mar-25	15:17	25-Mar-25	09:08	0.05	0.17	0.66	0.25	0.14	< 0.04

Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	NA	NA
Paste pH [no unit]	10.05	9.84	10.16	10.16
Fizz Rate [rating]	2	3	2	2
Sample weight [g]	1.98	2.01	2.02	2.01
HCl_add [mL]	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17.34	13.13	16.32	16.97
Final pH [no unit]	1.30	1.08	1.06	1.12
NP [t CaCO3/1000 t]	6.7	17.1	9.1	7.5
AP [t CaCO3/1000 t]	0.38	1.44	0.44	0.31
Net NP [t CaCO3/1000 t]	6.32	15.7	8.66	7.19
NP/AP [ratio]	17.9	11.9	20.8	24.2
S [%]	0.024	0.101	0.029	0.009
Acid Leachable SO4-S [%]	< 0.04	0.06	< 0.04	<0.04
Sulphide [%]	0.01	0.05	0.01	< 0.01
C [%]	0.040	0.114	0.071	0.031
CO3 (HCl) as %CO3 [%]	0.06	0.43	0.12	< 0.04

*NP (Neutralization Potential)

$$= \frac{50 \times (\text{N of HCL} \times \text{Total HCL added} - \text{N NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP−AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

OnLine LIMS

0004059621

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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL		N	N
	mL	NA	N	N
	no unit	NA	N	N
	Normality	NA	N	N
	rating	NA	N	N
	ratio	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	N
Acid Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	N
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-019	Y	Y
Carbon/Sulphur	%	ME-CA-[ENV]ARD-LAK-AN-020	Y	N
Neutralization Potential	t CaCO3/1000 t	ME-CA-[ENV]ARD-LAK-AN-001/003	N	Y
Paste pH	no unit	ME-CA-[ENV]ARD-LAK-AN-005	Y	N

Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
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Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD — ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Carbon/Sulphur - QCBatchID: ECS0021-MAR25														
Carbon (total)	0.005	%	<0.005			19	20				98	70	130	
Sulphur (total)	0.005	%	<0.005			0	20				106	70	130	
Carbon/Sulphur - QCBatchID: ECS0039-MAR25														
Sulphide	0.01	%	< 0.01			ND	20	113	80	120				
Carbon/Sulphur - QCBatchID: ECS0041-MAR25														
Carbonate (HCl) as %CO3	0.04	%	< 0.04			ND	20	100	80	120				
Carbon/Sulphur - QCBatchID: ECS0074-MAR25														
Carbonate (HCl) as %CO3	0.04	%	<0.04			18	20	4	80	120				

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0004059621

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2000 FAX: 705-652-6365

24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 February 2025
LR Report: **CA11133-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Sample Date & Time					NA	NA	NA	NA	NA	NA
Hg [ug/g]	13-Mar-25	13:02	13-Mar-25	12:48	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	14-Mar-25	00:01	16-Mar-25	21:14	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Mar-25	00:01	16-Mar-25	21:14	2000	5000	11000	4600	3800	1700
As [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	12	67	160	81	63	7.1
B [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	2	4	6	5	3	2
Ba [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	1.5	17	11	9.1	6.9	1.1
Be [µg/g]	14-Mar-25	00:01	16-Mar-25	21:16	1.4	2.2	0.93	1.8	1.1	1.1
Bi [µg/g]	14-Mar-25	00:01	19-Mar-25	09:52	7.1	5.2	1.9	13	14	11
Ca [µg/g]	14-Mar-25	00:01	16-Mar-25	21:17	730	1600	5600	2400	1800	680
Cd [µg/g]	14-Mar-25	00:01	16-Mar-25	21:17	0.05	0.09	0.03	0.16	0.13	0.07
Co [µg/g]	14-Mar-25	00:01	16-Mar-25	21:18	0.30	5.7	24	7.4	5.8	0.26
Cr [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	72	140	390	170	160	62
Cu [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	34	10	50	12	7.2	1.5
Fe [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1100	6600	13000	5200	4300	1000
K [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1200	1400	1700	1100	1100	1000
Li [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	28	140	180	120	90	21

OnLine LIMS

0004055012

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Phone: 705-652-2000 FAX: 705-652-6365

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP
Mg [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	210	4300	14000	4600	4100	160
Mn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	54	190	250	230	180	50
Mo [µg/g]	14-Mar-25	00:01	16-Mar-25	21:19	1.8	2.2	0.9	1.2	1.6	1.7
Na [µg/g]	14-Mar-25	00:01	17-Mar-25	10:20	820	400	290	470	470	740
Ni [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	2.7	39	220	60	53	1.5
P [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	220	280	170	480	350	230
Pb [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	2.7	2.6	1.7	5.6	3.2	3.1
Sb [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	2.7	6.7	25	7.4	9.2	2.4
Se [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1
Sn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:21	< 5	< 5	< 5	< 5	< 5	< 5
Sr [µg/g]	14-Mar-25	00:01	16-Mar-25	21:22	2.6	4.2	7.8	4.5	3.6	2.4
Ti [µg/g]	14-Mar-25	00:01	16-Mar-25	21:22	6.8	150	290	99	81	8.7
Tl [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	1.00	0.87	1.9	1.1	0.98	0.76
U [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	5.8	7.2	2.2	10	5.9	4.9
V [µg/g]	14-Mar-25	00:01	16-Mar-25	21:23	< 1	9	23	8	6	< 1
Zn [µg/g]	14-Mar-25	00:01	16-Mar-25	21:24	3.9	15	19	16	9.9	2.4
Ce [µg/g]	14-Mar-25	00:01	16-Mar-25	21:24	0.66	3.73	3.41	9.38	1.90	0.58
Cs [µg/g]	14-Mar-25	00:01	19-Mar-25	09:53	47	430	470	550	170	20
Dy [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.20	0.46	0.33	0.61	0.45	0.20
Er [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.046	0.14	0.16	0.13	0.089	0.024
Eu [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.022	0.058	0.066	0.058	0.026	0.012
Ga [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	1	3	3	2	2	0.93
Gd [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.30	0.60	0.41	0.99	0.56	0.28
Ge [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.3	< 0.3	0.3	< 0.3	< 0.3	< 0.3
Hf [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.4	0.7	0.1	0.7	0.3	0.3
Ho [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	0.020	0.058	0.057	0.057	0.042	0.014
In [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.01	0.02	0.01	0.01	0.01	< 0.01
Ir [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	0.29	1.85	1.50	4.73	0.96	0.24
Lu [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	0.004	0.014	0.085	0.069	0.083	< 0.001
Nb [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	0.6	0.3	< 0.1	0.4	0.2	0.6

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Os [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	0.086	0.42	0.39	1.03	0.22	0.072
Rh [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	140	130	230	150	130	110
Re [µg/g]	14-Mar-25	00:01	16-Mar-25	21:25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	18-Mar-25	21:19	19-Mar-25	09:51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.21	0.44	0.32	0.79	0.40	0.19
Sc [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.07	1.23	2.25	0.86	0.78	0.06
Ta [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	< 0.01	0.03	< 0.01	0.04	< 0.01	< 0.01
Tb [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.053	0.10	0.060	0.16	0.12	0.055
Te [µg/g]	14-Mar-25	00:01	16-Mar-25	21:26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	14-Mar-25	00:01	19-Mar-25	09:51	2.5	4.7	3.1	5.5	2.0	1.8
Tm [µg/g]	14-Mar-25	14:17	19-Mar-25	09:51	0.005	0.017	0.022	0.013	0.012	0.003

Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	NA	NA
Hg [ug/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	4500	11000	4500	4100
As [µg/g]	36	230	80	36
B [µg/g]	4	3	5	3
Ba [µg/g]	16	16	9.8	6.0
Be [µg/g]	2.5	0.91	1.8	1.1
Bi [µg/g]	8.9	0.58	12	7.6
Ca [µg/g]	1600	4700	2400	1600
Cd [µg/g]	0.12	0.05	0.19	0.09
Co [µg/g]	3.4	27	7.5	4.1
Cr [µg/g]	110	470	160	140

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Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Cu [µg/g]	6.6	43	9.1	3.9
Fe [µg/g]	5000	14000	5200	4000
K [µg/g]	1500	2300	1100	1200
Li [µg/g]	140	220	120	80
Mg [µg/g]	2700	16000	4600	3600
Mn [µg/g]	170	230	240	130
Mo [µg/g]	2.2	1.0	1.3	1.7
Na [µg/g]	500	250	490	690
Ni [µg/g]	25	290	62	37
P [µg/g]	300	190	490	270
Pb [µg/g]	3.3	1.0	5.5	2.0
Sb [µg/g]	5.2	29	7.7	6.7
Se [µg/g]	< 0.1	0.1	< 0.1	< 0.1
Sn [µg/g]	< 5	< 5	< 5	< 5
Sr [µg/g]	3.0	5.9	4.9	3.3
Ti [µg/g]	130	300	95	96
Tl [µg/g]	0.94	2.5	1.1	1.3
U [µg/g]	4.7	1.4	9.6	5.2
V [µg/g]	6	26	8	6
Zn [µg/g]	13	21	14	12
Ce [µg/g]	3.14	2.26	10.0	1.91
Cs [µg/g]	380	690	570	1100
Dy [µg/g]	0.40	0.29	0.59	0.30
Er [µg/g]	0.10	0.13	0.11	0.074
Eu [µg/g]	0.046	0.048	0.059	0.034
Ga [µg/g]	3	3	2	2
Gd [µg/g]	0.52	0.32	0.92	0.41
Ge [µg/g]	< 0.3	0.4	0.3	< 0.3
Hf [µg/g]	0.5	< 0.1	0.7	0.5
Ho [µg/g]	0.043	0.046	0.053	0.031
In [µg/g]	0.01	0.01	0.01	< 0.01

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LR Report : **CA11133-FEB25**

Analysis	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP
Ir [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
La [µg/g]	1.60	1.06	5.18	0.93
Lu [µg/g]	0.011	0.079	0.069	0.088
Nb [µg/g]	0.4	< 0.1	0.2	0.1
Os [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Pr [µg/g]	0.35	0.26	1.08	0.22
Rh [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Rb [µg/g]	150	360	140	150
Re [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05
Ru [µg/g]	< 0.01	< 0.01	< 0.01	< 0.01
Sm [µg/g]	0.43	0.25	0.79	0.28
Sc [µg/g]	0.86	2.60	0.85	0.61
Ta [µg/g]	0.03	< 0.01	0.05	0.02
Tb [µg/g]	0.095	0.053	0.16	0.071
Te [µg/g]	< 0.1	< 0.1	< 0.1	< 0.1
Th [µg/g]	3.5	0.77	4.6	1.8
Tm [µg/g]	0.013	0.018	0.014	0.008

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
Mercury by CVAAS	ug/g	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals - Microwave/ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-007	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	N
Metals, ICP-MS	µg/g	ME-CA-[ENV]SPE-LAK-AN-005	Y	Y

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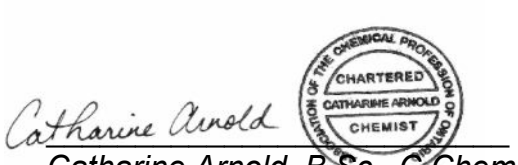
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Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



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Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Mercury by CVAAS - QCBatchID: EHG0019-MAR25													
Mercury	0.05	ug/g	<0.05			ND	20	103	80	120	99	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0097-MAR25													
Cerium	0.001	µg/g	<0.001			1	20	102	70	130	NV	70	130
Dysprosium	0.001	µg/g	<0.001			2	20	105	70	130	NV	70	130
Erbium	0.001	µg/g	<0.001			1	20	107	70	130	NV	70	130
Europium	0.001	µg/g	<0.001			3	20	105	70	130	NV	70	130
Gadolinium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Hafnium	0.1	µg/g	<0.1			ND	20	92	70	130	NV	70	130
Holmium	0.001	µg/g	<0.001			0	20	105	70	130	NV	70	130
Iridium	0.01	µg/g	<0.01			ND	20	102	70	130	NV	70	130
Lanthanum	0.001	µg/g	<0.001			0	20	102	70	130	NV	70	130
Lutetium	0.001	µg/g	<0.001			8	20	104	70	130	NV	70	130
Niobium	0.1	µg/g	<0.1			ND	20	96	70	130	NV	70	130
Osmium	0.1	µg/g	<0.1			ND	20	105	70	130	NV	70	130
Praseodymium	0.001	µg/g	<0.001			3	20	102	70	130	NV	70	130
Rhenium	0.05	µg/g	<0.05			ND	20	105	70	130	NV	70	130
Tantalum	0.01	µg/g	<0.01			ND	20	107	70	130	NV	70	130
Tellurium	0.1	µg/g	<0.01			1	20	102	70	130	NV	70	130
Metals - Microwave/ICP-MS - QCBatchID: EMS0121-MAR25													
Gallium	0.03	µg/g	< 0.03			1	20	100	70	130			
Indium	0.01	µg/g	< 0.01			ND	20	101	70	130			
Lutetium	0.001	µg/g	< 0.001			4	20	101	70	130			
Rubidium	0.004	µg/g	< 0.004			2	20	100	70	130			
Samarium	0.001	µg/g	< 0.001			6	20	100	70	130			
Scandium	0.03	µg/g	< 0.03			1	20	99	70	130			
Terbium	0.001	µg/g	< 0.001			2	20	101	70	130			
Thulium	0.001	µg/g	< 0.001			6	20	99	70	130			
Metals - Microwave/ICP-MS - QCBatchID: EMS0141-MAR25													
Cesium	0.01	µg/g	<0.001			9	20	107	70	130	NV	70	130
Germanium	0.3	µg/g	<0.001			0	20	97	70	130	NV	70	130
Rhodium	0.01	µg/g	<0.001			ND	20	95	70	130	NV	70	130
Ruthenium	0.01	µg/g	<0.001			1	20	97	70	130	NV	70	130
Metals, ICP-MS - QCBatchID: EMS0097-MAR25													
Aluminum	3	µg/g	<3			0	20	104	70	130	92	70	130
Antimony	0.8	µg/g	<0.8			3	20	98	70	130	NV	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Arsenic	0.5	µg/g	<0.5			12	20	101	70	130	96	70	130	
Barium	0.01	µg/g	<0.01			0	20	101	70	130	88	70	130	
Beryllium	0.02	µg/g	<0.02			7	20	105	70	130	106	70	130	
Bismuth	0.09	µg/g	<0.09			1	20	93	70	130	NV	70	130	
Boron	1	µg/g	<1			2	20	94	70	130	NV	70	130	
Cadmium	0.02	µg/g	<0.02			ND	20	106	70	130	100	70	130	
Calcium	3	µg/g	<3			1	20	95	70	130	87	70	130	
Chromium	0.5	µg/g	<0.5			1	20	101	70	130	102	70	130	
Cobalt	0.01	µg/g	<0.01			5	20	100	70	130	91	70	130	
Copper	0.1	µg/g	<0.1			0	20	99	70	130	85	70	130	
Iron	3	µg/g	<3			0	20	102	70	130	109	70	130	
Lead	0.05	µg/g	<0.05			8	20	103	70	130	101	70	130	
Lithium	2	µg/g	<2			4	20	102	70	130	101	70	130	
Magnesium	3	µg/g	<1			0	20	105	70	130	98	70	130	
Manganese	0.1	µg/g	<0.1			1	20	102	70	130	93	70	130	
Molybdenum	0.1	µg/g	<0.1			3	20	99	70	130	111	70	130	
Nickel	0.1	µg/g	<0.1			0	20	101	70	130	95	70	130	
Phosphorus	3	µg/g	<3			3	20	97	70	130	NV	70	130	
Potassium	3	µg/g	<3			0	20	97	70	130	83	70	130	
Selenium	0.1	µg/g	<0.1			6	20	106	70	130	NV	70	130	
Silver	0.5	µg/g	<0.5			ND	20	109	70	130	112	70	130	
Sodium	3	µg/g	<3			0	20	105	70	130	91	70	130	
Strontium	0.02	µg/g	<0.02			3	20	99	70	130	90	70	130	
Thallium	0.02	µg/g	<0.02			3	20	97	70	130	105	70	130	
Thorium	0.01	µg/g	<0.5			6	20	106	70	130	NV	70	130	
Tin	5	µg/g	<5			ND	20	102	70	130	112	70	130	
Titanium	0.1	µg/g	<0.1			2	20	96	70	130	NV	70	130	
Uranium	0.002	µg/g	<0.002			2	20	106	70	130	87	70	130	
Vanadium	1	µg/g	<1			1	20	97	70	130	102	70	130	
Zinc	0.7	µg/g	<0.7			1	20	104	70	130	94	70	130	
Metals, ICP-MS - QCBatchID: EMS0121-MAR25														
Thorium	0.01	µg/g	< 0.5			ND	20	96	70	130				
Metals, ICP-MS - QCBatchID: EMS0141-MAR25														
Antimony	0.8	µg/g	<0.8			8	20	104	70	130	NV	70	130	
Arsenic	0.5	µg/g	<0.5			6	20	101	70	130	88	70	130	
Barium	0.01	µg/g	<0.01			4	20	100	70	130	75	70	130	
Bismuth	0.09	µg/g	<0.09			16	20	93	70	130	NV	70	130	
Boron	1	µg/g	<1			5	20	103	70	130	NV	70	130	
Chromium	0.5	µg/g	<0.5			8	20	98	70	130	90	70	130	

OnLine LIMS

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Quebec MA200-Met 1.2 Digest

LR Report : **CA11133-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Copper	0.1	µg/g	<0.1			7	20	95	70	130	74	70	130
Nickel	0.1	µg/g	<0.1			7	20	95	70	130	82	70	130
Phosphorus	3	µg/g	<3			4	20	105	70	130	NV	70	130
Thallium	0.02	µg/g	<0.02			11	20	93	70	130	103	70	130
Uranium	0.002	µg/g	<0.002			7	20	95	70	130	73	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

27-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 18 February 2025
LR Report: **CA11134-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	11-Mar-25	08:41	21	20	20	19	20	20	20	20
Ext Fluid [#1 or #2]	11-Mar-25	08:41	1	1	1	1	1	1	1	1
Ext Volume [mL]	11-Mar-25	08:41	400	400	400	400	400	400	400	400
pH [No unit]	12-Mar-25	15:38	7.52	7.70	8.61	8.33	7.91	7.85	9.29	8.68
Conductivity [uS/cm]	12-Mar-25	15:38	27	24	64	67	56	46	60	61
Alkalinity [mg/L as CaCO3]	12-Mar-25	15:38	8	7	25	27	24	14	26	25
Acidity [mg/L as CaCO3]	12-Mar-25	15:38	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	14-Mar-25	08:29	< 0.06	0.06	0.13	0.15	0.10	< 0.06	0.14	0.15
Br [mg/L]	12-Mar-25	14:16	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	12-Mar-25	14:16	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	12-Mar-25	14:16	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	12-Mar-25	14:16	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	12-Mar-25	14:16	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	12-Mar-25	10:11	< 0.03	< 0.03	< 0.03	0.05	< 0.03	0.03	0.04	0.06
Hg [mg/L]	12-Mar-25	12:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	17-Mar-25	14:10	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Al [mg/L]	25-Mar-25	08:30	0.140	0.215	0.150	0.530	0.549	0.511	0.657	0.167
As [mg/L]	25-Mar-25	08:30	0.0188	0.0665	0.182	0.154	0.0950	0.0281	0.0754	0.204
Ba [mg/L]	25-Mar-25	08:30	0.00034	0.00029	0.00054	0.00134	0.00113	0.00051	0.00088	0.00064
Be [mg/L]	25-Mar-25	08:30	0.000028	0.000062	< 0.000007	0.000325	0.000158	0.000150	0.000207	< 0.000007
B [mg/L]	25-Mar-25	08:30	0.003	0.006	0.027	0.033	0.032	0.044	0.032	0.038
Bi [mg/L]	25-Mar-25	08:30	0.00015	0.00003	< 0.00001	0.00091	0.00015	0.00026	0.00018	< 0.00001
Ca [mg/L]	25-Mar-25	08:30	2.38	1.64	4.88	5.63	3.82	1.29	5.20	5.52
Cd [mg/L]	25-Mar-25	08:30	0.000009	0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	25-Mar-25	08:30	0.000060	0.000054	0.000057	0.000192	0.000150	0.000014	0.000088	0.000025
Cr [mg/L]	25-Mar-25	08:30	0.00010	0.00023	0.00115	0.00146	0.00125	0.00008	0.00112	0.00052
Cu [mg/L]	25-Mar-25	08:30	0.002	< 0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001
Fe [mg/L]	25-Mar-25	08:30	< 0.007	0.013	0.060	0.083	0.081	0.012	0.058	0.023
K [mg/L]	25-Mar-25	08:30	1.13	1.03	0.794	0.848	0.887	1.14	1.00	0.964
Li [mg/L]	25-Mar-25	08:30	0.0239	0.0438	0.0490	0.0894	0.0377	0.0195	0.0692	0.0476
Mg [mg/L]	25-Mar-25	08:30	0.133	0.415	1.06	0.504	0.668	0.094	0.504	1.03
Mn [mg/L]	25-Mar-25	08:30	0.03899	0.01231	0.00180	0.01024	0.00677	0.00484	0.00617	0.00080
Mo [mg/L]	25-Mar-25	08:30	0.0039	0.0005	< 0.0004	0.0013	0.0046	< 0.0004	< 0.0004	0.0030
Na [mg/L]	25-Mar-25	08:30	1.36	1.44	4.98	6.12	5.61	6.71	5.62	4.68
Ni [mg/L]	25-Mar-25	08:30	0.0003	0.0007	0.0006	0.0020	0.0020	< 0.0001	0.0008	0.0003
Pb [mg/L]	25-Mar-25	08:30	< 0.00009	< 0.00009	< 0.00009	0.00048	0.00022	0.00024	0.00010	< 0.00009
Sb [mg/L]	25-Mar-25	08:30	0.0079	0.0472	0.0424	0.0366	0.0160	0.0081	0.0109	0.0395
Se [mg/L]	25-Mar-25	08:30	< 0.00004	< 0.00004	< 0.00004	0.00009	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	25-Mar-25	08:30	0.82	1.07	2.78	2.45	2.46	2.11	2.60	2.52
Sn [mg/L]	25-Mar-25	08:30	0.00014	0.00011	0.00012	0.00045	0.00045	0.00027	0.00043	< 0.00006
Sr [mg/L]	25-Mar-25	08:30	0.00467	0.00298	0.00667	0.0118	0.00520	0.00212	0.00578	0.00907
Ti [mg/L]	25-Mar-25	08:30	0.0002	0.0007	0.0012	0.0023	0.0022	0.0004	0.0017	0.0005
Tl [mg/L]	25-Mar-25	08:30	0.000149	0.000110	0.000026	0.000087	0.000104	0.000184	0.000091	0.000013
U [mg/L]	25-Mar-25	08:30	0.00128	0.000057	0.000152	0.00333	0.000396	0.000901	0.000439	0.000038
V [mg/L]	25-Mar-25	08:31	0.00038	0.00061	0.00327	0.00125	0.00084	0.00023	0.00086	0.00302
Zn [mg/L]	17-Mar-25	14:04	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Ce [mg/L]	25-Mar-25	08:31	0.00002	< 0.00001	< 0.00001	0.00017	0.00008	0.00005	0.00004	< 0.00001

OnLine LIMS

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0) 20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Cs [mg/L]	25-Mar-25	08:31	0.0099	0.0263	0.0690	0.0453	0.0146	0.0059	0.0249	0.0602
Dy [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Er [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	17-Mar-25	14:04	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	25-Mar-25	08:31	0.0006	0.0009	0.0004	0.0008	0.0009	0.0008	0.0016	0.0004
Gd (tot) [mg/L]	17-Mar-25	14:03	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00001	0.00001	< 0.00001	< 0.00001
Ge [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	17-Mar-25	14:03	< 0.00001	< 0.00001	< 0.00001	0.00009	0.00004	0.00002	0.00002	< 0.00001
Lu [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	25-Mar-25	08:31	< 0.0001	< 0.0001	< 0.0001	0.0009	0.0002	0.0004	0.0003	< 0.0001
Os [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rh [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	25-Mar-25	08:31	0.0742	0.0692	0.0547	0.0456	0.0483	0.0683	0.0609	0.0552
Re [mg/L]	17-Mar-25	14:02	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	17-Mar-25	14:02	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	17-Mar-25	14:01	< 0.00001	< 0.00001	< 0.00001	0.00004	0.00001	0.00001	< 0.00001	< 0.00001
Sc [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	0.0001	0.0001	0.0001	< 0.0001	0.0001	0.0001
Ta [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	0.0008	0.0002	0.0002	0.0002	< 0.0001
Tb [mg/L]	17-Mar-25	14:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	17-Mar-25	14:01	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	0.0001	< 0.0001	< 0.0001
Tm [mg/L]	17-Mar-25	14:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Sample Date & Time	NA	NA		
Sample weight [g]	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1
Ext Volume [mL]	400	400	400	400
pH [No unit]	7.89	8.11	7.99	4.86
Conductivity [uS/cm]	68	65	63	15
Alkalinity [mg/L as CaCO3]	27	26	27	< 2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	3
F [mg/L]	0.20	0.14	0.14	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.05	0.04	< 0.03	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.488	0.603	0.656	0.001
As [mg/L]	0.177	0.0996	0.105	< 0.0002
Ba [mg/L]	0.00115	0.00113	0.00114	< 0.00008
Be [mg/L]	0.000331	0.000295	0.000181	< 0.000007
B [mg/L]	0.033	0.033	0.037	< 0.002
Bi [mg/L]	0.00084	0.00052	0.00041	< 0.00001
Ca [mg/L]	5.23	4.42	4.70	< 0.01
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000154	0.000155	0.000199	< 0.000004
Cr [mg/L]	0.00109	0.00127	0.00168	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Fe [mg/L]	0.066	0.064	0.077	< 0.007
K [mg/L]	1.07	1.06	1.17	0.011
Li [mg/L]	0.119	0.0557	0.0590	< 0.0001

OnLine LIMS

0004059627

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Mg [mg/L]	0.497	0.485	0.569	< 0.001
Mn [mg/L]	0.00857	0.00644	0.00818	0.00019
Mo [mg/L]	0.0035	0.0020	< 0.0004	< 0.0004
Na [mg/L]	6.30	6.62	5.83	< 0.01
Ni [mg/L]	0.0014	0.0014	0.0015	< 0.0001
Pb [mg/L]	0.00058	0.00033	0.00027	< 0.00009
Sb [mg/L]	0.0488	0.0188	0.0222	< 0.0009
Se [mg/L]	0.00006	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	2.45	2.49	2.79	< 0.02
Sn [mg/L]	0.00040	0.00036	0.00052	< 0.00006
Sr [mg/L]	0.0112	0.00854	0.00687	< 0.00008
Ti [mg/L]	0.0018	0.0014	0.0020	< 0.0001
Tl [mg/L]	0.000084	0.000090	0.000132	< 0.000005
U [mg/L]	0.00217	0.00108	0.000720	< 0.000002
V [mg/L]	0.00107	0.00095	0.00097	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002
Ce [mg/L]	0.00015	0.00006	0.00005	0.00003
Cs [mg/L]	0.0491	0.0271	0.0377	< 0.0001
Dy [mg/L]	0.00002	0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0009	0.0012	0.0012	< 0.0001
Gd (tot) [mg/L]	0.00003	0.00002	0.00001	0.00001
Ge [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00007	0.00004	0.00003	0.00003
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0008	0.0004	0.0003	< 0.0001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP	16:BLK: $SPLP1312 Blank #1
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	0.00002	< 0.00001	< 0.00001	0.00001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.0540	0.0546	0.0727	< 0.0001
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00003	0.00002	< 0.00001	0.00001
Sc [mg/L]	0.0001	0.0001	0.0001	< 0.0001
Ta [mg/L]	0.0007	0.0003	0.0004	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0003	0.0002	0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	#1 or #2	NA	N	N
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

OnLine LIMS

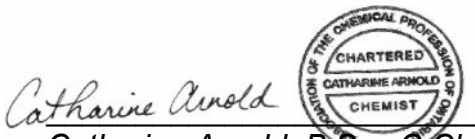
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Accreditation Descriptions

CALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0183-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	100	90	110	NA		
Acidity - QCBatchID: EWL0184-MAR25													
Acidity	2	mg/L as Ca	2			ND	20	106	90	110	NA		
Alkalinity - QCBatchID: EWL0183-MAR25													
Alkalinity	2	mg/L as Ca	< 2			0	20	104	80	120	NA		
Alkalinity - QCBatchID: EWL0184-MAR25													
Alkalinity	2	mg/L as Ca	< 2			2	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0209-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	101	75	125
Chloride	0.2	mg/L	<0.2			ND	20	100	90	110	104	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	104	75	125
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	98	90	110	104	75	125
Sulphate	0.2	mg/L	<0.2			7	20	96	90	110	96	75	125
Conductivity - QCBatchID: EWL0183-MAR25													
Conductivity	2	uS/cm	2			3	20	105	90	110	NA		
Conductivity - QCBatchID: EWL0184-MAR25													
Conductivity	2	uS/cm	< 2			0	20	101	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0186-MAR25													
Fluoride	0.06	mg/L	<0.06			0	10	99	90	110	107	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0201-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	96	75	125
Inorganics-General - QCBatchID: EHG0017-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	113	80	120	121	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0083-MAR25													
Aluminum	0.001	mg/L	<0.001			6	20	99	90	110	106	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	116	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	100	90	110	97	70	130
Barium	0.00008	mg/L	<0.00008			2	20	98	90	110	102	70	130
Beryllium	0.000007	mg/L	<0.000007			13	20	93	90	110	98	70	130
Bismuth	0.00001	mg/L	<0.00001			8	20	92	90	110	102	70	130
Boron	0.002	mg/L	<0.002			1	20	100	90	110	99	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	98	90	110	108	70	130
Calcium	0.01	mg/L	<0.01			1	20	101	90	110	85	70	130
Cesium	0.0001	mg/L	<0.0001			2	20	105	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			3	20	97	90	110	84	70	130

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Cobalt	0.000004	mg/L	<0.000004			10	20	95	90	110	92	70	130	
Copper	0.001	mg/L	<0.001			6	20	99	90	110	101	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			9	20	102	90	110	100	70	130	
Lead	0.00009	mg/L	<0.00009			7	20	96	90	110	95	70	130	
Lithium	0.0001	mg/L	<0.0001			1	20	95	90	110	96	70	130	
Magnesium	0.001	mg/L	<0.001			1	20	102	90	110	90	70	130	
Manganese	0.00001	mg/L	<0.00001			7	20	99	90	110	98	70	130	
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	104	70	130	
Nickel	0.0001	mg/L	<0.0001			3	20	99	90	110	99	70	130	
Niobium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			2	20	107	90	110	99	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			2	20	99	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			3	20	97	90	110	98	70	130	
Silicon	0.02	mg/L	<0.02			2	20	96	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	97	90	110	99	70	130	
Sodium	0.01	mg/L	<0.01			1	20	99	90	110	100	70	130	
Strontium	0.00008	mg/L	<0.00008			1	20	97	90	110	95	70	130	
Tantalum	0.0001	mg/L	<0.0001			ND	20	106	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			5	20	96	90	110	96	70	130	
Thorium	0.0001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			3	20	101	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			7	20	97	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			4	20	98	90	110	93	70	130	
Vanadium	0.00001	mg/L	<0.00001			0	20	99	90	110	100	70	130	
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	103	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0116-MAR25														
Cerium	0.00001	mg/L	<0.00001			0	20	100	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	

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SPLP1312--(Quebec Modified Version - MA. 100 -Lix.com.1.0)
20:1 L/S ratio, 18hr

LR Report : **CA11134-FEB25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Gallium	0.0001	mg/L	<0.0001			1	20	100	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			5	20	101	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			5	20	99	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	100	90	110	NV	70	130	
Scandium	0.0001	mg/L	<0.0001			11	20	94	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	101	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
pH - QCBatchID: EWL0183-MAR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0184-MAR25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0083-MAR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			4	10	95	90	110	107	75	125	

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11135-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Sample Date & Time			NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	17-Mar-25	15:16	100	101	99	101	100	101	99	99
Volume D.I. Water [mL]	17-Mar-25	15:16	400	400	400	400	400	400	400	400
Alkalinity [mg/L as CaCO3]	19-Mar-25	14:16	98	100	68	82	72	94	68	71
pH [No unit]	19-Mar-25	14:16	9.42	9.48	9.08	9.16	9.18	9.24	8.96	9.27
Acidity [mg/L as CaCO3]	19-Mar-25	14:16	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Conductivity [uS/cm]	19-Mar-25	14:16	210	218	204	188	172	218	173	174
F [mg/L]	19-Mar-25	13:56	2.07	4.33	2.45	3.16	2.51	1.86	3.53	2.26
Cl [mg/L]	20-Mar-25	17:42	22	< 20	< 20	< 20	< 20	28	< 20	< 20
SO4 [mg/L]	19-Mar-25	15:00	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	19-Mar-25	15:00	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	19-Mar-25	15:00	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Br [mg/L]	19-Mar-25	15:00	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Tot.Reactive P [mg/L]	20-Mar-25	13:13	1.27	1.20	3.22	1.34	0.91	1.41	0.94	3.27
Hg [mg/L]	20-Mar-25	13:24	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	20-Mar-25	13:24	0.00012	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00013	< 0.00005	< 0.00005
Al [mg/L]	20-Mar-25	13:24	2.08	0.825	0.112	0.588	0.887	1.83	0.770	0.133

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LR Report : **CA11135-FEB25**

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
As [mg/L]	20-Mar-25	13:24	0.796	2.21	8.60	2.88	1.69	1.15	1.33	8.51
Ba [mg/L]	20-Mar-25	13:24	0.00113	0.00193	0.00353	0.00268	0.00209	0.00136	0.00176	0.00327
Be [mg/L]	20-Mar-25	13:24	0.00122	0.000717	0.000030	0.000380	0.000414	0.000429	0.000502	0.000019
B [mg/L]	21-Mar-25	11:54	0.246	0.272	0.251	0.221	0.181	0.186	0.173	0.193
Bi [mg/L]	21-Mar-25	11:54	0.00155	0.00146	0.00005	0.00084	0.00105	0.00255	0.00122	0.00005
Ca [mg/L]	21-Mar-25	11:54	0.66	1.24	7.38	3.09	2.26	0.89	1.19	6.99
Cd [mg/L]	21-Mar-25	11:54	0.000016	0.000006	< 0.000003	0.000043	0.000008	0.000026	0.000005	0.000015
Co [mg/L]	21-Mar-25	11:54	0.000080	0.000574	0.000434	0.000549	0.000631	0.000051	0.000277	0.000494
Cr [mg/L]	21-Mar-25	11:54	0.0246	0.0267	0.0326	0.0229	0.0225	0.0051	0.0124	0.0475
Cu [mg/L]	21-Mar-25	11:54	0.021	0.003	< 0.001	0.003	0.004	0.002	< 0.001	< 0.001
Fe [mg/L]	21-Mar-25	11:54	0.125	0.386	0.140	0.251	0.369	0.083	0.186	0.188
K [mg/L]	21-Mar-25	11:54	13.3	12.2	13.2	10.7	11.1	11.3	9.48	8.00
Li [mg/L]	21-Mar-25	12:04	0.881	2.42	1.32	2.16	1.54	0.826	1.89	1.06
Mg [mg/L]	21-Mar-25	12:04	0.262	1.64	9.24	2.35	1.61	0.173	0.660	7.49
Mn [mg/L]	21-Mar-25	12:04	0.0128	0.0201	0.0035	0.0149	0.0175	0.0130	0.0111	0.0044
Mo [mg/L]	21-Mar-25	12:04	0.0097	0.0037	0.0017	0.0059	0.0054	0.0023	0.0017	0.0011
Na [mg/L]	21-Mar-25	12:04	38.0	31.7	12.2	23.2	22.3	41.7	20.1	13.9
Ni [mg/L]	21-Mar-25	12:04	0.0005	0.0041	0.0058	0.0046	0.0041	0.0003	0.0019	0.0053
Pb [mg/L]	21-Mar-25	12:04	0.00100	0.00093	< 0.00009	0.00125	0.00076	0.00083	0.00056	0.00020
Sb [mg/L]	21-Mar-25	12:04	0.232	0.402	1.39	0.499	0.284	0.310	0.360	1.18
Se [mg/L]	24-Mar-25	10:27	0.00031	0.00016	0.00090	0.00032	0.00016	0.00049	0.00022	0.00048
Si [mg/L]	21-Mar-25	13:40	6.97	9.00	11.9	8.13	8.98	8.58	6.33	12.8
Sn [mg/L]	21-Mar-25	13:40	0.00126	0.00098	0.00011	0.00080	0.00072	0.00678	0.00077	0.00022
Sr [mg/L]	21-Mar-25	13:40	0.00159	0.00269	0.01509	0.00735	0.00455	0.00210	0.00257	0.0156
Ti [mg/L]	21-Mar-25	13:40	0.0021	0.0102	0.0025	0.0060	0.0096	0.0014	0.0069	0.0034
Tl [mg/L]	21-Mar-25	13:40	0.00168	0.000309	0.00012	0.00031	0.00042	0.00206	0.00028	0.00007
U [mg/L]	21-Mar-25	13:40	0.142	0.0274	0.0102	0.0657	0.0262	0.219	0.0538	0.0113
V [mg/L]	21-Mar-25	13:40	0.0281	0.0371	0.0437	0.0356	0.0330	0.00710	0.0239	0.0528
Zn [mg/L]	21-Mar-25	13:40	0.003	0.002	< 0.002	0.004	0.002	0.002	< 0.002	0.003
Ce [mg/L]	24-Mar-25	10:27	0.00012	0.00030	0.00002	0.00038	0.00034	0.00011	0.00030	0.00005
Cs [mg/L]	24-Mar-25	10:27	0.0434	0.0515	0.242	0.112	0.106	0.0354	0.0718	0.114

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Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: CV5-FLO-CP	6: CV5-MID-CP	7: CV5-MAG-CP	8: CV5-BYP-CP	9: CV5-MAS-CP	10: CV5-FLO-CP DUP	11: CV5-MID-CP DUP	12: CV5-MAG-CP DUP
Dy [mg/L]	24-Mar-25	10:27	0.00004	0.00005	< 0.00001	0.00003	0.00005	0.00003	0.00004	< 0.00001
Er [mg/L]	24-Mar-25	10:27	0.00001	0.00001	< 0.00001	0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Eu [mg/L]	24-Mar-25	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	24-Mar-25	10:27	0.0370	0.0057	0.0002	0.0037	0.0064	0.0366	0.0166	0.0002
Gd (tot) [mg/L]	24-Mar-25	10:27	0.00006	0.00005	< 0.00001	0.00004	0.00006	0.00005	0.00005	< 0.00001
Ge [mg/L]	21-Mar-25	13:40	0.0009	0.0004	< 0.0001	0.0003	0.0004	0.0012	0.0002	< 0.0001
Hf [mg/L]	24-Mar-25	10:28	< 0.0001	0.0002	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Ir [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	24-Mar-25	10:28	0.00006	0.00016	0.00007	0.00021	0.00018	0.00006	0.00016	0.00007
Lu [mg/L]	24-Mar-25	10:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	24-Mar-25	10:28	0.0027	0.0013	0.0002	0.0015	0.0013	0.0054	0.0014	0.0001
Os [mg/L]	24-Mar-25	10:28	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	24-Mar-25	10:28	0.00002	0.00004	< 0.00001	0.00005	0.00005	0.00002	0.00004	< 0.00001
Rh [mg/L]	21-Mar-25	13:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	21-Mar-25	13:41	0.638	0.531	0.732	0.501	0.564	0.514	0.564	0.303
Re [mg/L]	21-Mar-25	13:41	0.0006	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	21-Mar-25	13:41	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	24-Mar-25	10:28	0.00004	0.00005	< 0.00001	0.00005	0.00006	0.00004	0.00005	< 0.00001
Sc [mg/L]	24-Mar-25	10:28	0.0003	0.0005	0.0005	0.0004	0.0005	0.0004	0.0003	0.0006
Ta [mg/L]	21-Mar-25	13:41	0.0005	0.0009	< 0.0001	0.0006	0.0006	0.0007	0.0005	< 0.0001
Tb [mg/L]	24-Mar-25	10:28	0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001	< 0.00001
Te [mg/L]	21-Mar-25	13:41	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	21-Mar-25	13:41	0.0004	0.0005	< 0.0001	0.0005	0.0005	0.0006	0.0005	< 0.0001
Tm [mg/L]	24-Mar-25	10:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Sample Date & Time	NA	NA	
Sample weight [g]	100	100	100
Volume D.I. Water [mL]	400	400	400
Alkalinity [mg/L as CaCO3]	74	80	85
pH [No unit]	9.22	9.42	9.44
Acidity [mg/L as CaCO3]	< 2	< 2	< 2
Conductivity [uS/cm]	178	200	200
F [mg/L]	2.63	3.24	3.24
Cl [mg/L]	< 20	22	21
SO4 [mg/L]	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6
Br [mg/L]	< 30	< 30	< 30
Tot.Reactive P [mg/L]	1.36	1.22	1.21
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.653	0.851	0.803
As [mg/L]	2.98	2.17	2.17
Ba [mg/L]	0.00290	0.00188	0.00186
Be [mg/L]	0.000519	0.000648	0.000762
B [mg/L]	0.215	0.191	0.191
Bi [mg/L]	0.00154	0.00217	0.00231
Ca [mg/L]	3.03	1.79	1.77
Cd [mg/L]	0.000013	0.000014	0.000014
Co [mg/L]	0.000882	0.000775	0.000773
Cr [mg/L]	0.0166	0.0366	0.0372
Cu [mg/L]	0.001	0.001	0.001
Fe [mg/L]	0.312	0.405	0.401
K [mg/L]	8.96	14.6	14.5
Li [mg/L]	1.78	1.69	1.69
Mg [mg/L]	1.97	2.06	2.02

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Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Mn [mg/L]	0.0200	0.0184	0.0181
Mo [mg/L]	0.0035	0.0019	0.0018
Na [mg/L]	23.5	25.7	25.5
Ni [mg/L]	0.0064	0.0052	0.0053
Pb [mg/L]	0.00123	0.00124	0.00124
Sb [mg/L]	0.548	0.469	0.478
Se [mg/L]	0.00033	0.00033	0.00029
Si [mg/L]	8.03	10.4	10.3
Sn [mg/L]	0.00072	0.00094	0.00081
Sr [mg/L]	0.00969	0.00359	0.00356
Ti [mg/L]	0.0072	0.0090	0.0086
Tl [mg/L]	0.00025	0.00058	0.00058
U [mg/L]	0.0801	0.0222	0.0217
V [mg/L]	0.0277	0.0385	0.0387
Zn [mg/L]	0.002	0.003	0.002
Ce [mg/L]	0.00073	0.00027	0.00028
Cs [mg/L]	0.0858	0.157	0.156
Dy [mg/L]	0.00006	0.00005	0.00005
Er [mg/L]	0.00001	0.00002	0.00001
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0037	0.0055	0.0057
Gd (tot) [mg/L]	0.00009	0.00007	0.00007
Ge [mg/L]	0.0003	0.0004	0.0004
Hf [mg/L]	< 0.0001	< 0.0001	0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00039	0.00015	0.00015
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0018	0.0013	0.0013
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001

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LR Report : **CA11135-FEB25**

Analysis	13: CV5-BYP-CP DUP	14: CV5-MAS-CP DUP	15: CV5-MAS-CP DUP
Pr [mg/L]	0.00009	0.00003	0.00004
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.392	0.872	0.870
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	0.00009	0.00006	0.00006
Sc [mg/L]	0.0005	0.0005	0.0005
Ta [mg/L]	0.0007	0.0005	0.0003
Tb [mg/L]	0.00002	0.00001	0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0009	0.0006	0.0006
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code	CALA	PALA
	g	NA	N	N
	mL	NA	N	N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	Y	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	Y	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	Y	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	Y	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	Y	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	Y	N

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LR Report : **CA11135-FEB25**

Accreditation Descriptions

CALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation found at https://directory.cala.ca/#. Analytes and SGS Method Codes marked with a "Y" in the "CALA" column in the table denote ISO/IEC17025 accreditation

PALA:

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Catharine Arnold

CHARTERED CHEMIST CATHARINE ARNOLD

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0329-MAR25													
Acidity	2	mg/L as Ca	< 2			ND	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0329-MAR25													
Alkalinity	2	mg/L as Ca	< 2			8	20	100	80	120	NA		
Anions by IC - QCBatchID: DIO0368-MAR25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	100	75	125
Nitrate (as N)	0.06	mg/L	<0.06			3	20	99	90	110	99	75	125
Nitrite (as N)	0.03	mg/L	<0.03			16	20	96	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			10	20	98	90	110	96	75	125
Anions by IC - QCBatchID: DIO0412-MAR25													
Chloride	0.2	mg/L	<0.2			2	20	104	90	110	105	75	125
Conductivity - QCBatchID: EWL0329-MAR25													
Conductivity	2	uS/cm	< 2			0	20	96	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0343-MAR25													
Fluoride	0.06	mg/L	<0.06			ND	10	100	90	110	101	75	125
Inorganics-General - QCBatchID: EHG0032-MAR25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	91	80	120	124	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0149-MAR25													
Aluminum	0.001	mg/L	<0.001			5	20	100	90	110	118	70	130
Antimony	0.0009	mg/L	<0.0009			2	20	107	90	110	118	70	130
Arsenic	0.0002	mg/L	<0.0002			0	20	99	90	110	105	70	130
Barium	0.00008	mg/L	<0.00008			19	20	97	90	110	96	70	130
Beryllium	0.000007	mg/L	<0.000007			11	20	97	90	110	105	70	130
Bismuth	0.00001	mg/L	<0.00001			1	20	92	90	110	90	70	130
Boron	0.002	mg/L	<0.002			2	20	100	90	110	102	70	130
Cadmium	0.000003	mg/L	<0.000003			0	20	100	90	110	108	70	130
Calcium	0.01	mg/L	<0.01			0	20	104	90	110	95	70	130
Cesium	0.0001	mg/L	<0.0001			0	20	102	90	110	NV	70	130
Chromium	0.00008	mg/L	<0.00008			1	20	95	90	110	89	70	130
Cobalt	0.000004	mg/L	<0.000004			4	20	98	90	110	92	70	130
Copper	0.001	mg/L	<0.001			18	20	98	90	110	102	70	130
Germanium	0.0001	mg/L	<0.0001			3	20	106	90	110	NV	70	130
Hafnium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Iridium	0.00001	mg/L	<0.00001			ND	20	108	90	110	NV	70	130
Iron	0.007	mg/L	<0.007			1	20	106	90	110	100	70	130
Lead	0.00009	mg/L	<0.00009			1	20	94	90	110	128	70	130

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lithium	0.0001	mg/L	<0.0001			4	20	100	90	110	102	70	130	
Magnesium	0.001	mg/L	<0.001			5	20	107	90	110	81	70	130	
Manganese	0.00001	mg/L	<0.00001			0	20	100	90	110	107	70	130	
Molybdenum	0.0004	mg/L	<0.0004			2	20	105	90	110	93	70	130	
Nickel	0.0001	mg/L	<0.0001			4	20	98	90	110	91	70	130	
Niobium	0.0001	mg/L	<0.0001			5	20	102	90	110	NV	70	130	
Osmium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Potassium	0.009	mg/L	<0.009			1	20	105	90	110	101	70	130	
Rhenium	0.0001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Rhodium	0.00001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Rubidium	0.0001	mg/L	Error!			1	20	95	90	110	NV	70	130	
Ruthenium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Selenium	0.00004	mg/L	<0.00004			4	20	100	90	110	104	70	130	
Silicon	0.02	mg/L	<0.02			1	20	100	90	110	NV	70	130	
Silver	0.00005	mg/L	<0.00005			ND	20	95	90	110	81	70	130	
Sodium	0.01	mg/L	<0.01			1	20	100	90	110	95	70	130	
Strontium	0.00008	mg/L	<0.00008			2	20	100	90	110	91	70	130	
Tantalum	0.0001	mg/L	<0.0001			1	20	102	90	110	NV	70	130	
Tellurium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Thallium	0.000005	mg/L	<0.000005			1	20	97	90	110	110	70	130	
Thorium	0.0001	mg/L	<0.0001			1	20	97	90	110	NV	70	130	
Tin	0.00006	mg/L	<0.00006			1	20	103	90	110	NV	70	130	
Titanium	0.0001	mg/L	<0.0001			6	20	106	90	110	NV	70	130	
Uranium	0.000002	mg/L	<0.000002			1	20	98	90	110	99	70	130	
Vanadium	0.00001	mg/L	<0.00001			1	20	99	90	110	101	70	130	
Zinc	0.002	mg/L	<0.002			6	20	100	90	110	102	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0177-MAR25														
Cerium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Dysprosium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.00001			ND	20	96	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130	
Gallium	0.0001	mg/L	<0.0001			2	20	102	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.00001			ND	20	97	90	110	NV	70	130	
Indium	0.00001	mg/L	<0.00001			5	20	100	90	110	NV	70	130	
Lanthanum	0.00001	mg/L	<0.00001			ND	20	95	90	110	NV	70	130	
Lutetium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Praseodymium	0.00001	mg/L	<0.00001			ND	20	91	90	110	NV	70	130	
Samarium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	

OnLine LIMS

00040550l4

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Terbium	0.00001	mg/L	<0.00001			ND	20	91	90	110	NV	70	130
Thulium	0.00001	mg/L	<0.00001			ND	20	94	90	110	NV	70	130
pH - QCBatchID: EWL0329-MAR25													
pH	0.05	No unit	NA			0		100			NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0145-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	98	90	110	94	75	125
Reactive Phosphorus by SFA - QCBatchID: SKA0163-MAR25													
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	96	90	110	NV	75	125

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24-March-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 12 February 2025
LR Report: **CA11136-FEB25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Spec.Grav
1: Analysis Start Date		13-Mar-25
2: Analysis Start Time		09:07
3: Analysis Completed Date		13-Mar-25
4: Analysis Completed Time		09:11
5: CV5-FLO-CP	NA	2.62
6: CV5-MID-CP	NA	2.69
7: CV5-MAG-CP	NA	2.98
8: CV5-BYP-CP	NA	2.73
9: CV5-MAS-CP	NA	2.69

Catharine Arnold

CHARTERED CATHARINE ARNOLD CHEMIST

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LMS

0004055024

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SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

16-April-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,, Montreal
Canada, H3A 1Z4
Phone: 647-782-7386, Fax:

Date Rec. : 14 March 2025
LR Report: **CA11168-MAR25**
Reference: Shaakichiuwaanaan Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	21-Mar-25	12:59	01-Apr-25	10:50	100	100	100	100	101	99	100	100
Volume D.I. Water [mL]	24-Mar-25	07:00	01-Apr-25	10:50	400	400	400	400	400	400	400	400
pH [No unit]	01-Apr-25	15:45	03-Apr-25	11:33	9.48	9.16	9.25	9.37	9.38	8.71	9.58	9.46
Conductivity [uS/cm]	01-Apr-25	15:45	03-Apr-25	11:33	180	162	223	238	193	150	277	226
Alkalinity [mg/L as CaCO3]	01-Apr-25	15:45	03-Apr-25	11:33	67	63	92	101	94	58	135	106
Acidity [mg/L as CaCO3]	01-Apr-25	15:45	03-Apr-25	11:33	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	01-Apr-25	08:25	03-Apr-25	15:22	1.99	2.47	4.84	9.00	6.21	6.90	10.6	5.92
Br [mg/L]	31-Mar-25	21:30	02-Apr-25	12:51	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	31-Mar-25	21:30	02-Apr-25	12:51	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	31-Mar-25	21:30	04-Apr-25	13:26	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	31-Mar-25	21:30	02-Apr-25	12:52	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	31-Mar-25	21:30	02-Apr-25	12:52	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	01-Apr-25	07:12	14-Apr-25	10:48	< 0.03	1.66	2.37	3.16	1.94	1.35	1.11	1.76
Hg [mg/L]	04-Apr-25	14:53	04-Apr-25	15:00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	< 0.00005	< 0.00005	0.00011	0.00007	0.00015	0.00010	< 0.00005	0.00011
Al [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	1.82	4.22	5.20	6.10	7.98	3.69	6.99	4.71
As [mg/L]	03-Apr-25	18:14	08-Apr-25	09:08	0.554	0.0842	1.25	0.953	2.66	1.19	4.05	1.79
Ba [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	0.00221	0.00402	0.00406	0.00303	0.00768	0.00427	0.00438	0.00437
Be [mg/L]	03-Apr-25	18:14	07-Apr-25	08:49	0.000410	0.00241	0.0109	0.00160	0.00137	0.000951	0.000468	0.000542
B [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.222	0.186	0.472	0.258	0.390	0.292	0.418	0.296
Bi [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.00271	0.00011	0.00610	0.00036	0.00105	0.0561	0.00007	0.00140

OnLine LIMS

0004081418

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-PEG-277	6: VIS-CV5-PEG-278	12: VIS-CV5-SP-327	13: VIS-CV5-SP-328	14: VIS-CV5-SP-329	15: VIS-CV5-SP-330	16: VIS-CV5-SP-331	17: VIS-CV5-SP-332
Ca [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	1.21	0.90	1.10	0.97	0.93	0.89	0.75	0.78
Cd [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.000012	0.000018	0.000047	0.000030	0.000042	0.000059	0.000029	0.000021
Co [mg/L]	03-Apr-25	18:14	07-Apr-25	08:52	0.000152	0.000356	0.000147	0.000111	0.000155	0.000126	0.000081	0.000067
Cr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0122	0.00125	0.00321	0.00474	0.00428	0.0155	0.00327	0.00256
Cu [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.003	0.005	0.001	0.002	0.002	0.002	0.001	< 0.001
Fe [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.086	0.500	0.239	0.186	0.210	0.433	0.168	0.228
K [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	26.1	6.36	5.94	5.84	1.42	3.37	2.99	4.05
Li [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.589	0.142	2.04	9.73	7.49	3.22	12.6	6.98
Mg [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.179	0.210	0.305	0.152	0.227	0.240	0.191	0.246
Mn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0130	0.0350	0.0730	0.164	0.153	0.0850	0.116	0.0732
Mo [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0016	0.0004	0.0046	0.0089	0.0066	0.0053	0.0047	0.0056
Na [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	16.2	27.5	37.1	18.4	18.2	20.1	20.3	24.4
Ni [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0002	0.0003	0.0003	0.0002	0.0003	0.0005	0.0003	0.0001
P [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.833	1.55	1.59	2.58	2.51	0.927	1.98	1.04
Pb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00088	0.00078	0.00197	0.00069	0.00313	0.00133	0.00152	0.00082
Sb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.0819	0.0342	0.290	0.569	3.84	0.451	4.60	0.443
Se [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00019	0.00040	0.00030	0.00018	0.00013	0.00116	0.00021	0.00015
Si [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	5.15	5.64	7.92	8.16	12.6	9.31	7.36	7.03
Sn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00067	0.00423	0.00264	0.00453	0.00327	0.00267	0.00293	0.00167
Sr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:03	0.00284	0.00305	0.00343	0.00317	0.00643	0.00483	0.00299	0.00266
Ti [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.0007	0.0038	0.0032	0.0037	0.0024	0.0036	0.0017	0.0019
Tl [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.000977	0.000812	0.000785	0.00126	0.000877	0.000727	0.000712	0.000515
U [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00874	0.0174	0.102	0.0263	0.114	0.00779	0.0265	0.0714
V [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00573	0.0147	0.00132	0.00091	0.00161	0.00181	0.00125	0.00118
Zn [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.002	0.006	0.006	0.005	0.007	0.010	0.005	0.005
Au [mg/L]	03-Apr-25	18:14	07-Apr-25	09:06	0.00001	0.00009	0.00004	0.00009	0.00004	0.00004	0.00004	< 0.00001
Ce [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00023	0.00059	0.00041	0.00005	0.00007	0.00023	0.00004	0.00017
Cs [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0687	0.0268	0.0491	0.272	0.287	0.0914	0.132	0.150
Dy [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00002	0.00007	0.00012	0.00001	0.00002	0.00013	0.00001	0.00005
Er [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	0.00002	0.00002	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001
Eu [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	0.0216	0.0597	0.0528	0.0564	0.0464	0.0339	0.0633	0.0548
Gd (tot) [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00018	0.00019	0.00001	0.00002	0.00015	< 0.00001	0.00008
Ge [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0007	0.0003	0.0009	0.0016	0.0019	0.0005	0.0020	0.0009
Hf [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0001	0.0014	0.0003	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0002
Ho [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
In [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	0.00002	< 0.00001	0.00002	< 0.00001	0.00001	0.00001	< 0.00001
Ir [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

0004081418

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La [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00010	0.00028	0.00020	0.00005	0.00018	0.00012	0.00019	0.00009
Lu [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0013	0.0038	0.0051	0.0018	0.0023	0.0015	0.0011	0.0014
Nd [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00012	0.00063	0.00019	0.00001	0.00003	0.00013	0.00002	0.00009
Os [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00010	0.00008	< 0.00001	< 0.00001	0.00003	< 0.00001	0.00002
Pt [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	1.45	0.597	0.447	0.884	0.234	0.267	0.369	0.309
Re [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.00003	0.00018	0.00016	0.00001	0.00001	0.00011	0.00001	0.00006
Sc [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	0.0002	0.0002	0.0003	0.0003	0.0004	0.0003	0.0002	0.0002
Ta [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0003	0.0035	0.0012	0.0025	0.0017	0.0014	0.0016	0.0003
Tb [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	0.00002	0.00005	< 0.00001	< 0.00001	0.00005	< 0.00001	0.00002
Te [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	03-Apr-25	18:14	07-Apr-25	09:10	0.0008	0.0053	0.0029	0.0025	0.0026	0.0020	0.0004	0.0009
Tm [mg/L]	06-Apr-25	08:53	07-Apr-25	09:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	101	101	101	99	100	99	101	99	100	100	99
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.03	9.28	8.38	8.87	8.83	9.05	9.53	9.42	8.84	8.54	9.15
Conductivity [uS/cm]	237	227	253	242	184	186	219	199	210	227	192
Alkalinity [mg/L as CaCO3]	99	92	71	88	81	78	103	95	85	68	91
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	11.5	5.72	3.98	9.53	4.42	5.15	5.15	1.89	2.25	3.66	0.27
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	3.10	1.41	0.37	2.56	3.20	2.23	2.11	1.47	0.79	0.82	0.61

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LR Report : **CA11168-MAR25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	0.00007	< 0.00005	< 0.00005	< 0.00005	0.00025	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	5.82	5.75	0.778	3.94	7.12	2.77	5.98	3.66	1.29	0.659	0.044
As [mg/L]	3.54	0.484	0.151	1.82	1.43	0.957	1.43	0.275	0.177	0.548	1.80
Ba [mg/L]	0.00326	0.00700	0.00162	0.00202	0.00177	0.00091	0.00155	0.00052	0.00117	0.00089	0.00079
Be [mg/L]	0.000289	0.00110	0.000906	0.000460	0.000500	0.000286	0.000319	0.000232	0.00101	0.000266	< 0.000007
B [mg/L]	0.533	0.233	0.338	0.290	0.396	0.252	0.365	0.286	0.231	0.288	0.050
Bi [mg/L]	0.00020	0.00010	0.00017	0.00337	0.00093	0.00965	0.00014	0.00118	0.00112	0.00036	< 0.00001
Ca [mg/L]	0.40	1.21	1.63	1.00	0.45	0.61	0.50	0.71	0.85	2.57	5.91
Cd [mg/L]	0.000006	0.000043	0.000013	0.000016	0.000031	0.000017	0.000011	0.000014	0.000015	0.000004	< 0.000003
Co [mg/L]	0.000041	0.000235	0.000042	0.000064	0.000048	0.000026	0.000021	0.000017	0.000045	0.000024	0.000317
Cr [mg/L]	0.00116	0.00244	0.00037	0.00190	0.00579	0.00690	0.00262	0.00224	0.00263	0.00078	0.105
Cu [mg/L]	0.001	0.006	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	0.001	0.001	< 0.001
Fe [mg/L]	0.097	0.431	0.116	0.122	0.089	0.042	0.073	0.028	0.078	0.037	0.102
K [mg/L]	1.38	8.93	20.1	16.0	1.55	13.5	2.54	5.46	8.68	13.8	0.182
Li [mg/L]	7.17	7.41	2.33	7.67	4.16	3.04	5.54	2.65	3.06	3.12	0.0017
Mg [mg/L]	0.124	0.552	0.654	0.183	0.061	0.077	0.065	0.057	0.126	0.436	16.9
Mn [mg/L]	0.0354	0.135	0.00591	0.0577	0.0536	0.0177	0.0279	0.0131	0.0157	0.00849	0.00199
Mo [mg/L]	0.0032	0.0027	0.0013	0.0044	0.0024	0.0059	0.0011	0.0049	0.0179	0.0029	0.0007
Na [mg/L]	25.1	18.1	20.8	15.5	23.2	21.6	28.9	31.3	27.1	21.8	6.31
Ni [mg/L]	0.0002	0.0011	0.0001	0.0002	0.0001	0.0002	< 0.0001	0.0001	0.0002	0.0001	0.0028
P [mg/L]	1.71	1.11	0.313	1.82	2.43	1.90	1.35	1.26	0.642	0.609	0.015
Pb [mg/L]	0.00043	0.00198	0.00015	0.00052	0.00143	0.00102	0.00087	0.00029	0.00043	0.00046	< 0.00009
Sb [mg/L]	2.58	0.106	0.0672	0.589	0.273	0.186	0.906	0.135	0.0543	0.130	0.0157
Se [mg/L]	0.00005	0.00014	0.00047	0.00009	0.00018	0.00047	0.00021	0.00029	0.00016	0.00049	0.00012
Si [mg/L]	8.11	7.58	5.70	5.19	8.11	5.17	5.34	4.23	5.30	3.70	13.4
Sn [mg/L]	0.00210	0.00421	0.00103	0.00264	0.00155	0.00077	0.00122	0.00065	0.00055	0.00044	< 0.00006
Sr [mg/L]	0.00180	0.00624	0.00517	0.00293	0.00161	0.00169	0.00144	0.00119	0.00114	0.00604	0.00934
Ti [mg/L]	0.0013	0.0024	0.0005	0.0029	0.0013	0.0008	0.0014	0.0005	0.0011	0.0005	0.0005
Tl [mg/L]	0.000412	0.000857	0.000291	0.00137	0.000764	0.000851	0.000621	0.000298	0.000411	0.000333	0.000028
U [mg/L]	0.0484	0.0303	0.0130	0.00889	0.0800	0.0244	0.214	0.209	0.0576	0.0148	0.000107
V [mg/L]	0.00115	0.00212	0.00163	0.00079	0.00086	0.00161	0.00170	0.00161	0.00769	0.00120	0.00869
Zn [mg/L]	0.004	0.008	0.002	0.004	0.005	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002
Au [mg/L]	0.00004	0.00002	< 0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00002
Ce [mg/L]	0.00003	0.00008	0.00006	0.00013	0.00031	0.00010	0.00012	0.00005	0.00004	0.00002	< 0.00001
Cs [mg/L]	0.113	0.0935	0.0692	0.352	0.119	0.108	0.123	0.0303	0.0444	0.0338	0.0031
Dy [mg/L]	< 0.00001	0.00001	0.00002	0.00001	0.00011	0.00003	0.00004	0.00002	0.00001	< 0.00001	< 0.00001
Er [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

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LR Report : **CA11168-MAR25**

Analysis	18: VIS-CV5-SP-333	19: VIS-CV5-SP-334	20: VIS-CV5-SP-335	21: VIS-CV5-SP-336	22: VIS-CV5-SP-337	23: VIS-CV5-SP-338	24: VIS-CV5-SP-339	25: VIS-CV5-SP-340	26: VIS-CV5-SP-341	27: VIS-CV5-SP-342	28: VIS-CV5-UM-279
Eu [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	0.0569	0.0573	0.0131	0.0626	0.0461	0.0333	0.0553	0.0518	0.0342	0.0327	< 0.0001
Gd (tot) [mg/L]	0.00001	0.00002	0.00003	0.00002	0.00021	0.00006	0.00007	0.00003	0.00002	< 0.00001	< 0.00001
Ge [mg/L]	0.0016	0.0006	0.0001	0.0008	0.0017	0.0013	0.0012	0.0009	0.0003	0.0002	< 0.0001
Hf [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004	0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	0.00012	0.00006	0.00003	0.00007	0.00013	0.00005	0.00009	0.00003	0.00002	0.00001	< 0.00001
Lu [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	0.0023	0.0009	0.0005	0.0013	0.0037	0.0014	0.0032	0.0035	0.0010	0.0006	< 0.0001
Nd [mg/L]	0.00001	0.00004	0.00004	0.00006	0.00016	0.00005	0.00006	0.00002	0.00002	0.00001	< 0.00001
Os [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	< 0.00001	< 0.00001	0.00001	0.00002	0.00004	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pt [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Rh [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	0.175	0.539	0.480	1.85	0.131	1.04	0.237	0.304	0.412	0.524	0.0062
Re [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	< 0.00001	0.00002	0.00002	0.00001	0.00018	0.00005	0.00005	0.00003	0.00001	< 0.00001	< 0.00001
Sc [mg/L]	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0001	0.0002	< 0.0001	0.0004
Ta [mg/L]	0.0011	0.0006	0.0002	0.0008	0.0005	0.0002	0.0003	0.0003	0.0004	0.0002	< 0.0001
Tb [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00005	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	0.0004	0.0016	0.0003	0.0015	0.0024	0.0009	0.0007	0.0004	0.0005	0.0001	< 0.0001
Tm [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	99	100	100	101	100	99	100	100	100	100	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	8.60	8.94	8.73	8.43	8.75	8.94	8.69	8.72	9.00	8.75	9.02
Conductivity [uS/cm]	235	402	363	381	286	213	355	379	290	289	188
Alkalinity [mg/L as CaCO3]	98	96	104	107	84	57	132	86	86	80	73

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LR Report : **CA11168-MAR25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.70	17.7	1.04	2.16	3.80	1.71	2.19	2.21	1.89	0.66	1.11
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	32	29	28	38	< 20	28	< 20	58	23	35	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	12.0	6.08	2.16	11.8	5.40	0.33	16.1	5.72	3.56	2.50	1.10
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	0.00013	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.053	0.230	0.077	0.016	0.034	0.175	0.016	0.041	0.121	0.611	0.032
As [mg/L]	33.5	18.2	24.9	53.3	19.5	1.32	79.5	35.5	25.7	23.8	6.11
Ba [mg/L]	0.00223	0.00409	0.00496	0.00800	0.00673	0.00177	0.00711	0.00544	0.00405	0.00346	0.00294
Be [mg/L]	0.000007	0.000099	0.000009	0.000012	0.000017	0.000026	0.000012	0.000047	0.000022	0.000032	0.000008
B [mg/L]	0.063	0.163	0.046	0.172	0.113	0.049	0.108	0.102	0.133	0.125	0.060
Bi [mg/L]	0.00001	0.00006	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00001	0.00003	0.00002	0.00001	0.00003
Ca [mg/L]	8.94	5.32	7.34	21.3	10.9	10.8	12.1	24.9	8.11	7.48	6.21
Cd [mg/L]	0.000006	0.000013	< 0.000003	0.000025	0.000009	0.000005	0.000003	0.000007	0.000003	0.000021	0.000005
Co [mg/L]	0.000508	0.000586	0.00118	0.000321	0.000254	0.00108	0.000260	0.000360	0.00105	0.00371	0.000561
Cr [mg/L]	0.0839	0.180	0.0668	0.0304	0.0406	0.0577	0.00659	0.00707	0.110	0.175	0.0119
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	0.003	0.001
Fe [mg/L]	0.081	0.304	0.115	0.029	0.060	0.297	0.080	0.075	0.185	0.736	0.086
K [mg/L]	0.236	58.2	0.868	4.01	8.39	1.38	6.02	2.86	23.0	17.6	0.380
Li [mg/L]	0.0039	4.32	0.0089	0.134	0.381	0.889	0.0351	0.317	0.795	0.795	0.0031
Mg [mg/L]	21.1	7.36	27.5	29.3	17.5	9.92	30.9	19.2	13.1	17.7	13.7
Mn [mg/L]	0.00641	0.00740	0.00112	0.00249	0.00133	0.00542	0.00487	0.00284	0.00415	0.00730	0.00152
Mo [mg/L]	0.0007	0.0013	0.0013	0.0160	0.0040	0.0016	0.0005	0.0054	0.0028	0.0012	0.0004
Na [mg/L]	7.44	6.54	19.0	7.76	7.64	7.84	9.23	14.2	8.92	6.08	7.69
Ni [mg/L]	0.0431	0.0074	0.0372	0.146	0.0249	0.0087	0.0850	0.0747	0.0136	0.0339	0.0112
P [mg/L]	0.011	0.016	0.029	0.010	0.007	0.013	0.026	0.027	0.025	0.047	0.010
Pb [mg/L]	< 0.00009	0.00024	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00019	< 0.00009
Sb [mg/L]	2.34	1.69	8.02	8.23	5.86	0.999	8.02	4.29	2.39	2.22	3.83
Se [mg/L]	0.00036	0.00210	0.00047	0.00089	0.00047	0.00104	0.00078	0.01009	0.00051	0.00053	0.00091
Si [mg/L]	13.6	7.48	11.6	19.6	12.9	5.18	24.2	13.9	13.1	12.4	18.3
Sn [mg/L]	< 0.00006	0.00057	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00036	< 0.00006	< 0.00006	0.00007	0.00012
Sr [mg/L]	0.0269	0.00510	0.00993	0.0545	0.0248	0.0153	0.0154	0.0586	0.0389	0.0267	0.0103
Ti [mg/L]	0.0002	0.0086	0.0005	0.0004	0.0008	0.0050	0.0003	0.0010	0.0030	0.0160	0.0003
Tl [mg/L]	0.000064	0.00785	0.000010	0.000133	0.000192	0.000045	0.000129	0.000076	0.00122	0.00128	0.000024

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LR Report : **CA11168-MAR25**

Analysis	29: VIS-CV5-UM-280	30: VIS-CV5-UM-281	31: VIS-CV5-UM-282	32: VIS-CV5-UM-283	33: VIS-CV5-UM-284	34: VIS-CV5-UM-285	35: VIS-CV5-UM-286	36: VIS-CV5-UM-287	37: VIS-CV5-UM-288	38: VIS-CV5-UM-289	39: VIS-CV5-UM-290
U [mg/L]	0.000788	0.000283	0.000162	0.001075	0.000261	0.000505	0.000199	0.00851	0.000681	0.000170	0.000069
V [mg/L]	0.0322	0.0781	0.0551	0.0395	0.0609	0.0258	0.0218	0.0505	0.0634	0.0613	0.0240
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002
Au [mg/L]	0.00002	< 0.00001	0.00001	0.00007	0.00003	0.00002	0.00003	0.00005	< 0.00001	0.00001	< 0.00001
Ce [mg/L]	---	---	---	0.00002	---	---	---	0.00004	---	---	---
Cs [mg/L]	---	---	---	0.104	---	---	---	0.134	---	---	---
Dy [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Er [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Eu [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ga [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Gd (tot) [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ge [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Hf [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ho [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
In [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Ir [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
La [mg/L]	---	---	---	0.00029	---	---	---	0.00017	---	---	---
Lu [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nb [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Nd [mg/L]	---	---	---	< 0.00001	---	---	---	0.00001	---	---	---
Os [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pd [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Pr [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Pt [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Rh [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Rb [mg/L]	---	---	---	0.342	---	---	---	0.0787	---	---	---
Re [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Ru [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Sc [mg/L]	---	---	---	0.0006	---	---	---	0.0004	---	---	---
Ta [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tb [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---
Te [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Th [mg/L]	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---	---
Tm [mg/L]	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---	---

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LR Report : **CA11168-MAR25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Sample Date & Time	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample weight [g]	100	100	100	100	100	100	100	101	100	101	100
Volume D.I. Water [mL]	400	400	400	400	400	400	400	400	400	400	400
pH [No unit]	9.25	8.91	9.13	9.30	9.49	9.39	8.60	8.59	8.52	8.43	8.87
Conductivity [uS/cm]	204	262	154	162	149	166	350	299	213	233	196
Alkalinity [mg/L as CaCO3]	86	99	68	66	60	57	95	82	69	57	69
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
F [mg/L]	0.29	0.51	0.97	0.91	1.04	2.99	0.80	6.38	1.80	1.15	0.76
Br [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	28	< 20	< 20
SO4 [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	33	< 20	140	28	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	4.18	7.54	0.62	< 0.03	0.10	0.68	7.40	4.91	0.32	1.40	1.18
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 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	< 0.00005	0.00007	0.00010	< 0.00005
Al [mg/L]	0.117	0.039	0.180	0.264	0.452	0.202	0.056	0.058	0.222	0.109	0.213
As [mg/L]	12.3	43.1	3.85	0.188	0.471	2.15	42.2	14.5	1.61	4.34	3.36
Ba [mg/L]	0.00267	0.00237	0.00116	0.00060	0.00103	0.00127	0.00429	0.00397	0.00178	0.00147	0.00195
Be [mg/L]	< 0.000007	0.000012	0.000021	< 0.000007	0.000014	0.000024	0.000014	< 0.000007	0.000040	< 0.000007	0.000020
B [mg/L]	0.048	0.059	0.049	0.035	0.092	0.076	0.057	0.165	0.075	0.060	0.139
Bi [mg/L]	0.00002	0.00001	0.00003	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00002	0.00003	0.00006	0.00002
Ca [mg/L]	5.77	9.62	4.34	5.13	4.27	7.18	11.1	6.06	8.93	9.18	7.22
Cd [mg/L]	< 0.000003	0.000004	0.000009	0.000004	0.000008	< 0.000003	0.000007	0.000008	0.000013	0.000009	0.000014
Co [mg/L]	0.000631	0.000959	0.00118	0.000093	0.000367	0.000365	0.00119	0.000154	0.000578	0.000628	0.000559
Cr [mg/L]	0.185	0.0827	0.0872	0.0983	0.0465	0.0446	0.136	0.157	0.0350	0.124	0.0725
Cu [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.002	< 0.001	0.002	< 0.001	0.001	0.003
Fe [mg/L]	0.160	0.115	0.400	0.046	0.383	0.287	0.102	0.022	0.335	0.128	0.246
K [mg/L]	3.83	0.760	0.483	0.713	5.57	4.18	0.404	33.1	2.54	3.06	6.86
Li [mg/L]	0.0621	0.0036	0.0053	0.827	2.03	1.66	0.0098	2.57	0.962	0.545	1.15
Mg [mg/L]	14.8	22.4	12.4	8.76	2.43	3.74	28.9	7.88	9.36	10.4	4.88
Mn [mg/L]	0.00167	0.00103	0.00397	0.00083	0.00773	0.00892	0.00153	0.00142	0.0157	0.00280	0.00590
Mo [mg/L]	0.0007	< 0.0004	0.0009	0.0040	0.0021	0.0007	0.0047	0.0032	0.0140	0.0024	0.0144
Na [mg/L]	8.32	7.26	7.26	6.62	10.6	11.9	8.03	8.08	10.3	9.05	10.5
Ni [mg/L]	0.0140	0.0707	0.0151	0.0010	0.0019	0.0028	0.0411	0.0028	0.0029	0.0047	0.0035
P [mg/L]	0.015	0.008	0.009	< 0.003	0.011	0.013	0.013	0.029	0.018	0.024	0.021
Pb [mg/L]	0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00109	0.00014	0.00011	0.00013
Sb [mg/L]	1.30	1.49	0.462	0.0795	0.0640	0.162	1.48	0.429	0.346	0.299	0.529

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LR Report : **CA11168-MAR25**

Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Se [mg/L]	0.00057	0.00037	0.00023	0.00063	0.00021	0.00037	0.00157	0.00045	0.00052	0.00122	0.00055
Si [mg/L]	13.0	19.6	15.3	2.48	5.28	8.34	18.8	7.47	5.24	4.80	4.96
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00009	< 0.00006	< 0.00006	0.00011	0.00010	0.00036
Sr [mg/L]	0.0170	0.0167	0.0103	0.00884	0.00618	0.0134	0.0337	0.0130	0.0184	0.0102	0.0107
Ti [mg/L]	0.0006	0.0005	0.0008	0.0009	0.0134	0.0073	0.0007	0.0006	0.0033	0.0021	0.0067
Tl [mg/L]	0.000057	0.000008	0.000024	0.000011	0.000040	0.000194	0.000030	0.000936	0.000022	0.000036	0.000075
U [mg/L]	0.000223	0.000172	0.000294	0.000087	0.000206	0.000508	0.000108	0.000452	0.000406	0.000899	0.000593
V [mg/L]	0.0327	0.0414	0.0221	0.0217	0.0716	0.103	0.0361	0.0659	0.0372	0.0365	0.0571
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.002	< 0.002
Au [mg/L]	0.00007	0.00021	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	< 0.00001	0.00002	< 0.00001
Ce [mg/L]	0.00003	---	---	---	0.00002	---	---	---	0.00005	---	---
Cs [mg/L]	0.0795	---	---	---	0.0108	---	---	---	0.0179	---	---
Dy [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---	---
Er [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00001	---	---
Eu [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ga [mg/L]	0.0008	---	---	---	0.0019	---	---	---	0.0013	---	---
Gd (tot) [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00002	---	---
Ge [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Hf [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ho [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
In [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Ir [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
La [mg/L]	0.00006	---	---	---	0.00002	---	---	---	0.00004	---	---
Lu [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nb [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Nd [mg/L]	0.00001	---	---	---	0.00002	---	---	---	0.00004	---	---
Os [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pd [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Pr [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Pt [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Rh [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Rb [mg/L]	0.156	---	---	---	0.131	---	---	---	0.0364	---	---
Re [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Ru [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---
Sm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	0.00001	---	---
Sc [mg/L]	0.0004	---	---	---	0.0002	---	---	---	0.0004	---	---
Ta [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tb [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

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Analysis	40: VIS-CV5-UM-291	41: VIS-CV5-UM-292	42: VIS-CV5-UM-293	43: VIS-CV5-UM-294	44: VIS-CV5-UM-295	45: VIS-CV5-UM-296	46: VIS-CV5-UM-297	47: VIS-CV5-UM-298	48: VIS-CV5-UM-299	49: VIS-CV5-UM-300	50: VIS-CV5-UM-301
Te [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Th [mg/L]	< 0.0001	---	---	---	< 0.0001	---	---	---	< 0.0001	---	---
Tm [mg/L]	< 0.00001	---	---	---	< 0.00001	---	---	---	< 0.00001	---	---

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Sample Date & Time	NA	NA			
Sample weight [g]	100	100	101	100	< 0.001
Volume D.I. Water [mL]	400	400	400	400	400
pH [No unit]	8.86	8.90	8.71	8.82	6.50
Conductivity [uS/cm]	196	313	241	202	6
Alkalinity [mg/L as CaCO3]	51	79	58	58	2
Acidity [mg/L as CaCO3]	< 2	< 2	< 2	< 2	2
F [mg/L]	0.27	2.70	1.12	0.75	< 0.06
Br [mg/L]	< 30	< 30	< 30	< 30	< 30
Cl [mg/L]	< 20	< 20	< 20	< 20	< 20
SO4 [mg/L]	< 20	21	25	< 20	< 20
NO2 [as N mg/L]	< 3	< 3	< 3	< 3	< 3
NO3 [as N mg/L]	< 6	< 6	< 6	< 6	< 6
Tot.Reactive P [mg/L]	0.33	0.05	1.43	1.18	< 0.03
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00005	0.00009	< 0.00005	< 0.00005
Al [mg/L]	0.285	0.171	0.139	0.264	0.001
As [mg/L]	1.46	0.254	4.22	3.37	0.0036
Ba [mg/L]	0.00164	0.00218	0.00171	0.00210	0.00020
Be [mg/L]	0.000010	0.000078	0.000009	0.000033	< 0.000007
B [mg/L]	0.145	0.157	0.058	0.136	< 0.002
Bi [mg/L]	0.00002	0.00001	0.00006	0.00002	< 0.00001
Ca [mg/L]	4.82	7.88	9.93	7.60	0.03
Cd [mg/L]	0.000003	0.000006	0.000013	0.000015	0.000006
Co [mg/L]	0.000084	0.000194	0.000704	0.000593	< 0.000004
Cr [mg/L]	0.0260	0.00676	0.134	0.0755	< 0.00008
Cu [mg/L]	< 0.001	< 0.001	0.002	0.003	< 0.001
Fe [mg/L]	0.027	0.199	0.182	0.325	< 0.007
K [mg/L]	15.0	10.8	3.48	8.66	0.057
Li [mg/L]	1.50	1.20	0.561	1.18	0.0006

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Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Mg [mg/L]	3.10	4.92	11.2	5.04	0.010
Mn [mg/L]	0.00085	0.00317	0.00382	0.00734	0.00027
Mo [mg/L]	0.0021	0.0073	0.0021	0.0144	< 0.0004
Na [mg/L]	8.17	28.8	9.69	10.9	0.47
Ni [mg/L]	0.0011	0.0016	0.0052	0.0037	< 0.0001
P [mg/L]	0.005	0.026	0.026	0.021	< 0.003
Pb [mg/L]	< 0.00009	0.00013	0.00014	0.00013	< 0.00009
Sb [mg/L]	0.0414	0.674	0.312	0.524	< 0.0009
Se [mg/L]	0.00387	0.00084	0.00111	0.00058	< 0.00004
Si [mg/L]	3.96	3.92	4.75	5.12	< 0.02
Sn [mg/L]	< 0.00006	0.00013	0.00008	0.00039	< 0.00006
Sr [mg/L]	0.00539	0.0166	0.0111	0.0112	< 0.00008
Ti [mg/L]	0.0012	0.0058	0.0032	0.0096	< 0.0001
Tl [mg/L]	0.000028	0.000222	0.000043	0.000078	0.000017
U [mg/L]	0.000139	0.00267	0.000952	0.000607	0.000005
V [mg/L]	0.0337	0.0217	0.0386	0.0584	0.00002
Zn [mg/L]	< 0.002	< 0.002	0.002	< 0.002	< 0.002
Au [mg/L]	< 0.00001	0.00004	0.00002	< 0.00001	< 0.00001
Ce [mg/L]	---	0.00018	0.00002	0.00016	< 0.00001
Cs [mg/L]	---	0.0540	0.0116	0.0241	0.0014
Dy [mg/L]	---	< 0.00001	< 0.00001	0.00001	< 0.00001
Er [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Eu [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ga [mg/L]	---	0.0019	0.0005	0.0010	< 0.0001
Gd (tot) [mg/L]	---	0.00001	< 0.00001	0.00002	< 0.00001
Ge [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Hf [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ho [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
In [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ir [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
La [mg/L]	---	0.00011	0.00002	0.00009	< 0.00001
Lu [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nb [mg/L]	---	0.0003	< 0.0001	< 0.0001	< 0.0001
Nd [mg/L]	---	0.00009	0.00001	0.00007	< 0.00001
Os [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pd [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pr [mg/L]	---	0.00003	< 0.00001	0.00002	< 0.00001
Pt [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001

OnLine LIMS

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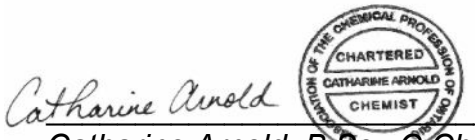
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LR Report : **CA11168-MAR25**

Analysis	51: VIS-CV5-UM-302	52: VIS-CV5-UM-303	53: VIS-CV5-UM-300	54: VIS-CV5-UM-301	55:BLK: CTEU Blank
Rh [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Rb [mg/L]	---	0.755	0.0519	0.256	0.0017
Re [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ru [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Sm [mg/L]	---	0.00001	< 0.00001	0.00001	< 0.00001
Sc [mg/L]	---	0.0001	0.0002	0.0002	< 0.0001
Ta [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tb [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Te [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th [mg/L]	---	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tm [mg/L]	---	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Method Descriptions

Parameter	Units	SGS Method Code
	g	NA
	mL	NA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

OnLine LIMS

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Quality Control Report

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Acidity - QCBatchID: EWL0017-APR25														
Acidity	2	mg/L as Ca	2			ND	20	102	90	110	NA			
Acidity - QCBatchID: EWL0037-APR25														
Acidity	2	mg/L as Ca	3			ND	20	108	90	110	NA			
Alkalinity - QCBatchID: EWL0017-APR25														
Alkalinity	2	mg/L as Ca	< 2			2	20	102	80	120	NA			
Alkalinity - QCBatchID: EWL0037-APR25														
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA			
Anions by IC - QCBatchID: DIO0008-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	99	75	125	
Chloride	0.2	mg/L	<0.2			0	20	101	90	110	99	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	103	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	102	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	101	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0027-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	102	90	110	100	75	125	
Chloride	0.2	mg/L	<0.2			9	20	99	90	110	99	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	99	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			5	20	98	90	110	101	75	125	
Sulphate	0.2	mg/L	<0.2			0	20	100	90	110	90	75	125	
Anions by IC - QCBatchID: DIO0030-APR25														
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	94	75	125	
Chloride	0.2	mg/L	<0.2			4	20	102	90	110	101	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	101	75	125	
Sulphate	0.2	mg/L	<0.2			15	20	101	90	110	100	75	125	
Anions by IC - QCBatchID: DIO0070-APR25														
Sulphate	0.2	mg/L	<0.2			19	20	107	90	110	97	75	125	
Anions by IC - QCBatchID: DIO0667-MAR25														
Bromide	0.3	mg/L	<0.3			ND	20	100	90	110	98	75	125	
Chloride	0.2	mg/L	<0.2			5	20	102	90	110	97	75	125	
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	101	90	110	100	75	125	
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	99	90	110	100	75	125	
Sulphate	0.2	mg/L	<0.2			1	20	100	90	110	93	75	125	
Conductivity - QCBatchID: EWL0017-APR25														
Conductivity	2	uS/cm	2			2	20	106	90	110	NA			

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Conductivity - QCBatchID: EWL0037-APR25														
Conductivity	2	uS/cm	2			1	20	100	90	110	NA			
Fluoride by Specific Ion Electrode - QCBatchID: EWL0002-APR25														
Fluoride	0.06	mg/L	<0.06			6	10	100	90	110	96	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0028-APR25														
Fluoride	0.06	mg/L	<0.06			0	10	97	90	110	94	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0038-APR25														
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	94	75	125	
Fluoride by Specific Ion Electrode - QCBatchID: EWL0063-APR25														
Fluoride	0.06	mg/L	<0.06			2	10	101	90	110	99	75	125	
Inorganics-General - QCBatchID: EHG0001-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	114	80	120	115	70	130	
Inorganics-General - QCBatchID: EHG0003-APR25														
Mercury	0.00001	mg/L	< 0.00001			ND	20	120	80	120	120	70	130	
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0011-APR25														
Aluminum	0.001	mg/L	<0.001			1	20	97	90	110	99	70	130	
Antimony	0.0009	mg/L	<0.0009			ND	20	99	90	110	99	70	130	
Arsenic	0.0002	mg/L	<0.0002			0	20	96	90	110	81	70	130	
Barium	0.00008	mg/L	<0.00008			4	20	92	90	110	88	70	130	
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	96	70	130	
Bismuth	0.00001	mg/L	<0.00001			ND	20	91	90	110	91	70	130	
Boron	0.002	mg/L	<0.002			2	20	99	90	110	103	70	130	
Cadmium	0.000003	mg/L	<0.000003			7	20	94	90	110	98	70	130	
Calcium	0.01	mg/L	<0.01			4	20	105	90	110	94	70	130	
Cerium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Cesium	0.0001	mg/L	<0.0001			ND	20	105	90	110	NV	70	130	
Chromium	0.00008	mg/L	<0.00008			3	20	94	90	110	103	70	130	
Cobalt	0.000004	mg/L	<0.000004			4	20	92	90	110	91	70	130	
Copper	0.001	mg/L	<0.001			2	20	91	90	110	73	70	130	
Dysprosium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Erbium	0.00001	mg/L	<0.0001			ND	20	91	90	110	NV	70	130	
Europium	0.00001	mg/L	<0.0001			ND	20	90	90	110	NV	70	130	
Gadolinium	0.00001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Germanium	0.0001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130	
Gold	0.00001	mg/L	<0.00001			20	20	101	90	110	NV	70	130	
Hafnium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130	
Holmium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130	
Iridium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130	
Iron	0.007	mg/L	<0.007			ND	20	107	90	110	75	70	130	

OnLine LIMS

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LR Report : **CA11168-MAR25**

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Lanthanum	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	94	90	110	82	70	130
Lithium	0.0001	mg/L	<0.0001			ND	20	98	90	110	88	70	130
Magnesium	0.001	mg/L	<0.001			0	20	103	90	110	93	70	130
Manganese	0.00001	mg/L	<0.00001			2	20	97	90	110	82	70	130
Molybdenum	0.0004	mg/L	<0.0004			5	20	101	90	110	89	70	130
Neodymium	0.00001	mg/L	<0.0001			ND	20	96	90	110	NV	70	130
Nickel	0.0001	mg/L	<0.0001			3	20	96	90	110	92	70	130
Niobium	0.0001	mg/L	<0.0001			18	20	102	90	110	NV	70	130
Osmium	0.0001	mg/L	<0.0001			ND	20	92	90	110	NV	70	130
Palladium	0.0001	mg/L	<0.0001			ND	20	104	90	110	NV	70	130
Phosphorus	0.003	mg/L	<0.003			2	20	104	90	110	NV	70	130
Platinum	0.0001	mg/L	<0.0001			ND	20	100	90	110	NV	70	130
Potassium	0.009	mg/L	<0.009			0	20	103	90	110	70	70	130
Praseodymium	0.00001	mg/L	<0.0001			ND	20	98	90	110	NV	70	130
Rhenium	0.0001	mg/L	<0.0001			ND	20	99	90	110	NV	70	130
Rhodium	0.00001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130
Rubidium	0.0001	mg/L	Error!			9	20	103	90	110	NV	70	130
Ruthenium	0.00001	mg/L	<0.0001			ND	20	103	90	110	NV	70	130
Samarium	0.00001	mg/L	<0.0001			ND	20	94	90	110	NV	70	130
Selenium	0.00004	mg/L	<0.00004			17	20	97	90	110	101	70	130
Silicon	0.02	mg/L	<0.02			1	20	99	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	91	90	110	80	70	130
Sodium	0.01	mg/L	<0.01			1	20	103	90	110	94	70	130
Strontium	0.00008	mg/L	<0.00008			3	20	92	90	110	91	70	130
Tantalum	0.0001	mg/L	<0.0001			12	20	95	90	110	NV	70	130
Tellurium	0.0001	mg/L	<0.0001			ND	20	95	90	110	NV	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	93	90	110	91	70	130
Thorium	0.0001	mg/L	<0.0001			ND	20	93	90	110	NV	70	130
Tin	0.00006	mg/L	<0.00006			ND	20	95	90	110	NV	70	130
Titanium	0.0001	mg/L	<0.0001			20	20	101	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			0	20	93	90	110	82	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	91	90	110	88	70	130
Zinc	0.002	mg/L	<0.002			7	20	96	90	110	89	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0054-APR25													
Arsenic	0.0002	mg/L	<0.0002			0	20	108	90	110	118	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0060-APR25													
Gallium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130
Indium	0.00001	mg/L	<0.00001			ND	20	102	90	110	NV	70	130

OnLine LIMS

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Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Lutetium	0.0001	mg/L	<0.0001			ND	20	97	90	110	NV	70	130	
Rubidium	0.0001	mg/L	<0.0001			4	20	98	90	110	NV	70	130	
Scandium	0.0001	mg/L	<0.0001			ND	20	101	90	110	NV	70	130	
Terbium	0.00001	mg/L	<0.00001			ND	20	99	90	110	NV	70	130	
Thulium	0.00001	mg/L	<0.00001			ND	20	98	90	110	NV	70	130	
pH - QCBatchID: EWL0017-APR25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0037-APR25														
pH	0.05	No unit	NA			1		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0010-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	97	90	110	124	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0013-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			2	10	99	90	110	107	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0027-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			1	10	95	90	110	95	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0036-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	98	90	110	92	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0093-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	96	90	110	NV	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0099-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			0	10	95	90	110	NV	75	125	
Reactive Phosphorus by SFA - QCBatchID: SKA0101-APR25														
Total Reactive Phosphorous (o-phosphate as P)	0.03	mg/L	<0.03			ND	10	99	90	110	92	75	125	

OnLine LTMS

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11201-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-AMP-088	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	25: VIS-CV5-AMP-105	29: VIS-CV5-AMP-109
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20	21	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:43	5.11	4.98	5.16	4.97	4.92	5.41
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:43	4720	4490	4840	4340	4280	5250
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:43	1530	1260	1630	1200	1060	2050
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1300	1560	1170	1640	1740	783
Fluoride [mg/L]	07-Jul-25	08:22	08-Jul-25	13:37	0.10	1.51	0.53	< 0.06	0.43	< 0.06
Bromide [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 20	22	< 20	< 20	70	< 20
Nitrite (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	12:44	10-Jul-25	12:51	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:54	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:43	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.52	1.6	1.1	1.9	0.27	0.25
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.004	0.367	0.040	0.029	0.002	0.009
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0287	0.0322	0.101	0.136	0.109	0.0319
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.14	0.17	0.15	0.15	0.17	0.14
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.00007	0.00343	0.00131	0.00048	0.00125	0.00008

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-AMP-088	20: VIS-CV5-AMP-100	21: VIS-CV5-AMP-101	22: VIS-CV5-AMP-102	25: VIS-CV5-AMP-105	29: VIS-CV5-AMP-109
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0002	0.0028	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	204	75.1	230	51.2	24.1	387
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.00022	0.00035	0.00016	0.00016	0.00004	0.00044
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0055	0.0107	0.0052	0.0110	0.0025	0.0028
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.00729	0.0732	0.0593	0.0207	0.0528	0.00890
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.01	0.06	0.02	0.02	< 0.01	0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	3.6	2.3	4.2	5.8	18.1	4.2
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1.4	5.9	4.9	9.7	2.7	1.3
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.018	0.285	0.169	0.242	0.084	0.055
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	2.6	5.0	4.3	3.2	4.5	2.4
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1.86	0.558	0.985	0.599	0.470	3.26
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	1470	1440	1400	1410	1390	1410
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.012	0.403	0.129	0.068	0.101	0.039
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.03	0.06	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	0.0173	0.0038	0.0022	0.0028	0.0022	0.0056
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.009	0.074	0.021	0.020	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:43	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0800	0.0704	0.0931	0.0496	0.0302	0.119
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.79	2.61	2.46	3.19	1.48	1.80
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0004	0.0016	0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.00005	0.00251	0.00085	0.00055	0.00013	0.00016
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00041	0.0118	0.00145	0.00046	0.00758	0.00033
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0007	0.0016	0.0008	0.0016	< 0.0001	0.0005
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.03	0.05	0.05	0.09	< 0.02	0.07

Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-115 - LAB DUP	55:BLK: $Reg347/TCLP1311 Blank#1
Sample weight [g]	20	20	20	20	---
Ext Fluid [#1 or #2]	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400
pH [No unit]	5.46	4.98	5.53	5.48	4.91
Conductivity [uS/cm]	5230	4360	5400	5340	4380
Alkalinity [mg/L as CaCO3]	2070	1260	2170	2120	1070
Acidity [mg/L as CaCO3]	665	1550	627	662	1720

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11201-JUL25

Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-115 - LAB DUP	55:BLK: $Reg347/TCLP1311 Blank#1
Fluoride [mg/L]	0.16	0.18	0.16	0.25	0.11
Bromide [mg/L]	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	< 20	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	0.16	0.91	0.10	0.13	< 0.01
Arsenic [mg/L]	0.034	0.006	0.028	0.030	< 0.002
Barium [mg/L]	0.0953	0.0622	0.0844	0.0835	0.0067
Boron [mg/L]	0.16	0.17	0.13	0.12	0.09
Beryllium [mg/L]	< 0.00007	0.00057	0.00007	0.00008	< 0.00007
Bismuth [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	424	61.7	436	434	1.0
Cadmium [mg/L]	0.00027	0.00019	0.00024	0.00023	< 0.00003
Chromium [mg/L]	0.0019	0.0066	0.0015	0.0018	0.0011
Cobalt [mg/L]	0.0921	0.0174	0.0842	0.0869	0.00014
Copper [mg/L]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.9	3.8	3.3	3.7	< 0.07
Potassium [mg/L]	2.9	5.0	1.8	1.9	0.71
Lithium [mg/L]	0.045	0.084	0.042	0.043	0.004
Magnesium [mg/L]	3.7	3.2	3.3	3.5	0.27
Manganese [mg/L]	3.75	0.585	3.63	3.83	0.0021
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1410	1350	1360	1430	1470
Nickel [mg/L]	0.156	0.055	0.146	0.149	0.003
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0011	0.0016	0.0016	0.0024	0.0028
Antimony [mg/L]	< 0.009	0.015	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.236	0.0417	0.224	0.222	0.00298
Silicon [mg/L]	2.15	2.83	1.97	1.97	0.18
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00017	0.00037	0.00016	0.00020	< 0.00005

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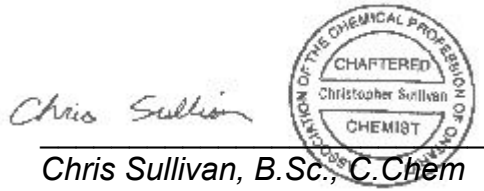
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Analysis	35: VIS-CV5-AMP-115	42: VIS-CV5-AMP-122	53: VIS-CV5-AMP-115 - LAB DUP	54: VIS-CV5-AMP-115 - LAB DUP	55:BLK: $Reg347/TCLP311 Blank#1
Uranium [mg/L]	0.00604	0.00157	0.00552	0.00556	0.00011
Vanadium [mg/L]	0.0002	0.0007	0.0002	0.0003	0.0001
Zinc [mg/L]	0.03	0.04	0.03	0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11201-JUL25**

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0145-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	99	75	125
Sulphate	0.2	mg/L	<0.2			3	20	101	90	110	105	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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LR Report : **CA11201-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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SGS Canada Inc.
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Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11202-JUL25**
Reference: Shaakichiuwaanaan

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: VIS-CV5-AMP-134	35: VIS-CV5-AMP-163	39: VIS-CV5-AMP-167
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	4.97	5.04	5.01
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4400	4610	4460
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1220	1410	1310
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1610	1440	1470
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	< 0.06	0.07	0.12
Bromide [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 30	< 30	< 30
Chloride [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 20	< 20	< 20
Sulphate [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 20	< 20	< 20
Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 3	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:31	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:55	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:45	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.86	0.84	1.2
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.165	0.079	< 0.002
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0232	0.0494	0.0205
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.15	0.13	0.22
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.00014	0.00102	0.00875

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11202-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: VIS-CV5-AMP-134	35: VIS-CV5-AMP-163	39: VIS-CV5-AMP-167
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	< 0.0001	0.0002	0.0005
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	64.3	122	95.3
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.00010	0.00144	< 0.00003
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0017	0.0196	0.0032
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:45	0.0160	0.0565	0.0139
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.01	< 0.01	0.02
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	6.8	15.5	3.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.2	4.1	1.7
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.037	0.049	0.058
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	2.0	3.8	9.8
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.418	0.670	0.491
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1460	1430	1430
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.015	0.203	0.008
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0086	0.0195	0.0032
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.009	0.075	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0526	0.0811	0.235
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	1.78	2.67	3.50
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00008	0.00011	0.00005
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.00125	0.0500	0.00237
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.0014	0.0001	0.0007
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:44	0.06	0.24	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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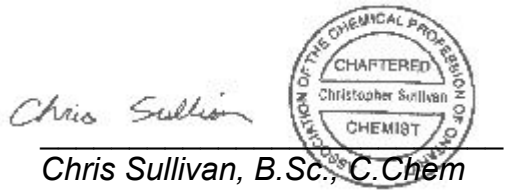
SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
	#1 or #2	NA		N
	g	NA	Sample weight	N
	mL	NA		N
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11202-JUL25

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0153-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	92	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	85	75	125
Nitrate (as N)	0.06	mg/L	<0.06			0	20	103	90	110	102	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			5	20	101	90	110	97	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11202-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

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H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11203-JUL25**
Reference: Shaakichiuwaanaan

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186	11: VIS-CV5-MS-187	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196	21: VIS-CV5-MS-197
Sample weight [g]	07-Jul-25	10:16	09-Jul-25	08:40	20	20	20	20	19	20
Ext Fluid [#1 or #2]	07-Jul-25	10:16	09-Jul-25	08:40	1	1	1	2	2	2
Ext Volume [mL]	07-Jul-25	13:48	09-Jul-25	08:40	400	400	400	400	400	400
pH [No unit]	09-Jul-25	10:02	17-Jul-25	11:09	4.96	4.98	5.55	6.12	5.53	5.91
Conductivity [uS/cm]	09-Jul-25	10:02	17-Jul-25	11:09	4760	4840	5990	6040	5720	5890
Alkalinity [mg/L as CaCO3]	08-Jul-25	15:12	10-Jul-25	11:47	1440	1500	2460	2900	2570	2800
Acidity [mg/L as CaCO3]	08-Jul-25	15:12	10-Jul-25	11:47	1610	1570	617	246	573	316
Fluoride [mg/L]	09-Jul-25	07:58	10-Jul-25	08:39	0.20	0.15	< 0.06	0.11	< 0.06	< 0.06
Bromide [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 20	< 20	< 20	< 20	< 20	< 20
Sulphate [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 20	< 20	< 20	24	< 20	< 20
Nitrite (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	09-Jul-25	02:47	10-Jul-25	13:14	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	08-Jul-25	15:04	09-Jul-25	08:21	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:46	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	1.3	1.0	0.05	< 0.01	0.03	0.01
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.004	0.008	0.004	0.011	0.088	0.141
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.0746	0.0923	0.0728	0.246	0.196	0.237
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.17	0.17	0.14	0.12	0.14	0.11
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:46	0.00063	0.00029	< 0.00007	< 0.00007	< 0.00007	< 0.00007

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Phone: 705-652-2000 FAX: 705-652-6365

TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11203-JUL25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: VIS-CV5-MS-185	10: VIS-CV5-MS-186	11: VIS-CV5-MS-187	19: VIS-CV5-MS-195	20: VIS-CV5-MS-196	21: VIS-CV5-MS-197
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	57.1	78.2	446	1960	1740	1900
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.00010	0.00017	0.00061	0.00140	0.00107	0.00080
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.0065	0.0104	0.0027	< 0.0008	0.0010	< 0.0008
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.00904	0.00721	0.00313	0.00977	0.0103	0.0116
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.02	0.02	< 0.01	< 0.01	0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	2.9	3.6	2.7	27.8	48.0	28.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	9.0	8.8	6.7	2.6	2.7	4.6
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.089	0.105	0.034	0.005	0.005	0.006
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	2.4	1.9	2.1	16.6	12.3	13.0
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	0.843	1.40	4.06	27.7	26.0	27.1
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:48	1370	1480	1360	6.7	6.3	6.2
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.014	0.013	0.006	0.094	0.187	0.383
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.0356	0.0931	0.0037	0.0012	0.0233	< 0.0009
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.0792	0.0769	0.235	2.45	2.39	2.06
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	2.36	2.05	0.93	1.55	1.58	1.46
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:49	0.00014	0.00020	0.00011	< 0.00005	< 0.00005	< 0.00005
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.00180	0.00211	0.00314	0.00095	0.00072	0.00086
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.0008	0.0009	0.0004	< 0.0001	0.0001	< 0.0001
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.03	0.03	0.02	< 0.02	0.07	< 0.02

Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Sample weight [g]	20	20	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	1	1	1	1	1	1	1	1	1	1
Ext Volume [mL]	400	400	400	400	400	400	400	400	400	400
pH [No unit]	4.95	4.92	4.90	4.95	4.95	4.91	4.99	4.91	5.07	4.92
Conductivity [uS/cm]	4670	4610	4800	4700	4720	4520	4780	4590	5050	4600
Alkalinity [mg/L as CaCO3]	1450	1380	1260	1420	1360	1340	1520	1260	1670	1410
Acidity [mg/L as CaCO3]	1520	1660	1740	1580	1680	1680	1570	1720	1300	1660

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Fluoride [mg/L]	0.67	0.74	4.05	0.13	4.91	5.54	1.71	2.20	< 0.06	0.12
Bromide [mg/L]	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Sulphate [mg/L]	< 20	< 20	87	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	0.96	1.5	2.7	0.41	3.7	3.7	2.0	0.75	0.40	1.4
Arsenic [mg/L]	0.009	< 0.002	0.003	0.018	0.019	0.458	0.385	0.004	0.005	0.127
Barium [mg/L]	0.0887	0.0863	0.0625	0.0397	0.0705	0.0649	0.0748	0.106	0.264	0.0665
Boron [mg/L]	0.20	0.16	0.16	0.16	0.21	0.25	0.15	0.16	0.14	0.16
Beryllium [mg/L]	0.00279	0.00026	0.00158	0.00093	0.00171	0.00368	0.00118	0.00010	0.00009	0.00098
Bismuth [mg/L]	0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0170	0.0006	0.0003	0.0002	0.0002
Calcium [mg/L]	56.4	17.0	12.4	52.1	32.6	8.7	76.7	7.8	157	17.5
Cadmium [mg/L]	0.00035	0.00011	0.00013	0.00008	0.00019	0.00206	0.00171	0.00004	0.00022	0.00017
Chromium [mg/L]	0.0114	0.0125	0.0093	0.0059	0.0211	0.0033	0.0040	0.0027	0.0170	0.0153
Cobalt [mg/L]	0.0255	0.00893	0.0305	0.0215	0.0334	0.0229	0.0221	0.00822	0.00285	0.0239
Copper [mg/L]	< 0.01	< 0.01	< 0.01	0.01	0.01	0.07	0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.3	4.8	24.9	1.3	3.7	2.4	2.2	2.6	4.9	2.8
Potassium [mg/L]	6.4	5.8	3.4	1.4	5.4	5.5	6.9	8.3	5.3	7.2
Lithium [mg/L]	0.131	0.147	0.181	0.050	0.216	0.410	0.215	0.039	0.042	0.171
Magnesium [mg/L]	2.9	1.8	3.2	1.9	2.4	1.8	1.2	0.78	3.0	3.1
Manganese [mg/L]	0.729	0.194	0.315	0.319	0.647	0.178	0.984	0.0354	2.59	0.103
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1420	1360	1310	1340	1420	1380	1380	1400	1390	1380
Nickel [mg/L]	0.034	0.015	0.071	0.024	0.049	0.040	0.061	0.008	0.012	0.170
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0098	0.0700	0.0222	0.0099	0.0520	0.304	0.0589	0.0047	0.0306	0.0070
Antimony [mg/L]	< 0.009	< 0.009	< 0.009	< 0.009	0.010	0.848	0.154	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.0597	0.0440	0.0177	0.0436	0.0417	0.0192	0.0755	0.0431	0.0616	0.0365
Silicon [mg/L]	2.42	2.04	1.28	0.93	2.78	2.69	2.15	1.29	1.23	2.91
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	0.0005	< 0.0004	0.0010	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00035	0.00017	0.00016	0.00028	0.00079	0.00388	0.00111	0.00008	0.00010	0.00053

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Analysis	22: VIS-CV5-MS-198	25: VIS-CV5-MS-201	26: VIS-CV5-MS-202	27: VIS-CV5-MS-203	31: VIS-CV5-MS-207	34: VIS-CV5-MS-210	36: VIS-CV5-MS-212	44: VIS-CV5-MS-220	45: VIS-CV5-MS-221	47: VIS-CV5-MS-223
Uranium [mg/L]	0.0137	0.00477	0.00362	0.00747	0.00507	0.00503	0.0147	0.0152	0.00411	0.00508
Vanadium [mg/L]	0.0004	0.0004	0.0001	0.0001	0.0011	0.0007	0.0013	0.0012	0.0006	0.0005
Zinc [mg/L]	0.08	< 0.02	0.06	< 0.02	0.05	0.38	0.18	0.03	0.05	0.04

Analysis	48: VIS-CV5-MS-224	51: VIS-CV5-MS-227	54:BLK: $Reg347/TCLP1311 Blank#1	55:BLK: $Reg347/TCLP1311 Blank#2
Sample weight [g]	20	20	< 0.001	< 0.001
Ext Fluid [#1 or #2]	1	1	1	2
Ext Volume [mL]	400	400	400	400
pH [No unit]	4.92	4.94	3.66	2.89
Conductivity [uS/cm]	4610	4690	4650	536
Alkalinity [mg/L as CaCO3]	1330	1390	1300	< 2
Acidity [mg/L as CaCO3]	1670	1610	1700	4880
Fluoride [mg/L]	0.22	0.10	< 0.06	< 0.06
Bromide [mg/L]	< 30	< 30	< 30	< 30
Chloride [mg/L]	< 20	< 20	< 20	< 20
Sulphate [mg/L]	< 20	< 20	< 20	< 20
Nitrite (as N) [mg/L]	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	1.6	0.87	< 0.01	< 0.01
Arsenic [mg/L]	0.005	0.003	< 0.002	< 0.002
Barium [mg/L]	0.0646	0.0719	0.0013	< 0.0008
Boron [mg/L]	0.15	0.14	< 0.02	< 0.02
Beryllium [mg/L]	0.00125	0.00039	< 0.00007	< 0.00007
Bismuth [mg/L]	0.0001	< 0.0001	< 0.0001	0.0002
Calcium [mg/L]	9.2	35.6	< 0.1	0.2
Cadmium [mg/L]	0.00078	0.00011	< 0.00003	< 0.00003
Chromium [mg/L]	0.0054	0.0037	0.0010	< 0.0008
Cobalt [mg/L]	0.0343	0.0117	0.00008	0.00008
Copper [mg/L]	0.02	< 0.01	< 0.01	< 0.01
Iron [mg/L]	3.2	6.2	< 0.07	< 0.07
Potassium [mg/L]	7.0	7.2	0.55	2.1

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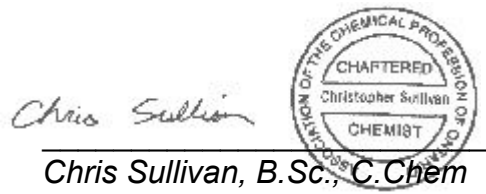
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Analysis	48: VIS-CV5-MS-224	51: VIS-CV5-MS-227	54:BLK: $Reg347/TCLP1311 Blank#1	55:BLK: $Reg347/TCLP1311 Blank#2
Lithium [mg/L]	0.150	0.112	0.004	0.001
Magnesium [mg/L]	2.8	3.1	< 0.01	< 0.01
Manganese [mg/L]	0.203	0.523	0.0004	0.0020
Molybdenum [mg/L]	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	1370	1400	1430	0.2
Nickel [mg/L]	0.077	0.025	< 0.001	< 0.001
Phosphorus [mg/L]	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	0.0567	0.0543	< 0.0009	< 0.0009
Antimony [mg/L]	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Strontium [mg/L]	0.0344	0.0268	0.00015	0.00026
Silicon [mg/L]	2.83	1.54	< 0.02	< 0.02
Selenium [mg/L]	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	0.00056	0.00062	< 0.00005	< 0.00005
Uranium [mg/L]	0.00722	0.00868	< 0.00002	< 0.00002
Vanadium [mg/L]	0.0003	< 0.0001	< 0.0001	< 0.0001
Zinc [mg/L]	0.15	0.03	< 0.02	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a “Y” in the “PALA” column in the table denote ISO/IEC17025:2005 accreditation

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LR Report : CA11203-JUL25

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Acidity - QCBatchID: EWL0158-JUL25													
Acidity	2	mg/L as Ca	< 2			18	20	98	90	110	NA		
Alkalinity - QCBatchID: EWL0140-JUL25													
Alkalinity	2	mg/L as Ca	< 2			1	20	102	80	120	NA		
Alkalinity - QCBatchID: EWL0158-JUL25													
Alkalinity	2	mg/L as Ca	< 2			3	20	104	80	120	NA		
Anions by IC - QCBatchID: DIO0187-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	101	90	110	98	75	125
Chloride	0.2	mg/L	<0.2			ND	20	104	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	104	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	105	75	125
Sulphate	0.2	mg/L	<0.2			ND	20	101	90	110	105	75	125
Anions by IC - QCBatchID: DIO0189-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	97	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	83	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	101	90	110	102	75	125
Sulphate	0.2	mg/L	<0.2			14	20	101	90	110	100	75	125
Conductivity - QCBatchID: EWL0163-JUL25													
Conductivity	2	uS/cm	< 2			0	10	99	90	110	NA		
Conductivity - QCBatchID: EWL0315-JUL25													
Conductivity	2	uS/cm	< 2			0	10	100	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0144-JUL25													
Fluoride	0.06	mg/L	<0.06			ND	10	97	90	110	98	75	125
Fluoride by Specific Ion Electrode - QCBatchID: EWL0173-JUL25													
Fluoride	0.06	mg/L	<0.06			8	10	104	90	110	103	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11203-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)		
							%		Low	High		Low	High	
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130	
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130	
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130	
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130	
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130	
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130	
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130	
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130	
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130	
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130	
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130	
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130	
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130	
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130	
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130	
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110	96	70	130	
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110	NV	70	130	
Potassium	0.09	mg/L	<0.009			0	20	96	90	110	87	70	130	
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110	112	70	130	
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110	NV	70	130	
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110	103	70	130	
Sodium	0.1	mg/L	<0.01			2	20	100	90	110	105	70	130	
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110	98	70	130	
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110	90	70	130	
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110	NV	70	130	
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110	NV	70	130	
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110	89	70	130	
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110	96	70	130	
Zinc	0.02	mg/L	<0.002			1	20	99	90	110	98	70	130	
pH - QCBatchID: EWL0163-JUL25														
pH	0.05	No unit	NA			0		100			NA			
pH - QCBatchID: EWL0315-JUL25														
pH	0.05	No unit	NA			0		100			NA			
Reactive Phosphorus by SFA - QCBatchID: SKA0069-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			6	10	97	90	110	96	75	125	

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11204-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	7: VIS-CV5-MS-231	10: VIS-CV5-MS-234	15: VIS-CV5-MS-239	26: VIS-CV5-MS-250	29: VIS-CV5-MS-253	32: VIS-CV5-MS-256	53: VIS-CV5-MS-231 - LAB DUP
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:39	20	20	20	20	20	20	20	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:39	1	1	1	1	1	1	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:39	400	400	400	400	400	400	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	5.11	4.92	4.93	5.11	5.19	4.99	4.95	4.92
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4740	4230	4270	4770	4950	4420	4340	4270
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1530	1100	1120	1540	1670	1260	1200	1100
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1310	1700	1710	1270	1100	1560	1630	1720
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	< 0.06	0.49	0.11	0.11	0.06	0.41	1.48	1.09
Bromide [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Chloride [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Sulphate [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 20	< 20	< 20	< 20	< 20	24	< 20	< 20
Nitrite (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Nitrate (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	09-Jul-25	15:19	10-Jul-25	12:54	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:56	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:51	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.55	0.92	1.1	0.81	0.39	0.79	2.1	0.91
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.002	< 0.002	0.012	0.006	0.005	0.003	0.004	< 0.002
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.265	0.111	0.0760	0.112	0.0145	0.0915	0.162	0.120
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.13	0.14	0.15	0.15	0.11	0.13	0.19	0.15
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	0.00008	0.00056	0.00047	0.00036	0.00008	0.00024	0.00035	0.00059

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11204-JUL25

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: VIS-CV5-MS-229	7: VIS-CV5-MS-231	10: VIS-CV5-MS-234	15: VIS-CV5-MS-239	26: VIS-CV5-MS-250	29: VIS-CV5-MS-253	32: VIS-CV5-MS-256	53: VIS-CV5-MS-231 - LAB DUP
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0001	0.0001	0.0002	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:51	189	11.5	13.7	194	254	78.1	33.4	13.0
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00022	0.00003	0.00026	0.00018	0.00008	0.00009	0.00008	0.00003
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0066	0.0262	0.0064	0.0072	0.0018	0.0018	0.0110	0.0260
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0119	0.00664	0.0145	0.0155	0.00220	0.00462	0.00663	0.00675
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	8.5	4.9	3.4	4.5	14.7	20.2	5.8	5.3
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	12.9	7.7	7.9	4.2	1.0	5.0	9.9	8.1
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.088	0.051	0.185	0.086	0.013	0.089	0.183	0.053
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	2.4	1.3	1.8	2.7	2.6	0.97	2.2	1.4
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	2.62	0.0709	0.174	0.894	2.85	0.496	0.395	0.0785
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	1430	1440	1420	1440	1430	1430	1350	1440
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.059	0.018	0.019	0.060	< 0.001	0.046	0.016	0.018
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0257	0.0042	0.0172	0.0134	0.0026	0.0030	0.0043	0.0053
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.009	< 0.009	< 0.009	0.053	< 0.009	< 0.009	< 0.009	< 0.009
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	0.0028	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.119	0.0202	0.0381	0.0856	0.0948	0.0489	0.0390	0.0214
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	1.41	1.45	2.15	1.82	1.36	1.20	2.87	1.65
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00082	0.00052	0.00025	0.00028	< 0.00005	< 0.00005	0.00018	0.00043
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.00055	0.00450	0.00931	0.00079	0.00150	0.00223	0.00260	0.00461
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.0001	0.0002	0.0009	0.0008	< 0.0001	< 0.0001	0.0020	0.0002
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:52	0.12	0.02	0.08	0.07	< 0.02	< 0.02	0.03	< 0.02

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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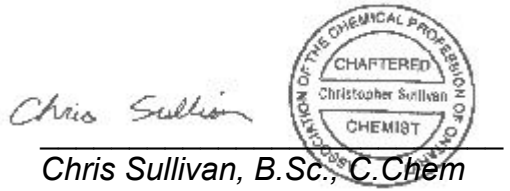
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Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11204-JUL25

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0145-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	91	75	125
Chloride	0.2	mg/L	<0.2			ND	20	103	90	110	97	75	125
Nitrate (as N)	0.06	mg/L	<0.06			ND	20	103	90	110	101	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	99	75	125
Sulphate	0.2	mg/L	<0.2			3	20	101	90	110	105	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11204-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

13-August-2025

Innova Lithium Inc.
Attn : John Drapack

1801 McGill College Avenue, Suite 900,
Montreal, Quebec
H3A 1Z4, Canada

Phone: 647-782-7386
Fax:

Date Rec. : 03 July 2025
LR Report: **CA11205-JUL25**
Reference: Shaakichiuwaanaan

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-UM-307	27: VIS-CV5-UM-326
Sample weight [g]	04-Jul-25	09:23	07-Jul-25	11:40	21	20
Ext Fluid [#1 or #2]	06-Jul-25	11:04	07-Jul-25	11:40	1	1
Ext Volume [mL]	06-Jul-25	11:04	07-Jul-25	11:40	400	400
pH [No unit]	07-Jul-25	14:02	09-Jul-25	08:44	4.95	4.98
Conductivity [uS/cm]	07-Jul-25	14:02	09-Jul-25	08:44	4300	4410
Alkalinity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	08:44	1170	1250
Acidity [mg/L as CaCO3]	07-Jul-25	14:02	09-Jul-25	13:37	1700	1600
Fluoride [mg/L]	07-Jul-25	08:22	07-Jul-25	13:41	0.47	0.61
Bromide [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 30	< 30
Chloride [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 20	< 20
Sulphate [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 20	< 20
Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 3	< 3
Nitrate (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 6	< 6
Nitrate + Nitrite (as N) [mg/L]	07-Jul-25	17:49	08-Jul-25	12:32	< 6	< 6
Total Reactive Phosphorous (o-phosphate as P) [mg/L]	07-Jul-25	11:45	08-Jul-25	13:56	< 0.3	< 0.3
Mercury [mg/L]	09-Jul-25	13:31	11-Jul-25	14:53	< 0.00001	< 0.00001
Silver [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0005	< 0.0005
Aluminum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.74	0.96
Arsenic [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.648	0.165
Barium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0596	0.0149
Boron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.19	0.23
Beryllium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00121	0.0103

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11205-JUL25**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	8: VIS-CV5-UM-307	27: VIS-CV5-UM-326
Bismuth [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0003	< 0.0001
Calcium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	32.3	61.5
Cadmium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00017	0.00140
Chromium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0167	0.0290
Cobalt [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0363	0.365
Copper [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.01	< 0.01
Iron [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	2.7	4.7
Potassium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	3.4	5.9
Lithium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.105	0.147
Magnesium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	3.4	18.5
Manganese [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.292	0.452
Molybdenum [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.004	< 0.004
Sodium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	1410	1400
Nickel [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.388	0.440
Phosphorus [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.03	< 0.03
Lead [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0080	0.0470
Antimony [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.127	0.199
Tin [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0006	< 0.0006
Strontium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0466	0.472
Silicon [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	1.97	6.62
Selenium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.0004	< 0.0004
Titanium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	< 0.001	< 0.001
Thallium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.00182	0.00036
Uranium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0117	0.00047
Vanadium [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.0017	0.0018
Zinc [mg/L]	09-Jul-25	23:07	11-Jul-25	14:53	0.03	0.16

Extraction Fluid #1 - pH 4.93 ± 0.05
5.7mLs of acetic acid plus 64.3 mLs of 1.0N NaOH bulked to 1L with deionized water.

Extraction Fluid #2 - pH 2.88 ± 0.05
5.7 mLs of acetic acid bulked to 1L with deionized water.

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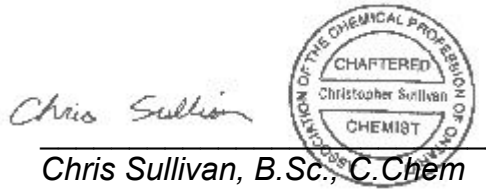
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P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Method Descriptions

Parameter	Units	SGS Method Code	Reference Method Code	PALA
Acidity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2310	N
Alkalinity	mg/L as CaCO3	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320	N
Anions by IC	mg/L	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3	Y
Conductivity	uS/cm	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510	Y
Fluoride by Specific Ion Electrode	mg/L	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500	Y
Inorganics-General	mg/L	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B	Y
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	N
Metals in aqueous samples - ICP-MS	mg/L	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8	Y
pH	No unit	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500	Y
Reactive Phosphorus by SFA	mg/L	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F	N

Accreditation Descriptions

PALA:
SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025:2005 for specific tests as listed on their scope of accreditation found at https://www.ceaeq.gouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025:2005 accreditation



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : CA11205-JUL25

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
Acidity - QCBatchID: EWL0140-JUL25													
Acidity	2	mg/L as Ca	< 2			1	20	104	90	110	NA		
Alkalinity - QCBatchID: EWL0107-JUL25													
Alkalinity	2	mg/L as Ca	< 2			0	20	102	80	120	NA		
Anions by IC - QCBatchID: DIO0153-JUL25													
Bromide	0.3	mg/L	<0.3			ND	20	99	90	110	92	75	125
Chloride	0.2	mg/L	<0.2			ND	20	102	90	110	85	75	125
Nitrate (as N)	0.06	mg/L	<0.06			0	20	103	90	110	102	75	125
Nitrate + Nitrite (as N)	0.06	mg/L	<0.06			NA		NA			NA		
Nitrite (as N)	0.03	mg/L	<0.03			ND	20	100	90	110	101	75	125
Sulphate	0.2	mg/L	<0.2			5	20	101	90	110	97	75	125
Conductivity - QCBatchID: EWL0107-JUL25													
Conductivity	2	uS/cm	< 2			0	10	95	90	110	NA		
Fluoride by Specific Ion Electrode - QCBatchID: EWL0096-JUL25													
Fluoride	0.06	mg/L	<0.06			0	10	101	90	110	100	75	125
Inorganics-General - QCBatchID: EHG0009-JUL25													
Mercury	0.00001	mg/L	< 0.00001			ND	20	119	80	120	123	70	130
Metals in aqueous samples - ICP-MS - QCBatchID: EMS0067-JUL25													
Aluminum	0.01	mg/L	<0.001			0	20	97	90	110	98	70	130
Antimony	0.009	mg/L	<0.0009			0	20	101	90	110	82	70	130
Arsenic	0.002	mg/L	<0.0002			4	20	99	90	110	102	70	130
Barium	0.0008	mg/L	<0.00008			1	20	101	90	110	97	70	130
Beryllium	0.00007	mg/L	<0.000007			ND	20	99	90	110	88	70	130
Bismuth	0.0001	mg/L	<0.00001			ND	20	99	90	110	92	70	130
Boron	0.02	mg/L	<0.002			ND	20	103	90	110	95	70	130
Cadmium	0.00003	mg/L	<0.000003			ND	20	100	90	110	96	70	130
Calcium	0.1	mg/L	<0.01			1	20	97	90	110	100	70	130
Chromium	0.0008	mg/L	<0.00008			8	20	101	90	110	102	70	130
Cobalt	0.00004	mg/L	<0.000004			3	20	99	90	110	98	70	130
Copper	0.01	mg/L	<0.001			2	20	99	90	110	104	70	130
Iron	0.07	mg/L	<0.007			0	20	102	90	110	100	70	130
Lead	0.0009	mg/L	<0.00009			1	20	98	90	110	116	70	130
Lithium	0.001	mg/L	<0.0001			ND	20	102	90	110	86	70	130
Magnesium	0.01	mg/L	<0.001			0	20	98	90	110	98	70	130
Manganese	0.0001	mg/L	<0.00001			2	20	98	90	110	94	70	130
Molybdenum	0.004	mg/L	<0.0004			ND	20	101	90	110	96	70	130

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TCLP1311--(Quebec Modified Version - MA. 100 -Lix.com.1.0)20:1 L/S ratio, 18hr

LR Report : **CA11205-JUL25**

Inorganic Analysis														
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank				Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)			Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High			Low	High
Nickel	0.001	mg/L	<0.0001			3	20	101	90	110		96	70	130
Phosphorus	0.03	mg/L	<0.003			ND	20	97	90	110		NV	70	130
Potassium	0.09	mg/L	<0.009			0	20	96	90	110		87	70	130
Selenium	0.0004	mg/L	<0.00004			ND	20	102	90	110		112	70	130
Silicon	0.02	mg/L	<0.02			ND	20	98	90	110		NV	70	130
Silver	0.0005	mg/L	<0.00005			ND	20	96	90	110		103	70	130
Sodium	0.1	mg/L	<0.01			2	20	100	90	110		105	70	130
Strontium	0.00008	mg/L	<0.00008			4	20	99	90	110		98	70	130
Thallium	0.00005	mg/L	<0.000005			ND	20	99	90	110		90	70	130
Tin	0.0006	mg/L	<0.00006			ND	20	105	90	110		NV	70	130
Titanium	0.001	mg/L	<0.0001			ND	20	102	90	110		NV	70	130
Uranium	0.00002	mg/L	<0.000002			0	20	100	90	110		89	70	130
Vanadium	0.0001	mg/L	<0.00001			0	20	97	90	110		96	70	130
Zinc	0.02	mg/L	<0.002			1	20	99	90	110		98	70	130
pH - QCBatchID: EWL0107-JUL25														
pH	0.05	No unit	NA			0		100				NA		
Reactive Phosphorus by SFA - QCBatchID: SKA0055-JUL25														
Total Reactive Phosphorous (o-phosphate as P)	0.3	mg/L	<0.03			1	10	98	90	110		81	75	125

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Annexe B : Résultats des bilan acide-bases

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
1	Stérile	Amphibolite	9,96	0,81	0,07	0,74	0,24	0,12	10,1
2	Stérile	Amphibolite	9,64	1,30	0,18	1,12	0,66	0,58	48,2
3	Stérile	Amphibolite	9,85	0,19	0,04	0,16	0,35	0,24	20,0
4	Stérile	Amphibolite	9,88	0,01	0,04	0,04	0,04	0,01	1,2
5	Stérile	Amphibolite	9,73	0,72	0,1	0,62	0,08	0,03	2,5
6	Stérile	Amphibolite	9,8	0,13	0,04	0,1	1,01	0,86	71,7
7	Stérile	Amphibolite	9,79	0,09	0,04	0,07	0,25	0,17	14,2
8	Stérile	Amphibolite	9,69	0,11	0,04	0,08	0,05	0,01	1,1
9	Stérile	Amphibolite	9,75	0,09	0,04	0,06	0,06	0,02	1,7
10	Stérile	Amphibolite	9,62	0,52	0,06	0,46	0,06	0,02	1,3
11	Stérile	Amphibolite	9,85	0,23	0,05	0,18	0,31	0,21	17,2
12	Stérile	Amphibolite	9,75	0,46	0,07	0,39	0,72	0,53	44,5
13	Stérile	Amphibolite	9,65	0,10	0,04	0,09	0,24	0,17	13,9
14	Stérile	Amphibolite	9,8	0,11	0,04	0,08	0,19	0,10	7,9
15	Stérile	Amphibolite	9,81	0,11	0,04	0,09	0,63	0,50	41,4
16	Stérile	Métasédiment	9,55	3,56	0,12	3,44	0,10	0,10	8,4
17	Stérile	Amphibolite	9,58	4,43	0,24	4,19	0,14	0,14	11,7
18	Stérile	Amphibolite	9,6	0,39	0,08	0,31	0,16	0,10	8,7
19	Stérile	Pegmatite stérile	9,69	0,34	0,07	0,27	0,12	0,05	4,4
20	Stérile	Amphibolite	9,15	7,39	0,51	6,88	0,07	0,01	0,4
21	Stérile	Amphibolite	9,8	0,06	0,04	0,04	0,49	0,37	30,5
22	Stérile	Amphibolite	9,68	0,05	0,04	0,04	0,10	0,04	3,0
23	Stérile	Métasédiment	9,12	7,32	0,17	7,15	0,08	0,01	0,4
24	Stérile	Amphibolite	9,65	0,08	0,04	0,06	0,09	0,04	3,3
25	Stérile	Métasédiment	9,71	0,13	0,04	0,08	0,07	0,04	3,0
26	Stérile	Amphibolite	9,74	0,10	0,04	0,08	0,20	0,13	10,6
27	Stérile	Amphibolite	9,71	0,29	0,04	0,27	0,23	0,12	10,1
28	Stérile	Amphibolite	9,75	0,02	0,04	0,04	0,05	0,01	0,4
29	Stérile	Amphibolite	9,8	0,01	0,04	0,04	0,22	0,17	13,9
30	Stérile	Amphibolite	9,72	0,03	0,04	0,04	0,35	0,25	20,8
31	Stérile	Métasédiment	9,59	0,04	0,04	0,04	0,04	0,01	0,4
32	Stérile	Amphibolite	9,96	0,04	0,04	0,04	0,11	0,06	4,9
33	Stérile	Amphibolite	9,74	0,09	0,04	0,05	0,54	0,48	40,4
34	Stérile	Métasédiment	9,61	0,37	0,05	0,32	0,31	0,20	16,8
35	Stérile	Métasédiment	8,98	0,02	0,04	0,04	0,02	0,01	0,4
36	Stérile	Ultramafique	9,37	0,68	0,1	0,58	0,03	0,01	1,1
37	Stérile	Amphibolite	9,49	0,76	0,21	0,55	0,07	0,02	1,9
38	Stérile	Métasédiment	9,31	0,50	0,11	0,39	0,03	0,01	1,0
39	Stérile	Métasédiment	9,38	1,09	0,19	0,9	0,03	0,02	1,3
40	Stérile	Métasédiment	9,36	1,01	0,12	0,89	0,04	0,02	1,4
41	Stérile	Métasédiment	9,61	0,01	0,04	0,04	0,12	0,08	6,9
42	Stérile	Métasédiment	9,56	0,01	0,04	0,04	0,09	0,06	4,8
43	Stérile	Métasédiment	9,52	0,01	0,04	0,04	0,12	0,08	6,8
44	Stérile	Métasédiment	9,39	0,35	0,07	0,28	0,03	0,01	0,4
45	Stérile	Métasédiment	9,44	0,01	0,04	0,04	0,03	0,01	0,4
46	Stérile	Métasédiment	9,19	0,89	0,13	0,76	1,26	1,21	100,7
47	Stérile	Métasédiment	8,96	0,45	0,07	0,38	0,02	0,01	0,4
48	Stérile	Métasédiment	9,41	0,26	0,04	0,21	0,10	0,07	5,8
49	Stérile	Métasédiment	9,49	1,14	0,2	0,94	0,12	0,08	6,7
50	Stérile	Métasédiment	9,77	0,24	0,04	0,21	0,20	0,16	13,5
51	Stérile	Métasédiment	9,73	0,36	0,09	0,27	0,50	0,40	33,7
52	Stérile	Métasédiment	9,68	0,95	0,16	0,79	0,35	0,22	18,0
53	Stérile	Métasédiment	9,72	0,41	0,08	0,33	0,82	0,67	55,5
54	Stérile	Métasédiment	9,42	1,30	0,26	1,04	0,05	0,02	1,8
55	Stérile	Métasédiment	9,72	0,17	0,09	0,08	2,40	1,24	103,1
56	Stérile	Amphibolite	9,51	0,17	0,05	0,12	1,14	0,79	65,9
57	Stérile	Métasédiment	9,72	0,42	0,07	0,35	2,12	1,28	106,4
58	Stérile	Ultramafique	9,48	0,01	0,04	0,04	0,03	0,03	2,7
59	Stérile	Ultramafique	9,32	0,01	0,04	0,04	0,02	0,01	0,4
60	Stérile	Ultramafique	9,28	0,01	0,04	0,04	0,01	0,01	0,4
61	Stérile	Ultramafique	9,15	0,01	0,04	0,04	0,01	0,01	0,4
62	Stérile	Ultramafique	9,11	0,01	0,04	0,04	0,01	0,01	0,4
63	Stérile	Pegmatite stérile	9,77	0,01	0,04	0,04	0,04	0,02	1,3
64	Stérile	Pegmatite stérile	9,66	0,01	0,04	0,04	0,03	0,01	0,4
65	Stérile	Pegmatite stérile	9,07	0,01	0,04	0,04	0,02	0,01	0,4
66	Stérile	Pegmatite stérile	8,52	0,01	0,04	0,04	0,01	0,01	0,4
67	Stérile	Pegmatite stérile	9,31	0,01	0,04	0,04	0,03	0,03	2,5
68	Stérile	Pegmatite stérile	9,4	0,01	0,04	0,04	0,03	0,03	2,8
69	Stérile	Pegmatite stérile	8,91	0,01	0,04	0,04	0,03	0,01	0,4
70	Stérile	Pegmatite stérile	9,04	0,01	0,04	0,04	0,02	0,01	0,4
71	Stérile	Pegmatite stérile	8,76	0,03	0,04	0,04	0,02	0,01	0,4
72	Stérile	Pegmatite stérile	9,51	0,01	0,04	0,04	0,06	0,03	2,2
73	Stérile	Pegmatite stérile	9,61	0,65	0,16	0,49	0,04	0,01	0,6

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
1	Stérile	Amphibolite	57,5	25,3	23,1	-13,0	32,2	0,4	2,5	NPAG
2	Stérile	Amphibolite	47,3	40,6	35,0	13,2	6,7	1,4	1,4	PAG
3	Stérile	Amphibolite	58,8	5,8	5,0	15,0	53,0	4,0	11,8	NPAG
4	Stérile	Amphibolite	22,6	0,2	1,2	-0,1	22,4	0,9	18,1	NPAG
5	Stérile	Amphibolite	37,7	22,4	19,4	-16,9	15,3	0,1	1,9	PAG
6	Stérile	Amphibolite	103,0	4,0	3,1	68,6	99,0	23,0	33,0	NPAG
7	Stérile	Amphibolite	53,5	2,9	2,2	12,0	50,6	6,5	24,5	NPAG
8	Stérile	Amphibolite	40,2	3,3	2,5	-1,4	36,9	0,4	16,1	NPAG
9	Stérile	Amphibolite	36,4	2,9	1,9	-0,2	33,5	0,9	19,4	NPAG
10	Stérile	Amphibolite	35,9	16,3	14,4	-13,0	19,6	0,1	2,5	NPAG
11	Stérile	Amphibolite	58,5	7,2	5,6	11,6	51,3	3,1	10,4	NPAG
12	Stérile	Amphibolite	92,4	14,4	12,2	32,3	78,0	3,7	7,6	NPAG
13	Stérile	Amphibolite	55,3	3,1	2,8	11,1	52,2	5,0	19,7	NPAG
14	Stérile	Amphibolite	40,6	3,5	2,5	5,4	37,1	3,2	16,3	NPAG
15	Stérile	Amphibolite	86,2	3,6	2,8	38,5	82,6	14,7	30,7	NPAG
16	Stérile	Métasédiment	63,4	111,1	107,4	-99,0	-47,7	0,1	0,6	PAG
17	Stérile	Amphibolite	74,6	138,3	130,8	-119,0	-63,7	0,1	0,6	PAG
18	Stérile	Amphibolite	47,5	12,3	9,7	-1,0	35,2	0,9	4,9	NPAG
19	Stérile	Pegmatite stérile	33,4	10,6	8,4	-4,0	22,8	0,5	4,0	NPAG
20	Stérile	Amphibolite	121,0	230,7	214,8	-214,3	-109,7	0,0	0,6	PAG
21	Stérile	Amphibolite	66,5	2,0	1,2	29,3	64,5	24,4	53,3	NPAG
22	Stérile	Amphibolite	37,5	1,7	1,2	1,8	35,8	2,4	30,0	NPAG
23	Stérile	Métasédiment	101,0	228,5	223,2	-222,8	-127,5	0,0	0,5	PAG
24	Stérile	Amphibolite	45,0	2,6	1,9	1,5	42,4	1,8	24,0	NPAG
25	Stérile	Métasédiment	36,6	3,9	2,5	0,5	32,7	1,2	14,7	NPAG
26	Stérile	Amphibolite	52,8	3,2	2,5	8,1	49,6	4,2	21,1	NPAG
27	Stérile	Amphibolite	51,8	9,1	8,4	1,7	42,7	1,2	6,1	NPAG
28	Stérile	Amphibolite	33,9	0,7	1,2	-0,8	33,2	0,3	27,2	NPAG
29	Stérile	Amphibolite	41,5	0,3	1,2	12,7	41,2	11,1	33,2	NPAG
30	Stérile	Amphibolite	53,3	1,0	1,2	19,6	52,3	16,7	42,7	NPAG
31	Stérile	Métasédiment	38,9	1,4	1,2	-0,8	37,5	0,3	31,2	NPAG
32	Stérile	Amphibolite	35,9	1,3	1,2	3,7	34,6	3,9	28,8	NPAG
33	Stérile	Amphibolite	62,2	2,9	1,6	38,8	59,3	25,9	39,9	NPAG
34	Stérile	Métasédiment	44,0	11,4	10,0	6,9	32,6	1,7	4,4	NPAG
35	Stérile	Métasédiment	15,1	0,5	1,2	-0,8	14,6	0,3	12,1	NPAG
36	Stérile	Ultramafique	18,6	21,1	18,1	-17,0	-2,5	0,1	1,0	PAG
37	Stérile	Amphibolite	18,9	23,6	17,2	-15,2	-4,7	0,1	1,1	PAG
38	Stérile	Métasédiment	14,7	15,7	12,2	-11,2	-1,0	0,1	1,2	PAG
39	Stérile	Métasédiment	16,2	34,0	28,1	-26,8	-17,8	0,0	0,6	PAG
40	Stérile	Métasédiment	20,3	31,5	27,8	-26,4	-11,2	0,1	0,7	PAG
41	Stérile	Métasédiment	17,9	0,2	1,2	5,7	17,7	5,5	14,3	NPAG
42	Stérile	Métasédiment	16,2	0,2	1,2	3,5	16,0	3,8	13,0	NPAG
43	Stérile	Métasédiment	19,4	0,2	1,2	5,6	19,2	5,5	15,5	NPAG
44	Stérile	Métasédiment	13,8	10,9	8,7	-8,3	2,9	0,0	1,6	PAG
45	Stérile	Métasédiment	15,2	0,2	1,2	-0,8	15,0	0,3	12,2	NPAG
46	Stérile	Métasédiment	16,7	27,8	23,7	77,0	-11,1	4,2	0,7	PAG
47	Stérile	Métasédiment	12,7	14,2	11,9	-11,4	-1,5	0,0	1,1	PAG
48	Stérile	Métasédiment	21,2	8,0	6,6	-0,8	13,2	0,9	3,2	NPAG
49	Stérile	Métasédiment	25,4	35,6	29,3	-22,7	-10,2	0,2	0,9	PAG
50	Stérile	Métasédiment	32,0	7,5	6,6	6,9	24,5	2,1	4,9	NPAG
51	Stérile	Métasédiment	52,8	11,1	8,4	25,3	41,7	4,0	6,3	NPAG
52	Stérile	Métasédiment	39,0	29,7	24,7	-6,6	9,3	0,7	1,6	PAG
53	Stérile	Métasédiment	82,1	12,7	10,3	45,2	69,4	5,4	8,0	NPAG
54	Stérile	Métasédiment	31,4	40,6	32,5	-30,7	-9,2	0,1	1,0	PAG
55	Stérile	Métasédiment	118,0	5,3	2,5	100,6	112,7	41,3	47,3	NPAG
56	Stérile	Amphibolite	86,3	5,2	3,7	62,1	81,1	17,6	23,0	NPAG
57	Stérile	Métasédiment	116,0	13,0	10,9	95,5	103,0	9,7	10,6	NPAG
58	Stérile	Ultramafique	12,6	0,2	1,2	1,4	12,4	2,1	10,1	NPAG
59	Stérile	Ultramafique	12,5	0,2	1,2	-0,8	12,3	0,3	10,0	NPAG
60	Stérile	Ultramafique	8,8	0,2	1,2	-0,8	8,6	0,3	7,0	NPAG
61	Stérile	Ultramafique	7,8	0,2	1,2	-0,8	7,6	0,3	6,2	NPAG
62	Stérile	Ultramafique	8,2	0,2	1,2	-0,8	8,0	0,3	6,6	NPAG
63	Stérile	Pegmatite stérile	10,3	0,2	1,2	0,0	10,1	1,0	8,2	NPAG
64	Stérile	Pegmatite stérile	8,5	0,2	1,2	-0,8	8,3	0,3	6,8	NPAG
65	Stérile	Pegmatite stérile	7,5	0,2	1,2	-0,8	7,3	0,3	6,0	NPAG
66	Stérile	Pegmatite stérile	8,5	0,2	1,2	-0,8	8,3	0,3	6,8	NPAG
67	Stérile	Pegmatite stérile	10,2	0,2	1,2	1,3	10,0	2,0	8,2	NPAG
68	Stérile	Pegmatite stérile	12,0	0,2	1,2	1,6	11,8	2,3	9,6	NPAG
69	Stérile	Pegmatite stérile	11,3	0,2	1,2	-0,8	11,1	0,3	9,1	NPAG
70	Stérile	Pegmatite stérile	9,5	0,2	1,2	-0,8	9,3	0,3	7,6	NPAG
71	Stérile	Pegmatite stérile	8,7	0,9	1,2	-0,8	7,8	0,3	7,0	NPAG
72	Stérile	Pegmatite stérile	13,4	0,2	1,2	0,9	13,2	1,7	10,7	NPAG
73	Stérile	Pegmatite stérile	25,0	20,3	15,3	-14,7	4,7	0,0	1,6	PAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
74	Minerai	Pegmatite stérile	9,58	0,30	0,04	0,27	0,18	0,12	10,1
75	Minerai	Pegmatite spodumène	9,71	0,10	0,04	0,07	0,28	0,20	16,7
76	Minerai	Pegmatite spodumène	9,44	0,16	0,04	0,15	0,25	0,18	14,8
77	Minerai	Pegmatite spodumène	9,42	0,48	0,09	0,39	0,03	0,01	0,4
78	Minerai	Pegmatite spodumène	9,59	0,01	0,04	0,04	0,03	0,01	0,4
79	Minerai	Pegmatite spodumène	9,26	0,01	0,04	0,04	0,01	0,01	0,4
80	Minerai	Pegmatite spodumène	9,47	0,01	0,04	0,04	0,03	0,01	0,4
81	Minerai	Pegmatite spodumène	9,55	0,01	0,04	0,04	0,03	0,01	0,5
82	Minerai	Pegmatite spodumène	9,34	0,01	0,04	0,04	0,01	0,01	0,4
83	Résidu	Pegmatite traitée	9,23	0,01	0,04	0,04	0,02	0,02	1,6
84	Résidu	Pegmatite traitée	8,72	0,01	0,04	0,04	0,02	0,02	1,2
VIS-CV5-AMP-085	Stérile	Amphibolite	9,76	0,06	0,04	0,05	0,14	0,13	10,8
VIS-CV5-AMP-086	Stérile	Amphibolite	9,73	0,09	0,04	0,08	0,10	0,09	7,8
VIS-CV5-AMP-087	Stérile	Amphibolite	9,7	0,09	0,04	0,06	0,44	0,44	36,7
VIS-CV5-AMP-088	Stérile	Amphibolite	9,45	0,76	0,16	0,6	0,15	0,14	11,8
VIS-CV5-AMP-089	Stérile	Amphibolite	9,48	0,26	0,08	0,18	0,08	0,06	5,2
VIS-CV5-AMP-090	Stérile	Amphibolite	9,44	0,26	0,04	0,24	0,11	0,10	8,0
VIS-CV5-AMP-091	Stérile	Amphibolite	9,72	0,08	0,04	0,06	0,21	0,19	15,8
VIS-CV5-AMP-092	Stérile	Amphibolite	9,38	0,04	0,04	0,03	0,04	0,04	3,4
VIS-CV5-AMP-093	Stérile	Amphibolite	9,45	0,25	0,04	0,2	0,07	0,06	5,2
VIS-CV5-AMP-094	Stérile	Amphibolite	9,84	0,12	0,04	0,1	0,02	0,02	1,5
VIS-CV5-AMP-095	Stérile	Amphibolite	9,8	0,33	0,06	0,27	0,15	0,14	11,5
VIS-CV5-AMP-096	Stérile	Amphibolite	9,73	0,20	0,06	0,14	0,46	0,45	37,5
VIS-CV5-AMP-097	Stérile	Amphibolite	9,64	0,18	0,04	0,16	0,17	0,16	13,5
VIS-CV5-AMP-098	Stérile	Amphibolite	9,48	0,20	0,04	0,19	0,09	0,08	6,8
VIS-CV5-AMP-099	Stérile	Amphibolite	9,84	0,25	0,06	0,19	0,07	0,04	3,5
VIS-CV5-AMP-100	Stérile	Amphibolite	9,31	0,64	0,13	0,51	0,06	0,04	3,7
VIS-CV5-AMP-101	Stérile	Amphibolite	9,04	1,11	0,15	0,97	0,10	0,09	7,8
VIS-CV5-AMP-102	Stérile	Amphibolite	9,62	0,70	0,11	0,6	0,04	0,04	3,0
VIS-CV5-AMP-103	Stérile	Amphibolite	9,33	0,22	0,04	0,19	0,08	0,03	2,7
VIS-CV5-AMP-104	Stérile	Amphibolite	10,02	0,02	0,04	0,02	0,07	0,06	5,0
VIS-CV5-AMP-105	Stérile	Amphibolite	7,17	3,58	0,19	3,39	0,02	0,02	1,9
VIS-CV5-AMP-106	Stérile	Amphibolite	9,96	0,14	0,04	0,1	0,58	0,54	45,4
VIS-CV5-AMP-107	Stérile	Amphibolite	9,87	0,35	0,1	0,25	0,97	0,94	78,4
VIS-CV5-AMP-108	Stérile	Amphibolite	9,66	0,81	0,19	0,62	1,34	1,32	109,9
VIS-CV5-AMP-109	Stérile	Amphibolite	9,45	0,89	0,23	0,66	0,26	0,25	20,5
VIS-CV5-AMP-110	Stérile	Amphibolite	9,82	0,14	0,04	0,12	0,08	0,07	5,8
VIS-CV5-AMP-111	Stérile	Amphibolite	9,61	0,16	0,04	0,13	0,10	0,08	6,5
VIS-CV5-AMP-112	Stérile	Amphibolite	9,97	0,16	0,05	0,11	0,14	0,11	9,3
VIS-CV5-AMP-113	Stérile	Amphibolite	9,67	0,06	0,04	0,04	0,23	0,21	17,8
VIS-CV5-AMP-114	Stérile	Amphibolite	9,6	0,11	0,04	0,09	0,19	0,18	14,8
VIS-CV5-AMP-115	Stérile	Amphibolite	9,07	1,05	0,05	0,99	0,31	0,30	24,7
VIS-CV5-AMP-116	Stérile	Amphibolite	9,99	0,08	0,04	0,06	0,21	0,20	16,5
VIS-CV5-AMP-117	Stérile	Amphibolite	9,95	0,04	0,04	0,04	0,14	0,13	10,7
VIS-CV5-AMP-118	Stérile	Amphibolite	10,08	0,08	0,04	0,08	0,09	0,08	6,3
VIS-CV5-AMP-119	Stérile	Amphibolite	9,75	0,25	0,14	0,11	0,08	0,07	6,0
VIS-CV5-AMP-120	Stérile	Amphibolite	9,81	0,10	0,04	0,08	1,39	1,37	114,1
VIS-CV5-AMP-121	Stérile	Amphibolite	9,96	0,19	0,07	0,13	0,54	0,49	41,2
VIS-CV5-AMP-122	Stérile	Amphibolite	9,46	0,49	0,1	0,38	0,06	0,04	3,7
VIS-CV5-AMP-123	Stérile	Amphibolite	9,54	0,02	0,04	0,02	0,18	0,17	13,8
VIS-CV5-AMP-124	Stérile	Amphibolite	9,89	0,05	0,04	0,04	0,20	0,17	14,0
VIS-CV5-AMP-125	Stérile	Amphibolite	9,76	0,16	0,05	0,11	0,07	0,06	5,2
VIS-CV5-AMP-126	Stérile	Amphibolite	10,09	0,10	0,04	0,07	0,10	0,09	7,8
VIS-CV5-AMP-127	Stérile	Amphibolite	9,96	0,11	0,04	0,08	0,84	0,83	69,0
VIS-CV5-AMP-128	Stérile	Amphibolite	9,81	0,14	0,04	0,11	1,60	1,50	125,4
VIS-CV5-AMP-129	Stérile	Amphibolite	9,71	0,15	0,04	0,15	0,56	0,55	45,9
VIS-CV5-AMP-130	Stérile	Amphibolite	9,83	0,17	0,08	0,1	0,58	0,57	47,5
VIS-CV5-AMP-131	Stérile	Amphibolite	9,75	0,28	0,08	0,2	0,27	0,25	21,2
VIS-CV5-AMP-132	Stérile	Amphibolite	9,9	0,13	0,04	0,09	0,48	0,47	38,9
VIS-CV5-AMP-133	Stérile	Amphibolite	9,45	0,62	0,28	0,33	0,16	0,16	13,0
VIS-CV5-AMP-134	Stérile	Amphibolite	8,98	1,39	0,54	0,85	0,05	0,05	4,3
VIS-CV5-AMP-135	Stérile	Amphibolite	9,69	0,06	0,04	0,02	0,08	0,08	7,0
VIS-CV5-AMP-136	Stérile	Amphibolite	9,94	0,12	0,08	0,04	0,39	0,39	32,7
VIS-CV5-AMP-137	Stérile	Amphibolite	9,77	0,61	0,42	0,18	0,08	0,07	6,0
VIS-CV5-AMP-138	Stérile	Amphibolite	9,88	0,04	0,04	0,01	0,08	0,07	6,2
VIS-CV5-AMP-139	Stérile	Amphibolite	9,92	0,15	0,08	0,07	0,08	0,08	6,7
VIS-CV5-AMP-140	Stérile	Amphibolite	9,13	1,05	0,46	0,59	0,77	0,77	64,0
VIS-CV5-AMP-141	Stérile	Amphibolite	9,26	0,07	0,04	0,02	0,07	0,07	5,8
VIS-CV5-AMP-142	Stérile	Amphibolite	9,74	0,25	0,2	0,05	0,02	0,02	1,5
VIS-CV5-AMP-143	Stérile	Amphibolite	9,65	0,15	0,08	0,07	0,54	0,54	45,0
VIS-CV5-AMP-144	Stérile	Amphibolite	9,74	0,26	0,11	0,15	0,12	0,13	10,5
VIS-CV5-AMP-145	Stérile	Amphibolite	9,78	0,24	0,14	0,09	0,03	0,02	1,8

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	S.U.	S.U.	
74	Minerai	Pegmatite stérile	37,4	9,4	8,4	1,7	28,0	1,2	4,4	NPAG
75	Minerai	Pegmatite spodumène	37,4	3,0	2,2	14,5	34,4	7,6	17,1	NPAG
76	Minerai	Pegmatite spodumène	49,2	5,0	4,7	10,1	44,2	3,2	10,5	NPAG
77	Minerai	Pegmatite spodumène	24,2	15,0	12,2	-11,8	9,2	0,0	2,0	PAG
78	Minerai	Pegmatite spodumène	16,5	0,2	1,2	-0,8	16,3	0,3	13,2	NPAG
79	Minerai	Pegmatite spodumène	10,6	0,2	1,2	-0,8	10,4	0,3	8,5	NPAG
80	Minerai	Pegmatite spodumène	18,9	0,2	1,2	-0,8	18,7	0,3	15,1	NPAG
81	Minerai	Pegmatite spodumène	30,9	0,2	1,2	-0,7	30,7	0,4	24,7	NPAG
82	Minerai	Pegmatite spodumène	11,0	0,2	1,2	-0,8	10,8	0,3	8,8	NPAG
83	Résidu	Pegmatite traitée	6,3	0,2	1,2	0,3	6,1	1,3	5,0	NPAG
84	Résidu	Pegmatite traitée	6,0	0,2	1,2	0,0	5,8	1,0	4,8	NPAG
VIS-CV5-AMP-085	Stérile	Amphibolite	19,5	1,8	1,6	9,3	17,7	6,9	12,5	NPAG
VIS-CV5-AMP-086	Stérile	Amphibolite	14,7	2,9	2,5	5,3	11,8	3,1	5,9	NPAG
VIS-CV5-AMP-087	Stérile	Amphibolite	39,8	2,7	1,9	34,8	37,1	19,6	21,3	NPAG
VIS-CV5-AMP-088	Stérile	Amphibolite	17,9	23,6	18,7	-6,9	-5,7	0,6	1,0	PAG
VIS-CV5-AMP-089	Stérile	Amphibolite	15,9	8,2	5,6	-0,4	7,7	0,9	2,8	NPAG
VIS-CV5-AMP-090	Stérile	Amphibolite	16,6	8,0	7,5	0,5	8,6	1,1	2,2	NPAG
VIS-CV5-AMP-091	Stérile	Amphibolite	22,8	2,4	1,9	14,0	20,4	8,5	12,2	NPAG
VIS-CV5-AMP-092	Stérile	Amphibolite	11,3	1,2	0,9	2,5	10,1	3,6	12,1	NPAG
VIS-CV5-AMP-093	Stérile	Amphibolite	13,1	7,8	6,2	-1,1	5,3	0,8	2,1	NPAG
VIS-CV5-AMP-094	Stérile	Amphibolite	8,7	3,8	3,1	-1,6	4,9	0,5	2,8	NPAG
VIS-CV5-AMP-095	Stérile	Amphibolite	18,2	10,2	8,4	3,1	8,0	1,4	2,2	NPAG
VIS-CV5-AMP-096	Stérile	Amphibolite	41,2	6,2	4,4	33,1	35,0	8,6	9,4	NPAG
VIS-CV5-AMP-097	Stérile	Amphibolite	22,1	5,7	5,0	8,5	16,4	2,7	4,4	NPAG
VIS-CV5-AMP-098	Stérile	Amphibolite	14,6	6,1	5,9	0,9	8,5	1,2	2,5	NPAG
VIS-CV5-AMP-099	Stérile	Amphibolite	13,2	7,8	5,9	-2,4	5,4	0,6	2,2	NPAG
VIS-CV5-AMP-100	Stérile	Amphibolite	14,7	20,0	15,9	-12,3	-5,3	0,2	0,9	PAG
VIS-CV5-AMP-101	Stérile	Amphibolite	19,0	34,6	30,3	-22,4	-15,6	0,3	0,6	PAG
VIS-CV5-AMP-102	Stérile	Amphibolite	13,4	21,9	18,7	-15,7	-8,5	0,2	0,7	PAG
VIS-CV5-AMP-103	Stérile	Amphibolite	14,8	6,9	5,9	-3,3	7,9	0,4	2,5	NPAG
VIS-CV5-AMP-104	Stérile	Amphibolite	13,1	0,6	0,6	4,4	12,5	8,0	21,0	NPAG
VIS-CV5-AMP-105	Stérile	Amphibolite	9,3	111,7	105,8	-103,9	-102,4	0,0	0,1	PAG
VIS-CV5-AMP-106	Stérile	Amphibolite	49,1	4,3	3,1	42,2	44,8	14,5	15,7	NPAG
VIS-CV5-AMP-107	Stérile	Amphibolite	79,3	10,9	7,8	70,6	68,4	10,0	10,2	NPAG
VIS-CV5-AMP-108	Stérile	Amphibolite	111,0	25,4	19,4	90,5	85,6	5,7	5,7	NPAG
VIS-CV5-AMP-109	Stérile	Amphibolite	26,2	27,7	20,6	-0,1	-1,5	1,0	1,3	PAG
VIS-CV5-AMP-110	Stérile	Amphibolite	11,3	4,4	3,7	2,1	6,9	1,6	3,0	NPAG
VIS-CV5-AMP-111	Stérile	Amphibolite	15,7	5,0	4,1	2,4	10,7	1,6	3,9	NPAG
VIS-CV5-AMP-112	Stérile	Amphibolite	18,5	4,8	3,4	5,9	13,7	2,7	5,4	NPAG
VIS-CV5-AMP-113	Stérile	Amphibolite	27,9	1,7	1,2	16,6	26,2	14,3	22,3	NPAG
VIS-CV5-AMP-114	Stérile	Amphibolite	25,5	3,5	2,8	12,0	22,0	5,3	9,1	NPAG
VIS-CV5-AMP-115	Stérile	Amphibolite	33,1	32,8	30,9	-6,2	0,3	0,8	1,1	PAG
VIS-CV5-AMP-116	Stérile	Amphibolite	25,3	2,4	1,9	14,6	22,9	8,8	13,5	NPAG
VIS-CV5-AMP-117	Stérile	Amphibolite	20,0	1,3	1,2	9,4	18,7	8,5	16,0	NPAG
VIS-CV5-AMP-118	Stérile	Amphibolite	15,5	2,6	2,5	3,8	12,9	2,5	6,2	NPAG
VIS-CV5-AMP-119	Stérile	Amphibolite	12,4	7,7	3,4	2,6	4,7	1,7	3,6	NPAG
VIS-CV5-AMP-120	Stérile	Amphibolite	115,0	3,2	2,5	111,6	111,8	45,7	46,1	NPAG
VIS-CV5-AMP-121	Stérile	Amphibolite	46,6	6,1	4,1	37,1	40,5	10,2	11,5	NPAG
VIS-CV5-AMP-122	Stérile	Amphibolite	10,3	15,3	11,9	-8,2	-5,0	0,3	0,9	PAG
VIS-CV5-AMP-123	Stérile	Amphibolite	23,6	0,7	0,6	13,2	22,9	22,2	37,8	NPAG
VIS-CV5-AMP-124	Stérile	Amphibolite	23,2	1,6	1,2	12,8	21,6	11,2	18,6	NPAG
VIS-CV5-AMP-125	Stérile	Amphibolite	9,4	4,9	3,4	1,7	4,5	1,5	2,7	NPAG
VIS-CV5-AMP-126	Stérile	Amphibolite	16,0	3,1	2,2	5,7	12,9	3,6	7,3	NPAG
VIS-CV5-AMP-127	Stérile	Amphibolite	73,2	3,4	2,5	66,5	69,8	27,6	29,3	NPAG
VIS-CV5-AMP-128	Stérile	Amphibolite	134,0	4,4	3,4	122,0	129,6	36,5	39,0	NPAG
VIS-CV5-AMP-129	Stérile	Amphibolite	52,0	4,7	4,7	41,2	47,3	9,8	11,1	NPAG
VIS-CV5-AMP-130	Stérile	Amphibolite	54,3	5,4	3,1	44,4	48,9	15,2	17,4	NPAG
VIS-CV5-AMP-131	Stérile	Amphibolite	27,6	8,6	6,2	14,9	19,0	3,4	4,4	NPAG
VIS-CV5-AMP-132	Stérile	Amphibolite	44,7	4,0	2,8	36,0	40,7	13,8	15,9	NPAG
VIS-CV5-AMP-133	Stérile	Amphibolite	22,3	19,2	10,3	2,7	3,1	1,3	2,2	NPAG
VIS-CV5-AMP-134	Stérile	Amphibolite	13,2	43,4	26,5	-22,2	-30,2	0,2	0,5	PAG
VIS-CV5-AMP-135	Stérile	Amphibolite	16,5	1,7	0,6	6,4	14,8	11,2	26,4	NPAG
VIS-CV5-AMP-136	Stérile	Amphibolite	39,1	3,7	1,2	31,4	35,4	26,2	31,3	NPAG
VIS-CV5-AMP-137	Stérile	Amphibolite	17,0	18,9	5,6	0,4	-1,9	1,1	3,0	NPAG
VIS-CV5-AMP-138	Stérile	Amphibolite	15,9	1,3	0,3	5,9	14,6	19,8	50,9	NPAG
VIS-CV5-AMP-139	Stérile	Amphibolite	14,6	4,7	2,2	4,5	9,9	3,1	6,7	NPAG
VIS-CV5-AMP-140	Stérile	Amphibolite	68,1	32,8	18,4	45,6	35,3	3,5	3,7	NPAG
VIS-CV5-AMP-141	Stérile	Amphibolite	15,8	2,1	0,6	5,2	13,7	9,3	25,3	NPAG
VIS-CV5-AMP-142	Stérile	Amphibolite	9,8	7,8	1,6	-0,1	2,0	1,0	6,3	NPAG
VIS-CV5-AMP-143	Stérile	Amphibolite	56,4	4,7	2,2	42,8	51,7	20,6	25,8	NPAG
VIS-CV5-AMP-144	Stérile	Amphibolite	20,2	8,1	4,7	5,8	12,1	2,2	4,3	NPAG
VIS-CV5-AMP-145	Stérile	Amphibolite	12,3	7,4	2,8	-1,0	4,9	0,7	4,4	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-AMP-146	Stérile	Amphibolite	9,75	0,13	0,09	0,04	0,02	0,02	2,0
VIS-CV5-AMP-147	Stérile	Amphibolite	10,17	0,08	0,05	0,03	0,24	0,24	20,2
VIS-CV5-AMP-148	Stérile	Amphibolite	10,12	0,19	0,16	0,03	0,21	0,19	16,2
VIS-CV5-AMP-149	Stérile	Amphibolite	9,92	0,11	0,07	0,04	0,03	0,03	2,7
VIS-CV5-AMP-150	Stérile	Amphibolite	9,67	0,22	0,12	0,1	0,09	0,08	6,7
VIS-CV5-AMP-151	Stérile	Amphibolite	9,92	0,13	0,08	0,05	0,46	0,44	37,0
VIS-CV5-AMP-152	Stérile	Amphibolite	10	0,02	0,04	0,01	0,02	0,02	1,3
VIS-CV5-AMP-153	Stérile	Amphibolite	9,25	0,07	0,05	0,02	0,03	0,03	2,3
VIS-CV5-AMP-154	Stérile	Amphibolite	9,87	0,11	0,05	0,06	0,04	0,02	1,7
VIS-CV5-AMP-155	Stérile	Amphibolite	9,81	0,02	0,04	0,01	0,12	0,09	7,2
VIS-CV5-AMP-156	Stérile	Amphibolite	10,05	0,11	0,04	0,06	1,53	1,50	125,4
VIS-CV5-AMP-157	Stérile	Amphibolite	10,03	0,13	0,05	0,08	0,23	0,21	17,5
VIS-CV5-AMP-158	Stérile	Amphibolite	9,96	0,05	0,04	0,02	0,08	0,05	4,2
VIS-CV5-AMP-159	Stérile	Amphibolite	9,8	0,10	0,05	0,05	0,06	0,03	2,7
VIS-CV5-AMP-160	Stérile	Amphibolite	9,8	0,05	0,04	0,03	0,29	0,28	23,0
VIS-CV5-AMP-161	Stérile	Amphibolite	10,11	0,30	0,16	0,14	0,12	0,10	8,0
VIS-CV5-AMP-162	Stérile	Amphibolite	9,95	0,16	0,06	0,09	0,10	0,07	6,2
VIS-CV5-AMP-163	Stérile	Amphibolite	8,98	4,02	1,05	2,97	0,09	0,05	4,2
VIS-CV5-AMP-164	Stérile	Amphibolite	9,92	0,13	0,06	0,07	0,26	0,23	19,0
VIS-CV5-AMP-165	Stérile	Amphibolite	9,53	0,07	0,04	0,04	0,04	0,02	1,5
VIS-CV5-AMP-166	Stérile	Amphibolite	9,92	0,09	0,06	0,03	0,29	0,26	21,8
VIS-CV5-AMP-167	Stérile	Amphibolite	9,02	0,79	0,1	0,68	0,07	0,04	3,3
VIS-CV5-AMP-168	Stérile	Amphibolite	9,83	0,03	0,04	0,02	0,23	0,21	17,7
VIS-CV5-AMP-169	Stérile	Amphibolite	9,79	0,09	0,05	0,04	0,06	0,02	2,0
VIS-CV5-AMP-170	Stérile	Amphibolite	9,68	0,40	0,18	0,22	0,10	0,07	6,0
VIS-CV5-AMP-171	Stérile	Amphibolite	9,67	0,14	0,07	0,07	0,14	0,10	8,5
VIS-CV5-AMP-172	Stérile	Amphibolite	10,03	0,13	0,07	0,06	0,56	0,53	44,2
VIS-CV5-AMP-173	Stérile	Amphibolite	9,32	0,07	0,04	0,04	0,16	0,13	10,8
VIS-CV5-AMP-174	Stérile	Amphibolite	9,28	0,16	0,06	0,11	0,45	0,43	35,5
VIS-CV5-AMP-175	Stérile	Amphibolite	9,39	0,11	0,05	0,06	0,32	0,29	24,0
VIS-CV5-AMP-176	Stérile	Amphibolite	9,87	0,03	0,04	0,02	0,02	0,02	2,0
VIS-CV5-AMP-177	Stérile	Amphibolite	9,72	0,17	0,07	0,1	0,02	0,02	1,7
VIS-CV5-AMP-178	Stérile	Amphibolite	9,76	0,11	0,04	0,06	0,05	0,05	3,9
VIS-CV5-AMP-179	Stérile	Amphibolite	9,62	0,21	0,1	0,11	0,08	0,05	4,5
VIS-CV5-AMP-180	Stérile	Amphibolite	9,26	0,26	0,11	0,16	0,02	0,02	1,7
VIS-CV5-AMP-181	Stérile	Amphibolite	9,57	0,37	0,13	0,24	0,10	0,09	7,7
VIS-CV5-AMP-182	Stérile	Amphibolite	9,92	0,08	0,04	0,04	0,02	0,02	1,5
VIS-CV5-MS-183	Stérile	Métasédiment	9,98	0,17	0,08	0,09	0,05	0,04	3,7
VIS-CV5-MS-184	Stérile	Métasédiment	9,83	0,42	0,15	0,27	0,13	0,13	10,7
VIS-CV5-MS-185	Stérile	Métasédiment	9,51	0,66	0,14	0,52	0,03	0,02	1,5
VIS-CV5-MS-186	Stérile	Métasédiment	9,42	0,62	0,19	0,42	0,05	0,04	3,3
VIS-CV5-MS-187	Stérile	Métasédiment	9,75	0,90	0,23	0,67	0,32	0,30	24,8
VIS-CV5-MS-188	Stérile	Métasédiment	10,13	0,01	0,04	0,01	0,03	0,03	2,2
VIS-CV5-MS-189	Stérile	Métasédiment	10,08	0,04	0,04	0,01	0,11	0,09	7,7
VIS-CV5-MS-190	Stérile	Métasédiment	10,2	0,01	0,04	0,01	0,06	0,05	4,3
VIS-CV5-MS-191	Stérile	Métasédiment	9,18	0,11	0,07	0,04	0,12	0,11	8,8
VIS-CV5-MS-192	Stérile	Métasédiment	9,83	0,01	0,04	0,01	0,07	0,06	5,3
VIS-CV5-MS-193	Stérile	Métasédiment	9,59	0,01	0,04	0,01	0,06	0,06	4,8
VIS-CV5-MS-194	Stérile	Métasédiment	9,15	0,03	0,04	0,01	0,03	0,03	2,2
VIS-CV5-MS-195	Stérile	Métasédiment	8,31	4,16	0,64	3,52	1,84	1,84	152,9
VIS-CV5-MS-196	Stérile	Métasédiment	8,45	3,16	0,33	2,82	1,53	1,51	126,2
VIS-CV5-MS-197	Stérile	Métasédiment	8,49	4,92	0,68	4,24	1,67	1,60	133,4
VIS-CV5-MS-198	Stérile	Métasédiment	9,42	0,46	0,16	0,29	0,08	0,08	6,3
VIS-CV5-MS-199	Stérile	Métasédiment	9,55	0,26	0,1	0,16	0,04	0,04	3,2
VIS-CV5-MS-200	Stérile	Métasédiment	9,76	0,05	0,04	0,02	0,05	0,05	4,0
VIS-CV5-MS-201	Stérile	Métasédiment	9,16	1,09	0,27	0,82	0,02	0,02	1,5
VIS-CV5-MS-202	Stérile	Métasédiment	5,2	6,34	0,13	6,22	0,03	0,04	3,5
VIS-CV5-MS-203	Stérile	Métasédiment	8,27	0,35	0,12	0,22	0,04	0,05	4,5
VIS-CV5-MS-204	Stérile	Métasédiment	9,57	0,04	0,04	0,02	0,07	0,10	8,2
VIS-CV5-MS-205	Stérile	Métasédiment	10,14	0,19	0,09	0,09	0,01	0,03	2,5
VIS-CV5-MS-206	Stérile	Métasédiment	9,37	0,19	0,06	0,12	0,02	0,02	1,8
VIS-CV5-MS-207	Stérile	Métasédiment	9,1	0,59	0,15	0,44	0,03	0,03	2,7
VIS-CV5-MS-208	Stérile	Métasédiment	10	0,10	0,06	0,04	0,08	0,10	8,5
VIS-CV5-MS-209	Stérile	Métasédiment	9,86	0,12	0,04	0,1	0,06	0,09	7,3
VIS-CV5-MS-210	Stérile	Métasédiment	9,59	0,88	0,17	0,7	0,01	0,05	3,8
VIS-CV5-MS-211	Stérile	Métasédiment	10,24	0,13	0,06	0,06	0,03	0,05	4,0
VIS-CV5-MS-212	Stérile	Métasédiment	9,95	0,30	0,13	0,17	0,07	0,08	6,7
VIS-CV5-MS-213	Stérile	Métasédiment	10,18	0,02	0,04	0,01	0,14	0,14	11,5
VIS-CV5-MS-214	Stérile	Métasédiment	9,69	0,01	0,04	0,01	0,02	0,04	3,2
VIS-CV5-MS-215	Stérile	Métasédiment	10,07	0,18	0,07	0,11	0,06	0,07	6,2
VIS-CV5-MS-216	Stérile	Métasédiment	9,57	0,38	0,1	0,28	0,12	0,14	11,8
VIS-CV5-MS-217	Stérile	Métasédiment	10,04	0,01	0,04	0,01	0,07	0,10	8,0

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
VIS-CV5-AMP-146	Stérile	Amphibolite	10,3	3,9	1,2	0,8	6,4	1,6	8,2	NPAG
VIS-CV5-AMP-147	Stérile	Amphibolite	30,1	2,4	0,9	19,2	27,7	21,5	32,1	NPAG
VIS-CV5-AMP-148	Stérile	Amphibolite	25,4	6,0	0,9	15,2	19,4	17,3	27,1	NPAG
VIS-CV5-AMP-149	Stérile	Amphibolite	12,5	3,5	1,2	1,4	9,0	2,1	10,0	NPAG
VIS-CV5-AMP-150	Stérile	Amphibolite	17,3	7,0	3,1	3,5	10,3	2,1	5,5	NPAG
VIS-CV5-AMP-151	Stérile	Amphibolite	42,7	4,1	1,6	35,5	38,6	23,7	27,4	NPAG
VIS-CV5-AMP-152	Stérile	Amphibolite	10,2	0,5	0,3	1,0	9,7	4,3	32,7	NPAG
VIS-CV5-AMP-153	Stérile	Amphibolite	16,8	2,2	0,6	1,7	14,6	3,7	26,9	NPAG
VIS-CV5-AMP-154	Stérile	Amphibolite	10,4	3,3	1,9	-0,2	7,1	0,9	5,6	NPAG
VIS-CV5-AMP-155	Stérile	Amphibolite	18,3	0,6	0,3	6,9	17,7	23,0	58,6	NPAG
VIS-CV5-AMP-156	Stérile	Amphibolite	128,0	3,4	1,9	123,5	124,6	67,0	68,3	NPAG
VIS-CV5-AMP-157	Stérile	Amphibolite	27,0	4,0	2,5	15,0	23,0	7,0	10,8	NPAG
VIS-CV5-AMP-158	Stérile	Amphibolite	12,3	1,7	0,6	3,5	10,6	6,7	19,7	NPAG
VIS-CV5-AMP-159	Stérile	Amphibolite	14,0	3,0	1,6	1,1	11,0	1,7	9,0	NPAG
VIS-CV5-AMP-160	Stérile	Amphibolite	32,9	1,6	0,9	22,1	31,3	24,6	35,1	NPAG
VIS-CV5-AMP-161	Stérile	Amphibolite	19,1	9,3	4,4	3,6	9,8	1,8	4,4	NPAG
VIS-CV5-AMP-162	Stérile	Amphibolite	23,3	4,8	2,8	3,4	18,5	2,2	8,3	NPAG
VIS-CV5-AMP-163	Stérile	Amphibolite	14,0	125,5	92,7	-88,5	-111,5	0,0	0,2	PAG
VIS-CV5-AMP-164	Stérile	Amphibolite	28,9	4,0	2,2	16,8	24,9	8,7	13,2	NPAG
VIS-CV5-AMP-165	Stérile	Amphibolite	14,9	2,1	1,2	0,3	12,8	1,2	11,9	NPAG
VIS-CV5-AMP-166	Stérile	Amphibolite	34,3	2,8	0,9	20,9	31,5	23,3	36,6	NPAG
VIS-CV5-AMP-167	Stérile	Amphibolite	18,0	24,6	21,2	-17,9	-6,6	0,2	0,8	PAG
VIS-CV5-AMP-168	Stérile	Amphibolite	29,4	0,8	0,6	17,1	28,6	28,3	47,1	NPAG
VIS-CV5-AMP-169	Stérile	Amphibolite	11,1	2,8	1,2	0,8	8,3	1,6	8,9	NPAG
VIS-CV5-AMP-170	Stérile	Amphibolite	15,6	12,3	6,9	-0,9	3,3	0,9	2,3	NPAG
VIS-CV5-AMP-171	Stérile	Amphibolite	17,4	4,3	2,2	6,3	13,1	3,9	8,0	NPAG
VIS-CV5-AMP-172	Stérile	Amphibolite	50,1	4,0	1,9	42,3	46,1	23,6	26,8	NPAG
VIS-CV5-AMP-173	Stérile	Amphibolite	21,8	2,1	1,2	9,6	19,7	8,7	17,5	NPAG
VIS-CV5-AMP-174	Stérile	Amphibolite	47,8	5,1	3,4	32,1	42,7	10,3	13,9	NPAG
VIS-CV5-AMP-175	Stérile	Amphibolite	30,8	3,6	1,9	22,1	27,2	12,8	16,4	NPAG
VIS-CV5-AMP-176	Stérile	Amphibolite	9,1	0,9	0,6	1,4	8,2	3,2	14,6	NPAG
VIS-CV5-AMP-177	Stérile	Amphibolite	9,9	5,2	3,1	-1,4	4,7	0,6	3,2	NPAG
VIS-CV5-AMP-178	Stérile	Amphibolite	10,9	3,4	1,9	2,0	7,5	2,1	5,8	NPAG
VIS-CV5-AMP-179	Stérile	Amphibolite	16,1	6,5	3,4	1,1	9,6	1,3	4,7	NPAG
VIS-CV5-AMP-180	Stérile	Amphibolite	16,6	8,2	5,0	-3,2	8,4	0,4	3,3	NPAG
VIS-CV5-AMP-181	Stérile	Amphibolite	15,0	11,7	7,5	0,2	3,3	1,0	2,0	NPAG
VIS-CV5-AMP-182	Stérile	Amphibolite	8,6	2,4	1,2	0,3	6,2	1,2	6,9	NPAG
VIS-CV5-MS-183	Stérile	Métasédiment	10,1	5,2	2,8	0,9	4,9	1,3	3,6	NPAG
VIS-CV5-MS-184	Stérile	Métasédiment	19,8	13,0	8,4	2,2	6,8	1,3	2,3	NPAG
VIS-CV5-MS-185	Stérile	Métasédiment	8,4	20,6	16,2	-14,7	-12,2	0,1	0,5	PAG
VIS-CV5-MS-186	Stérile	Métasédiment	8,6	19,2	13,1	-9,8	-10,6	0,3	0,7	PAG
VIS-CV5-MS-187	Stérile	Métasédiment	30,5	28,1	20,9	3,9	2,4	1,2	1,5	PAG
VIS-CV5-MS-188	Stérile	Métasédiment	10,7	0,3	0,3	1,9	10,4	6,9	34,3	NPAG
VIS-CV5-MS-189	Stérile	Métasédiment	14,1	1,3	0,3	7,4	12,8	24,6	45,2	NPAG
VIS-CV5-MS-190	Stérile	Métasédiment	10,4	0,2	0,3	4,0	10,2	13,9	33,3	NPAG
VIS-CV5-MS-191	Stérile	Métasédiment	18,5	3,4	1,2	7,6	15,1	7,1	14,8	NPAG
VIS-CV5-MS-192	Stérile	Métasédiment	12,3	0,2	0,3	5,0	12,1	17,1	39,4	NPAG
VIS-CV5-MS-193	Stérile	Métasédiment	14,2	0,2	0,3	4,5	14,0	15,5	45,5	NPAG
VIS-CV5-MS-194	Stérile	Métasédiment	14,1	0,9	0,3	1,9	13,2	6,9	45,2	NPAG
VIS-CV5-MS-195	Stérile	Métasédiment	138,0	129,8	109,9	43,0	8,2	1,4	1,3	PAG
VIS-CV5-MS-196	Stérile	Métasédiment	119,0	98,6	88,0	38,2	20,4	1,4	1,4	PAG
VIS-CV5-MS-197	Stérile	Métasédiment	121,0	153,6	132,3	1,1	-32,6	1,0	0,9	PAG
VIS-CV5-MS-198	Stérile	Métasédiment	14,6	14,3	9,1	-2,7	0,3	0,7	1,6	PAG
VIS-CV5-MS-199	Stérile	Métasédiment	10,0	8,2	5,0	-1,8	1,8	0,6	2,0	NPAG
VIS-CV5-MS-200	Stérile	Métasédiment	8,5	1,5	0,6	3,4	7,0	6,4	13,6	NPAG
VIS-CV5-MS-201	Stérile	Métasédiment	6,8	34,0	25,6	-24,1	-27,2	0,1	0,3	PAG
VIS-CV5-MS-202	Stérile	Métasédiment	5,7	197,9	194,1	-190,6	-192,2	0,0	0,0	PAG
VIS-CV5-MS-203	Stérile	Métasédiment	4,7	10,8	6,9	-2,4	-6,1	0,7	0,7	PAG
VIS-CV5-MS-204	Stérile	Métasédiment	13,7	1,2	0,6	7,5	12,5	13,1	21,9	NPAG
VIS-CV5-MS-205	Stérile	Métasédiment	6,3	5,8	2,8	-0,3	0,5	0,9	2,2	NPAG
VIS-CV5-MS-206	Stérile	Métasédiment	10,3	5,8	3,7	-1,9	4,5	0,5	2,7	NPAG
VIS-CV5-MS-207	Stérile	Métasédiment	6,9	18,4	13,7	-11,1	-11,5	0,2	0,5	PAG
VIS-CV5-MS-208	Stérile	Métasédiment	8,0	3,0	1,2	7,3	5,0	6,8	6,4	NPAG
VIS-CV5-MS-209	Stérile	Métasédiment	12,1	3,8	3,1	4,2	8,3	2,4	3,9	NPAG
VIS-CV5-MS-210	Stérile	Métasédiment	5,9	27,4	21,8	-18,0	-21,5	0,2	0,3	PAG
VIS-CV5-MS-211	Stérile	Métasédiment	6,0	4,0	1,9	2,1	2,0	2,1	3,2	NPAG
VIS-CV5-MS-212	Stérile	Métasédiment	9,0	9,5	5,3	1,4	-0,5	1,3	1,7	PAG
VIS-CV5-MS-213	Stérile	Métasédiment	18,2	0,5	0,3	11,2	17,7	36,9	58,3	NPAG
VIS-CV5-MS-214	Stérile	Métasédiment	8,3	0,3	0,3	2,9	8,0	10,2	26,6	NPAG
VIS-CV5-MS-215	Stérile	Métasédiment	13,7	5,6	3,4	2,7	8,1	1,8	4,0	NPAG
VIS-CV5-MS-216	Stérile	Métasédiment	21,5	11,9	8,7	3,1	9,6	1,4	2,5	NPAG
VIS-CV5-MS-217	Stérile	Métasédiment	11,6	0,3	0,3	7,7	11,3	25,6	37,2	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-MS-218	Stérile	Métasédiment	10,14	0,01	0,04	0,01	0,06	0,09	7,2
VIS-CV5-MS-219	Stérile	Métasédiment	10,05	0,01	0,04	0,01	0,16	0,17	14,3
VIS-CV5-MS-220	Stérile	Métasédiment	9,17	0,92	0,45	0,47	0,01	0,03	2,8
VIS-CV5-MS-221	Stérile	Métasédiment	9,63	0,95	0,4	0,56	0,19	0,18	14,8
VIS-CV5-MS-222	Stérile	Métasédiment	9,54	0,05	0,04	0,03	0,07	0,09	7,7
VIS-CV5-MS-223	Stérile	Métasédiment	9,75	0,19	0,09	0,1	0,10	0,03	2,3
VIS-CV5-MS-224	Stérile	Métasédiment	9,23	0,49	0,16	0,33	0,01	0,01	1,1
VIS-CV5-MS-225	Stérile	Métasédiment	9,59	0,01	0,04	0,01	0,04	0,04	3,0
VIS-CV5-MS-226	Stérile	Métasédiment	9,67	0,17	0,08	0,09	0,54	0,53	44,5
VIS-CV5-MS-227	Stérile	Métasédiment	8,54	1,76	0,37	1,4	0,03	0,02	2,0
VIS-CV5-MS-228	Stérile	Métasédiment	10	0,04	0,04	0,01	0,03	0,03	2,5
VIS-CV5-MS-229	Stérile	Métasédiment	8,99	2,01	0,41	1,6	0,11	0,09	7,7
VIS-CV5-MS-230	Stérile	Métasédiment	9,59	0,29	0,08	0,2	0,13	0,11	9,0
VIS-CV5-MS-231	Stérile	Métasédiment	8,57	1,06	0,26	0,8	0,02	0,02	1,5
VIS-CV5-MS-232	Stérile	Métasédiment	9,57	0,09	0,04	0,05	0,01	0,01	1,2
VIS-CV5-MS-233	Stérile	Métasédiment	9,48	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-MS-234	Stérile	Métasédiment	9,84	0,31	0,11	0,2	0,10	0,10	7,9
VIS-CV5-MS-235	Stérile	Métasédiment	10	0,02	0,04	0,01	0,04	0,02	1,8
VIS-CV5-MS-236	Stérile	Métasédiment	9,68	0,01	0,04	0,01	0,06	0,04	3,2
VIS-CV5-MS-237	Stérile	Métasédiment	9,64	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-MS-238	Stérile	Métasédiment	9,9	0,03	0,04	0,02	0,11	0,10	8,2
VIS-CV5-MS-239	Stérile	Métasédiment	9,59	0,55	0,1	0,45	0,10	0,08	6,8
VIS-CV5-MS-240	Stérile	Métasédiment	10,12	0,12	0,08	0,04	0,04	0,02	1,7
VIS-CV5-MS-241	Stérile	Métasédiment	10,01	0,17	0,07	0,1	0,02	0,02	1,7
VIS-CV5-MS-242	Stérile	Métasédiment	9,98	0,03	0,04	0,02	0,10	0,08	6,7
VIS-CV5-MS-243	Stérile	Métasédiment	9,76	0,01	0,04	0,01	0,06	0,04	3,2
VIS-CV5-MS-244	Stérile	Métasédiment	10,18	0,01	0,04	0,01	0,10	0,09	7,3
VIS-CV5-MS-245	Stérile	Métasédiment	10,05	0,01	0,04	0,01	0,06	0,04	3,3
VIS-CV5-MS-246	Stérile	Métasédiment	10,06	0,01	0,04	0,01	0,03	0,02	1,5
VIS-CV5-MS-247	Stérile	Métasédiment	10,2	0,10	0,07	0,02	0,02	0,02	1,7
VIS-CV5-MS-248	Stérile	Métasédiment	9,99	0,01	0,04	0,01	0,18	0,17	14,0
VIS-CV5-MS-249	Stérile	Métasédiment	10,22	0,01	0,04	0,01	0,08	0,06	5,3
VIS-CV5-MS-250	Stérile	Métasédiment	9,14	0,65	0,19	0,46	0,24	0,21	17,5
VIS-CV5-MS-251	Stérile	Métasédiment	9,59	0,18	0,05	0,13	0,03	0,02	1,3
VIS-CV5-MS-252	Stérile	Métasédiment	9,51	0,01	0,04	0,01	0,05	0,03	2,8
VIS-CV5-MS-253	Stérile	Métasédiment	7,5	5,08	0,97	4,11	0,04	0,04	3,0
VIS-CV5-MS-254	Stérile	Métasédiment	9,79	0,02	0,04	0,01	0,05	0,02	1,7
VIS-CV5-MS-255	Stérile	Métasédiment	9,92	0,20	0,04	0,15	0,07	0,04	3,0
VIS-CV5-MS-256	Stérile	Métasédiment	9,75	0,49	0,12	0,37	0,04	0,01	1,0
VIS-CV5-MS-257	Stérile	Métasédiment	9,54	0,09	0,08	0,01	0,04	0,02	1,7
VIS-CV5-MS-258	Stérile	Métasédiment	9,85	0,02	0,04	0,01	0,04	0,02	2,0
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	9,79	0,07	0,04	0,02	0,13	0,10	8,2
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	9,3	0,01	0,04	0,01	0,04	0,02	1,5
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	9,65	0,01	0,04	0,01	0,03	0,01	0,8
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	10,09	0,01	0,04	0,01	0,02	0,02	2,0
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	10,01	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	10,58	0,01	0,04	0,01	0,03	0,01	1,0
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	10,47	0,01	0,04	0,01	0,04	0,04	3,0
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	9,47	0,01	0,04	0,01	0,04	0,04	2,9
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	9,01	0,01	0,04	0,01	0,04	0,04	3,2
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	9,42	0,01	0,04	0,01	0,04	0,04	3,1
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	10,12	0,01	0,04	0,01	0,04	0,04	3,1
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	10,17	0,01	0,04	0,01	0,09	0,07	5,5
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	10,09	0,01	0,04	0,01	0,01	0,01	0,8
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	10,05	0,01	0,04	0,01	0,02	0,02	1,3
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	10,18	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	9,74	0,01	0,04	0,01	0,10	0,08	7,0
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	10,3	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	10,01	0,01	0,04	0,01	0,02	0,02	1,3
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	10,02	0,01	0,04	0,01	0,02	0,02	2,0
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	9,68	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-UM-279	Stérile	Ultramafique	9,5	0,57	0,24	0,33	2,56	2,50	208,4
VIS-CV5-UM-280	Stérile	Ultramafique	9,48	0,02	0,04	0,01	0,45	0,39	32,7
VIS-CV5-UM-281	Stérile	Ultramafique	9,92	0,31	0,11	0,2	0,09	0,04	3,7
VIS-CV5-UM-282	Stérile	Ultramafique	9,3	0,04	0,04	0,02	0,04	0,04	3,2
VIS-CV5-UM-283	Stérile	Ultramafique	9,54	0,23	0,05	0,18	2,71	2,64	220,1
VIS-CV5-UM-284	Stérile	Ultramafique	9,58	0,09	0,04	0,06	2,13	2,08	173,4
VIS-CV5-UM-285	Stérile	Ultramafique	9,3	0,05	0,04	0,02	0,06	0,01	1,2
VIS-CV5-UM-286	Stérile	Ultramafique	9,56	0,04	0,04	0,01	0,14	0,09	7,7
VIS-CV5-UM-287	Stérile	Ultramafique	9,34	0,15	0,04	0,1	0,31	0,27	22,5
VIS-CV5-UM-288	Stérile	Ultramafique	9,68	0,03	0,04	0,01	0,04	0,04	3,2
VIS-CV5-UM-289	Stérile	Ultramafique	9,56	0,03	0,04	0,01	0,05	0,05	4,0

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	$kgCaCO_3/t$	S.U.	S.U.	
VIS-CV5-MS-218	Stérile	Métasédiment	11,0	0,2	0,3	6,9	10,8	23,0	35,2	NPAG
VIS-CV5-MS-219	Stérile	Métasédiment	20,2	0,2	0,3	14,0	20,0	45,9	64,7	NPAG
VIS-CV5-MS-220	Stérile	Métasédiment	6,7	28,8	14,7	-11,8	-22,1	0,2	0,5	PAG
VIS-CV5-MS-221	Stérile	Métasédiment	17,6	29,7	17,5	-2,6	-12,1	0,8	1,0	PAG
VIS-CV5-MS-222	Stérile	Métasédiment	12,4	1,6	0,9	6,7	10,8	8,2	13,2	NPAG
VIS-CV5-MS-223	Stérile	Métasédiment	6,1	5,9	3,1	-0,8	0,2	0,7	2,0	PAG
VIS-CV5-MS-224	Stérile	Métasédiment	5,1	15,2	10,3	-9,2	-10,1	0,1	0,5	PAG
VIS-CV5-MS-225	Stérile	Métasédiment	7,3	0,4	0,3	2,7	6,9	9,6	23,4	NPAG
VIS-CV5-MS-226	Stérile	Métasédiment	46,7	5,3	2,8	41,7	41,4	15,8	16,6	NPAG
VIS-CV5-MS-227	Stérile	Métasédiment	10,7	54,9	43,7	-41,7	-44,2	0,0	0,2	PAG
VIS-CV5-MS-228	Stérile	Métasédiment	10,5	1,2	0,3	2,2	9,3	8,0	33,6	NPAG
VIS-CV5-MS-229	Stérile	Métasédiment	15,5	62,7	49,9	-42,3	-47,2	0,2	0,3	PAG
VIS-CV5-MS-230	Stérile	Métasédiment	17,0	9,0	6,2	2,8	8,0	1,4	2,7	NPAG
VIS-CV5-MS-231	Stérile	Métasédiment	5,8	33,1	25,0	-23,5	-27,3	0,1	0,2	PAG
VIS-CV5-MS-232	Stérile	Métasédiment	8,7	2,7	1,6	-0,4	6,0	0,7	5,6	NPAG
VIS-CV5-MS-233	Stérile	Métasédiment	11,5	0,2	0,3	0,8	11,3	3,5	36,8	NPAG
VIS-CV5-MS-234	Stérile	Métasédiment	6,3	9,6	6,2	1,7	-3,3	1,3	1,0	PAG
VIS-CV5-MS-235	Stérile	Métasédiment	10,2	0,5	0,3	1,5	9,7	5,9	32,7	NPAG
VIS-CV5-MS-236	Stérile	Métasédiment	10,7	0,2	0,3	2,9	10,5	10,2	34,3	NPAG
VIS-CV5-MS-237	Stérile	Métasédiment	6,4	0,2	0,3	1,4	6,2	5,3	20,5	NPAG
VIS-CV5-MS-238	Stérile	Métasédiment	17,1	1,0	0,6	7,5	16,1	13,1	27,4	NPAG
VIS-CV5-MS-239	Stérile	Métasédiment	18,1	17,0	14,0	-7,2	1,1	0,5	1,3	PAG
VIS-CV5-MS-240	Stérile	Métasédiment	8,6	3,7	1,2	0,4	4,9	1,3	6,9	NPAG
VIS-CV5-MS-241	Stérile	Métasédiment	6,9	5,3	3,1	-1,5	1,6	0,5	2,2	NPAG
VIS-CV5-MS-242	Stérile	Métasédiment	15,2	1,0	0,6	6,0	14,2	10,7	24,3	NPAG
VIS-CV5-MS-243	Stérile	Métasédiment	10,3	0,4	0,3	2,9	9,9	10,2	33,0	NPAG
VIS-CV5-MS-244	Stérile	Métasédiment	18,2	0,2	0,3	7,0	18,0	23,5	58,3	NPAG
VIS-CV5-MS-245	Stérile	Métasédiment	13,9	0,2	0,3	3,0	13,7	10,7	44,5	NPAG
VIS-CV5-MS-246	Stérile	Métasédiment	6,6	0,2	0,3	1,2	6,4	4,8	21,1	NPAG
VIS-CV5-MS-247	Stérile	Métasédiment	7,2	3,0	0,6	1,1	4,2	2,8	11,5	NPAG
VIS-CV5-MS-248	Stérile	Métasédiment	22,9	0,2	0,3	13,7	22,7	44,9	73,4	NPAG
VIS-CV5-MS-249	Stérile	Métasédiment	14,5	0,2	0,3	5,0	14,3	17,1	46,5	NPAG
VIS-CV5-MS-250	Stérile	Métasédiment	25,2	20,4	14,4	3,2	4,8	1,2	1,8	PAG
VIS-CV5-MS-251	Stérile	Métasédiment	10,6	5,6	4,1	-2,7	5,0	0,3	2,6	NPAG
VIS-CV5-MS-252	Stérile	Métasédiment	12,7	0,2	0,3	2,5	12,5	9,1	40,7	NPAG
VIS-CV5-MS-253	Stérile	Métasédiment	6,3	158,6	128,3	-125,3	-152,3	0,0	0,0	PAG
VIS-CV5-MS-254	Stérile	Métasédiment	9,7	0,5	0,3	1,4	9,2	5,3	31,1	NPAG
VIS-CV5-MS-255	Stérile	Métasédiment	9,7	6,1	4,7	-1,7	3,6	0,6	2,1	NPAG
VIS-CV5-MS-256	Stérile	Métasédiment	8,5	15,3	11,5	-10,5	-6,8	0,1	0,7	PAG
VIS-CV5-MS-257	Stérile	Métasédiment	3,5	2,7	0,3	1,4	0,8	5,3	11,2	NPAG
VIS-CV5-MS-258	Stérile	Métasédiment	10,8	0,7	0,3	1,7	10,1	6,4	34,6	NPAG
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	13,0	2,1	0,6	7,5	10,9	13,1	20,8	NPAG
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	3,6	0,2	0,3	1,2	3,4	4,8	11,5	NPAG
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	4,3	0,2	0,3	0,5	4,1	2,7	13,8	NPAG
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	3,7	0,2	0,3	1,7	3,5	6,4	11,9	NPAG
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	2,5	0,2	0,3	1,4	2,3	5,6	8,0	NPAG
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	3,3	0,2	0,3	0,7	3,1	3,2	10,6	NPAG
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	3,1	0,2	0,3	2,7	2,9	9,6	9,9	NPAG
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	3,8	0,2	0,3	2,6	3,6	9,3	12,2	NPAG
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	3,2	0,2	0,3	2,9	3,0	10,1	10,3	NPAG
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	4,5	0,2	0,3	2,8	4,3	9,9	14,4	NPAG
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	3,1	0,2	0,3	2,8	2,9	9,9	9,9	NPAG
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	10,1	0,2	0,3	5,2	9,9	17,6	32,4	NPAG
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	1,8	0,2	0,3	0,5	1,6	2,7	5,8	NPAG
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	3,1	0,2	0,3	1,0	2,9	4,3	9,9	NPAG
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	2,8	0,2	0,3	1,4	2,6	5,6	9,0	NPAG
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	20,8	0,2	0,3	6,7	20,6	22,4	66,6	NPAG
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	2,6	0,2	0,3	1,3	2,4	5,1	8,3	NPAG
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	2,1	0,2	0,3	1,0	1,9	4,3	6,7	NPAG
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	5,7	0,2	0,3	1,7	5,5	6,4	18,3	NPAG
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	6,3	0,2	0,3	1,4	6,1	5,3	20,2	NPAG
VIS-CV5-UM-279	Stérile	Ultramafique	198,0	17,7	10,3	198,1	180,3	20,2	19,2	NPAG
VIS-CV5-UM-280	Stérile	Ultramafique	45,7	0,7	0,3	32,4	45,0	104,7	146,4	NPAG
VIS-CV5-UM-281	Stérile	Ultramafique	14,2	9,6	6,2	-2,6	4,6	0,6	2,3	NPAG
VIS-CV5-UM-282	Stérile	Ultramafique	14,6	1,1	0,6	2,6	13,5	5,2	23,4	NPAG
VIS-CV5-UM-283	Stérile	Ultramafique	218,0	7,2	5,6	214,5	210,8	39,2	38,8	NPAG
VIS-CV5-UM-284	Stérile	Ultramafique	174,0	2,7	1,9	171,5	171,3	92,6	92,9	NPAG
VIS-CV5-UM-285	Stérile	Ultramafique	12,9	1,5	0,6	0,5	11,4	1,9	20,7	NPAG
VIS-CV5-UM-286	Stérile	Ultramafique	14,2	1,3	0,3	7,4	12,9	24,6	45,5	NPAG
VIS-CV5-UM-287	Stérile	Ultramafique	36,8	4,7	3,1	19,4	32,1	7,2	11,8	NPAG
VIS-CV5-UM-288	Stérile	Ultramafique	11,4	0,8	0,3	2,9	10,6	10,4	36,5	NPAG
VIS-CV5-UM-289	Stérile	Ultramafique	13,7	0,8	0,3	3,7	12,9	12,8	43,9	NPAG

Bilan acid-base

# échantillon	Type de matériel	Lithologie	pH en pâte	Soufre (total)	SO_4 lixiviable (HCl)	Sulfure	Carbone (total)	Carbonate	CO_3-NP
			Unité pH	%	%S	%S	%C	%C	$kgCaCO_3/t$
VIS-CV5-UM-290	Stérile	Ultramafique	9,64	0,55	0,22	0,32	0,27	0,22	18,3
VIS-CV5-UM-291	Stérile	Ultramafique	9,5	0,14	0,08	0,06	0,75	0,71	59,4
VIS-CV5-UM-292	Stérile	Ultramafique	9,6	0,06	0,06	0,01	0,36	0,32	26,5
VIS-CV5-UM-293	Stérile	Ultramafique	9,54	0,17	0,09	0,08	0,11	0,06	5,3
VIS-CV5-UM-294	Stérile	Ultramafique	9,38	0,08	0,05	0,04	0,31	0,27	22,7
VIS-CV5-UM-295	Stérile	Ultramafique	9,79	0,04	0,04	0,01	0,07	0,04	3,3
VIS-CV5-UM-296	Stérile	Ultramafique	9,77	0,02	0,04	0,02	0,11	0,07	6,2
VIS-CV5-UM-297	Stérile	Ultramafique	9,56	0,17	0,07	0,1	0,07	0,04	3,3
VIS-CV5-UM-298	Stérile	Ultramafique	9,65	0,04	0,04	0,04	0,04	0,03	2,3
VIS-CV5-UM-299	Stérile	Ultramafique	9,46	0,09	0,04	0,1	0,47	0,45	37,2
VIS-CV5-UM-300	Stérile	Ultramafique	9,54	0,04	0,04	0,04	0,16	0,14	11,7
VIS-CV5-UM-301	Stérile	Ultramafique	9,78	0,10	0,04	0,09	0,05	0,04	3,5
VIS-CV5-UM-302	Stérile	Ultramafique	9,98	0,33	0,06	0,27	0,25	0,23	19,0
VIS-CV5-UM-303	Stérile	Ultramafique	9,57	0,19	0,05	0,15	0,09	0,07	6,0
VIS-CV5-UM-304	Stérile	Ultramafique	9,7	0,07	0,04	0,05	0,17	0,15	12,8
VIS-CV5-UM-305	Stérile	Ultramafique	9,95	0,06	0,04	0,05	0,34	0,33	27,5
VIS-CV5-UM-306	Stérile	Ultramafique	9,72	0,13	0,04	0,09	0,11	0,09	7,5
VIS-CV5-UM-307	Stérile	Ultramafique	9,75	0,39	0,1	0,28	0,05	0,04	3,2
VIS-CV5-UM-308	Stérile	Ultramafique	9,72	0,12	0,04	0,09	0,09	0,07	5,8
VIS-CV5-UM-309	Stérile	Ultramafique	9,74	0,04	0,04	0,03	0,44	0,44	36,5
VIS-CV5-UM-310	Stérile	Ultramafique	10,05	0,03	0,04	0,02	0,34	0,35	28,8
VIS-CV5-UM-311	Stérile	Ultramafique	9,69	0,09	0,04	0,06	0,55	0,54	44,7
VIS-CV5-UM-312	Stérile	Ultramafique	9,75	0,02	0,04	0,01	0,05	0,04	3,0
VIS-CV5-UM-313	Stérile	Ultramafique	9,62	0,12	0,04	0,08	0,63	0,62	52,0
VIS-CV5-UM-314	Stérile	Ultramafique	10,07	0,06	0,04	0,05	0,21	0,21	17,5
VIS-CV5-UM-315	Stérile	Ultramafique	9,8	0,08	0,04	0,08	0,11	0,10	8,0
VIS-CV5-UM-316	Stérile	Ultramafique	9,59	0,26	0,15	0,12	2,84	2,74	228,4
VIS-CV5-UM-317	Stérile	Ultramafique	9,72	0,09	0,04	0,07	0,15	0,15	12,3
VIS-CV5-UM-318	Stérile	Ultramafique	9,77	0,04	0,04	0,03	0,14	0,12	10,0
VIS-CV5-UM-319	Stérile	Ultramafique	9,51	0,19	0,09	0,1	2,36	2,28	190,1
VIS-CV5-UM-320	Stérile	Ultramafique	10,11	0,02	0,04	0,01	0,14	0,13	10,8
VIS-CV5-UM-321	Stérile	Ultramafique	10,13	0,02	0,04	0,01	0,32	0,32	27,0
VIS-CV5-UM-322	Stérile	Ultramafique	9,54	0,08	0,04	0,06	0,27	0,26	22,0
VIS-CV5-UM-323	Stérile	Ultramafique	9,83	0,04	0,04	0,04	0,44	0,45	37,2
VIS-CV5-UM-324	Stérile	Ultramafique	9,9	0,04	0,04	0,02	0,26	0,24	20,2
VIS-CV5-UM-325	Stérile	Ultramafique	9,65	0,01	0,04	0,01	0,10	0,09	7,5
VIS-CV5-UM-326	Stérile	Ultramafique	8,68	0,38	0,11	0,27	0,07	0,05	4,2
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	9,87	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	9,85	0,01	0,04	0,01	0,02	0,02	1,8
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	10,3	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	9,96	0,01	0,04	0,01	0,01	0,01	1,2
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	10,24	0,01	0,04	0,01	0,02	0,02	1,7
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	10,1	0,01	0,04	0,01	0,02	0,02	1,4
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	10,02	0,01	0,04	0,01	0,01	0,01	1,1
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	9,76	0,01	0,04	0,01	0,02	0,02	1,4
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	9,23	0,01	0,04	0,01	0,02	0,02	1,5
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	9,49	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	10,02	0,01	0,04	0,01	0,01	0,01	0,9
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	9,91	0,01	0,04	0,01	0,02	0,02	1,6
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	10,06	0,01	0,04	0,01	0,02	0,02	1,5
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	9,93	0,01	0,04	0,01	0,04	0,04	3,4
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	9,85	0,01	0,04	0,01	0,04	0,04	3,4
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	9,26	0,01	0,04	0,01	0,03	0,03	2,2
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	9,81	0,01	0,04	0,01	0,09	0,08	6,5
CV5-MAG-C	Résidu	Magnétique	9,71	0,10	0,06	0,04	0,12	0,10	8,5
CV5-DMS-MID	Résidu	Middlings	9,96	0,03	0,04	0,01	0,07	0,03	2,7
CV5-FLO-C	Résidu	Flottation	10,35	0,01	0,04	0,01	0,02	0,02	1,4
CV5-MAG-F	Résidu	Magnétique	9,78	0,08	0,04	0,04	0,12	0,09	7,5
CV5-MID-F	Résidu	Middlings	9,89	0,02	0,04	0,01	0,06	0,04	3,5
CV5-FLO-F	Résidu	Flottation	10,29	0,01	0,04	0,01	0,02	0,02	1,8
CV5-BYP-CP	Résidu	Bypass	10	0,03	0,04	0,01	0,14	0,05	4,2

Bilan acid-base

# échantillon	Type de matériel	Lithologie	Sobek-NP	Sobek-AP	Sulfure-AP	CO_3-NNP	Sobek-NNP	CO_3-NPR	Sobek-NPR	Classification Sobek
			kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	kg$CaCO_3$/t	S.U.	S.U.	
VIS-CV5-UM-290	Stérile	Ultramafique	29,8	17,0	10,0	8,4	12,8	1,8	3,0	NPAG
VIS-CV5-UM-291	Stérile	Ultramafique	69,9	4,3	1,9	57,5	65,6	31,7	37,3	NPAG
VIS-CV5-UM-292	Stérile	Ultramafique	29,6	2,0	0,3	26,2	27,6	84,9	94,8	NPAG
VIS-CV5-UM-293	Stérile	Ultramafique	18,9	5,3	2,5	2,8	13,6	2,1	7,6	NPAG
VIS-CV5-UM-294	Stérile	Ultramafique	41,3	2,5	1,2	21,4	38,8	18,2	33,1	NPAG
VIS-CV5-UM-295	Stérile	Ultramafique	13,0	1,2	0,3	3,0	11,8	10,7	41,6	NPAG
VIS-CV5-UM-296	Stérile	Ultramafique	16,6	0,6	0,6	5,5	16,0	9,9	26,6	NPAG
VIS-CV5-UM-297	Stérile	Ultramafique	16,6	5,3	3,1	0,2	11,3	1,1	5,3	NPAG
VIS-CV5-UM-298	Stérile	Ultramafique	12,2	1,2	1,2	1,1	11,0	1,9	9,8	NPAG
VIS-CV5-UM-299	Stérile	Ultramafique	47,5	2,9	3,1	34,1	44,6	11,9	15,2	NPAG
VIS-CV5-UM-300	Stérile	Ultramafique	26,8	1,2	1,2	10,4	25,6	9,3	21,5	NPAG
VIS-CV5-UM-301	Stérile	Ultramafique	10,3	3,0	2,8	0,7	7,3	1,2	3,7	NPAG
VIS-CV5-UM-302	Stérile	Ultramafique	25,5	10,4	8,4	10,6	15,1	2,3	3,0	NPAG
VIS-CV5-UM-303	Stérile	Ultramafique	16,6	6,1	4,7	1,3	10,5	1,3	3,5	NPAG
VIS-CV5-UM-304	Stérile	Ultramafique	18,0	2,2	1,6	11,3	15,8	8,2	11,5	NPAG
VIS-CV5-UM-305	Stérile	Ultramafique	32,6	1,9	1,6	26,0	30,7	17,6	20,9	NPAG
VIS-CV5-UM-306	Stérile	Ultramafique	13,5	4,0	2,8	4,7	9,5	2,7	4,8	NPAG
VIS-CV5-UM-307	Stérile	Ultramafique	11,0	12,1	8,7	-5,6	-1,1	0,4	1,3	PAG
VIS-CV5-UM-308	Stérile	Ultramafique	14,9	3,7	2,8	3,0	11,2	2,1	5,3	NPAG
VIS-CV5-UM-309	Stérile	Ultramafique	41,8	1,3	0,9	35,6	40,5	39,0	44,6	NPAG
VIS-CV5-UM-310	Stérile	Ultramafique	34,5	1,0	0,6	28,2	33,5	46,2	55,3	NPAG
VIS-CV5-UM-311	Stérile	Ultramafique	48,4	2,9	1,9	42,8	45,5	23,9	25,8	NPAG
VIS-CV5-UM-312	Stérile	Ultramafique	12,5	0,6	0,3	2,7	11,9	9,6	40,0	NPAG
VIS-CV5-UM-313	Stérile	Ultramafique	48,8	3,6	2,5	49,5	45,2	20,8	19,5	NPAG
VIS-CV5-UM-314	Stérile	Ultramafique	22,9	1,8	1,6	15,9	21,1	11,2	14,7	NPAG
VIS-CV5-UM-315	Stérile	Ultramafique	17,8	2,6	2,5	5,5	15,2	3,2	7,1	NPAG
VIS-CV5-UM-316	Stérile	Ultramafique	138,0	8,2	3,7	224,7	129,8	61,0	36,8	NPAG
VIS-CV5-UM-317	Stérile	Ultramafique	18,1	2,7	2,2	10,2	15,4	5,6	8,3	NPAG
VIS-CV5-UM-318	Stérile	Ultramafique	18,3	1,3	0,9	9,1	17,0	10,7	19,5	NPAG
VIS-CV5-UM-319	Stérile	Ultramafique	105,0	5,9	3,1	187,0	99,1	60,9	33,6	NPAG
VIS-CV5-UM-320	Stérile	Ultramafique	18,5	0,5	0,3	10,5	18,0	34,7	59,3	NPAG
VIS-CV5-UM-321	Stérile	Ultramafique	28,6	0,5	0,3	26,7	28,1	86,5	91,6	NPAG
VIS-CV5-UM-322	Stérile	Ultramafique	27,3	2,5	1,9	20,1	24,8	11,8	14,6	NPAG
VIS-CV5-UM-323	Stérile	Ultramafique	43,2	1,3	1,2	35,9	41,9	29,8	34,6	NPAG
VIS-CV5-UM-324	Stérile	Ultramafique	26,5	1,2	0,6	19,6	25,3	32,3	42,4	NPAG
VIS-CV5-UM-325	Stérile	Ultramafique	18,0	0,2	0,3	7,2	17,8	24,0	57,7	NPAG
VIS-CV5-UM-326	Stérile	Ultramafique	10,4	11,9	8,4	-4,3	-1,5	0,5	1,2	PAG
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	3,5	0,2	0,3	1,4	3,3	5,3	11,2	NPAG
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	2,3	0,2	0,3	1,5	2,1	5,9	7,4	NPAG
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	2,7	0,2	0,3	0,8	2,5	3,5	8,7	NPAG
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	2,6	0,2	0,3	0,9	2,4	3,7	8,3	NPAG
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	2,9	0,2	0,3	1,4	2,7	5,6	9,3	NPAG
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	2,9	0,2	0,3	1,1	2,7	4,5	9,3	NPAG
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	2,8	0,2	0,3	0,8	2,6	3,5	9,0	NPAG
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	1,4	0,2	0,3	1,1	1,2	4,5	4,5	NPAG
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	2,5	0,2	0,3	1,2	2,3	4,8	8,0	NPAG
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	2,2	0,2	0,3	1,3	2,0	5,1	7,0	NPAG
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	2,4	0,2	0,3	0,6	2,2	2,9	7,7	NPAG
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	2,1	0,2	0,3	1,3	1,9	5,1	6,7	NPAG
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	2,4	0,2	0,3	1,2	2,2	4,8	7,7	NPAG
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	2,5	0,2	0,3	3,1	2,3	10,9	8,0	NPAG
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	2,5	0,2	0,3	3,1	2,3	10,9	8,0	NPAG
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	2,5	0,2	0,3	1,9	2,3	6,9	8,0	NPAG
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	11,0	0,2	0,3	6,2	10,8	20,8	35,2	NPAG
CV5-MAG-C	Résidu	Magnétique	19,5	3,1	1,2	7,3	16,4	6,8	15,6	NPAG
CV5-DMS-MID	Résidu	Middlings	9,4	0,9	0,3	2,4	8,5	8,5	30,1	NPAG
CV5-FLO-C	Résidu	Flottation	3,3	0,2	0,3	1,1	3,1	4,5	10,6	NPAG
CV5-MAG-F	Résidu	Magnétique	21,6	2,4	1,2	6,3	19,2	6,0	17,3	NPAG
CV5-MID-F	Résidu	Middlings	9,4	0,6	0,3	3,2	8,8	11,2	30,1	NPAG
CV5-FLO-F	Résidu	Flottation	3,8	0,2	0,3	1,5	3,6	5,9	12,2	NPAG
CV5-BYP-CP	Résidu	Bypass	10,1	1,0	0,3	3,9	9,1	13,4	32,4	NPAG

Annexe C : Résultats des essais de lixiviation

Essais SPLP

# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
1	Stérile	Amphibolite	9,45	8,4	58	22	<2,0	<20,0	<0,00001	<0,00005
2	Stérile	Amphibolite	9,25	8,01	60	20	<2,0	<20,0	<0,00001	<0,00005
3	Stérile	Amphibolite	9,51	8,31	54	25	<2,0	<20,0	<0,00001	<0,00005
4	Stérile	Amphibolite	9,57	8,49	41	16	<2,0	<20,0	<0,00001	<0,00005
5	Stérile	Amphibolite	9,47	8,22	59	20	<2,0	<20,0	<0,00001	<0,00005
6	Stérile	Amphibolite	9,51	7,76	47	22	<2,0	<20,0	<0,00001	<0,00005
7	Stérile	Amphibolite	9,53	8,49	56	23	<2,0	<20,0	<0,00001	<0,00005
8	Stérile	Amphibolite	9,57	8,42	53	21	<2,0	<20,0	<0,00001	<0,00005
9	Stérile	Amphibolite	9,66	8,66	51	21	<2,0	<20,0	<0,00001	<0,00005
10	Stérile	Amphibolite	9,44	8,21	51	16	<2,0	<20,0	<0,00001	<0,00005
11	Stérile	Amphibolite	9,66	8,54	50	21	<2,0	<20,0	<0,00001	<0,00005
12	Stérile	Amphibolite	9,64	8,66	52	21	<2,0	<20,0	<0,00001	<0,00005
13	Stérile	Amphibolite	9,59	8,07	56	22	<2,0	<20,0	<0,00001	<0,00005
14	Stérile	Amphibolite	9,61	8,32	56	21	<2,0	<20,0	<0,00001	<0,00005
15	Stérile	Amphibolite	9,62	8,44	53	22	<2,0	<20,0	<0,00001	<0,00005
16	Stérile	Métasédiment	9,1	7,8	85	21	<2,0	<20,0	<0,00001	<0,00005
17	Stérile	Amphibolite	8,42	7,88	92	22	<2,0	<20,0	<0,00001	<0,00005
18	Stérile	Amphibolite	9,35	8,19	57	21	<2,0	<20,0	<0,00001	<0,00005
19	Stérile	Pegmatite stérile	9,47	7,91	54	21	<2,0	<20,0	<0,00001	<0,00005
20	Stérile	Amphibolite	7,71	7,66	196	26	<2,0	<20,0	<0,00001	<0,00005
21	Stérile	Amphibolite	9,57	8,23	54	24	<2,0	<20,0	<0,00001	<0,00005
22	Stérile	Amphibolite	9,52	8,35	54	23	<2,0	<20,0	<0,00001	<0,00005
23	Stérile	Métasédiment	8,26	7,73	131	17	<2,0	<20,0	<0,00001	<0,00005
24	Stérile	Amphibolite	9,53	8,19	52	22	<2,0	<20,0	<0,00001	<0,00005
25	Stérile	Métasédiment	9,32	8,44	53	20	<2,0	<20,0	<0,00001	<0,00005
26	Stérile	Amphibolite	9,51	8,43	50	21	<2,0	<20,0	<0,00001	<0,00005
27	Stérile	Amphibolite	9,33	8,07	67	23	<2,0	<20,0	<0,00001	<0,00005
28	Stérile	Amphibolite	---	8,05	50	21	<2,0	<20,0	<0,00001	<0,0005
29	Stérile	Amphibolite	---	8,14	64	29	<2,0	<20,0	<0,00001	<0,0005
30	Stérile	Amphibolite	---	8,91	48	22	<2,0	<20,0	<0,00001	<0,0005
31	Stérile	Métasédiment	9,44	8,02	52	20	<2,0	<20,0	<0,00001	<0,00005
32	Stérile	Amphibolite	9,6	8,29	52	23	<2,0	<20,0	<0,00001	<0,00005
33	Stérile	Amphibolite	9,51	8,28	53	22	<2,0	<20,0	<0,00011	<0,00005
34	Stérile	Métasédiment	9,49	7,91	50	22	<2,0	<20,0	<0,00001	<0,00005
35	Stérile	Métasédiment	9,57	7,88	50	23	<2,0	<20,0	<0,00002	<0,00005
36	Stérile	Ultramafique	9,46	8,44	55	25	<2,0	<20,0	<0,00001	<0,00005
37	Stérile	Amphibolite	9,24	7,87	66	25	<2,0	<20,0	<0,00001	<0,00005
38	Stérile	Métasédiment	8,75	7,18	27	6	<2,0	<20,0	<0,00001	<0,00005
39	Stérile	Métasédiment	9,14	7,62	55	17	<2,0	<20,0	<0,00001	<0,00005
40	Stérile	Métasédiment	9,23	7,76	51	18	<2,0	<20,0	<0,00001	<0,00005
41	Stérile	Métasédiment	9,26	7,68	51	16	<2,0	<20,0	<0,00001	<0,00005
42	Stérile	Métasédiment	9	7,66	72	18	<2,0	<20,0	<0,00001	<0,00005
43	Stérile	Métasédiment	8,98	7,78	78	21	<2,0	<20,0	<0,00001	<0,00005
44	Stérile	Métasédiment	9,12	7,84	45	21	<2,0	<20,0	<0,00001	<0,00005
45	Stérile	Métasédiment	9,23	7,75	45	18	<2,0	<20,0	<0,00001	<0,00005
46	Stérile	Métasédiment	9,29	7,82	48	21	<2,0	<20,0	<0,00001	<0,00005
47	Stérile	Métasédiment	9,1	7,67	53	17	<2,0	<20,0	<0,00001	<0,00005
48	Stérile	Métasédiment	---	8,52	52	24	<2,0	<20,0	<0,00001	<0,0005
49	Stérile	Métasédiment	9,1	7,82	49	21	<2,0	<20,0	<0,00001	<0,00005
50	Stérile	Métasédiment	8,97	7,73	73	22	<2,0	<20,0	<0,00001	<0,00005
51	Stérile	Métasédiment	8,89	7,73	48	13	<2,0	<20,0	<0,00001	<0,00005
52	Stérile	Métasédiment	9,25	8	50	22	<2,0	<20,0	<0,00001	<0,00005
53	Stérile	Métasédiment	9,35	7,84	54	21	<2,0	<20,0	<0,00001	<0,00005
54	Stérile	Métasédiment	---	8,43	50	21	<2,0	<20,0	<0,00001	<0,0005
55	Stérile	Métasédiment	9,32	7,88	49	21	<2,0	<20,0	<0,00001	<0,00005
56	Stérile	Amphibolite	9,44	8,44	50	23	<2,0	<20,0	<0,00001	<0,00005
57	Stérile	Métasédiment	9,43	7,77	51	21	<2,0	<20,0	<0,00001	<0,00005
58	Stérile	Ultramafique	9,53	8,25	59	26	<2,0	<20,0	<0,00001	<0,00005
59	Stérile	Ultramafique	9,27	8,65	52	23	<2,0	<20,0	<0,00001	<0,00005
60	Stérile	Ultramafique	9,53	9,15	64	32	<2,0	<20,0	<0,00001	<0,00005
61	Stérile	Ultramafique	9,42	8,14	49	22	<2,0	<20,0	<0,00001	<0,00005
62	Stérile	Ultramafique	9,47	9,01	61	42	<2,0	<20,0	<0,00001	<0,00005
63	Stérile	Pegmatite stérile	8,83	7,99	43	16	<2,0	<20,0	<0,00001	<0,00005
64	Stérile	Pegmatite stérile	8,8	7,58	37	13	<2,0	<20,0	<0,00001	<0,00005
65	Stérile	Pegmatite stérile	8,55	7,64	28	9	<2,0	<20,0	<0,00001	<0,00005
66	Stérile	Pegmatite stérile	8,24	7,24	24	7	<2,0	<20,0	<0,00001	<0,00005
67	Stérile	Pegmatite stérile	7,23	7,05	19	4	<2,0	<20,0	<0,00001	<0,00005
68	Stérile	Pegmatite stérile	---	7,74	30	11	<2,0	<20,0	<0,00001	<0,0005
69	Stérile	Pegmatite stérile	9,3	7,5	52	16	<2,0	<20,0	<0,00001	<0,00005
70	Stérile	Pegmatite stérile	9	7,69	46	17	<2,0	<20,0	<0,00001	<0,00005

Essais SPLP

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
1	Stérile	Amphibolite	0,933	0,001	0,007	0,00374	<0,000007	0,00002	6,11	<0,000003
2	Stérile	Amphibolite	0,815	0,01	0,01	0,00119	<0,000007	<0,00001	7,1	<0,000003
3	Stérile	Amphibolite	1,03	0,0011	0,003	0,00191	<0,000007	<0,00001	7,89	<0,000003
4	Stérile	Amphibolite	0,797	0,0139	0,005	0,0002	0,000011	0,00004	4,99	<0,000003
5	Stérile	Amphibolite	0,729	0,119	0,01	0,00073	<0,000007	<0,00001	7,84	<0,000003
6	Stérile	Amphibolite	0,976	0,0005	<0,002	0,00027	<0,000007	<0,00001	8,02	<0,000003
7	Stérile	Amphibolite	0,849	0,0069	0,005	0,00034	<0,000007	<0,00001	7,9	<0,000003
8	Stérile	Amphibolite	1,1	0,0007	0,005	0,00021	<0,000007	0,00002	7,55	<0,000003
9	Stérile	Amphibolite	1,13	0,0009	0,003	0,00017	<0,000007	0,00002	7,66	<0,000003
10	Stérile	Amphibolite	0,855	0,0063	0,008	0,00036	<0,000007	<0,00001	7,35	<0,000003
11	Stérile	Amphibolite	0,954	0,0136	0,012	0,00036	<0,000007	<0,00001	7,28	<0,000003
12	Stérile	Amphibolite	1,14	0,0027	0,006	0,00027	<0,000007	0,00002	7,94	<0,000003
13	Stérile	Amphibolite	0,758	0,0228	0,011	0,00023	0,000016	<0,00001	7,01	<0,000003
14	Stérile	Amphibolite	0,858	0,0282	0,005	0,00019	<0,000007	<0,00001	7,09	<0,000003
15	Stérile	Amphibolite	1,03	0,0026	0,01	0,00039	<0,000007	<0,00001	7,36	<0,000003
16	Stérile	Métasédiment	0,662	0,0009	0,004	0,004	<0,000007	<0,00001	11,1	0,000004
17	Stérile	Amphibolite	0,601	0,0014	0,003	0,00456	<0,000007	<0,00001	11,6	<0,000003
18	Stérile	Amphibolite	0,987	0,0245	0,006	0,00057	0,000008	<0,00001	7,82	<0,000003
19	Stérile	Pegmatite stérile	1,14	0,0011	0,003	0,00036	<0,000007	<0,00001	8,05	<0,000003
20	Stérile	Amphibolite	0,01	0,0002	0,004	0,08432	<0,000007	0,00002	26,7	<0,000003
21	Stérile	Amphibolite	0,88	0,0266	0,006	0,00531	<0,000007	<0,00001	7,12	<0,000003
22	Stérile	Amphibolite	0,627	0,101	0,006	0,00021	<0,000007	<0,00001	7,3	<0,000003
23	Stérile	Métasédiment	0,028	0,0004	0,006	0,00494	<0,000007	<0,00001	17,8	<0,000003
24	Stérile	Amphibolite	1,15	0,0025	0,003	0,01002	<0,000007	<0,00001	6,1	<0,000003
25	Stérile	Métasédiment	0,542	0,0239	0,062	0,00816	<0,000007	<0,00001	5,53	<0,000003
26	Stérile	Amphibolite	1,04	0,0013	0,007	0,00056	<0,000007	<0,00001	7,38	<0,000003
27	Stérile	Amphibolite	0,712	0,0096	0,01	0,00043	<0,000007	<0,00001	9,18	0,000008
28	Stérile	Amphibolite	0,53	0,043	<0,02	0,0008	<0,00007	<0,0001	8	0,00005
29	Stérile	Amphibolite	0,53	0,04	<0,02	0,0009	<0,00007	<0,0001	9,8	0,00004
30	Stérile	Amphibolite	0,69	0,002	<0,02	0,0008	<0,00007	<0,0001	7,8	0,00003
31	Stérile	Métasédiment	1,2	0,0451	0,011	0,00148	0,000011	<0,00001	5,39	<0,000003
32	Stérile	Amphibolite	0,926	0,0024	0,003	0,001	<0,000007	<0,00001	7,62	<0,000003
33	Stérile	Amphibolite	0,891	0,0038	0,005	0,00122	<0,000007	<0,00001	7,89	<0,000003
34	Stérile	Métasédiment	1,12	0,0523	0,009	0,00134	0,000008	<0,00001	5,67	<0,000003
35	Stérile	Métasédiment	1,05	0,0095	0,005	0,00285	<0,000007	<0,00001	5,34	<0,000003
36	Stérile	Ultramafique	0,078	0,343	0,076	0,00259	<0,000007	<0,00001	6,85	<0,000003
37	Stérile	Amphibolite	0,799	0,819	0,094	0,00057	0,000013	<0,00001	10,5	<0,000003
38	Stérile	Métasédiment	0,285	0,0047	0,007	0,00064	0,00006	<0,00001	2	<0,000003
39	Stérile	Métasédiment	0,672	0,0392	0,005	0,00095	<0,000007	<0,00001	7,49	<0,000003
40	Stérile	Métasédiment	0,838	0,0094	0,009	0,00107	<0,000007	<0,00001	7,32	<0,000003
41	Stérile	Métasédiment	0,686	0,0018	0,009	0,00091	<0,000007	<0,00001	6,43	<0,000003
42	Stérile	Métasédiment	0,6	0,0014	0,006	0,00106	<0,000007	<0,00001	10,4	<0,000003
43	Stérile	Métasédiment	0,738	0,001	0,011	0,00198	<0,000007	<0,00001	10,1	<0,000003
44	Stérile	Métasédiment	0,929	0,0039	0,002	0,00209	0,000042	<0,00001	6,8	<0,000003
45	Stérile	Métasédiment	0,906	0,0014	0,002	0,00238	<0,000007	<0,00001	6,38	<0,000003
46	Stérile	Métasédiment	0,956	0,0019	0,002	0,00294	<0,000007	<0,00001	6,47	<0,000003
47	Stérile	Métasédiment	0,703	0,0023	0,002	0,00478	<0,000007	<0,00001	6,26	<0,000003
48	Stérile	Métasédiment	0,67	0,012	<0,02	0,0008	<0,00007	<0,0001	7,9	< 0.00003
49	Stérile	Métasédiment	0,895	0,0194	0,01	0,00109	<0,000007	<0,00001	4,73	<0,000003
50	Stérile	Métasédiment	0,788	0,0621	0,004	0,0009	<0,000007	<0,00001	8,93	<0,000003
51	Stérile	Métasédiment	0,641	0,0085	0,003	0,00081	<0,000007	<0,00001	6,17	<0,000003
52	Stérile	Métasédiment	0,874	0,0024	0,005	0,00128	<0,000007	<0,00001	7,49	<0,000003
53	Stérile	Métasédiment	0,768	0,87	<0,002	0,00772	<0,000007	<0,00001	6,34	<0,000003
54	Stérile	Métasédiment	0,74	0,018	0,02	0,0008	<0,00007	<0,0001	7,3	< 0.00003
55	Stérile	Métasédiment	0,261	0,0809	0,002	0,00318	<0,000007	<0,00001	7,33	<0,000003
56	Stérile	Amphibolite	0,688	0,008	0,007	0,00304	<0,000007	<0,00001	6,95	<0,000003
57	Stérile	Métasédiment	0,47	0,0024	0,006	0,00563	<0,000007	<0,00001	7,14	<0,000003
58	Stérile	Ultramafique	0,042	0,3	0,027	0,00052	<0,000007	<0,00001	7,35	<0,000003
59	Stérile	Ultramafique	0,162	0,173	0,005	0,00029	<0,000007	<0,00001	7,1	<0,000003
60	Stérile	Ultramafique	0,013	0,241	0,016	0,00098	<0,000007	<0,00001	6,46	<0,000003
61	Stérile	Ultramafique	0,125	0,0266	0,065	0,00022	<0,000007	<0,00001	7,46	<0,000003
62	Stérile	Ultramafique	0,01	1,17	0,012	0,00083	<0,000007	<0,00001	7,93	<0,000003
63	Stérile	Pegmatite stérile	0,675	0,0571	<0,02	0,00018	0,000187	0,00133	5,86	<0,000003
64	Stérile	Pegmatite stérile	0,721	0,0708	0,009	0,00051	0,00009	<0,00001	4,23	<0,000003
65	Stérile	Pegmatite stérile	0,442	0,0437	0,006	0,00126	0,000066	0,00022	3,44	<0,000003
66	Stérile	Pegmatite stérile	0,311	0,0501	0,007	0,00022	0,000123	0,00006	2,26	<0,000003
67	Stérile	Pegmatite stérile	0,164	0,0091	0,005	0,00016	0,00008	0,00026	1,2	<0,000003
68	Stérile	Pegmatite stérile	0,4	0,066	<0,02	0,0008	0,00016	0,0004	4,5	< 0.00003
69	Stérile	Pegmatite stérile	0,754	0,0301	0,016	0,00024	0,000546	0,0008	6,34	<0,000003
70	Stérile	Pegmatite stérile	0,529	0,0314	0,007	0,00025	0,000545	0,00016	7,09	0,000031

Essais SPLP

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
1	Stérile	Amphibolite	0,000026	0,00025	0,0002	0,028	6,04	0,0504	0,575	0,00114
2	Stérile	Amphibolite	0,000037	0,00028	0,0002	0,047	2,5	0,0421	0,955	0,00121
3	Stérile	Amphibolite	0,000014	<0,00008	0,0002	0,016	1,33	0,0189	0,72	0,00109
4	Stérile	Amphibolite	0,000061	0,00048	0,0008	0,069	0,474	0,0252	1,18	0,00173
5	Stérile	Amphibolite	0,000035	0,00037	0,0002	0,023	1,22	0,0852	1,04	0,00135
6	Stérile	Amphibolite	0,000007	0,00024	<0,0002	0,007	0,254	0,0118	0,696	0,00141
7	Stérile	Amphibolite	0,000025	<0,00008	0,0003	0,011	0,868	0,0147	0,931	0,00074
8	Stérile	Amphibolite	0,000061	0,0003	0,0004	0,08	0,199	0,0134	0,947	0,00185
9	Stérile	Amphibolite	0,000042	0,00025	0,0003	0,055	0,355	0,0017	0,792	0,00141
10	Stérile	Amphibolite	0,000034	0,00009	0,0003	0,066	0,408	0,0153	0,849	0,001
11	Stérile	Amphibolite	0,000014	<0,00008	<0,0002	0,01	0,523	0,0283	0,847	0,00055
12	Stérile	Amphibolite	0,000035	0,00019	0,0004	0,026	0,692	0,0048	0,838	0,00142
13	Stérile	Amphibolite	0,000013	<0,00008	0,0003	0,013	0,843	0,0302	0,659	0,00039
14	Stérile	Amphibolite	0,000013	<0,00008	<0,0002	0,01	0,197	0,0099	0,703	0,00051
15	Stérile	Amphibolite	0,000008	<0,00008	<0,0002	<0,007	0,912	0,0103	0,8	0,00071
16	Stérile	Métasédiment	0,000037	<0,00008	<0,0002	0,024	3,19	0,0555	0,789	0,00387
17	Stérile	Amphibolite	0,000037	0,00013	<0,0002	0,024	4,82	0,0353	0,77	0,00222
18	Stérile	Amphibolite	0,000034	0,00021	<0,0002	0,034	1,24	0,0238	0,876	0,00097
19	Stérile	Pegmatite stérile	0,000044	0,0004	0,0007	0,034	0,192	0,0045	0,625	0,0017
20	Stérile	Amphibolite	0,000514	<0,00008	<0,0002	0,007	10,5	0,0637	1,35	0,0358
21	Stérile	Amphibolite	0,000011	0,00014	<0,0002	0,008	2,45	0,0108	0,823	0,00056
22	Stérile	Amphibolite	0,000015	0,00026	<0,0002	0,013	0,369	0,0328	1,08	0,00043
23	Stérile	Métasédiment	0,000397	<0,00008	<0,0002	0,007	2,7	0,0367	2,22	0,04418
24	Stérile	Amphibolite	0,000027	0,00011	0,0003	0,065	3,47	0,0089	0,489	0,00093
25	Stérile	Métasédiment	0,000024	0,00084	<0,0002	0,024	5,28	0,0308	0,84	0,00044
26	Stérile	Amphibolite	0,000014	0,00022	<0,0002	0,037	0,586	0,0248	0,851	0,00079
27	Stérile	Amphibolite	0,000021	0,00018	<0,0002	0,016	0,693	0,0102	0,76	0,00098
28	Stérile	Amphibolite	0,00005	<0,0008	0,002	<0,07	0,94	0,046	0,79	0,0017
29	Stérile	Amphibolite	0,00004	<0,0008	<0,002	<0,07	2,2	0,08	0,84	0,0008
30	Stérile	Amphibolite	0,00004	<0,0008	<0,002	<0,07	0,85	0,019	0,58	0,0007
31	Stérile	Métasédiment	0,000034	<0,00008	<0,0002	0,051	5,09	0,109	0,394	0,00172
32	Stérile	Amphibolite	0,000014	<0,00008	<0,0002	0,017	0,881	0,0084	0,822	0,00078
33	Stérile	Amphibolite	0,000007	<0,00008	<0,0002	0,008	1,14	0,0196	0,661	0,0008
34	Stérile	Métasédiment	0,000039	<0,00008	<0,0002	0,047	4,78	0,133	0,355	0,00153
35	Stérile	Métasédiment	0,000018	0,00011	0,0007	0,038	6,01	0,0814	0,425	0,00123
36	Stérile	Ultramafique	0,00002	0,00388	<0,0002	0,007	0,66	0,019	2,42	0,0002
37	Stérile	Amphibolite	0,000021	<0,00008	<0,0002	0,007	2,22	0,0739	0,692	0,0014
38	Stérile	Métasédiment	0,000032	<0,00008	0,0003	0,042	1,39	0,0485	0,374	0,00352
39	Stérile	Métasédiment	0,00002	0,00012	<0,0002	0,02	1,96	0,0548	0,766	0,0012
40	Stérile	Métasédiment	0,000018	<0,00008	<0,0002	0,021	1,62	0,0674	0,369	0,00107
41	Stérile	Métasédiment	0,000017	<0,00008	<0,0002	0,016	2,48	0,0278	0,532	0,00095
42	Stérile	Métasédiment	0,00002	<0,00008	0,0004	0,012	2,61	0,0283	0,923	0,00281
43	Stérile	Métasédiment	0,000012	<0,00008	<0,0002	0,014	4,31	0,0399	0,725	0,00109
44	Stérile	Métasédiment	0,000018	0,00015	0,0003	0,015	2,3	0,0299	0,177	0,00114
45	Stérile	Métasédiment	0,000027	0,00023	<0,0002	0,032	3,29	0,0027	0,164	0,00155
46	Stérile	Métasédiment	0,000018	0,00011	<0,0002	0,028	4,48	0,0037	0,182	0,00134
47	Stérile	Métasédiment	0,000045	<0,00008	<0,0002	0,051	4,81	0,0108	0,532	0,00185
48	Stérile	Métasédiment	0,00004	<0,0008	0,002	<0,07	0,22	0,047	0,88	0,0004
49	Stérile	Métasédiment	0,000025	<0,00008	0,0004	0,045	6,49	0,207	0,435	0,0015
50	Stérile	Métasédiment	0,000056	<0,00008	<0,0002	0,011	4,48	0,08	0,587	0,00117
51	Stérile	Métasédiment	0,000018	<0,00008	<0,0002	0,014	1,66	0,0363	0,597	0,0025
52	Stérile	Métasédiment	0,000011	<0,00008	<0,0002	0,019	2,84	0,0368	0,535	0,00138
53	Stérile	Métasédiment	0,000011	<0,00008	<0,0002	0,027	5,94	0,0324	0,359	0,00172
54	Stérile	Métasédiment	0,00004	<0,0008	<0,002	0,13	2,33	0,056	0,33	0,0017
55	Stérile	Métasédiment	0,000019	0,00141	<0,0002	0,008	0,824	0,0077	1,51	0,00049
56	Stérile	Amphibolite	0,000013	<0,00008	0,0003	0,007	3,81	0,0267	0,696	0,0008
57	Stérile	Métasédiment	0,000018	0,00015	<0,0002	0,019	3,31	0,0301	0,802	0,00084
58	Stérile	Ultramafique	0,000016	0,00293	<0,0002	<0,007	0,455	0,0099	3,18	0,00018
59	Stérile	Ultramafique	0,000022	0,00326	<0,0002	0,016	0,394	0,0141	2,19	0,00065
60	Stérile	Ultramafique	0,000016	0,00261	<0,0002	<0,007	1,7	0,0295	4,85	0,00044
61	Stérile	Ultramafique	0,000008	0,00037	<0,0002	<0,007	0,319	0,0025	1,8	0,00041
62	Stérile	Ultramafique	0,00003	0,00278	<0,0002	<0,007	0,333	0,0018	3,6	0,00036
63	Stérile	Pegmatite stérile	0,000015	0,00017	<0,0002	<0,007	2,49	0,009	0,114	0,00383
64	Stérile	Pegmatite stérile	0,000008	<0,00008	<0,0002	<0,007	3,79	0,0629	0,139	0,00914
65	Stérile	Pegmatite stérile	0,00002	<0,00008	<0,0002	<0,007	2,92	0,0242	0,082	0,01122
66	Stérile	Pegmatite stérile	0,000039	0,00009	<0,0002	<0,007	2,26	0,0172	0,063	0,00675
67	Stérile	Pegmatite stérile	0,000039	0,00012	<0,0002	<0,007	2,8	0,0055	0,054	0,00566
68	Stérile	Pegmatite stérile	0,00004	0,0008	<0,002	<0,07	1,86	0,045	0,05	0,0276
69	Stérile	Pegmatite stérile	0,000016	<0,00008	0,0003	<0,007	0,987	0,0394	0,164	0,00207
70	Stérile	Pegmatite stérile	0,000083	<0,00008	0,0036	<0,01	0,922	0,0186	0,249	0,00329

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
1	Stérile	Amphibolite	0,00011	0,79	0,0002	0,012	<0,00009	0,0009	0,00008	<0,00006
2	Stérile	Amphibolite	0,00058	1,7	0,0003	0,009	<0,00009	0,0051	0,00037	<0,00006
3	Stérile	Amphibolite	0,00014	1,05	0,0001	0,008	<0,00009	0,0009	0,00012	<0,00006
4	Stérile	Amphibolite	0,00025	1,19	0,0002	0,017	0,00021	0,0017	<0,00004	0,00007
5	Stérile	Amphibolite	0,00013	0,91	0,0003	0,013	<0,00009	0,0334	0,00014	<0,00006
6	Stérile	Amphibolite	0,0002	0,77	<0,0001	0,012	<0,00009	0,0009	0,0001	<0,00006
7	Stérile	Amphibolite	<0,00049	1,48	0,0002	0,008	<0,00009	0,0038	0,00034	<0,00006
8	Stérile	Amphibolite	0,00014	1,5	0,0003	0,011	<0,00009	0,0009	0,00014	<0,00006
9	Stérile	Amphibolite	0,0001	1,12	0,0003	0,014	<0,00009	0,0009	0,00007	<0,00006
10	Stérile	Amphibolite	0,00031	1,07	0,0002	0,021	<0,00009	0,0056	0,00027	<0,00006
11	Stérile	Amphibolite	0,00012	0,91	0,0001	0,006	<0,00009	0,0099	0,00011	<0,00006
12	Stérile	Amphibolite	0,00027	1,14	0,0005	0,01	<0,00009	0,0012	0,00016	<0,00006
13	Stérile	Amphibolite	0,00017	2,04	0,0001	0,008	<0,00009	0,0062	0,00005	<0,00006
14	Stérile	Amphibolite	<0,00044	2,63	0,0001	0,006	<0,00009	0,0052	0,00008	<0,00006
15	Stérile	Amphibolite	0,00016	1,22	<0,0001	0,005	<0,00009	0,0015	0,00019	<0,00006
16	Stérile	Métasédiment	0,00079	1,55	0,0004	0,009	0,00074	0,0039	0,00028	<0,00006
17	Stérile	Amphibolite	0,00037	1,16	0,0005	0,006	<0,00009	0,0172	0,00005	<0,00006
18	Stérile	Amphibolite	0,00072	1,29	0,0002	0,006	<0,00009	0,0087	0,00031	<0,00006
19	Stérile	Pegmatite stérile	0,00019	1,41	0,0004	0,008	<0,00009	0,0009	0,0001	<0,00006
20	Stérile	Amphibolite	0,00029	0,96	0,0046	0,004	<0,00009	0,0009	0,00018	<0,00006
21	Stérile	Amphibolite	0,00017	0,84	<0,0001	0,009	<0,00009	0,0009	0,00009	<0,00006
22	Stérile	Amphibolite	<0,00048	1,87	0,0002	0,02	<0,00009	0,0083	0,00005	<0,00006
23	Stérile	Métasédiment	0,00134	1,62	0,0036	0,003	<0,00009	0,0036	0,00024	<0,00006
24	Stérile	Amphibolite	0,00031	1,5	0,0002	0,024	<0,00009	0,0009	<0,00004	<0,00006
25	Stérile	Métasédiment	0,00054	0,54	0,0002	0,011	<0,00009	0,0016	<0,00004	<0,00006
26	Stérile	Amphibolite	<0,00045	1	0,0002	0,007	<0,00009	0,0014	0,00006	<0,00006
27	Stérile	Amphibolite	<0,00042	2,6	0,0002	0,012	<0,00009	0,0036	0,00059	<0,00006
28	Stérile	Amphibolite	0,001	1,2	0,001	0,019	<0,0009	0,033	0,0015	<0,00006
29	Stérile	Amphibolite	0,0007	1,7	0,001	0,015	<0,0009	0,072	0,0012	<0,00006
30	Stérile	Amphibolite	<0,0004	1,3	0,001	0,01	<0,0009	0,009	0,0008	<0,00006
31	Stérile	Métasédiment	0,00037	1,25	0,0002	0,032	<0,00009	0,0061	<0,00004	<0,00006
32	Stérile	Amphibolite	0,00038	1,17	0,0001	0,009	<0,00009	0,0009	<0,00004	<0,00006
33	Stérile	Amphibolite	<0,00043	1,21	0,0001	0,009	<0,00009	0,0017	0,00006	<0,00006
34	Stérile	Métasédiment	0,00029	1,13	0,0003	0,019	<0,00009	0,0102	0,00006	<0,00006
35	Stérile	Métasédiment	0,00023	0,83	0,0001	0,022	<0,00009	0,0011	0,00007	<0,00006
36	Stérile	Ultramafique	0,00032	0,81	0,0003	0,008	<0,00009	0,144	0,00006	<0,00006
37	Stérile	Amphibolite	0,0031	0,73	0,0004	0,023	<0,00009	0,156	0,00029	<0,00006
38	Stérile	Métasédiment	0,00072	2,2	<0,0001	0,012	<0,00009	0,0026	0,00006	0,00007
39	Stérile	Métasédiment	0,00093	1,55	0,0002	0,008	0,0001	0,0223	0,00023	<0,00006
40	Stérile	Métasédiment	0,00062	2,16	0,0001	0,006	<0,00009	0,0165	0,00005	<0,00006
41	Stérile	Métasédiment	0,00068	2,1	0,0002	0,007	<0,00009	0,0009	0,00005	<0,00006
42	Stérile	Métasédiment	0,00085	1,73	0,0002	0,006	<0,00009	0,001	0,00008	<0,00006
43	Stérile	Métasédiment	0,0009	2,07	0,0002	0,007	<0,00009	0,0009	0,00006	<0,00006
44	Stérile	Métasédiment	0,00035	1,75	0,0002	0,024	<0,00009	0,0009	<0,00004	<0,00006
45	Stérile	Métasédiment	0,00034	1,51	0,0002	0,03	<0,00009	0,0009	<0,00004	<0,00006
46	Stérile	Métasédiment	0,00022	1,41	<0,0001	0,021	<0,00009	0,0009	<0,00004	<0,00006
47	Stérile	Métasédiment	0,00056	1,42	0,0002	0,012	0,00013	0,0009	0,00036	<0,00006
48	Stérile	Métasédiment	0,0007	1,8	0,001	0,003	<0,0009	<0,009	0,0004	<0,00006
49	Stérile	Métasédiment	0,00027	0,89	0,0002	0,013	<0,00009	0,0054	0,00004	<0,00006
50	Stérile	Métasédiment	0,00169	1,56	0,0004	0,006	<0,00009	0,0733	0,00133	<0,00006
51	Stérile	Métasédiment	0,00086	2,2	0,0002	0,012	<0,00009	0,003	0,00021	<0,00006
52	Stérile	Métasédiment	0,0006	1,18	0,0002	0,012	<0,00009	0,0011	<0,00004	<0,00006
53	Stérile	Métasédiment	0,00034	0,94	<0,0001	0,016	<0,00009	0,0009	<0,00004	<0,00006
54	Stérile	Métasédiment	0,0005	1,3	0,001	0,025	<0,0009	0,021	0,0004	<0,00006
55	Stérile	Métasédiment	0,00028	0,52	0,0003	0,007	<0,00009	0,0011	0,00005	<0,00006
56	Stérile	Amphibolite	0,00019	0,83	0,0002	0,005	<0,00009	0,0009	0,00011	<0,00006
57	Stérile	Métasédiment	0,00031	0,98	0,0002	0,009	<0,00009	0,0009	0,00008	<0,00006
58	Stérile	Ultramafique	0,00017	0,81	0,0004	0,012	<0,00009	0,0818	0,00007	<0,00006
59	Stérile	Ultramafique	0,00019	0,79	0,0003	0,009	<0,00009	0,0043	0,0002	<0,00006
60	Stérile	Ultramafique	0,00034	0,31	0,0006	0,007	<0,00009	0,124	0,00004	<0,00006
61	Stérile	Ultramafique	0,00028	0,49	0,0002	0,005	<0,00009	0,01	0,00004	<0,00006
62	Stérile	Ultramafique	0,00061	0,18	0,0009	0,01	<0,00009	0,38	0,0001	<0,00006
63	Stérile	Pegmatite stérile	0,00126	2,3	0,0002	0,045	<0,00009	0,0062	0,00009	<0,00006
64	Stérile	Pegmatite stérile	<0,00042	1,01	0,0002	0,092	<0,00009	0,006	0,00004	0,00013
65	Stérile	Pegmatite stérile	0,00078	0,91	0,0002	0,08	<0,00009	0,0051	0,00004	<0,00006
66	Stérile	Pegmatite stérile	0,00056	1,44	0,0003	0,063	<0,00009	0,0042	0,00004	0,0001
67	Stérile	Pegmatite stérile	0,00055	1,23	0,0004	0,07	<0,00009	0,0018	0,00004	<0,00006
68	Stérile	Pegmatite stérile	<0,0004	0,8	<0,001	0,077	<0,0009	0,012	0,0004	0,00008
69	Stérile	Pegmatite stérile	0,00073	2,82	0,0003	0,061	<0,00009	0,0039	0,00006	0,00011
70	Stérile	Pegmatite stérile	0,00088	2,26	0,0003	0,052	<0,00009	0,0057	0,00077	0,00011

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
1	Stérile	Amphibolite	0,0123	0,00196	<0,000005	<0,000002	0,00619	<0,002
2	Stérile	Amphibolite	0,0172	0,00197	<0,000005	0,000008	0,00405	<0,002
3	Stérile	Amphibolite	0,00823	<0,0005	<0,000005	0,000006	0,00787	<0,002
4	Stérile	Amphibolite	0,00474	0,00202	<0,000005	0,000029	0,00423	<0,002
5	Stérile	Amphibolite	0,0129	0,00064	0,00003	0,000003	0,00406	<0,002
6	Stérile	Amphibolite	0,00825	0,00007	<0,000005	0,000039	0,0057	<0,002
7	Stérile	Amphibolite	0,0124	0,00026	<0,000005	0,00003	0,00662	<0,002
8	Stérile	Amphibolite	0,00734	0,00306	<0,000005	<0,00002	0,00507	<0,002
9	Stérile	Amphibolite	0,00405	0,00209	<0,000005	<0,000002	0,00578	<0,002
10	Stérile	Amphibolite	0,00734	0,00217	<0,000005	0,000013	0,00483	<0,002
11	Stérile	Amphibolite	0,00882	0,00031	<0,000005	0,000002	0,00515	<0,002
12	Stérile	Amphibolite	0,0105	0,00084	<0,000005	0,000023	0,00623	<0,002
13	Stérile	Amphibolite	0,0296	0,00069	0,000009	0,000005	0,00867	<0,002
14	Stérile	Amphibolite	0,00868	0,0004	<0,000005	0,000004	0,00968	<0,002
15	Stérile	Amphibolite	0,00909	0,00019	<0,000005	0,000031	0,00599	<0,002
16	Stérile	Métasédiment	0,0149	0,00095	<0,000005	0,000011	0,00061	<0,002
17	Stérile	Amphibolite	0,0146	0,00089	<0,000005	0,000004	0,00072	<0,002
18	Stérile	Amphibolite	0,0112	0,00106	<0,000005	0,000025	0,00688	<0,002
19	Stérile	Pegmatite stérile	0,0097	0,00166	<0,000005	0,000004	0,00596	<0,002
20	Stérile	Amphibolite	0,02	<0,00005	<0,000005	0,000003	0,00002	<0,002
21	Stérile	Amphibolite	0,0133	0,00028	<0,000005	0,00001	0,0049	<0,002
22	Stérile	Amphibolite	0,015	0,00056	<0,000005	0,000008	0,00592	<0,002
23	Stérile	Métasédiment	0,0213	0,00008	<0,000005	0,00002	0,00005	<0,002
24	Stérile	Amphibolite	0,0133	0,00241	<0,000005	0,000057	0,0038	<0,002
25	Stérile	Métasédiment	0,0125	0,00138	0,000007	0,000015	0,00338	<0,002
26	Stérile	Amphibolite	0,00609	0,00051	<0,000005	0,000002	0,00482	<0,002
27	Stérile	Amphibolite	0,017	0,00061	<0,000005	0,000041	0,00975	<0,002
28	Stérile	Amphibolite	0,0135	0,0012	<0,00005	0,00004	0,00483	<0,02
29	Stérile	Amphibolite	0,0363	0,0006	<0,00005	<0,00002	0,00422	<0,02
30	Stérile	Amphibolite	0,0111	0,0005	<0,00005	<0,00002	0,00588	<0,02
31	Stérile	Métasédiment	0,0167	0,00442	0,000127	0,000073	0,00541	<0,002
32	Stérile	Amphibolite	0,00682	0,00042	<0,000005	0,000011	0,00717	<0,002
33	Stérile	Amphibolite	0,00754	0,00027	<0,000005	0,000008	0,00733	<0,002
34	Stérile	Métasédiment	0,00769	0,0029	0,000192	0,000052	0,00305	<0,002
35	Stérile	Métasédiment	0,00693	0,00287	0,000005	0,000032	0,00357	<0,002
36	Stérile	Ultramafique	0,0142	0,00009	0,000033	0,000002	0,00506	<0,002
37	Stérile	Amphibolite	0,0115	0,00034	0,000195	0,000088	0,00367	<0,002
38	Stérile	Métasédiment	0,00734	0,00238	0,000039	0,000018	0,00125	<0,002
39	Stérile	Métasédiment	0,0131	0,00091	0,000021	0,000003	0,00294	<0,002
40	Stérile	Métasédiment	0,012	0,00128	<0,000005	0,000049	0,0028	<0,002
41	Stérile	Métasédiment	0,014	0,00083	<0,000005	<0,000002	0,00229	<0,002
42	Stérile	Métasédiment	0,0184	0,0008	<0,000005	<0,000002	0,00085	<0,002
43	Stérile	Métasédiment	0,0207	0,00071	<0,000005	<0,000002	0,00147	<0,002
44	Stérile	Métasédiment	0,0102	0,00163	<0,000005	0,000237	0,00485	<0,002
45	Stérile	Métasédiment	0,0116	0,00278	<0,000005	0,000273	0,00502	<0,002
46	Stérile	Métasédiment	0,012	0,00228	<0,000005	0,000282	0,00505	<0,002
47	Stérile	Métasédiment	0,00622	0,00402	<0,000005	0,000044	0,00192	<0,002
48	Stérile	Métasédiment	0,0204	<0,0005	<0,00005	<0,00002	0,00996	<0,02
49	Stérile	Métasédiment	0,0108	0,00317	0,000375	0,000012	0,00372	<0,002
50	Stérile	Métasédiment	0,0074	0,00098	0,000042	0,000066	0,00188	<0,002
51	Stérile	Métasédiment	0,00954	0,001	<0,000005	0,000003	0,00288	<0,002
52	Stérile	Métasédiment	0,0102	0,00112	<0,000005	0,000053	0,00279	<0,002
53	Stérile	Métasédiment	0,00856	0,00178	<0,000005	0,000036	0,00337	<0,002
54	Stérile	Métasédiment	0,00691	<0,0005	<0,00005	0,00005	0,00276	<0,02
55	Stérile	Métasédiment	0,00521	0,0002	<0,000005	0,000002	0,00385	<0,002
56	Stérile	Amphibolite	0,0103	0,0002	<0,000005	0,000017	0,00611	<0,002
57	Stérile	Métasédiment	0,0151	0,0007	0,000012	<0,000002	0,00472	<0,002
58	Stérile	Ultramafique	0,0188	<0,00005	0,000017	<0,000002	0,00432	<0,002
59	Stérile	Ultramafique	0,0303	0,00027	0,000005	<0,000002	0,00716	<0,002
60	Stérile	Ultramafique	0,0112	<0,00005	0,000201	<0,000002	0,0027	<0,002
61	Stérile	Ultramafique	0,0215	<0,00005	<0,000005	<0,000002	0,0034	<0,002
62	Stérile	Ultramafique	0,00811	<0,00005	0,000011	0,000012	0,00411	<0,002
63	Stérile	Pegmatite stérile	0,00526	<0,00005	0,000136	0,00343	0,00047	<0,002
64	Stérile	Pegmatite stérile	0,00378	0,00016	0,000375	0,000937	0,0001	<0,002
65	Stérile	Pegmatite stérile	0,0048	0,00007	0,000245	0,000428	0,00011	<0,002
66	Stérile	Pegmatite stérile	0,00281	0,00008	0,000216	0,000443	0,00016	<0,002
67	Stérile	Pegmatite stérile	0,00231	0,00006	0,000277	0,000073	0,00011	<0,002
68	Stérile	Pegmatite stérile	0,00574	0,0005	0,00018	0,0011	0,00011	<0,02
69	Stérile	Pegmatite stérile	0,00926	0,00007	0,000057	0,002184	0,00031	<0,002
70	Stérile	Pegmatite stérile	0,0103	0,00006	0,00007	0,001253	0,00077	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
71	Stérile	Pegmatite stérile	---	7,07	21	6	<2,0	<20,0	<0,00001	<0,0005
72	Stérile	Pegmatite stérile	---	8,15	39	17	<2,0	<20,0	<0,00001	<0,0005
73	Stérile	Pegmatite stérile	8,41	6,87	22	6	<2,0	<20,0	<0,00001	<0,00005
74	Minerai	Pegmatite spodumène	8,01	7,04	20	5	<2,0	<20,0	<0,00001	<0,00005
75	Minerai	Pegmatite spodumène	8,94	7,81	32	13	<2,0	<20,0	<0,00001	<0,00005
76	Minerai	Pegmatite spodumène	9,15	7,78	48	21	<2,0	<20,0	<0,00001	<0,00005
77	Minerai	Pegmatite spodumène	8,12	7,37	27	10	<2,0	<20,0	<0,00001	<0,00005
78	Minerai	Pegmatite spodumène	---	8,39	42	17	<2,0	<21,0	<0,00001	<0,0005
79	Minerai	Pegmatite spodumène	7,82	7,08	26	8	<2,0	<20,0	<0,00001	<0,00005
80	Stérile	Pegmatite stérile	8,43	7,35	36	13	<2,0	<20,0	<0,00001	<0,00005
81	Minerai	Pegmatite spodumène	7,78	7,27	25	8	<2,0	<20,0	<0,00001	<0,0005
82	Minerai	Pegmatite spodumène	9,21	8,05	49	23	<2,0	<20,0	<0,00001	<0,00005
83	Résidu	Résidu DMS	8,17	6,46	21	4	<2,0	<20,0	0,00002	<0,0005
84	Résidu	Résidu DMS	7,88	6,75	16	4	<2,0	<20,0	<0,00001	<0,0005
VIS-CV5-AMP-085	Stérile	Amphibolite		8,61	63,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-086	Stérile	Amphibolite		8,25	62,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-087	Stérile	Amphibolite		8,57	61,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-088	Stérile	Amphibolite		8,17	59,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-089	Stérile	Amphibolite		8,25	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-090	Stérile	Amphibolite		8,33	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-091	Stérile	Amphibolite		8,19	61,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-092	Stérile	Amphibolite		8,03	42,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-093	Stérile	Amphibolite		8,42	71,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-094	Stérile	Amphibolite		8,00	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-095	Stérile	Amphibolite		8,20	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-096	Stérile	Amphibolite		8,01	57,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-097	Stérile	Amphibolite		8,04	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-098	Stérile	Amphibolite		7,97	67,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-099	Stérile	Amphibolite		8,09	60,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-100	Stérile	Amphibolite		9,07	90,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-101	Stérile	Amphibolite		7,96	86,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-102	Stérile	Amphibolite		9,00	61,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-103	Stérile	Amphibolite		8,17	70,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-104	Stérile	Amphibolite		9,09	58,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-105	Stérile	Amphibolite		6,04	141,0	3,0	<14,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-106	Stérile	Amphibolite		9,07	59,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-107	Stérile	Amphibolite		8,99	62,0	39,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-108	Stérile	Amphibolite		8,67	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-109	Stérile	Amphibolite		8,70	65,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-110	Stérile	Amphibolite		8,93	58,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-111	Stérile	Amphibolite		9,36	63,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-112	Stérile	Amphibolite		9,32	62,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-113	Stérile	Amphibolite		8,90	59,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-114	Stérile	Amphibolite		9,25	59,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-115	Stérile	Amphibolite		8,88	76,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-116	Stérile	Amphibolite		9,32	57,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-117	Stérile	Amphibolite		9,21	62,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-118	Stérile	Amphibolite		9,45	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-119	Stérile	Amphibolite		8,72	49,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-120	Stérile	Amphibolite		9,26	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-121	Stérile	Amphibolite		9,24	58,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-122	Stérile	Amphibolite		8,77	56,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-123	Stérile	Amphibolite		9,33	60,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-124	Stérile	Amphibolite		9,09	56,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-125	Stérile	Amphibolite		8,92	61,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-126	Stérile	Amphibolite		9,21	61,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-127	Stérile	Amphibolite		9,15	54,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-128	Stérile	Amphibolite		8,84	53,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-129	Stérile	Amphibolite		9,26	59,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-130	Stérile	Amphibolite		9,11	55,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-131	Stérile	Amphibolite		9,07	55,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-132	Stérile	Amphibolite		9,19	61,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-133	Stérile	Amphibolite		8,25	66,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-134	Stérile	Amphibolite		7,84	69,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-135	Stérile	Amphibolite		7,88	67,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-136	Stérile	Amphibolite		7,86	48,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-137	Stérile	Amphibolite		7,84	57,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-138	Stérile	Amphibolite		7,82	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-139	Stérile	Amphibolite		7,94	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-140	Stérile	Amphibolite		8,53	69,0	26,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
71	Stérile	Pegmatite stérile	0,16	0,091	<0,02	0,0008	0,00007	<0,0001	1,8	0,00003
72	Stérile	Pegmatite stérile	0,89	0,016	0,05	0,0008	0,00017	<0,0001	6,6	< 0.00003
73	Stérile	Pegmatite stérile	0,218	0,0225	0,007	0,00038	0,000038	0,00006	2	<0,000003
74	Minerai	Pegmatite spodumène	0,131	0,128	0,009	0,00015	0,000032	0,00001	1,3	<0,000003
75	Minerai	Pegmatite spodumène	0,716	0,0626	0,009	0,00016	0,000238	0,00619	5,48	<0,000003
76	Minerai	Pegmatite spodumène	0,803	0,0139	0,011	0,00039	0,000122	0,00057	6,01	<0,000003
77	Minerai	Pegmatite spodumène	0,505	0,0219	0,009	0,00028	0,00018	0,00018	3,34	<0,000003
78	Minerai	Pegmatite spodumène	0,54	0,033	<0,02	0,0008	0,00013	<0,001	5,8	0,00007
79	Minerai	Pegmatite spodumène	0,419	0,0199	0,004	0,00025	0,000095	0,00021	2,86	<0,000003
80	Stérile	Pegmatite stérile	0,559	0,0532	0,014	0,00033	0,000175	0,00079	4,32	<0,000003
81	Minerai	Pegmatite spodumène	0,19	0,069	<0,02	0,0008	0,00007	0,0001	2,3	< 0.00003
82	Minerai	Pegmatite spodumène	1,23	0,0115	0,01	0,00024	0,000127	0,00015	5,23	<0,000003
83	Résidu	Résidu DMS	0,12	0,016	<0,02	0,00028	0,00007	0,00005	1,6	< 0.00003
84	Résidu	Résidu DMS	0,27	0,012	<0,02	0,00085	0,00008	0,00037	1,2	< 0.00003
VIS-CV5-AMP-085	Stérile	Amphibolite	0,6520	0,0016	0,0270	0,0008	<0,000007	<0,00001	7,0100	0,000004
VIS-CV5-AMP-086	Stérile	Amphibolite	0,6450	0,0028	0,0240	0,0011	<0,000007	<0,00001	6,8400	<0,000003
VIS-CV5-AMP-087	Stérile	Amphibolite	0,5920	0,0021	0,0250	0,0006	<0,000007	<0,00001	7,0100	0,000007
VIS-CV5-AMP-088	Stérile	Amphibolite	0,4710	0,0020	0,0300	0,0008	<0,000007	<0,00001	7,3800	0,000005
VIS-CV5-AMP-089	Stérile	Amphibolite	0,5760	0,0016	0,0270	0,0044	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-AMP-090	Stérile	Amphibolite	0,3780	0,0263	0,0330	0,0008	<0,000007	<0,00001	6,7800	<0,000003
VIS-CV5-AMP-091	Stérile	Amphibolite	0,4550	0,0016	0,0290	0,0011	<0,000007	<0,00001	6,5600	<0,000003
VIS-CV5-AMP-092	Stérile	Amphibolite	0,1660	0,0343	0,0280	0,0004	<0,000007	<0,00001	2,8800	<0,000003
VIS-CV5-AMP-093	Stérile	Amphibolite	0,4610	0,0408	0,0280	0,0016	<0,000007	<0,00001	6,8600	<0,000003
VIS-CV5-AMP-094	Stérile	Amphibolite	0,3590	0,0071	0,0290	0,0013	<0,000007	<0,00001	5,4600	<0,000003
VIS-CV5-AMP-095	Stérile	Amphibolite	0,5720	0,0132	0,0250	0,0006	<0,000007	<0,00001	6,4600	<0,000003
VIS-CV5-AMP-096	Stérile	Amphibolite	0,5290	0,0130	0,0250	0,0007	<0,000007	<0,00001	6,7600	<0,000003
VIS-CV5-AMP-097	Stérile	Amphibolite	0,3500	0,0694	0,0280	0,0009	<0,000007	<0,00001	6,4400	<0,000003
VIS-CV5-AMP-098	Stérile	Amphibolite	0,4010	0,0305	0,0310	0,0008	<0,000007	<0,00001	6,6200	<0,000003
VIS-CV5-AMP-099	Stérile	Amphibolite	0,5420	0,0033	0,0280	0,0015	0,000007	<0,00001	6,0100	<0,000003
VIS-CV5-AMP-100	Stérile	Amphibolite	0,2530	0,2270	0,0350	0,0010	0,000014	<0,0001	8,9800	<0,000003
VIS-CV5-AMP-101	Stérile	Amphibolite	0,3110	0,0376	0,0290	0,0015	<0,000007	<0,00001	8,9000	<0,000003
VIS-CV5-AMP-102	Stérile	Amphibolite	0,4840	0,0207	0,0320	0,0019	<0,000007	<0,00001	5,8500	<0,000003
VIS-CV5-AMP-103	Stérile	Amphibolite	0,4060	0,0139	0,0270	0,0017	0,000015	<0,00001	7,5800	0,000004
VIS-CV5-AMP-104	Stérile	Amphibolite	0,5000	0,0406	0,0260	0,0017	0,000022	<0,00001	6,4700	<0,000003
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0010	0,0002	0,0460	0,0086	0,000023	<0,00001	14,1000	0,000025
VIS-CV5-AMP-106	Stérile	Amphibolite	0,3690	0,0442	0,0250	0,0007	<0,000007	<0,00001	6,5800	<0,000003
VIS-CV5-AMP-107	Stérile	Amphibolite	0,3110	0,0138	0,0280	0,0006	<0,000007	<0,00001	7,3100	0,000006
VIS-CV5-AMP-108	Stérile	Amphibolite	0,3730	0,0038	0,0240	0,0006	<0,000007	<0,00001	7,3400	<0,000003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,3360	0,0082	0,0230	0,0007	<0,000007	<0,00001	8,1800	<0,000003
VIS-CV5-AMP-110	Stérile	Amphibolite	0,4880	0,0507	0,0260	0,0013	<0,000007	<0,00001	6,0900	<0,000003
VIS-CV5-AMP-111	Stérile	Amphibolite	0,4220	0,0354	0,0360	0,0007	<0,000007	<0,00001	6,1800	<0,000003
VIS-CV5-AMP-112	Stérile	Amphibolite	0,4970	0,0294	0,0330	0,0006	0,000012	<0,00001	6,4500	<0,000003
VIS-CV5-AMP-113	Stérile	Amphibolite	0,4870	0,1450	0,0400	0,0006	0,000018	<0,00001	5,8500	<0,000003
VIS-CV5-AMP-114	Stérile	Amphibolite	0,4230	0,0654	0,0360	0,0007	<0,000007	<0,00001	6,0600	<0,000003
VIS-CV5-AMP-115	Stérile	Amphibolite	0,3590	0,0543	0,0300	0,0014	<0,000007	<0,00001	8,8700	0,000004
VIS-CV5-AMP-116	Stérile	Amphibolite	0,4410	0,0248	0,0320	0,0005	<0,000007	<0,00001	5,8600	<0,000003
VIS-CV5-AMP-117	Stérile	Amphibolite	0,2250	0,1800	0,0280	0,0006	<0,000007	<0,00001	6,0900	<0,000003
VIS-CV5-AMP-118	Stérile	Amphibolite	0,4100	0,0146	0,0290	0,0007	<0,000007	<0,00001	6,1100	<0,000003
VIS-CV5-AMP-119	Stérile	Amphibolite	0,4960	0,0071	0,0270	0,0018	<0,000007	<0,00001	5,7700	<0,000003
VIS-CV5-AMP-120	Stérile	Amphibolite	0,5790	0,0445	0,0280	0,0006	<0,000007	<0,00001	7,0200	<0,000003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,5970	0,0019	0,0220	0,0003	<0,000007	<0,00001	6,5300	<0,000003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,7300	0,0073	0,0270	0,0017	0,000026	<0,00001	5,8400	<0,000003
VIS-CV5-AMP-123	Stérile	Amphibolite	0,3810	0,0123	0,0300	0,0005	<0,000007	<0,00001	5,8300	<0,000003
VIS-CV5-AMP-124	Stérile	Amphibolite	0,6610	0,0118	0,0260	0,0007	<0,000007	<0,00001	6,3100	<0,000003
VIS-CV5-AMP-125	Stérile	Amphibolite	0,6590	0,0222	0,0300	0,0013	0,000016	<0,00001	6,5000	<0,000003
VIS-CV5-AMP-126	Stérile	Amphibolite	0,7670	0,0399	0,0340	0,0010	0,000028	<0,00001	5,8100	<0,000003
VIS-CV5-AMP-127	Stérile	Amphibolite	0,6000	0,0188	0,0280	0,0004	<0,000007	<0,00001	6,2700	<0,000003
VIS-CV5-AMP-128	Stérile	Amphibolite	0,5730	0,0041	0,0230	0,0004	<0,000007	<0,00001	6,6600	<0,000003
VIS-CV5-AMP-129	Stérile	Amphibolite	0,5780	0,0793	0,0240	0,0005	<0,000007	<0,00001	6,6500	<0,000003
VIS-CV5-AMP-130	Stérile	Amphibolite	0,6820	0,0175	0,0260	0,0004	<0,000007	<0,00001	6,7800	<0,000003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,5910	0,0186	0,0230	0,0006	<0,000007	<0,00001	7,1400	<0,000003
VIS-CV5-AMP-132	Stérile	Amphibolite	0,5340	0,0039	0,0350	0,0006	<0,000007	<0,00001	6,3800	<0,000003
VIS-CV5-AMP-133	Stérile	Amphibolite	0,4670	0,0087	0,0370	0,0009	<0,000007	<0,00001	7,6600	<0,000003
VIS-CV5-AMP-134	Stérile	Amphibolite	0,3610	0,0527	0,0480	0,0006	<0,000007	<0,00001	7,7900	<0,000003
VIS-CV5-AMP-135	Stérile	Amphibolite	0,3640	0,2150	0,0470	0,0012	<0,000007	<0,00001	6,8000	<0,000003
VIS-CV5-AMP-136	Stérile	Amphibolite	0,5530	0,0137	0,0020	0,0003	<0,000007	<0,00001	7,9100	<0,000003
VIS-CV5-AMP-137	Stérile	Amphibolite	0,5060	0,0299	0,0270	0,0008	<0,000007	<0,00001	6,1800	<0,000003
VIS-CV5-AMP-138	Stérile	Amphibolite	0,3830	0,0169	0,0190	0,0007	<0,000007	<0,00001	6,2500	<0,000003
VIS-CV5-AMP-139	Stérile	Amphibolite	0,8510	0,0180	0,0220	0,0019	<0,000007	<0,00001	6,7200	<0,000003
VIS-CV5-AMP-140	Stérile	Amphibolite	0,3500	0,0049	0,0180	0,0006	<0,000007	<0,00001	7,7000	<0,000003

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
71	Stérile	Pegmatite stérile	0,00004	<0,0008	<0,002	<0,07	1,26	0,024	0,13	0,0072
72	Stérile	Pegmatite stérile	0,00004	<0,0008	<0,002	<0,07	1,21	0,018	0,14	0,0016
73	Stérile	Pegmatite stérile	0,000022	<0,00008	<0,0002	<0,007	2,69	0,063	0,022	0,0198
74	Minerai	Pegmatite spodumène	0,000008	<0,00008	<0,0002	<0,007	2,4	0,169	0,031	0,04757
75	Minerai	Pegmatite spodumène	0,000006	<0,00008	<0,0002	<0,007	1,18	0,141	0,072	0,02445
76	Minerai	Pegmatite spodumène	0,000026	<0,0003	<0,0002	0,012	3,12	0,159	0,278	0,00259
77	Minerai	Pegmatite spodumène	0,000007	<0,00008	<0,0002	<0,007	1,81	0,366	0,098	0,06045
78	Minerai	Pegmatite spodumène	0,00004	<0,0008	<0,002	<0,07	1,9	0,131	0,28	0,005
79	Minerai	Pegmatite spodumène	0,00004	<0,00008	<0,0002	0,008	3,51	0,0598	0,103	0,01085
80	Stérile	Pegmatite stérile	0,000073	<0,00008	0,0004	0,017	3,48	0,0493	0,302	0,00948
81	Minerai	Pegmatite spodumène	0,00004	<0,0008	<0,002	<0,07	1,58	0,223	0,05	0,0248
82	Minerai	Pegmatite spodumène	0,000031	<0,00008	0,0003	0,01	5,5	0,103	0,1	0,00281
83	Résidu	Résidu DMS	0,00012	<0,0008	<0,002	<0,07	2,32	0,023	0,06	0,029
84	Résidu	Résidu DMS	0,00006	<0,0008	<0,002	<0,07	1,92	0,018	0,08	0,0105
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0001	0,00052	<0,001	0,132	0,3090	0,0031	0,7990	0,0029
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0001	0,00030	<0,001	0,123	0,8090	0,0074	0,7680	0,0018
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,028	0,1910	0,0146	0,6140	0,0006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0001	0,00056	<0,001	0,154	0,1970	0,0065	0,6530	0,0034
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0000	0,00019	<0,001	0,140	2,4600	0,0069	0,6240	0,0013
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0001	0,00034	<0,001	0,047	0,4530	0,0246	0,7720	0,0014
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,042	0,5440	0,0110	0,5450	0,0011
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0001	0,00104	<0,001	0,104	0,2580	0,0046	1,1300	0,0015
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0001	0,00028	<0,001	0,079	1,5100	0,0562	0,7710	0,0028
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0000	0,00030	<0,001	0,042	0,9630	0,0632	0,6550	0,0013
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0001	0,00062	<0,001	0,078	0,2140	0,0184	0,5400	0,0026
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0000	0,00057	<0,001	0,054	0,2020	0,0182	0,5270	0,0017
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0000	0,00015	<0,001	0,025	0,7780	0,0377	0,5920	0,0009
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0001	0,00050	<0,001	0,140	0,5520	0,0224	0,7800	0,0033
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0001	0,00093	<0,001	0,094	1,1000	0,0445	0,5440	0,0034
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0001	0,00051	<0,001	0,068	2,1900	0,1610	1,3500	0,0030
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,016	1,4200	0,0662	0,9340	0,0006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0001	0,00026	<0,001	0,112	2,7800	0,1020	0,5490	0,0024
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0001	0,00046	<0,001	0,097	0,9020	0,0440	0,7580	0,0021
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0001	<0,00038	<0,001	0,136	0,7890	0,0476	0,6190	0,0030
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0333	<0,00008	<0,001	2,300	0,4520	0,0556	3,4500	0,3130
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,009	0,1630	0,0194	0,5570	0,0006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0000	0,00256	<0,001	<0,007	0,2480	0,0262	0,4630	0,0002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,1310	0,0271	0,5260	0,0003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0000	0,00011	<0,001	0,017	0,1550	0,0313	0,5010	0,0007
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0001	0,00071	<0,001	0,189	0,5340	0,0174	0,7610	0,0043
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0000	0,00034	<0,001	0,058	0,6080	0,0256	0,7890	0,0015
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0001	0,00037	<0,001	0,073	0,5660	0,0373	0,4900	0,0017
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,031	0,6300	0,0508	0,5350	0,0011
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,016	0,5780	0,0189	0,6710	0,0006
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,010	0,4130	0,0203	0,9930	0,0006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0000	0,00040	<0,001	0,046	0,6070	0,0403	0,7300	0,0012
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0002	0,00125	<0,001	0,112	0,4380	0,0282	1,0100	0,0024
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0001	0,00171	<0,001	0,155	0,2830	0,0360	0,9960	0,0036
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0001	<0,00008	<0,001	0,270	0,7500	0,0432	0,4910	0,0035
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,5070	0,0260	0,6350	0,0003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0000	0,00012	<0,001	0,010	0,1250	0,0269	0,5420	0,0003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0001	0,00070	<0,001	0,213	1,5600	0,0414	0,7740	0,0039
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0000	0,00026	<0,001	0,044	0,3910	0,0342	0,6250	0,0010
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0001	0,00073	<0,001	0,131	0,4710	0,0150	0,8630	0,0034
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0002	0,00108	<0,001	0,204	0,5570	0,0243	0,7450	0,0055
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0001	0,00063	<0,001	0,215	2,5600	0,1150	0,6200	0,0036
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,014	0,3910	0,0328	0,6340	0,0004
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,012	0,1690	0,0305	0,5040	0,0005
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0000	0,00035	<0,001	0,012	0,3420	0,0277	0,6580	0,0004
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,009	0,1830	0,0280	0,6350	0,0003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,020	0,3450	0,0175	0,5560	0,0006
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,012	0,2890	0,0222	0,5220	0,0004
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0000	0,00015	<0,001	0,068	0,4520	0,0274	0,4230	0,0013
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,066	0,1160	0,0155	0,5810	0,0012
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0003	0,00200	<0,001	0,221	0,4560	0,0263	0,9510	0,0049
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2090	0,0199	0,5100	0,0009
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0002	0,00102	<0,001	0,308	0,4800	0,0436	0,7960	0,0053
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0001	0,00094	<0,001	0,093	0,3000	0,0275	1,0300	0,0019
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0002	0,00085	<0,001	0,305	0,5740	0,0218	0,6200	0,0069
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0000	0,00010	<0,001	0,012	0,0620	0,0165	0,8280	0,0006

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# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
71	Stérile	Pegmatite stérile	0,0006	2	<0,001	0,1	<0,0009	0,013	0,0006	0,00011
72	Stérile	Pegmatite stérile	0,0006	1,4	<0,001	0,025	<0,0009	<0,009	0,0004	0,00017
73	Stérile	Pegmatite stérile	0,00062	0,92	0,0004	0,029	<0,00009	0,006	<0,00004	0,00009
74	Minerai	Pegmatite spodumène	0,00052	0,9	0,0002	0,109	0,00011	0,0241	<0,00004	0,00016
75	Minerai	Pegmatite spodumène	0,0003	1,41	0,0002	0,05	0,00009	0,0125	<0,00004	0,00006
76	Minerai	Pegmatite spodumène	0,0009	1,75	0,0003	0,07	<0,00009	0,0027	0,00005	0,00021
77	Minerai	Pegmatite spodumène	<0,00042	0,93	0,0002	0,203	<0,00009	0,005	<0,00004	0,00018
78	Minerai	Pegmatite spodumène	0,0009	1,6	<0,001	0,091	<0,0009	0,009	0,0011	0,00011
79	Minerai	Pegmatite spodumène	0,00035	0,87	0,0003	0,071	<0,00009	0,0024	<0,00004	0,00012
80	Stérile	Pegmatite stérile	<0,00045	1,57	0,0004	0,069	<0,00009	0,0076	0,0001	0,00018
81	Minerai	Pegmatite spodumène	0,0009	1,7	<0,001	0,068	<0,0009	0,012	<0,0004	0,00009
82	Minerai	Pegmatite spodumène	0,00037	2,72	0,0002	0,039	<0,00009	0,0032	0,00009	0,00027
83	Résidu	Résidu DMS	0,0006	1,5	<0,001	0,044	0,00011	0,009	<0,0004	0,0001
84	Résidu	Résidu DMS	0,0035	1,3	<0,001	0,043	0,00024	0,009	<0,0004	0,00014
VIS-CV5-AMP-085	Stérile	Amphibolite	<0,0004	5,3400	0,0003	0,0030	<0,00009	0,0025	0,00007	<0,00006
VIS-CV5-AMP-086	Stérile	Amphibolite	<0,0004	5,0100	0,0002	0,0060	0,00012	0,0016	0,00013	<0,00006
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0006	4,7600	<0,0001	0,0030	<0,00009	0,0010	0,00009	<0,00006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0005	5,2000	0,0004	0,0060	<0,00009	0,0010	0,00007	<0,00006
VIS-CV5-AMP-089	Stérile	Amphibolite	<0,0004	5,2500	0,0002	0,0110	<0,00009	0,0009	0,00005	<0,00006
VIS-CV5-AMP-090	Stérile	Amphibolite	<0,0004	5,8700	0,0003	0,0030	0,00012	0,0109	0,00024	<0,00006
VIS-CV5-AMP-091	Stérile	Amphibolite	<0,0004	5,4600	<0,0001	0,0050	<0,00009	0,0009	0,00006	<0,00006
VIS-CV5-AMP-092	Stérile	Amphibolite	<0,0004	4,5100	0,0004	0,0050	<0,00009	0,0013	<0,00004	<0,00006
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0005	5,3100	0,0002	0,0060	<0,00009	0,0248	0,00021	<0,00006
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0008	4,8800	0,0002	0,0030	<0,00009	0,0310	0,00012	<0,00006
VIS-CV5-AMP-095	Stérile	Amphibolite	<0,0004	4,9800	0,0004	0,0030	<0,00009	0,0053	0,00006	0,00024
VIS-CV5-AMP-096	Stérile	Amphibolite	<0,0004	4,5600	0,0003	0,0030	<0,00009	0,0060	0,00006	<0,00006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0007	5,4100	<0,0001	0,0060	<0,00009	0,0100	0,00010	<0,00006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0005	5,8500	0,0004	0,0040	<0,00009	0,0105	0,00041	<0,00006
VIS-CV5-AMP-099	Stérile	Amphibolite	<0,0004	4,8800	0,0003	0,0030	<0,00009	0,0046	0,00005	<0,00006
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0014	5,5800	0,0009	0,0100	<0,00009	0,0729	0,00155	0,00029
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0009	5,3100	0,0003	0,0050	<0,00009	0,0187	0,00007	<0,00006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0005	5,2100	0,0004	0,0140	<0,00009	0,0196	<0,00004	<0,00006
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0036	4,7000	0,0003	0,0050	0,00010	0,0122	0,00058	<0,00006
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0005	4,5800	0,0004	0,0060	<0,00009	0,0081	0,00006	<0,00006
VIS-CV5-AMP-105	Stérile	Amphibolite	<0,0004	4,3200	0,0617	0,0030	<0,00009	0,0009	0,00018	<0,00006
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0011	4,9700	0,0003	0,0050	<0,00009	0,0099	0,00016	<0,00006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0011	4,7900	0,0002	0,0030	<0,00009	0,0191	0,00008	<0,00006
VIS-CV5-AMP-108	Stérile	Amphibolite	<0,0004	4,3000	<0,0001	0,0030	<0,00009	0,0066	0,00006	<0,00006
VIS-CV5-AMP-109	Stérile	Amphibolite	<0,0004	4,7800	0,0002	0,0030	<0,00009	0,0047	0,00008	<0,00006
VIS-CV5-AMP-110	Stérile	Amphibolite	<0,0004	5,0500	0,0006	0,0040	<0,00009	0,0102	0,00013	0,00020
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0005	5,6500	0,0002	0,0030	<0,00009	0,0141	0,00022	<0,00006
VIS-CV5-AMP-112	Stérile	Amphibolite	<0,0004	5,8500	0,0002	0,0100	0,00028	0,0062	0,00006	0,00021
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0005	5,6300	0,0002	0,0140	0,00011	0,0208	0,00007	<0,00006
VIS-CV5-AMP-114	Stérile	Amphibolite	<0,0004	5,6200	<0,0001	0,0130	0,00011	0,0158	<0,00004	<0,00006
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,0004	4,8500	<0,0001	0,0160	<0,00009	0,0028	0,00015	<0,00006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0005	5,3700	<0,0001	0,0070	<0,00009	0,0141	0,00008	<0,00006
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0006	6,3700	0,0008	0,0050	<0,00009	0,0229	0,00035	0,00010
VIS-CV5-AMP-118	Stérile	Amphibolite	<0,0004	6,0900	0,0005	0,0090	<0,00009	0,0040	0,00011	0,00020
VIS-CV5-AMP-119	Stérile	Amphibolite	<0,0004	4,3100	<0,0001	0,0120	<0,00009	0,0021	0,00005	<0,00006
VIS-CV5-AMP-120	Stérile	Amphibolite	<0,0004	5,4500	<0,0001	0,0090	<0,00009	0,0414	0,00037	<0,00006
VIS-CV5-AMP-121	Stérile	Amphibolite	<0,0004	4,8400	0,0001	0,0100	<0,00009	0,0009	0,00005	<0,00006
VIS-CV5-AMP-122	Stérile	Amphibolite	<0,0004	4,7600	0,0005	0,0100	<0,00009	0,0164	0,00019	0,00013
VIS-CV5-AMP-123	Stérile	Amphibolite	<0,0004	5,8200	<0,0001	0,0060	<0,00009	0,0054	0,00025	0,00017
VIS-CV5-AMP-124	Stérile	Amphibolite	<0,0004	5,0800	0,0002	0,0130	<0,00009	0,0030	0,00009	<0,00006
VIS-CV5-AMP-125	Stérile	Amphibolite	<0,0004	5,8600	0,0006	0,0060	<0,00009	0,0146	0,00016	<0,00006
VIS-CV5-AMP-126	Stérile	Amphibolite	<0,0004	5,1600	0,0003	0,0050	0,00012	0,0050	0,00009	0,00011
VIS-CV5-AMP-127	Stérile	Amphibolite	<0,0004	5,0400	<0,0001	0,0070	<0,00009	0,0025	0,00006	<0,00006
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0021	4,3400	0,0001	0,0060	<0,00009	0,0020	0,00012	0,00008
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0005	4,8600	0,0002	0,0050	<0,00009	0,0141	0,00020	0,00012
VIS-CV5-AMP-130	Stérile	Amphibolite	<0,0004	4,4800	<0,0001	0,0030	<0,00009	0,0245	0,00006	<0,00006
VIS-CV5-AMP-131	Stérile	Amphibolite	<0,0004	3,9200	<0,0001	0,0030	<0,00009	0,0053	0,00011	<0,00006
VIS-CV5-AMP-132	Stérile	Amphibolite	<0,0004	5,4100	<0,0001	0,0060	0,00013	0,0029	0,00008	<0,00006
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0011	5,1900	<0,0001	0,0030	<0,00009	0,0096	0,00015	0,00068
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0013	5,5300	<0,0001	0,0070	<0,00009	0,0069	0,00019	0,00011
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0014	5,7100	0,0012	0,0050	<0,00009	0,0384	0,00024	0,00104
VIS-CV5-AMP-136	Stérile	Amphibolite	<0,0004	0,7500	<0,0001	0,0030	<0,00009	0,0069	0,00006	0,00010
VIS-CV5-AMP-137	Stérile	Amphibolite	<0,0004	5,0300	0,0006	0,0190	<0,00009	0,0018	0,00007	0,00112
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0005	4,8200	0,0003	0,0060	<0,00009	0,0026	0,00006	0,00024
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0018	4,9200	0,0005	0,0040	<0,00009	0,0140	0,00010	0,00108
VIS-CV5-AMP-140	Stérile	Amphibolite	<0,0004	5,0900	<0,0001	0,0030	<0,00009	0,0028	0,00008	0,00011

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
71	Stérile	Pegmatite stérile	0,00424	<0,0005	0,00011	0,00039	0,00019	<0,02
72	Stérile	Pegmatite stérile	0,00529	<0,0005	0,0001	0,00069	0,00059	<0,02
73	Stérile	Pegmatite stérile	0,00358	0,00021	0,000182	0,000411	0,00006	<0,002
74	Minerai	Pegmatite spodumène	0,00136	0,00018	0,000419	0,000071	0,00003	<0,002
75	Minerai	Pegmatite spodumène	0,00794	0,0001	0,000157	0,00107	0,00007	<0,002
76	Minerai	Pegmatite spodumène	0,01	0,00012	0,000156	0,00034	0,00024	<0,002
77	Minerai	Pegmatite spodumène	0,00568	0,00017	0,000251	0,000099	0,00004	<0,002
78	Minerai	Pegmatite spodumène	0,0102	<0,0005	0,00016	0,00024	0,00029	<0,02
79	Minerai	Pegmatite spodumène	0,00421	0,00019	0,000242	0,000198	0,00004	<0,002
80	Stérile	Pegmatite stérile	0,0056	0,00027	0,00019	0,000171	0,00059	<0,002
81	Minerai	Pegmatite spodumène	0,00362	<0,0005	0,00012	0,0001	0,00014	<0,02
82	Minerai	Pegmatite spodumène	0,00302	0,00032	0,000353	0,007091	0,00093	<0,002
83	Résidu	Résidu DMS	0,00305	<0,0005	0,00053	0,000624	0,00011	<0,02
84	Résidu	Résidu DMS	0,0028	<0,0005	0,00041	0,000336	0,00017	<0,02
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0084	0,0048	<0,000005	0,000068	0,00615	<0,002
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0075	0,0057	<0,000005	0,000012	0,00556	<0,002
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0078	0,0009	<0,000005	0,000008	0,00413	<0,002
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0078	0,0058	<0,000005	0,000012	0,00379	<0,002
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0124	0,0070	<0,000005	0,000010	0,00324	<0,002
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0212	0,0020	<0,000005	0,000009	0,00530	<0,002
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0065	0,0013	<0,000005	0,000074	0,00492	<0,002
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0054	0,0020	<0,000005	0,000012	0,00110	<0,002
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0102	0,0052	0,000021	0,000030	0,00300	<0,002
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0079	0,0019	0,000013	0,000007	0,00319	<0,002
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0071	0,0034	<0,000005	0,000117	0,00491	<0,002
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0072	0,0020	<0,000005	0,000035	0,00416	<0,002
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0119	0,0013	<0,000005	0,000009	0,00518	<0,002
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0099	0,0050	<0,000005	0,000075	0,00520	<0,002
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0093	0,0061	0,000008	0,000025	0,00422	<0,002
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0106	0,0021	0,000085	0,000146	0,00304	<0,002
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0142	0,0011	0,000008	0,000012	0,00214	<0,002
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0099	0,0099	0,000011	0,000016	0,00273	<0,002
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0150	0,0047	0,000007	0,000051	0,01020	<0,002
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0059	0,0062	0,000021	0,000028	0,00388	<0,002
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0204	0,0001	0,000018	0,000011	0,00001	<0,002
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0073	0,0003	<0,000005	0,000031	0,00345	<0,002
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0108	0,0002	<0,000005	0,000014	0,00324	<0,002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0062	0,0001	<0,000005	0,000009	0,00242	<0,002
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0055	0,0006	<0,000005	0,000010	0,00261	<0,002
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0081	0,0060	0,000006	0,000033	0,00399	<0,002
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0098	0,0018	<0,000005	0,000015	0,00494	<0,002
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0133	0,0032	0,000006	0,000024	0,00501	<0,002
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0109	0,0031	0,000007	0,000078	0,00647	<0,002
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0204	0,0004	<0,000005	0,000020	0,00557	<0,002
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0269	0,0003	<0,000005	0,000086	0,00307	<0,002
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0082	0,0015	<0,000005	0,000012	0,00355	<0,002
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0118	0,0029	0,000006	0,000014	0,00643	<0,002
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0115	0,0049	0,000007	0,000010	0,00394	<0,002
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0061	0,0079	<0,000005	0,000030	0,00341	<0,002
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0080	0,0001	0,000006	0,000070	0,00556	<0,002
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0070	0,0003	<0,000005	0,000071	0,00441	<0,002
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0064	0,0086	0,000012	0,000021	0,00355	<0,002
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0130	0,0018	<0,000005	0,000025	0,01270	<0,002
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0073	0,0042	<0,000005	0,000044	0,00503	<0,002
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0069	0,0069	0,000008	0,000448	0,00522	<0,002
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0056	0,0072	0,000227	0,000123	0,00423	<0,002
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0069	0,0006	<0,000005	0,000015	0,00560	<0,002
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0087	0,0001	<0,000005	0,000025	0,00428	<0,002
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0096	0,0003	<0,000005	0,000031	0,00592	<0,002
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0103	0,0003	<0,000005	0,000036	0,00569	<0,002
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0085	0,0007	0,000009	0,000033	0,00448	<0,002
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0059	0,0004	<0,000005	0,000016	0,00402	<0,002
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0102	0,0024	<0,000005	0,000084	0,00352	<0,002
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0102	0,0022	<0,000005	0,000141	0,00230	<0,002
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0128	0,0057	0,000008	0,000026	0,00540	<0,002
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0123	0,0002	0,000010	0,000104	0,00353	<0,002
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0049	0,0088	<0,000005	0,000030	0,00506	<0,002
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0106	0,0027	<0,000005	0,000015	0,00271	<0,002
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0076	0,0099	0,000008	0,000015	0,00606	<0,002
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0158	0,0003	<0,000005	0,000019	0,00263	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-AMP-141	Stérile	Amphibolite		8,30	66,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-142	Stérile	Amphibolite		8,12	46,0	18,0	<2,0	<20,0	0,00010	<0,00005
VIS-CV5-AMP-143	Stérile	Amphibolite		8,37	68,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-144	Stérile	Amphibolite		8,17	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-145	Stérile	Amphibolite		8,13	57,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-146	Stérile	Amphibolite		7,90	49,0	2,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-147	Stérile	Amphibolite		8,34	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-148	Stérile	Amphibolite		7,94	60,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-149	Stérile	Amphibolite		7,81	61,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-150	Stérile	Amphibolite		8,09	64,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-151	Stérile	Amphibolite		8,03	65,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-152	Stérile	Amphibolite		7,92	49,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-153	Stérile	Amphibolite		8,71	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-154	Stérile	Amphibolite		8,32	50,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-155	Stérile	Amphibolite		8,45	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-156	Stérile	Amphibolite		8,69	57,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-157	Stérile	Amphibolite		8,14	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-158	Stérile	Amphibolite		8,22	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-159	Stérile	Amphibolite		8,26	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-160	Stérile	Amphibolite		8,19	72,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-161	Stérile	Amphibolite		8,21	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-162	Stérile	Amphibolite		8,22	54,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-163	Stérile	Amphibolite		7,75	74,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-164	Stérile	Amphibolite		8,21	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-165	Stérile	Amphibolite		8,19	66,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-166	Stérile	Amphibolite		8,15	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-167	Stérile	Amphibolite		7,89	64,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-168	Stérile	Amphibolite		9,16	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-169	Stérile	Amphibolite		8,73	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-170	Stérile	Amphibolite		7,96	60,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-171	Stérile	Amphibolite		8,21	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-172	Stérile	Amphibolite		7,92	48,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-173	Stérile	Amphibolite		7,89	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-174	Stérile	Amphibolite		7,95	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-175	Stérile	Amphibolite		8,01	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-176	Stérile	Amphibolite		7,83	40,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-177	Stérile	Amphibolite		7,86	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-178	Stérile	Amphibolite		7,92	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-179	Stérile	Amphibolite		7,92	52,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-180	Stérile	Amphibolite		9,04	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-181	Stérile	Amphibolite		8,02	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-AMP-182	Stérile	Amphibolite		7,67	44,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-183	Stérile	Métasédiment		7,85	54,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-184	Stérile	Métasédiment		7,89	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-185	Stérile	Métasédiment		7,73	56,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-186	Stérile	Métasédiment		7,82	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-187	Stérile	Métasédiment		7,71	56,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-188	Stérile	Métasédiment		7,84	54,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-189	Stérile	Métasédiment		7,29	56,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-190	Stérile	Métasédiment		7,77	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-191	Stérile	Métasédiment		7,73	58,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-192	Stérile	Métasédiment		7,52	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-193	Stérile	Métasédiment		7,67	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-194	Stérile	Métasédiment		7,73	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-195	Stérile	Métasédiment		7,59	110,0	37,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-196	Stérile	Métasédiment		7,92	96,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-197	Stérile	Métasédiment		7,65	81,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-198	Stérile	Métasédiment		7,86	63,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-199	Stérile	Métasédiment		7,73	54,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-200	Stérile	Métasédiment		7,81	60,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-201	Stérile	Métasédiment		7,61	55,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-202	Stérile	Métasédiment		5,72	166,0	2,0	<39,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-203	Stérile	Métasédiment		7,61	82,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-204	Stérile	Métasédiment		7,64	68,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-205	Stérile	Métasédiment		7,02	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-206	Stérile	Métasédiment		7,13	42,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-207	Stérile	Métasédiment		7,25	61,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-208	Stérile	Métasédiment		7,74	58,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-209	Stérile	Métasédiment		7,57	57,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-210	Stérile	Métasédiment		7,10	46,0	11,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-AMP-141	Stérile	Amphibolite	0,5150	0,0166	0,0210	0,0009	<0,000007	<0,00001	6,2200	<0,000003
VIS-CV5-AMP-142	Stérile	Amphibolite	0,5880	0,0032	0,0210	0,0008	0,000009	<0,00001	4,2800	<0,000003
VIS-CV5-AMP-143	Stérile	Amphibolite	0,4440	0,1300	0,0260	0,0006	<0,000007	<0,00001	8,1900	<0,000003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,6760	0,0124	0,0220	0,0007	<0,000007	<0,00001	7,1800	<0,000003
VIS-CV5-AMP-145	Stérile	Amphibolite	0,7260	0,0040	0,0240	0,0007	<0,000007	<0,00001	6,2600	<0,000003
VIS-CV5-AMP-146	Stérile	Amphibolite	0,5430	0,0214	0,0220	0,0009	<0,000007	<0,00001	5,1000	<0,000003
VIS-CV5-AMP-147	Stérile	Amphibolite	0,3670	0,0047	0,0230	0,0009	<0,000007	<0,00001	6,2900	<0,000003
VIS-CV5-AMP-148	Stérile	Amphibolite	0,3810	0,0089	0,0230	0,0006	<0,000007	<0,00001	7,2700	0,000010
VIS-CV5-AMP-149	Stérile	Amphibolite	0,3080	0,0611	0,0220	0,0008	0,000027	<0,00001	6,6300	<0,000003
VIS-CV5-AMP-150	Stérile	Amphibolite	0,7020	0,0187	0,0220	0,0009	0,000020	<0,00001	7,0300	<0,000003
VIS-CV5-AMP-151	Stérile	Amphibolite	0,4520	0,0155	0,0360	0,0006	0,000007	<0,00001	6,2400	<0,000003
VIS-CV5-AMP-152	Stérile	Amphibolite	0,5740	0,0057	0,0270	0,0010	0,000012	<0,00001	4,0000	0,000005
VIS-CV5-AMP-153	Stérile	Amphibolite	0,1880	0,3930	0,0270	0,0006	0,000012	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-154	Stérile	Amphibolite	0,8460	0,0060	0,0290	0,0020	0,000041	<0,00001	5,1300	<0,000003
VIS-CV5-AMP-155	Stérile	Amphibolite	0,5100	0,1670	0,0240	0,0008	0,000030	<0,00001	6,1100	<0,000003
VIS-CV5-AMP-156	Stérile	Amphibolite	0,3510	0,0173	0,0200	0,0010	<0,000007	<0,00001	7,0000	<0,000003
VIS-CV5-AMP-157	Stérile	Amphibolite	0,5550	0,0049	0,0200	0,0007	<0,000007	<0,00001	6,9300	<0,000003
VIS-CV5-AMP-158	Stérile	Amphibolite	0,3490	0,0017	0,0270	0,0006	<0,000007	<0,00001	6,4200	<0,000003
VIS-CV5-AMP-159	Stérile	Amphibolite	0,4400	0,0768	0,0470	0,0017	0,000061	<0,00001	5,3900	0,000004
VIS-CV5-AMP-160	Stérile	Amphibolite	0,4250	0,1130	0,0320	0,0028	0,000030	<0,00001	5,4100	0,000004
VIS-CV5-AMP-161	Stérile	Amphibolite	0,3450	0,0235	0,0270	0,0016	0,000015	<0,00001	6,4200	0,000192
VIS-CV5-AMP-162	Stérile	Amphibolite	0,7050	0,0058	0,0280	0,0015	<0,000007	<0,00001	6,3000	<0,000003
VIS-CV5-AMP-163	Stérile	Amphibolite	0,3180	0,0437	0,0320	0,0016	<0,000007	<0,00001	7,8200	0,000009
VIS-CV5-AMP-164	Stérile	Amphibolite	0,4290	0,0132	0,0260	0,0005	<0,000007	<0,00001	6,6600	<0,000003
VIS-CV5-AMP-165	Stérile	Amphibolite	0,4450	0,0442	0,0330	0,0006	<0,000007	<0,00001	5,4300	0,000007
VIS-CV5-AMP-166	Stérile	Amphibolite	0,7370	0,0187	0,0230	0,0005	<0,000007	<0,00001	6,8200	<0,000003
VIS-CV5-AMP-167	Stérile	Amphibolite	0,2270	0,0038	0,0330	0,0008	<0,000007	<0,00001	6,2200	<0,000003
VIS-CV5-AMP-168	Stérile	Amphibolite	0,3220	0,0362	0,0320	0,0009	<0,000007	<0,00001	5,9400	<0,000003
VIS-CV5-AMP-169	Stérile	Amphibolite	0,7010	0,0112	0,0230	0,0009	<0,000007	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-170	Stérile	Amphibolite	0,4550	0,0245	0,0210	0,0006	0,000011	<0,00001	6,4300	<0,000003
VIS-CV5-AMP-171	Stérile	Amphibolite	0,4980	0,0178	0,0220	0,0016	<0,000007	<0,00001	6,4600	<0,000003
VIS-CV5-AMP-172	Stérile	Amphibolite	0,7380	0,0037	0,0040	0,0004	0,000007	<0,00001	7,1300	<0,000003
VIS-CV5-AMP-173	Stérile	Amphibolite	0,4420	0,0118	0,0240	0,0005	0,000014	<0,00001	6,4800	<0,000003
VIS-CV5-AMP-174	Stérile	Amphibolite	0,6660	0,0029	0,0020	0,0002	<0,000007	<0,00001	7,7900	<0,000003
VIS-CV5-AMP-175	Stérile	Amphibolite	0,4920	0,0538	0,0250	0,0006	<0,000007	<0,00001	6,2800	<0,000003
VIS-CV5-AMP-176	Stérile	Amphibolite	0,5640	0,0222	0,0230	0,0043	0,000011	<0,00001	2,7700	<0,000003
VIS-CV5-AMP-177	Stérile	Amphibolite	0,4020	0,0382	0,0250	0,0005	0,000009	<0,00001	4,4900	<0,000003
VIS-CV5-AMP-178	Stérile	Amphibolite	0,4910	0,0301	0,0240	0,0008	0,000009	<0,00001	6,1700	0,000060
VIS-CV5-AMP-179	Stérile	Amphibolite	0,7270	0,1180	0,0470	0,0008	0,000013	<0,00001	7,6900	<0,000003
VIS-CV5-AMP-180	Stérile	Amphibolite	0,4310	0,0209	0,0360	0,0009	0,000008	<0,00001	4,6300	0,000004
VIS-CV5-AMP-181	Stérile	Amphibolite	0,4630	0,0054	0,0200	0,0009	<0,000007	<0,00001	6,8300	<0,000003
VIS-CV5-AMP-182	Stérile	Amphibolite	0,4980	0,0059	0,0270	0,0008	0,000008	<0,00001	4,0500	0,000006
VIS-CV5-MS-183	Stérile	Métasédiment	0,4710	0,0125	0,0240	0,0025	<0,000007	<0,00001	5,3300	<0,000003
VIS-CV5-MS-184	Stérile	Métasédiment	0,4610	0,0072	0,0210	0,0046	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-MS-185	Stérile	Métasédiment	0,5340	0,0051	0,0270	0,0020	0,000010	<0,00001	5,6200	<0,000003
VIS-CV5-MS-186	Stérile	Métasédiment	0,4830	0,0078	0,0270	0,0018	<0,000007	<0,00001	6,5600	<0,000003
VIS-CV5-MS-187	Stérile	Métasédiment	0,1720	0,0004	0,0210	0,0019	<0,000007	<0,00001	7,0100	<0,000003
VIS-CV5-MS-188	Stérile	Métasédiment	0,4660	0,0132	0,0260	0,0020	0,000019	<0,00001	5,4100	<0,000003
VIS-CV5-MS-189	Stérile	Métasédiment	0,4890	0,0210	0,0270	0,0027	<0,000007	<0,00001	5,7300	<0,000003
VIS-CV5-MS-190	Stérile	Métasédiment	0,5880	0,0024	0,0310	0,0043	<0,000007	<0,00001	4,8700	<0,000003
VIS-CV5-MS-191	Stérile	Métasédiment	0,3480	0,0025	0,0300	0,0008	<0,000007	<0,00001	5,9700	<0,000003
VIS-CV5-MS-192	Stérile	Métasédiment	0,5930	0,0213	0,0370	0,0017	0,000053	<0,00001	5,4700	<0,000003
VIS-CV5-MS-193	Stérile	Métasédiment	0,5000	0,0444	0,0270	0,0010	<0,000007	<0,00001	5,8400	<0,000003
VIS-CV5-MS-194	Stérile	Métasédiment	0,3170	0,0271	0,0330	0,0009	<0,000007	<0,00001	4,7600	<0,000003
VIS-CV5-MS-195	Stérile	Métasédiment	0,0430	0,0025	0,0250	0,0021	<0,000007	<0,00001	13,7000	<0,000003
VIS-CV5-MS-196	Stérile	Métasédiment	0,0880	0,0124	0,0230	0,0017	<0,000007	<0,00001	11,0000	<0,000003
VIS-CV5-MS-197	Stérile	Métasédiment	0,0950	0,0118	0,0250	0,0026	<0,000007	<0,00001	9,7800	<0,000003
VIS-CV5-MS-198	Stérile	Métasédiment	0,3680	0,0061	0,0280	0,0013	0,000053	<0,00001	6,6400	<0,000003
VIS-CV5-MS-199	Stérile	Métasédiment	0,4760	0,0020	0,0250	0,0017	<0,000007	<0,00001	5,7400	<0,000003
VIS-CV5-MS-200	Stérile	Métasédiment	0,5250	0,0742	0,0290	0,0016	0,000041	<0,00001	5,5600	<0,000003
VIS-CV5-MS-201	Stérile	Métasédiment	0,2390	0,0008	0,0270	0,0019	0,000011	<0,00001	5,2300	<0,000003
VIS-CV5-MS-202	Stérile	Métasédiment	1,1500	0,0004	0,0660	0,0062	0,000861	<0,00001	10,8000	0,000069
VIS-CV5-MS-203	Stérile	Métasédiment	0,1350	0,0047	0,0320	0,0011	0,000013	<0,00001	10,9000	<0,000003
VIS-CV5-MS-204	Stérile	Métasédiment	0,5010	0,0582	0,0330	0,0022	0,000013	<0,00001	6,2100	0,000005
VIS-CV5-MS-205	Stérile	Métasédiment	0,4370	0,0112	0,0440	0,0034	0,000055	0,00002	1,1500	<0,000003
VIS-CV5-MS-206	Stérile	Métasédiment	0,4180	0,0062	0,0410	0,0037	0,000015	<0,00001	1,2400	0,000021
VIS-CV5-MS-207	Stérile	Métasédiment	0,2990	0,0046	0,0410	0,0018	0,000011	<0,00001	5,7400	<0,000003
VIS-CV5-MS-208	Stérile	Métasédiment	0,7500	0,0137	0,0260	0,0049	0,000013	<0,00001	5,6100	0,000008
VIS-CV5-MS-209	Stérile	Métasédiment	0,5700	0,0094	0,0250	0,0042	0,000011	<0,00001	5,6600	<0,000003
VIS-CV5-MS-210	Stérile	Métasédiment	0,3070	0,1610	0,0870	0,0039	0,000164	0,00010	2,0500	0,000040

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0001	<0,00008	<0,001	0,209	0,4070	0,0114	0,5760	0,0033
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0002	0,00098	<0,001	0,438	0,1380	0,0275	0,6540	0,0080
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2510	0,0286	0,4580	0,0003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0001	0,00035	<0,001	0,124	0,1990	0,0198	0,5970	0,0027
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0002	0,00126	<0,001	0,353	0,1190	0,0208	0,7370	0,0073
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0002	0,00099	<0,001	0,251	0,3220	0,0215	0,8530	0,0051
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0001	0,00073	<0,001	0,088	0,3590	0,0205	0,8030	0,0023
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0000	0,00021	<0,001	0,038	0,6590	0,0240	0,4350	0,0013
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0003	0,00279	<0,001	0,248	0,1590	0,0394	0,9270	0,0067
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0002	0,00103	<0,001	0,188	0,5970	0,0409	0,7350	0,0038
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0000	0,00011	<0,001	0,038	0,2180	0,0185	0,4640	0,0011
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0002	0,00183	<0,001	0,301	0,1220	0,0430	0,7140	0,0116
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0001	0,00092	<0,001	0,061	0,4200	0,0182	0,8700	0,0014
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0002	0,00085	<0,001	0,299	0,7620	0,0200	0,8020	0,0058
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0002	0,00190	<0,001	0,157	1,2700	0,0865	0,8680	0,0038
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0000	<0,00008	<0,001	<0,007	0,2930	0,0215	0,4280	0,0002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,033	0,1160	0,0258	0,5400	0,0008
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0001	0,00026	<0,001	0,126	0,1510	0,0034	0,7560	0,0026
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0002	0,00042	<0,001	0,135	2,0000	0,0610	0,7580	0,0036
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0001	0,00096	<0,001	0,103	3,9600	0,1560	0,7200	0,0036
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0001	0,00078	<0,001	0,108	0,6370	0,0264	0,8780	0,0041
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0001	0,00056	<0,001	0,256	0,3840	0,0346	0,6630	0,0041
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0001	0,00088	<0,001	0,074	0,9700	0,0155	0,9420	0,0012
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0001	0,00021	<0,001	0,058	0,2890	0,0173	0,6010	0,0017
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0000	0,00032	<0,001	0,072	0,5590	0,0873	0,7240	0,0013
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0000	0,00017	<0,001	0,017	0,6530	0,0256	0,6090	0,0004
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0000	0,00009	<0,001	0,016	0,2740	0,0066	0,6110	0,0006
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,024	0,7240	0,0253	0,8040	0,0009
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0001	0,00050	<0,001	0,149	0,5180	0,0138	0,8090	0,0032
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0001	0,00014	<0,001	0,094	0,2890	0,0171	0,7280	0,0016
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0001	0,00045	<0,001	0,106	0,6130	0,0464	0,6650	0,0026
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,2270	0,0278	0,5220	0,0009
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0001	0,00033	<0,001	0,104	0,4730	0,0287	0,6580	0,0024
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,1060	0,0211	0,4860	0,0009
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0000	0,00013	<0,001	0,020	0,6290	0,0252	0,5660	0,0006
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0002	0,00070	<0,001	0,294	0,5110	0,0331	0,8040	0,0047
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0001	0,00047	<0,001	0,074	0,4340	0,0297	0,5290	0,0018
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0001	0,00039	<0,001	0,094	0,4940	0,0182	0,6200	0,0028
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0000	<0,00008	<0,001	0,007	0,5570	0,0186	0,6520	0,0018
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0001	0,00046	<0,001	0,096	0,4170	0,0595	0,6910	0,0019
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0001	0,00031	<0,001	0,105	0,2640	0,0251	0,6120	0,0024
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0003	0,00138	<0,001	0,372	0,2570	0,0412	0,8890	0,0058
VIS-CV5-MS-183	Stérile	Métasédiment	0,0001	0,00030	<0,001	0,077	1,2900	0,0502	0,3930	0,0018
VIS-CV5-MS-184	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,078	3,0800	0,0318	0,3090	0,0018
VIS-CV5-MS-185	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,079	0,8030	0,0302	0,5270	0,0019
VIS-CV5-MS-186	Stérile	Métasédiment	0,0001	0,00028	<0,001	0,095	1,1200	0,0367	0,4110	0,0030
VIS-CV5-MS-187	Stérile	Métasédiment	0,0000	0,00011	<0,001	0,049	0,9940	0,0117	0,5580	0,0019
VIS-CV5-MS-188	Stérile	Métasédiment	0,0001	0,00010	<0,001	0,133	2,1600	0,0951	0,3310	0,0030
VIS-CV5-MS-189	Stérile	Métasédiment	0,0001	0,00022	<0,001	0,108	1,6900	0,0704	0,2380	0,0022
VIS-CV5-MS-190	Stérile	Métasédiment	0,0001	0,00033	<0,001	0,198	2,9300	0,0037	0,2660	0,0019
VIS-CV5-MS-191	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,024	1,2500	0,0198	0,6400	0,0005
VIS-CV5-MS-192	Stérile	Métasédiment	0,0001	0,00013	<0,001	0,094	1,7500	0,0299	0,3050	0,0018
VIS-CV5-MS-193	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,027	1,5000	0,0538	0,5800	0,0006
VIS-CV5-MS-194	Stérile	Métasédiment	0,0000	0,00008	<0,001	0,020	1,8200	0,0457	1,0800	0,0004
VIS-CV5-MS-195	Stérile	Métasédiment	0,0000	<0,00008	<0,001	<0,007	0,1410	0,0010	0,9410	0,0014
VIS-CV5-MS-196	Stérile	Métasédiment	0,0000	0,00014	<0,001	<0,007	0,6980	0,0013	0,7650	0,0009
VIS-CV5-MS-197	Stérile	Métasédiment	0,0000	<0,00008	<0,001	<0,007	0,7160	0,0011	0,7720	0,0006
VIS-CV5-MS-198	Stérile	Métasédiment	0,0000	0,00015	<0,001	0,039	1,5800	0,0526	0,6690	0,0011
VIS-CV5-MS-199	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,065	1,0900	0,0244	0,4300	0,0019
VIS-CV5-MS-200	Stérile	Métasédiment	0,0001	0,00031	<0,001	0,064	1,3000	0,0598	0,5270	0,0022
VIS-CV5-MS-201	Stérile	Métasédiment	0,0000	0,00016	<0,001	0,065	1,5400	0,0556	0,4880	0,0012
VIS-CV5-MS-202	Stérile	Métasédiment	0,0225	<0,00008	<0,003	16,500	1,3300	0,1330	2,4300	0,2130
VIS-CV5-MS-203	Stérile	Métasédiment	0,0000	0,00025	<0,001	0,016	0,2360	0,0235	0,8140	0,0012
VIS-CV5-MS-204	Stérile	Métasédiment	0,0001	0,00019	<0,001	0,069	2,2400	0,1390	0,5940	0,0046
VIS-CV5-MS-205	Stérile	Métasédiment	0,0002	0,00197	<0,001	0,338	2,3000	0,1500	0,4220	0,0070
VIS-CV5-MS-206	Stérile	Métasédiment	0,0002	0,00041	<0,001	0,341	2,8400	0,0301	0,5670	0,0025
VIS-CV5-MS-207	Stérile	Métasédiment	0,0001	0,00047	<0,001	0,055	1,3900	0,0853	0,5210	0,0048
VIS-CV5-MS-208	Stérile	Métasédiment	0,0001	0,00026	<0,001	0,053	1,6000	0,0370	0,2580	0,0045
VIS-CV5-MS-209	Stérile	Métasédiment	0,0001	0,00057	<0,001	0,107	1,1500	0,0772	0,5410	0,0024
VIS-CV5-MS-210	Stérile	Métasédiment	0,0014	0,00023	<0,002	0,141	2,2300	0,2620	0,5720	0,0226

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# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0010	6,9100	<0,0001	0,0040	<0,00009	0,0035	0,00006	0,00006
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0006	4,8700	0,0006	0,0150	<0,00009	0,0062	<0,00004	0,00074
VIS-CV5-AMP-143	Stérile	Amphibolite	<0,0004	5,3900	0,0002	0,0030	<0,00009	0,0230	0,00010	0,00063
VIS-CV5-AMP-144	Stérile	Amphibolite	<0,0004	5,4700	0,0002	0,0030	<0,00009	0,0037	0,00004	0,00012
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0021	4,6300	0,0007	0,0060	<0,00009	0,0040	0,00008	<0,00006
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0005	3,5400	0,0008	0,0030	<0,00009	0,0778	0,00008	<0,00006
VIS-CV5-AMP-147	Stérile	Amphibolite	<0,0004	5,3400	0,0002	0,0030	<0,00009	0,0025	0,00009	<0,00006
VIS-CV5-AMP-148	Stérile	Amphibolite	<0,0004	4,7000	0,0003	0,0030	0,00020	0,0032	0,00007	0,00032
VIS-CV5-AMP-149	Stérile	Amphibolite	<0,0004	5,1500	0,0014	0,0030	0,00011	0,0732	0,00029	<0,00006
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0027	5,4400	0,0004	0,0030	<0,00009	0,0065	0,00015	0,00074
VIS-CV5-AMP-151	Stérile	Amphibolite	<0,0004	6,9400	<0,0001	0,0030	<0,00009	0,0026	0,00019	0,00015
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0026	5,3500	0,0006	0,0060	<0,00009	0,0086	<0,00004	0,00007
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0014	5,8400	0,0005	0,0030	<0,00009	0,0377	0,00008	0,00073
VIS-CV5-AMP-154	Stérile	Amphibolite	<0,0004	4,6700	0,0004	0,0050	<0,00009	0,0045	0,00005	0,00015
VIS-CV5-AMP-155	Stérile	Amphibolite	<0,0004	5,5700	0,0010	0,0050	0,00011	0,0278	0,00007	0,00019
VIS-CV5-AMP-156	Stérile	Amphibolite	<0,0004	4,0800	<0,0001	0,0030	<0,00009	0,0181	0,00006	0,00009
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0012	4,4400	<0,0001	0,0030	<0,00009	0,0044	0,00004	0,00039
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0056	5,1300	0,0002	0,0050	<0,00009	0,0009	<0,00004	0,00012
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0007	4,9800	0,0007	0,0050	<0,00009	0,0429	0,00023	0,00010
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0097	5,5100	0,0003	0,0080	0,00011	0,0203	0,00062	0,00022
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0030	5,1800	0,0003	0,0030	0,00039	0,0136	0,00011	0,00017
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0016	5,1000	0,0003	0,0050	0,00009	0,0083	0,00005	0,00012
VIS-CV5-AMP-163	Stérile	Amphibolite	<0,0004	5,3400	0,0010	0,0030	0,00015	0,0564	0,00020	0,00089
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0053	5,0600	<0,0001	0,0030	0,00009	0,0051	0,00015	0,00009
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0028	6,5400	0,0002	0,0040	0,00011	0,0188	0,00010	0,00052
VIS-CV5-AMP-166	Stérile	Amphibolite	<0,0004	4,1100	<0,0001	0,0030	<0,00009	0,0024	0,00005	0,00026
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0007	5,4000	<0,0001	0,0030	<0,00009	0,0013	<0,00004	0,00018
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0047	5,6700	<0,0001	0,0080	<0,00009	0,0091	<0,00004	0,00018
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0044	5,2200	0,0004	0,0030	<0,00009	0,0035	<0,00004	0,00086
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0013	4,4900	0,0001	0,0040	<0,00009	0,0056	0,00012	0,00126
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0067	5,1200	0,0003	0,0030	<0,00009	0,0047	0,00011	0,00015
VIS-CV5-AMP-172	Stérile	Amphibolite	<0,0004	1,0900	<0,0001	0,0030	<0,00009	0,0038	0,00007	0,00027
VIS-CV5-AMP-173	Stérile	Amphibolite	<0,0004	5,1000	0,0002	0,0030	<0,00009	0,0056	0,00009	0,00018
VIS-CV5-AMP-174	Stérile	Amphibolite	<0,0004	0,8000	0,0002	0,0030	<0,00009	<0,0009	0,00007	0,00021
VIS-CV5-AMP-175	Stérile	Amphibolite	<0,0004	4,8700	0,0001	0,0030	<0,00009	0,0219	0,00016	0,00187
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0005	4,2700	0,0010	0,0060	<0,00009	0,0137	0,00004	0,00147
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0005	4,4500	0,0005	0,0070	<0,00009	0,0744	0,00011	0,00008
VIS-CV5-AMP-178	Stérile	Amphibolite	<0,0004	4,6200	0,0004	0,0030	0,00029	0,0093	0,00014	0,00016
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0006	0,6100	0,0001	0,0240	<0,00009	0,0116	0,00013	<0,00006
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0020	6,1400	0,0002	0,0030	0,00029	0,0247	0,00007	0,00012
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0009	4,0700	0,0001	0,0030	0,00012	0,0041	<0,00004	<0,00006
VIS-CV5-AMP-182	Stérile	Amphibolite	<0,0004	4,1200	0,0009	0,0110	<0,00009	0,0112	0,00005	<0,00006
VIS-CV5-MS-183	Stérile	Métasédiment	0,0006	5,2400	0,0002	0,0110	<0,00009	0,0139	0,00004	0,00038
VIS-CV5-MS-184	Stérile	Métasédiment	<0,0004	4,7600	<0,0001	0,0100	<0,00009	0,0009	<0,00004	0,00009
VIS-CV5-MS-185	Stérile	Métasédiment	0,0005	5,3600	<0,0001	0,0100	<0,00009	0,0027	<0,00004	0,00007
VIS-CV5-MS-186	Stérile	Métasédiment	0,0007	5,3700	0,0002	0,0070	0,00018	0,0038	0,00005	<0,00006
VIS-CV5-MS-187	Stérile	Métasédiment	<0,0004	3,5200	0,0001	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-188	Stérile	Métasédiment	<0,0004	4,5300	0,0001	0,0130	<0,00009	0,0075	<0,00004	<0,00006
VIS-CV5-MS-189	Stérile	Métasédiment	<0,0004	5,0600	0,0002	0,0080	<0,00009	0,0056	<0,00004	0,00009
VIS-CV5-MS-190	Stérile	Métasédiment	<0,0004	5,6100	<0,0001	0,0150	0,00011	<0,0009	<0,00004	0,00011
VIS-CV5-MS-191	Stérile	Métasédiment	0,0017	5,0400	<0,0001	0,0040	0,00275	0,0025	0,00007	<0,00006
VIS-CV5-MS-192	Stérile	Métasédiment	<0,0004	5,3900	<0,0001	0,0090	<0,00009	0,0017	<0,00004	0,00036
VIS-CV5-MS-193	Stérile	Métasédiment	<0,0004	5,3200	<0,0001	0,0050	<0,00009	0,0027	<0,00004	<0,00006
VIS-CV5-MS-194	Stérile	Métasédiment	0,0007	5,1400	<0,0001	0,0030	<0,00009	0,0051	<0,00004	<0,00006
VIS-CV5-MS-195	Stérile	Métasédiment	<0,0004	5,6300	0,0003	0,0030	<0,00009	0,0009	<0,00004	0,00016
VIS-CV5-MS-196	Stérile	Métasédiment	<0,0004	5,8500	0,0004	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-197	Stérile	Métasédiment	<0,0004	3,7700	0,0003	0,0030	<0,00009	0,0009	0,00006	<0,00006
VIS-CV5-MS-198	Stérile	Métasédiment	0,0005	4,8000	0,0002	0,0050	<0,00009	0,0056	<0,00004	0,00009
VIS-CV5-MS-199	Stérile	Métasédiment	0,0005	4,8200	<0,0001	0,0080	<0,00009	0,0025	<0,00004	0,00007
VIS-CV5-MS-200	Stérile	Métasédiment	0,0011	6,1400	0,0004	0,0060	<0,0002	0,0172	0,00010	0,00013
VIS-CV5-MS-201	Stérile	Métasédiment	0,0006	4,4300	0,0001	0,0030	<0,00009	0,0022	<0,00004	0,00006
VIS-CV5-MS-202	Stérile	Métasédiment	<0,0004	4,8600	0,0537	0,0030	<0,00009	0,0009	0,00020	<0,00006
VIS-CV5-MS-203	Stérile	Métasédiment	0,0033	4,9000	0,0001	0,0030	<0,00009	0,0054	0,00038	<0,00006
VIS-CV5-MS-204	Stérile	Métasédiment	<0,0004	5,6900	0,0002	0,0030	0,00015	0,1190	0,00012	0,00007
VIS-CV5-MS-205	Stérile	Métasédiment	<0,0004	5,1200	0,0038	0,0030	0,00018	0,2250	0,00005	0,00068
VIS-CV5-MS-206	Stérile	Métasédiment	<0,0004	5,2600	0,0006	0,0110	0,00010	0,0047	0,00018	<0,00006
VIS-CV5-MS-207	Stérile	Métasédiment	0,0005	5,0100	0,0002	0,0030	<0,00009	0,0094	0,00005	<0,00006
VIS-CV5-MS-208	Stérile	Métasédiment	0,0006	5,2800	0,0004	0,0030	<0,00019	0,0070	0,00004	0,00009
VIS-CV5-MS-209	Stérile	Métasédiment	<0,0004	5,2500	0,0003	0,0030	<0,00009	0,0085	0,00010	<0,00006
VIS-CV5-MS-210	Stérile	Métasédiment	<0,0004	4,4100	0,0086	0,0030	0,00307	0,8730	0,00062	0,00053

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0140	0,0049	<0,000005	0,000024	0,00738	<0,002
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0037	0,0153	0,000009	0,000015	0,00429	<0,002
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0120	0,0002	<0,000005	0,000021	0,00382	<0,002
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0094	0,0043	<0,000005	0,000396	0,00506	<0,002
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0088	0,0102	<0,000005	0,000025	0,00424	<0,002
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0062	0,0079	0,000006	0,000037	0,00374	<0,002
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0099	0,0022	0,000005	0,000064	0,00500	<0,002
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0063	0,0016	0,000007	0,000087	0,00364	<0,002
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0192	0,0059	0,000015	0,000083	0,00378	<0,002
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0106	0,0048	0,000007	0,000057	0,00440	<0,002
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0073	0,0013	<0,000005	0,000170	0,00593	<0,002
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0048	0,0130	0,000016	0,000032	0,00493	<0,002
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0101	0,0021	0,000005	0,000012	0,00818	<0,002
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0062	0,0095	0,000010	0,000025	0,00477	<0,002
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0083	0,0050	0,000067	0,000104	0,00415	<0,002
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0118	0,0001	<0,000005	0,000013	0,00330	<0,002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0088	0,0012	<0,000005	0,000008	0,00450	<0,002
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0129	0,0032	<0,000005	0,000011	0,00419	<0,002
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0097	0,0042	0,000060	0,000043	0,00676	<0,002
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0094	0,0042	0,000204	0,000109	0,00802	<0,002
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0107	0,0034	0,000018	0,000055	0,00540	<0,132
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0100	0,0091	0,000008	0,000020	0,00515	<0,002
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0096	0,0013	<0,000005	0,000147	0,00134	<0,002
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0106	0,0022	<0,000005	0,000120	0,00503	<0,002
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0188	0,0035	<0,000005	0,000026	0,00645	<0,002
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0073	0,0006	<0,000005	0,000008	0,00545	<0,002
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0331	0,0014	<0,000005	0,000007	0,00569	<0,002
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0166	0,0006	<0,000005	0,000011	0,00481	<0,002
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0077	0,0055	<0,000005	0,000129	0,00461	<0,002
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0071	0,0030	<0,000005	0,000016	0,00562	<0,002
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0134	0,0052	0,000011	0,000029	0,00424	<0,002
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0083	0,0002	<0,000005	0,000131	0,00463	<0,002
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0099	0,0047	0,000014	0,000138	0,00362	<0,002
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0077	0,0002	<0,000005	0,000315	0,00288	<0,002
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0105	0,0006	<0,000005	0,000055	0,00504	<0,002
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0048	0,0103	0,000006	0,000006	0,00345	<0,002
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0060	0,0029	0,000032	0,000007	0,00352	<0,002
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0063	0,0032	0,000011	0,000041	0,00525	<0,047
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0071	0,0002	0,000012	0,000031	0,00453	<0,002
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0137	0,0057	<0,000005	0,000221	0,00507	<0,002
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0092	0,0038	<0,000005	0,000049	0,00336	<0,002
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0061	0,0130	0,000005	0,000026	0,00359	<0,002
VIS-CV5-MS-183	Stérile	Métasédiment	0,0090	0,0082	0,000010	0,000443	0,00308	<0,002
VIS-CV5-MS-184	Stérile	Métasédiment	0,0103	0,0058	<0,000005	0,000082	0,00171	<0,002
VIS-CV5-MS-185	Stérile	Métasédiment	0,0076	0,0077	<0,000005	0,000037	0,00202	<0,002
VIS-CV5-MS-186	Stérile	Métasédiment	0,0094	0,0076	0,000006	0,000063	0,00188	<0,002
VIS-CV5-MS-187	Stérile	Métasédiment	0,0160	0,0013	<0,000005	0,000071	0,00075	<0,002
VIS-CV5-MS-188	Stérile	Métasédiment	0,0102	0,0103	0,000048	0,000043	0,00178	<0,002
VIS-CV5-MS-189	Stérile	Métasédiment	0,0068	0,0102	0,000016	0,000047	0,00198	<0,002
VIS-CV5-MS-190	Stérile	Métasédiment	0,0064	0,0205	<0,000005	0,000097	0,00355	<0,002
VIS-CV5-MS-191	Stérile	Métasédiment	0,0205	0,0022	<0,000005	0,000024	0,00048	<0,002
VIS-CV5-MS-192	Stérile	Métasédiment	0,0086	0,0123	0,000012	0,000323	0,00281	<0,002
VIS-CV5-MS-193	Stérile	Métasédiment	0,0132	0,0026	0,000009	0,000029	0,00204	<0,002
VIS-CV5-MS-194	Stérile	Métasédiment	0,0202	0,0018	<0,000005	0,000016	0,00120	<0,002
VIS-CV5-MS-195	Stérile	Métasédiment	0,0251	0,0001	<0,000005	0,000340	0,00055	<0,002
VIS-CV5-MS-196	Stérile	Métasédiment	0,0231	0,0001	<0,000005	0,000064	0,00049	<0,002
VIS-CV5-MS-197	Stérile	Métasédiment	0,0194	0,0001	<0,000005	0,000041	0,00053	<0,002
VIS-CV5-MS-198	Stérile	Métasédiment	0,0094	0,0035	0,000008	0,000073	0,00110	<0,002
VIS-CV5-MS-199	Stérile	Métasédiment	0,0078	0,0064	<0,000005	0,000046	0,00147	<0,002
VIS-CV5-MS-200	Stérile	Métasédiment	0,0083	0,0069	0,000010	0,000075	0,00281	<0,002
VIS-CV5-MS-201	Stérile	Métasédiment	0,0095	0,0055	<0,000005	0,000040	0,00045	<0,002
VIS-CV5-MS-202	Stérile	Métasédiment	0,0137	0,0001	0,000020	0,000289	0,00005	<0,015
VIS-CV5-MS-203	Stérile	Métasédiment	0,0112	0,0008	<0,000005	0,000063	0,00016	<0,002
VIS-CV5-MS-204	Stérile	Métasédiment	0,0171	0,0066	0,000052	0,000085	0,00256	<0,002
VIS-CV5-MS-205	Stérile	Métasédiment	0,0022	0,0217	0,000500	0,000213	0,00116	<0,002
VIS-CV5-MS-206	Stérile	Métasédiment	0,0044	0,0203	0,000012	0,000047	0,00210	<0,002
VIS-CV5-MS-207	Stérile	Métasédiment	0,0091	0,0054	0,000030	0,000107	0,00094	<0,002
VIS-CV5-MS-208	Stérile	Métasédiment	0,0109	0,0081	0,000017	0,000305	0,00144	<0,002
VIS-CV5-MS-209	Stérile	Métasédiment	0,0115	0,0070	0,000008	0,000071	0,00403	<0,002
VIS-CV5-MS-210	Stérile	Métasédiment	0,0061	0,0084	0,000741	0,000089	0,00048	<0,004

Essais SPLP

# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-MS-211	Stérile	Métasédiment		7,59	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-212	Stérile	Métasédiment		7,81	62,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-213	Stérile	Métasédiment		7,81	56,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-214	Stérile	Métasédiment		7,99	52,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-215	Stérile	Métasédiment		8,06	58,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-216	Stérile	Métasédiment		7,94	58,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-217	Stérile	Métasédiment		7,87	54,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-218	Stérile	Métasédiment		7,80	55,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-219	Stérile	Métasédiment		8,07	62,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-220	Stérile	Métasédiment		7,72	41,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-221	Stérile	Métasédiment		8,24	57,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-222	Stérile	Métasédiment		7,77	54,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-223	Stérile	Métasédiment		7,46	46,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-224	Stérile	Métasédiment		7,28	47,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-225	Stérile	Métasédiment		8,04	52,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-226	Stérile	Métasédiment		8,13	55,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-227	Stérile	Métasédiment		7,59	57,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-228	Stérile	Métasédiment		8,50	52,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-229	Stérile	Métasédiment		8,44	80,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-230	Stérile	Métasédiment		8,59	73,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-231	Stérile	Métasédiment		7,58	61,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-232	Stérile	Métasédiment		8,00	43,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-233	Stérile	Métasédiment		8,25	42,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-234	Stérile	Métasédiment		8,02	52,0	18,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-235	Stérile	Métasédiment		8,98	61,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-236	Stérile	Métasédiment		8,42	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-237	Stérile	Métasédiment		8,33	48,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-238	Stérile	Métasédiment		8,23	62,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-239	Stérile	Métasédiment		8,16	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-240	Stérile	Métasédiment		8,32	64,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-241	Stérile	Métasédiment		7,88	48,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-242	Stérile	Métasédiment		8,16	60,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-243	Stérile	Métasédiment		8,12	58,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-244	Stérile	Métasédiment		8,38	61,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-245	Stérile	Métasédiment		8,57	62,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-246	Stérile	Métasédiment		8,24	56,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-247	Stérile	Métasédiment		8,38	57,0	31,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-248	Stérile	Métasédiment		8,31	63,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-249	Stérile	Métasédiment		8,49	59,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-250	Stérile	Métasédiment		8,05	62,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-251	Stérile	Métasédiment		8,05	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-252	Stérile	Métasédiment		8,50	63,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-253	Stérile	Métasédiment		7,58	82,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-254	Stérile	Métasédiment		8,73	59,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-255	Stérile	Métasédiment		8,33	61,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-256	Stérile	Métasédiment		8,13	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-257	Stérile	Métasédiment		7,88	46,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-MS-258	Stérile	Métasédiment		8,61	58,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-259	Stérile	Pegmatite stérile		8,31	58,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile		7,90	39,0	12,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-261	Stérile	Pegmatite stérile		7,73	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-262	Stérile	Pegmatite stérile		7,39	26,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile		7,50	24,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-264	Stérile	Pegmatite stérile		7,92	41,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-265	Stérile	Pegmatite stérile		8,21	55,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-266	Stérile	Pegmatite stérile		8,55	56,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-267	Stérile	Pegmatite stérile		8,26	47,0	15,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-268	Stérile	Pegmatite stérile		8,47	61,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-269	Stérile	Pegmatite stérile		7,84	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-270	Stérile	Pegmatite stérile		8,78	53,0	24,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile		7,71	28,0	9,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile		8,24	35,0	12,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-273	Stérile	Pegmatite stérile		8,23	40,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-274	Stérile	Pegmatite stérile		8,92	59,0	26,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile		8,49	44,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-276	Stérile	Pegmatite stérile		8,22	37,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-277	Stérile	Pegmatite stérile		8,43	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-PEG-278	Stérile	Pegmatite stérile		8,22	33,0	11,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-279	Stérile	Ultramafique		7,90	51,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-280	Stérile	Ultramafique		7,74	52,0	23,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-MS-211	Stérile	Métasédiment	0,5590	0,2700	0,0360	0,0039	0,000028	0,00002	3,1800	0,000006
VIS-CV5-MS-212	Stérile	Métasédiment	0,7210	0,0709	0,0310	0,0034	0,000052	0,00003	5,9800	0,000011
VIS-CV5-MS-213	Stérile	Métasédiment	0,5660	0,0058	0,0240	0,0025	<0,000007	<0,00001	5,3200	<0,000003
VIS-CV5-MS-214	Stérile	Métasédiment	0,5170	0,0127	0,0300	0,0022	0,000036	<0,00001	4,1700	<0,000003
VIS-CV5-MS-215	Stérile	Métasédiment	0,5550	0,0246	0,0260	0,0019	0,000016	<0,00001	5,9000	<0,000003
VIS-CV5-MS-216	Stérile	Métasédiment	0,4210	0,1060	0,0420	0,0011	<0,000007	<0,00001	5,9800	<0,000003
VIS-CV5-MS-217	Stérile	Métasédiment	0,6910	0,0087	0,0240	0,0024	0,000040	<0,00001	5,2400	<0,000003
VIS-CV5-MS-218	Stérile	Métasédiment	0,6370	0,0834	0,0290	0,0029	0,000018	<0,00001	4,9000	<0,000003
VIS-CV5-MS-219	Stérile	Métasédiment	0,5700	0,0572	0,0260	0,0026	<0,000007	<0,00001	5,3000	<0,000003
VIS-CV5-MS-220	Stérile	Métasédiment	0,3260	0,0009	0,0480	0,0030	<0,000007	<0,00001	2,2200	<0,000003
VIS-CV5-MS-221	Stérile	Métasédiment	0,2180	0,0024	0,0220	0,0061	<0,000007	<0,00001	6,4200	<0,000003
VIS-CV5-MS-222	Stérile	Métasédiment	0,6410	0,0054	0,0280	0,0021	0,000029	<0,00001	5,4900	<0,000003
VIS-CV5-MS-223	Stérile	Métasédiment	0,7760	0,0723	0,0350	0,0028	0,000019	<0,00001	3,0500	<0,000003
VIS-CV5-MS-224	Stérile	Métasédiment	0,4530	0,0127	0,0350	0,0026	0,000021	0,00002	2,1700	0,000010
VIS-CV5-MS-225	Stérile	Métasédiment	0,6630	0,0922	0,0270	0,0022	0,000023	<0,00001	5,0100	<0,000003
VIS-CV5-MS-226	Stérile	Métasédiment	0,4370	0,0046	0,0340	0,0005	<0,000007	<0,00001	6,3400	<0,000003
VIS-CV5-MS-227	Stérile	Métasédiment	0,0120	0,0011	0,0360	0,0015	<0,000007	<0,00001	4,7700	<0,000003
VIS-CV5-MS-228	Stérile	Métasédiment	0,4630	0,0624	0,0320	0,0018	0,000008	<0,00001	4,7200	<0,000003
VIS-CV5-MS-229	Stérile	Métasédiment	0,4910	0,0026	0,0220	0,0029	<0,000007	<0,00001	7,7100	<0,000003
VIS-CV5-MS-230	Stérile	Métasédiment	0,4560	0,0241	0,0430	0,0013	0,000037	<0,00001	7,4400	<0,000003
VIS-CV5-MS-231	Stérile	Métasédiment	0,0750	0,0002	0,0290	0,0017	<0,000007	<0,00001	4,3200	<0,000003
VIS-CV5-MS-232	Stérile	Métasédiment	0,5370	0,0267	0,0370	0,0016	0,000080	<0,00001	1,0500	0,000004
VIS-CV5-MS-233	Stérile	Métasédiment	0,6440	0,0210	0,0350	0,0015	0,000066	<0,00001	0,9900	<0,000003
VIS-CV5-MS-234	Stérile	Métasédiment	0,6690	0,0093	0,0290	0,0029	0,000019	0,00004	3,2700	0,000004
VIS-CV5-MS-235	Stérile	Métasédiment	0,6700	0,0262	0,0300	0,0024	0,000020	<0,00001	4,6100	<0,000003
VIS-CV5-MS-236	Stérile	Métasédiment	0,7970	0,0021	0,0250	0,0018	0,000023	<0,00001	4,7200	<0,000003
VIS-CV5-MS-237	Stérile	Métasédiment	0,6900	0,0029	0,0550	0,0032	0,000058	<0,00001	1,6800	<0,000003
VIS-CV5-MS-238	Stérile	Métasédiment	0,6960	0,0140	0,0300	0,0016	<0,000007	<0,00001	5,1800	<0,000003
VIS-CV5-MS-239	Stérile	Métasédiment	0,6250	0,0051	0,0230	0,0009	<0,000007	<0,00001	6,0200	<0,000003
VIS-CV5-MS-240	Stérile	Métasédiment	0,6540	0,0017	0,0230	0,0029	<0,000007	<0,00001	4,4300	<0,000003
VIS-CV5-MS-241	Stérile	Métasédiment	0,5480	0,0070	0,0410	0,0029	0,000060	<0,00001	2,0800	<0,000003
VIS-CV5-MS-242	Stérile	Métasédiment	0,6280	0,0095	0,0250	0,0020	0,000010	<0,00001	5,3900	<0,000003
VIS-CV5-MS-243	Stérile	Métasédiment	0,4610	0,0091	0,0270	0,0009	0,000016	<0,00001	5,4300	<0,000003
VIS-CV5-MS-244	Stérile	Métasédiment	0,7820	0,1050	0,0300	0,0030	0,000014	<0,00001	5,2900	<0,000003
VIS-CV5-MS-245	Stérile	Métasédiment	0,9860	0,0099	0,0290	0,0033	0,000014	<0,00001	4,6200	<0,000003
VIS-CV5-MS-246	Stérile	Métasédiment	0,7470	0,0123	0,0270	0,0029	0,000039	<0,00001	4,2200	<0,000003
VIS-CV5-MS-247	Stérile	Métasédiment	0,7320	0,0446	0,0320	0,0029	0,000023	<0,00001	3,3300	0,000008
VIS-CV5-MS-248	Stérile	Métasédiment	0,6370	0,0192	0,0240	0,0011	<0,000007	<0,00001	5,1300	<0,000003
VIS-CV5-MS-249	Stérile	Métasédiment	0,7290	0,0169	0,0240	0,0026	0,000016	<0,00001	4,6800	<0,000003
VIS-CV5-MS-250	Stérile	Métasédiment	0,3380	0,0033	0,0210	0,0003	<0,000007	<0,00001	6,9200	<0,000003
VIS-CV5-MS-251	Stérile	Métasédiment	0,8060	0,0069	0,0310	0,0025	0,000016	<0,00001	4,7700	<0,000003
VIS-CV5-MS-252	Stérile	Métasédiment	0,4540	0,0127	0,0590	0,0008	0,000102	0,00003	6,1900	<0,000003
VIS-CV5-MS-253	Stérile	Métasédiment	0,0220	0,0005	0,0320	0,0019	<0,000007	<0,00001	8,1400	<0,000003
VIS-CV5-MS-254	Stérile	Métasédiment	0,9160	0,0706	0,0400	0,0042	0,000034	<0,00001	4,3900	<0,000003
VIS-CV5-MS-255	Stérile	Métasédiment	0,8950	0,0407	0,0300	0,0035	0,000015	<0,00001	5,6900	<0,000003
VIS-CV5-MS-256	Stérile	Métasédiment	0,9530	0,0040	0,0330	0,0042	0,000009	<0,00001	4,3900	<0,000003
VIS-CV5-MS-257	Stérile	Métasédiment	0,9200	0,0022	0,0170	0,0015	<0,000007	<0,00001	6,5100	<0,000003
VIS-CV5-MS-258	Stérile	Métasédiment	0,5770	0,0396	0,0340	0,0036	<0,000007	<0,00001	5,0700	<0,000003
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,7850	0,0217	0,1040	0,0023	0,000128	<0,00001	6,1100	<0,000003
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,4710	0,0130	0,0080	0,0007	0,000106	0,00114	4,2500	<0,000003
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,3100	0,0106	0,0460	0,0017	0,000159	0,00013	1,9700	<0,000003
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,2070	0,0514	0,0120	0,0008	0,000066	<0,00001	1,8100	0,000005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,1450	0,0176	0,0120	0,0008	0,000075	0,00005	1,0500	0,000005
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,4280	0,0420	0,0400	0,0006	0,000220	0,00002	1,6900	<0,000003
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,9320	0,0227	0,0270	0,0013	0,000167	0,00002	4,7300	<0,000003
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,6410	0,0090	0,0310	0,0015	0,001080	0,00034	4,3300	<0,000003
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,6260	0,0094	0,0390	0,0010	0,001580	0,00138	2,7400	0,000004
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,3840	0,0063	0,0260	0,0009	0,001320	0,00012	6,1000	<0,000003
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,7080	0,0125	0,0430	0,0006	0,000216	0,00012	2,2200	0,000005
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,4870	0,0420	0,0190	0,0006	0,000132	<0,00001	6,2200	0,000005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,6590	0,0303	0,0350	0,0009	0,000378	<0,00001	1,8900	0,000011
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,6950	0,0120	0,0480	0,0010	0,004850	<0,00001	0,7900	<0,000003
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,4050	0,0226	0,0400	0,0016	0,001210	0,00016	1,9300	0,000013
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,2960	0,1580	0,0390	0,0006	0,000103	0,00031	6,0600	<0,000003
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	1,1900	0,0083	0,0380	0,0013	0,002530	0,00693	2,8600	0,000010
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,7170	0,0495	0,0490	0,0012	0,000311	0,00006	0,8400	0,000011
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,8460	0,0270	0,0410	0,0014	0,000276	0,00154	2,8700	0,000004
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,6380	0,0062	0,0540	0,0012	0,001045	0,00002	0,6500	<0,000003
VIS-CV5-UM-279	Stérile	Ultramafique	0,0260	0,0369	0,0040	0,0001	<0,000007	<0,00001	6,3100	<0,000003
VIS-CV5-UM-280	Stérile	Ultramafique	0,0380	0,1360	0,0050	0,0002	<0,000007	0,00002	6,4500	<0,000003

Essais SPLP

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-MS-211	Stérile	Métasédiment	0,0004	0,00120	<0,001	0,305	2,6600	0,1240	0,4300	0,0095
VIS-CV5-MS-212	Stérile	Métasédiment	0,0001	0,00036	<0,001	0,119	2,4400	0,1290	0,2860	0,0051
VIS-CV5-MS-213	Stérile	Métasédiment	0,0000	0,00013	<0,001	0,096	3,1100	0,0877	0,3150	0,0020
VIS-CV5-MS-214	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,146	1,8400	0,0523	0,5220	0,0034
VIS-CV5-MS-215	Stérile	Métasédiment	0,0002	0,00093	<0,001	0,175	0,4940	0,2060	0,7120	0,0027
VIS-CV5-MS-216	Stérile	Métasédiment	0,0000	0,00021	<0,001	0,029	0,6550	0,0754	0,6490	0,0006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,152	1,8500	0,0636	0,2610	0,0040
VIS-CV5-MS-218	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,180	2,6600	0,0544	0,2700	0,0042
VIS-CV5-MS-219	Stérile	Métasédiment	0,0000	0,00009	<0,001	0,060	3,5800	0,1250	0,3200	0,0014
VIS-CV5-MS-220	Stérile	Métasédiment	0,0001	0,00026	<0,001	0,116	1,9700	0,0044	0,2170	0,0012
VIS-CV5-MS-221	Stérile	Métasédiment	0,0000	0,00020	<0,001	0,068	0,7330	0,0137	0,6290	0,0024
VIS-CV5-MS-222	Stérile	Métasédiment	0,0000	0,00027	<0,001	0,062	1,4600	0,0449	0,3860	0,0025
VIS-CV5-MS-223	Stérile	Métasédiment	0,0002	0,00176	<0,001	0,163	3,0500	0,0787	0,5740	0,0018
VIS-CV5-MS-224	Stérile	Métasédiment	0,0001	0,00045	<0,001	0,107	2,8000	0,0322	0,4880	0,0026
VIS-CV5-MS-225	Stérile	Métasédiment	0,0002	0,00020	<0,001	0,073	0,5490	0,0236	0,4700	0,0011
VIS-CV5-MS-226	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,015	0,2550	0,0150	0,3960	0,0005
VIS-CV5-MS-227	Stérile	Métasédiment	0,0001	<0,00008	<0,001	0,007	1,2200	0,0491	1,1500	0,0194
VIS-CV5-MS-228	Stérile	Métasédiment	0,0001	0,00162	<0,001	0,172	2,1800	0,0734	0,7200	0,0036
VIS-CV5-MS-229	Stérile	Métasédiment	0,0001	0,00064	<0,001	0,144	1,8300	0,0252	0,6900	0,0036
VIS-CV5-MS-230	Stérile	Métasédiment	0,0002	0,00025	<0,001	0,090	0,5490	0,0129	0,5280	0,0018
VIS-CV5-MS-231	Stérile	Métasédiment	0,0000	0,00039	<0,001	0,053	1,9900	0,0177	0,4740	0,0025
VIS-CV5-MS-232	Stérile	Métasédiment	0,0003	0,00057	<0,001	0,220	1,7700	0,0572	0,6670	0,0053
VIS-CV5-MS-233	Stérile	Métasédiment	0,0002	0,00033	<0,001	0,236	1,6000	0,0670	0,6950	0,0040
VIS-CV5-MS-234	Stérile	Métasédiment	0,0002	0,00044	<0,001	0,237	2,2000	0,0861	0,4090	0,0041
VIS-CV5-MS-235	Stérile	Métasédiment	0,0001	0,00008	<0,001	0,189	1,6200	0,0652	0,3470	0,0044
VIS-CV5-MS-236	Stérile	Métasédiment	0,0000	0,00050	<0,001	0,121	1,1800	0,0052	0,3770	0,0025
VIS-CV5-MS-237	Stérile	Métasédiment	0,0001	0,00058	<0,001	0,135	1,7700	0,0048	0,3690	0,0028
VIS-CV5-MS-238	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,097	2,4800	0,0700	0,3630	0,0023
VIS-CV5-MS-239	Stérile	Métasédiment	0,0000	0,00022	<0,001	0,058	0,5360	0,0262	0,5110	0,0012
VIS-CV5-MS-240	Stérile	Métasédiment	0,0001	0,00041	<0,001	0,207	2,9400	0,0565	0,3860	0,0069
VIS-CV5-MS-241	Stérile	Métasédiment	0,0002	0,00056	<0,001	0,310	2,9500	0,0981	0,4430	0,0082
VIS-CV5-MS-242	Stérile	Métasédiment	0,0000	0,00017	<0,001	0,095	2,0800	0,0404	0,3060	0,0022
VIS-CV5-MS-243	Stérile	Métasédiment	0,0001	0,00035	<0,001	0,079	0,3210	0,0184	0,5270	0,0016
VIS-CV5-MS-244	Stérile	Métasédiment	0,0002	0,00017	<0,001	0,260	2,8700	0,0721	0,3560	0,0044
VIS-CV5-MS-245	Stérile	Métasédiment	0,0002	0,00026	<0,001	0,444	3,5700	0,1000	0,4390	0,0098
VIS-CV5-MS-246	Stérile	Métasédiment	0,0001	0,00021	<0,001	0,253	1,9600	0,0771	0,3310	0,0074
VIS-CV5-MS-247	Stérile	Métasédiment	0,0002	0,00027	<0,001	0,394	2,7400	0,1800	0,3750	0,0154
VIS-CV5-MS-248	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,043	2,8800	0,1100	0,3280	0,0008
VIS-CV5-MS-249	Stérile	Métasédiment	0,0001	0,00013	<0,001	0,215	2,7400	0,1630	0,3990	0,0054
VIS-CV5-MS-250	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,049	0,0890	0,0029	0,3640	0,0006
VIS-CV5-MS-251	Stérile	Métasédiment	0,0001	<0,00008	<0,001	0,137	1,7500	0,0199	0,4610	0,0035
VIS-CV5-MS-252	Stérile	Métasédiment	0,0000	0,00014	<0,001	0,031	0,4290	0,0320	0,4890	0,0009
VIS-CV5-MS-253	Stérile	Métasédiment	0,0000	<0,00008	<0,001	0,008	1,4600	0,0455	0,4210	0,0071
VIS-CV5-MS-254	Stérile	Métasédiment	0,0002	0,00112	<0,001	0,261	3,1900	0,0963	0,5040	0,0077
VIS-CV5-MS-255	Stérile	Métasédiment	0,0001	0,00053	<0,001	0,159	2,0300	0,0655	0,3610	0,0049
VIS-CV5-MS-256	Stérile	Métasédiment	0,0001	0,00088	<0,001	0,303	2,4500	0,0607	0,4380	0,0055
VIS-CV5-MS-257	Stérile	Métasédiment	0,0000	0,00018	<0,001	0,008	1,0400	0,0036	0,1100	0,0006
VIS-CV5-MS-258	Stérile	Métasédiment	0,0004	0,00023	<0,001	0,277	2,3900	0,0105	0,4050	0,0033
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0000	0,00017	<0,001	0,064	0,4330	0,0157	0,3490	0,0017
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0000	0,00022	<0,001	0,026	2,5100	0,0415	0,2900	0,0064
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0001	<0,00008	<0,001	0,122	0,6880	0,0510	0,4400	0,0047
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0000	0,00019	<0,001	0,027	0,4290	0,0284	0,0500	0,0071
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,018	1,0000	0,0308	0,0920	0,0037
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0000	0,00086	<0,001	0,026	0,1080	0,0123	0,0740	0,0027
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0002	0,00012	<0,001	0,046	0,2600	0,0205	0,1440	0,0049
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0001	0,00111	<0,001	0,041	1,7200	0,0334	0,2780	0,0046
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0000	0,00075	<0,001	0,046	1,3000	0,0759	0,2180	0,0253
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0000	0,00040	<0,001	0,038	0,5780	0,0232	0,2660	0,0033
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,046	0,9830	0,0336	0,0970	0,0193
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0005	0,00011	<0,001	0,049	0,0760	0,0105	0,2080	0,0018
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0000	0,00016	<0,001	0,015	1,4800	0,0286	0,1440	0,0103
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0000	0,00016	<0,001	0,065	0,8460	0,0044	0,1700	0,0036
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0000	0,00019	<0,001	0,040	1,5800	0,0096	0,1260	0,0058
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0000	0,00012	<0,001	0,020	0,1250	0,0155	0,5040	0,0005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0001	<0,00008	<0,001	0,040	1,6300	0,0348	0,1770	0,0106
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0000	<0,00008	<0,001	0,043	2,0100	0,0304	0,1080	0,0059
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0001	0,00017	<0,001	0,019	2,6300	0,0269	0,1540	0,0050
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0001	0,00014	<0,001	0,098	1,0400	0,0040	0,1210	0,0082
VIS-CV5-UM-279	Stérile	Ultramafique	0,0000	0,00096	<0,001	0,007	0,0370	0,0005	3,5700	0,0003
VIS-CV5-UM-280	Stérile	Ultramafique	0,0000	0,00151	<0,001	0,007	0,0420	0,0005	1,9200	0,0006

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-MS-211	Stérile	Métasédiment	<0,0004	5,0700	0,0022	0,0090	0,00040	0,0728	0,00016	0,00013
VIS-CV5-MS-212	Stérile	Métasédiment	0,0039	5,2700	0,0005	0,0050	0,00051	0,0538	0,00013	0,00030
VIS-CV5-MS-213	Stérile	Métasédiment	0,0008	4,6300	0,0001	0,0030	<0,00009	0,0017	<0,00004	<0,00006
VIS-CV5-MS-214	Stérile	Métasédiment	0,0017	5,0400	0,0002	0,0030	0,00012	0,0031	<0,00004	<0,00006
VIS-CV5-MS-215	Stérile	Métasédiment	<0,0004	5,3800	0,0005	0,0170	0,00016	0,0083	0,00012	0,00008
VIS-CV5-MS-216	Stérile	Métasédiment	<0,0004	4,8700	0,0003	0,0030	<0,00009	0,0080	0,00014	<0,00006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0010	5,0900	<0,0001	0,0130	0,00024	0,0023	0,00005	0,00039
VIS-CV5-MS-218	Stérile	Métasédiment	0,0025	5,2000	<0,0001	0,0120	0,00020	0,0030	<0,00004	<0,00006
VIS-CV5-MS-219	Stérile	Métasédiment	0,0064	5,5900	<0,0001	0,0030	<0,00009	0,0107	<0,00004	0,00024
VIS-CV5-MS-220	Stérile	Métasédiment	<0,0004	5,2900	0,0002	0,0030	0,00020	0,0009	<0,00004	0,00007
VIS-CV5-MS-221	Stérile	Métasédiment	<0,0004	4,8700	0,0001	0,0030	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-222	Stérile	Métasédiment	0,0005	4,7900	0,0002	0,0030	<0,00009	0,0017	<0,00004	0,00007
VIS-CV5-MS-223	Stérile	Métasédiment	<0,0004	4,3100	0,0012	0,0030	<0,00009	0,0152	0,00007	0,00006
VIS-CV5-MS-224	Stérile	Métasédiment	0,0012	5,3900	0,0005	0,0030	0,00020	0,0209	0,00018	0,00009
VIS-CV5-MS-225	Stérile	Métasédiment	<0,0004	5,2900	0,0004	0,0030	<0,00009	0,0040	<0,00004	0,00023
VIS-CV5-MS-226	Stérile	Métasédiment	<0,0004	4,8400	0,0001	0,0030	<0,00009	0,0027	0,00007	<0,00006
VIS-CV5-MS-227	Stérile	Métasédiment	<0,0004	4,2600	0,0007	0,0030	<0,00009	0,0025	<0,00004	<0,00006
VIS-CV5-MS-228	Stérile	Métasédiment	0,0006	4,7500	0,0007	0,0030	0,00011	0,0069	<0,00004	0,00011
VIS-CV5-MS-229	Stérile	Métasédiment	<0,0004	5,3700	0,0004	0,0030	0,00033	0,0009	0,00016	<0,00006
VIS-CV5-MS-230	Stérile	Métasédiment	0,0027	5,4300	0,0005	0,0200	0,00016	0,0076	0,00045	0,00007
VIS-CV5-MS-231	Stérile	Métasédiment	<0,0004	3,8900	0,0011	0,0030	0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-232	Stérile	Métasédiment	<0,0004	5,4700	0,0008	0,0030	0,00025	0,0459	<0,00004	0,00023
VIS-CV5-MS-233	Stérile	Métasédiment	0,0005	5,7800	0,0003	0,0030	<0,00009	0,0045	<0,00004	0,00009
VIS-CV5-MS-234	Stérile	Métasédiment	<0,0004	5,0600	0,0003	0,0030	0,00027	0,0029	0,00007	0,00007
VIS-CV5-MS-235	Stérile	Métasédiment	0,0008	5,8600	<0,0001	0,0110	0,00030	0,0056	<0,00004	0,00015
VIS-CV5-MS-236	Stérile	Métasédiment	0,0014	6,4300	<0,0001	0,0080	0,00021	0,0009	<0,00004	<0,00006
VIS-CV5-MS-237	Stérile	Métasédiment	0,0014	6,8300	<0,0001	0,0190	0,00011	0,0011	<0,00004	<0,00006
VIS-CV5-MS-238	Stérile	Métasédiment	<0,0004	5,2200	0,0002	0,0060	<0,00009	0,0068	<0,00004	<0,00006
VIS-CV5-MS-239	Stérile	Métasédiment	<0,0004	4,9800	0,0003	0,0050	<0,00009	0,0149	<0,00004	<0,00006
VIS-CV5-MS-240	Stérile	Métasédiment	<0,0004	4,3600	0,0002	0,0030	0,00022	0,0011	<0,00004	<0,00006
VIS-CV5-MS-241	Stérile	Métasédiment	0,0005	5,2400	0,0004	0,0040	0,00017	0,0082	<0,00004	0,00021
VIS-CV5-MS-242	Stérile	Métasédiment	<0,0004	4,7300	0,0001	0,0050	<0,00009	0,0034	<0,00004	<0,00006
VIS-CV5-MS-243	Stérile	Métasédiment	0,0005	5,1400	0,0002	0,0030	<0,00009	0,0028	0,00005	<0,00006
VIS-CV5-MS-244	Stérile	Métasédiment	<0,0004	5,0000	0,0003	0,0120	0,00028	0,0032	<0,00004	0,00014
VIS-CV5-MS-245	Stérile	Métasédiment	<0,0004	5,2300	0,0003	0,0140	0,00043	0,0028	<0,00004	<0,00006
VIS-CV5-MS-246	Stérile	Métasédiment	0,0023	5,3500	0,0002	0,0050	0,00058	0,0036	0,00004	0,00011
VIS-CV5-MS-247	Stérile	Métasédiment	<0,0004	5,6100	0,0002	0,0170	0,00091	0,0140	0,00005	0,00012
VIS-CV5-MS-248	Stérile	Métasédiment	<0,0004	4,8900	<0,0001	0,0050	<0,00009	0,0060	<0,00004	<0,00006
VIS-CV5-MS-249	Stérile	Métasédiment	<0,0004	4,9400	<0,0001	0,0040	0,00019	0,0054	<0,00004	<0,00006
VIS-CV5-MS-250	Stérile	Métasédiment	0,0006	4,7400	<0,0001	0,0060	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-251	Stérile	Métasédiment	0,0011	5,1100	0,0002	0,0110	0,00015	0,0014	<0,00004	0,00011
VIS-CV5-MS-252	Stérile	Métasédiment	<0,0004	5,9300	0,0001	0,0290	<0,00009	0,0070	0,00010	0,00011
VIS-CV5-MS-253	Stérile	Métasédiment	0,0005	4,2600	0,0009	0,0030	<0,00009	0,0011	<0,00004	<0,00006
VIS-CV5-MS-254	Stérile	Métasédiment	<0,0004	5,1600	0,0007	0,0050	0,00014	0,0359	0,00008	0,00008
VIS-CV5-MS-255	Stérile	Métasédiment	0,0006	5,0300	0,0004	0,0040	0,00010	0,0152	<0,00004	0,00006
VIS-CV5-MS-256	Stérile	Métasédiment	<0,0004	5,7300	0,0003	0,0070	0,00013	0,0074	<0,00004	0,00048
VIS-CV5-MS-257	Stérile	Métasédiment	<0,0004	1,2700	<0,0001	0,0090	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-MS-258	Stérile	Métasédiment	<0,0004	4,6500	0,0004	0,0030	0,00029	0,0012	0,00004	<0,00006
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	<0,0004	5,4000	0,0002	0,0080	0,00018	0,0104	0,00011	<0,00006
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0019	1,2000	<0,0001	0,0670	0,00010	0,0022	<0,00004	0,00019
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	<0,0004	5,3800	<0,0001	0,0180	0,00015	0,0025	<0,00004	0,00088
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0008	2,4600	<0,0001	0,0500	0,00010	0,0076	<0,00004	0,00018
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	<0,0004	2,1900	<0,0001	0,0570	0,00009	0,0076	0,00009	0,00051
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0006	6,7000	<0,0001	0,0460	0,00029	0,0060	<0,00004	0,00092
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	<0,0004	6,0400	<0,0001	0,0360	0,00034	0,0040	<0,00004	0,00091
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0014	6,4900	<0,0001	0,0730	0,00055	0,0020	<0,00004	0,00098
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0012	6,2600	<0,0001	0,2310	0,00033	0,0020	<0,00004	0,00136
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0013	5,8700	<0,0001	0,0830	0,00015	0,0015	<0,00004	0,00027
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	<0,0004	5,6400	<0,0001	0,0570	0,00091	0,0059	<0,00004	0,00084
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	<0,0004	5,0500	0,0002	0,0150	0,00651	0,0018	<0,00004	0,00014
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	<0,0004	4,2800	<0,0001	0,1460	0,00014	0,0044	<0,00004	0,00074
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	<0,0004	6,5400	<0,0001	0,0590	0,00011	0,0028	<0,00004	0,00124
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	<0,0004	5,6000	<0,0001	0,0710	0,00049	0,0035	0,00007	0,00235
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0011	6,8000	<0,0001	0,0430	0,00048	0,0109	0,00005	0,00065
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	<0,0004	6,5900	<0,0001	0,1150	0,00052	0,0026	<0,00004	0,00146
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	<0,0004	6,2700	<0,0001	0,0910	0,00019	0,0066	<0,00004	0,00070
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	<0,0004	6,3600	<0,0001	0,0880	0,00038	0,0029	<0,00004	0,00055
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	<0,0004	5,8200	<0,0001	0,1330	0,00015	0,0010	<0,00004	0,00194
VIS-CV5-UM-279	Stérile	Ultramafique	<0,0004	0,1000	0,0002	0,0050	<0,00009	0,0009	<0,00004	<0,00006
VIS-CV5-UM-280	Stérile	Ultramafique	<0,0004	0,1600	0,0002	0,0060	<0,00009	0,0205	<0,00004	<0,00006

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# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-MS-211	Stérile	Métasédiment	0,0054	0,0246	0,000159	0,000423	0,00155	<0,002
VIS-CV5-MS-212	Stérile	Métasédiment	0,0088	0,0115	0,000107	0,000399	0,00158	<0,002
VIS-CV5-MS-213	Stérile	Métasédiment	0,0134	0,0086	0,000008	0,000044	0,00156	<0,002
VIS-CV5-MS-214	Stérile	Métasédiment	0,0087	0,0075	0,000041	0,000123	0,00038	<0,002
VIS-CV5-MS-215	Stérile	Métasédiment	0,0177	0,0115	0,000037	0,000030	0,00251	<0,002
VIS-CV5-MS-216	Stérile	Métasédiment	0,0232	0,0015	0,000010	0,000017	0,00254	<0,002
VIS-CV5-MS-217	Stérile	Métasédiment	0,0071	0,0125	0,000114	0,000176	0,00084	<0,002
VIS-CV5-MS-218	Stérile	Métasédiment	0,0077	0,0194	0,000024	0,000258	0,00076	<0,002
VIS-CV5-MS-219	Stérile	Métasédiment	0,0109	0,0063	0,000010	0,000193	0,00272	<0,002
VIS-CV5-MS-220	Stérile	Métasédiment	0,0074	0,0132	0,000006	0,000208	0,00080	<0,002
VIS-CV5-MS-221	Stérile	Métasédiment	0,0067	0,0027	<0,000005	0,000035	0,00099	<0,002
VIS-CV5-MS-222	Stérile	Métasédiment	0,0092	0,0055	0,000028	0,000055	0,00159	<0,002
VIS-CV5-MS-223	Stérile	Métasédiment	0,0042	0,0127	0,000040	0,000029	0,00150	<0,002
VIS-CV5-MS-224	Stérile	Métasédiment	0,0040	0,0130	0,000034	0,000108	0,00077	<0,003
VIS-CV5-MS-225	Stérile	Métasédiment	0,0045	0,0079	0,000008	0,000106	0,00169	<0,002
VIS-CV5-MS-226	Stérile	Métasédiment	0,0160	0,0005	<0,000005	0,000056	0,00318	<0,002
VIS-CV5-MS-227	Stérile	Métasédiment	0,0058	0,0002	0,000011	0,000017	0,00009	<0,002
VIS-CV5-MS-228	Stérile	Métasédiment	0,0056	0,0069	0,000026	0,000029	0,00328	<0,002
VIS-CV5-MS-229	Stérile	Métasédiment	0,0087	0,0039	<0,000005	0,000011	0,00198	<0,002
VIS-CV5-MS-230	Stérile	Métasédiment	0,0117	0,0023	0,000007	0,000275	0,00549	<0,002
VIS-CV5-MS-231	Stérile	Métasédiment	0,0061	0,0024	0,000014	0,000033	0,00017	<0,002
VIS-CV5-MS-232	Stérile	Métasédiment	0,0030	0,0119	0,000051	0,000058	0,00200	<0,002
VIS-CV5-MS-233	Stérile	Métasédiment	0,0035	0,0109	0,000021	0,000024	0,00195	<0,002
VIS-CV5-MS-234	Stérile	Métasédiment	0,0060	0,0146	0,000034	0,000084	0,00134	<0,002
VIS-CV5-MS-235	Stérile	Métasédiment	0,0094	0,0115	0,000051	0,000092	0,00132	<0,002
VIS-CV5-MS-236	Stérile	Métasédiment	0,0059	0,0126	0,000006	0,000092	0,00351	<0,002
VIS-CV5-MS-237	Stérile	Métasédiment	0,0038	0,0086	0,000012	0,000307	0,00339	<0,002
VIS-CV5-MS-238	Stérile	Métasédiment	0,0083	0,0073	0,000014	0,000048	0,00296	<0,002
VIS-CV5-MS-239	Stérile	Métasédiment	0,0094	0,0034	<0,000005	0,000007	0,00319	<0,002
VIS-CV5-MS-240	Stérile	Métasédiment	0,0070	0,0154	0,000017	0,000154	0,00178	<0,002
VIS-CV5-MS-241	Stérile	Métasédiment	0,0046	0,0231	0,000094	0,000147	0,00144	<0,002
VIS-CV5-MS-242	Stérile	Métasédiment	0,0104	0,0065	0,000010	0,000034	0,00203	<0,002
VIS-CV5-MS-243	Stérile	Métasédiment	0,0073	0,0033	0,000005	0,000041	0,00223	<0,002
VIS-CV5-MS-244	Stérile	Métasédiment	0,0062	0,0166	0,000031	0,000037	0,00292	<0,002
VIS-CV5-MS-245	Stérile	Métasédiment	0,0084	0,0395	0,000052	0,000127	0,00533	<0,004
VIS-CV5-MS-246	Stérile	Métasédiment	0,0068	0,0176	0,000129	0,000149	0,00143	<0,002
VIS-CV5-MS-247	Stérile	Métasédiment	0,0071	0,0260	0,000122	0,000117	0,00241	<0,002
VIS-CV5-MS-248	Stérile	Métasédiment	0,0075	0,0031	0,000007	0,000029	0,00146	<0,002
VIS-CV5-MS-249	Stérile	Métasédiment	0,0126	0,0155	0,000037	0,000071	0,00220	<0,002
VIS-CV5-MS-250	Stérile	Métasédiment	0,0048	0,0011	<0,000005	0,000053	0,00027	<0,002
VIS-CV5-MS-251	Stérile	Métasédiment	0,0093	0,0081	0,000028	0,000032	0,00214	<0,002
VIS-CV5-MS-252	Stérile	Métasédiment	0,0088	0,0024	0,000027	0,000069	0,00242	<0,002
VIS-CV5-MS-253	Stérile	Métasédiment	0,0092	0,0002	<0,000005	0,000006	0,00008	<0,002
VIS-CV5-MS-254	Stérile	Métasédiment	0,0154	0,0180	0,000062	0,000103	0,00339	<0,002
VIS-CV5-MS-255	Stérile	Métasédiment	0,0083	0,0124	0,000018	0,000128	0,00306	<0,002
VIS-CV5-MS-256	Stérile	Métasédiment	0,0064	0,0183	0,000013	0,000077	0,00373	<0,002
VIS-CV5-MS-257	Stérile	Métasédiment	0,0100	0,0017	<0,000005	0,001031	0,00270	<0,002
VIS-CV5-MS-258	Stérile	Métasédiment	0,0094	0,0164	0,000020	0,000192	0,00181	<0,002
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0102	0,0044	0,000024	0,000452	0,00113	<0,002
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0080	0,0002	0,000256	0,000113	0,00041	<0,002
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0067	0,0005	0,000118	0,000122	0,00045	<0,002
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0070	0,0001	0,000062	0,025800	0,00018	<0,002
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0049	0,0002	0,000054	0,000381	0,00014	<0,002
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0028	0,0008	0,000030	0,013600	0,00032	<0,002
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0068	0,0006	0,000039	0,019600	0,00012	<0,002
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0086	0,0003	0,000355	0,000144	0,00062	<0,002
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0055	0,0010	0,000358	0,000100	0,00043	<0,002
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0112	0,0002	0,000069	0,000141	0,00025	<0,002
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0056	0,0009	0,000269	0,010200	0,00017	<0,002
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0097	0,0003	0,000015	0,000375	0,00012	<0,002
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0083	0,0005	0,000348	0,000866	0,00012	<0,002
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0019	0,0013	0,000092	0,000840	0,00016	<0,002
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0032	0,0015	0,000284	0,000398	0,00053	<0,002
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0176	0,0002	0,000012	0,000256	0,00131	<0,002
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0047	0,0008	0,000566	0,002070	0,00033	<0,002
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0035	0,0009	0,000301	0,000694	0,00033	<0,002
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0049	0,0003	0,000460	0,000231	0,00023	<0,002
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0018	0,0023	0,000218	0,000530	0,00055	<0,002
VIS-CV5-UM-279	Stérile	Ultramafique	0,0078	0,0001	0,000005	0,000005	0,00100	<0,002
VIS-CV5-UM-280	Stérile	Ultramafique	0,0132	0,0001	0,000006	0,000011	0,00175	<0,002

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# échantillon	Type de matériel	Lithologie	pH final	pH	Conductivité	Alkalinité	Acidité	Chlore	Mercure	Argent
		Unité	pH unit	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l
		CVAA - Effet aigu						320	0,0014	0,00004
		D019/MDMER								
VIS-CV5-UM-281	Stérile	Ultramafique		7,75	56,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-282	Stérile	Ultramafique		7,87	41,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-283	Stérile	Ultramafique		8,30	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-284	Stérile	Ultramafique		8,04	51,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-285	Stérile	Ultramafique		7,79	50,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-286	Stérile	Ultramafique		7,77	50,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-287	Stérile	Ultramafique		7,74	63,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-288	Stérile	Ultramafique		7,69	49,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-289	Stérile	Ultramafique		8,16	50,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-290	Stérile	Ultramafique		7,92	45,0	23,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-291	Stérile	Ultramafique		8,37	71,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-292	Stérile	Ultramafique		7,87	49,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-293	Stérile	Ultramafique		7,89	45,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-294	Stérile	Ultramafique		7,87	51,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-295	Stérile	Ultramafique		8,16	46,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-296	Stérile	Ultramafique		8,04	51,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-297	Stérile	Ultramafique		7,80	50,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-298	Stérile	Ultramafique		7,76	46,0	16,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-299	Stérile	Ultramafique		7,80	52,0	21,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-300	Stérile	Ultramafique		7,86	56,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-301	Stérile	Ultramafique		7,94	51,0	22,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-302	Stérile	Ultramafique		7,86	51,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-303	Stérile	Ultramafique		7,93	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-304	Stérile	Ultramafique		8,71	73,0	34,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-305	Stérile	Ultramafique		8,28	58,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-306	Stérile	Ultramafique		8,65	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-307	Stérile	Ultramafique		7,75	64,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-308	Stérile	Ultramafique		8,05	61,0	25,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-309	Stérile	Ultramafique		8,23	66,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-310	Stérile	Ultramafique		7,96	68,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-311	Stérile	Ultramafique		8,26	69,0	29,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-312	Stérile	Ultramafique		8,50	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-313	Stérile	Ultramafique		9,34	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-314	Stérile	Ultramafique		9,46	66,0	36,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-315	Stérile	Ultramafique		8,96	70,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-316	Stérile	Ultramafique		9,42	75,0	34,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-317	Stérile	Ultramafique		9,25	61,0	33,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-318	Stérile	Ultramafique		9,41	66,0	28,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-319	Stérile	Ultramafique		9,23	73,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-320	Stérile	Ultramafique		9,31	71,0	30,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-321	Stérile	Ultramafique		9,28	63,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-322	Stérile	Ultramafique		9,00	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-323	Stérile	Ultramafique		8,93	65,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-324	Stérile	Ultramafique		9,06	68,0	35,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-325	Stérile	Ultramafique		8,81	64,0	27,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-UM-326	Stérile	Ultramafique		8,74	78,0	32,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-327	Minerai	Pegmatite spodumène		7,75	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-328	Minerai	Pegmatite spodumène		6,96	24,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-329	Minerai	Pegmatite spodumène		7,09	16,0	4,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-330	Minerai	Pegmatite spodumène		7,20	19,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-331	Minerai	Pegmatite spodumène		7,23	23,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène		7,19	22,0	6,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-333	Minerai	Pegmatite spodumène		7,31	20,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-334	Minerai	Pegmatite spodumène		7,34	27,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-335	Minerai	Pegmatite spodumène		7,90	47,0	20,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-336	Minerai	Pegmatite spodumène		7,15	20,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-337	Minerai	Pegmatite spodumène		6,95	16,0	3,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-338	Minerai	Pegmatite spodumène		6,98	24,0	7,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-339	Minerai	Pegmatite spodumène		7,24	18,0	5,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-340	Minerai	Pegmatite spodumène		7,64	38,0	14,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-341	Minerai	Pegmatite spodumène		7,63	30,0	10,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-342	Minerai	Pegmatite spodumène		7,91	45,0	17,0	<2,0	<20,0	<0,00001	<0,00005
VIS-CV5-SP-343	Minerai	Pegmatite spodumène		8,54	59,0	27,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MAG-C	Résidu	Magnétique		7,86	47,0	17,0	<2,0	<20,0	<0,00001	<0,00005
CV5-DMS-MID	Résidu	Middlings		7,11	30,0	9,0	<2,0	<20,0	<0,00001	<0,00005
CV5-FLO-C	Résidu	Flottation		7,05	26,0	7,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MAG-F	Résidu	Magnétique		7,93	43,0	16,0	<2,0	<20,0	<0,00001	<0,00005
CV5-MID-F	Résidu	Middlings		7,52	32,0	11,0	<2,0	<20,0	<0,00001	<0,00005
CV5-FLO-F	Résidu	Flottation		7,61	49,0	16,0	<2,0	<20,0	<0,00001	<0,00005
CV5-BYP-CP	Résidu	By-pass		8,33	67,0	27,0	<2,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Beryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,108	0,001			0,0002
		D019/MDMER		0,10						
VIS-CV5-UM-281	Stérile	Ultramafique	0,2430	0,6450	0,0070	0,0009	0,000011	0,00003	6,3600	<0,000003
VIS-CV5-UM-282	Stérile	Ultramafique	0,0710	0,4390	0,0020	0,0005	<0,000007	<0,00001	6,0300	<0,000003
VIS-CV5-UM-283	Stérile	Ultramafique	0,0570	0,3840	0,0140	0,0013	<0,000007	<0,00001	6,9700	<0,000003
VIS-CV5-UM-284	Stérile	Ultramafique	0,2110	0,1940	0,0090	0,0013	<0,000007	<0,00001	6,7100	<0,000003
VIS-CV5-UM-285	Stérile	Ultramafique	0,1990	0,2060	0,0020	0,0006	<0,000007	<0,00001	6,8100	<0,000003
VIS-CV5-UM-286	Stérile	Ultramafique	0,0140	2,7500	0,0070	0,0008	<0,000007	<0,00001	6,0100	<0,000003
VIS-CV5-UM-287	Stérile	Ultramafique	0,1790	0,6020	0,0050	0,0005	0,000013	<0,00001	8,6600	<0,000003
VIS-CV5-UM-288	Stérile	Ultramafique	0,1070	0,6440	0,0090	0,0005	0,000017	<0,00001	5,1400	<0,000003
VIS-CV5-UM-289	Stérile	Ultramafique	0,0960	0,4530	0,0080	0,0003	<0,000007	<0,00001	5,4600	<0,000003
VIS-CV5-UM-290	Stérile	Ultramafique	0,0600	0,1320	0,0020	0,0004	<0,000007	<0,00001	6,6000	<0,000003
VIS-CV5-UM-291	Stérile	Ultramafique	0,0370	1,5200	0,0300	0,0009	<0,000007	<0,00001	6,9300	<0,000003
VIS-CV5-UM-292	Stérile	Ultramafique	0,0390	1,0500	0,0020	0,0003	<0,000007	<0,00001	6,8600	<0,000003
VIS-CV5-UM-293	Stérile	Ultramafique	0,0500	0,0401	0,0020	0,0003	<0,000007	<0,00001	6,1000	<0,000003
VIS-CV5-UM-294	Stérile	Ultramafique	0,2500	0,0494	0,0020	0,0004	<0,000007	<0,00001	7,1000	<0,000003
VIS-CV5-UM-295	Stérile	Ultramafique	0,4570	0,0257	0,0030	0,0003	<0,000007	<0,00001	6,6300	<0,000003
VIS-CV5-UM-296	Stérile	Ultramafique	0,3700	0,1210	0,0020	0,0003	<0,000007	<0,00001	7,4400	<0,000003
VIS-CV5-UM-297	Stérile	Ultramafique	0,0280	0,8120	0,0020	0,0005	<0,000007	<0,00001	5,7600	<0,000003
VIS-CV5-UM-298	Stérile	Ultramafique	0,2150	1,0400	0,0090	0,0007	0,000018	<0,00001	3,9800	<0,000003
VIS-CV5-UM-299	Stérile	Ultramafique	0,3060	0,1250	0,0020	0,0004	0,000008	<0,00001	6,9700	<0,000003
VIS-CV5-UM-300	Stérile	Ultramafique	0,2430	0,2130	0,0020	0,0004	<0,000007	<0,00001	7,4400	<0,000003
VIS-CV5-UM-301	Stérile	Ultramafique	0,3790	0,1450	0,0070	0,0004	<0,000007	<0,00001	6,4100	<0,000003
VIS-CV5-UM-302	Stérile	Ultramafique	0,3470	0,0832	0,0080	0,0016	<0,000007	<0,00001	6,8200	<0,000003
VIS-CV5-UM-303	Stérile	Ultramafique	0,4930	0,0475	0,0300	0,0008	0,000053	<0,00001	5,8000	<0,000003
VIS-CV5-UM-304	Stérile	Ultramafique	0,3280	0,2480	0,0270	0,0006	<0,000007	<0,00001	6,8900	<0,000003
VIS-CV5-UM-305	Stérile	Ultramafique	0,2790	0,0785	0,0200	0,0011	<0,000007	<0,00001	5,9000	<0,000003
VIS-CV5-UM-306	Stérile	Ultramafique	0,3240	0,0694	0,0290	0,0011	<0,000007	<0,00001	6,6200	<0,000003
VIS-CV5-UM-307	Stérile	Ultramafique	0,2710	0,7830	0,0620	0,0019	0,000016	0,00003	5,2400	<0,000003
VIS-CV5-UM-308	Stérile	Ultramafique	0,0640	0,5770	0,0310	0,0010	0,000018	0,00002	5,3400	<0,000003
VIS-CV5-UM-309	Stérile	Ultramafique	0,1730	0,0355	0,0270	0,0011	<0,000007	<0,00001	6,2100	<0,000003
VIS-CV5-UM-310	Stérile	Ultramafique	0,1710	0,4600	0,0280	0,0010	<0,000007	<0,00001	6,6900	<0,000003
VIS-CV5-UM-311	Stérile	Ultramafique	0,0630	0,1790	0,0360	0,0008	<0,000007	<0,00001	5,8100	<0,000003
VIS-CV5-UM-312	Stérile	Ultramafique	0,1490	0,0786	0,0330	0,0014	<0,000007	<0,00001	4,1300	<0,000003
VIS-CV5-UM-313	Stérile	Ultramafique	0,0160	0,0443	0,0250	0,0005	<0,000007	<0,00001	5,8900	<0,000003
VIS-CV5-UM-314	Stérile	Ultramafique	0,3220	0,0208	0,0220	0,0009	<0,000007	<0,00001	6,1900	<0,000003
VIS-CV5-UM-315	Stérile	Ultramafique	0,2220	0,2180	0,0270	0,0012	0,000023	<0,00001	6,8700	<0,000003
VIS-CV5-UM-316	Stérile	Ultramafique	0,0050	0,1600	0,0270	0,0006	<0,000007	<0,00001	5,8800	<0,000003
VIS-CV5-UM-317	Stérile	Ultramafique	0,2070	0,1500	0,0230	0,0009	0,000013	<0,00001	6,5900	<0,000003
VIS-CV5-UM-318	Stérile	Ultramafique	0,2640	0,0351	0,0210	0,0009	<0,000007	<0,00001	6,7300	0,000004
VIS-CV5-UM-319	Stérile	Ultramafique	0,0060	0,3030	0,0330	0,0006	<0,000007	<0,00001	6,0400	<0,000003
VIS-CV5-UM-320	Stérile	Ultramafique	0,2810	0,3740	0,0350	0,0011	0,000044	<0,00001	5,1400	<0,000003
VIS-CV5-UM-321	Stérile	Ultramafique	0,3150	0,2210	0,0230	0,0008	0,000022	<0,00001	6,4300	<0,000003
VIS-CV5-UM-322	Stérile	Ultramafique	0,2870	0,0203	0,0210	0,0012	<0,000007	<0,00001	5,9800	<0,000003
VIS-CV5-UM-323	Stérile	Ultramafique	0,1830	0,0906	0,0220	0,0009	<0,000007	<0,00001	6,4100	<0,000003
VIS-CV5-UM-324	Stérile	Ultramafique	0,2450	0,1470	0,0240	0,0007	0,000069	<0,00001	6,5600	<0,000003
VIS-CV5-UM-325	Stérile	Ultramafique	0,1300	0,0917	0,0300	0,0011	0,000027	<0,00001	4,1600	<0,000003
VIS-CV5-UM-326	Stérile	Ultramafique	0,0980	0,0873	0,0660	0,0009	0,000011	<0,00001	5,8600	<0,000003
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,6710	0,0524	0,0590	0,0011	0,002730	0,00044	2,2000	<0,000003
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,1370	0,0363	0,0040	0,0002	0,000047	<0,00001	2,2100	<0,000003
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0910	0,1180	0,0110	0,0003	0,000063	<0,00001	0,3800	<0,000003
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0980	0,0944	0,0090	0,0002	0,000028	0,00052	0,9000	<0,000006
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,1950	0,1530	0,0120	0,0003	0,000027	<0,00001	1,7900	<0,000003
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,1200	0,0534	0,0090	0,0002	0,000029	<0,00001	1,8300	<0,000003
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,1190	0,1390	0,0180	0,0002	0,000031	<0,00001	0,8000	<0,000003
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,2540	0,0188	0,0070	0,0003	0,000027	<0,00001	2,2800	<0,000003
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	1,2100	0,0105	0,0600	0,0030	0,001803	0,00018	1,6200	<0,000003
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0900	0,0683	0,0060	0,0003	0,000011	<0,00001	1,5800	0,000003
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0980	0,0859	0,0150	0,0003	0,000067	0,00002	0,9500	0,000007
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,1320	0,0420	0,0060	0,0003	0,000040	0,00052	1,8600	0,000009
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0940	0,0753	0,0100	0,0002	0,000038	0,00001	1,4900	<0,000003
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,5560	0,0132	0,0050	0,0003	0,000071	0,00046	4,5200	<0,000003
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,4760	0,0076	0,0060	0,0003	0,000076	0,00015	2,4300	0,000004
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,6320	0,0121	0,0060	0,0004	0,000044	0,00005	5,9100	<0,000003
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,7190	0,0091	0,0300	0,0014	0,000239	0,00019	5,8300	0,000006
CV5-MAG-C	Résidu	Magnétique	0,2640	0,2240	0,0070	0,0003	<0,000007	0,00001	5,6500	<0,000003
CV5-DMS-MID	Résidu	Middlings	0,3270	0,0761	0,0080	0,0005	0,000024	0,00009	2,3200	0,000010
CV5-FLO-C	Résidu	Flottation	0,2300	0,0212	0,0020	0,0003	0,000055	0,00015	1,7200	0,000009
CV5-MAG-F	Résidu	Magnétique	0,5780	0,1140	0,0190	0,0003	<0,000007	<0,00001	5,2400	0,000012
CV5-MID-F	Résidu	Middlings	0,4170	0,0703	0,0030	0,0011	0,000047	0,00004	3,9800	0,000006
CV5-FLO-F	Résidu	Flottation	0,4860	0,0221	0,0320	0,0053	0,000364	0,00049	2,8200	0,000013
CV5-BYP-CP	Résidu	By-pass	0,5300	0,1540	0,0330	0,0013	0,000325	0,00091	5,6300	0,000005

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# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,370	0,016	0,0016	3,4		0,9100		0,551
		D019/MDMER			0,100	3,0				
VIS-CV5-UM-281	Stérile	Ultramafique	0,0000	0,00105	<0,001	0,023	3,3800	0,1270	0,9230	0,0013
VIS-CV5-UM-282	Stérile	Ultramafique	0,0000	0,00122	<0,001	<0,007	0,1110	0,0005	1,3700	0,0021
VIS-CV5-UM-283	Stérile	Ultramafique	0,0000	0,00158	<0,001	<0,007	0,6970	0,0102	1,5600	0,0010
VIS-CV5-UM-284	Stérile	Ultramafique	0,0000	0,00074	<0,001	<0,007	1,5000	0,0426	1,3800	0,0005
VIS-CV5-UM-285	Stérile	Ultramafique	0,0001	0,00086	<0,001	0,032	0,3920	0,0199	1,4900	0,0009
VIS-CV5-UM-286	Stérile	Ultramafique	0,0001	0,00193	<0,001	0,039	0,6160	0,0035	2,3900	0,0015
VIS-CV5-UM-287	Stérile	Ultramafique	0,0000	0,00035	<0,001	0,008	0,6410	0,0250	1,3800	0,0007
VIS-CV5-UM-288	Stérile	Ultramafique	0,0001	0,00267	<0,001	0,074	3,2700	0,0596	1,4200	0,0023
VIS-CV5-UM-289	Stérile	Ultramafique	0,0000	0,00165	<0,001	0,011	2,0600	0,0380	1,6700	0,0016
VIS-CV5-UM-290	Stérile	Ultramafique	0,0000	0,00050	<0,001	<0,007	0,0860	0,0006	1,5000	0,0019
VIS-CV5-UM-291	Stérile	Ultramafique	0,0000	0,00044	<0,001	<0,007	0,8080	0,0095	1,5400	0,0002
VIS-CV5-UM-292	Stérile	Ultramafique	0,0000	0,00072	<0,001	<0,007	0,2200	0,0007	1,6200	0,0005
VIS-CV5-UM-293	Stérile	Ultramafique	0,0000	0,00050	<0,001	<0,007	0,1020	0,0004	1,5300	0,0002
VIS-CV5-UM-294	Stérile	Ultramafique	0,0000	0,00036	<0,001	<0,007	0,1790	0,0125	1,3400	0,0013
VIS-CV5-UM-295	Stérile	Ultramafique	0,0001	0,00094	<0,001	0,064	0,4400	0,0231	1,1800	0,0034
VIS-CV5-UM-296	Stérile	Ultramafique	0,0001	0,00096	<0,001	0,046	0,4520	0,0198	1,2800	0,0015
VIS-CV5-UM-297	Stérile	Ultramafique	0,0000	0,00299	<0,001	0,013	0,1160	0,0006	2,2200	0,0006
VIS-CV5-UM-298	Stérile	Ultramafique	0,0001	0,00249	<0,001	0,040	4,0200	0,1380	1,0600	0,0008
VIS-CV5-UM-299	Stérile	Ultramafique	0,0000	0,00021	<0,001	<0,007	0,5490	0,0270	0,9590	0,0005
VIS-CV5-UM-300	Stérile	Ultramafique	0,0000	0,00058	<0,001	0,013	0,4250	0,0117	1,4700	0,0004
VIS-CV5-UM-301	Stérile	Ultramafique	0,0000	0,00068	<0,001	0,040	0,4770	0,0170	1,1800	0,0011
VIS-CV5-UM-302	Stérile	Ultramafique	0,0000	0,00036	<0,001	0,014	1,2800	0,0327	0,8260	0,0005
VIS-CV5-UM-303	Stérile	Ultramafique	0,0001	0,00111	<0,001	0,180	0,5800	0,0393	0,6120	0,0036
VIS-CV5-UM-304	Stérile	Ultramafique	0,0001	0,00127	<0,001	0,046	0,4990	0,0148	1,1000	0,0014
VIS-CV5-UM-305	Stérile	Ultramafique	0,0001	0,00089	<0,001	0,052	0,5180	0,0082	0,9640	0,0012
VIS-CV5-UM-306	Stérile	Ultramafique	0,0002	0,00182	<0,001	0,225	0,1780	0,0146	0,9960	0,0047
VIS-CV5-UM-307	Stérile	Ultramafique	0,0005	0,00418	<0,001	0,310	1,2100	0,0793	1,3800	0,0061
VIS-CV5-UM-308	Stérile	Ultramafique	0,0001	0,00252	<0,001	0,084	1,1900	0,0313	1,0700	0,0023
VIS-CV5-UM-309	Stérile	Ultramafique	0,0000	0,00056	<0,001	0,025	0,3560	0,0170	0,8070	0,0009
VIS-CV5-UM-310	Stérile	Ultramafique	0,0001	0,00076	<0,001	0,023	1,2500	0,0323	0,9760	0,0007
VIS-CV5-UM-311	Stérile	Ultramafique	0,0001	0,00048	<0,001	0,020	1,3600	0,0810	1,1900	0,0004
VIS-CV5-UM-312	Stérile	Ultramafique	0,0000	0,00058	<0,001	0,032	1,3800	0,0537	0,9510	0,0008
VIS-CV5-UM-313	Stérile	Ultramafique	0,0000	0,00029	<0,001	<0,007	0,0550	0,0003	1,5100	0,0001
VIS-CV5-UM-314	Stérile	Ultramafique	0,0001	0,00157	<0,001	0,112	0,3630	0,0313	0,9050	0,0027
VIS-CV5-UM-315	Stérile	Ultramafique	0,0004	0,00220	<0,001	0,159	0,4070	0,0169	1,2100	0,0036
VIS-CV5-UM-316	Stérile	Ultramafique	0,0000	0,00064	<0,001	0,007	0,2760	0,0027	2,9600	0,0001
VIS-CV5-UM-317	Stérile	Ultramafique	0,0001	0,00196	<0,001	0,085	0,5130	0,0408	0,9640	0,0019
VIS-CV5-UM-318	Stérile	Ultramafique	0,0002	0,00397	<0,001	0,188	0,4290	0,0122	1,0000	0,0036
VIS-CV5-UM-319	Stérile	Ultramafique	0,0000	0,00079	<0,001	0,007	0,0950	0,0023	1,8900	0,0002
VIS-CV5-UM-320	Stérile	Ultramafique	0,0002	0,00412	<0,001	0,168	3,1200	0,1210	0,8880	0,0052
VIS-CV5-UM-321	Stérile	Ultramafique	0,0001	0,00110	<0,001	0,048	0,3420	0,0206	0,8160	0,0017
VIS-CV5-UM-322	Stérile	Ultramafique	0,0001	0,00130	<0,001	0,077	0,5290	0,0116	0,8940	0,0018
VIS-CV5-UM-323	Stérile	Ultramafique	0,0001	0,00060	<0,001	0,032	1,0100	0,0210	0,9670	0,0009
VIS-CV5-UM-324	Stérile	Ultramafique	0,0001	0,00158	<0,001	0,065	0,3770	0,0129	0,8110	0,0014
VIS-CV5-UM-325	Stérile	Ultramafique	0,0000	0,00081	<0,001	0,052	4,4100	0,0840	0,8180	0,0014
VIS-CV5-UM-326	Stérile	Ultramafique	0,0001	0,00161	<0,001	0,103	0,5110	0,0212	0,6420	0,0010
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0000	0,00037	<0,001	0,038	0,6480	0,0855	0,1980	0,0147
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,5620	0,3040	0,0390	0,1450
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0000	0,00010	<0,001	<0,007	0,4630	0,4750	0,0450	0,0411
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,8500	0,1870	0,0660	0,0198
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,4950	0,4200	0,0590	0,0644
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	0,008	0,6410	0,2370	0,0800	0,0226
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,5990	0,3300	0,0350	0,0135
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,7240	0,3340	0,2170	0,0552
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0001	<0,0001	<0,001	0,122	1,7000	0,0867	0,4110	0,0070
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,3500	0,2290	0,0440	0,0528
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0001	<0,00008	<0,001	<0,007	0,3710	0,2150	0,0470	0,0932
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,7700	0,1100	0,0710	0,0358
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,4060	0,1690	0,0410	0,0405
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	0,7050	0,1130	0,0940	0,0315
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	0,008	1,3300	0,2290	0,1310	0,0292
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0000	<0,00008	<0,001	<0,007	1,0900	0,0967	0,2120	0,0043
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0000	<0,00008	0,004	0,036	1,3000	0,2320	0,2700	0,0096
CV5-MAG-C	Résidu	Magnétique	0,0000	0,00051	<0,001	0,014	1,3300	0,0364	0,9840	0,0036
CV5-DMS-MID	Résidu	Middlings	0,0000	<0,00008	<0,001	0,011	1,5300	0,0713	0,4000	0,0070
CV5-FLO-C	Résidu	Flottation	0,0000	<0,00008	<0,001	0,008	1,4300	0,0194	0,1540	0,0093
CV5-MAG-F	Résidu	Magnétique	0,0000	0,00039	<0,001	0,019	1,4200	0,0623	0,9170	0,0039
CV5-MID-F	Résidu	Middlings	0,0000	0,00060	<0,001	0,020	0,9410	0,0422	0,5790	0,0109
CV5-FLO-F	Résidu	Flottation	0,0001	0,00094	<0,001	0,064	0,6940	0,0266	0,2550	0,0158
CV5-BYP-CP	Résidu	By-pass	0,0002	0,00146	0,002	0,083	0,8480	0,0894	0,5040	0,0102

Essais SPLP

# échantillon	Type de matériel	Lithologie	Molybdenum	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29		0,067		0,004	0,31	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-UM-281	Stérile	Ultramafique	<0,0004	0,2400	0,0004	0,0050	<0,00009	0,0900	0,00013	0,00010
VIS-CV5-UM-282	Stérile	Ultramafique	<0,0004	0,1200	0,0004	0,0050	<0,00009	0,2380	<0,00004	<0,00006
VIS-CV5-UM-283	Stérile	Ultramafique	0,0011	0,1900	0,0003	0,0030	<0,00009	0,1060	<0,00004	<0,00006
VIS-CV5-UM-284	Stérile	Ultramafique	<0,0004	0,3400	0,0002	0,0030	<0,00009	0,0955	<0,00004	<0,00006
VIS-CV5-UM-285	Stérile	Ultramafique	<0,0004	0,3000	0,0008	0,0030	<0,00009	0,1340	0,00028	<0,00006
VIS-CV5-UM-286	Stérile	Ultramafique	<0,0004	0,2000	0,0049	0,0030	<0,00009	0,2350	0,00005	0,00007
VIS-CV5-UM-287	Stérile	Ultramafique	0,0006	0,9200	0,0007	0,0060	<0,00009	0,0873	0,00121	0,00007
VIS-CV5-UM-288	Stérile	Ultramafique	<0,0004	0,4900	0,0017	0,0060	<0,00009	0,1120	<0,00004	<0,00006
VIS-CV5-UM-289	Stérile	Ultramafique	<0,0004	0,2700	0,0004	0,0070	<0,00009	0,0788	<0,00004	<0,00006
VIS-CV5-UM-290	Stérile	Ultramafique	<0,0004	0,1600	0,0002	0,0030	<0,00009	0,0664	<0,00004	<0,00006
VIS-CV5-UM-291	Stérile	Ultramafique	<0,0004	4,5700	0,0010	0,0040	<0,00009	0,1660	<0,00004	0,00008
VIS-CV5-UM-292	Stérile	Ultramafique	<0,0004	0,1200	0,0009	0,0030	<0,00009	0,0636	<0,00004	0,00008
VIS-CV5-UM-293	Stérile	Ultramafique	<0,0004	0,1400	<0,0001	0,0030	<0,00009	0,0070	<0,00004	<0,00006
VIS-CV5-UM-294	Stérile	Ultramafique	0,0008	0,2600	<0,0001	0,0030	<0,00009	0,0084	0,00024	<0,00006
VIS-CV5-UM-295	Stérile	Ultramafique	<0,0004	0,5400	0,0003	0,0040	<0,00009	0,0051	0,00006	<0,00006
VIS-CV5-UM-296	Stérile	Ultramafique	<0,0004	0,5100	0,0004	0,0030	<0,00009	0,0083	0,00010	<0,00006
VIS-CV5-UM-297	Stérile	Ultramafique	0,0005	0,2300	0,0006	0,0030	<0,00009	0,0458	0,00008	0,00008
VIS-CV5-UM-298	Stérile	Ultramafique	<0,0004	0,2800	0,0009	0,0060	<0,00009	0,0207	0,00009	0,00016
VIS-CV5-UM-299	Stérile	Ultramafique	0,0012	0,5800	0,0002	0,0030	<0,00009	0,0234	0,00012	<0,00006
VIS-CV5-UM-300	Stérile	Ultramafique	<0,0004	0,3800	0,0003	0,0030	<0,00009	0,0295	0,00019	<0,00006
VIS-CV5-UM-301	Stérile	Ultramafique	<0,0004	0,4700	0,0004	0,0040	<0,00009	0,0446	0,00012	<0,00006
VIS-CV5-UM-302	Stérile	Ultramafique	<0,0004	0,3700	0,0002	0,0030	<0,00009	0,0017	0,00012	<0,00006
VIS-CV5-UM-303	Stérile	Ultramafique	<0,0004	5,8700	0,0009	0,0130	0,00014	0,0433	0,00013	0,00027
VIS-CV5-UM-304	Stérile	Ultramafique	<0,0004	5,0800	0,0008	0,0030	<0,00009	0,0229	0,00015	<0,00006
VIS-CV5-UM-305	Stérile	Ultramafique	<0,0004	4,1900	0,0004	0,0030	<0,00009	0,0046	0,00008	<0,00006
VIS-CV5-UM-306	Stérile	Ultramafique	<0,0004	4,7200	0,0009	0,0050	<0,00009	0,0197	0,00018	<0,00006
VIS-CV5-UM-307	Stérile	Ultramafique	0,0008	4,5300	0,0040	0,0200	0,00012	0,1010	0,00030	0,00022
VIS-CV5-UM-308	Stérile	Ultramafique	<0,0004	4,5200	0,0022	0,0050	<0,00009	0,0289	<0,00004	0,00010
VIS-CV5-UM-309	Stérile	Ultramafique	<0,0004	5,0600	0,0003	0,0030	<0,00009	0,0150	0,00020	<0,00006
VIS-CV5-UM-310	Stérile	Ultramafique	<0,0004	4,6800	0,0005	0,0040	<0,00009	0,0571	0,00007	<0,00006
VIS-CV5-UM-311	Stérile	Ultramafique	0,0005	4,8800	0,0004	0,0030	<0,00009	0,0311	<0,00004	0,00092
VIS-CV5-UM-312	Stérile	Ultramafique	<0,0004	6,6100	0,0004	0,0090	<0,00009	0,0307	<0,00004	0,00008
VIS-CV5-UM-313	Stérile	Ultramafique	<0,0004	4,2700	0,0001	0,0030	<0,00009	0,0096	0,00004	0,00009
VIS-CV5-UM-314	Stérile	Ultramafique	<0,0004	5,2700	0,0006	0,0030	<0,00009	0,0238	0,00005	<0,00006
VIS-CV5-UM-315	Stérile	Ultramafique	<0,0004	5,4400	0,0024	0,0080	<0,00009	0,0078	0,00055	0,00007
VIS-CV5-UM-316	Stérile	Ultramafique	<0,0004	4,6700	0,0003	0,0030	<0,00009	0,0150	<0,00004	0,00008
VIS-CV5-UM-317	Stérile	Ultramafique	<0,0004	4,2500	0,0009	0,0050	<0,00009	0,0144	0,00011	0,00007
VIS-CV5-UM-318	Stérile	Ultramafique	0,0096	4,8100	0,0014	0,0040	<0,00009	0,0040	0,00010	0,00009
VIS-CV5-UM-319	Stérile	Ultramafique	<0,0004	5,7800	0,0004	0,0030	<0,00009	0,1300	<0,00004	0,00019
VIS-CV5-UM-320	Stérile	Ultramafique	<0,0004	5,8200	0,0014	0,0030	<0,00009	0,0212	0,00006	0,00017
VIS-CV5-UM-321	Stérile	Ultramafique	<0,0004	4,9500	0,0005	0,0060	<0,00009	0,0240	0,00011	<0,00006
VIS-CV5-UM-322	Stérile	Ultramafique	<0,0004	5,0400	0,0004	0,0030	<0,00009	0,0056	0,00008	<0,00006
VIS-CV5-UM-323	Stérile	Ultramafique	<0,0004	4,6000	0,0002	0,0030	<0,00009	0,0081	0,00032	0,00008
VIS-CV5-UM-324	Stérile	Ultramafique	<0,0004	5,9500	0,0008	0,0140	<0,00009	0,0212	0,00021	0,00012
VIS-CV5-UM-325	Stérile	Ultramafique	<0,0004	4,5200	0,0003	0,0030	<0,00009	0,0149	<0,00004	0,00010
VIS-CV5-UM-326	Stérile	Ultramafique	0,0006	9,0600	0,0004	0,0030	<0,00009	0,1080	<0,00004	0,00008
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0007	5,2400	0,0002	0,1280	0,00019	0,0104	<0,00004	0,00062
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0012	0,7200	<0,0001	0,1760	<0,00009	0,0139	<0,00004	0,00011
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0006	1,0600	<0,0001	0,1560	<0,00009	0,0749	<0,00004	0,00007
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0008	1,4300	<0,0001	0,0850	<0,00009	0,0299	<0,00004	0,00008
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0007	0,8500	<0,0001	0,1130	<0,00009	0,2820	<0,00004	0,00018
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0007	1,1100	<0,0001	0,0480	<0,00009	0,0133	<0,00004	0,00009
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0005	1,5900	<0,0001	0,0870	<0,00009	0,1050	<0,00004	0,00010
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0008	1,0800	<0,0001	0,0880	<0,00009	0,0055	<0,00004	0,00013
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	<0,0004	7,2300	<0,0001	0,0630	0,00020	0,0033	<0,00004	0,00133
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	<0,0004	0,6000	0,0004	0,1040	<0,00009	0,0274	<0,00004	0,00013
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	<0,0004	1,1900	0,0002	0,1660	<0,00009	0,0156	<0,00004	0,00012
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	<0,0004	0,6300	0,0005	0,1250	<0,00009	0,0082	<0,00004	0,00015
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	<0,0004	1,0900	<0,0001	0,0630	<0,00009	0,0312	<0,00004	0,00012
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	<0,0004	1,3100	<0,0001	0,0680	<0,00009	0,0061	<0,00004	0,00013
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	<0,0004	1,3100	<0,0001	0,0560	<0,00009	0,0022	<0,00004	0,00014
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	<0,0004	0,8400	<0,0001	0,0480	<0,00009	0,0023	<0,00004	0,00015
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0005	4,7600	<0,0001	0,0840	0,00035	0,0022	<0,00004	0,00068
CV5-MAG-C	Résidu	Magnétique	<0,0004	0,8100	0,0003	0,0500	<0,00009	0,0415	<0,00004	0,00006
CV5-DMS-MID	Résidu	Middlings	<0,0004	1,6200	0,0004	0,0300	0,00011	0,0098	<0,00004	0,00009
CV5-FLO-C	Résidu	Flottation	0,0009	2,1600	0,0003	0,0300	<0,00009	0,0054	<0,00004	0,00006
CV5-MAG-F	Résidu	Magnétique	<0,0004	0,6200	0,0004	0,0800	0,00013	0,0235	<0,00004	<0,00006
CV5-MID-F	Résidu	Middlings	<0,0004	0,5200	0,0005	0,0300	<0,00009	0,0137	<0,00004	0,00008
CV5-FLO-F	Résidu	Flottation	<0,0004	6,7500	0,0004	0,0300	0,00106	0,0053	<0,00004	0,00030
CV5-BYP-CP	Résidu	By-pass	0,0013	6,1200	0,0020	0,0500	0,00048	0,0366	0,00009	0,00045

Essais SPLP

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40		0,047	0,017	0,11	0,02
		D019/MDMER						0,40
VIS-CV5-UM-281	Stérile	Ultramafique	0,0051	0,0007	0,001140	0,000013	0,00282	<0,002
VIS-CV5-UM-282	Stérile	Ultramafique	0,0045	0,0001	0,000014	0,000018	0,00277	<0,002
VIS-CV5-UM-283	Stérile	Ultramafique	0,0150	0,0001	0,000150	0,000078	0,00298	<0,002
VIS-CV5-UM-284	Stérile	Ultramafique	0,0121	0,0001	0,000213	0,000004	0,00419	<0,002
VIS-CV5-UM-285	Stérile	Ultramafique	0,0113	0,0008	0,000208	0,000021	0,00397	<0,002
VIS-CV5-UM-286	Stérile	Ultramafique	0,0044	0,0001	0,000064	0,000007	0,00333	<0,002
VIS-CV5-UM-287	Stérile	Ultramafique	0,0150	0,0002	0,000080	0,000081	0,00622	<0,002
VIS-CV5-UM-288	Stérile	Ultramafique	0,0247	0,0016	0,000796	0,000165	0,00501	<0,002
VIS-CV5-UM-289	Stérile	Ultramafique	0,0201	0,0002	0,000550	0,000007	0,00378	<0,002
VIS-CV5-UM-290	Stérile	Ultramafique	0,0074	0,0001	0,000020	0,000050	0,00208	<0,002
VIS-CV5-UM-291	Stérile	Ultramafique	0,0133	0,0001	0,000014	0,000017	0,00247	<0,002
VIS-CV5-UM-292	Stérile	Ultramafique	0,0091	0,0001	0,000028	0,000021	0,00289	<0,002
VIS-CV5-UM-293	Stérile	Ultramafique	0,0094	0,0001	0,000036	0,000002	0,00163	<0,002
VIS-CV5-UM-294	Stérile	Ultramafique	0,0114	0,0001	0,000099	0,000007	0,00379	<0,002
VIS-CV5-UM-295	Stérile	Ultramafique	0,0115	0,0017	0,000025	0,000231	0,00406	<0,002
VIS-CV5-UM-296	Stérile	Ultramafique	0,0150	0,0006	0,000017	0,000021	0,00591	<0,002
VIS-CV5-UM-297	Stérile	Ultramafique	0,0121	0,0001	0,000007	0,000005	0,00472	<0,002
VIS-CV5-UM-298	Stérile	Ultramafique	0,0088	0,0011	0,000532	0,000015	0,00586	<0,002
VIS-CV5-UM-299	Stérile	Ultramafique	0,0163	0,0002	0,000078	0,000002	0,00462	<0,002
VIS-CV5-UM-300	Stérile	Ultramafique	0,0092	0,0002	0,000068	0,000012	0,00462	<0,002
VIS-CV5-UM-301	Stérile	Ultramafique	0,0086	0,0010	0,000031	0,000008	0,00439	<0,002
VIS-CV5-UM-302	Stérile	Ultramafique	0,0045	0,0004	0,000017	0,000002	0,00247	<0,002
VIS-CV5-UM-303	Stérile	Ultramafique	0,0117	0,0083	0,000027	0,000084	0,00532	<0,002
VIS-CV5-UM-304	Stérile	Ultramafique	0,0112	0,0012	<0,000005	0,000009	0,00376	<0,002
VIS-CV5-UM-305	Stérile	Ultramafique	0,0112	0,0010	<0,000005	0,000019	0,00487	<0,002
VIS-CV5-UM-306	Stérile	Ultramafique	0,0138	0,0049	<0,000005	0,000014	0,00444	<0,002
VIS-CV5-UM-307	Stérile	Ultramafique	0,0111	0,0071	0,000041	0,000096	0,00432	<0,002
VIS-CV5-UM-308	Stérile	Ultramafique	0,0244	0,0015	0,000057	0,000006	0,00242	<0,002
VIS-CV5-UM-309	Stérile	Ultramafique	0,0141	0,0006	<0,000005	0,000007	0,00443	<0,002
VIS-CV5-UM-310	Stérile	Ultramafique	0,0225	0,0008	0,000008	0,000015	0,00377	<0,002
VIS-CV5-UM-311	Stérile	Ultramafique	0,0104	0,0003	0,000025	0,000005	0,00291	<0,004
VIS-CV5-UM-312	Stérile	Ultramafique	0,0097	0,0015	0,000032	0,000002	0,00168	<0,002
VIS-CV5-UM-313	Stérile	Ultramafique	0,0078	0,0001	<0,000005	0,000006	0,00141	<0,003
VIS-CV5-UM-314	Stérile	Ultramafique	0,0121	0,0026	0,000006	0,000107	0,00412	<0,002
VIS-CV5-UM-315	Stérile	Ultramafique	0,0118	0,0040	0,000006	0,000045	0,00740	<0,002
VIS-CV5-UM-316	Stérile	Ultramafique	0,0076	0,0001	<0,000005	0,000002	0,00182	<0,002
VIS-CV5-UM-317	Stérile	Ultramafique	0,0128	0,0020	0,000017	0,000009	0,00430	<0,002
VIS-CV5-UM-318	Stérile	Ultramafique	0,0117	0,0039	<0,000005	0,000014	0,00625	<0,002
VIS-CV5-UM-319	Stérile	Ultramafique	0,0248	0,0001	<0,000005	0,000002	0,00220	<0,002
VIS-CV5-UM-320	Stérile	Ultramafique	0,0080	0,0040	0,000156	0,000219	0,00390	<0,002
VIS-CV5-UM-321	Stérile	Ultramafique	0,0093	0,0008	<0,000005	0,000150	0,00465	<0,002
VIS-CV5-UM-322	Stérile	Ultramafique	0,0113	0,0021	<0,000005	0,000008	0,00414	<0,002
VIS-CV5-UM-323	Stérile	Ultramafique	0,0113	0,0007	<0,000005	0,000011	0,00576	<0,002
VIS-CV5-UM-324	Stérile	Ultramafique	0,0095	0,0015	0,000011	0,000040	0,00375	<0,002
VIS-CV5-UM-325	Stérile	Ultramafique	0,0132	0,0018	0,000080	0,000020	0,00410	<0,002
VIS-CV5-UM-326	Stérile	Ultramafique	0,0411	0,0012	<0,000005	0,000002	0,01080	<0,002
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0052	0,0007	0,000140	0,001170	0,00015	<0,002
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0038	0,0001	0,000166	0,000256	0,00007	<0,002
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0015	0,0001	0,000116	0,000636	0,00008	<0,002
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0037	0,0001	0,000118	0,000127	0,00012	<0,002
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0050	0,0001	0,000106	0,000056	0,00005	<0,002
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0062	0,0001	0,000110	0,000206	0,00007	<0,002
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0035	0,0001	0,000153	0,000209	0,00005	<0,002
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0089	0,0001	0,000070	0,000101	0,00008	<0,002
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0074	0,0006	0,000192	0,000423	0,00022	<0,002
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0039	0,0001	0,000332	0,000024	0,00007	<0,002
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0030	0,0001	0,000095	0,001690	0,00008	<0,002
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0022	0,0002	0,000403	0,000065	0,00011	<0,002
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0022	0,0002	0,000096	0,001510	0,00007	<0,002
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0074	0,0001	0,000085	0,003740	0,00013	<0,002
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0030	0,0002	0,000197	0,000059	0,00024	<0,002
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0150	0,0001	0,000078	0,000181	0,00006	<0,002
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0084	0,0004	0,000145	0,000409	0,00015	0,006
CV5-MAG-C	Résidu	Magnétique	0,0076	0,0003	0,000213	0,000042	0,00278	<0,002
CV5-DMS-MID	Résidu	Middlings	0,0038	0,0004	0,000115	0,000093	0,00046	0,007
CV5-FLO-C	Résidu	Flottation	0,0036	0,0001	0,000171	0,000194	0,00007	<0,002
CV5-MAG-F	Résidu	Magnétique	0,0083	0,0005	0,000215	0,000192	0,00219	0,008
CV5-MID-F	Résidu	Middlings	0,0083	0,0005	0,000140	0,000169	0,00071	0,005
CV5-FLO-F	Résidu	Flottation	0,0056	0,0017	0,000124	0,002830	0,00034	0,007
CV5-BYP-CP	Résidu	By-pass	0,0118	0,0023	0,000087	0,003330	0,00125	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
	Unité		pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
	CVAA - Effet aigu						320	500	0,0014	0,00004
	D019/MDMER									
1	Stérile	Amphibolite	9,1	278	82	<2,0	<20,0	24	<0,00001	<0,00005
2	Stérile	Amphibolite	8,1	331	60	<2,0	<20,0	41	<0,00001	0,0003
3	Stérile	Amphibolite	8,2	185	52	<2,0	<20,0	<20,0	<0,00001	<0,00005
4	Stérile	Amphibolite	9,6	158	71	<2,0	<20,0	<20,0	<0,00001	<0,00005
5	Stérile	Amphibolite	8,0	333	55	<2,0	<20,0	53	<0,00001	0,0002
6	Stérile	Amphibolite	8,3	119	40	<2,0	<20,0	<20,0	<0,00001	<0,00005
7	Stérile	Amphibolite	8,3	175	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
8	Stérile	Amphibolite	8,4	157	45	<2,0	<20,0	<20,0	<0,00001	<0,00005
9	Stérile	Amphibolite	8,6	122	34	<2,0	<20,0	<20,0	<0,00001	<0,00005
10	Stérile	Amphibolite	8,1	252	47	<2,0	<20,0	35	<0,00001	<0,00005
11	Stérile	Amphibolite	8,7	199	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
12	Stérile	Amphibolite	8,1	188	39	<2,0	<20,0	<20,0	<0,00001	<0,00005
13	Stérile	Amphibolite	8,2	198	53	<2,0	<20,0	<20,0	<0,00001	<0,00005
14	Stérile	Amphibolite	8,5	233	54	<2,0	24	<20,0	<0,00001	<0,00005
15	Stérile	Amphibolite	8,7	162	44	<2,0	<20,0	<20,0	<0,00001	<0,00005
16	Stérile	Métasédiment	8,0	502	50	<2,0	<20,0	75	<0,00001	0,0003
17	Stérile	Amphibolite	8,0	573	56	<2,0	<20,0	94	<0,00001	0,0003
18	Stérile	Amphibolite	8,1	255	46	<2,0	<20,0	32	<0,00001	<0,00005
19	Stérile	Pegmatite stérile	8,7	207	41	<2,0	<20,0	<20,0	<0,00001	<0,00005
20	Stérile	Amphibolite	8,1	654	65	<2,0	<20,0	160	<0,00001	0,0001
21	Stérile	Amphibolite	8,6	141	45	<2,0	<20,0	<20,0	<0,00001	<0,00005
22	Stérile	Amphibolite	8,2	210	55	<2,0	<20,0	<20,0	0,00003	<0,00005
23	Stérile	Métasédiment	8,2	836	85	<2,0	<20,0	240	0,00002	<0,00005
24	Stérile	Amphibolite	8,4	179	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
25	Stérile	Métasédiment	8,8	185	57	<2,0	<20,0	<20,0	<0,00001	<0,00005
26	Stérile	Amphibolite	8,6	145	43	<2,0	<20,0	<20,0	<0,00001	<0,00005
27	Stérile	Amphibolite	8,1	333	56	<2,0	20	42	<0,00001	0,0001
28	Stérile	Amphibolite	8,3	274	56	<2,0	<20,0	NA	0,00013	<0,00005
29	Stérile	Amphibolite	8,5	268	88	<2,0	<20,0	NA	0,00006	0,0002
30	Stérile	Amphibolite	8,9	190	62	<2,0	<20,0	NA	<0,00001	<0,00005
31	Stérile	Métasédiment	8,5	234	89	<2,0	<20,0	<20,0	<0,00001	<0,00005
32	Stérile	Amphibolite	8,5	114	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
33	Stérile	Amphibolite	8,4	162	60	<2,0	<20,0	<20,0	<0,00001	<0,00005
34	Stérile	Métasédiment	8,4	237	85	<2,0	<20,0	<20,0	<0,00001	<0,00005
35	Stérile	Métasédiment	8,8	211	89	<2,0	<20,0	<20,0	<0,00001	<0,00005
36	Stérile	Ultramafique	8,5	353	132	<2,0	<20,0	51	<0,00001	<0,00005
37	Stérile	Amphibolite	8,2	334	68	<2,0	<20,0	41	<0,00001	0,0002
38	Stérile	Métasédiment	8,2	247	58	<2,0	<20,0	22	<0,00001	<0,00005
39	Stérile	Métasédiment	7,9	260	65	<2,0	<20,0	43	<0,00001	0,0004
40	Stérile	Métasédiment	8,1	218	75	<2,0	<20,0	20	<0,00001	<0,00005
41	Stérile	Métasédiment	8,0	232	65	<2,0	<20,0	36	<0,00001	0,0001
42	Stérile	Métasédiment	8,0	429	69	<2,0	<20,0	92	<0,00001	0,0002
43	Stérile	Métasédiment	8,0	341	71	<2,0	<20,0	78	<0,00001	0,0001
44	Stérile	Métasédiment	8,5	176	83	<2,0	<20,0	<20,0	<0,00001	<0,00005
45	Stérile	Métasédiment	8,4	173	76	<2,0	<20,0	<20,0	<0,00001	<0,00005
46	Stérile	Métasédiment	8,5	183	85	<2,0	<20,0	<20,0	<0,00001	<0,00005
47	Stérile	Métasédiment	8,0	145	50	<2,0	<20,0	31	<0,00001	0,0001
48	Stérile	Métasédiment	8,3	201	73	<2,0	<20,0	NA	<0,00001	<0,00005
49	Stérile	Métasédiment	8,9	212	96	<2,0	<20,0	<20,0	<0,00001	<0,00005
50	Stérile	Métasédiment	8,1	417	74	<2,0	<20,0	61	<0,00001	0,0005
51	Stérile	Métasédiment	8,0	167	58	<2,0	<20,0	46	<0,00001	0,0002
52	Stérile	Métasédiment	8,1	253	86	<2,0	<20,0	25	<0,00001	0,0001
53	Stérile	Métasédiment	8,1	278	83	<2,0	<20,0	25	<0,00001	<0,00005
54	Stérile	Métasédiment	8,4	277	74	<2,0	<20,0	NA	0,00007	<0,00005
55	Stérile	Métasédiment	8,4	149	47	<2,0	<20,0	<20,0	<0,00001	<0,00005
56	Stérile	Amphibolite	8,1	183	62	<2,0	<20,0	<20,0	<0,00001	<0,00005
57	Stérile	Métasédiment	7,8	200	47	<2,0	<20,0	22	<0,00001	0,0001
58	Stérile	Ultramafique	8,1	281	119	<2,0	<20,0	37	<0,00001	<0,00005
59	Stérile	Ultramafique	8,0	255	76	<2,0	<20,0	36	<0,00001	0,0001
60	Stérile	Ultramafique	8,6	437	191	<2,0	<20,0	30	<0,00001	<0,00005
61	Stérile	Ultramafique	8,4	219	101	<2,0	<20,0	<20,0	<0,00001	<0,00005
62	Stérile	Ultramafique	8,1	521	153	<2,0	23	58	<0,00001	<0,00005
63	Stérile	Pegmatite stérile	9,2	286	104	<2,0	<20,0	<20,0	<0,00001	<0,00005
64	Stérile	Pegmatite stérile	8,3	125	59	<2,0	<20,0	<20,0	<0,00001	<0,00005
65	Stérile	Pegmatite stérile	9,7	266	90	<2,0	<20,0	<20,0	<0,00001	<0,00005
66	Stérile	Pegmatite stérile	9,2	117	73	<2,0	<20,0	<20,0	<0,00001	<0,00005
67	Stérile	Pegmatite stérile	9,7	267	82	<2,0	22	<20,0	<0,00001	<0,00005
68	Stérile	Pegmatite stérile	9,2	234	97	<2,0	<20,0	NA	<0,00001	<0,00005
69	Stérile	Pegmatite stérile	8,7	249	93	<2,0	30	<20,0	<0,00001	<0,00005
70	Stérile	Pegmatite stérile	9,3	117	86	<2,0	30	<20,0	<0,00001	0,0003
71	Stérile	Pegmatite stérile	9,3	224	80	<2,0	21	NA	0,00013	0,0001
72	Stérile	Pegmatite stérile	9,3	224	104	<2,0	<20,0	NA	<0,00001	<0,00005
73	Stérile	Pegmatite stérile	9,2	117	79	<2,0	<20,0	<20,0	<0,00001	<0,00005
74	Minerai	Pegmatite spodumène	9,6	156	96	<2,0	21	<20,0	<0,00001	<0,00005
75	Minerai	Pegmatite spodumène	9,8	155	110	<2,0	20	<20,0	<0,00001	0,0001
76	Minerai	Pegmatite spodumène	8,2	240	82	<2,0	30	<20,0	<0,00001	<0,00005
77	Minerai	Pegmatite spodumène	8,7	179	83	<2,0	29	<20,0	<0,00001	<0,00005
78	Minerai	Pegmatite spodumène	8,6	247	92	<2,0	21	NA	0,00012	<0,00005
79	Minerai	Pegmatite spodumène	9,6	285	93	<2,0	<20,0	<20,0	<0,00001	<0,00005
80	Stérile	Pegmatite stérile	7,9	145	71	<2,0	<20,0	26	<0,00001	0,0003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
1	Stérile	Amphibolite	1,000	0,030	0,104	0,00562	0,000016	<0,00001	2,09	0,000006
2	Stérile	Amphibolite	0,331	0,082	0,221	0,00441	<0,000007	<0,00001	12,90	0,000004
3	Stérile	Amphibolite	0,814	0,010	0,078	0,00137	<0,000007	<0,00001	7,37	<0,000003
4	Stérile	Amphibolite	0,734	0,384	0,112	0,00081	0,000017	0,00001	5,70	<0,000003
5	Stérile	Amphibolite	0,248	1,020	0,165	0,00443	<0,000007	<0,00001	16,30	<0,000003
6	Stérile	Amphibolite	0,616	0,003	0,042	0,00033	0,000007	<0,00001	7,18	<0,000003
7	Stérile	Amphibolite	0,309	0,032	0,092	0,00053	<0,000007	<0,00001	7,61	<0,000003
8	Stérile	Amphibolite	0,638	0,007	0,135	0,00047	<0,000007	<0,00001	6,45	<0,000003
9	Stérile	Amphibolite	0,779	0,019	0,065	0,00039	<0,000007	<0,00001	8,41	<0,000003
10	Stérile	Amphibolite	0,210	0,014	0,115	0,00086	<0,000007	<0,00001	17,60	<0,000003
11	Stérile	Amphibolite	0,513	0,079	0,288	0,00072	<0,000007	<0,00001	7,29	0,000004
12	Stérile	Amphibolite	0,451	0,024	0,280	0,00091	<0,000007	<0,00001	8,55	<0,000003
13	Stérile	Amphibolite	0,297	0,228	0,183	0,00097	0,000010	<0,00001	6,52	<0,000003
14	Stérile	Amphibolite	0,397	0,280	0,110	0,00056	<0,000007	<0,00001	6,71	<0,000003
15	Stérile	Amphibolite	0,425	0,030	0,174	0,00079	<0,000007	<0,00001	6,32	<0,000003
16	Stérile	Métasédiment	0,072	0,002	0,085	0,01680	<0,000007	0,00001	35,20	0,000315
17	Stérile	Amphibolite	0,137	0,005	0,093	0,01580	<0,000007	<0,00001	44,30	0,000247
18	Stérile	Amphibolite	0,241	0,292	0,157	0,00202	<0,000007	<0,00001	13,00	0,000007
19	Stérile	Pegmatite stérile	0,447	0,027	0,094	0,00054	<0,000007	<0,00001	7,38	<0,000003
20	Stérile	Amphibolite	0,130	0,001	0,067	0,05060	<0,000007	<0,00001	60,00	0,000025
21	Stérile	Amphibolite	0,535	0,609	0,118	0,00164	<0,000007	<0,00001	4,87	0,000004
22	Stérile	Amphibolite	0,260	1,220	0,120	0,00075	0,000012	<0,00001	8,19	0,000007
23	Stérile	Métasédiment	0,040	0,003	0,128	0,01150	<0,000007	<0,00001	92,70	0,000028
24	Stérile	Amphibolite	1,070	0,031	0,063	0,00253	<0,000007	<0,00001	3,93	<0,000003
25	Stérile	Métasédiment	0,136	0,879	0,913	0,00701	<0,000007	0,00001	8,58	<0,000003
26	Stérile	Amphibolite	0,773	0,019	0,192	0,00065	<0,000007	<0,00001	4,72	<0,000003
27	Stérile	Amphibolite	0,159	0,026	0,140	0,00140	<0,000007	<0,00001	15,40	0,000007
28	Stérile	Amphibolite	0,337	0,193	0,363	0,00291	0,000035	0,00007	15,40	0,000005
29	Stérile	Amphibolite	0,378	0,158	0,144	0,00344	0,000014	0,00002	8,34	0,000006
30	Stérile	Amphibolite	0,757	0,013	0,154	0,00072	<0,000007	<0,00001	7,82	<0,000003
31	Stérile	Métasédiment	2,300	0,680	0,187	0,00757	0,000092	<0,00001	1,74	0,000006
32	Stérile	Amphibolite	0,777	0,022	0,076	0,00044	<0,000007	<0,00001	4,51	<0,000003
33	Stérile	Amphibolite	0,753	0,018	0,112	0,00096	<0,000007	<0,00001	5,89	<0,000003
34	Stérile	Métasédiment	2,940	0,604	0,186	0,01180	0,000200	0,00002	2,09	0,000020
35	Stérile	Métasédiment	2,350	0,187	0,118	0,01410	0,000022	0,00001	1,71	0,000010
36	Stérile	Ultramafique	0,007	63,800	0,623	0,00937	<0,000007	<0,00001	14,30	<0,000003
37	Stérile	Amphibolite	0,308	1,130	1,350	0,00535	0,000028	<0,00001	18,80	0,000017
38	Stérile	Métasédiment	0,637	0,037	0,149	0,00110	0,000228	0,00002	4,34	0,000011
39	Stérile	Métasédiment	0,413	0,146	0,107	0,00474	0,000049	0,00001	9,26	0,000067
40	Stérile	Métasédiment	1,030	0,078	0,139	0,00189	<0,000007	<0,00001	4,99	<0,000003
41	Stérile	Métasédiment	0,598	0,024	0,158	0,00288	0,000008	<0,00001	6,70	<0,000003
42	Stérile	Métasédiment	0,262	0,007	0,151	0,00471	0,000032	0,00001	19,50	0,000046
43	Stérile	Métasédiment	0,367	0,007	0,286	0,00498	0,000055	0,00001	16,30	0,000033
44	Stérile	Métasédiment	2,590	0,125	0,051	0,00564	0,000119	0,00001	1,49	0,000003
45	Stérile	Métasédiment	2,370	0,036	0,034	0,00309	0,000026	0,00002	1,81	<0,000003
46	Stérile	Métasédiment	2,920	0,058	0,037	0,00284	0,000011	<0,00001	1,70	0,000004
47	Stérile	Métasédiment	0,913	0,017	0,039	0,00579	<0,000007	0,00002	3,44	0,000009
48	Stérile	Métasédiment	0,320	0,019	0,056	0,00061	0,000018	<0,00001	12,80	0,000003
49	Stérile	Métasédiment	2,070	0,268	0,166	0,00497	0,000072	0,00003	1,03	0,000006
50	Stérile	Métasédiment	0,266	0,087	0,073	0,00561	<0,000007	<0,00001	15,20	0,000106
51	Stérile	Métasédiment	0,852	0,038	0,075	0,00270	0,000032	0,00001	5,64	0,000003
52	Stérile	Métasédiment	0,363	0,008	0,113	0,00437	<0,000007	<0,00001	11,60	0,000005
53	Stérile	Métasédiment	0,561	5,470	0,055	0,01003	0,000046	<0,00001	7,60	<0,000003
54	Stérile	Métasédiment	1,240	0,059	0,288	0,00605	0,000030	0,00001	7,81	0,000022
55	Stérile	Métasédiment	0,034	3,990	0,041	0,00302	<0,000007	<0,00001	8,79	0,000003
56	Stérile	Amphibolite	0,330	0,199	0,123	0,00336	<0,000007	<0,00001	4,20	0,000021
57	Stérile	Métasédiment	0,064	0,008	0,126	0,00651	0,000037	<0,00001	9,17	0,000142
58	Stérile	Ultramafique	0,007	18,000	0,222	0,00229	<0,000007	<0,00001	13,00	<0,000003
59	Stérile	Ultramafique	0,047	3,770	0,039	0,00230	0,000047	<0,00001	14,80	<0,000003
60	Stérile	Ultramafique	0,004	40,300	0,164	0,00806	0,000094	0,00002	12,20	0,000026
61	Stérile	Ultramafique	0,016	1,600	1,150	0,00083	0,000093	<0,00001	9,32	0,000035
62	Stérile	Ultramafique	0,005	49,400	0,232	0,00997	0,000034	<0,00001	21,40	0,000039
63	Stérile	Pegmatite stérile	1,030	0,923	0,653	0,00100	0,001541	0,00248	0,60	0,000010
64	Stérile	Pegmatite stérile	3,620	1,830	0,261	0,00387	0,002100	0,00006	1,04	<0,000003
65	Stérile	Pegmatite stérile	0,789	0,723	0,190	0,00074	0,000295	0,00070	0,51	0,000003
66	Stérile	Pegmatite stérile	0,771	1,080	0,274	0,00051	0,000392	0,00044	0,18	0,000004
67	Stérile	Pegmatite stérile	0,570	0,265	0,170	0,00061	0,000174	0,00050	0,21	0,000004
68	Stérile	Pegmatite stérile	1,920	0,742	0,244	0,00113	0,000220	0,00160	1,88	0,000005
69	Stérile	Pegmatite stérile	1,910	0,850	0,472	0,00178	0,014600	0,00372	0,90	<0,000003
70	Stérile	Pegmatite stérile	0,717	0,611	0,253	0,00074	0,003832	0,00126	0,70	0,000058
71	Stérile	Pegmatite stérile	5,820	3,730	0,471	0,00213	0,001990	0,00027	0,48	0,000017
72	Stérile	Pegmatite stérile	7,390	0,569	1,260	0,00156	0,004290	0,00122	1,33	0,000058
73	Stérile	Pegmatite stérile	1,610	0,499	0,221	0,00089	0,000220	0,00052	0,21	<0,000003
74	Minerai	Pegmatite spodumène	2,330	3,300	0,331	0,00083	0,000580	0,00023	0,30	0,000010
75	Minerai	Pegmatite spodumène	0,830	1,370	0,300	0,00046	0,001730	0,01030	0,38	0,000004
76	Minerai	Pegmatite spodumène	1,280	0,350	0,296	0,00221	0,002850	0,00043	1,47	0,000060
77	Minerai	Pegmatite spodumène	1,610	0,441	0,224	0,00086	0,004290	0,00006	0,85	<0,000003
78	Minerai	Pegmatite spodumène	2,590	0,981	0,393	0,00179	0,002360	0,00117	1,51	0,000021
79	Minerai	Pegmatite spodumène	1,250	0,431	0,191	0,00111	0,000777	0,00031	0,50	0,000009
80	Stérile	Pegmatite stérile	0,751	0,650	0,444	0,00220	0,000935	0,00030	2,90	0,000015

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
1	Stérile	Amphibolite	0,000183	0,00805	0,002	0,224	62,500	1,360	0,611	0,0075
2	Stérile	Amphibolite	0,000117	0,00196	0,001	0,083	21,900	0,771	5,900	0,0041
3	Stérile	Amphibolite	0,000029	0,00031	0,001	0,009	11,600	0,482	2,420	0,0022
4	Stérile	Amphibolite	0,000303	0,02446	0,001	0,258	3,280	0,690	2,750	0,0145
5	Stérile	Amphibolite	0,000343	0,00367	0,001	0,032	18,800	2,470	8,760	0,0040
6	Stérile	Amphibolite	0,000014	0,00118	0,001	<0,007	1,580	0,464	1,940	0,0017
7	Stérile	Amphibolite	0,000018	0,00105	0,001	0,010	6,130	0,298	2,300	0,0022
8	Stérile	Amphibolite	0,000047	0,00224	0,002	0,057	3,020	0,395	1,830	0,0013
9	Stérile	Amphibolite	0,000030	0,00492	0,001	0,035	0,530	0,068	2,070	0,0010
10	Stérile	Amphibolite	0,000064	0,00027	0,001	0,043	3,270	0,340	6,490	0,0048
11	Stérile	Amphibolite	0,000035	0,00164	0,000	<0,007	6,160	1,030	2,080	0,0009
12	Stérile	Amphibolite	0,000020	0,00144	0,001	<0,007	9,510	0,146	2,150	0,0012
13	Stérile	Amphibolite	0,000053	0,00437	0,001	0,031	9,310	0,457	2,460	0,0011
14	Stérile	Amphibolite	0,000078	0,00257	0,000	0,008	1,800	0,116	2,720	0,0012
15	Stérile	Amphibolite	0,000025	0,00222	0,001	<0,007	8,050	0,247	1,990	0,0009
16	Stérile	Métasédiment	0,000203	<0,00008	0,001	0,012	25,800	1,300	7,750	0,0488
17	Stérile	Amphibolite	0,000320	0,00011	0,001	0,013	41,500	1,100	9,590	0,0411
18	Stérile	Amphibolite	0,000142	0,00179	0,001	0,027	11,100	0,487	4,330	0,0072
19	Stérile	Pegmatite stérile	0,000082	0,00262	0,003	0,022	2,440	0,152	2,280	0,0016
20	Stérile	Amphibolite	0,000502	<0,00008	0,001	0,009	44,000	0,592	16,200	0,0269
21	Stérile	Amphibolite	0,000048	0,00938	0,001	0,008	13,300	0,192	1,860	0,0011
22	Stérile	Amphibolite	0,000188	0,01168	0,001	0,093	3,810	0,684	3,740	0,0025
23	Stérile	Métasédiment	0,001248	<0,00008	0,001	0,012	12,900	0,467	29,200	0,1280
24	Stérile	Amphibolite	0,000076	0,00069	0,001	0,159	11,000	0,075	0,918	0,0022
25	Stérile	Métasédiment	0,000310	0,12200	0,002	0,162	20,000	0,178	7,120	0,0016
26	Stérile	Amphibolite	0,000015	0,00342	0,000	0,013	6,770	0,636	1,400	0,0006
27	Stérile	Amphibolite	0,000074	0,00146	0,001	0,017	6,370	0,116	5,250	0,0045
28	Stérile	Amphibolite	0,000132	0,00207	0,002	0,100	16,800	1,590	7,860	0,0041
29	Stérile	Amphibolite	0,000164	0,00217	0,000	0,116	29,000	1,700	6,350	0,0035
30	Stérile	Amphibolite	0,000052	0,00065	0,004	0,032	8,180	0,415	3,080	0,0019
31	Stérile	Métasédiment	0,000644	0,00191	0,001	0,790	37,900	2,280	0,586	0,0166
32	Stérile	Amphibolite	0,000014	0,00041	0,001	0,015	6,010	0,223	1,520	0,0007
33	Stérile	Amphibolite	0,000029	0,00027	0,001	0,008	7,760	0,366	2,080	0,0017
34	Stérile	Métasédiment	0,001409	0,00063	0,002	1,810	40,300	3,310	0,766	0,0343
35	Stérile	Métasédiment	0,000872	0,00326	0,002	1,440	45,300	1,710	0,752	0,0262
36	Stérile	Ultramafique	0,000932	0,02574	0,000	0,012	5,220	0,348	35,500	0,0007
37	Stérile	Amphibolite	0,000328	0,00053	0,001	0,009	31,100	1,700	6,660	0,0077
38	Stérile	Métasédiment	0,000182	0,00048	0,001	0,287	11,900	0,739	2,070	0,0080
39	Stérile	Métasédiment	0,000215	0,00230	0,001	0,143	24,100	1,200	5,300	0,0065
40	Stérile	Métasédiment	0,000094	0,00064	0,001	0,123	14,500	0,884	1,230	0,0034
41	Stérile	Métasédiment	0,000063	0,00088	0,001	0,105	31,800	0,335	3,420	0,0032
42	Stérile	Métasédiment	0,000043	0,00034	0,000	0,023	30,300	0,443	7,780	0,0121
43	Stérile	Métasédiment	0,000049	0,00056	0,000	0,022	35,500	0,408	5,010	0,0065
44	Stérile	Métasédiment	0,000238	0,00406	0,002	0,254	12,500	0,533	0,262	0,0049
45	Stérile	Métasédiment	0,000090	0,00307	0,002	0,153	17,300	0,015	0,301	0,0024
46	Stérile	Métasédiment	0,000069	0,00251	0,001	0,142	27,300	0,023	0,306	0,0020
47	Stérile	Métasédiment	0,000206	0,00123	0,001	0,414	33,300	0,141	2,140	0,0068
48	Stérile	Métasédiment	0,000150	0,00011	0,000	0,053	2,210	0,362	10,700	0,0047
49	Stérile	Métasédiment	0,000793	0,00206	0,001	0,996	44,800	3,380	0,833	0,0198
50	Stérile	Métasédiment	0,000406	0,00023	0,003	0,034	46,400	1,550	4,510	0,0127
51	Stérile	Métasédiment	0,000225	0,00167	0,001	0,297	16,000	0,705	3,020	0,0069
52	Stérile	Métasédiment	0,000065	0,00090	0,000	0,014	32,100	0,432	4,080	0,0057
53	Stérile	Métasédiment	0,000009	0,00049	0,000	0,033	45,200	0,474	2,290	0,0027
54	Stérile	Métasédiment	0,000190	0,00222	0,002	0,221	36,300	1,960	2,190	0,0057
55	Stérile	Métasédiment	0,000079	0,01934	0,001	0,009	5,690	0,052	6,820	0,0008
56	Stérile	Amphibolite	0,000029	0,00267	0,001	0,016	31,800	0,353	1,550	0,0014
57	Stérile	Métasédiment	0,000061	0,00247	0,002	<0,007	19,300	0,372	3,700	0,0018
58	Stérile	Ultramafique	0,000956	0,03949	0,000	<0,007	4,350	0,083	34,400	0,0010
59	Stérile	Ultramafique	0,000326	0,01177	0,003	0,024	5,540	0,160	16,200	0,0019
60	Stérile	Ultramafique	0,000441	0,00038	0,001	<0,007	14,300	0,281	42,100	0,0015
61	Stérile	Ultramafique	0,000203	0,00269	0,001	<0,007	1,430	0,024	17,400	0,0010
62	Stérile	Ultramafique	0,002068	0,00087	0,002	0,016	2,690	0,029	41,400	0,0027
63	Stérile	Pegmatite stérile	0,000090	0,00726	0,002	0,064	16,200	0,129	0,150	0,0041
64	Stérile	Pegmatite stérile	0,000180	0,00393	0,001	0,120	49,100	1,250	0,290	0,0311
65	Stérile	Pegmatite stérile	0,000026	0,00786	0,002	0,040	43,800	0,310	0,055	0,0052
66	Stérile	Pegmatite stérile	0,000130	0,00783	0,001	0,045	27,000	0,450	0,060	0,0048
67	Stérile	Pegmatite stérile	0,000047	0,00814	0,002	0,038	37,900	0,088	0,034	0,0025
68	Stérile	Pegmatite stérile	0,000294	0,00102	0,001	0,575	42,000	1,690	0,934	0,0125
69	Stérile	Pegmatite stérile	0,000150	0,01460	0,003	0,170	4,590	0,642	0,200	0,0248
70	Stérile	Pegmatite stérile	0,000521	0,01360	0,044	0,142	7,880	0,264	0,145	0,0045
71	Stérile	Pegmatite stérile	0,000201	0,00454	0,002	0,188	16,600	0,871	0,173	0,0172
72	Stérile	Pegmatite stérile	0,001600	0,00260	0,002	0,732	16,300	0,456	0,480	0,0269
73	Stérile	Pegmatite stérile	0,000070	0,00554	0,002	0,060	38,900	1,370	0,040	0,0108
74	Minerai	Pegmatite spodumène	0,000030	0,00227	0,001	0,070	20,600	4,890	0,280	0,0279
75	Minerai	Pegmatite spodumène	0,000014	0,00190	0,001	0,031	9,710	2,900	0,212	0,0065
76	Minerai	Pegmatite spodumène	0,000100	0,00117	0,001	0,090	19,400	3,380	0,300	0,0185
77	Minerai	Pegmatite spodumène	0,000040	0,00134	0,001	0,060	11,600	11,600	0,130	0,0336
78	Minerai	Pegmatite spodumène	0,000381	0,00265	0,002	0,140	19,900	4,090	0,254	0,0287
79	Minerai	Pegmatite spodumène	0,000274	0,00524	0,001	0,588	36,400	1,400	0,332	0,0180
80	Stérile	Pegmatite stérile	0,000180	0,00100	0,002	0,140	33,800	0,955	0,917	0,0093

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
1	Stérile	Amphibolite	0,0012	9,2	0,0008	0,046	<0,00009	0,003	0,00041	0,00008
2	Stérile	Amphibolite	0,0038	25,8	0,0006	0,039	<0,00009	0,076	0,00453	0,00008
3	Stérile	Amphibolite	0,0032	16,8	0,0002	0,009	<0,00009	0,008	0,00124	<0,00006
4	Stérile	Amphibolite	0,0015	20,6	0,0008	0,105	<0,00009	0,028	0,00050	<0,00006
5	Stérile	Amphibolite	0,0012	15,0	0,0016	0,032	<0,00009	0,589	0,00115	<0,00006
6	Stérile	Amphibolite	0,0010	11,6	<0,0001	0,007	<0,00009	0,003	0,00038	<0,00006
7	Stérile	Amphibolite	0,0013	20,1	0,0002	0,029	<0,00009	0,061	0,00110	0,00007
8	Stérile	Amphibolite	0,0009	19,2	0,0003	0,033	<0,00009	0,009	0,00085	<0,00006
9	Stérile	Amphibolite	0,0007	12,3	0,0002	0,029	<0,00009	0,004	0,00274	<0,00006
10	Stérile	Amphibolite	0,0023	18,2	0,0003	0,039	<0,00009	0,076	0,00313	<0,00006
11	Stérile	Amphibolite	0,0007	24,9	0,0002	0,009	<0,00009	0,269	0,00051	0,00007
12	Stérile	Amphibolite	0,0023	17,1	0,0002	<0,003	<0,00009	0,042	0,00104	0,00007
13	Stérile	Amphibolite	0,0012	22,1	0,0003	0,008	<0,00009	0,165	0,00079	0,00008
14	Stérile	Amphibolite	0,0015	34,7	0,0003	0,011	<0,00009	0,265	0,00172	0,00010
15	Stérile	Amphibolite	0,0010	16,9	0,0002	0,004	<0,00009	0,043	0,00168	<0,00006
16	Stérile	Métasédiment	0,0032	31,3	0,0003	0,007	0,00255	0,032	0,00064	0,00018
17	Stérile	Amphibolite	0,0028	24,7	0,0006	0,007	0,00010	0,146	0,00022	<0,00006
18	Stérile	Amphibolite	0,0116	21,3	0,0004	0,013	<0,00009	0,391	0,00326	0,00007
19	Stérile	Pegmatite stérile	0,0011	29,0	0,0004	0,011	0,00010	0,008	0,00123	0,00014
20	Stérile	Amphibolite	0,0053	18,2	0,0015	0,006	<0,00009	0,004	0,00039	<0,00006
21	Stérile	Amphibolite	0,0011	13,1	0,0003	0,014	<0,00009	0,010	0,00059	0,00009
22	Stérile	Amphibolite	0,0048	25,2	0,0009	0,047	0,00015	0,199	0,00097	0,00012
23	Stérile	Métasédiment	0,0129	35,4	0,0038	<0,003	<0,00009	0,040	0,00196	0,00008
24	Stérile	Amphibolite	0,0022	23,0	0,0003	0,082	<0,00009	0,003	0,00053	0,00008
25	Stérile	Métasédiment	0,0027	4,8	0,0029	0,028	<0,00009	0,067	0,00077	0,00007
26	Stérile	Amphibolite	0,0016	15,8	0,0002	0,011	<0,00009	0,037	0,00038	<0,00006
27	Stérile	Amphibolite	0,0058	40,3	0,0005	0,019	<0,00009	0,029	0,00298	<0,00006
28	Stérile	Amphibolite	0,0141	23,9	0,0004	0,044	0,00011	0,236	0,00251	0,00011
29	Stérile	Amphibolite	0,0067	24,6	0,0003	0,033	0,00014	0,550	0,00206	<0,00006
30	Stérile	Amphibolite	0,0037	26,7	<0,0001	0,022	<0,00009	0,007	0,00111	<0,00006
31	Stérile	Métasédiment	0,0049	13,0	0,0009	0,092	0,00038	0,099	0,00018	0,00052
32	Stérile	Amphibolite	0,0011	13,0	<0,0001	0,019	<0,00009	0,013	0,00069	<0,00006
33	Stérile	Amphibolite	0,0019	18,4	0,0002	0,009	<0,00009	0,034	0,00111	0,00007
34	Stérile	Métasédiment	0,0041	12,8	0,0021	0,095	0,00225	0,186	0,00083	0,00055
35	Stérile	Métasédiment	0,0039	11,3	0,0019	0,114	0,00069	0,014	0,00077	0,00009
36	Stérile	Ultramafique	0,0008	5,9	0,0728	0,017	<0,00009	9,760	0,00065	0,00007
37	Stérile	Amphibolite	0,0231	13,7	0,0014	0,012	<0,00009	3,070	0,00143	0,00012
38	Stérile	Métasédiment	0,0053	37,6	0,0020	0,030	<0,00009	0,039	0,00026	0,00032
39	Stérile	Métasédiment	0,0084	23,1	0,0009	0,032	0,00050	0,265	0,00214	0,00008
40	Stérile	Métasédiment	0,0032	41,8	0,0011	0,012	<0,00009	0,219	0,00045	<0,00006
41	Stérile	Métasédiment	0,0033	27,7	0,0004	0,006	<0,00009	0,010	0,00031	<0,00006
42	Stérile	Métasédiment	0,0031	28,4	0,0002	0,011	<0,00009	0,014	0,00080	0,00007
43	Stérile	Métasédiment	0,0021	26,7	0,0003	0,013	<0,00009	0,009	0,00062	<0,00006
44	Stérile	Métasédiment	0,0022	39,2	0,0007	0,112	0,00025	0,009	0,00023	<0,00006
45	Stérile	Métasédiment	0,0017	31,7	0,0004	0,091	0,00010	0,002	0,00018	<0,00006
46	Stérile	Métasédiment	0,0022	28,0	0,0002	0,044	<0,00009	0,001	0,00026	<0,00006
47	Stérile	Métasédiment	0,0062	31,8	0,0006	0,025	0,00035	0,003	0,00243	<0,00006
48	Stérile	Métasédiment	0,0026	19,0	0,0002	0,016	<0,00009	0,044	0,00099	0,00007
49	Stérile	Métasédiment	0,0040	11,4	0,0008	0,029	0,00024	0,063	0,00008	0,00047
50	Stérile	Métasédiment	0,0157	23,6	0,0005	0,005	<0,00009	0,761	0,00882	<0,00006
51	Stérile	Métasédiment	0,0066	49,6	0,0011	0,032	0,00059	0,035	0,00220	0,00017
52	Stérile	Métasédiment	0,0048	28,4	0,0009	<0,003	<0,00009	0,022	0,00017	<0,00006
53	Stérile	Métasédiment	0,0021	21,2	0,0002	0,037	<0,00009	0,005	<0,00004	<0,00006
54	Stérile	Métasédiment	0,0053	30,0	0,0005	0,049	0,00031	0,233	0,00091	0,00008
55	Stérile	Métasédiment	0,0030	15,5	0,0009	0,008	<0,00009	0,040	0,00017	<0,00006
56	Stérile	Amphibolite	0,0021	13,9	0,0002	0,015	<0,00009	0,004	0,00023	<0,00006
57	Stérile	Métasédiment	0,0022	14,9	0,0003	0,038	<0,00009	0,002	0,00284	<0,00006
58	Stérile	Ultramafique	0,0017	11,4	0,0185	0,012	<0,00009	3,030	0,00035	<0,00006
59	Stérile	Ultramafique	0,0015	13,4	0,0031	0,034	<0,00009	0,097	0,00178	<0,00006
60	Stérile	Ultramafique	0,0028	3,4	0,0577	0,024	<0,00009	15,300	0,00123	<0,00006
61	Stérile	Ultramafique	0,0025	4,2	0,0020	0,013	<0,00009	0,900	0,00073	<0,00006
62	Stérile	Ultramafique	0,0043	3,0	0,1130	0,027	<0,00009	28,800	0,00193	<0,00006
63	Stérile	Pegmatite stérile	0,0061	49,7	0,0007	0,408	0,00050	0,232	0,00058	0,00025
64	Stérile	Pegmatite stérile	0,0034	20,3	0,0007	1,150	0,00069	0,247	0,00034	0,00487
65	Stérile	Pegmatite stérile	0,0025	20,3	0,0003	0,709	0,00068	0,154	0,00018	0,00019
66	Stérile	Pegmatite stérile	0,0026	30,9	0,0003	0,455	0,00041	0,193	0,00026	0,00055
67	Stérile	Pegmatite stérile	0,0038	26,4	0,0004	0,509	0,00026	0,052	0,00005	0,00011
68	Stérile	Pegmatite stérile	0,0017	23,5	0,0004	0,231	0,00061	0,317	0,00044	0,00047
69	Stérile	Pegmatite stérile	0,0073	68,0	0,0004	0,770	0,00070	0,117	0,00029	0,00105
70	Stérile	Pegmatite stérile	0,0065	67,2	0,0003	0,418	0,00114	0,188	0,00218	0,00067
71	Stérile	Pegmatite stérile	0,0047	46,3	0,0004	1,840	0,00114	0,375	0,00071	0,00125
72	Stérile	Pegmatite stérile	0,0023	46,4	0,0016	0,399	0,00802	0,144	0,00256	0,00200
73	Stérile	Pegmatite stérile	0,0085	21,0	<0,0001	0,350	0,00029	0,124	<0,00004	0,00107
74	Minerai	Pegmatite spodumène	0,0012	33,6	0,0007	1,700	0,00035	0,683	<0,00004	0,00277
75	Minerai	Pegmatite spodumène	0,0016	49,9	0,0003	0,429	0,00027	0,452	0,00023	0,00042
76	Minerai	Pegmatite spodumène	0,0030	41,1	0,0003	0,620	0,00046	0,077	0,00017	0,00226
77	Minerai	Pegmatite spodumène	0,0020	20,3	0,0003	1,100	<0,00009	0,140	<0,00004	0,00208
78	Minerai	Pegmatite spodumène	0,0035	41,2	0,0003	1,490	0,00063	0,144	0,00059	0,00142
79	Minerai	Pegmatite spodumène	0,0025	26,9	0,0005	0,849	0,00054	0,122	0,00007	0,00093
80	Stérile	Pegmatite stérile	0,0027	36,1	0,0007	0,141	0,00042	0,208	0,00067	0,00102

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
1	Stérile	Amphibolite	0,00415	0,000009	0,000052	0,0194	0,1170	<0,002
2	Stérile	Amphibolite	0,04060	0,000035	0,000534	0,0037	0,0089	<0,002
3	Stérile	Amphibolite	0,00987	0,000011	0,000053	0,0006	0,0355	<0,002
4	Stérile	Amphibolite	0,00543	0,000021	0,000789	0,0070	0,0944	<0,002
5	Stérile	Amphibolite	0,02780	0,000229	0,000075	0,0009	0,0150	<0,002
6	Stérile	Amphibolite	0,01260	<0,000005	0,000198	0,0001	0,0365	<0,002
7	Stérile	Amphibolite	0,01090	0,000023	0,000444	0,0004	0,0543	<0,002
8	Stérile	Amphibolite	0,00788	0,000008	0,000029	0,0018	0,0745	<0,002
9	Stérile	Amphibolite	0,00584	<0,000005	0,000019	0,0018	0,0906	<0,002
10	Stérile	Amphibolite	0,01680	0,000010	0,000421	0,0014	0,0139	<0,002
11	Stérile	Amphibolite	0,01060	0,000019	0,000025	0,0004	0,0521	<0,002
12	Stérile	Amphibolite	0,01560	0,000008	0,000596	0,0003	0,0405	<0,002
13	Stérile	Amphibolite	0,02090	0,000064	0,000078	0,0012	0,0480	<0,002
14	Stérile	Amphibolite	0,01220	0,000022	0,000079	0,0004	0,0552	<0,002
15	Stérile	Amphibolite	0,01010	0,000023	0,000692	0,0002	0,0433	<0,002
16	Stérile	Métasédiment	0,08600	0,000022	0,000154	0,0006	0,0020	0,036
17	Stérile	Amphibolite	0,07970	0,000011	0,000087	0,0004	0,0027	0,013
18	Stérile	Amphibolite	0,02150	0,000044	0,000550	0,0008	0,0243	<0,002
19	Stérile	Pegmatite stérile	0,01210	<0,000005	0,000030	0,0006	0,0582	<0,002
20	Stérile	Amphibolite	0,10500	0,000006	0,000324	0,0003	0,0009	<0,002
21	Stérile	Amphibolite	0,00901	0,000007	0,000106	0,0002	0,0665	<0,002
22	Stérile	Amphibolite	0,02060	0,000045	0,000530	0,0032	0,0438	<0,002
23	Stérile	Métasédiment	0,13700	0,000020	0,004430	0,0005	0,0008	<0,002
24	Stérile	Amphibolite	0,01210	0,000008	0,001420	0,0085	0,0444	<0,002
25	Stérile	Métasédiment	0,01580	0,000030	0,000266	0,0041	0,0466	<0,002
26	Stérile	Amphibolite	0,00549	0,000017	0,000013	0,0004	0,0513	<0,002
27	Stérile	Amphibolite	0,03430	0,000017	0,001470	0,0007	0,0231	<0,002
28	Stérile	Amphibolite	0,02400	0,000040	0,004320	0,0040	0,0214	<0,002
29	Stérile	Amphibolite	0,03770	0,000055	0,000162	0,0060	0,0121	<0,002
30	Stérile	Amphibolite	0,01200	0,000010	0,000500	0,0014	0,0373	<0,002
31	Stérile	Métasédiment	0,01180	0,000660	0,001680	0,0894	0,0700	0,003
32	Stérile	Amphibolite	0,00427	0,000014	0,000074	0,0006	0,0758	<0,002
33	Stérile	Amphibolite	0,00758	0,000021	0,000066	0,0003	0,0338	<0,002
34	Stérile	Métasédiment	0,00474	0,001050	0,002780	0,1440	0,0333	0,007
35	Stérile	Métasédiment	0,00357	0,000041	0,001980	0,1120	0,0642	0,005
36	Stérile	Ultramafique	0,02800	0,000161	0,000542	0,0007	0,0362	<0,002
37	Stérile	Amphibolite	0,03140	0,001820	0,002770	0,0007	0,0093	<0,002
38	Stérile	Métasédiment	0,01390	0,000191	0,003840	0,0177	0,0105	<0,002
39	Stérile	Métasédiment	0,02790	0,000142	0,001300	0,0066	0,0103	<0,002
40	Stérile	Métasédiment	0,01350	0,000008	0,005380	0,0078	0,0202	<0,002
41	Stérile	Métasédiment	0,02300	<0,000005	0,000261	0,0062	0,0118	<0,002
42	Stérile	Métasédiment	0,05550	0,000024	0,000412	0,0012	0,0033	<0,002
43	Stérile	Métasédiment	0,05090	0,000061	0,000637	0,0017	0,0065	<0,002
44	Stérile	Métasédiment	0,00455	0,000060	0,010800	0,0189	0,1130	<0,002
45	Stérile	Métasédiment	0,00570	0,000010	0,004610	0,0141	0,1030	<0,002
46	Stérile	Métasédiment	0,00505	0,000014	0,005780	0,0122	0,0944	<0,002
47	Stérile	Métasédiment	0,00566	0,000008	0,004260	0,0287	0,0136	0,004
48	Stérile	Métasédiment	0,03510	0,000018	0,000246	0,0011	0,0079	<0,002
49	Stérile	Métasédiment	0,00326	0,001572	0,001320	0,0626	0,0464	<0,002
50	Stérile	Métasédiment	0,02580	0,000266	0,008710	0,0021	0,0044	0,004
51	Stérile	Métasédiment	0,01470	0,000022	0,001160	0,0165	0,0226	<0,002
52	Stérile	Métasédiment	0,02710	<0,000005	0,007760	0,0007	0,0051	<0,002
53	Stérile	Métasédiment	0,01990	0,000009	0,001350	0,0020	0,0217	<0,002
54	Stérile	Métasédiment	0,01380	0,000028	0,007610	0,0165	0,0212	<0,002
55	Stérile	Métasédiment	0,01170	<0,000005	0,000376	0,0002	0,0360	<0,002
56	Stérile	Amphibolite	0,00901	0,000008	0,000420	0,0006	0,0563	<0,002
57	Stérile	Métasédiment	0,02530	0,000008	0,000560	0,0027	0,0292	<0,002
58	Stérile	Ultramafique	0,04950	0,000062	0,000271	0,0001	0,0062	<0,002
59	Stérile	Ultramafique	0,08180	0,000014	0,009680	0,0004	0,0116	<0,002
60	Stérile	Ultramafique	0,02800	0,001059	0,000598	0,0007	0,0048	<0,002
61	Stérile	Ultramafique	0,04350	0,000015	0,000083	0,0007	0,0083	<0,002
62	Stérile	Ultramafique	0,03090	0,000055	0,001240	0,0010	0,0071	<0,002
63	Stérile	Pegmatite stérile	0,00106	0,000963	0,062000	0,0005	0,0077	<0,002
64	Stérile	Pegmatite stérile	0,00197	0,004420	0,023100	0,0046	0,0042	0,004
65	Stérile	Pegmatite stérile	0,00125	0,002150	0,004750	0,0003	0,0032	<0,002
66	Stérile	Pegmatite stérile	0,00065	0,001350	0,026900	0,0005	0,0038	<0,002
67	Stérile	Pegmatite stérile	0,00078	0,001740	0,000963	0,0002	0,0039	<0,002
68	Stérile	Pegmatite stérile	0,00327	0,002250	0,024500	0,0079	0,1380	0,003
69	Stérile	Pegmatite stérile	0,00207	0,000370	0,069400	0,0022	0,0075	<0,002
70	Stérile	Pegmatite stérile	0,00148	0,000547	0,027100	0,0006	0,0100	0,005
71	Stérile	Pegmatite stérile	0,00165	0,001020	0,046400	0,0022	0,0200	0,003
72	Stérile	Pegmatite stérile	0,00210	0,001790	0,081700	0,0072	0,0441	0,032
73	Stérile	Pegmatite stérile	0,00074	0,001180	0,080500	0,0015	0,0028	<0,002
74	Minerai	Pegmatite spodumène	0,00074	0,001860	0,019900	0,0033	0,0024	<0,002
75	Minerai	Pegmatite spodumène	0,00082	0,000600	0,032600	0,0004	0,0028	<0,002
76	Minerai	Pegmatite spodumène	0,00340	0,000950	0,013200	0,0018	0,0027	<0,002
77	Minerai	Pegmatite spodumène	0,00187	0,001000	0,046000	0,0020	0,0012	<0,002
78	Minerai	Pegmatite spodumène	0,00402	0,001410	0,011300	0,0017	0,0108	0,003
79	Minerai	Pegmatite spodumène	0,00144	0,001790	0,055600	0,0148	0,0028	<0,002
80	Stérile	Pegmatite stérile	0,00493	0,001370	0,019500	0,0021	0,0061	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
81	Minerai	Pegmatite spodumène	9,3	171	77	<2,0	<20,0	NA	0,00007	0,0001
82	Minerai	Pegmatite spodumène	8,5	214	108	<2,0	<20,0	<20,0	<0,00001	<0,00005
83	Résidu	Résidu DMS	9,2	65	179	<2,0	<20,0	<20,0	<0,00001	<0,0005
84	Résidu	Résidu DMS	8,8	61	176	<2,0	20	<20,0	<0,00001	<0,0005
VIS-CV5-AMP-085	Stérile	Amphibolite	9,34	57,00	138,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-086	Stérile	Amphibolite	9,40	59,00	148,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-087	Stérile	Amphibolite	9,40	49,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-088	Stérile	Amphibolite	8,70	44,00	201,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-089	Stérile	Amphibolite	8,99	61,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-090	Stérile	Amphibolite	8,65	54,00	296,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-AMP-091	Stérile	Amphibolite	9,33	50,00	137,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-092	Stérile	Amphibolite	9,45	61,00	112,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-093	Stérile	Amphibolite	9,05	67,00	249,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-094	Stérile	Amphibolite	9,40	55,00	141,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-095	Stérile	Amphibolite	9,22	50,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-096	Stérile	Amphibolite	9,10	48,00	150,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-097	Stérile	Amphibolite	8,76	58,00	214,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-AMP-098	Stérile	Amphibolite	8,99	54,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-099	Stérile	Amphibolite	9,00	62,00	168,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-100	Stérile	Amphibolite	8,51	57,00	542,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-AMP-101	Stérile	Amphibolite	8,12	70,00	405,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-102	Stérile	Amphibolite	8,70	50,00	235,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-103	Stérile	Amphibolite	8,66	50,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-104	Stérile	Amphibolite	8,95	69,00	201,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-105	Stérile	Amphibolite	8,86	49,00	269,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-106	Stérile	Amphibolite	5,67	2,00	1270,00	293,00	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-107	Stérile	Amphibolite	8,09	49,00	474,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-108	Stérile	Amphibolite	9,04	71,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-109	Stérile	Amphibolite	8,12	38,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-110	Stérile	Amphibolite	8,80	58,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-111	Stérile	Amphibolite	8,43	62,00	257,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-112	Stérile	Amphibolite	9,07	53,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-113	Stérile	Amphibolite	8,87	65,00	218,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-114	Stérile	Amphibolite	8,77	56,00	195,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-115	Stérile	Amphibolite	8,32	50,00	376,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-116	Stérile	Amphibolite	8,83	56,00	147,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-117	Stérile	Amphibolite	8,65	51,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-118	Stérile	Amphibolite	9,05	48,00	137,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-119	Stérile	Amphibolite	9,27	61,00	154,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-120	Stérile	Amphibolite	8,14	47,00	172,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-121	Stérile	Amphibolite	8,21	37,00	120,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-122	Stérile	Amphibolite	8,40	63,00	291,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-123	Stérile	Amphibolite	9,07	70,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-124	Stérile	Amphibolite	9,33	65,00	176,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-125	Stérile	Amphibolite	8,92	51,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-126	Stérile	Amphibolite	9,29	64,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-127	Stérile	Amphibolite	8,13	46,00	145,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-128	Stérile	Amphibolite	9,02	45,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-129	Stérile	Amphibolite	9,06	51,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-130	Stérile	Amphibolite	7,94	39,00	122,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-131	Stérile	Amphibolite	8,18	45,00	158,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-132	Stérile	Amphibolite	8,09	45,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-133	Stérile	Amphibolite	9,11	57,00	237,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-134	Stérile	Amphibolite	8,90	60,00	303,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-135	Stérile	Amphibolite	9,36	64,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-136	Stérile	Amphibolite	9,41	55,00	140,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-137	Stérile	Amphibolite	9,01	56,00	166,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-138	Stérile	Amphibolite	9,17	57,00	141,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-139	Stérile	Amphibolite	9,02	55,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-140	Stérile	Amphibolite	8,99	53,00	228,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-141	Stérile	Amphibolite	8,81	74,00	203,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-142	Stérile	Amphibolite	9,20	42,00	148,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-143	Stérile	Amphibolite	8,72	55,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00006
VIS-CV5-AMP-144	Stérile	Amphibolite	8,85	49,00	157,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-145	Stérile	Amphibolite	9,16	49,00	143,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-146	Stérile	Amphibolite	9,44	54,00	165,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-147	Stérile	Amphibolite	9,13	42,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-148	Stérile	Amphibolite	9,02	46,00	120,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-149	Stérile	Amphibolite	8,97	53,00	163,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-150	Stérile	Amphibolite	8,48	51,00	215,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-AMP-151	Stérile	Amphibolite	8,45	45,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
81	Minerai	Pegmatite spodumène	5,960	1,560	0,328	0,00107	0,001070	0,00064	0,48	0,000027
82	Minerai	Pegmatite spodumène	5,480	0,132	0,187	0,00299	0,007940	0,00017	1,16	<0,000003
83	Résidu	Résidu DMS	0,610	0,954	0,170	0,00224	0,000410	0,00180	1,20	<0,00003
84	Résidu	Résidu DMS	0,560	0,869	0,130	0,00159	0,000730	0,00183	1,10	<0,00003
VIS-CV5-AMP-085	Stérile	Amphibolite	0,74	0,01	0,10	0,00077	<0,000007	<0,00001	5,28	0,000005
VIS-CV5-AMP-086	Stérile	Amphibolite	0,46	0,02	0,11	0,00151	<0,000007	<0,00001	4,77	0,000005
VIS-CV5-AMP-087	Stérile	Amphibolite	0,76	0,01	0,10	0,00065	<0,000007	<0,00001	4,58	0,000004
VIS-CV5-AMP-088	Stérile	Amphibolite	0,21	0,01	0,10	0,00132	<0,000007	<0,00001	11,90	0,000008
VIS-CV5-AMP-089	Stérile	Amphibolite	0,55	0,00	0,07	0,00511	<0,000007	<0,00001	6,57	0,000008
VIS-CV5-AMP-090	Stérile	Amphibolite	0,14	0,07	0,15	0,00246	0,000014	<0,00001	13,10	0,000007
VIS-CV5-AMP-091	Stérile	Amphibolite	0,67	0,01	0,07	0,00137	<0,000007	<0,00001	4,92	0,000003
VIS-CV5-AMP-092	Stérile	Amphibolite	0,29	0,16	0,05	0,00079	0,000008	<0,00001	3,64	0,000004
VIS-CV5-AMP-093	Stérile	Amphibolite	0,43	0,12	0,11	0,00393	0,000023	<0,00001	7,85	0,000004
VIS-CV5-AMP-094	Stérile	Amphibolite	1,51	0,07	0,09	0,00826	0,000050	<0,00001	2,78	0,000010
VIS-CV5-AMP-095	Stérile	Amphibolite	0,40	0,17	0,09	0,00089	<0,000007	<0,00001	5,76	0,000010
VIS-CV5-AMP-096	Stérile	Amphibolite	0,49	0,38	0,09	0,00132	0,000011	<0,00001	5,84	0,000006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,22	0,40	0,16	0,00231	0,000016	<0,00001	8,32	0,000006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,22	0,12	0,15	0,00168	0,000038	<0,00001	9,64	0,000006
VIS-CV5-AMP-099	Stérile	Amphibolite	0,87	0,03	0,12	0,00316	0,000024	0,000020	3,72	0,000010
VIS-CV5-AMP-100	Stérile	Amphibolite	0,12	0,41	0,16	0,00530	0,000025	0,000140	21,40	0,000029
VIS-CV5-AMP-101	Stérile	Amphibolite	0,13	0,03	0,12	0,00578	0,000012	<0,00001	18,10	0,000006
VIS-CV5-AMP-102	Stérile	Amphibolite	1,77	0,04	0,13	0,00965	0,000074	0,000020	5,05	0,000022
VIS-CV5-AMP-103	Stérile	Amphibolite	0,25	0,04	0,16	0,00484	0,000053	<0,00001	12,50	0,000023
VIS-CV5-AMP-104	Stérile	Amphibolite	0,62	0,55	0,12	0,00455	0,000077	<0,00001	5,21	0,000005
VIS-CV5-AMP-105	Stérile	Amphibolite	0,00	0,00	0,10	0,01560	0,000010	<0,00001	93,40	0,000013
VIS-CV5-AMP-106	Stérile	Amphibolite	0,22	0,25	0,10	0,00095	<0,000007	<0,00001	6,60	<0,000003
VIS-CV5-AMP-107	Stérile	Amphibolite	0,25	0,02	0,15	0,00117	<0,000007	<0,00001	6,52	<0,000003
VIS-CV5-AMP-108	Stérile	Amphibolite	0,63	0,01	0,07	0,00270	0,000017	<0,00001	11,80	<0,000003
VIS-CV5-AMP-109	Stérile	Amphibolite	0,56	0,04	0,07	0,00178	0,000018	<0,00001	15,10	<0,000003
VIS-CV5-AMP-110	Stérile	Amphibolite	0,35	0,29	0,15	0,00537	0,000019	<0,00001	5,86	0,000007
VIS-CV5-AMP-111	Stérile	Amphibolite	0,42	0,24	0,14	0,00318	0,000024	<0,00001	8,71	0,000005
VIS-CV5-AMP-112	Stérile	Amphibolite	0,51	0,20	0,13	0,00265	0,000072	<0,00001	4,84	<0,000003
VIS-CV5-AMP-113	Stérile	Amphibolite	0,21	1,53	0,16	0,00268	0,000042	<0,00001	8,36	0,000007
VIS-CV5-AMP-114	Stérile	Amphibolite	0,31	1,15	0,13	0,00252	0,000072	<0,00001	7,43	<0,000003
VIS-CV5-AMP-115	Stérile	Amphibolite	0,05	0,18	0,12	0,00432	0,000013	<0,00001	25,10	0,000004
VIS-CV5-AMP-116	Stérile	Amphibolite	0,50	0,31	0,18	0,00206	0,000014	<0,00001	3,85	<0,000003
VIS-CV5-AMP-117	Stérile	Amphibolite	0,12	3,29	0,08	0,00190	0,000020	<0,00001	9,20	<0,000003
VIS-CV5-AMP-118	Stérile	Amphibolite	0,36	0,17	0,10	0,00192	0,000009	<0,00001	5,58	0,000004
VIS-CV5-AMP-119	Stérile	Amphibolite	0,87	0,04	0,05	0,00469	0,000018	<0,00001	4,49	<0,000003
VIS-CV5-AMP-120	Stérile	Amphibolite	0,37	0,11	0,08	0,00135	0,000012	<0,00001	7,97	<0,000003
VIS-CV5-AMP-121	Stérile	Amphibolite	0,81	0,01	0,06	0,00064	<0,000007	<0,00001	5,43	<0,000003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,48	0,03	0,11	0,00598	0,000028	0,000020	10,50	0,000012
VIS-CV5-AMP-123	Stérile	Amphibolite	0,25	0,06	0,13	0,00132	0,000071	0,000020	6,09	<0,000003
VIS-CV5-AMP-124	Stérile	Amphibolite	0,58	0,16	0,17	0,00132	0,000014	<0,00001	3,74	<0,000003
VIS-CV5-AMP-125	Stérile	Amphibolite	0,44	0,17	0,13	0,00347	0,000052	<0,00001	8,16	0,000009
VIS-CV5-AMP-126	Stérile	Amphibolite	2,34	0,48	0,16	0,00439	0,000178	0,000050	3,32	0,000020
VIS-CV5-AMP-127	Stérile	Amphibolite	0,90	0,09	0,11	0,00104	0,000008	<0,00001	5,12	<0,000003
VIS-CV5-AMP-128	Stérile	Amphibolite	0,52	0,02	0,07	0,00083	<0,000007	<0,00001	7,36	0,000005
VIS-CV5-AMP-129	Stérile	Amphibolite	0,35	0,19	0,08	0,00138	<0,000007	<0,00001	8,64	<0,000003
VIS-CV5-AMP-130	Stérile	Amphibolite	0,41	0,07	0,08	0,00095	<0,000007	<0,00001	6,31	<0,000003
VIS-CV5-AMP-131	Stérile	Amphibolite	0,90	0,05	0,08	0,00139	<0,000007	<0,00001	6,74	<0,000003
VIS-CV5-AMP-132	Stérile	Amphibolite	0,36	0,01	0,08	0,00473	<0,000007	<0,00001	5,30	<0,000003
VIS-CV5-AMP-133	Stérile	Amphibolite	0,51	0,01	0,13	0,00241	<0,000007	<0,00001	8,07	<0,000003
VIS-CV5-AMP-134	Stérile	Amphibolite	0,28	0,04	0,07	0,00170	<0,000007	<0,00001	15,60	<0,000003
VIS-CV5-AMP-135	Stérile	Amphibolite	0,32	0,89	0,12	0,00154	<0,000007	<0,00001	5,45	0,000004
VIS-CV5-AMP-136	Stérile	Amphibolite	0,78	0,07	0,09	0,00075	<0,000007	<0,00001	4,33	<0,000003
VIS-CV5-AMP-137	Stérile	Amphibolite	0,41	0,95	0,21	0,00139	<0,000007	0,000020	6,29	<0,000003
VIS-CV5-AMP-138	Stérile	Amphibolite	0,77	0,14	0,11	0,00108	0,000011	<0,00001	4,56	<0,000003
VIS-CV5-AMP-139	Stérile	Amphibolite	1,13	0,24	0,21	0,00265	0,000009	<0,00001	4,40	<0,000003
VIS-CV5-AMP-140	Stérile	Amphibolite	0,18	0,01	0,06	0,00108	<0,000007	<0,00001	14,90	<0,000003
VIS-CV5-AMP-141	Stérile	Amphibolite	0,41	0,07	0,09	0,00178	0,000018	<0,00001	7,65	0,000007
VIS-CV5-AMP-142	Stérile	Amphibolite	1,22	0,01	0,06	0,00181	0,000009	0,000020	5,89	0,000008
VIS-CV5-AMP-143	Stérile	Amphibolite	0,24	0,30	0,15	0,00172	<0,000007	<0,00001	10,20	<0,000003
VIS-CV5-AMP-144	Stérile	Amphibolite	0,56	0,07	0,12	0,00106	<0,000007	<0,00001	6,61	<0,000003
VIS-CV5-AMP-145	Stérile	Amphibolite	1,20	0,03	0,11	0,00084	<0,000007	<0,00001	6,30	0,000009
VIS-CV5-AMP-146	Stérile	Amphibolite	0,91	0,24	0,10	0,00192	0,000017	0,000020	4,98	0,000077
VIS-CV5-AMP-147	Stérile	Amphibolite	0,11	0,02	0,10	0,00108	<0,000007	<0,00001	5,18	<0,000003
VIS-CV5-AMP-148	Stérile	Amphibolite	0,95	0,02	0,07	0,00052	<0,000007	<0,00001	4,16	<0,000003
VIS-CV5-AMP-149	Stérile	Amphibolite	0,50	0,56	0,08	0,00148	0,000024	0,000030	6,62	0,000004
VIS-CV5-AMP-150	Stérile	Amphibolite	0,50	0,17	0,16	0,00232	0,000042	0,000020	9,77	0,000004
VIS-CV5-AMP-151	Stérile	Amphibolite	0,20	0,06	0,09	0,00093	<0,000007	<0,00001	6,28	<0,000003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
81	Minerai	Pegmatite spodumène	0,000102	0,00512	0,001	0,170	7,340	5,370	0,092	0,0570
82	Minerai	Pegmatite spodumène	0,000390	0,00105	0,002	0,370	25,800	1,220	0,220	0,0593
83	Résidu	Résidu DMS	0,000060	0,00320	0,002	0,070	19,900	0,277	0,660	0,0051
84	Résidu	Résidu DMS	0,000090	0,00230	0,002	0,070	18,500	0,362	0,120	0,0082
VIS-CV5-AMP-085	Stérile	Amphibolite	0,000052	0,00375	0,001	0,240	4,49	0,17	3,28	0,0016
VIS-CV5-AMP-086	Stérile	Amphibolite	0,000144	0,00242	0,001	0,270	9,02	0,14	1,86	0,0033
VIS-CV5-AMP-087	Stérile	Amphibolite	0,000044	0,00097	0,001	0,150	3,07	0,67	1,68	0,0009
VIS-CV5-AMP-088	Stérile	Amphibolite	0,000039	0,00093	0,001	0,160	1,67	0,31	4,51	0,0010
VIS-CV5-AMP-089	Stérile	Amphibolite	0,000240	0,00174	0,001	0,510	11,80	0,05	3,45	0,0028
VIS-CV5-AMP-090	Stérile	Amphibolite	0,000247	0,00222	0,001	0,560	5,57	0,46	6,17	0,0024
VIS-CV5-AMP-091	Stérile	Amphibolite	0,000039	0,00027	0,001	0,320	5,61	0,36	2,12	0,0011
VIS-CV5-AMP-092	Stérile	Amphibolite	0,000410	0,01240	0,001	0,350	2,49	0,06	5,60	0,0028
VIS-CV5-AMP-093	Stérile	Amphibolite	0,000500	0,00214	0,001	2,670	14,10	1,43	3,49	0,0092
VIS-CV5-AMP-094	Stérile	Amphibolite	0,001168	0,01210	0,004	2,960	10,00	1,97	1,69	0,0231
VIS-CV5-AMP-095	Stérile	Amphibolite	0,000143	0,00450	0,001	0,890	2,83	0,86	1,98	0,0027
VIS-CV5-AMP-096	Stérile	Amphibolite	0,000109	0,00265	0,001	1,530	4,54	1,57	2,04	0,0016
VIS-CV5-AMP-097	Stérile	Amphibolite	0,000388	0,00384	0,001	1,010	6,89	0,88	3,12	0,0048
VIS-CV5-AMP-098	Stérile	Amphibolite	0,000291	0,00161	0,001	0,730	4,58	0,36	3,60	0,0047
VIS-CV5-AMP-099	Stérile	Amphibolite	0,000594	0,01060	0,002	1,260	12,90	1,63	1,51	0,0128
VIS-CV5-AMP-100	Stérile	Amphibolite	0,000246	0,00282	0,002	14,200	33,80	6,19	16,10	0,0045
VIS-CV5-AMP-101	Stérile	Amphibolite	0,000116	0,00046	0,001	2,360	16,60	1,76	8,77	0,0038
VIS-CV5-AMP-102	Stérile	Amphibolite	0,001320	0,00428	0,002	2,140	25,10	2,43	2,34	0,0313
VIS-CV5-AMP-103	Stérile	Amphibolite	0,000227	0,00151	0,001	1,340	9,21	1,06	4,97	0,0046
VIS-CV5-AMP-104	Stérile	Amphibolite	0,000510	0,00238	0,001	4,440	11,30	1,74	2,08	0,0096
VIS-CV5-AMP-105	Stérile	Amphibolite	0,001000	0,00030	0,001	0,320	5,10	1,18	59,00	0,2250
VIS-CV5-AMP-106	Stérile	Amphibolite	0,000025	0,00150	0,001	0,410	2,66	0,63	1,70	0,0005
VIS-CV5-AMP-107	Stérile	Amphibolite	0,000015	0,00099	0,001	0,490	3,20	0,95	1,41	0,0003
VIS-CV5-AMP-108	Stérile	Amphibolite	0,000015	0,00071	0,001	1,390	1,97	1,25	2,42	0,0013
VIS-CV5-AMP-109	Stérile	Amphibolite	0,000062	0,00137	0,001	0,370	3,44	1,62	4,31	0,0019
VIS-CV5-AMP-110	Stérile	Amphibolite	0,000159	0,00315	0,001	1,070	10,10	0,85	2,42	0,0040
VIS-CV5-AMP-111	Stérile	Amphibolite	0,000465	0,00487	0,003	1,200	11,10	1,05	5,89	0,0103
VIS-CV5-AMP-112	Stérile	Amphibolite	0,000262	0,00390	0,001	2,930	8,00	1,34	1,85	0,0059
VIS-CV5-AMP-113	Stérile	Amphibolite	0,000439	0,00210	0,001	2,290	6,10	1,47	4,12	0,0067
VIS-CV5-AMP-114	Stérile	Amphibolite	0,000589	0,00509	0,001	0,790	6,19	0,28	3,39	0,0087
VIS-CV5-AMP-115	Stérile	Amphibolite	0,000168	0,00101	0,001	0,440	6,24	0,40	13,70	0,0035
VIS-CV5-AMP-116	Stérile	Amphibolite	0,000197	0,00472	0,001	1,710	10,40	1,49	1,27	0,0055
VIS-CV5-AMP-117	Stérile	Amphibolite	0,000540	0,01490	0,001	1,720	3,74	0,81	3,79	0,0035
VIS-CV5-AMP-118	Stérile	Amphibolite	0,000310	0,01660	0,002	0,560	3,78	1,79	2,48	0,0071
VIS-CV5-AMP-119	Stérile	Amphibolite	0,000547	0,00016	0,001	0,380	8,61	1,07	1,29	0,0087
VIS-CV5-AMP-120	Stérile	Amphibolite	0,000032	0,00104	0,001	0,550	5,25	0,60	2,26	0,0008
VIS-CV5-AMP-121	Stérile	Amphibolite	0,000008	0,00096	0,001	0,180	1,27	0,99	1,18	0,0003
VIS-CV5-AMP-122	Stérile	Amphibolite	0,000291	0,00163	0,001	1,280	23,10	1,20	4,37	0,0060
VIS-CV5-AMP-123	Stérile	Amphibolite	0,000298	0,00355	0,001	1,120	2,62	0,45	2,40	0,0046
VIS-CV5-AMP-124	Stérile	Amphibolite	0,000032	0,00913	0,001	1,050	10,80	0,91	1,68	0,0011
VIS-CV5-AMP-125	Stérile	Amphibolite	0,000674	0,00459	0,002	1,260	7,05	0,62	3,53	0,0120
VIS-CV5-AMP-126	Stérile	Amphibolite	0,000906	0,00541	0,003	6,640	28,70	2,55	1,18	0,0268
VIS-CV5-AMP-127	Stérile	Amphibolite	0,000028	0,00112	0,001	0,400	4,51	1,47	1,17	0,0007
VIS-CV5-AMP-128	Stérile	Amphibolite	0,000013	0,00060	0,001	0,190	1,52	1,17	1,54	0,0007
VIS-CV5-AMP-129	Stérile	Amphibolite	0,000050	0,00092	0,001	0,610	5,63	1,19	3,24	0,0008
VIS-CV5-AMP-130	Stérile	Amphibolite	0,000027	0,00076	0,001	1,270	2,40	1,04	1,66	0,0008
VIS-CV5-AMP-131	Stérile	Amphibolite	0,000033	0,00308	0,001	0,490	7,86	1,60	2,13	0,0008
VIS-CV5-AMP-132	Stérile	Amphibolite	0,000013	0,00048	0,001	0,460	3,95	0,64	1,31	0,0006
VIS-CV5-AMP-133	Stérile	Amphibolite	0,000105	0,00087	0,002	0,480	14,10	1,59	2,80	0,0019
VIS-CV5-AMP-134	Stérile	Amphibolite	0,000103	<0,00008	0,002	0,300	1,31	0,98	10,30	0,0032
VIS-CV5-AMP-135	Stérile	Amphibolite	0,000349	0,03071	0,001	1,520	6,55	1,85	4,19	0,0065
VIS-CV5-AMP-136	Stérile	Amphibolite	0,000017	0,00334	0,001	0,890	3,47	1,28	2,17	0,0004
VIS-CV5-AMP-137	Stérile	Amphibolite	0,000523	0,00471	0,002	0,410	9,76	1,41	2,40	0,0065
VIS-CV5-AMP-138	Stérile	Amphibolite	0,000560	0,01940	0,001	0,440	5,98	0,96	2,54	0,0095
VIS-CV5-AMP-139	Stérile	Amphibolite	0,000607	0,00536	0,003	0,610	10,40	1,07	1,18	0,0129
VIS-CV5-AMP-140	Stérile	Amphibolite	0,000057	0,00014	0,002	0,210	0,52	0,84	8,02	0,0023
VIS-CV5-AMP-141	Stérile	Amphibolite	0,000432	<0,00008	0,001	0,970	3,41	0,19	5,08	0,0114
VIS-CV5-AMP-142	Stérile	Amphibolite	0,000498	0,00535	0,006	0,500	2,55	1,61	2,71	0,0112
VIS-CV5-AMP-143	Stérile	Amphibolite	0,000062	0,00099	0,001	6,080	3,86	1,41	4,84	0,0013
VIS-CV5-AMP-144	Stérile	Amphibolite	0,000112	0,00335	0,001	1,880	3,37	1,32	2,01	0,0030
VIS-CV5-AMP-145	Stérile	Amphibolite	0,000371	0,00781	0,004	0,360	1,89	1,39	2,64	0,0087
VIS-CV5-AMP-146	Stérile	Amphibolite	0,000893	0,00634	0,004	0,790	6,98	1,09	3,35	0,0169
VIS-CV5-AMP-147	Stérile	Amphibolite	0,000068	0,01270	0,001	0,430	4,91	0,93	1,46	0,0026
VIS-CV5-AMP-148	Stérile	Amphibolite	0,000036	0,00414	0,001	0,410	1,90	1,38	1,31	0,0011
VIS-CV5-AMP-149	Stérile	Amphibolite	0,000804	0,02510	0,005	1,640	2,96	2,34	3,96	0,0163
VIS-CV5-AMP-150	Stérile	Amphibolite	0,000465	0,00423	0,003	1,230	8,96	1,61	4,34	0,0088
VIS-CV5-AMP-151	Stérile	Amphibolite	0,000046	0,00237	0,001	0,700	1,95	1,00	2,33	0,0013

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
81	Minerai	Pegmatite spodumène	0,0044	36,1	<0,0001	1,630	0,00084	0,264	0,00026	0,00240
82	Minerai	Pegmatite spodumène	0,0022	44,1	0,0003	0,280	0,00059	0,056	0,00031	0,01001
83	Résidu	Résidu DMS	0,0018	27,6	0,0010	0,507	0,00080	0,141	0,00040	0,00023
84	Résidu	Résidu DMS	0,0028	27,0	0,0010	0,444	0,00091	0,135	0,00040	0,00025
VIS-CV5-AMP-085	Stérile	Amphibolite	0,0010	12,7	0,0006	0,01	<0,00009	0,03	0,00028	0,00007
VIS-CV5-AMP-086	Stérile	Amphibolite	0,0028	16,3	0,0012	0,03	<0,00009	0,02	0,00036	0,00017
VIS-CV5-AMP-087	Stérile	Amphibolite	0,0019	15,5	0,0002	0,02	<0,00009	0,01	0,00027	<0,00006
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0028	16,2	0,0003	0,02	<0,00009	0,01	0,00018	<0,00006
VIS-CV5-AMP-089	Stérile	Amphibolite	0,0023	16,9	0,0007	0,03	<0,00009	0,00	0,00015	<0,00006
VIS-CV5-AMP-090	Stérile	Amphibolite	0,0025	28,4	0,0012	<0,003	<0,00009	0,14	0,00151	<0,00006
VIS-CV5-AMP-091	Stérile	Amphibolite	0,0011	15,3	<0,0001	0,02	<0,00009	0,00	0,00056	<0,00006
VIS-CV5-AMP-092	Stérile	Amphibolite	0,0020	9,7	0,0019	0,02	<0,00009	0,01	0,00017	0,00017
VIS-CV5-AMP-093	Stérile	Amphibolite	0,0059	19,0	0,0013	0,01	0,00010	0,35	0,00094	<0,00006
VIS-CV5-AMP-094	Stérile	Amphibolite	0,0013	15,0	0,0037	0,05	0,00017	0,22	0,00034	<0,00006
VIS-CV5-AMP-095	Stérile	Amphibolite	0,0023	16,0	0,0010	0,00	0,00061	0,10	0,00018	0,00008
VIS-CV5-AMP-096	Stérile	Amphibolite	0,0040	14,2	0,0004	0,01	<0,00009	0,30	0,00063	<0,00006
VIS-CV5-AMP-097	Stérile	Amphibolite	0,0041	24,7	0,0015	0,01	<0,00009	0,15	0,00082	<0,00006
VIS-CV5-AMP-098	Stérile	Amphibolite	0,0032	19,3	0,0010	0,01	<0,00009	0,15	0,00371	<0,00006
VIS-CV5-AMP-099	Stérile	Amphibolite	0,0049	14,3	0,0019	0,01	0,00023	0,05	0,00017	0,00011
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0183	19,1	0,0020	0,02	<0,00009	0,89	0,00795	0,00011
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0136	19,3	0,0005	0,01	<0,00009	0,19	0,00035	<0,00006
VIS-CV5-AMP-102	Stérile	Amphibolite	0,0040	14,4	0,0037	0,05	0,00024	0,14	0,00012	0,00010
VIS-CV5-AMP-103	Stérile	Amphibolite	0,0363	16,9	0,0005	<0,003	0,00013	0,16	0,00228	<0,00006
VIS-CV5-AMP-104	Stérile	Amphibolite	0,0013	23,8	0,0012	0,01	0,00018	0,17	0,00024	0,00010
VIS-CV5-AMP-105	Stérile	Amphibolite	0,0037	9,7	0,0068	<0,003	<0,00009	0,00	0,00207	<0,00006
VIS-CV5-AMP-106	Stérile	Amphibolite	0,0019	15,1	0,0004	<0,003	<0,00009	0,19	0,00079	<0,00006
VIS-CV5-AMP-107	Stérile	Amphibolite	0,0050	16,0	<0,0001	<0,003	<0,00009	0,23	0,00018	<0,00006
VIS-CV5-AMP-108	Stérile	Amphibolite	0,0008	17,6	0,0003	<0,003	<0,00009	0,11	0,00019	0,00043
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0013	16,3	0,0007	0,01	<0,00009	0,06	0,00033	<0,00006
VIS-CV5-AMP-110	Stérile	Amphibolite	0,0015	21,4	0,0008	0,02	<0,00009	0,17	0,00063	<0,00006
VIS-CV5-AMP-111	Stérile	Amphibolite	0,0051	22,0	0,0017	0,02	<0,00009	0,30	0,00109	<0,00006
VIS-CV5-AMP-112	Stérile	Amphibolite	0,0015	17,6	0,0007	0,02	0,00011	0,08	0,00026	0,00140
VIS-CV5-AMP-113	Stérile	Amphibolite	0,0056	22,3	0,0016	0,01	0,00023	0,68	0,00055	0,00012
VIS-CV5-AMP-114	Stérile	Amphibolite	0,0016	21,9	0,0015	0,01	<0,00009	0,36	0,00035	<0,00006
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0017	16,3	0,0011	<0,003	<0,00009	0,06	0,00066	<0,00006
VIS-CV5-AMP-116	Stérile	Amphibolite	0,0011	13,1	0,0005	<0,003	<0,00009	0,28	0,00019	<0,00006
VIS-CV5-AMP-117	Stérile	Amphibolite	0,0043	14,5	0,0023	0,01	<0,00009	0,52	0,00189	<0,00006
VIS-CV5-AMP-118	Stérile	Amphibolite	0,0008	12,2	0,0013	0,01	<0,00009	0,04	0,00024	<0,00006
VIS-CV5-AMP-119	Stérile	Amphibolite	0,0029	16,8	0,0002	0,03	0,00016	0,05	0,00028	0,00106
VIS-CV5-AMP-120	Stérile	Amphibolite	0,0013	15,6	0,0002	<0,003	<0,00009	0,67	0,00102	<0,00006
VIS-CV5-AMP-121	Stérile	Amphibolite	0,0008	12,3	<0,0001	0,01	<0,00009	0,01	0,00018	<0,00006
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0051	16,9	0,0010	0,01	0,00010	0,29	0,00123	<0,00006
VIS-CV5-AMP-123	Stérile	Amphibolite	0,0028	28,1	0,0009	0,02	<0,00009	0,09	0,00244	0,00023
VIS-CV5-AMP-124	Stérile	Amphibolite	0,0021	20,1	0,0002	<0,003	<0,00009	0,06	0,00029	<0,00006
VIS-CV5-AMP-125	Stérile	Amphibolite	0,0031	25,1	0,0018	0,01	0,00013	0,26	0,00072	<0,00006
VIS-CV5-AMP-126	Stérile	Amphibolite	0,0028	9,3	0,0024	0,02	0,00129	0,10	0,00047	0,00065
VIS-CV5-AMP-127	Stérile	Amphibolite	0,0008	12,5	<0,0001	<0,003	<0,00009	0,06	0,00020	0,00047
VIS-CV5-AMP-128	Stérile	Amphibolite	0,0100	13,2	<0,0001	<0,003	<0,00009	0,04	0,00032	<0,00006
VIS-CV5-AMP-129	Stérile	Amphibolite	0,0065	17,9	0,0002	0,00	<0,00009	0,26	0,00073	<0,00006
VIS-CV5-AMP-130	Stérile	Amphibolite	0,0008	10,0	0,0002	0,01	<0,00009	0,48	0,00016	<0,00006
VIS-CV5-AMP-131	Stérile	Amphibolite	0,0018	13,5	0,0006	<0,003	<0,00009	0,07	0,00020	<0,00006
VIS-CV5-AMP-132	Stérile	Amphibolite	0,0014	15,0	<0,0001	<0,003	<0,00009	0,03	0,00017	0,00007
VIS-CV5-AMP-133	Stérile	Amphibolite	0,0038	19,3	0,0002	<0,003	<0,00009	0,09	0,00031	<0,00006
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0020	21,9	<0,0001	<0,003	<0,00009	0,10	0,00084	<0,00006
VIS-CV5-AMP-135	Stérile	Amphibolite	0,0053	17,6	0,0015	<0,003	0,00010	0,22	0,00043	<0,00006
VIS-CV5-AMP-136	Stérile	Amphibolite	0,0011	12,8	<0,0001	<0,003	<0,00009	0,09	0,00015	0,00066
VIS-CV5-AMP-137	Stérile	Amphibolite	0,0013	12,8	0,0020	0,04	<0,00009	0,03	0,00012	<0,00006
VIS-CV5-AMP-138	Stérile	Amphibolite	0,0028	15,4	0,0019	0,01	<0,00009	0,03	0,00015	0,00010
VIS-CV5-AMP-139	Stérile	Amphibolite	0,0024	17,8	0,0012	0,01	0,00010	0,24	0,00044	0,00015
VIS-CV5-AMP-140	Stérile	Amphibolite	0,0010	12,0	0,0003	<0,003	<0,00009	0,02	0,00027	<0,00006
VIS-CV5-AMP-141	Stérile	Amphibolite	0,0268	22,6	0,0005	<0,003	<0,00009	0,06	0,00050	0,00009
VIS-CV5-AMP-142	Stérile	Amphibolite	0,0008	12,8	0,0012	0,05	<0,00009	0,04	0,00030	<0,00006
VIS-CV5-AMP-143	Stérile	Amphibolite	0,0042	14,5	0,0006	<0,003	<0,00009	0,40	0,00052	0,00058
VIS-CV5-AMP-144	Stérile	Amphibolite	0,0029	13,6	0,0004	<0,003	<0,00009	0,08	0,00009	0,00007
VIS-CV5-AMP-145	Stérile	Amphibolite	0,0140	12,7	0,0011	0,02	<0,00009	0,02	0,00027	0,00007
VIS-CV5-AMP-146	Stérile	Amphibolite	0,0058	16,7	0,0032	0,01	0,00095	0,54	0,00033	0,00018
VIS-CV5-AMP-147	Stérile	Amphibolite	0,0030	12,9	0,0003	<0,003	<0,00009	0,03	0,00026	0,00008
VIS-CV5-AMP-148	Stérile	Amphibolite	0,0010	11,3	<0,0001	<0,003	<0,00009	0,02	0,00011	0,00067
VIS-CV5-AMP-149	Stérile	Amphibolite	0,0012	12,8	0,0036	0,01	0,00031	0,78	0,00060	0,00011
VIS-CV5-AMP-150	Stérile	Amphibolite	0,0115	14,6	0,0017	<0,003	0,00011	0,19	0,00120	0,00011
VIS-CV5-AMP-151	Stérile	Amphibolite	0,0029	15,6	0,0002	<0,003	0,00038	0,06	0,00037	<0,00006

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
81	Minerai	Pegmatite spodumène	0,00134	0,001130	0,057900	0,0036	0,0102	0,005
82	Minerai	Pegmatite spodumène	0,00237	0,001970	0,111000	0,0127	0,0103	0,011
83	Résidu	Résidu DMS	0,00361	0,002500	0,009110	0,0010	0,0029	0,020
84	Résidu	Résidu DMS	0,00335	0,003090	0,019200	0,0009	0,0020	0,020
VIS-CV5-AMP-085	Stérile	Amphibolite	0,00766	0,000006	0,000209	0,0022	0,0508	0,003
VIS-CV5-AMP-086	Stérile	Amphibolite	0,00684	0,000238	0,000117	0,0072	0,0500	<0,002
VIS-CV5-AMP-087	Stérile	Amphibolite	0,00613	<0,000005	0,000021	0,0009	0,0319	<0,002
VIS-CV5-AMP-088	Stérile	Amphibolite	0,01350	<0,000005	0,000082	0,0011	0,0203	<0,002
VIS-CV5-AMP-089	Stérile	Amphibolite	0,01820	0,000008	0,000100	0,0174	0,0127	<0,002
VIS-CV5-AMP-090	Stérile	Amphibolite	0,04680	0,000032	0,000083	0,0033	0,0152	<0,002
VIS-CV5-AMP-091	Stérile	Amphibolite	0,00600	<0,000005	0,000036	0,0029	0,0371	<0,002
VIS-CV5-AMP-092	Stérile	Amphibolite	0,00736	0,000134	0,000035	0,0026	0,0121	<0,002
VIS-CV5-AMP-093	Stérile	Amphibolite	0,01540	0,000079	0,000508	0,0178	0,0166	<0,002
VIS-CV5-AMP-094	Stérile	Amphibolite	0,00533	0,000090	0,000164	0,0594	0,0565	0,007
VIS-CV5-AMP-095	Stérile	Amphibolite	0,00835	<0,000005	0,001060	0,0030	0,0477	0,004
VIS-CV5-AMP-096	Stérile	Amphibolite	0,00910	0,000039	0,000084	0,0031	0,0354	<0,002
VIS-CV5-AMP-097	Stérile	Amphibolite	0,01800	0,000047	0,000328	0,0088	0,0305	<0,002
VIS-CV5-AMP-098	Stérile	Amphibolite	0,01870	0,000016	0,001640	0,0052	0,0234	<0,002
VIS-CV5-AMP-099	Stérile	Amphibolite	0,00795	0,000183	0,000124	0,0268	0,0602	<0,002
VIS-CV5-AMP-100	Stérile	Amphibolite	0,03380	0,000905	0,002800	0,0043	0,0103	<0,002
VIS-CV5-AMP-101	Stérile	Amphibolite	0,03650	0,000045	0,000281	0,0044	0,0051	<0,002
VIS-CV5-AMP-102	Stérile	Amphibolite	0,01250	0,000094	0,000090	0,1360	0,0243	0,007
VIS-CV5-AMP-103	Stérile	Amphibolite	0,02700	0,000042	0,001320	0,0083	0,0267	0,003
VIS-CV5-AMP-104	Stérile	Amphibolite	0,00699	0,000248	0,000713	0,0217	0,0487	<0,002
VIS-CV5-AMP-105	Stérile	Amphibolite	0,09760	0,000011	0,000708	0,0001	0,0001	<0,002
VIS-CV5-AMP-106	Stérile	Amphibolite	0,01030	0,000013	0,000013	0,0005	0,0330	<0,002
VIS-CV5-AMP-107	Stérile	Amphibolite	0,01440	0,000010	0,000063	0,0003	0,0295	<0,002
VIS-CV5-AMP-108	Stérile	Amphibolite	0,01630	0,000017	0,000125	0,0001	0,0094	<0,002
VIS-CV5-AMP-109	Stérile	Amphibolite	0,01290	0,000017	0,000062	0,0010	0,0123	<0,002
VIS-CV5-AMP-110	Stérile	Amphibolite	0,01180	0,000030	0,000064	0,0044	0,0407	<0,002
VIS-CV5-AMP-111	Stérile	Amphibolite	0,02470	0,000193	0,000209	0,0107	0,0265	<0,002
VIS-CV5-AMP-112	Stérile	Amphibolite	0,01330	0,000034	0,000170	0,0152	0,0877	<0,002
VIS-CV5-AMP-113	Stérile	Amphibolite	0,02280	0,000043	0,004330	0,0057	0,0270	<0,002
VIS-CV5-AMP-114	Stérile	Amphibolite	0,05560	0,000035	0,000151	0,0131	0,0396	<0,002
VIS-CV5-AMP-115	Stérile	Amphibolite	0,06710	0,000010	0,001630	0,0007	0,0055	<0,002
VIS-CV5-AMP-116	Stérile	Amphibolite	0,00667	0,000031	0,000315	0,0091	0,0581	<0,002
VIS-CV5-AMP-117	Stérile	Amphibolite	0,01750	0,000048	0,000565	0,0047	0,0696	<0,002
VIS-CV5-AMP-118	Stérile	Amphibolite	0,00895	0,000017	0,000059	0,0164	0,0723	<0,002
VIS-CV5-AMP-119	Stérile	Amphibolite	0,00795	0,000025	0,001750	0,0317	0,0392	<0,002
VIS-CV5-AMP-120	Stérile	Amphibolite	0,01510	0,000051	0,000487	0,0003	0,0242	<0,002
VIS-CV5-AMP-121	Stérile	Amphibolite	0,00811	0,000031	0,000177	0,0004	0,0422	<0,002
VIS-CV5-AMP-122	Stérile	Amphibolite	0,01530	0,000044	0,000527	0,0192	0,0120	0,003
VIS-CV5-AMP-123	Stérile	Amphibolite	0,01640	0,000095	0,000907	0,0067	0,0560	<0,002
VIS-CV5-AMP-124	Stérile	Amphibolite	0,00461	0,000022	0,001060	0,0012	0,0710	<0,002
VIS-CV5-AMP-125	Stérile	Amphibolite	0,01110	0,000023	0,007120	0,0211	0,0387	<0,002
VIS-CV5-AMP-126	Stérile	Amphibolite	0,00406	0,001920	0,002020	0,0697	0,0394	0,003
VIS-CV5-AMP-127	Stérile	Amphibolite	0,00693	0,000023	0,000080	0,0009	0,0375	<0,002
VIS-CV5-AMP-128	Stérile	Amphibolite	0,01220	0,000008	0,000121	0,0001	0,0216	<0,002
VIS-CV5-AMP-129	Stérile	Amphibolite	0,01410	0,000023	0,000253	0,0008	0,0203	<0,002
VIS-CV5-AMP-130	Stérile	Amphibolite	0,00993	0,000017	0,000101	0,0013	0,0398	<0,002
VIS-CV5-AMP-131	Stérile	Amphibolite	0,00661	0,000007	0,000190	0,0016	0,0329	<0,002
VIS-CV5-AMP-132	Stérile	Amphibolite	0,04660	0,000017	0,000032	0,0006	0,0310	<0,002
VIS-CV5-AMP-133	Stérile	Amphibolite	0,00956	0,000016	0,000040	0,0053	0,0210	<0,002
VIS-CV5-AMP-134	Stérile	Amphibolite	0,01970	<0,000005	0,000558	0,0016	0,0039	<0,002
VIS-CV5-AMP-135	Stérile	Amphibolite	0,00804	0,000023	0,000119	0,0068	0,0649	<0,002
VIS-CV5-AMP-136	Stérile	Amphibolite	0,00605	0,000006	0,001550	0,0005	0,0490	<0,002
VIS-CV5-AMP-137	Stérile	Amphibolite	0,00685	0,000021	0,000150	0,0233	0,0608	<0,002
VIS-CV5-AMP-138	Stérile	Amphibolite	0,00768	0,000031	0,000176	0,0123	0,0442	<0,002
VIS-CV5-AMP-139	Stérile	Amphibolite	0,00686	0,000036	0,000093	0,0314	0,0660	<0,002
VIS-CV5-AMP-140	Stérile	Amphibolite	0,03370	<0,000005	0,000105	0,0001	0,0026	<0,002
VIS-CV5-AMP-141	Stérile	Amphibolite	0,02010	0,000011	0,000796	0,0083	0,0184	<0,002
VIS-CV5-AMP-142	Stérile	Amphibolite	0,00462	0,000029	0,000069	0,0388	0,0606	<0,002
VIS-CV5-AMP-143	Stérile	Amphibolite	0,01540	0,000017	0,000293	0,0005	0,0147	<0,002
VIS-CV5-AMP-144	Stérile	Amphibolite	0,01230	<0,000005	0,002360	0,0065	0,0475	<0,002
VIS-CV5-AMP-145	Stérile	Amphibolite	0,01120	<0,000005	0,000234	0,0251	0,0602	<0,002
VIS-CV5-AMP-146	Stérile	Amphibolite	0,00657	0,000028	0,000157	0,0250	0,0397	0,011
VIS-CV5-AMP-147	Stérile	Amphibolite	0,00926	0,000019	0,000113	0,0045	0,0919	<0,002
VIS-CV5-AMP-148	Stérile	Amphibolite	0,00385	0,000006	0,000081	0,0024	0,0713	<0,002
VIS-CV5-AMP-149	Stérile	Amphibolite	0,01250	0,000078	0,001350	0,0239	0,0655	<0,002
VIS-CV5-AMP-150	Stérile	Amphibolite	0,01770	0,000058	0,001510	0,0121	0,0196	<0,002
VIS-CV5-AMP-151	Stérile	Amphibolite	0,00738	0,000011	0,000855	0,0022	0,0555	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
VIS-CV5-AMP-152	Stérile	Amphibolite	9,61	61,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-153	Stérile	Amphibolite	9,14	70,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-154	Stérile	Amphibolite	8,89	63,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-155	Stérile	Amphibolite	9,24	73,00	218,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-AMP-156	Stérile	Amphibolite	8,79	43,00	108,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-157	Stérile	Amphibolite	9,15	49,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-158	Stérile	Amphibolite	9,13	51,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-159	Stérile	Amphibolite	8,91	61,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-160	Stérile	Amphibolite	8,86	76,00	244,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-161	Stérile	Amphibolite	8,79	49,00	162,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-AMP-162	Stérile	Amphibolite	9,06	64,00	175,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-AMP-163	Stérile	Amphibolite	8,28	62,00	501,00	<2,0	<20,0	<30,0	<0,00001	0,00012
VIS-CV5-AMP-164	Stérile	Amphibolite	8,75	52,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-165	Stérile	Amphibolite	8,91	76,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-166	Stérile	Amphibolite	8,98	55,00	134,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-167	Stérile	Amphibolite	8,67	64,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-168	Stérile	Amphibolite	8,80	59,00	153,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-169	Stérile	Amphibolite	8,93	57,00	164,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-170	Stérile	Amphibolite	8,77	60,00	210,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-171	Stérile	Amphibolite	9,02	55,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-172	Stérile	Amphibolite	9,39	48,00	132,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-173	Stérile	Amphibolite	9,03	50,00	138,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-174	Stérile	Amphibolite	8,98	41,00	135,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-175	Stérile	Amphibolite	8,82	54,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-176	Stérile	Amphibolite	9,20	65,00	150,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-177	Stérile	Amphibolite	8,79	56,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-178	Stérile	Amphibolite	8,93	56,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-179	Stérile	Amphibolite	8,88	59,00	182,00	<2,0	<20,0	<30,0	<0,00001	0,00013
VIS-CV5-AMP-180	Stérile	Amphibolite	9,23	77,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-181	Stérile	Amphibolite	8,64	64,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-AMP-182	Stérile	Amphibolite	9,15	63,00	146,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-183	Stérile	Métasédiment	9,09	84,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-184	Stérile	Métasédiment	9,05	110,00	445,00	<2,0	<31,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-185	Stérile	Métasédiment	8,26	67,00	298,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-MS-186	Stérile	Métasédiment	8,53	73,00	253,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-187	Stérile	Métasédiment	8,31	56,00	219,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-188	Stérile	Métasédiment	9,29	122,00	277,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-189	Stérile	Métasédiment	8,90	106,00	240,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-190	Stérile	Métasédiment	9,20	84,00	181,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-191	Stérile	Métasédiment	8,40	64,00	194,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-192	Stérile	Métasédiment	9,01	77,00	173,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-193	Stérile	Métasédiment	8,83	79,00	194,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-194	Stérile	Métasédiment	8,41	76,00	175,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-195	Stérile	Métasédiment	8,29	104,00	626,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-MS-196	Stérile	Métasédiment	8,13	96,00	539,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-197	Stérile	Métasédiment	8,08	82,00	484,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-198	Stérile	Métasédiment	8,71	65,00	257,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-199	Stérile	Métasédiment	9,06	63,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-200	Stérile	Métasédiment	9,16	70,00	208,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-201	Stérile	Métasédiment	8,31	51,00	271,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-MS-202	Stérile	Métasédiment	4,64	2,00	1280,00	269,00	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-203	Stérile	Métasédiment	8,08	51,00	482,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-204	Stérile	Métasédiment	9,09	80,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-205	Stérile	Métasédiment	8,76	69,00	237,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-MS-206	Stérile	Métasédiment	8,87	48,00	179,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-207	Stérile	Métasédiment	8,35	47,00	343,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-MS-208	Stérile	Métasédiment	9,31	77,00	187,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-209	Stérile	Métasédiment	8,95	87,00	218,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-210	Stérile	Métasédiment	8,03	33,00	377,00	<2,0	<20,0	<30,0	<0,00001	0,00028
VIS-CV5-MS-211	Stérile	Métasédiment	9,28	85,00	220,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-212	Stérile	Métasédiment	9,06	80,00	241,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-213	Stérile	Métasédiment	9,34	86,00	205,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-214	Stérile	Métasédiment	9,06	66,00	174,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-215	Stérile	Métasédiment	8,99	61,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-216	Stérile	Métasédiment	8,81	63,00	224,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-217	Stérile	Métasédiment	9,35	84,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-218	Stérile	Métasédiment	9,47	79,00	178,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-219	Stérile	Métasédiment	9,44	94,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-220	Stérile	Métasédiment	8,90	49,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-221	Stérile	Métasédiment	8,68	52,00	152,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-AMP-152	Stérile	Amphibolite	1,52	0,12	0,11	0,00202	0,000017	0,000020	4,16	0,000008
VIS-CV5-AMP-153	Stérile	Amphibolite	0,19	0,50	0,12	0,00213	0,000043	<0,00001	9,90	<0,000003
VIS-CV5-AMP-154	Stérile	Amphibolite	0,78	0,06	0,22	0,00224	0,000035	0,000020	4,72	0,000008
VIS-CV5-AMP-155	Stérile	Amphibolite	0,51	3,14	0,13	0,00222	0,000099	0,000030	6,62	0,000013
VIS-CV5-AMP-156	Stérile	Amphibolite	0,33	0,08	0,06	0,00100	0,000007	0,000020	4,73	0,000011
VIS-CV5-AMP-157	Stérile	Amphibolite	0,96	0,05	0,09	0,00061	<0,000007	<0,00001	3,78	<0,000003
VIS-CV5-AMP-158	Stérile	Amphibolite	0,45	0,01	0,07	0,00104	<0,000007	<0,00001	4,77	<0,000003
VIS-CV5-AMP-159	Stérile	Amphibolite	0,85	0,93	0,27	0,00546	0,000283	0,000060	7,25	0,000015
VIS-CV5-AMP-160	Stérile	Amphibolite	0,89	1,21	0,15	0,00939	0,000222	0,000040	4,51	0,000008
VIS-CV5-AMP-161	Stérile	Amphibolite	1,20	0,38	0,10	0,00701	0,000180	0,000030	8,39	0,000022
VIS-CV5-AMP-162	Stérile	Amphibolite	1,12	0,05	0,11	0,00142	<0,000007	0,000020	3,45	0,000009
VIS-CV5-AMP-163	Stérile	Amphibolite	0,04	0,06	0,13	0,00686	<0,000007	<0,00001	33,00	0,000056
VIS-CV5-AMP-164	Stérile	Amphibolite	0,26	0,13	0,12	0,00123	0,000008	<0,00001	6,44	<0,000003
VIS-CV5-AMP-165	Stérile	Amphibolite	0,87	0,28	0,14	0,00157	0,000066	<0,00001	5,17	0,000040
VIS-CV5-AMP-166	Stérile	Amphibolite	0,96	0,19	0,11	0,00105	<0,000007	<0,00001	3,78	0,000004
VIS-CV5-AMP-167	Stérile	Amphibolite	0,06	0,02	0,12	0,00215	<0,000007	<0,00001	12,50	0,000006
VIS-CV5-AMP-168	Stérile	Amphibolite	0,56	0,34	0,16	0,00164	0,000032	<0,00001	4,16	0,000004
VIS-CV5-AMP-169	Stérile	Amphibolite	0,82	0,19	0,15	0,00232	0,000043	0,000020	4,81	0,000007
VIS-CV5-AMP-170	Stérile	Amphibolite	0,40	0,37	0,13	0,00162	0,000238	<0,00001	7,16	<0,000003
VIS-CV5-AMP-171	Stérile	Amphibolite	0,65	0,28	0,09	0,00580	0,000029	<0,00001	4,60	0,000005
VIS-CV5-AMP-172	Stérile	Amphibolite	0,62	0,02	0,11	0,00068	<0,000007	<0,00001	3,66	<0,000003
VIS-CV5-AMP-173	Stérile	Amphibolite	0,86	0,11	0,13	0,00100	0,000060	0,000040	4,22	0,000006
VIS-CV5-AMP-174	Stérile	Amphibolite	0,35	0,01	0,07	0,00075	<0,000007	<0,00001	4,94	0,000012
VIS-CV5-AMP-175	Stérile	Amphibolite	0,16	0,40	0,15	0,00224	0,000026	<0,00001	9,36	0,000004
VIS-CV5-AMP-176	Stérile	Amphibolite	0,89	0,46	0,12	0,00940	0,000010	0,000020	2,88	0,000016
VIS-CV5-AMP-177	Stérile	Amphibolite	1,61	0,49	0,14	0,00281	0,000215	0,000030	5,41	0,000013
VIS-CV5-AMP-178	Stérile	Amphibolite	0,61	0,25	0,14	0,00186	0,000076	0,000020	5,78	0,000006
VIS-CV5-AMP-179	Stérile	Amphibolite	0,62	0,47	0,25	0,00311	0,000132	<0,00001	6,35	0,000048
VIS-CV5-AMP-180	Stérile	Amphibolite	0,18	0,05	0,12	0,00244	0,000010	<0,00001	7,99	0,000012
VIS-CV5-AMP-181	Stérile	Amphibolite	0,53	0,05	0,11	0,00157	0,000010	0,000020	5,17	0,000003
VIS-CV5-AMP-182	Stérile	Amphibolite	1,74	0,27	0,21	0,00284	0,000023	0,000030	7,10	0,000010
VIS-CV5-MS-183	Stérile	Métasédiment	2,11	0,11	0,12	0,01180	0,000018	0,000020	1,55	0,000014
VIS-CV5-MS-184	Stérile	Métasédiment	1,79	0,07	0,09	0,00748	<0,000007	<0,00001	2,77	<0,000003
VIS-CV5-MS-185	Stérile	Métasédiment	0,55	0,01	0,13	0,00344	0,000015	<0,00001	5,82	0,000005
VIS-CV5-MS-186	Stérile	Métasédiment	1,66	0,02	0,15	0,00629	0,000022	0,000020	4,54	0,000010
VIS-CV5-MS-187	Stérile	Métasédiment	0,24	0,00	0,10	0,00227	<0,000007	<0,00001	5,84	0,000007
VIS-CV5-MS-188	Stérile	Métasédiment	8,97	0,13	0,16	0,04780	0,000412	0,000100	1,97	0,000029
VIS-CV5-MS-189	Stérile	Métasédiment	3,42	0,23	0,11	0,01020	0,000048	0,000020	1,83	0,000018
VIS-CV5-MS-190	Stérile	Métasédiment	4,95	0,01	0,08	0,03380	0,000016	0,000040	1,26	0,000017
VIS-CV5-MS-191	Stérile	Métasédiment	0,30	0,00	0,14	0,00234	0,000020	<0,00001	6,28	0,000014
VIS-CV5-MS-192	Stérile	Métasédiment	3,17	0,18	0,22	0,00752	0,000261	0,000060	1,76	0,000014
VIS-CV5-MS-193	Stérile	Métasédiment	0,85	0,24	0,17	0,00244	0,000074	0,000020	3,00	0,000008
VIS-CV5-MS-194	Stérile	Métasédiment	0,29	0,03	0,14	0,00222	0,000027	<0,00001	4,30	0,000004
VIS-CV5-MS-195	Stérile	Métasédiment	0,01	0,00	0,09	0,02620	<0,000007	<0,00001	86,60	0,000010
VIS-CV5-MS-196	Stérile	Métasédiment	0,03	0,01	0,07	0,00995	<0,000007	<0,00001	65,40	0,000015
VIS-CV5-MS-197	Stérile	Métasédiment	0,01	0,04	0,09	0,01860	<0,000007	<0,00001	55,10	0,000015
VIS-CV5-MS-198	Stérile	Métasédiment	0,64	0,03	0,12	0,00497	0,000140	0,000030	6,75	0,000010
VIS-CV5-MS-199	Stérile	Métasédiment	1,20	0,01	0,11	0,00451	0,000017	0,000020	4,22	0,000023
VIS-CV5-MS-200	Stérile	Métasédiment	1,02	0,50	0,15	0,00350	0,000132	0,000030	2,66	0,000030
VIS-CV5-MS-201	Stérile	Métasédiment	0,61	0,00	0,09	0,00540	0,000009	<0,00001	8,10	0,000005
VIS-CV5-MS-202	Stérile	Métasédiment	0,42	0,00	0,16	0,05800	0,000465	<0,00001	70,60	0,000648
VIS-CV5-MS-203	Stérile	Métasédiment	0,04	0,01	0,20	0,00599	<0,000007	<0,00001	39,40	0,000022
VIS-CV5-MS-204	Stérile	Métasédiment	0,93	0,19	0,23	0,00705	0,000088	<0,00001	4,51	0,000014
VIS-CV5-MS-205	Stérile	Métasédiment	10,40	0,91	0,14	0,06090	0,001380	0,002640	1,32	0,000086
VIS-CV5-MS-206	Stérile	Métasédiment	1,63	0,02	0,12	0,01300	0,000021	0,000050	3,64	0,000011
VIS-CV5-MS-207	Stérile	Métasédiment	0,57	0,02	0,27	0,00663	0,000034	<0,00001	9,38	0,000008
VIS-CV5-MS-208	Stérile	Métasédiment	5,63	0,12	0,12	0,04060	0,000210	0,000070	2,36	0,000077
VIS-CV5-MS-209	Stérile	Métasédiment	1,26	0,04	0,20	0,01010	0,000043	<0,00001	2,53	0,000007
VIS-CV5-MS-210	Stérile	Métasédiment	0,67	0,41	0,52	0,01270	0,000245	0,001000	1,98	0,000178
VIS-CV5-MS-211	Stérile	Métasédiment	4,65	1,15	0,15	0,01660	0,000101	0,000130	1,10	0,000041
VIS-CV5-MS-212	Stérile	Métasédiment	3,12	0,80	0,20	0,00949	0,000200	<0,00021	2,20	0,000080
VIS-CV5-MS-213	Stérile	Métasédiment	2,85	0,04	0,09	0,00628	0,000010	<0,00001	1,39	0,000010
VIS-CV5-MS-214	Stérile	Métasédiment	1,63	0,07	0,14	0,00526	0,000167	0,000030	1,93	0,000020
VIS-CV5-MS-215	Stérile	Métasédiment	1,07	0,29	0,11	0,00488	0,000084	0,000040	3,62	0,000071
VIS-CV5-MS-216	Stérile	Métasédiment	0,37	0,56	0,64	0,00274	0,000011	<0,00001	6,52	0,000013
VIS-CV5-MS-217	Stérile	Métasédiment	3,12	0,06	0,12	0,00644	0,000127	0,000030	1,31	0,000026
VIS-CV5-MS-218	Stérile	Métasédiment	5,53	0,31	0,10	0,01770	0,000087	0,000040	1,38	0,000022
VIS-CV5-MS-219	Stérile	Métasédiment	3,31	0,25	0,12	0,01460	0,000054	0,000030	1,45	0,000036
VIS-CV5-MS-220	Stérile	Métasédiment	1,35	0,00	0,13	0,00464	<0,000007	0,000020	4,27	0,000006
VIS-CV5-MS-221	Stérile	Métasédiment	0,22	0,01	0,06	0,00655	<0,000007	<0,00001	5,84	0,000011

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-AMP-152	Stérile	Amphibolite	0,000525	0,01900	0,002	2,040	3,26	2,23	2,01	0,0208
VIS-CV5-AMP-153	Stérile	Amphibolite	0,000268	0,00243	0,001	2,330	4,75	0,68	6,54	0,0035
VIS-CV5-AMP-154	Stérile	Amphibolite	0,000384	0,00615	0,003	0,720	12,60	0,89	2,36	0,0105
VIS-CV5-AMP-155	Stérile	Amphibolite	0,001050	0,04520	0,001	3,140	13,40	2,25	4,99	0,0165
VIS-CV5-AMP-156	Stérile	Amphibolite	0,000023	0,00233	0,001	0,870	3,58	1,04	0,95	0,0001
VIS-CV5-AMP-157	Stérile	Amphibolite	0,000076	0,00317	0,001	0,440	0,94	2,37	0,88	0,0024
VIS-CV5-AMP-158	Stérile	Amphibolite	0,000243	0,00350	0,004	0,170	3,18	0,20	2,12	0,0072
VIS-CV5-AMP-159	Stérile	Amphibolite	0,001000	0,00518	0,005	6,340	17,00	1,71	3,36	0,0171
VIS-CV5-AMP-160	Stérile	Amphibolite	0,000793	0,01360	0,002	8,440	36,20	3,15	2,40	0,0207
VIS-CV5-AMP-161	Stérile	Amphibolite	0,001310	0,01520	0,010	1,560	8,24	0,82	3,42	0,0408
VIS-CV5-AMP-162	Stérile	Amphibolite	0,000177	0,00354	0,002	1,830	11,80	3,46	0,90	0,0037
VIS-CV5-AMP-163	Stérile	Amphibolite	0,000419	0,00043	0,002	0,820	24,80	0,73	16,50	0,0074
VIS-CV5-AMP-164	Stérile	Amphibolite	0,000131	0,00319	0,002	0,880	2,99	0,94	2,00	0,0048
VIS-CV5-AMP-165	Stérile	Amphibolite	0,001040	0,00425	0,001	1,980	5,74	2,01	4,19	0,0146
VIS-CV5-AMP-166	Stérile	Amphibolite	0,000120	0,00182	0,001	1,260	7,69	1,07	0,97	0,0023
VIS-CV5-AMP-167	Stérile	Amphibolite	0,000043	0,00017	0,001	0,850	1,91	0,06	6,91	0,0011
VIS-CV5-AMP-168	Stérile	Amphibolite	0,001960	0,00898	0,003	1,290	9,44	0,73	2,44	0,0134
VIS-CV5-AMP-169	Stérile	Amphibolite	0,000521	0,00695	0,002	0,900	9,38	0,75	1,93	0,0145
VIS-CV5-AMP-170	Stérile	Amphibolite	0,000737	0,00235	0,003	2,100	4,43	0,70	3,86	0,0057
VIS-CV5-AMP-171	Stérile	Amphibolite	0,000690	0,00368	0,001	0,640	10,50	0,95	1,13	0,0118
VIS-CV5-AMP-172	Stérile	Amphibolite	0,000028	0,00129	0,001	0,360	2,22	1,25	0,74	0,0006
VIS-CV5-AMP-173	Stérile	Amphibolite	0,000653	0,00326	0,002	1,000	6,55	0,56	1,30	0,0157
VIS-CV5-AMP-174	Stérile	Amphibolite	0,000022	0,00069	0,001	0,120	0,65	0,55	1,10	0,0006
VIS-CV5-AMP-175	Stérile	Amphibolite	0,000141	0,00225	0,001	0,830	7,40	0,56	3,34	0,0025
VIS-CV5-AMP-176	Stérile	Amphibolite	0,000841	0,00531	0,001	0,710	8,75	1,62	1,52	0,0109
VIS-CV5-AMP-177	Stérile	Amphibolite	0,001540	0,01120	0,007	6,340	6,06	1,36	2,62	0,0310
VIS-CV5-AMP-178	Stérile	Amphibolite	0,000565	0,00548	0,002	1,810	6,90	0,73	2,57	0,0123
VIS-CV5-AMP-179	Stérile	Amphibolite	0,000723	0,00204	0,004	1,850	10,10	0,82	3,60	0,0132
VIS-CV5-AMP-180	Stérile	Amphibolite	0,000177	0,00101	0,001	1,700	2,79	1,11	4,78	0,0032
VIS-CV5-AMP-181	Stérile	Amphibolite	0,000271	0,00347	0,001	1,450	5,74	1,66	3,59	0,0070
VIS-CV5-AMP-182	Stérile	Amphibolite	0,001890	0,01130	0,011	0,570	3,26	1,43	3,85	0,0274
VIS-CV5-MS-183	Stérile	Métasédiment	0,000998	0,00562	0,001	2,050	20,00	2,49	1,21	0,0221
VIS-CV5-MS-184	Stérile	Métasédiment	0,000066	0,00020	0,001	1,440	65,00	2,69	1,23	0,0053
VIS-CV5-MS-185	Stérile	Métasédiment	0,000120	0,00217	0,001	1,490	18,80	1,61	4,18	0,0064
VIS-CV5-MS-186	Stérile	Métasédiment	0,000277	0,00290	0,001	1,400	19,80	1,96	2,27	0,0226
VIS-CV5-MS-187	Stérile	Métasédiment	0,000021	0,00193	0,001	0,240	28,10	0,99	2,38	0,0007
VIS-CV5-MS-188	Stérile	Métasédiment	0,002900	0,00237	0,003	8,780	45,50	5,34	2,44	0,1170
VIS-CV5-MS-189	Stérile	Métasédiment	0,000723	0,00134	0,001	2,700	29,40	2,97	0,68	0,0212
VIS-CV5-MS-190	Stérile	Métasédiment	0,001680	0,00162	0,003	0,690	35,00	0,05	1,26	0,0202
VIS-CV5-MS-191	Stérile	Métasédiment	0,000097	0,00012	0,001	0,690	16,20	0,32	3,50	0,0058
VIS-CV5-MS-192	Stérile	Métasédiment	0,001480	0,00123	0,001	0,660	23,50	0,89	1,09	0,0261
VIS-CV5-MS-193	Stérile	Métasédiment	0,000943	0,00065	0,001	4,510	18,60	1,24	2,27	0,0157
VIS-CV5-MS-194	Stérile	Métasédiment	0,000263	0,00022	0,001	1,020	16,60	0,45	3,46	0,0040
VIS-CV5-MS-195	Stérile	Métasédiment	0,000499	<0,00008	0,002	0,060	1,86	0,05	19,80	0,0393
VIS-CV5-MS-196	Stérile	Métasédiment	0,000763	<0,00008	0,003	0,060	6,44	0,02	18,50	0,0334
VIS-CV5-MS-197	Stérile	Métasédiment	0,000694	0,00011	0,002	0,080	7,46	0,03	13,80	0,0112
VIS-CV5-MS-198	Stérile	Métasédiment	0,000300	0,00142	0,001	1,600	21,50	1,54	3,18	0,0096
VIS-CV5-MS-199	Stérile	Métasédiment	0,000741	0,00217	0,001	0,750	18,70	0,70	2,38	0,0230
VIS-CV5-MS-200	Stérile	Métasédiment	0,001300	0,00288	0,001	1,720	13,70	1,33	1,52	0,0183
VIS-CV5-MS-201	Stérile	Métasédiment	0,000127	0,00081	0,001	1,770	21,60	1,76	3,34	0,0047
VIS-CV5-MS-202	Stérile	Métasédiment	0,000671	<0,00008	0,016	5,250	27,10	2,25	42,80	4,2000
VIS-CV5-MS-203	Stérile	Métasédiment	0,000120	0,00066	0,001	1,200	4,78	0,91	17,70	0,0130
VIS-CV5-MS-204	Stérile	Métasédiment	0,001380	0,00147	0,001	4,690	21,10	3,18	2,12	0,0294
VIS-CV5-MS-205	Stérile	Métasédiment	0,006000	0,04450	0,018	15,300	32,60	5,23	3,72	0,1660
VIS-CV5-MS-206	Stérile	Métasédiment	0,001210	0,00263	0,002	0,840	22,40	0,32	2,80	0,0106
VIS-CV5-MS-207	Stérile	Métasédiment	0,000244	0,00155	0,001	6,440	32,50	3,70	4,28	0,0126
VIS-CV5-MS-208	Stérile	Métasédiment	0,001260	0,00327	0,002	1,490	25,30	1,14	0,86	0,0382
VIS-CV5-MS-209	Stérile	Métasédiment	0,000321	0,00754	0,001	3,300	21,80	3,51	1,07	0,0076
VIS-CV5-MS-210	Stérile	Métasédiment	0,000554	0,00061	0,020	22,900	39,40	9,16	2,54	0,0116
VIS-CV5-MS-211	Stérile	Métasédiment	0,001510	0,00796	0,004	2,530	36,50	3,03	0,90	0,0422
VIS-CV5-MS-212	Stérile	Métasédiment	0,000456	0,00181	0,003	5,190	33,20	3,79	0,58	0,0196
VIS-CV5-MS-213	Stérile	Métasédiment	0,000318	0,00102	0,001	0,840	36,50	2,39	0,52	0,0119
VIS-CV5-MS-214	Stérile	Métasédiment	0,000496	0,00025	0,001	4,230	21,60	1,22	1,58	0,0242
VIS-CV5-MS-215	Stérile	Métasédiment	0,001070	0,00615	0,004	1,030	6,34	3,36	1,67	0,0101
VIS-CV5-MS-216	Stérile	Métasédiment	0,000315	0,00343	0,001	0,670	9,20	1,88	3,49	0,0050
VIS-CV5-MS-217	Stérile	Métasédiment	0,000335	0,00022	0,001	3,160	23,70	2,25	0,54	0,0192
VIS-CV5-MS-218	Stérile	Métasédiment	0,000702	0,00028	0,001	0,840	31,00	1,62	0,87	0,0427
VIS-CV5-MS-219	Stérile	Métasédiment	0,000727	0,00058	0,001	0,920	31,50	3,09	0,72	0,0294
VIS-CV5-MS-220	Stérile	Métasédiment	0,000223	0,00071	0,002	0,700	26,50	0,33	1,11	0,0022
VIS-CV5-MS-221	Stérile	Métasédiment	0,000059	0,00115	0,001	0,200	9,06	0,40	3,26	0,0043

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-AMP-152	Stérile	Amphibolite	0,0033	11,6	0,0013	0,03	<0,00009	0,12	0,00017	0,00028
VIS-CV5-AMP-153	Stérile	Amphibolite	0,0052	17,1	0,0013	<0,003	<0,00009	0,18	0,00047	0,00007
VIS-CV5-AMP-154	Stérile	Amphibolite	0,0087	19,3	0,0012	0,03	0,00061	0,04	0,00098	0,00010
VIS-CV5-AMP-155	Stérile	Amphibolite	0,0042	17,4	0,0059	0,02	0,00046	0,43	0,00025	0,00074
VIS-CV5-AMP-156	Stérile	Amphibolite	0,0015	9,4	<0,0001	<0,003	0,00268	0,24	0,00015	<0,00006
VIS-CV5-AMP-157	Stérile	Amphibolite	0,0008	12,8	0,0002	<0,003	<0,00009	0,08	0,00013	<0,00006
VIS-CV5-AMP-158	Stérile	Amphibolite	0,0008	15,6	0,0005	0,02	<0,00009	0,00	0,00018	<0,00006
VIS-CV5-AMP-159	Stérile	Amphibolite	0,0055	13,1	0,0042	0,01	0,00023	0,82	0,00111	0,00037
VIS-CV5-AMP-160	Stérile	Amphibolite	0,0028	9,2	0,0027	0,01	0,00068	0,36	0,00278	0,00069
VIS-CV5-AMP-161	Stérile	Amphibolite	0,0128	12,3	0,0042	0,02	0,00241	0,28	0,00071	0,00088
VIS-CV5-AMP-162	Stérile	Amphibolite	0,0162	10,5	0,0003	0,01	0,00010	0,26	0,00021	<0,00006
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0097	14,8	0,0046	<0,003	<0,00009	0,91	0,00126	<0,00006
VIS-CV5-AMP-164	Stérile	Amphibolite	0,0065	15,6	0,0004	<0,003	<0,00009	0,15	0,00071	<0,00006
VIS-CV5-AMP-165	Stérile	Amphibolite	0,0012	20,5	0,0021	0,01	0,00268	0,27	0,00050	<0,00006
VIS-CV5-AMP-166	Stérile	Amphibolite	0,0029	12,2	0,0004	<0,003	0,00019	0,05	0,00027	0,00082
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0057	15,7	0,0003	<0,003	<0,00009	0,01	0,00019	0,00135
VIS-CV5-AMP-168	Stérile	Amphibolite	0,0018	16,1	0,0015	0,01	0,00010	0,09	0,00018	<0,00006
VIS-CV5-AMP-169	Stérile	Amphibolite	0,0054	17,5	0,0020	0,01	0,00011	0,14	0,00031	0,00011
VIS-CV5-AMP-170	Stérile	Amphibolite	0,0019	22,7	0,0009	0,01	0,00010	0,15	0,00104	0,00013
VIS-CV5-AMP-171	Stérile	Amphibolite	0,0019	17,7	0,0018	0,01	0,00012	0,06	0,00066	0,00019
VIS-CV5-AMP-172	Stérile	Amphibolite	0,0021	16,6	<0,0001	<0,003	0,00077	0,07	0,00025	<0,00006
VIS-CV5-AMP-173	Stérile	Amphibolite	0,0121	15,9	0,0016	0,01	0,00022	0,06	0,00029	0,00078
VIS-CV5-AMP-174	Stérile	Amphibolite	0,0016	17,1	0,0003	<0,003	<0,00009	0,00	0,00080	<0,00006
VIS-CV5-AMP-175	Stérile	Amphibolite	0,0037	21,2	0,0007	0,00	<0,00009	0,41	0,00096	<0,00006
VIS-CV5-AMP-176	Stérile	Amphibolite	0,0236	15,9	0,0026	0,04	0,00034	0,14	0,00010	0,00010
VIS-CV5-AMP-177	Stérile	Amphibolite	0,0023	20,3	0,0053	0,02	<0,00009	0,43	0,00038	0,00049
VIS-CV5-AMP-178	Stérile	Amphibolite	0,0037	17,5	0,0020	0,01	<0,00009	0,13	0,00062	0,00017
VIS-CV5-AMP-179	Stérile	Amphibolite	0,0057	15,6	0,0025	0,02	0,01140	0,25	0,00057	0,00100
VIS-CV5-AMP-180	Stérile	Amphibolite	0,0108	21,1	0,0009	<0,003	0,00058	0,11	0,00037	<0,00006
VIS-CV5-AMP-181	Stérile	Amphibolite	0,0085	17,4	0,0006	0,01	<0,00009	0,04	0,00015	0,00028
VIS-CV5-AMP-182	Stérile	Amphibolite	0,0014	15,6	0,0038	0,08	<0,00009	0,04	0,00024	<0,00006
VIS-CV5-MS-183	Stérile	Métasédiment	0,0046	20,2	0,0016	0,05	0,00046	0,13	0,00008	<0,00006
VIS-CV5-MS-184	Stérile	Métasédiment	0,0031	31,8	<0,0001	0,05	<0,00009	0,00	0,00006	<0,00006
VIS-CV5-MS-185	Stérile	Métasédiment	0,0069	29,9	0,0003	0,02	0,00023	0,02	0,00049	<0,00006
VIS-CV5-MS-186	Stérile	Métasédiment	0,0061	26,3	0,0005	0,03	0,00066	0,02	0,00041	<0,00006
VIS-CV5-MS-187	Stérile	Métasédiment	0,0056	10,4	<0,0001	0,02	<0,00009	0,00	0,00018	<0,00006
VIS-CV5-MS-188	Stérile	Métasédiment	0,0083	13,3	0,0034	0,10	0,00222	0,11	0,00019	0,00132
VIS-CV5-MS-189	Stérile	Métasédiment	0,0073	22,8	0,0009	0,05	0,00064	0,09	0,00023	0,00018
VIS-CV5-MS-190	Stérile	Métasédiment	0,0030	13,8	0,0018	0,14	0,00090	0,00	0,00016	0,00022
VIS-CV5-MS-191	Stérile	Métasédiment	0,0157	17,9	0,0002	0,01	0,03520	0,02	0,00049	0,00033
VIS-CV5-MS-192	Stérile	Métasédiment	0,0059	17,1	0,0017	0,06	0,00204	0,02	0,00011	0,00032
VIS-CV5-MS-193	Stérile	Métasédiment	0,0070	19,4	0,0011	0,01	0,00055	0,05	0,00014	0,00031
VIS-CV5-MS-194	Stérile	Métasédiment	0,0088	16,3	0,0003	0,01	0,00010	0,03	0,00022	<0,00006
VIS-CV5-MS-195	Stérile	Métasédiment	0,0031	6,9	0,0136	<0,003	0,00010	0,00	0,00022	0,00010
VIS-CV5-MS-196	Stérile	Métasédiment	0,0033	7,1	0,0170	<0,003	<0,00009	0,00	0,00020	<0,00006
VIS-CV5-MS-197	Stérile	Métasédiment	0,0032	11,8	0,0232	<0,003	<0,00009	0,00	0,00022	0,00007
VIS-CV5-MS-198	Stérile	Métasédiment	0,0050	20,6	0,0008	0,02	0,00024	0,07	0,00017	0,00012
VIS-CV5-MS-199	Stérile	Métasédiment	0,0042	18,2	0,0014	0,02	0,00084	0,02	0,00019	0,00009
VIS-CV5-MS-200	Stérile	Métasédiment	0,0119	24,4	0,0023	0,02	0,00171	0,23	0,00060	0,00016
VIS-CV5-MS-201	Stérile	Métasédiment	0,0080	18,4	0,0002	0,01	0,00019	0,01	0,00011	0,00016
VIS-CV5-MS-202	Stérile	Métasédiment	0,0009	17,1	0,0034	<0,003	0,00028	0,00	0,00244	<0,00006
VIS-CV5-MS-203	Stérile	Métasédiment	0,0523	20,3	0,0006	<0,003	<0,00009	0,05	0,00463	0,00012
VIS-CV5-MS-204	Stérile	Métasédiment	0,0053	16,7	0,0018	0,01	0,00190	2,13	0,00068	0,00011
VIS-CV5-MS-205	Stérile	Métasédiment	0,0044	10,9	0,0350	0,17	0,00564	1,63	0,00169	0,01695
VIS-CV5-MS-206	Stérile	Métasédiment	0,0040	13,6	0,0023	0,04	0,00060	0,04	0,00151	0,00014
VIS-CV5-MS-207	Stérile	Métasédiment	0,0088	18,0	0,0005	0,01	0,00015	0,08	0,00025	0,00033
VIS-CV5-MS-208	Stérile	Métasédiment	0,0117	18,2	0,0023	0,04	0,00362	0,08	0,00016	0,00030
VIS-CV5-MS-209	Stérile	Métasédiment	0,0042	16,0	0,0009	0,03	0,00022	0,09	0,00042	<0,00006
VIS-CV5-MS-210	Stérile	Métasédiment	0,0056	11,9	0,0013	0,02	0,00885	11,20	0,00936	0,00117
VIS-CV5-MS-211	Stérile	Métasédiment	0,0046	12,1	0,0056	0,09	0,00195	0,47	0,00146	0,00055
VIS-CV5-MS-212	Stérile	Métasédiment	0,0351	13,4	0,0013	0,05	0,00276	0,70	0,00086	0,00074
VIS-CV5-MS-213	Stérile	Métasédiment	0,0123	12,0	0,0008	0,03	0,00031	0,02	0,00028	0,00011
VIS-CV5-MS-214	Stérile	Métasédiment	0,0186	16,7	0,0007	0,02	0,00037	0,03	0,00015	0,00018
VIS-CV5-MS-215	Stérile	Métasédiment	0,0029	15,0	0,0022	0,18	0,00079	0,11	0,00044	0,00021
VIS-CV5-MS-216	Stérile	Métasédiment	0,0031	23,0	0,0016	0,02	0,00028	0,10	0,00095	<0,00006
VIS-CV5-MS-217	Stérile	Métasédiment	0,0094	13,8	0,0002	0,07	0,00077	0,02	0,00015	0,00043
VIS-CV5-MS-218	Stérile	Métasédiment	0,0122	12,0	0,0003	0,12	0,00164	0,02	0,00011	0,00021
VIS-CV5-MS-219	Stérile	Métasédiment	0,0417	12,1	0,0006	0,04	0,00049	0,21	0,00013	0,00016
VIS-CV5-MS-220	Stérile	Métasédiment	0,0030	13,8	0,0003	0,03	0,00033	0,00	0,00022	<0,00006
VIS-CV5-MS-221	Stérile	Métasédiment	0,0061	16,3	0,0002	0,02	0,00013	0,00	0,00015	<0,00006

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-AMP-152	Stérile	Amphibolite	0,00644	0,000084	0,000290	0,0419	0,0924	<0,002
VIS-CV5-AMP-153	Stérile	Amphibolite	0,02910	0,000020	0,000116	0,0054	0,0177	<0,002
VIS-CV5-AMP-154	Stérile	Amphibolite	0,00805	0,000039	0,000386	0,0171	0,0535	0,003
VIS-CV5-AMP-155	Stérile	Amphibolite	0,01170	0,000352	0,004490	0,0162	0,0535	<0,002
VIS-CV5-AMP-156	Stérile	Amphibolite	0,00958	0,000016	0,000024	0,0001	0,0477	<0,002
VIS-CV5-AMP-157	Stérile	Amphibolite	0,00505	0,000006	0,000030	0,0063	0,0713	<0,002
VIS-CV5-AMP-158	Stérile	Amphibolite	0,00752	0,000010	0,000116	0,0153	0,0735	<0,002
VIS-CV5-AMP-159	Stérile	Amphibolite	0,01190	0,000536	0,003410	0,0283	0,0520	0,007
VIS-CV5-AMP-160	Stérile	Amphibolite	0,01070	0,001440	0,009460	0,0247	0,0654	<0,002
VIS-CV5-AMP-161	Stérile	Amphibolite	0,01710	0,000112	0,000833	0,0983	0,0740	0,004
VIS-CV5-AMP-162	Stérile	Amphibolite	0,00687	0,000163	0,000149	0,0113	0,0663	<0,002
VIS-CV5-AMP-163	Stérile	Amphibolite	0,05360	0,000023	0,031300	0,0003	0,0016	<0,002
VIS-CV5-AMP-164	Stérile	Amphibolite	0,00876	0,000012	0,000810	0,0099	0,0679	<0,002
VIS-CV5-AMP-165	Stérile	Amphibolite	0,01730	0,000036	0,000027	0,0244	0,0285	0,005
VIS-CV5-AMP-166	Stérile	Amphibolite	0,00571	0,000025	0,000074	0,0058	0,0493	<0,002
VIS-CV5-AMP-167	Stérile	Amphibolite	0,07850	0,000221	0,000124	0,0018	0,0100	<0,002
VIS-CV5-AMP-168	Stérile	Amphibolite	0,01060	0,000023	0,000285	0,0201	0,0595	<0,002
VIS-CV5-AMP-169	Stérile	Amphibolite	0,00765	0,000035	0,002360	0,0231	0,0578	<0,002
VIS-CV5-AMP-170	Stérile	Amphibolite	0,00884	0,000047	0,001210	0,0142	0,0409	<0,002
VIS-CV5-AMP-171	Stérile	Amphibolite	0,00986	0,000059	0,000105	0,0354	0,0427	<0,002
VIS-CV5-AMP-172	Stérile	Amphibolite	0,00488	0,000006	0,000793	0,0011	0,0500	<0,002
VIS-CV5-AMP-173	Stérile	Amphibolite	0,00671	0,000093	0,000621	0,0392	0,0559	<0,002
VIS-CV5-AMP-174	Stérile	Amphibolite	0,00830	<0,000005	0,001028	0,0009	0,0369	<0,002
VIS-CV5-AMP-175	Stérile	Amphibolite	0,01670	0,000028	0,000780	0,0034	0,0272	<0,002
VIS-CV5-AMP-176	Stérile	Amphibolite	0,00468	0,000053	0,000156	0,0325	0,0605	0,004
VIS-CV5-AMP-177	Stérile	Amphibolite	0,00756	0,000177	0,000067	0,0784	0,0646	0,003
VIS-CV5-AMP-178	Stérile	Amphibolite	0,00801	0,000029	0,001350	0,0162	0,0481	<0,002
VIS-CV5-AMP-179	Stérile	Amphibolite	0,00773	0,000050	0,000394	0,0154	0,0231	0,006
VIS-CV5-AMP-180	Stérile	Amphibolite	0,03190	0,000010	0,000022	0,0038	0,0106	<0,002
VIS-CV5-AMP-181	Stérile	Amphibolite	0,00859	0,000008	0,000202	0,0085	0,0198	<0,002
VIS-CV5-AMP-182	Stérile	Amphibolite	0,01250	0,000031	0,000321	0,0620	0,0967	0,003
VIS-CV5-MS-183	Stérile	Métasédiment	0,00453	0,000084	0,000856	0,0715	0,0821	0,006
VIS-CV5-MS-184	Stérile	Métasédiment	0,00793	0,000011	0,000506	0,0200	0,0299	<0,002
VIS-CV5-MS-185	Stérile	Métasédiment	0,01240	0,000018	0,000298	0,0147	0,0170	<0,002
VIS-CV5-MS-186	Stérile	Métasédiment	0,01010	0,000026	0,001250	0,0896	0,0248	<0,002
VIS-CV5-MS-187	Stérile	Métasédiment	0,01340	<0,000005	0,000499	0,0008	0,0284	<0,002
VIS-CV5-MS-188	Stérile	Métasédiment	0,00638	0,002240	0,002810	0,5720	0,0745	0,014
VIS-CV5-MS-189	Stérile	Métasédiment	0,00400	0,000174	0,003680	0,1010	0,0485	0,004
VIS-CV5-MS-190	Stérile	Métasédiment	0,00305	0,000036	0,001590	0,2610	0,1180	0,008
VIS-CV5-MS-191	Stérile	Métasédiment	0,03430	0,000022	0,000088	0,0076	0,0014	<0,002
VIS-CV5-MS-192	Stérile	Métasédiment	0,00457	0,000122	0,001140	0,1610	0,0476	0,005
VIS-CV5-MS-193	Stérile	Métasédiment	0,01150	0,000201	0,000199	0,0343	0,0167	<0,002
VIS-CV5-MS-194	Stérile	Métasédiment	0,02200	0,000018	0,000061	0,0111	0,0043	<0,002
VIS-CV5-MS-195	Stérile	Métasédiment	0,34800	0,000039	0,000683	0,0001	0,0003	<0,002
VIS-CV5-MS-196	Stérile	Métasédiment	0,31400	0,000011	0,000228	0,0001	0,0004	<0,002
VIS-CV5-MS-197	Stérile	Métasédiment	0,22700	0,000014	0,000247	0,0001	0,0003	<0,002
VIS-CV5-MS-198	Stérile	Métasédiment	0,01480	0,000058	0,003890	0,0268	0,0107	<0,002
VIS-CV5-MS-199	Stérile	Métasédiment	0,01030	0,000019	0,002130	0,0611	0,0147	0,005
VIS-CV5-MS-200	Stérile	Métasédiment	0,00769	0,000049	0,003840	0,0245	0,0343	0,005
VIS-CV5-MS-201	Stérile	Métasédiment	0,01770	0,000016	0,001780	0,0260	0,0085	<0,002
VIS-CV5-MS-202	Stérile	Métasédiment	0,09660	0,000006	0,000054	0,0002	0,0001	0,016
VIS-CV5-MS-203	Stérile	Métasédiment	0,05420	0,000053	0,004900	0,0006	0,0007	<0,002
VIS-CV5-MS-204	Stérile	Métasédiment	0,01670	0,000342	0,002590	0,0435	0,0158	0,003
VIS-CV5-MS-205	Stérile	Métasédiment	0,00337	0,011400	0,004330	0,4840	0,0458	0,027
VIS-CV5-MS-206	Stérile	Métasédiment	0,01020	0,000036	0,000861	0,1050	0,0205	0,005
VIS-CV5-MS-207	Stérile	Métasédiment	0,01750	0,000169	0,001210	0,0264	0,0114	<0,002
VIS-CV5-MS-208	Stérile	Métasédiment	0,01140	0,000180	0,014500	0,1110	0,0331	0,014
VIS-CV5-MS-209	Stérile	Métasédiment	0,00678	0,000052	0,004510	0,0264	0,0657	<0,002
VIS-CV5-MS-210	Stérile	Métasédiment	0,00545	0,002867	0,000210	0,0161	0,0034	0,039
VIS-CV5-MS-211	Stérile	Métasédiment	0,00260	0,000667	0,011400	0,1570	0,0449	0,011
VIS-CV5-MS-212	Stérile	Métasédiment	0,00686	0,000529	0,021300	0,0567	0,0287	0,007
VIS-CV5-MS-213	Stérile	Métasédiment	0,00561	0,000049	0,001290	0,0773	0,0399	0,003
VIS-CV5-MS-214	Stérile	Métasédiment	0,00497	0,000185	0,001210	0,0454	0,0040	0,003
VIS-CV5-MS-215	Stérile	Métasédiment	0,01180	0,000213	0,000402	0,0584	0,0461	0,008
VIS-CV5-MS-216	Stérile	Métasédiment	0,02820	0,000093	0,001140	0,0074	0,0221	<0,002
VIS-CV5-MS-217	Stérile	Métasédiment	0,00280	0,000584	0,011000	0,0939	0,0149	0,005
VIS-CV5-MS-218	Stérile	Métasédiment	0,00393	0,000197	0,010800	0,2150	0,0164	0,008
VIS-CV5-MS-219	Stérile	Métasédiment	0,00535	0,000132	0,010700	0,1330	0,0535	0,004
VIS-CV5-MS-220	Stérile	Métasédiment	0,01030	0,000040	0,016100	0,0306	0,0176	<0,002
VIS-CV5-MS-221	Stérile	Métasédiment	0,00890	0,000013	0,000977	0,0128	0,0239	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
VIS-CV5-MS-222	Stérile	Métasédiment	9,19	70,00	189,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-223	Stérile	Métasédiment	8,92	66,00	184,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-224	Stérile	Métasédiment	8,18	48,00	247,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-MS-225	Stérile	Métasédiment	8,94	56,00	147,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-226	Stérile	Métasédiment	8,12	47,00	173,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-227	Stérile	Métasédiment	7,92	57,00	409,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-228	Stérile	Métasédiment	9,47	82,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-229	Stérile	Métasédiment	8,33	63,00	443,00	<2,0	<20,0	<30,0	<0,00001	0,00026
VIS-CV5-MS-230	Stérile	Métasédiment	8,84	64,00	309,00	<2,0	<20,0	<30,0	<0,00001	0,00040
VIS-CV5-MS-231	Stérile	Métasédiment	8,20	47,00	413,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-232	Stérile	Métasédiment	9,14	83,00	238,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-233	Stérile	Métasédiment	9,09	89,00	209,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-234	Stérile	Métasédiment	9,00	79,00	241,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-235	Stérile	Métasédiment	9,23	95,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-236	Stérile	Métasédiment	9,10	85,00	214,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-237	Stérile	Métasédiment	8,93	80,00	206,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-238	Stérile	Métasédiment	9,12	99,00	242,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-239	Stérile	Métasédiment	8,65	66,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-240	Stérile	Métasédiment	8,76	70,00	220,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-241	Stérile	Métasédiment	9,04	90,00	278,00	<2,0	<20,0	<30,0	<0,00001	0,00008
VIS-CV5-MS-242	Stérile	Métasédiment	9,22	98,00	250,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-243	Stérile	Métasédiment	8,92	75,00	205,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-244	Stérile	Métasédiment	9,62	115,00	267,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-245	Stérile	Métasédiment	9,52	110,00	262,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-246	Stérile	Métasédiment	9,39	80,00	191,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-247	Stérile	Métasédiment	9,53	83,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-248	Stérile	Métasédiment	9,54	95,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-249	Stérile	Métasédiment	9,55	96,00	215,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-250	Stérile	Métasédiment	8,83	57,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-251	Stérile	Métasédiment	9,35	57,00	174,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-252	Stérile	Métasédiment	8,57	66,00	181,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-253	Stérile	Métasédiment	8,31	98,00	744,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-254	Stérile	Métasédiment	8,82	76,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-255	Stérile	Métasédiment	8,60	76,00	222,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-256	Stérile	Métasédiment	8,53	66,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-257	Stérile	Métasédiment	8,41	66,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-MS-258	Stérile	Métasédiment	8,94	71,00	183,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	8,99	67,00	198,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	8,48	56,00	221,00	<2,0	<28,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	8,49	59,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	9,30	79,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	9,19	74,00	217,00	<2,0	21,00	<30,0	<0,00001	<0,00008
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	9,50	73,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	9,50	81,00	211,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	8,35	48,00	203,00	<2,0	29,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	8,87	52,00	242,00	<2,0	40,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	9,07	44,00	230,00	<2,0	47,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	9,41	74,00	170,00	<2,0	<20,0	<30,0	<0,00001	0,00006
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	9,53	67,00	193,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	9,31	67,00	180,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	9,26	65,00	171,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	9,25	68,00	200,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	9,22	65,00	200,00	<2,0	21,00	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	9,57	72,00	187,00	<2,0	<20,0	<30,0	<0,00001	<0,00009
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	8,21	69,00	159,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	9,48	67,00	180,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	9,16	63,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-279	Stérile	Ultramafique	9,15	91,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-280	Stérile	Ultramafique	8,60	98,00	235,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-281	Stérile	Ultramafique	8,94	96,00	402,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-282	Stérile	Ultramafique	8,73	104,00	363,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-283	Stérile	Ultramafique	8,43	107,00	381,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-284	Stérile	Ultramafique	8,75	84,00	286,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-285	Stérile	Ultramafique	8,94	57,00	213,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-286	Stérile	Ultramafique	8,69	132,00	355,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-287	Stérile	Ultramafique	8,72	86,00	379,00	<2,0	<20,0	<30,0	<0,00001	0,00013
VIS-CV5-UM-288	Stérile	Ultramafique	9,00	86,00	290,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-289	Stérile	Ultramafique	8,75	80,00	289,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-290	Stérile	Ultramafique	9,02	73,00	188,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-291	Stérile	Ultramafique	9,25	86,00	204,00	<2,0	<20,0	<30,0	<0,00001	<0,00005

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-MS-222	Stérile	Métasédiment	0,87	0,02	0,23	0,00324	0,000106	<0,00001	3,57	0,000007
VIS-CV5-MS-223	Stérile	Métasédiment	2,15	0,81	0,25	0,00890	0,000110	0,000040	2,12	0,000020
VIS-CV5-MS-224	Stérile	Métasédiment	0,71	0,04	0,11	0,00449	0,000038	0,000040	6,09	0,000043
VIS-CV5-MS-225	Stérile	Métasédiment	0,66	0,44	0,17	0,00310	0,000057	0,000020	2,74	0,000014
VIS-CV5-MS-226	Stérile	Métasédiment	0,40	0,04	0,29	0,00058	<0,000007	<0,00001	6,09	0,000003
VIS-CV5-MS-227	Stérile	Métasédiment	0,13	0,00	0,08	0,00585	<0,000007	<0,00001	25,40	0,000021
VIS-CV5-MS-228	Stérile	Métasédiment	0,86	2,16	0,21	0,00281	0,000029	0,000040	2,18	0,000007
VIS-CV5-MS-229	Stérile	Métasédiment	0,13	0,00	0,08	0,01250	<0,000007	<0,00001	26,10	0,000029
VIS-CV5-MS-230	Stérile	Métasédiment	0,21	0,05	0,29	0,00518	0,000026	0,000020	12,00	0,000028
VIS-CV5-MS-231	Stérile	Métasédiment	0,34	0,00	0,08	0,01060	0,000009	0,000020	15,30	0,000006
VIS-CV5-MS-232	Stérile	Métasédiment	0,57	0,12	0,18	0,00326	0,000102	0,000030	2,64	0,000016
VIS-CV5-MS-233	Stérile	Métasédiment	0,69	0,09	0,16	0,00198	0,000087	<0,00001	1,67	0,000009
VIS-CV5-MS-234	Stérile	Métasédiment	2,24	0,09	0,11	0,00737	0,000058	<0,00011	1,30	0,000020
VIS-CV5-MS-235	Stérile	Métasédiment	1,92	0,21	0,15	0,00475	0,000045	0,000030	1,35	0,000018
VIS-CV5-MS-236	Stérile	Métasédiment	1,31	0,01	0,14	0,00285	0,000032	0,000030	1,25	0,000005
VIS-CV5-MS-237	Stérile	Métasédiment	1,71	0,01	0,22	0,00385	0,000062	0,000020	0,86	0,000008
VIS-CV5-MS-238	Stérile	Métasédiment	1,85	0,09	0,18	0,00682	0,000040	0,000020	2,02	0,000010
VIS-CV5-MS-239	Stérile	Métasédiment	0,51	0,02	0,14	0,00303	<0,000007	<0,00001	5,69	0,000005
VIS-CV5-MS-240	Stérile	Métasédiment	0,67	0,01	0,12	0,00390	0,000009	0,000020	2,43	0,000010
VIS-CV5-MS-241	Stérile	Métasédiment	2,85	0,05	0,23	0,02050	0,000186	0,000100	1,66	0,000024
VIS-CV5-MS-242	Stérile	Métasédiment	2,19	0,05	0,15	0,00974	0,000043	<0,00001	1,85	0,000013
VIS-CV5-MS-243	Stérile	Métasédiment	0,80	0,05	0,13	0,00286	0,000075	0,000040	4,05	0,000005
VIS-CV5-MS-244	Stérile	Métasédiment	3,22	0,63	0,11	0,01630	0,000041	0,000060	1,64	0,000016
VIS-CV5-MS-245	Stérile	Métasédiment	2,59	0,04	0,19	0,00783	0,000023	0,000020	1,20	0,000009
VIS-CV5-MS-246	Stérile	Métasédiment	2,63	0,20	0,11	0,01110	0,000193	0,000220	1,28	0,000043
VIS-CV5-MS-247	Stérile	Métasédiment	3,83	0,31	0,11	0,01450	<0,00007	0,000070	1,16	0,000042
VIS-CV5-MS-248	Stérile	Métasédiment	2,41	0,23	0,14	0,00951	0,000023	0,000040	1,90	0,000015
VIS-CV5-MS-249	Stérile	Métasédiment	2,40	0,16	0,14	0,00983	0,000050	0,000020	1,29	0,000019
VIS-CV5-MS-250	Stérile	Métasédiment	0,67	0,00	0,04	0,00092	<0,000007	<0,00001	10,00	0,000003
VIS-CV5-MS-251	Stérile	Métasédiment	1,27	0,02	0,20	0,00543	0,000189	0,000020	3,48	0,000014
VIS-CV5-MS-252	Stérile	Métasédiment	0,61	0,03	0,46	0,00214	0,000681	0,000050	6,66	0,000003
VIS-CV5-MS-253	Stérile	Métasédiment	0,01	0,00	0,11	0,02900	0,000007	<0,00001	85,00	0,000042
VIS-CV5-MS-254	Stérile	Métasédiment	2,29	0,68	0,23	0,01270	0,000293	0,000040	2,41	0,000011
VIS-CV5-MS-255	Stérile	Métasédiment	2,64	0,26	0,14	0,01280	0,000073	0,000020	3,16	0,000093
VIS-CV5-MS-256	Stérile	Métasédiment	2,26	0,02	0,10	0,00842	0,000020	0,000030	2,52	0,000026
VIS-CV5-MS-257	Stérile	Métasédiment	3,40	0,03	0,22	0,01110	<0,000007	<0,00001	2,64	0,000007
VIS-CV5-MS-258	Stérile	Métasédiment	1,94	0,07	0,08	0,01010	<0,000007	0,000030	2,01	0,000013
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	1,79	0,22	0,87	0,00330	0,000289	0,000030	3,81	0,000005
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,91	0,23	0,29	0,00169	0,000763	0,001850	3,93	0,000021
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	1,74	0,71	0,18	0,00266	0,000770	0,000670	2,58	0,000062
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	2,38	1,64	0,32	0,00238	0,000585	0,000130	1,03	0,000034
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	3,09	0,56	0,35	0,00419	0,000673	0,000700	0,68	0,000036
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	3,02	0,73	0,30	0,00097	0,000753	0,000230	0,55	0,000018
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	2,24	0,83	0,19	0,00198	0,000313	0,000130	0,93	0,000009
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	1,01	0,17	0,21	0,00187	0,002790	0,000540	2,97	0,000014
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,96	0,16	0,23	0,00091	0,003100	0,001350	3,39	0,000021
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,97	0,11	0,15	0,00173	0,012500	0,000460	5,19	0,000019
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	3,53	0,38	0,34	0,00106	0,000764	0,001420	1,23	0,000036
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,73	0,57	0,10	0,00066	0,000428	0,000050	2,94	0,000004
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	2,67	1,51	0,32	0,00199	0,000738	0,000340	1,17	0,000041
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	4,61	0,55	0,20	0,00187	0,009950	0,000090	1,16	0,000020
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	1,74	0,93	0,27	0,00340	0,001330	0,000560	1,31	0,000050
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,45	0,80	0,22	0,00063	0,000870	0,000090	5,60	0,000014
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	1,34	0,25	0,19	0,00097	0,001780	0,006530	0,79	0,000011
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	3,93	1,27	0,22	0,00358	0,000497	0,000620	0,63	0,000010
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	1,82	0,55	0,22	0,00221	0,000410	0,002710	1,21	0,000012
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	4,22	0,08	0,19	0,00402	0,002410	0,000110	0,90	0,000018
VIS-CV5-UM-279	Stérile	Ultramafique	0,04	1,80	0,05	0,00079	<0,000007	<0,00001	5,91	<0,000003
VIS-CV5-UM-280	Stérile	Ultramafique	0,05	33,50	0,06	0,00223	<0,000007	<0,00001	8,94	0,000006
VIS-CV5-UM-281	Stérile	Ultramafique	0,23	18,20	0,16	0,00409	0,000099	0,000060	5,32	0,000013
VIS-CV5-UM-282	Stérile	Ultramafique	0,08	24,90	0,05	0,00496	0,000009	<0,00001	7,34	0,000003
VIS-CV5-UM-283	Stérile	Ultramafique	0,02	53,30	0,17	0,00800	0,000012	<0,00001	21,30	0,000025
VIS-CV5-UM-284	Stérile	Ultramafique	0,03	19,50	0,11	0,00673	0,000017	<0,00001	10,90	0,000009
VIS-CV5-UM-285	Stérile	Ultramafique	0,18	1,32	0,05	0,00177	0,000026	0,000020	10,80	0,000005
VIS-CV5-UM-286	Stérile	Ultramafique	0,02	79,50	0,11	0,00711	0,000012	<0,00001	12,10	<0,000003
VIS-CV5-UM-287	Stérile	Ultramafique	0,04	35,50	0,10	0,00544	0,000047	0,000030	24,90	0,000007
VIS-CV5-UM-288	Stérile	Ultramafique	0,12	25,70	0,13	0,00405	0,000022	0,000020	8,11	<0,000003
VIS-CV5-UM-289	Stérile	Ultramafique	0,61	23,80	0,13	0,00346	0,000032	<0,00001	7,48	0,000021
VIS-CV5-UM-290	Stérile	Ultramafique	0,03	6,11	0,06	0,00294	0,000008	0,000030	6,21	0,000005
VIS-CV5-UM-291	Stérile	Ultramafique	0,12	12,30	0,05	0,00267	<0,000007	0,000020	5,77	<0,000003

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-MS-222	Stérile	Métasédiment	0,000183	0,00205	0,001	2,400	17,20	1,28	1,44	0,0100
VIS-CV5-MS-223	Stérile	Métasédiment	0,002510	0,01860	0,002	0,880	24,60	1,38	1,47	0,0108
VIS-CV5-MS-224	Stérile	Métasédiment	0,000444	0,00104	0,002	1,570	28,70	0,98	2,81	0,0090
VIS-CV5-MS-225	Stérile	Métasédiment	0,000820	0,00110	0,001	0,500	6,71	0,12	1,03	0,0060
VIS-CV5-MS-226	Stérile	Métasédiment	0,000013	0,00125	0,001	0,610	6,67	0,93	2,32	0,0009
VIS-CV5-MS-227	Stérile	Métasédiment	0,000045	0,00012	0,001	0,800	16,90	1,24	20,10	0,0285
VIS-CV5-MS-228	Stérile	Métasédiment	0,001450	0,02190	0,002	1,590	26,50	2,58	1,06	0,0116
VIS-CV5-MS-229	Stérile	Métasédiment	0,000089	0,00054	0,002	0,560	28,20	1,43	13,60	0,0084
VIS-CV5-MS-230	Stérile	Métasédiment	0,000145	0,00173	0,001	1,570	10,40	0,51	5,35	0,0019
VIS-CV5-MS-231	Stérile	Métasédiment	0,000056	0,00073	0,003	2,100	54,30	0,79	8,90	0,0024
VIS-CV5-MS-232	Stérile	Métasédiment	0,000523	0,00249	0,001	2,630	30,40	1,98	2,97	0,0123
VIS-CV5-MS-233	Stérile	Métasédiment	0,000632	0,00122	0,001	2,480	20,80	2,23	2,35	0,0114
VIS-CV5-MS-234	Stérile	Métasédiment	0,000628	0,00288	0,002	1,270	28,30	2,59	0,72	0,0146
VIS-CV5-MS-235	Stérile	Métasédiment	0,000393	0,00030	0,001	2,690	25,00	3,88	0,68	0,0166
VIS-CV5-MS-236	Stérile	Métasédiment	0,000097	0,00345	0,001	0,870	20,20	0,09	0,59	0,0053
VIS-CV5-MS-237	Stérile	Métasédiment	0,000097	0,00668	0,001	0,960	23,90	0,07	0,47	0,0041
VIS-CV5-MS-238	Stérile	Métasédiment	0,000740	0,00072	0,001	2,790	29,60	2,80	1,10	0,0283
VIS-CV5-MS-239	Stérile	Métasédiment	0,000171	0,00276	0,001	0,740	9,81	2,00	3,51	0,0037
VIS-CV5-MS-240	Stérile	Métasédiment	0,000251	0,00293	0,001	1,240	31,30	1,15	0,82	0,0110
VIS-CV5-MS-241	Stérile	Métasédiment	0,001110	0,00527	0,002	2,870	36,60	3,93	1,79	0,0665
VIS-CV5-MS-242	Stérile	Métasédiment	0,000595	0,00230	0,001	2,260	35,60	2,31	0,98	0,0287
VIS-CV5-MS-243	Stérile	Métasédiment	0,000618	0,00750	0,002	1,910	6,54	1,39	3,31	0,0180
VIS-CV5-MS-244	Stérile	Métasédiment	0,001830	0,00111	0,002	2,130	41,10	3,36	1,03	0,0332
VIS-CV5-MS-245	Stérile	Métasédiment	0,000668	0,00108	0,001	3,730	40,50	3,78	0,83	0,0318
VIS-CV5-MS-246	Stérile	Métasédiment	0,000927	0,00085	0,001	3,630	23,50	2,52	0,89	0,0467
VIS-CV5-MS-247	Stérile	Métasédiment	0,000930	0,00059	0,002	3,030	28,40	3,49	0,93	0,0667
VIS-CV5-MS-248	Stérile	Métasédiment	0,001210	0,00085	0,001	1,270	29,10	3,06	0,84	0,0284
VIS-CV5-MS-249	Stérile	Métasédiment	0,000712	0,00097	0,001	2,990	29,10	3,81	0,68	0,0272
VIS-CV5-MS-250	Stérile	Métasédiment	0,000011	<0,00008	0,001	0,280	0,78	0,10	3,22	0,0016
VIS-CV5-MS-251	Stérile	Métasédiment	0,000451	0,00035	0,001	0,650	18,40	0,27	1,57	0,0205
VIS-CV5-MS-252	Stérile	Métasédiment	0,000378	0,00120	0,002	4,120	5,88	1,03	2,62	0,0096
VIS-CV5-MS-253	Stérile	Métasédiment	0,000186	0,00009	0,001	1,320	29,10	0,87	10,90	0,0396
VIS-CV5-MS-254	Stérile	Métasédiment	0,001630	0,00624	0,001	2,520	26,60	1,64	1,18	0,0378
VIS-CV5-MS-255	Stérile	Métasédiment	0,001590	0,00489	0,003	2,910	21,30	2,12	1,13	0,0405
VIS-CV5-MS-256	Stérile	Métasédiment	0,000689	0,00489	0,002	2,380	22,10	1,54	1,05	0,0204
VIS-CV5-MS-257	Stérile	Métasédiment	0,000422	0,00294	0,001	0,450	16,80	0,08	0,38	0,0035
VIS-CV5-MS-258	Stérile	Métasédiment	0,001220	0,00151	0,002	0,740	34,40	0,20	1,01	0,0094
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,000100	0,00075	0,001	0,850	7,54	0,51	0,67	0,0027
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,000090	0,00312	0,001	2,520	20,00	0,78	0,55	0,0088
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,000370	0,00086	0,018	2,630	10,10	1,53	1,26	0,0186
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,000062	0,00534	0,001	3,290	1,29	0,79	0,13	0,0199
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,000162	0,00150	0,003	3,620	6,56	1,14	0,28	0,0152
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,000097	0,00998	0,001	1,160	0,38	0,26	0,09	0,0124
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,000468	0,00413	0,002	0,800	1,01	0,39	0,19	0,0139
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,000110	0,00267	0,001	2,630	18,80	0,88	0,45	0,0074
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,000039	0,00131	0,001	4,570	17,40	1,55	0,40	0,0174
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,000204	0,00786	0,002	1,620	7,11	0,48	1,19	0,0155
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,000021	0,00395	0,001	2,180	12,40	1,31	0,11	0,0443
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,001640	0,00136	0,002	0,880	0,32	0,42	0,98	0,0064
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,000072	0,00984	0,002	1,680	18,70	0,52	0,11	0,0320
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,000267	0,02560	0,001	0,940	6,98	0,21	0,47	0,0203
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,000161	0,00768	0,003	0,870	21,90	0,16	0,20	0,0165
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,000350	0,00280	0,001	2,700	0,48	0,54	3,41	0,0079
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,000081	0,00525	0,002	1,500	18,90	0,53	0,12	0,0108
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,000074	0,00296	0,001	2,530	11,50	0,82	0,13	0,0227
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,000152	0,01220	0,003	1,990	26,10	0,59	0,18	0,0130
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,000356	0,00125	0,005	2,470	6,36	0,14	0,21	0,0350
VIS-CV5-UM-279	Stérile	Ultramafique	0,000317	0,10500	0,001	0,270	0,18	0,00	16,90	0,0020
VIS-CV5-UM-280	Stérile	Ultramafique	0,000508	0,08390	0,001	0,700	0,24	0,00	21,10	0,0064
VIS-CV5-UM-281	Stérile	Ultramafique	0,000586	0,18000	0,001	17,700	58,20	4,32	7,36	0,0074
VIS-CV5-UM-282	Stérile	Ultramafique	0,001180	0,06680	0,001	1,040	0,87	0,01	27,50	0,0011
VIS-CV5-UM-283	Stérile	Ultramafique	0,000321	0,03040	0,001	2,160	4,01	0,13	29,30	0,0025
VIS-CV5-UM-284	Stérile	Ultramafique	0,000254	0,04060	0,001	3,800	8,39	0,38	17,50	0,0013
VIS-CV5-UM-285	Stérile	Ultramafique	0,001080	0,05770	0,003	1,710	1,38	0,89	9,92	0,0054
VIS-CV5-UM-286	Stérile	Ultramafique	0,000260	0,00659	0,001	2,190	6,02	0,04	30,90	0,0049
VIS-CV5-UM-287	Stérile	Ultramafique	0,000360	0,00707	0,001	2,210	2,86	0,32	19,20	0,0028
VIS-CV5-UM-288	Stérile	Ultramafique	0,001050	0,11000	0,001	1,890	23,00	0,80	13,10	0,0042
VIS-CV5-UM-289	Stérile	Ultramafique	0,003710	0,17500	0,003	0,660	17,60	0,80	17,70	0,0073
VIS-CV5-UM-290	Stérile	Ultramafique	0,000561	0,01190	0,001	1,110	0,38	0,00	13,70	0,0015
VIS-CV5-UM-291	Stérile	Ultramafique	0,000631	0,18500	0,001	0,290	3,83	0,06	14,80	0,0017

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-MS-222	Stérile	Métasédiment	0,0057	19,8	0,0006	0,03	0,00019	0,03	0,00021	0,00012
VIS-CV5-MS-223	Stérile	Métasédiment	0,0115	15,5	0,0081	0,01	0,00062	0,11	0,00060	0,00009
VIS-CV5-MS-224	Stérile	Métasédiment	0,0099	14,8	0,0011	0,01	0,00045	0,24	0,00314	0,00015
VIS-CV5-MS-225	Stérile	Métasédiment	0,0052	22,3	0,0010	0,03	0,00013	0,04	0,00029	0,00009
VIS-CV5-MS-226	Stérile	Métasédiment	0,0043	17,9	<0,0001	<0,003	<0,00009	0,06	0,00032	<0,00006
VIS-CV5-MS-227	Stérile	Métasédiment	0,0105	5,8	<0,0001	<0,003	<0,00009	0,04	0,00065	<0,00006
VIS-CV5-MS-228	Stérile	Métasédiment	0,0014	15,3	0,0043	0,07	0,00037	0,12	0,00020	0,00024
VIS-CV5-MS-229	Stérile	Métasédiment	0,0038	20,1	0,0005	<0,003	<0,00009	0,01	0,00060	<0,00006
VIS-CV5-MS-230	Stérile	Métasédiment	0,0393	30,8	0,0005	0,02	0,00016	0,16	0,00186	0,00008
VIS-CV5-MS-231	Stérile	Métasédiment	0,0083	15,1	0,0002	0,00	<0,00009	0,00	0,00025	<0,00006
VIS-CV5-MS-232	Stérile	Métasédiment	0,0064	16,7	0,0011	0,01	0,00074	0,43	0,00056	0,00041
VIS-CV5-MS-233	Stérile	Métasédiment	0,0067	20,4	0,0008	0,01	<0,00009	0,05	0,00013	<0,00006
VIS-CV5-MS-234	Stérile	Métasédiment	0,0050	16,4	0,0011	0,01	0,00075	0,02	0,00073	0,00010
VIS-CV5-MS-235	Stérile	Métasédiment	0,0070	19,1	0,0003	0,04	0,00086	0,09	0,00018	0,00019
VIS-CV5-MS-236	Stérile	Métasédiment	0,0045	26,3	0,0002	0,04	0,00030	0,00	0,00012	<0,00006
VIS-CV5-MS-237	Stérile	Métasédiment	0,0086	23,2	0,0002	0,08	0,00016	0,00	0,00012	0,00008
VIS-CV5-MS-238	Stérile	Métasédiment	0,0030	16,0	0,0009	0,02	0,00071	0,13	0,00037	0,00014
VIS-CV5-MS-239	Stérile	Métasédiment	0,0037	24,7	0,0007	0,02	<0,00009	0,33	0,00018	<0,00006
VIS-CV5-MS-240	Stérile	Métasédiment	0,0059	16,3	0,0005	0,01	0,00043	0,01	0,00056	<0,00006
VIS-CV5-MS-241	Stérile	Métasédiment	0,0068	18,8	0,0025	0,03	0,00143	0,08	0,00031	0,00065
VIS-CV5-MS-242	Stérile	Métasédiment	0,0071	15,5	0,0011	0,02	0,00059	0,04	0,00016	0,00064
VIS-CV5-MS-243	Stérile	Métasédiment	0,0071	26,3	0,0017	0,01	0,00022	0,07	0,00032	0,00011
VIS-CV5-MS-244	Stérile	Métasédiment	0,0057	10,5	0,0026	0,09	0,00178	0,04	0,00027	0,00011
VIS-CV5-MS-245	Stérile	Métasédiment	0,0031	13,3	0,0008	0,04	0,00089	0,04	0,00019	0,00015
VIS-CV5-MS-246	Stérile	Métasédiment	0,0230	14,2	0,0009	0,04	0,00561	0,08	0,00060	0,00040
VIS-CV5-MS-247	Stérile	Métasédiment	0,0044	12,3	0,0005	0,07	0,00716	0,13	0,00053	0,00054
VIS-CV5-MS-248	Stérile	Métasédiment	0,0046	12,4	0,0012	0,03	0,00105	0,12	0,00010	0,00007
VIS-CV5-MS-249	Stérile	Métasédiment	0,0086	13,1	0,0006	0,04	0,00115	0,08	0,00033	0,00017
VIS-CV5-MS-250	Stérile	Métasédiment	0,0017	16,9	<0,0001	0,01	<0,00009	0,00	0,00020	0,00016
VIS-CV5-MS-251	Stérile	Métasédiment	0,0112	20,9	0,0010	0,03	0,00069	0,02	0,00012	<0,00006
VIS-CV5-MS-252	Stérile	Métasédiment	0,0029	16,6	0,0007	0,03	0,00013	0,12	0,00053	0,00049
VIS-CV5-MS-253	Stérile	Métasédiment	0,0071	18,1	0,0011	<0,003	<0,00009	0,01	0,00035	<0,00006
VIS-CV5-MS-254	Stérile	Métasédiment	0,0059	13,8	0,0037	0,03	0,00062	0,34	0,00048	0,00028
VIS-CV5-MS-255	Stérile	Métasédiment	0,0125	16,0	0,0029	0,03	0,00111	0,20	0,00026	0,00014
VIS-CV5-MS-256	Stérile	Métasédiment	0,0024	14,5	0,0013	0,02	0,00069	0,05	0,00025	<0,00006
VIS-CV5-MS-257	Stérile	Métasédiment	0,0055	22,0	0,0005	0,07	0,00096	0,00	0,00059	0,00007
VIS-CV5-MS-258	Stérile	Métasédiment	0,0059	9,5	0,0014	0,04	0,00055	0,00	0,00010	0,00032
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,0015	21,3	0,0002	0,02	0,00033	0,17	0,00156	0,00011
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,0233	19,0	<0,0001	0,44	0,00055	0,04	0,00025	0,00065
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,0029	22,5	0,0002	0,09	0,00115	0,16	0,00041	0,00273
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,0080	42,0	<0,0001	0,78	0,00158	0,19	0,00017	0,00238
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,0031	35,9	<0,0001	0,71	0,00056	0,16	0,00139	0,00168
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,0043	34,1	<0,0001	0,48	0,00098	0,10	0,00011	0,00220
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,0016	40,2	<0,0001	0,34	0,00156	0,13	0,00034	0,00160
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,0139	18,1	<0,0001	0,52	0,00324	0,04	0,00020	0,00067
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,0131	19,0	<0,0001	0,97	0,00027	0,05	0,00024	0,00098
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,0260	31,0	0,0002	0,32	0,00061	0,03	0,00014	0,00128
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,0019	22,3	<0,0001	0,64	0,00487	0,17	0,00023	0,00167
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,0017	27,4	0,0006	0,05	0,00218	0,04	0,00021	0,00043
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,0149	22,2	<0,0001	0,97	0,00090	0,17	0,00016	0,00293
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,0026	29,4	0,0003	0,39	0,00092	0,10	0,00022	0,00318
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,0095	23,4	0,0004	0,65	0,00157	0,12	0,00085	0,00135
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,0264	26,7	0,0011	0,06	0,00482	0,12	0,00028	0,00020
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,0012	22,7	0,0002	0,67	0,00065	0,06	0,00021	0,00064
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,0008	23,4	<0,0001	0,59	0,00087	0,14	0,00026	0,00167
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,0016	16,2	0,0002	0,83	0,00088	0,08	0,00019	0,00067
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,0004	27,5	0,0003	1,55	0,00078	0,03	0,00040	0,00423
VIS-CV5-UM-279	Stérile	Ultramafique	0,0007	6,3	0,0028	0,02	<0,00009	0,02	0,00012	<0,00006
VIS-CV5-UM-280	Stérile	Ultramafique	0,0007	7,4	0,0431	0,01	<0,00009	2,34	0,00036	<0,00006
VIS-CV5-UM-281	Stérile	Ultramafique	0,0013	6,5	0,0074	0,02	0,00024	1,69	0,00210	0,00057
VIS-CV5-UM-282	Stérile	Ultramafique	0,0013	19,0	0,0372	0,03	<0,00009	8,02	0,00047	<0,00006
VIS-CV5-UM-283	Stérile	Ultramafique	0,0160	7,8	0,1460	0,01	<0,00009	8,23	0,00089	<0,00006
VIS-CV5-UM-284	Stérile	Ultramafique	0,0040	7,6	0,0249	0,01	<0,00009	5,86	0,00047	<0,00006
VIS-CV5-UM-285	Stérile	Ultramafique	0,0016	7,8	0,0087	0,01	<0,00009	1,00	0,00104	<0,00006
VIS-CV5-UM-286	Stérile	Ultramafique	0,0005	9,2	0,0850	0,03	<0,00009	8,02	0,00078	0,00036
VIS-CV5-UM-287	Stérile	Ultramafique	0,0054	14,2	0,0747	0,03	<0,00009	4,29	0,01009	<0,00006
VIS-CV5-UM-288	Stérile	Ultramafique	0,0028	8,9	0,0136	0,03	<0,00009	2,39	0,00051	<0,00006
VIS-CV5-UM-289	Stérile	Ultramafique	0,0012	6,1	0,0339	0,05	0,00019	2,22	0,00053	0,00007
VIS-CV5-UM-290	Stérile	Ultramafique	0,0004	7,7	0,0112	0,01	<0,00009	3,83	0,00091	0,00012
VIS-CV5-UM-291	Stérile	Ultramafique	0,0007	8,3	0,0140	0,02	<0,00009	1,30	0,00057	<0,00006

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-MS-222	Stérile	Métasédiment	0,00872	0,000153	0,003530	0,0239	0,0165	<0,002
VIS-CV5-MS-223	Stérile	Métasédiment	0,00469	0,000197	0,001700	0,0509	0,0353	0,008
VIS-CV5-MS-224	Stérile	Métasédiment	0,01390	0,000145	0,001720	0,0246	0,0060	0,009
VIS-CV5-MS-225	Stérile	Métasédiment	0,00411	0,000254	0,001530	0,0326	0,0099	0,003
VIS-CV5-MS-226	Stérile	Métasédiment	0,01460	0,000026	0,000607	0,0003	0,0441	<0,002
VIS-CV5-MS-227	Stérile	Métasédiment	0,02530	0,000047	0,000740	0,0003	0,0005	<0,002
VIS-CV5-MS-228	Stérile	Métasédiment	0,00262	0,000117	0,000145	0,0422	0,0637	0,003
VIS-CV5-MS-229	Stérile	Métasédiment	0,03720	0,000024	0,000299	0,0005	0,0033	<0,002
VIS-CV5-MS-230	Stérile	Métasédiment	0,02260	0,000093	0,008350	0,0019	0,0236	<0,002
VIS-CV5-MS-231	Stérile	Métasédiment	0,01740	0,000068	0,001910	0,0066	0,0029	<0,002
VIS-CV5-MS-232	Stérile	Métasédiment	0,01220	0,000089	0,000412	0,0150	0,0199	<0,002
VIS-CV5-MS-233	Stérile	Métasédiment	0,00593	0,000049	0,000112	0,0147	0,0148	<0,002
VIS-CV5-MS-234	Stérile	Métasédiment	0,00439	0,000112	0,004360	0,0413	0,0294	0,008
VIS-CV5-MS-235	Stérile	Métasédiment	0,00440	0,000165	0,004150	0,0438	0,0209	<0,002
VIS-CV5-MS-236	Stérile	Métasédiment	0,00445	0,000042	0,002360	0,0074	0,0559	<0,002
VIS-CV5-MS-237	Stérile	Métasédiment	0,00251	0,000042	0,012400	0,0056	0,0883	<0,002
VIS-CV5-MS-238	Stérile	Métasédiment	0,00434	0,000123	0,001750	0,0727	0,0353	0,004
VIS-CV5-MS-239	Stérile	Métasédiment	0,01250	0,000008	0,000082	0,0115	0,0187	<0,002
VIS-CV5-MS-240	Stérile	Métasédiment	0,00500	0,000038	0,000811	0,0305	0,0171	<0,002
VIS-CV5-MS-241	Stérile	Métasédiment	0,00438	0,000482	0,005530	0,1810	0,0314	0,008
VIS-CV5-MS-242	Stérile	Métasédiment	0,00484	0,000119	0,001800	0,0828	0,0388	0,004
VIS-CV5-MS-243	Stérile	Métasédiment	0,00833	0,000039	0,001370	0,0379	0,0241	<0,002
VIS-CV5-MS-244	Stérile	Métasédiment	0,00288	0,000099	0,000825	0,1280	0,0862	0,008
VIS-CV5-MS-245	Stérile	Métasédiment	0,00296	0,000296	0,005840	0,1190	0,0746	0,004
VIS-CV5-MS-246	Stérile	Métasédiment	0,00381	0,000817	0,010800	0,0971	0,0292	0,006
VIS-CV5-MS-247	Stérile	Métasédiment	0,00417	0,000566	0,006890	0,1740	0,0393	0,006
VIS-CV5-MS-248	Stérile	Métasédiment	0,00496	0,000087	0,001770	0,0819	0,0256	0,004
VIS-CV5-MS-249	Stérile	Métasédiment	0,00540	0,000179	0,003110	0,0816	0,0454	0,003
VIS-CV5-MS-250	Stérile	Métasédiment	0,01160	0,000007	0,001640	0,0007	0,0006	<0,002
VIS-CV5-MS-251	Stérile	Métasédiment	0,01050	0,000043	0,000628	0,0609	0,0169	0,003
VIS-CV5-MS-252	Stérile	Métasédiment	0,00995	0,000084	0,001850	0,0205	0,0124	<0,002
VIS-CV5-MS-253	Stérile	Métasédiment	0,10300	0,000022	0,002120	0,0001	0,0002	<0,002
VIS-CV5-MS-254	Stérile	Métasédiment	0,01090	0,000349	0,001380	0,1170	0,0312	0,003
VIS-CV5-MS-255	Stérile	Métasédiment	0,00729	0,000129	0,002870	0,1260	0,0327	0,015
VIS-CV5-MS-256	Stérile	Métasédiment	0,00496	0,000026	0,000634	0,0979	0,0247	0,006
VIS-CV5-MS-257	Stérile	Métasédiment	0,00569	0,000010	0,008790	0,0298	0,0558	<0,002
VIS-CV5-MS-258	Stérile	Métasédiment	0,00422	0,000018	0,000772	0,1050	0,0279	0,006
VIS-CV5-PEG-259	Stérile	Pegmatite stérile	0,00713	0,000150	0,006350	0,0091	0,0140	<0,002
VIS-CV5-PEG-260	Stérile	Pegmatite stérile	0,00842	0,000920	0,001720	0,0011	0,0045	<0,002
VIS-CV5-PEG-261	Stérile	Pegmatite stérile	0,00825	0,000423	0,005070	0,0021	0,0022	0,009
VIS-CV5-PEG-262	Stérile	Pegmatite stérile	0,00320	0,000348	0,436000	0,0015	0,0023	0,003
VIS-CV5-PEG-263	Stérile	Pegmatite stérile	0,00351	0,000222	0,031800	0,0008	0,0053	0,006
VIS-CV5-PEG-264	Stérile	Pegmatite stérile	0,00155	0,000401	0,266000	0,0029	0,0032	<0,002
VIS-CV5-PEG-265	Stérile	Pegmatite stérile	0,00219	0,000349	0,295000	0,0018	0,0022	0,003
VIS-CV5-PEG-266	Stérile	Pegmatite stérile	0,00703	0,000942	0,001600	0,0006	0,0061	<0,002
VIS-CV5-PEG-267	Stérile	Pegmatite stérile	0,00578	0,000915	0,004960	0,0012	0,0026	<0,002
VIS-CV5-PEG-268	Stérile	Pegmatite stérile	0,01470	0,000463	0,006960	0,0012	0,0053	<0,002
VIS-CV5-PEG-269	Stérile	Pegmatite stérile	0,00322	0,001310	0,988000	0,0022	0,0010	0,004
VIS-CV5-PEG-270	Stérile	Pegmatite stérile	0,00544	0,000042	0,019300	0,0007	0,0054	<0,002
VIS-CV5-PEG-271	Stérile	Pegmatite stérile	0,00528	0,002580	0,050700	0,0014	0,0015	0,005
VIS-CV5-PEG-272	Stérile	Pegmatite stérile	0,00326	0,001130	0,054500	0,0047	0,0039	0,004
VIS-CV5-PEG-273	Stérile	Pegmatite stérile	0,00585	0,001420	0,014600	0,0033	0,0085	0,011
VIS-CV5-PEG-274	Stérile	Pegmatite stérile	0,01780	0,000070	0,007830	0,0012	0,0155	<0,002
VIS-CV5-PEG-275	Stérile	Pegmatite stérile	0,00194	0,001650	0,040000	0,0006	0,0032	0,004
VIS-CV5-PEG-276	Stérile	Pegmatite stérile	0,00242	0,001030	0,058200	0,0021	0,0015	0,003
VIS-CV5-PEG-277	Stérile	Pegmatite stérile	0,00284	0,000977	0,008740	0,0007	0,0057	<0,002
VIS-CV5-PEG-278	Stérile	Pegmatite stérile	0,00305	0,000812	0,017400	0,0038	0,0147	0,006
VIS-CV5-UM-279	Stérile	Ultramafique	0,00934	0,000028	0,000107	0,0005	0,0087	<0,002
VIS-CV5-UM-280	Stérile	Ultramafique	0,02690	0,000064	0,000788	0,0002	0,0322	<0,002
VIS-CV5-UM-281	Stérile	Ultramafique	0,00510	0,007850	0,000283	0,0086	0,0781	<0,002
VIS-CV5-UM-282	Stérile	Ultramafique	0,00993	0,000010	0,000162	0,0005	0,0551	<0,002
VIS-CV5-UM-283	Stérile	Ultramafique	0,05450	0,000133	0,001075	0,0004	0,0395	<0,002
VIS-CV5-UM-284	Stérile	Ultramafique	0,02480	0,000192	0,000261	0,0008	0,0609	<0,002
VIS-CV5-UM-285	Stérile	Ultramafique	0,01530	0,000045	0,000505	0,0050	0,0258	<0,002
VIS-CV5-UM-286	Stérile	Ultramafique	0,01540	0,000129	0,000199	0,0003	0,0218	<0,002
VIS-CV5-UM-287	Stérile	Ultramafique	0,05860	0,000076	0,008510	0,0010	0,0505	<0,002
VIS-CV5-UM-288	Stérile	Ultramafique	0,03890	0,001220	0,000681	0,0030	0,0634	<0,002
VIS-CV5-UM-289	Stérile	Ultramafique	0,02670	0,001280	0,000170	0,0160	0,0613	0,003
VIS-CV5-UM-290	Stérile	Ultramafique	0,01030	0,000024	0,000069	0,0003	0,0240	<0,002
VIS-CV5-UM-291	Stérile	Ultramafique	0,01700	0,000057	0,000223	0,0006	0,0327	<0,002

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alcalinité	Acidité	Chlore	Sulfate	Mercure	Argent
		Unité	pH unit	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu					320	500	0,0014	0,00004
		D019/MDMER								
VIS-CV5-UM-292	Stérile	Ultramafique	8,91	99,00	262,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-293	Stérile	Ultramafique	9,13	68,00	154,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-294	Stérile	Ultramafique	9,30	66,00	162,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-295	Stérile	Ultramafique	9,49	60,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-296	Stérile	Ultramafique	9,39	57,00	166,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-297	Stérile	Ultramafique	8,60	95,00	350,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-298	Stérile	Ultramafique	8,59	82,00	299,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-299	Stérile	Ultramafique	8,52	69,00	213,00	<2,0	28,00	<30,0	<0,00001	0,00007
VIS-CV5-UM-300	Stérile	Ultramafique	8,43	57,00	233,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-UM-301	Stérile	Ultramafique	8,87	69,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-302	Stérile	Ultramafique	8,86	51,00	196,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-303	Stérile	Ultramafique	8,90	79,00	313,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-304	Stérile	Ultramafique	8,71	69,00	225,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-305	Stérile	Ultramafique	8,73	49,00	192,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-306	Stérile	Ultramafique	9,19	56,00	158,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-307	Stérile	Ultramafique	8,65	66,00	316,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-308	Stérile	Ultramafique	8,83	56,00	163,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-309	Stérile	Ultramafique	8,64	50,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-310	Stérile	Ultramafique	8,60	70,00	250,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-311	Stérile	Ultramafique	8,47	83,00	231,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-312	Stérile	Ultramafique	8,95	77,00	169,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-313	Stérile	Ultramafique	8,90	78,00	164,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-314	Stérile	Ultramafique	9,27	51,00	146,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-315	Stérile	Ultramafique	8,61	51,00	236,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-316	Stérile	Ultramafique	8,78	152,00	358,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-317	Stérile	Ultramafique	9,08	62,00	217,00	<2,0	<20,0	<30,0	<0,00001	<0,00006
VIS-CV5-UM-318	Stérile	Ultramafique	8,02	59,00	230,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-319	Stérile	Ultramafique	8,47	156,00	385,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-320	Stérile	Ultramafique	9,73	84,00	233,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-321	Stérile	Ultramafique	9,36	52,00	149,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-322	Stérile	Ultramafique	9,28	70,00	308,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-UM-323	Stérile	Ultramafique	9,07	48,00	184,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-UM-324	Stérile	Ultramafique	9,03	61,00	207,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-325	Stérile	Ultramafique	9,06	73,00	188,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-UM-326	Stérile	Ultramafique	9,11	74,00	226,00	<2,0	<20,0	<30,0	<0,00001	0,00006
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	9,17	92,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	9,37	101,00	238,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	9,38	94,00	193,00	<2,0	<20,0	<30,0	<0,00001	0,00015
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	8,71	58,00	150,00	<2,0	<20,0	<30,0	<0,00001	0,00010
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	9,58	135,00	277,00	<2,0	<20,0	<30,0	<0,00001	0,00005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	9,46	106,00	226,00	<2,0	<20,0	<30,0	<0,00001	0,00011
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	9,03	99,00	237,00	<2,0	<20,0	<30,0	<0,00001	0,00007
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	9,28	92,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	8,38	71,00	253,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	8,87	88,00	242,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	8,83	81,00	184,00	<2,0	<20,0	<30,0	<0,00001	0,00025
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	9,05	78,00	186,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	9,53	103,00	219,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	9,42	95,00	199,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	8,84	85,00	210,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	8,54	68,00	227,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	9,17	92,00	256,00	<2,0	<20,0	<30,0	<0,00001	<0,00005
CV5-MAG-C	Résidu	CV5-MAG-C	9,25	207,00	87,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-DMS-MID	Résidu	CV5-DMS-MID	9,39	191,00	88,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-FLO-C	Résidu	CV5-FLO-C	9,33	169,00	72,00	<2,0	<20,0	<20,0	<0,00001	0,00006
CV5-MAG-F	Résidu	CV5-MAG-F	9,16	177,00	71,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-MID-F	Résidu	CV5-MID-F	9,29	165,00	69,00	<2,0	<20,0	<20,0	<0,00001	<0,00005
CV5-FLO-F	Résidu	CV5-FLO-F	9,51	194,00	76,00	<2,0	24,00	<20,0	<0,00001	0,00012
CV5-BYP-CP	Résidu	CV5-BYP-CP	9,42	210,00	98,00	<2,0	<20,0	<20,0	<0,00001	<0,00005

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# échantillon	Type de matériel	Lithologie	Aluminum	Arsenic	Bore	Baryum	Béryllium	Bismuth	Calcium	Cadmium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,28	0,34	28	0,10807	0,00124			0,00021
		D019/MDMER		0,10						
VIS-CV5-UM-292	Stérile	Ultramafique	0,04	43,10	0,06	0,00237	0,000012	<0,00001	9,62	0,000004
VIS-CV5-UM-293	Stérile	Ultramafique	0,18	3,85	0,05	0,00116	0,000021	0,000030	4,34	0,000009
VIS-CV5-UM-294	Stérile	Ultramafique	0,26	0,19	0,04	0,00060	<0,000007	<0,00001	5,13	0,000004
VIS-CV5-UM-295	Stérile	Ultramafique	0,45	0,47	0,09	0,00103	0,000014	<0,00001	4,27	0,000008
VIS-CV5-UM-296	Stérile	Ultramafique	0,20	2,15	0,08	0,00127	0,000024	0,000020	7,18	<0,000003
VIS-CV5-UM-297	Stérile	Ultramafique	0,06	42,20	0,06	0,00429	0,000014	<0,00001	11,10	0,000007
VIS-CV5-UM-298	Stérile	Ultramafique	0,06	14,50	0,17	0,00397	0,000007	0,000020	6,06	0,000008
VIS-CV5-UM-299	Stérile	Ultramafique	0,22	1,61	0,08	0,00178	0,000040	0,000030	8,93	0,000013
VIS-CV5-UM-300	Stérile	Ultramafique	0,11	4,34	0,06	0,00147	<0,000007	0,000060	9,18	0,000009
VIS-CV5-UM-301	Stérile	Ultramafique	0,21	3,36	0,14	0,00195	0,000020	0,000020	7,22	0,000014
VIS-CV5-UM-302	Stérile	Ultramafique	0,29	1,46	0,15	0,00164	0,000010	0,000020	4,82	0,000003
VIS-CV5-UM-303	Stérile	Ultramafique	0,17	0,25	0,16	0,00218	0,000078	<0,00001	7,88	0,000006
VIS-CV5-UM-304	Stérile	Ultramafique	0,19	7,63	0,12	0,00255	<0,000007	<0,00001	11,10	<0,000003
VIS-CV5-UM-305	Stérile	Ultramafique	0,10	3,26	0,13	0,00253	0,000015	<0,00001	10,00	0,000006
VIS-CV5-UM-306	Stérile	Ultramafique	0,66	0,09	0,08	0,00096	0,000007	<0,00001	4,71	0,000033
VIS-CV5-UM-307	Stérile	Ultramafique	0,16	11,50	0,42	0,00509	0,000022	0,000030	9,07	0,000006
VIS-CV5-UM-308	Stérile	Ultramafique	0,09	9,42	0,12	0,00237	0,000014	<0,00001	7,37	<0,000003
VIS-CV5-UM-309	Stérile	Ultramafique	0,13	0,35	0,10	0,00181	0,000012	<0,00001	7,23	<0,000003
VIS-CV5-UM-310	Stérile	Ultramafique	0,11	17,40	0,12	0,00384	<0,000007	<0,00001	10,80	<0,000003
VIS-CV5-UM-311	Stérile	Ultramafique	0,05	29,70	0,14	0,00517	<0,000007	<0,00001	10,50	<0,000003
VIS-CV5-UM-312	Stérile	Ultramafique	0,56	1,72	0,10	0,00420	0,000010	<0,00001	2,96	<0,000003
VIS-CV5-UM-313	Stérile	Ultramafique	0,04	8,52	0,06	0,00178	<0,000007	<0,00001	6,11	<0,000003
VIS-CV5-UM-314	Stérile	Ultramafique	0,24	0,44	0,11	0,00118	0,000013	<0,00001	3,91	<0,000003
VIS-CV5-UM-315	Stérile	Ultramafique	0,07	1,22	0,13	0,00221	0,000008	<0,00001	13,40	<0,000003
VIS-CV5-UM-316	Stérile	Ultramafique	0,01	58,90	0,17	0,00606	<0,000007	0,000020	13,80	<0,000003
VIS-CV5-UM-317	Stérile	Ultramafique	0,23	2,57	0,11	0,00211	0,000023	<0,00001	6,75	0,000008
VIS-CV5-UM-318	Stérile	Ultramafique	0,28	1,12	0,09	0,00216	0,000028	0,000040	12,90	0,000010
VIS-CV5-UM-319	Stérile	Ultramafique	0,01	96,10	0,17	0,00737	<0,000007	<0,00001	23,70	<0,000003
VIS-CV5-UM-320	Stérile	Ultramafique	0,35	2,93	0,21	0,00305	0,000062	0,000060	3,39	0,000003
VIS-CV5-UM-321	Stérile	Ultramafique	0,37	2,81	0,11	0,00225	0,000044	<0,00001	4,96	0,000004
VIS-CV5-UM-322	Stérile	Ultramafique	0,15	0,20	0,07	0,00270	<0,000007	<0,00001	9,20	<0,000003
VIS-CV5-UM-323	Stérile	Ultramafique	0,09	0,38	0,10	0,00207	0,000010	<0,00001	8,30	<0,000003
VIS-CV5-UM-324	Stérile	Ultramafique	0,33	3,02	0,12	0,00248	0,000537	0,000030	9,09	<0,000003
VIS-CV5-UM-325	Stérile	Ultramafique	0,12	5,09	0,09	0,00245	0,000029	<0,00001	4,38	<0,000003
VIS-CV5-UM-326	Stérile	Ultramafique	0,27	0,80	0,32	0,00147	0,000050	<0,00001	6,07	<0,000003
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	1,88	0,32	0,32	0,00223	0,001190	0,000400	3,22	0,000017
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	6,10	0,95	0,26	0,00303	0,001600	0,000360	0,97	0,000030
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	7,98	2,66	0,39	0,00768	0,001370	0,001050	0,93	0,000042
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	3,69	1,19	0,29	0,00427	0,000951	0,056100	0,89	0,000059
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	6,99	4,05	0,42	0,00438	0,000468	0,000070	0,75	0,000029
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	4,71	1,79	0,30	0,00437	0,000542	0,001400	0,78	0,000021
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	5,82	3,54	0,53	0,00326	0,000289	0,000200	0,40	0,000006
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	5,75	0,48	0,23	0,00700	0,001100	0,000100	1,21	0,000043
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,78	0,15	0,34	0,00162	0,000906	0,000170	1,63	0,000013
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	3,94	1,82	0,29	0,00202	0,000460	0,003370	1,00	0,000016
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	7,12	1,43	0,40	0,00177	0,000500	0,000930	0,45	0,000031
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	2,77	0,96	0,25	0,00091	0,000286	0,009650	0,61	0,000017
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	5,98	1,43	0,37	0,00155	0,000319	0,000140	0,50	0,000011
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	3,66	0,28	0,29	0,00052	0,000232	0,001180	0,71	0,000014
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	1,29	0,18	0,23	0,00117	0,001010	0,001120	0,85	0,000015
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,66	0,55	0,29	0,00089	0,000266	0,000360	2,57	0,000004
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	1,88	0,32	0,32	0,00223	0,001190	0,000400	3,22	0,000017
CV5-MAG-C	Résidu	CV5-MAG-C	0,08600	11,70	0,19	0,00226	0,000014	0,000020	6,93	0,000011
CV5-DMS-MID	Résidu	CV5-DMS-MID	1,23000	1,03	0,21	0,00228	0,000604	0,004290	1,26	0,000028
CV5-FLO-C	Résidu	CV5-FLO-C	1,82000	1,68	0,14	0,00165	0,000493	0,003240	0,91	0,000020
CV5-MAG-F	Résidu	CV5-MAG-F	0,40500	4,85	0,48	0,00140	0,000105	0,000150	3,43	0,000015
CV5-MID-F	Résidu	CV5-MID-F	1,69000	1,94	0,20	0,00342	0,000904	0,003070	2,02	0,000025
CV5-FLO-F	Résidu	CV5-FLO-F	2,36000	0,95	0,14	0,00254	0,001110	0,003700	1,14	0,000027
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,59	2,88	0,22	0,00268	0,000380	0,000840	3,09	0,000043

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Cobalt	Chrome	Cuivre	Fer	Potassium	Lithium	Magnésium	Manganèse
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	0,37000	0,016	0,0016	3,4		0,9100		0,55
		D019/MDMER		0,209	0,100	3,0				
VIS-CV5-UM-292	Stérile	Ultramafique	0,000959	0,08270	0,001	0,510	0,76	0,00	22,40	0,0010
VIS-CV5-UM-293	Stérile	Ultramafique	0,001180	0,08720	0,001	0,970	0,48	0,01	12,40	0,0040
VIS-CV5-UM-294	Stérile	Ultramafique	0,000093	0,09830	0,001	0,910	0,71	0,83	8,76	0,0008
VIS-CV5-UM-295	Stérile	Ultramafique	0,000367	0,04650	0,002	1,040	5,57	2,03	2,43	0,0077
VIS-CV5-UM-296	Stérile	Ultramafique	0,000365	0,04460	0,002	2,990	4,18	1,66	3,74	0,0089
VIS-CV5-UM-297	Stérile	Ultramafique	0,001190	0,13600	0,001	0,800	0,40	0,01	28,90	0,0015
VIS-CV5-UM-298	Stérile	Ultramafique	0,000154	0,15700	0,002	6,380	33,10	2,57	7,88	0,0014
VIS-CV5-UM-299	Stérile	Ultramafique	0,000578	0,03500	0,001	1,800	2,54	0,96	9,36	0,0157
VIS-CV5-UM-300	Stérile	Ultramafique	0,000628	0,12400	0,001	1,150	3,06	0,55	10,40	0,0028
VIS-CV5-UM-301	Stérile	Ultramafique	0,000559	0,07250	0,003	0,760	6,86	1,15	4,88	0,0059
VIS-CV5-UM-302	Stérile	Ultramafique	0,000084	0,02600	0,001	0,270	15,00	1,50	3,10	0,0009
VIS-CV5-UM-303	Stérile	Ultramafique	0,000194	0,00676	0,001	2,700	10,80	1,20	4,92	0,0032
VIS-CV5-UM-304	Stérile	Ultramafique	0,000999	0,05840	0,003	0,310	7,97	0,71	6,51	0,0056
VIS-CV5-UM-305	Stérile	Ultramafique	0,000286	0,04020	0,001	1,100	10,70	0,48	4,66	0,0033
VIS-CV5-UM-306	Stérile	Ultramafique	0,000151	0,13400	0,001	0,270	4,10	1,32	5,13	0,0027
VIS-CV5-UM-307	Stérile	Ultramafique	0,000747	0,02210	0,004	3,760	27,80	2,63	11,20	0,0054
VIS-CV5-UM-308	Stérile	Ultramafique	0,000251	0,03550	0,001	1,210	9,49	0,33	6,35	0,0023
VIS-CV5-UM-309	Stérile	Ultramafique	0,000200	0,04860	0,001	1,450	4,84	1,02	3,81	0,0036
VIS-CV5-UM-310	Stérile	Ultramafique	0,000590	0,08390	0,001	1,570	20,10	1,42	6,18	0,0037
VIS-CV5-UM-311	Stérile	Ultramafique	0,000553	0,01160	0,001	1,270	10,30	0,57	14,00	0,0023
VIS-CV5-UM-312	Stérile	Ultramafique	0,001130	0,09340	0,001	0,350	18,90	1,04	4,24	0,0063
VIS-CV5-UM-313	Stérile	Ultramafique	0,000478	0,06710	0,001	0,410	0,37	0,01	13,80	0,0016
VIS-CV5-UM-314	Stérile	Ultramafique	0,000191	0,04380	0,001	1,210	7,21	2,32	1,54	0,0045
VIS-CV5-UM-315	Stérile	Ultramafique	0,000177	0,04180	0,001	1,570	7,48	1,20	6,23	0,0018
VIS-CV5-UM-316	Stérile	Ultramafique	0,000528	0,00474	0,001	1,870	2,75	0,02	35,10	0,0010
VIS-CV5-UM-317	Stérile	Ultramafique	0,000507	0,11400	0,001	1,490	9,41	2,93	6,07	0,0034
VIS-CV5-UM-318	Stérile	Ultramafique	0,000806	0,08300	0,003	1,130	6,51	0,92	4,69	0,0082
VIS-CV5-UM-319	Stérile	Ultramafique	0,000454	0,00295	0,001	0,980	0,88	0,02	37,80	0,0017
VIS-CV5-UM-320	Stérile	Ultramafique	0,000416	0,20900	0,002	7,730	32,30	3,33	2,40	0,0112
VIS-CV5-UM-321	Stérile	Ultramafique	0,000298	0,08380	0,001	1,590	9,58	1,28	1,84	0,0066
VIS-CV5-UM-322	Stérile	Ultramafique	0,000114	0,08880	0,001	1,280	11,90	2,30	13,00	0,0013
VIS-CV5-UM-323	Stérile	Ultramafique	0,000144	0,03520	0,001	1,420	9,87	0,98	3,23	0,0026
VIS-CV5-UM-324	Stérile	Ultramafique	0,000843	0,06710	0,002	2,560	5,41	0,82	4,49	0,0067
VIS-CV5-UM-325	Stérile	Ultramafique	0,000379	0,12000	0,001	2,660	22,90	0,91	6,60	0,0028
VIS-CV5-UM-326	Stérile	Ultramafique	0,000436	0,00527	0,001	3,070	1,74	0,09	2,15	0,0032
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,000208	0,00162	0,001	8,830	21,10	6,25	0,64	0,0407
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,000111	0,00474	0,002	9,000	5,84	9,73	0,15	0,1640
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,000155	0,00428	0,002	6,210	1,42	7,49	0,23	0,1530
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,000126	0,01550	0,002	6,900	3,37	3,22	0,24	0,0850
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,000081	0,00327	0,001	10,600	2,99	12,60	0,19	0,1160
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,000067	0,00256	0,001	5,920	4,05	6,98	0,25	0,0732
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,000041	0,00116	0,001	11,500	1,38	7,17	0,12	0,0354
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,000235	0,00244	0,006	5,720	8,93	7,41	0,55	0,1350
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,000042	0,00037	0,001	3,980	20,10	2,33	0,65	0,0059
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,000064	0,00190	0,001	9,530	16,00	7,67	0,18	0,0577
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,000048	0,00579	0,001	4,420	1,55	4,16	0,06	0,0536
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,000026	0,00690	0,001	5,150	13,50	3,04	0,08	0,0177
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,000021	0,00262	0,001	5,150	2,54	5,54	0,07	0,0279
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,000017	0,00224	0,001	1,890	5,46	2,65	0,06	0,0131
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,000045	0,00263	0,001	2,250	8,68	3,06	0,13	0,0157
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,000024	0,00078	0,001	3,660	13,80	3,12	0,44	0,0085
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,000208	0,00162	0,001	8,830	21,10	6,25	0,64	0,0407
CV5-MAG-C	Résidu	CV5-MAG-C	0,000391	0,09100	0,001	0,113	14,10	1,27	10,60	0,0026
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,000361	0,01190	0,001	0,288	10,90	2,37	0,57	0,0180
CV5-FLO-C	Résidu	CV5-FLO-C	0,000082	0,00395	0,001	0,086	10,30	0,59	0,14	0,0311
CV5-MAG-F	Résidu	CV5-MAG-F	0,000714	0,02790	0,001	0,246	23,80	2,18	2,90	0,0150
CV5-MID-F	Résidu	CV5-MID-F	0,001160	0,02780	0,002	0,710	15,40	1,71	1,74	0,0427
CV5-FLO-F	Résidu	CV5-FLO-F	0,000214	0,01040	0,002	0,245	12,00	0,82	0,32	0,0289
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,000549	0,02290	0,003	0,251	10,70	2,16	2,35	0,0149

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Molybdène	Sodium	Nickel	Phosphore réactif total	Plomb	Antimoine	Sélénium	Etain
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	29,00		0,067		0,004	0,310	0,062	
		D019/MDMER			0,250		0,080			
VIS-CV5-UM-292	Stérile	Ultramafique	0,0004	7,3	0,0707	0,01	<0,00009	1,49	0,00037	<0,00006
VIS-CV5-UM-293	Stérile	Ultramafique	0,0009	7,3	0,0151	0,01	0,00012	0,46	0,00023	0,00007
VIS-CV5-UM-294	Stérile	Ultramafique	0,0040	6,6	0,0010	<0,003	<0,00009	0,08	0,00063	<0,00006
VIS-CV5-UM-295	Stérile	Ultramafique	0,0021	10,6	0,0019	0,01	<0,00009	0,06	0,00021	<0,00006
VIS-CV5-UM-296	Stérile	Ultramafique	0,0007	11,9	0,0028	0,01	<0,00009	0,16	0,00037	0,00009
VIS-CV5-UM-297	Stérile	Ultramafique	0,0047	8,0	0,0411	0,01	<0,00009	1,48	0,00157	<0,00006
VIS-CV5-UM-298	Stérile	Ultramafique	0,0032	8,1	0,0028	0,03	0,00109	0,43	0,00045	<0,00006
VIS-CV5-UM-299	Stérile	Ultramafique	0,0140	10,3	0,0029	0,02	0,00014	0,35	0,00052	0,00011
VIS-CV5-UM-300	Stérile	Ultramafique	0,0024	9,1	0,0047	0,02	0,00011	0,30	0,00122	0,00010
VIS-CV5-UM-301	Stérile	Ultramafique	0,0144	10,5	0,0035	0,02	0,00013	0,53	0,00055	0,00036
VIS-CV5-UM-302	Stérile	Ultramafique	0,0021	8,2	0,0011	0,01	<0,00009	0,04	0,00387	<0,00006
VIS-CV5-UM-303	Stérile	Ultramafique	0,0073	28,8	0,0016	0,03	0,00013	0,67	0,00084	0,00013
VIS-CV5-UM-304	Stérile	Ultramafique	0,0040	19,0	0,0147	0,01	<0,00009	0,54	0,00075	0,00010
VIS-CV5-UM-305	Stérile	Ultramafique	0,0038	13,1	0,0050	0,01	<0,00009	0,13	0,00081	0,00007
VIS-CV5-UM-306	Stérile	Ultramafique	0,0831	11,5	0,0017	0,01	<0,00009	0,04	0,00111	0,00012
VIS-CV5-UM-307	Stérile	Ultramafique	0,0106	10,9	0,0101	0,06	0,00016	1,37	0,00098	0,00016
VIS-CV5-UM-308	Stérile	Ultramafique	0,0005	10,1	0,0036	0,02	<0,00009	0,59	0,00019	0,00008
VIS-CV5-UM-309	Stérile	Ultramafique	0,0012	19,0	0,0016	0,01	<0,00009	0,26	0,00054	0,00016
VIS-CV5-UM-310	Stérile	Ultramafique	0,0045	15,3	0,0055	0,01	<0,00009	0,69	0,00016	0,00007
VIS-CV5-UM-311	Stérile	Ultramafique	0,0066	9,3	0,0264	0,03	<0,00009	3,50	0,00058	0,00009
VIS-CV5-UM-312	Stérile	Ultramafique	0,0005	14,0	0,0077	0,04	0,00013	0,28	0,00013	0,00016
VIS-CV5-UM-313	Stérile	Ultramafique	0,0004	8,3	0,0115	0,01	0,00010	0,93	0,00021	0,00008
VIS-CV5-UM-314	Stérile	Ultramafique	0,0009	12,4	0,0009	0,01	<0,00009	0,22	0,00024	0,00008
VIS-CV5-UM-315	Stérile	Ultramafique	0,0030	15,2	0,0025	0,02	<0,00009	0,09	0,00169	<0,00006
VIS-CV5-UM-316	Stérile	Ultramafique	0,0013	13,0	0,1290	0,01	<0,00009	3,66	0,00052	0,00011
VIS-CV5-UM-317	Stérile	Ultramafique	0,0097	13,2	0,0042	0,02	<0,00009	0,24	0,00034	0,00011
VIS-CV5-UM-318	Stérile	Ultramafique	0,0127	19,9	0,0090	0,02	<0,00009	0,15	0,00105	0,00011
VIS-CV5-UM-319	Stérile	Ultramafique	0,0004	10,5	0,3690	0,02	<0,00009	6,52	0,00095	<0,00006
VIS-CV5-UM-320	Stérile	Ultramafique	0,0008	10,6	0,0030	0,03	0,00010	0,33	0,00092	0,00019
VIS-CV5-UM-321	Stérile	Ultramafique	0,0006	12,3	0,0019	0,01	0,00046	0,28	0,00023	0,00015
VIS-CV5-UM-322	Stérile	Ultramafique	0,0042	16,8	0,0010	0,01	<0,00009	0,23	0,00068	0,00008
VIS-CV5-UM-323	Stérile	Ultramafique	0,0013	14,8	0,0011	0,01	<0,00009	0,11	0,00091	0,00008
VIS-CV5-UM-324	Stérile	Ultramafique	0,0028	23,0	0,0062	0,04	<0,00009	0,34	0,00061	0,00029
VIS-CV5-UM-325	Stérile	Ultramafique	0,0009	9,6	0,0040	0,02	<0,00009	0,41	0,00012	0,00008
VIS-CV5-UM-326	Stérile	Ultramafique	0,0044	42,9	0,0018	0,01	0,00041	0,92	0,00079	0,00009
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,0036	18,9	0,0006	0,47	0,00032	0,09	0,00012	0,00174
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,0089	18,4	0,0002	2,58	0,00069	0,57	0,00018	0,00453
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,0066	18,2	0,0003	2,51	0,00313	3,84	0,00013	0,00327
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,0053	20,1	0,0005	0,93	0,00133	0,45	0,00116	0,00267
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,0047	20,3	0,0003	1,98	0,00152	4,60	0,00021	0,00293
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,0056	24,4	<0,0001	1,04	0,00082	0,44	0,00015	0,00167
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,0032	25,1	0,0002	1,71	0,00043	2,58	0,00005	0,00210
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,0027	18,1	0,0011	1,11	0,00198	0,11	0,00014	0,00421
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,0013	20,8	<0,0001	0,31	0,00015	0,07	0,00047	0,00103
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,0044	15,5	0,0002	1,82	0,00052	0,59	0,00009	0,00264
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,0024	23,2	<0,0001	2,43	0,00143	0,27	0,00018	0,00155
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,0059	21,6	0,0002	1,90	0,00102	0,19	0,00047	0,00077
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,0011	28,9	<0,0001	1,35	0,00087	0,91	0,00021	0,00122
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,0049	31,3	<0,0001	1,26	0,00029	0,14	0,00029	0,00065
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,0179	27,1	0,0002	0,64	0,00043	0,05	0,00016	0,00055
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,0029	21,8	<0,0001	0,61	0,00046	0,13	0,00049	0,00044
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,0036	18,9	0,0006	0,47	0,00032	0,09	0,00012	0,00174
CV5-MAG-C	Résidu	CV5-MAG-C	0,0034	12,4	0,0057	4,26	<0,00009	1,61	0,00065	0,00010
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,0157	20,3	0,0020	1,04	0,00098	0,34	0,00013	0,00107
CV5-FLO-C	Résidu	CV5-FLO-C	0,0055	29,7	0,0004	1,42	0,00136	0,31	0,00038	0,00073
CV5-MAG-F	Résidu	CV5-MAG-F	0,0048	11,1	0,0054	2,14	0,00026	0,94	0,00035	0,00143
CV5-MID-F	Résidu	CV5-MID-F	0,0026	18,3	0,0088	1,02	0,00139	0,43	0,00014	0,00198
CV5-FLO-F	Résidu	CV5-FLO-F	0,0057	35,3	0,0011	1,01	0,00234	0,28	0,00039	0,00116
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,0059	23,2	0,0046	1,34	0,00125	0,50	0,00032	0,00080

Essais CTEU-9

# échantillon	Type de matériel	Lithologie	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CVAA - Effet aigu	40	0,047	0,017		0,110	0,017
		D019/MDMER						0,400
VIS-CV5-UM-292	Stérile	Ultramafique	0,01670	0,000008	0,000172	0,0005	0,0414	<0,002
VIS-CV5-UM-293	Stérile	Ultramafique	0,01030	0,000024	0,000294	0,0008	0,0221	<0,002
VIS-CV5-UM-294	Stérile	Ultramafique	0,00884	0,000011	0,000087	0,0009	0,0217	<0,002
VIS-CV5-UM-295	Stérile	Ultramafique	0,00618	0,000040	0,000206	0,0134	0,0716	<0,002
VIS-CV5-UM-296	Stérile	Ultramafique	0,01340	0,000194	0,000508	0,0073	0,1030	<0,002
VIS-CV5-UM-297	Stérile	Ultramafique	0,03370	0,000030	0,000108	0,0007	0,0361	<0,002
VIS-CV5-UM-298	Stérile	Ultramafique	0,01300	0,000936	0,000452	0,0006	0,0659	<0,002
VIS-CV5-UM-299	Stérile	Ultramafique	0,01840	0,000022	0,000406	0,0033	0,0372	<0,002
VIS-CV5-UM-300	Stérile	Ultramafique	0,01020	0,000036	0,000899	0,0021	0,0365	<0,002
VIS-CV5-UM-301	Stérile	Ultramafique	0,01070	0,000075	0,000593	0,0067	0,0571	<0,002
VIS-CV5-UM-302	Stérile	Ultramafique	0,00539	0,000028	0,000139	0,0012	0,0337	<0,002
VIS-CV5-UM-303	Stérile	Ultramafique	0,01660	0,000222	0,002670	0,0058	0,0217	<0,002
VIS-CV5-UM-304	Stérile	Ultramafique	0,01930	0,000019	0,000193	0,0051	0,0440	<0,002
VIS-CV5-UM-305	Stérile	Ultramafique	0,02000	0,000025	0,000360	0,0035	0,0698	<0,002
VIS-CV5-UM-306	Stérile	Ultramafique	0,00598	<0,000005	0,000007	0,0040	0,0438	<0,002
VIS-CV5-UM-307	Stérile	Ultramafique	0,01490	0,000364	0,004010	0,0101	0,0459	<0,002
VIS-CV5-UM-308	Stérile	Ultramafique	0,04530	0,000271	0,000102	0,0024	0,0273	<0,002
VIS-CV5-UM-309	Stérile	Ultramafique	0,01400	0,000061	0,000269	0,0030	0,0486	<0,002
VIS-CV5-UM-310	Stérile	Ultramafique	0,02450	0,000091	0,000205	0,0049	0,0788	<0,002
VIS-CV5-UM-311	Stérile	Ultramafique	0,02720	0,000156	0,000500	0,0013	0,0401	<0,002
VIS-CV5-UM-312	Stérile	Ultramafique	0,00985	0,000169	0,000050	0,0193	0,0519	<0,002
VIS-CV5-UM-313	Stérile	Ultramafique	0,01300	0,000027	0,000086	0,0005	0,0203	<0,002
VIS-CV5-UM-314	Stérile	Ultramafique	0,00661	0,000049	0,001190	0,0060	0,0881	<0,002
VIS-CV5-UM-315	Stérile	Ultramafique	0,02080	0,000097	0,000908	0,0030	0,0744	<0,002
VIS-CV5-UM-316	Stérile	Ultramafique	0,03940	0,000013	0,000068	0,0003	0,0082	<0,002
VIS-CV5-UM-317	Stérile	Ultramafique	0,01550	0,000158	0,000737	0,0059	0,0488	<0,002
VIS-CV5-UM-318	Stérile	Ultramafique	0,02100	0,000078	0,000471	0,0109	0,0928	<0,002
VIS-CV5-UM-319	Stérile	Ultramafique	0,11200	<0,000005	0,000036	0,0002	0,0085	<0,002
VIS-CV5-UM-320	Stérile	Ultramafique	0,00556	0,000712	0,000521	0,0181	0,0910	<0,002
VIS-CV5-UM-321	Stérile	Ultramafique	0,00822	0,000061	0,002910	0,0042	0,0704	<0,002
VIS-CV5-UM-322	Stérile	Ultramafique	0,02090	0,000147	0,000144	0,0015	0,0134	<0,002
VIS-CV5-UM-323	Stérile	Ultramafique	0,01540	0,000114	0,000179	0,0027	0,0504	<0,002
VIS-CV5-UM-324	Stérile	Ultramafique	0,01460	0,000094	0,002000	0,0104	0,0704	<0,002
VIS-CV5-UM-325	Stérile	Ultramafique	0,01230	0,000426	0,000044	0,0023	0,0405	<0,002
VIS-CV5-UM-326	Stérile	Ultramafique	0,04360	0,000046	0,000025	0,0015	0,0477	<0,002
VIS-CV5-SP-327	Minerai	Pegmatite spodumène	0,00583	0,000651	0,021700	0,0019	0,0056	<0,002
VIS-CV5-SP-328	Minerai	Pegmatite spodumène	0,00317	0,001260	0,026300	0,0037	0,0009	0,005
VIS-CV5-SP-329	Minerai	Pegmatite spodumène	0,00643	0,000877	0,114000	0,0024	0,0016	0,007
VIS-CV5-SP-330	Minerai	Pegmatite spodumène	0,00483	0,000727	0,007790	0,0036	0,0018	0,010
VIS-CV5-SP-331	Minerai	Pegmatite spodumène	0,00299	0,000712	0,026500	0,0017	0,0013	0,005
VIS-CV5-SP-332	Minerai	Pegmatite spodumène	0,00266	0,000515	0,071400	0,0019	0,0012	0,005
VIS-CV5-SP-333	Minerai	Pegmatite spodumène	0,00180	0,000412	0,048400	0,0013	0,0012	0,004
VIS-CV5-SP-334	Minerai	Pegmatite spodumène	0,00624	0,000857	0,030300	0,0024	0,0021	0,008
VIS-CV5-SP-335	Minerai	Pegmatite spodumène	0,00517	0,000291	0,013000	0,0005	0,0016	<0,002
VIS-CV5-SP-336	Minerai	Pegmatite spodumène	0,00293	0,001370	0,008890	0,0029	0,0008	0,004
VIS-CV5-SP-337	Minerai	Pegmatite spodumène	0,00161	0,000764	0,080000	0,0013	0,0009	0,005
VIS-CV5-SP-338	Minerai	Pegmatite spodumène	0,00169	0,000851	0,024400	0,0008	0,0016	<0,002
VIS-CV5-SP-339	Minerai	Pegmatite spodumène	0,00144	0,000621	0,214000	0,0014	0,0017	<0,002
VIS-CV5-SP-340	Minerai	Pegmatite spodumène	0,00119	0,000298	0,209000	0,0005	0,0016	<0,002
VIS-CV5-SP-341	Minerai	Pegmatite spodumène	0,00114	0,000411	0,057600	0,0011	0,0077	<0,002
VIS-CV5-SP-342	Minerai	Pegmatite spodumène	0,00604	0,000333	0,014800	0,0005	0,0012	<0,002
VIS-CV5-SP-343	Minerai	Pegmatite spodumène	0,00583	0,000651	0,021700	0,0019	0,0056	<0,002
CV5-MAG-C	Résidu	CV5-MAG-C	0,01560	0,000168	0,006440	0,0019	0,0660	<0,002
CV5-DMS-MID	Résidu	CV5-DMS-MID	0,00317	0,000462	0,061500	0,0121	0,0244	0,003
CV5-FLO-C	Résidu	CV5-FLO-C	0,00461	0,001650	0,156000	0,0014	0,0031	0,003
CV5-MAG-F	Résidu	CV5-MAG-F	0,00566	0,000345	0,021000	0,0054	0,0422	0,003
CV5-MID-F	Résidu	CV5-MID-F	0,00469	0,000516	0,024200	0,0195	0,0278	0,004
CV5-FLO-F	Résidu	CV5-FLO-F	0,00310	0,002690	0,132000	0,0052	0,0082	0,004
CV5-BYP-CP	Résidu	CV5-BYP-CP	0,00735	0,000310	0,065700	0,0060	0,0356	0,004

Essais TCLP

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alkalinité	Acidité	Fluoride	Bromide	Chlore	Sulfate	Nitrite
		Unité	Unité pH	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l	mgN/l
		D019 – Critère risques élevés					150				100
1	Stérile	Amphibolite	5,28	5540	2200	1040	<0,06	<30,0	<20,0	<20,0	<3,0
2	Stérile	Amphibolite	5,07	5090	1780	1470	<0,06	<30,0	<20,0	<20,0	<3,0
3	Stérile	Amphibolite	5,73	6190	2720	496	<0,06	<30,0	<20,0	<20,0	<3,0
4	Stérile	Amphibolite	5	4880	1600	1640	<0,06	<30,0	<20,0	<20,0	<3,0
5	Stérile	Amphibolite	5,11	5160	1830	1440	0,58	<30,0	<20,0	<20,0	<3,0
6	Stérile	Amphibolite	7,14	6660	3270	813	<0,06	<30,0	<20,0	<20,0	<3,0
7	Stérile	Amphibolite	5,69	5990	2680	1370	<0,06	<30,0	<20,0	<20,0	<3,0
8	Stérile	Amphibolite	5,05	4820	1660	2390	0,12	<30,0	<20,0	<20,0	<3,0
9	Stérile	Amphibolite	5,05	5010	1770	1510	<0,06	<30,0	<20,0	<20,0	<3,0
10	Stérile	Amphibolite	5,03	4970	1660	1560	<0,06	<30,0	<20,0	<20,0	<3,0
11	Stérile	Amphibolite	5,79	5920	2800	1270	<0,06	<30,0	<20,0	<20,0	<3,0
12	Stérile	Amphibolite	6,96	6540	3250	911	<0,06	<30,0	<20,0	<20,0	<3,0
13	Stérile	Amphibolite	5,65	5880	2620	1240	<0,06	<30,0	<20,0	<20,0	<3,0
14	Stérile	Amphibolite	5,37	5310	2300	1720	<0,06	<30,0	<20,0	<20,0	<3,0
15	Stérile	Amphibolite	7,11	6590	3240	746	<0,06	<30,0	<20,0	<20,0	<3,0
16	Stérile	Métasédiment	5,22	5100	2070	2000	0,24	<30,0	<20,0	<20,0	<3,0
17	Stérile	Amphibolite	5,16	5070	1910	2150	<0,06	<30,0	<20,0	<20,0	<3,0
18	Stérile	Amphibolite	5,23	5110	2030	1850	<0,06	<30,0	<20,0	<20,0	<3,0
19	Stérile	Pegmatite stérile	5,28	5290	2180	1780	<0,06	<30,0	<20,0	<20,0	<3,0
20	Stérile	Amphibolite	5,1	4930	1770	2240	<0,06	<30,0	<20,0	32	<3,0
21	Stérile	Amphibolite	6,47	6260	3000	1020	<0,06	<30,0	<20,0	<20,0	<3,0
22	Stérile	Amphibolite	5,09	5090	1850	1420	0,32	<30,0	<20,0	<20,0	<3,0
23	Stérile	Métasédiment	5,04	4760	1670	2450	<0,06	<30,0	<20,0	26	<3,0
24	Stérile	Amphibolite	5,07	4790	1820	2330	<0,06	<30,0	<20,0	<20,0	<3,0
25	Stérile	Métasédiment	5,08	4680	1800	2170	<0,06	<30,0	<20,0	<20,0	<3,0
26	Stérile	Amphibolite	5,29	5330	2140	1800	<0,06	<30,0	<20,0	<20,0	<3,0
27	Stérile	Amphibolite	5,33	5380	2220	1660	<0,06	<30,0	<20,0	<20,0	<3,0
28	Stérile	Amphibolite	4,99	4830	1650	1770	4,88	<30,0	<20,0	<20,0	<3,0
29	Stérile	Amphibolite	5,26	5470	2230	1080	0,14	<30,0	<20,0	<20,0	<3,0
30	Stérile	Amphibolite	5,41	5770	2530	821	<0,06	<30,0	<20,0	<20,0	<3,0
31	Stérile	Métasédiment	5,04	4790	1650	2400	2,41	<30,0	<20,0	<20,0	<3,0
32	Stérile	Amphibolite	5,48	5690	2420	1480	<0,06	<30,0	<20,0	<20,0	<3,0
33	Stérile	Amphibolite	6,18	6130	3010	1070	<0,06	<30,0	<20,0	<20,0	<3,0
34	Stérile	Métasédiment	5,05	4710	1720	2340	4,19	<30,0	<20,0	<20,0	<3,0
35	Stérile	Métasédiment	5,11	4950	1820	2070	<0,06	<30,0	<20,0	<20,0	<3,0
36	Stérile	Ultramafique	5,35	5470	2290	1760	0,27	<30,0	<20,0	<20,0	<3,0
37	Stérile	Amphibolite	5,61	5890	2610	1530	2,4	<30,0	<20,0	<20,0	<3,0
38	Stérile	Métasédiment	4,96	4910	1640	1700	0,37	<30,0	<20,0	<20,0	<3,0
39	Stérile	Métasédiment	4,98	4950	1670	1720	1,24	<30,0	<20,0	<20,0	<3,0
40	Stérile	Métasédiment	5,02	5050	1550	1970	0,51	<30,0	<20,0	<20,0	<3,0
41	Stérile	Métasédiment	4,97	4970	1780	1640	<0,06	<30,0	<20,0	<20,0	<3,0
42	Stérile	Métasédiment	4,99	4970	1480	1790	<0,06	<30,0	<20,0	<20,0	<3,0
43	Stérile	Métasédiment	4,99	4970	1680	1660	<0,06	<30,0	<20,0	<20,0	<3,0
44	Stérile	Métasédiment	5,09	5280	1880	1380	<0,06	<30,0	<20,0	<20,0	<3,0
45	Stérile	Métasédiment	5,04	5190	4650	4620	<0,06	<30,0	<20,0	<20,0	<3,0
46	Stérile	Métasédiment	5,13	5380	1960	1340	<0,06	<30,0	<20,0	<20,0	<3,0
47	Stérile	Métasédiment	4,97	4940	1540	1680	<0,06	<30,0	<20,0	<20,0	<3,0
48	Stérile	Métasédiment	5,55	5890	2640	677	<0,06	<30,0	<20,0	<20,0	<3,0
49	Stérile	Métasédiment	4,98	5040	1620	1870	3,67	<30,0	<20,0	<20,0	<3,0
50	Stérile	Métasédiment	5,01	5060	1620	1660	0,32	<30,0	<20,0	<20,0	<3,0
51	Stérile	Métasédiment	4,96	4950	1520	1710	<0,06	<30,0	<20,0	<20,0	<3,0
52	Stérile	Métasédiment	5,11	5340	1890	1390	<0,06	<30,0	<20,0	<20,0	<3,0
53	Stérile	Métasédiment	5,1	5350	1830	1390	0,23	<30,0	<20,0	<20,0	<3,0
54	Stérile	Métasédiment	4,97	4800	1630	1750	2,51	<30,0	<20,0	<20,0	<3,0
55	Stérile	Métasédiment	5,29	5740	2270	964	0,12	<30,0	<20,0	<20,0	<3,0
56	Stérile	Amphibolite	5,7	6600	2910	283	<0,06	<30,0	<20,0	<20,0	<3,0
57	Stérile	Métasédiment	5,76	6440	2800	552	<0,06	<30,0	<20,0	<20,0	<3,0
58	Stérile	Ultramafique	5,58	6200	2640	703	<0,06	<30,0	<20,0	<20,0	<3,0
59	Stérile	Ultramafique	5,03	5120	1690	1580	<0,06	<30,0	<20,0	<20,0	<3,0
60	Stérile	Ultramafique	5,56	6190	2570	654	0,12	<30,0	<20,0	<20,0	<3,0
61	Stérile	Ultramafique	5,77	6450	2820	529	<0,06	<30,0	<20,0	<20,0	<3,0
62	Stérile	Ultramafique	6,56	6790	3160	176	0,16	<30,0	<20,0	<20,0	<3,0
63	Stérile	Pegmatite stérile	4,97	5000	1520	1720	<0,06	<30,0	<20,0	<20,0	<3,0
64	Stérile	Pegmatite stérile	4,95	4910	1540	1850	0,25	<30,0	<20,0	<20,0	<3,0
65	Stérile	Pegmatite stérile	4,94	4920	1520	1710	0,1	<30,0	<20,0	<20,0	<3,0
66	Stérile	Pegmatite stérile	4,94	4900	1480	1780	0,08	<30,0	<20,0	<20,0	<3,0
67	Stérile	Pegmatite stérile	4,94	4880	1450	1870	<0,06	<30,0	<20,0	<20,0	<3,0
68	Stérile	Pegmatite stérile	4,94	4720	1540	1760	0,33	<30,0	<20,0	<20,0	<3,0
69	Stérile	Pegmatite stérile	4,98	5000	1620	1680	0,18	<30,0	<20,0	<20,0	<3,0
70	Stérile	Pegmatite stérile	4,97	4870	1570	1760	0,18	<30,0	<20,0	<20,0	<3,0
71	Stérile	Pegmatite stérile	4,94	4640	1480	1780	0,11	<30,0	<20,0	<20,0	<3,0
72	Stérile	Pegmatite stérile	4,96	4720	1620	1790	0,73	<30,0	<20,0	<20,0	<3,0
73	Minerai	Pegmatite stérile	4,94	4900	1470	1760	0,13	<30,0	<20,0	<20,0	<3,0
74	Minerai	Pegmatite spodumène	4,94	4870	1460	1790	0,21	<30,0	<20,0	<20,0	<3,0
75	Minerai	Pegmatite spodumène	4,95	4950	1490	1800	0,07	<30,0	<20,0	<20,0	<3,0

Essais TCLP

# échantillon	Type de matériel	Lithologie	Nitrate	Nitrate + Nitrite	Phosphore réactif total	Mercure	Argent	Aluminum	Arsenic	Bore
		Unité	mgN/l	mgN/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés		1000		0,1			5	500
1	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,46	<0,002	<0,02
2	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,1	0,015	0,02
3	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	<0,002	<0,02
4	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,84	0,011	<0,02
5	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,31	0,173	<0,02
6	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
7	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,07	0,002	<0,02
8	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,12	<0,002	<0,02
9	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,99	<0,002	<0,02
10	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,9	0,008	<0,02
11	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	0,008	<0,02
12	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
13	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,15	0,013	0,02
14	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,37	0,007	<0,02
15	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	0,013	<0,02
16	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,82	0,002	<0,02
17	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,56	0,008	<0,02
18	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,72	0,015	<0,02
19	Stérile	Pegmatite stérile	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,51	<0,002	<0,02
20	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,7	<0,002	<0,02
21	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	0,129	<0,02
22	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,17	0,053	<0,02
23	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,77	0,002	<0,02
24	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,91	0,003	<0,02
25	Stérile	Métasédiment	<6,0	<6,0	0,04	<0,00001	<0,0005	0,62	0,179	0,07
26	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,64	<0,002	0,02
27	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,4	0,005	<0,02
28	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,05	0,04	0,04
29	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,53	0,049	<0,02
30	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,3	0,002	<0,02
31	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	2,93	0,047	0,03
32	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,21	0,003	<0,02
33	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	<0,01	<0,002	<0,02
34	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,24	0,04	0,03
35	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,83	0,008	<0,02
36	Stérile	Ultramafique	<6,0	<6,0	0,09	<0,00001	<0,0005	0,19	5,80	0,06
37	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,77	0,995	0,13
38	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,21	0,005	<0,02
39	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	2,18	0,023	<0,02
40	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,72	0,007	<0,02
41	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,19	0,003	<0,02
42	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,15	0,003	<0,02
43	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,38	0,002	0,03
44	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,8	0,007	<0,02
45	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,81	0,004	<0,02
46	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,75	0,004	<0,02
47	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,93	0,002	<0,02
48	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,24	0,009	<0,02
49	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	4,39	0,029	0,02
50	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,52	0,075	<0,02
51	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,01	0,009	<0,02
52	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,99	0,004	<0,02
53	Stérile	Métasédiment	<6,0	<6,0	0,06	<0,00001	<0,0005	0,69	0,611	<0,02
54	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	3,18	0,04	0,02
55	Stérile	Métasédiment	<6,0	<6,0	0,06	<0,00001	<0,0005	0,25	1,72	<0,02
56	Stérile	Amphibolite	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,03	0,02	<0,02
57	Stérile	Métasédiment	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,04	0,004	<0,02
58	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,09	1,02	0,04
59	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	1,01	0,074	<0,02
60	Stérile	Ultramafique	<6,0	<6,0	0,04	<0,00001	<0,0005	0,09	7,58	<0,02
61	Stérile	Ultramafique	<6,0	<6,0	<0,03	<0,00001	<0,0005	0,05	1,76	0,06
62	Stérile	Ultramafique	<6,0	<6,0	0,05	<0,00001	<0,0005	<0,01	4,43	<0,02
63	Stérile	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,69	0,068	0,02
64	Stérile	Pegmatite stérile	<6,0	<6,0	0,24	<0,00001	<0,0005	0,81	0,091	<0,02
65	Stérile	Pegmatite stérile	<6,0	<6,0	0,46	<0,00001	<0,0005	0,44	0,045	<0,02
66	Stérile	Pegmatite stérile	<6,0	<6,0	0,13	<0,00001	<0,0005	0,57	0,063	<0,02
67	Stérile	Pegmatite stérile	<6,0	<6,0	0,08	<0,00001	<0,0005	0,46	0,013	<0,02
68	Stérile	Pegmatite stérile	<6,0	<6,0	0,44	<0,00001	<0,0005	0,48	0,091	<0,02
69	Stérile	Pegmatite stérile	<6,0	<6,0	0,14	<0,00001	<0,0005	0,53	0,036	<0,02
70	Stérile	Pegmatite stérile	<6,0	<6,0	0,13	<0,00001	<0,0005	0,48	0,029	<0,02
71	Stérile	Pegmatite stérile	<6,0	<6,0	0,22	<0,00001	<0,0005	0,55	0,11	<0,02
72	Stérile	Pegmatite stérile	<6,0	<6,0	0,03	<0,00001	<0,0005	1,39	0,034	0,09
73	Minerai	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,66	0,031	<0,02
74	Minerai	Pegmatite spodumène	<6,0	<6,0	0,62	<0,00001	<0,0005	0,59	0,167	<0,02
75	Minerai	Pegmatite spodumène	<6,0	<6,0	0,08	<0,00001	<0,0005	0,56	0,069	<0,02

Essais TCLP

# échantillon	Type de matériel	Lithologie	Barium
		Unité	mg/l
		D019 – Critère risques élevés	100
1	Stérile	Amphibolite	0,261
2	Stérile	Amphibolite	0,0868
3	Stérile	Amphibolite	0,333
4	Stérile	Amphibolite	0,0273
5	Stérile	Amphibolite	0,0435
6	Stérile	Amphibolite	0,0201
7	Stérile	Amphibolite	0,0172
8	Stérile	Amphibolite	0,0124
9	Stérile	Amphibolite	0,00645
10	Stérile	Amphibolite	0,0477
11	Stérile	Amphibolite	0,0251
12	Stérile	Amphibolite	0,0164
13	Stérile	Amphibolite	0,0227
14	Stérile	Amphibolite	0,0129
15	Stérile	Amphibolite	0,0232
16	Stérile	Métasédiment	0,256
17	Stérile	Amphibolite	0,275
18	Stérile	Amphibolite	0,0436
19	Stérile	Pegmatite stérile	0,0168
20	Stérile	Amphibolite	0,744
21	Stérile	Amphibolite	0,455
22	Stérile	Amphibolite	0,0165
23	Stérile	Métasédiment	0,132
24	Stérile	Amphibolite	0,673
25	Stérile	Métasédiment	0,195
26	Stérile	Amphibolite	0,0704
27	Stérile	Amphibolite	0,0238
28	Stérile	Amphibolite	0,0607
29	Stérile	Amphibolite	0,102
30	Stérile	Amphibolite	0,0906
31	Stérile	Métasédiment	0,118
32	Stérile	Amphibolite	0,16
33	Stérile	Amphibolite	0,293
34	Stérile	Métasédiment	0,117
35	Stérile	Métasédiment	0,26
36	Stérile	Ultramafique	0,0543
37	Stérile	Amphibolite	0,0345
38	Stérile	Métasédiment	0,0305
39	Stérile	Métasédiment	0,0547
40	Stérile	Métasédiment	0,0769
41	Stérile	Métasédiment	0,0595
42	Stérile	Métasédiment	0,0845
43	Stérile	Métasédiment	0,217
44	Stérile	Métasédiment	0,19
45	Stérile	Métasédiment	0,288
46	Stérile	Métasédiment	0,483
47	Stérile	Métasédiment	0,313
48	Stérile	Métasédiment	0,0119
49	Stérile	Métasédiment	0,117
50	Stérile	Métasédiment	0,0822
51	Stérile	Métasédiment	0,0577
52	Stérile	Métasédiment	0,16
53	Stérile	Métasédiment	0,5
54	Stérile	Métasédiment	0,0731
55	Stérile	Métasédiment	0,291
56	Stérile	Amphibolite	0,263
57	Stérile	Métasédiment	0,178
58	Stérile	Ultramafique	0,0653
59	Stérile	Ultramafique	0,0179
60	Stérile	Ultramafique	0,022
61	Stérile	Ultramafique	0,00888
62	Stérile	Ultramafique	0,0332
63	Stérile	Pegmatite stérile	0,006
64	Stérile	Pegmatite stérile	0,00557
65	Stérile	Pegmatite stérile	0,00551
66	Stérile	Pegmatite stérile	0,00386
67	Stérile	Pegmatite stérile	0,00394
68	Stérile	Pegmatite stérile	0,0035
69	Stérile	Pegmatite stérile	0,0159
70	Stérile	Pegmatite stérile	0,00546
71	Stérile	Pegmatite stérile	0,00623
72	Stérile	Pegmatite stérile	0,00577
73	Minerai	Pegmatite stérile	0,0117
74	Minerai	Pegmatite spodumène	0,00173
75	Minerai	Pegmatite spodumène	0,00182

Essais TCLP

# échantillon	Type de matériel	Lithologie	Beryllium	Bismuth	Calcium	Cadmium	Cobalt	Chrome	Cuivre	Fer	Potassium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés				0,5		5			
1	Stérile	Amphibolite	<0,00007	0,00002	235	0,00029	0,00457	0,0085	<0,002	5,89	15,2
2	Stérile	Amphibolite	0,00051	0,00001	75,9	0,00015	0,015	0,0148	<0,002	6,79	6,45
3	Stérile	Amphibolite	<0,00007	<0,00001	464	0,00033	0,00442	<0,0008	<0,002	11,2	11,8
4	Stérile	Amphibolite	0,00016	0,00002	12,5	<0,00003	0,00689	0,0109	0,005	1,85	2,78
5	Stérile	Amphibolite	0,00054	0,00002	110	0,00015	0,0276	0,0141	0,007	2,43	3,27
6	Stérile	Amphibolite	<0,00007	0,00001	690	0,00039	0,00379	<0,0008	<0,002	0,15	1,15
7	Stérile	Amphibolite	<0,00007	0,00002	451	0,00011	0,0132	<0,0008	0,012	1,66	2,04
8	Stérile	Amphibolite	<0,00007	<0,00001	55,5	0,0001	0,0171	0,0067	0,046	2,34	1,19
9	Stérile	Amphibolite	<0,00007	0,00001	61,6	<0,00003	0,00295	0,0068	0,013	2,23	0,89
10	Stérile	Amphibolite	0,00007	<0,00001	46,3	<0,00003	0,00793	0,0031	0,012	3,85	1,75
11	Stérile	Amphibolite	0,00026	<0,00001	500	0,00014	0,00496	0,0008	<0,002	3,31	1,74
12	Stérile	Amphibolite	<0,00007	<0,00001	661	0,00027	0,00318	<0,0008	<0,002	0,55	1,68
13	Stérile	Amphibolite	0,00139	0,00002	432	0,00022	0,00962	0,0011	<0,002	2,03	2,22
14	Stérile	Amphibolite	0,00024	0,00003	309	0,00015	0,0105	0,0044	0,007	3,32	1,03
15	Stérile	Amphibolite	<0,00007	0,00001	668	0,00031	0,00396	<0,0008	<0,002	0,23	2
16	Stérile	Métasédiment	0,00021	0,00007	191	0,0019	0,0122	0,0061	<0,002	14,3	13,1
17	Stérile	Amphibolite	<0,00007	0,00002	145	0,00042	0,0165	0,004	<0,002	29,5	21,7
18	Stérile	Amphibolite	0,00115	<0,00001	209	0,00033	0,0195	0,0057	0,021	1,99	3,28
19	Stérile	Pegmatite stérile	<0,00007	<0,00001	255	0,00025	0,00455	0,0063	0,005	1,74	0,93
20	Stérile	Amphibolite	<0,00007	0,00002	76,6	0,00008	0,0247	0,0088	<0,002	52,9	25,6
21	Stérile	Amphibolite	<0,00007	0,00002	571	0,00023	0,00487	<0,0008	<0,002	5,9	13,3
22	Stérile	Amphibolite	0,00138	<0,00001	94,5	0,00015	0,02442	0,0268	0,003	2,22	1,71
23	Stérile	Métasédiment	0,00045	0,00002	37,6	0,00025	0,04246	0,0081	<0,002	32,1	8,78
24	Stérile	Amphibolite	<0,00007	<0,00001	80,4	0,00017	0,00273	0,0059	<0,002	4,79	14,7
25	Stérile	Métasédiment	0,00009	0,00004	82,4	<0,00003	0,00863	0,0459	<0,002	2,26	8,12
26	Stérile	Amphibolite	0,00007	<0,00001	256	0,00009	0,00373	0,0072	<0,002	3,52	2,01
27	Stérile	Amphibolite	0,00023	0,00002	289	0,00008	0,02698	0,0066	0,012	3,46	2,08
28	Stérile	Amphibolite	0,00513	0,00006	47,3	0,00048	0,0239	0,0097	0,004	2,83	3,23
29	Stérile	Amphibolite	0,00252	<0,00001	244	0,00032	0,0199	0,005	<0,002	3,25	6,74
30	Stérile	Amphibolite	0,00015	0,00003	367	0,00061	0,0036	0,0019	0,009	4,68	3,44
31	Stérile	Métasédiment	0,00106	<0,00001	47,6	0,00012	0,00872	0,0154	<0,002	5,97	10,6
32	Stérile	Amphibolite	<0,00007	0,00002	365	0,00023	0,00395	0,0012	0,004	9,14	6,9
33	Stérile	Amphibolite	<0,00007	0,00002	565	0,00022	0,00468	<0,0008	<0,002	7,43	12,5
34	Stérile	Métasédiment	0,00135	0,00002	47,8	0,00024	0,0111	0,0061	<0,002	8,05	10,1
35	Stérile	Métasédiment	0,00009	<0,00001	109	0,00031	0,00508	0,0071	<0,002	5,39	16,3
36	Stérile	Ultramafique	0,00287	0,00002	210	0,0004	0,0483	0,0422	<0,002	7,02	2,71
37	Stérile	Amphibolite	0,00567	0,00003	429	0,00101	0,03	0,0019	0,016	1,68	4,38
38	Stérile	Métasédiment	0,00751	0,0001	14	0,00078	0,00843	0,0055	0,044	1,84	3,59
39	Stérile	Métasédiment	0,002	0,00006	33,4	0,00061	0,0173	0,0122	<0,002	2,13	4,17
40	Stérile	Métasédiment	0,00058	0,00002	69,3	0,00048	0,012	0,0139	<0,002	4,35	4,36
41	Stérile	Métasédiment	0,00063	0,00005	30,2	0,00043	0,00735	0,0139	<0,002	2,29	5,33
42	Stérile	Métasédiment	0,00034	0,00003	45,5	0,00059	0,00979	0,0084	<0,002	3,31	7,49
43	Stérile	Métasédiment	0,00031	0,00005	43,9	0,00034	0,0119	0,0832	<0,002	5,5	13
44	Stérile	Métasédiment	0,00033	0,00004	139	0,0004	0,00455	0,0131	<0,002	2,21	7,99
45	Stérile	Métasédiment	0,00016	0,00006	100	0,00044	0,00268	0,0142	<0,002	3,06	13,2
46	Stérile	Métasédiment	0,00014	0,00004	170	0,00046	0,00309	0,0146	<0,002	5,3	19,3
47	Stérile	Métasédiment	0,00019	0,00003	18,3	0,00063	0,0175	0,0274	<0,002	5,5	12,8
48	Stérile	Métasédiment	0,00129	0,00002	416	0,00063	0,0138	0,0015	<0,002	1,57	1,24
49	Stérile	Métasédiment	0,00148	0,00005	29,4	0,00054	0,0111	0,0096	<0,002	6,25	12
50	Stérile	Métasédiment	0,00125	0,00025	59,4	0,00108	0,0813	0,0065	0,026	2,46	7,19
51	Stérile	Métasédiment	0,00116	0,00006	20,1	0,00036	0,017	0,0073	0,003	1,74	3,97
52	Stérile	Métasédiment	0,0002	0,00002	161	0,00065	0,00617	0,013	<0,002	4,52	9,07
53	Stérile	Métasédiment	0,00008	0,00004	141	0,00076	0,00443	0,0054	<0,002	4,77	19,6
54	Stérile	Métasédiment	0,00143	0,00013	39,4	0,00054	0,0162	0,0111	<0,002	3,25	5,84
55	Stérile	Métasédiment	0,0001	0,00007	295	0,00051	0,0101	0,0388	<0,002	2,35	5,14
56	Stérile	Amphibolite	0,00009	0,00007	519	0,00053	0,00328	0,0015	<0,002	3,45	10,9
57	Stérile	Métasédiment	0,00011	0,00004	481	0,00067	0,00346	0,0023	<0,002	3,39	6,03
58	Stérile	Ultramafique	0,00071	0,00019	389	0,00044	0,0282	0,0087	<0,002	1,81	3,69
59	Stérile	Ultramafique	0,00021	0,00004	58,9	0,00031	0,0392	0,122	0,026	2,72	1,52
60	Stérile	Ultramafique	0,00173	0,00005	279	0,00047	0,0534	0,0211	<0,002	7,31	3,39
61	Stérile	Ultramafique	0,00051	0,00007	416	0,00048	0,0114	0,0057	<0,002	2,73	0,93
62	Stérile	Ultramafique	0,00085	0,00006	549	0,00042	0,0463	0,0014	<0,002	<0,07	1,46
63	Stérile	Pegmatite stérile	0,00706	0,04465	33,5	0,0009	0,00309	0,0083	0,009	0,11	4,65
64	Stérile	Pegmatite stérile	0,00282	0,00014	12,5	0,0004	0,00225	0,0036	0,003	0,31	6,53
65	Stérile	Pegmatite stérile	0,00169	0,00596	6,9	0,00041	0,00107	0,0045	0,003	0,13	4,16
66	Stérile	Pegmatite stérile	0,00157	0,00263	5,5	0,00033	0,0035	0,0054	0,003	0,07	4,13
67	Stérile	Pegmatite stérile	0,00096	0,00655	3	0,00035	0,00087	0,0061	0,003	<0,07	3,88
68	Stérile	Pegmatite stérile	0,0018	0,0206	11,6	0,00047	0,00042	0,0033	<0,002	0,07	3,92
69	Stérile	Pegmatite stérile	0,01325	0,02216	43,2	0,00058	0,00284	0,0048	0,014	0,12	2,3
70	Stérile	Pegmatite stérile	0,00807	0,00337	30,1	0,00415	0,0126	0,0048	1,84	0,21	1,88
71	Stérile	Pegmatite stérile	0,00458	0,00029	8	0,00047	0,00147	0,0044	0,002	0,16	3,1
72	Stérile	Pegmatite stérile	0,00947	0,0121	34,1	0,00049	0,00422	0,0058	0,003	0,75	2,56
73	Minerai	Pegmatite stérile	0,0022	0,00836	5,2	0,00037	0,00233	0,005	0,006	0,09	4,24
74	Minerai	Pegmatite spodumène	0,00153	0,00114	4,2	0,00041	0,00079	0,0036	<0,002	0,14	2,91
75	Minerai	Pegmatite spodumène	0,00536	0,321	15,4	0,00044	0,00073	0,0036	<0,002	<0,07	2,05

Essais TCLP

# échantillon	Type de matériel	Lithologie	Lithium	Magnésium	Manganèse	Molybdène	Sodium	Nickel	Phosphore	Argent	Antimoine
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés								5	
1	Stérile	Amphibolite	0,092	2,73	2,54	0,0004	1360	0,02	<0,003	0,00092	<0,009
2	Stérile	Amphibolite	0,098	3,48	0,591	<0,0004	1400	0,054	<0,003	0,00955	<0,009
3	Stérile	Amphibolite	0,095	4,01	5,91	0,0009	1440	0,004	0,037	0,0001	<0,009
4	Stérile	Amphibolite	0,061	3,16	0,166	<0,0004	1450	0,009	<0,003	0,00028	<0,009
5	Stérile	Amphibolite	0,165	3,7	0,739	<0,0004	1300	0,312	0,006	0,00076	0,054
6	Stérile	Amphibolite	0,018	4,08	6,86	0,0011	1420	0,009	<0,003	<0,00009	<0,009
7	Stérile	Amphibolite	0,025	3,81	2,79	0,0006	1270	0,028	<0,003	0,00021	<0,009
8	Stérile	Amphibolite	0,027	2,24	0,288	<0,0004	1260	0,032	<0,003	0,00013	<0,009
9	Stérile	Amphibolite	0,004	1,82	0,214	<0,0004	1290	0,009	<0,003	0,00018	<0,009
10	Stérile	Amphibolite	0,033	2,46	0,264	0,0014	1290	0,009	<0,003	0,0003	<0,009
11	Stérile	Amphibolite	0,043	2,69	2,83	<0,0004	1460	0,026	<0,003	0,00022	0,02
12	Stérile	Amphibolite	0,008	2,73	4	<0,0004	1430	0,012	<0,003	<0,00009	<0,009
13	Stérile	Amphibolite	0,07	5,18	3,03	<0,0004	1430	0,021	<0,003	0,00013	<0,009
14	Stérile	Amphibolite	0,025	2,89	1,92	<0,0004	1300	0,019	<0,003	0,00101	<0,009
15	Stérile	Amphibolite	0,019	3,61	4,16	0,0013	1240	0,015	<0,003	0,00012	<0,009
16	Stérile	Métasédiment	0,124	1,91	2,37	<0,0004	1290	0,11	<0,003	0,96	<0,009
17	Stérile	Amphibolite	0,129	1,57	1,92	0,0017	1290	0,201	<0,003	0,0772	0,022
18	Stérile	Amphibolite	0,058	3,27	0,893	0,0005	1390	0,049	<0,003	0,00172	0,013
19	Stérile	Pegmatite stérile	0,011	1,65	1,95	0,0006	1400	0,02	<0,003	0,00012	<0,009
20	Stérile	Amphibolite	0,176	1,63	0,466	<0,0004	1410	0,058	<0,003	0,00105	<0,009
21	Stérile	Amphibolite	0,037	5,95	6,73	<0,0004	1280	0,145	<0,003	<0,00009	<0,009
22	Stérile	Amphibolite	0,099	5,59	0,377	<0,0004	1270	0,066	<0,003	0,00634	<0,009
23	Stérile	Métasédiment	0,085	3,69	0,61	<0,0004	1290	0,127	<0,003	0,00448	<0,009
24	Stérile	Amphibolite	0,038	1,66	0,817	0,001	1300	0,004	<0,003	0,00179	<0,009
25	Stérile	Métasédiment	0,053	3,2	0,23	0,0032	1280	0,244	<0,003	0,00122	<0,009
26	Stérile	Amphibolite	0,052	2,9	1,13	<0,0004	1410	0,013	<0,003	0,00031	<0,009
27	Stérile	Amphibolite	0,021	3,09	1,48	<0,0004	1290	0,054	<0,003	0,00147	<0,009
28	Stérile	Amphibolite	0,103	4,54	0,476	0,0007	1250	0,053	0,07	0,00151	0,014
29	Stérile	Amphibolite	0,182	5,97	1,87	<0,0004	1510	0,087	0,006	0,0139	0,052
30	Stérile	Amphibolite	0,046	3,02	3,28	0,0005	1280	0,005	0,04	0,00055	<0,009
31	Stérile	Métasédiment	0,231	2,21	0,568	0,0041	1270	0,016	<0,003	0,00105	0,01
32	Stérile	Amphibolite	0,035	3,57	3,4	0,0005	1310	0,003	<0,003	0,00011	<0,009
33	Stérile	Amphibolite	0,101	5,01	6,17	0,0014	1340	0,003	<0,003	0,00022	<0,009
34	Stérile	Métasédiment	0,306	2,08	0,62	0,0023	1310	0,022	<0,003	0,00876	0,016
35	Stérile	Métasédiment	0,181	2,09	1,28	0,0012	1280	0,01	<0,003	0,00194	<0,009
36	Stérile	Ultramafique	0,038	49,2	2,07	0,0012	1280	6,62	<0,003	0,00096	1,1
37	Stérile	Amphibolite	0,122	2,51	3,95	0,0025	1420	0,23	<0,003	0,00054	0,205
38	Stérile	Métasédiment	0,135	2,91	0,287	0,0006	1380	0,007	0,01	0,00454	<0,009
39	Stérile	Métasédiment	0,111	3,54	0,414	0,0006	1310	0,07	0,05	0,141	0,02
40	Stérile	Métasédiment	0,123	1,47	0,637	0,0015	1290	0,02	0,06	0,00111	0,011
41	Stérile	Métasédiment	0,064	3,42	0,476	0,0018	1310	0,012	0,07	0,00773	<0,009
42	Stérile	Métasédiment	0,07	2,62	0,914	0,0006	1330	0,021	0,05	0,0364	<0,009
43	Stérile	Métasédiment	0,103	2,3	0,428	0,0009	1270	0,026	0,06	0,00132	<0,009
44	Stérile	Métasédiment	0,1	0,64	1,16	0,0029	1280	0,005	0,08	0,00486	<0,009
45	Stérile	Métasédiment	0,007	0,63	1,31	0,0032	1330	0,005	0,08	0,00402	<0,009
46	Stérile	Métasédiment	0,013	1	2,51	0,0035	1280	0,005	0,06	0,00151	<0,009
47	Stérile	Métasédiment	0,029	1,98	0,345	0,004	1280	0,039	0,06	0,00802	<0,009
48	Stérile	Métasédiment	0,152	7,36	1,85	0,0005	1250	0,01	0,05	0,00048	<0,009
49	Stérile	Métasédiment	0,446	4,34	0,479	0,0017	1290	0,017	0,07	0,00082	<0,009
50	Stérile	Métasédiment	0,15	2,07	0,328	0,0007	1290	0,168	0,05	0,0242	0,091
51	Stérile	Métasédiment	0,072	2,08	0,47	0,0011	1310	0,02	0,04	0,0102	<0,009
52	Stérile	Métasédiment	0,096	2,46	2,65	0,0039	1320	0,015	0,06	0,00804	<0,009
53	Stérile	Métasédiment	0,086	1,59	2,7	0,0025	1300	0,005	0,06	0,00221	<0,009
54	Stérile	Métasédiment	0,144	2,04	0,408	0,001	1280	0,051	0,05	0,00525	0,012
55	Stérile	Métasédiment	0,045	5,27	2,42	0,0014	1330	1,72	0,07	0,00238	0,015
56	Stérile	Amphibolite	0,055	3,76	6,57	0,0005	1270	0,025	0,04	0,00101	<0,009
57	Stérile	Métasédiment	0,046	3,03	4,06	0,0012	1290	0,01	0,05	0,00217	<0,009
58	Stérile	Ultramafique	0,036	40,4	2,72	0,0006	1300	2,46	0,04	0,00124	0,267
59	Stérile	Ultramafique	0,049	17,2	0,698	<0,0004	1320	0,293	0,03	0,00202	<0,009
60	Stérile	Ultramafique	0,057	95,7	2,69	0,0005	1340	9,97	0,05	0,00052	2,27
61	Stérile	Ultramafique	0,022	33	3,06	0,0007	1290	2,65	0,03	0,00037	0,25
62	Stérile	Ultramafique	0,012	20,9	4,64	0,0014	1270	7,15	0,05	0,00015	4,06
63	Stérile	Pegmatite stérile	0,017	0,28	0,27	0,0032	1310	0,003	0,11	0,00533	0,011
64	Stérile	Pegmatite stérile	0,126	0,29	0,559	0,0013	1280	0,003	0,24	0,00368	0,015
65	Stérile	Pegmatite stérile	0,078	0,11	0,532	0,001	1280	0,003	0,45	0,00331	<0,009
66	Stérile	Pegmatite stérile	0,022	0,13	0,0754	0,0018	1280	0,003	0,13	0,00146	<0,009
67	Stérile	Pegmatite stérile	0,007	0,11	0,0359	0,0019	1270	0,003	0,11	0,00214	<0,009
68	Stérile	Pegmatite stérile	0,151	0,11	0,828	0,0022	1310	0,003	0,48	0,00349	0,016
69	Stérile	Pegmatite stérile	0,051	0,39	0,245	0,0013	1310	0,005	0,15	0,00439	<0,009
70	Stérile	Pegmatite stérile	0,026	0,4	0,202	0,0021	1280	0,006	0,15	0,00756	0,009
71	Stérile	Pegmatite stérile	0,037	0,42	0,157	0,0024	1270	0,003	0,24	0,00139	0,015
72	Stérile	Pegmatite stérile	0,032	0,6	0,179	0,0012	1250	0,005	0,07	0,0231	0,01
73	Minerai	Pegmatite stérile	0,116	0,05	0,24	0,0016	1260	0,004	0,08	0,00323	0,009
74	Minerai	Pegmatite spodumène	0,318	0,06	1,15	0,0012	1290	0,003	0,54	0,00083	0,029
75	Minerai	Pegmatite spodumène	0,141	0,13	0,544	0,0036	1300	0,001	0,11	0,00302	0,023

Essais TCLP

# échantillon	Type de matériel	Lithologie	Sélénium	Etain	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés	1					2		
1	Stérile	Amphibolite	<0,0004	<0,00006	0,0956	0,0017	0,00007	0,000054	0,0015	0,03
2	Stérile	Amphibolite	0,0017	<0,00006	0,0815	0,0006	0,00033	0,00116	0,00034	0,04
3	Stérile	Amphibolite	0,0013	<0,00006	0,17	<0,0005	0,00013	0,000084	0,00033	0,03
4	Stérile	Amphibolite	0,0011	<0,00006	0,0161	0,001	0,00012	0,00157	0,00119	0,02
5	Stérile	Amphibolite	<0,0004	<0,00006	0,082	<0,0005	0,00065	0,000167	0,00055	0,03
6	Stérile	Amphibolite	0,001	<0,00006	0,231	<0,0005	<0,00005	0,000166	0,00011	<0,02
7	Stérile	Amphibolite	<0,0004	0,00008	0,132	<0,0005	<0,00005	0,00081	0,00008	<0,02
8	Stérile	Amphibolite	<0,0004	<0,00006	0,0337	0,0006	<0,00005	0,00006	0,00088	0,03
9	Stérile	Amphibolite	0,0007	<0,00006	0,021	0,0007	<0,00005	0,00004	0,0015	<0,02
10	Stérile	Amphibolite	0,0018	<0,00006	0,0294	<0,0005	<0,00005	0,000348	0,00057	0,02
11	Stérile	Amphibolite	0,0007	<0,00006	0,15	<0,0005	0,00006	0,000051	0,00035	<0,02
12	Stérile	Amphibolite	0,0005	0,00007	0,171	<0,0005	<0,00005	0,000091	0,00006	0,02
13	Stérile	Amphibolite	0,001	<0,00006	0,193	<0,0005	0,00006	0,000101	0,00028	<0,02
14	Stérile	Amphibolite	0,0025	0,00016	0,0906	0,0007	<0,00005	0,0001	0,00045	0,02
15	Stérile	Amphibolite	0,0011	0,00008	0,18	<0,0005	<0,00005	0,000082	0,00011	<0,02
16	Stérile	Métasédiment	0,0016	<0,00006	0,0793	<0,0005	0,00077	0,000495	0,0001	1,26
17	Stérile	Amphibolite	0,0011	<0,00006	0,0886	<0,0005	0,00023	0,000118	0,00004	0,22
18	Stérile	Amphibolite	0,0006	<0,00006	0,0792	<0,0005	0,00022	0,00101	0,00047	0,03
19	Stérile	Pegmatite stérile	<0,0004	0,00009	0,104	<0,0005	<0,00005	0,000094	0,00082	0,03
20	Stérile	Amphibolite	<0,0004	<0,00006	0,0451	<0,0005	<0,00005	0,000338	<0,00001	0,03
21	Stérile	Amphibolite	0,0017	0,00015	0,259	<0,0005	0,00012	0,000066	0,00001	0,02
22	Stérile	Amphibolite	0,001	0,00007	0,074	<0,0005	0,00011	0,00171	0,00039	0,03
23	Stérile	Métasédiment	0,0014	<0,00006	0,0529	<0,0005	0,0002	0,00563	0,00004	0,06
24	Stérile	Amphibolite	0,0018	<0,00006	0,0776	0,0009	0,00007	0,00148	0,00191	0,03
25	Stérile	Métasédiment	0,0015	<0,00006	0,054	<0,0005	0,00017	0,0031	0,00086	0,02
26	Stérile	Amphibolite	<0,0004	0,00008	0,0673	<0,0005	<0,00005	0,00002	0,00063	<0,02
27	Stérile	Amphibolite	<0,0004	0,00014	0,113	<0,0005	<0,00005	0,00236	0,0004	0,03
28	Stérile	Amphibolite	0,0064	0,00041	0,0571	0,0059	0,00091	0,01096	0,00063	<0,02
29	Stérile	Amphibolite	0,0008	<0,00006	0,2	0,0006	0,00035	0,000969	0,00018	0,03
30	Stérile	Amphibolite	0,0056	0,00009	0,165	0,0052	0,00014	0,000219	0,00008	0,02
31	Stérile	Métasédiment	0,0018	<0,00006	0,144	0,0015	0,00088	0,00481	0,00362	0,03
32	Stérile	Amphibolite	0,0008	<0,00006	0,146	<0,0005	0,00008	0,000096	0,00046	0,02
33	Stérile	Amphibolite	0,0027	0,00018	0,176	<0,0005	0,00018	0,000041	0,00004	0,02
34	Stérile	Métasédiment	0,0028	<0,00006	0,0532	0,0017	0,00207	0,00429	0,00202	0,04
35	Stérile	Métasédiment	0,0023	<0,00006	0,0491	0,0016	0,00009	0,0028	0,00178	0,03
36	Stérile	Ultramafique	0,0009	0,00007	0,113	<0,0005	0,00053	0,000651	0,00059	0,02
37	Stérile	Amphibolite	0,0004	<0,00006	0,256	<0,0005	0,0019	0,00387	0,00032	0,03
38	Stérile	Métasédiment	0,0004	0,00011	0,0744	<0,0005	0,00038	0,006076	0,00011	<0,02
39	Stérile	Métasédiment	0,0045	0,00011	0,0556	0,0049	0,0004	0,00514	0,00054	0,06
40	Stérile	Métasédiment	0,0062	0,00013	0,0635	0,0055	0,0002	0,00375	0,00093	<0,02
41	Stérile	Métasédiment	0,0057	0,00013	0,0796	0,0056	0,00007	0,00194	0,00041	<0,02
42	Stérile	Métasédiment	0,0051	<0,00006	0,0689	0,0047	0,00011	0,00215	0,00012	0,05
43	Stérile	Métasédiment	0,0037	0,00031	0,0776	0,005	0,0002	0,00175	0,00016	0,02
44	Stérile	Métasédiment	0,0046	0,00008	0,107	0,0078	0,00017	0,00558	0,00261	<0,02
45	Stérile	Métasédiment	0,0052	0,00049	0,0962	0,0055	0,00017	0,00338	0,00408	<0,02
46	Stérile	Métasédiment	0,005	0,00017	0,139	0,0065	0,0002	0,00378	0,00393	<0,02
47	Stérile	Métasédiment	0,0046	0,00009	0,0174	0,0061	0,00011	0,00382	0,00095	0,03
48	Stérile	Métasédiment	0,0064	0,00048	0,232	0,0061	0,00017	0,00193	0,00031	<0,02
49	Stérile	Métasédiment	0,0049	0,00018	0,0629	0,0073	0,0043	0,00555	0,00147	<0,02
50	Stérile	Métasédiment	0,0036	0,00014	0,0399	0,0046	0,00085	0,0159	0,00032	0,29
51	Stérile	Métasédiment	0,003	0,00022	0,0445	0,0042	0,0001	0,00298	0,00062	<0,02
52	Stérile	Métasédiment	0,0048	0,00014	0,0999	0,0058	0,00024	0,00375	0,00056	0,02
53	Stérile	Métasédiment	0,0031	<0,00006	0,0817	0,0037	0,00019	0,00127	0,00252	<0,02
54	Stérile	Métasédiment	0,0056	0,0001	0,0476	0,0052	0,00036	0,00856	0,00064	0,02
55	Stérile	Métasédiment	0,0047	<0,00006	0,103	0,0047	0,00012	0,00209	0,00081	<0,02
56	Stérile	Amphibolite	0,0042	0,00011	0,192	0,0038	0,00019	0,000695	0,00003	<0,02
57	Stérile	Métasédiment	0,0044	0,00013	0,25	0,0038	0,00061	0,00187	0,00024	<0,02
58	Stérile	Ultramafique	0,0029	0,00011	0,243	0,0041	0,00058	0,00107	0,00034	<0,02
59	Stérile	Ultramafique	0,0038	0,00022	0,157	0,0038	0,00053	0,00021	0,00012	<0,02
60	Stérile	Ultramafique	0,0045	0,0002	0,134	0,0036	0,00179	0,000695	0,00038	<0,02
61	Stérile	Ultramafique	0,0039	<0,00006	0,22	0,0044	0,00007	0,000333	0,00036	<0,02
62	Stérile	Ultramafique	0,0035	0,00016	0,218	0,0041	0,00059	0,00156	0,00035	<0,02
63	Stérile	Pegmatite stérile	0,0039	0,00009	0,0305	0,0041	0,0016	0,0167	0,00063	<0,02
64	Stérile	Pegmatite stérile	0,0037	0,00014	0,0227	0,0042	0,00247	0,00669	0,00016	<0,02
65	Stérile	Pegmatite stérile	0,0047	0,00034	0,0175	0,0044	0,00168	0,00283	0,00024	<0,02
66	Stérile	Pegmatite stérile	0,0044	0,00009	0,0149	0,0039	0,00143	0,00826	0,00022	<0,02
67	Stérile	Pegmatite stérile	0,0038	0,00013	0,0118	0,0047	0,0014	0,000886	0,00013	<0,02
68	Stérile	Pegmatite stérile	0,0061	0,00032	0,0216	0,0054	0,00143	0,0075	0,00016	<0,02
69	Stérile	Pegmatite stérile	0,004	0,00013	0,0506	0,004	0,00057	0,0193	0,00019	<0,02
70	Stérile	Pegmatite stérile	0,0052	0,00024	0,0314	0,0048	0,00064	0,0105	0,0004	0,07
71	Stérile	Pegmatite stérile	0,0055	0,00025	0,0337	0,0054	0,00089	0,0153	0,00021	<0,02
72	Stérile	Pegmatite stérile	0,006	0,00026	0,0343	0,0049	0,00072	0,0446	0,00054	0,03
73	Minerai	Pegmatite stérile	0,005	0,00016	0,0187	0,0038	0,00095	0,124	0,00001	<0,02
74	Minerai	Pegmatite spodumène	0,0048	0,0002	0,0126	0,0039	0,00147	0,0129	0,0001	<0,02
75	Minerai	Pegmatite spodumène	0,0042	0,00009	0,026	0,004	0,00081	0,0102	0,00013	<0,02

Essais TCLP

# échantillon	Type de matériel	Lithologie	pH	Conductivité	Alkalinité	Acidité	Fluoride	Bromide	Chlore	Sulfate	Nitrite
		Unité	Unité pH	µS/cm	$mgCaCO_3/l$	$mgCaCO_3/l$	mg/l	mg/l	mg/l	mg/l	mgN/l
		D019 – Critère risques élevés					150				100
76	Minerai	Pegmatite spodumène	4,97	4980	1560	1700	0,15	<30,0	<20,0	<20,0	<3,0
77	Minerai	Pegmatite spodumène	4,95	4960	1570	1830	0,33	<30,0	<20,0	<20,0	<3,0
78	Minerai	Pegmatite spodumène	4,98	4810	1560	1670	0,34	<30,0	<20,0	<20,0	<3,0
79	Minerai	Pegmatite spodumène	4,94	4890	1530	1760	0,11	<30,0	<20,0	<20,0	<3,0
80	Minerai	Pegmatite stérile	4,95	4880	1570	1710	0,12	<30,0	<20,0	<20,0	<3,0
81	Minerai	Pegmatite spodumène	4,93	4660	1180	1740	0,22	<30,0	<20,0	<20,0	<3,0
82	Minerai	Pegmatite spodumène	5,01	5150	1640	1600	0,4	<30,0	<20,0	<20,0	<3,0
83	Résidu	Résidu DMS	4,91	4500	1280	1650	0,1	<30,0	<20,0	<20,0	<3,0
84	Résidu	Résidu DMS	4,91	4630	1300	1660	0,16	<30,0	<20,0	<20,0	<3,0
CV5-MAG-C	Résidu	Magnétique	5,08	5260	1760	1040	1,45	<30,0	<20,0	<20,0	<3,0
CV5-DMS-MID	Résidu	Middlings	4,93	4710	1330	1430	0,30	<30,0	<20,0	<20,0	<3,0
CV5-FLO-C	Résidu	Flottation	4,91	4700	1390	1540	0,10	<30,0	<20,0	<20,0	<3,0
CV5-MAG-F	Résidu	Magnétique fin	4,98	4920	1630	1350	0,38	<30,0	<20,0	<20,0	<3,0
CV5-MID-F	Résidu	Middlings fin	4,92	4750	1390	1450	0,21	<30,0	<20,0	<20,0	<3,0
CV5-FLO-F	Résidu	Flottation fin	4,91	4730	1380	1510	0,12	<30,0	<20,0	<20,0	<3,0
CV5-BYP-CP	Résidu	Bypass	4,96	4860	1550	1390	0,29	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-088	Stérile	Amphibolite	5,11	4720	1530	1300	0,10	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-100	Stérile	Amphibolite	4,98	4490	1260	1560	1,51	<30,0	<50,0	22	<3,0
VIS-CV5-AMP-101	Stérile	Amphibolite	5,16	4840	1630	1170	0,53	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-102	Stérile	Amphibolite	4,97	4340	1200	1640	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-105	Stérile	Amphibolite	4,92	4280	1060	1740	0,43	<30,0	<50,0	70	<3,0
VIS-CV5-AMP-109	Stérile	Amphibolite	5,41	5250	2050	783	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-115	Stérile	Amphibolite	5,46	5230	2070	665	0,16	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-122	Stérile	Amphibolite	4,98	4360	1260	1550	0,18	<30,0	<50,0	<20,0	<3,0
VIS-CV5-AMP-134	Stérile	Amphibolite	4,97	4400	1220	1610	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-163	Stérile	Amphibolite	5,04	4610	1410	1440	0,07	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-167	Stérile	Amphibolite	5,01	4460	1310	1470	0,12	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-185	Stérile	Métasédiment	4,96	4760	1440	1610	0,20	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-186	Stérile	Métasédiment	4,98	4840	1500	1570	0,15	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-187	Stérile	Métasédiment	5,55	5990	2460	617	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-195	Stérile	Métasédiment	6,12	6040	2900	246	0,11	<30,0	<20,0	24	<3,0
VIS-CV5-MS-196	Stérile	Métasédiment	5,53	5720	2570	573	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-197	Stérile	Métasédiment	5,91	5890	2800	316	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-198	Stérile	Métasédiment	4,95	4670	1450	1520	0,67	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-201	Stérile	Métasédiment	4,92	4610	1380	1660	0,74	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-202	Stérile	Métasédiment	4,90	4800	1260	1740	4,05	<30,0	<20,0	87	<3,0
VIS-CV5-MS-203	Stérile	Métasédiment	4,95	4700	1420	1580	0,13	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-207	Stérile	Métasédiment	4,95	4720	1360	1680	4,91	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-210	Stérile	Métasédiment	4,91	4520	1340	1680	5,54	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-212	Stérile	Métasédiment	4,99	4780	1520	1570	1,71	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-220	Stérile	Métasédiment	4,91	4590	1260	1720	2,20	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-221	Stérile	Métasédiment	5,07	5050	1670	1300	<0,06	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-223	Stérile	Métasédiment	4,92	4600	1410	1660	0,12	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-224	Stérile	Métasédiment	4,92	4610	1330	1670	0,22	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-227	Stérile	Métasédiment	4,94	4690	1390	1610	0,10	<30,0	<20,0	<20,0	<3,0
VIS-CV5-MS-229	Stérile	Métasédiment	5,11	4740	1530	1310	<0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-231	Stérile	Métasédiment	4,92	4230	1100	1700	0,49	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-234	Stérile	Métasédiment	4,93	4270	1120	1710	0,11	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-239	Stérile	Métasédiment	5,11	4770	1540	1270	0,11	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-250	Stérile	Métasédiment	5,19	4950	1670	1100	0,06	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-253	Stérile	Métasédiment	4,99	4420	1260	1560	0,41	<30,0	<50,0	24	<3,0
VIS-CV5-MS-256	Stérile	Métasédiment	4,95	4340	1200	1630	1,48	<30,0	<50,0	<20,0	<3,0
VIS-CV5-UM-307	Stérile	Ultramafique	4,95	4300	1170	1700	0,47	<30,0	<20,0	<20,0	<3,0
VIS-CV5-UM-326	Stérile	Ultramafique	4,98	4410	1250	1600	0,61	<30,0	<20,0	<20,0	<3,0
81_DUP	Minerai	Pegmatite spodumène	4,93	4710	1170	1420	0,23	<30,0	<20,0	<20,0	<3,0
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	5,53	5400	2170	627	0,16	<30,0	<50,0	<20,0	<3,0
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	4,92	4270	1100	1720	1,09	<30,0	<50,0	<20,0	<3,0
CV5-MAG-C-DUP	Résidu	Magnétique	5,12	5150	1830	1020	0,38	<30,0	<20,0	<20,0	<3,0

Essais TCLP

# échantillon	Type de matériel	Lithologie	Nitrate	Nitrate + Nitrite	Phosphore réactif total	Mercure	Argent	Aluminum	Arsenic	Bore
		Unité	mgN/l	mgN/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés		1000		0,1			5	500
76	Minerai	Pegmatite spodumène	<6,0	<6,0	0,3	<0,00001	<0,0005	0,53	0,019	<0,02
77	Minerai	Pegmatite spodumène	<6,0	<6,0	1,07	<0,00001	<0,0005	0,54	0,042	<0,02
78	Minerai	Pegmatite spodumène	<6,0	<6,0	0,45	<0,00001	<0,0005	0,51	0,053	<0,02
79	Minerai	Pegmatite spodumène	<6,0	<6,0	0,4	<0,00001	<0,0005	0,46	0,031	<0,02
80	Minerai	Pegmatite stérile	<6,0	<6,0	0,07	<0,00001	<0,0005	0,69	0,102	<0,02
81	Minerai	Pegmatite spodumène	<6,0	<6,0	0,27	<0,00001	<0,0005	0,66	0,084	<0,02
82	Minerai	Pegmatite spodumène	<6,0	<6,0	0,03	<0,00001	<0,0005	1,65	0,01	<0,02
83	Résidu	Résidu DMS	<6,0	<6,0	0,08	<0,00001	<0,0005	0,71	0,022	<0,02
84	Résidu	Résidu DMS	<6,0	<6,0	0,06	<0,00001	<0,0005	0,71	0,021	<0,02
CV5-MAG-C	Résidu	Magnétique	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,91	0,581	0,212
CV5-DMS-MID	Résidu	Middlings	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,75	0,047	0,170
CV5-FLO-C	Résidu	Flottation	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,73	0,027	0,192
CV5-MAG-F	Résidu	Magnétique fin	<6,0	<6,0	0,08	<0,00001	0,00005	0,67	0,504	0,210
CV5-MID-F	Résidu	Middlings fin	<6,0	<6,0	0,03	<0,00001	<0,00005	0,57	0,120	0,197
CV5-FLO-F	Résidu	Flottation fin	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,50	0,031	0,175
CV5-BYP-CP	Résidu	Bypass	<6,0	<6,0	0,11	<0,00001	<0,00005	0,65	0,518	0,200
VIS-CV5-AMP-088	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,52	0,004	0,14
VIS-CV5-AMP-100	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,6	0,367	0,17
VIS-CV5-AMP-101	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,1	0,040	0,15
VIS-CV5-AMP-102	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,9	0,029	0,15
VIS-CV5-AMP-105	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,27	0,002	0,17
VIS-CV5-AMP-109	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,25	0,009	0,14
VIS-CV5-AMP-115	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,16	0,034	0,16
VIS-CV5-AMP-122	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,91	0,006	0,17
VIS-CV5-AMP-134	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,86	0,165	0,15
VIS-CV5-AMP-163	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,84	0,079	0,13
VIS-CV5-AMP-167	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,2	<0,002	0,22
VIS-CV5-MS-185	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,3	0,004	0,17
VIS-CV5-MS-186	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,0	0,008	0,17
VIS-CV5-MS-187	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,05	0,004	0,14
VIS-CV5-MS-195	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	<0,01	0,011	0,12
VIS-CV5-MS-196	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,03	0,088	0,14
VIS-CV5-MS-197	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,01	0,141	0,11
VIS-CV5-MS-198	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,96	0,009	0,20
VIS-CV5-MS-201	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,5	<0,002	0,16
VIS-CV5-MS-202	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,7	0,003	0,16
VIS-CV5-MS-203	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,41	0,018	0,16
VIS-CV5-MS-207	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	3,7	0,019	0,21
VIS-CV5-MS-210	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	3,7	0,458	0,25
VIS-CV5-MS-212	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,0	0,385	0,15
VIS-CV5-MS-220	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,75	0,004	0,16
VIS-CV5-MS-221	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,40	0,005	0,14
VIS-CV5-MS-223	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,4	0,127	0,16
VIS-CV5-MS-224	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,6	0,005	0,15
VIS-CV5-MS-227	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,87	0,003	0,14
VIS-CV5-MS-229	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,55	<0,002	0,13
VIS-CV5-MS-231	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,92	<0,002	0,14
VIS-CV5-MS-234	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	1,1	0,012	0,15
VIS-CV5-MS-239	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,81	0,006	0,15
VIS-CV5-MS-250	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,39	0,005	0,11
VIS-CV5-MS-253	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,79	0,003	0,13
VIS-CV5-MS-256	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	2,1	0,004	0,19
VIS-CV5-UM-307	Stérile	Ultramafique	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,74	0,648	0,19
VIS-CV5-UM-326	Stérile	Ultramafique	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,96	0,165	0,23
81_DUP	Minerai	Pegmatite spodumène	<6,0	<6,0	0,27	<0,00001	<0,0005	0,67	0,091	<0,02
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,10	0,028	0,13
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	<6,0	<6,0	<0,3	<0,00001	<0,0005	0,91	<0,002	0,15
CV5-MAG-C-DUP	Résidu	Magnétique	<6,0	<6,0	<0,03	<0,00001	<0,00005	0,32	1,23	0,218

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# échantillon	Type de matériel	Lithologie	Barium
		Unité	mg/l
		D019 – Critère risques élevés	100
76	Minerai	Pegmatite spodumène	0,00941
77	Minerai	Pegmatite spodumène	0,00297
78	Minerai	Pegmatite spodumène	0,00852
79	Minerai	Pegmatite spodumène	0,00345
80	Minerai	Pegmatite stérile	0,00697
81	Minerai	Pegmatite spodumène	0,00283
82	Minerai	Pegmatite spodumène	0,00997
83	Résidu	Résidu DMS	0,00417
84	Résidu	Résidu DMS	0,00687
CV5-MAG-C	Résidu	Magnétique	0,03217
CV5-DMS-MID	Résidu	Middlings	0,01627
CV5-FLO-C	Résidu	Flottation	0,01156
CV5-MAG-F	Résidu	Magnétique fin	0,02339
CV5-MID-F	Résidu	Middlings fin	0,02378
CV5-FLO-F	Résidu	Flottation fin	0,01191
CV5-BYP-CP	Résidu	Bypass	0,06261
VIS-CV5-AMP-088	Stérile	Amphibolite	0,0287
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0322
VIS-CV5-AMP-101	Stérile	Amphibolite	0,101
VIS-CV5-AMP-102	Stérile	Amphibolite	0,136
VIS-CV5-AMP-105	Stérile	Amphibolite	0,109
VIS-CV5-AMP-109	Stérile	Amphibolite	0,0319
VIS-CV5-AMP-115	Stérile	Amphibolite	0,0953
VIS-CV5-AMP-122	Stérile	Amphibolite	0,0622
VIS-CV5-AMP-134	Stérile	Amphibolite	0,0232
VIS-CV5-AMP-163	Stérile	Amphibolite	0,0494
VIS-CV5-AMP-167	Stérile	Amphibolite	0,0205
VIS-CV5-MS-185	Stérile	Métasédiment	0,0746
VIS-CV5-MS-186	Stérile	Métasédiment	0,0923
VIS-CV5-MS-187	Stérile	Métasédiment	0,0728
VIS-CV5-MS-195	Stérile	Métasédiment	0,246
VIS-CV5-MS-196	Stérile	Métasédiment	0,196
VIS-CV5-MS-197	Stérile	Métasédiment	0,237
VIS-CV5-MS-198	Stérile	Métasédiment	0,0887
VIS-CV5-MS-201	Stérile	Métasédiment	0,0863
VIS-CV5-MS-202	Stérile	Métasédiment	0,0625
VIS-CV5-MS-203	Stérile	Métasédiment	0,0397
VIS-CV5-MS-207	Stérile	Métasédiment	0,0705
VIS-CV5-MS-210	Stérile	Métasédiment	0,0649
VIS-CV5-MS-212	Stérile	Métasédiment	0,0748
VIS-CV5-MS-220	Stérile	Métasédiment	0,106
VIS-CV5-MS-221	Stérile	Métasédiment	0,264
VIS-CV5-MS-223	Stérile	Métasédiment	0,0665
VIS-CV5-MS-224	Stérile	Métasédiment	0,0646
VIS-CV5-MS-227	Stérile	Métasédiment	0,0719
VIS-CV5-MS-229	Stérile	Métasédiment	0,265
VIS-CV5-MS-231	Stérile	Métasédiment	0,111
VIS-CV5-MS-234	Stérile	Métasédiment	0,0760
VIS-CV5-MS-239	Stérile	Métasédiment	0,112
VIS-CV5-MS-250	Stérile	Métasédiment	0,0145
VIS-CV5-MS-253	Stérile	Métasédiment	0,0915
VIS-CV5-MS-256	Stérile	Métasédiment	0,162
VIS-CV5-UM-307	Stérile	Ultramafique	0,0596
VIS-CV5-UM-326	Stérile	Ultramafique	0,0149
81_DUP	Minerai	Pegmatite spodumène	0,00273
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,0844
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,120
CV5-MAG-C-DUP	Résidu	Magnétique	0,02718

Essais TCLP

# échantillon	Type de matériel	Lithologie	Beryllium	Bismuth	Calcium	Cadmium	Cobalt	Chrome	Cuivre	Fer	Potassium
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés				0,5		5			
76	Minerai	Pegmatite spodumène	0,00857	0,00972	30,2	0,0005	0,00438	0,0047	0,004	0,29	4,41
77	Minerai	Pegmatite spodumène	0,01066	0,00024	13,9	0,00061	0,00472	0,0082	0,007	0,21	2,72
78	Minerai	Pegmatite spodumène	0,00782	0,00577	42,6	0,00078	0,0109	0,0065	0,007	0,08	4,24
79	Minerai	Pegmatite spodumène	0,00248	0,0021	7,8	0,0004	0,00353	0,0042	0,003	0,12	4,29
80	Minerai	Pegmatite stérile	0,00779	0,00888	13,5	0,00142	0,0161	0,0047	0,047	0,34	4,94
81	Minerai	Pegmatite spodumène	0,00204	0,00342	7,5	0,00048	0,00054	0,0052	<0,002	0,19	2,82
82	Minerai	Pegmatite spodumène	0,00674	0,00115	59	0,0006	0,00634	0,0053	0,014	0,44	10,4
83	Résidu	Résidu DMS	0,00154	0,00122	5	0,00005	0,000466	0,0024	0,003	0,12	4,01
84	Résidu	Résidu DMS	0,00149	0,00528	8,4	0,00005	0,000553	0,0026	0,003	0,12	3,23
CV5-MAG-C	Résidu	Magnétique	0,001460	0,0010	151	0,000510	0,03102	0,053240	0,03	<0,07	230
CV5-DMS-MID	Résidu	Middlings	0,002330	0,0031	17,5	0,000690	0,01319	0,003020	<0,01	1,83	3,88
CV5-FLO-C	Résidu	Flottation	0,000840	0,0035	4,6	0,000060	0,00199	0,000500	0,02	<0,07	3,63
CV5-MAG-F	Résidu	Magnétique fin	0,001770	0,0002	65,3	0,000190	0,03687	0,017440	0,01	3,56	3,99
CV5-MID-F	Résidu	Middlings fin	0,003110	0,0049	21,0	0,000290	0,01652	0,004840	<0,01	1,33	2,73
CV5-FLO-F	Résidu	Flottation fin	0,001350	0,0050	14,2	0,000100	0,00287	0,000770	<0,01	0,15	1,82
CV5-BYP-CP	Résidu	Bypass	0,005310	0,0299	55,4	0,000440	0,01544	0,011570	0,11	1,34	3,35
VIS-CV5-AMP-088	Stérile	Amphibolite	<0,00007	0,0002	204	0,00022	0,00729	0,0055	0,01	3,6	1,4
VIS-CV5-AMP-100	Stérile	Amphibolite	0,00343	0,0028	75,1	0,00035	0,0732	0,0107	0,06	2,3	5,9
VIS-CV5-AMP-101	Stérile	Amphibolite	0,00131	<0,0001	230	0,00016	0,0593	0,0052	0,02	4,2	4,9
VIS-CV5-AMP-102	Stérile	Amphibolite	0,00048	<0,0001	51,2	0,00016	0,0207	0,0110	0,02	5,8	9,7
VIS-CV5-AMP-105	Stérile	Amphibolite	0,00125	<0,0001	24,1	0,00004	0,0528	0,0025	<0,01	18,1	2,7
VIS-CV5-AMP-109	Stérile	Amphibolite	0,00008	<0,0001	387	0,00044	0,00890	0,0028	0,01	4,2	1,3
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,00007	<0,0001	424	0,00027	0,0921	0,0019	<0,01	3,9	2,9
VIS-CV5-AMP-122	Stérile	Amphibolite	0,00057	<0,0001	61,7	0,00019	0,0174	0,0066	<0,01	3,8	5,0
VIS-CV5-AMP-134	Stérile	Amphibolite	0,00014	<0,0001	64,3	0,00010	0,0160	0,0017	0,01	6,8	1,2
VIS-CV5-AMP-163	Stérile	Amphibolite	0,00102	0,0002	122	0,00144	0,0565	0,0196	<0,01	15,5	4,1
VIS-CV5-AMP-167	Stérile	Amphibolite	0,00875	0,0005	95,3	<0,00003	0,0139	0,0032	0,02	3,3	1,7
VIS-CV5-MS-185	Stérile	Métasédiment	0,00063	0,0001	57,1	0,00010	0,00904	0,0065	0,02	2,9	9,0
VIS-CV5-MS-186	Stérile	Métasédiment	0,00029	<0,0001	78,2	0,00017	0,00721	0,0104	0,02	3,6	8,8
VIS-CV5-MS-187	Stérile	Métasédiment	<0,00007	<0,0001	446	0,00061	0,00313	0,0027	<0,01	2,7	6,7
VIS-CV5-MS-195	Stérile	Métasédiment	<0,00007	<0,0001	1960	0,00140	0,00977	<0,0008	<0,01	27,8	2,6
VIS-CV5-MS-196	Stérile	Métasédiment	<0,00007	<0,0001	1740	0,00107	0,0103	0,0010	0,01	48,0	2,7
VIS-CV5-MS-197	Stérile	Métasédiment	<0,00007	<0,0001	1900	0,00080	0,0116	<0,0008	<0,01	28,3	4,6
VIS-CV5-MS-198	Stérile	Métasédiment	0,00279	0,0001	56,4	0,00035	0,0255	0,0114	<0,01	3,3	6,4
VIS-CV5-MS-201	Stérile	Métasédiment	0,00026	<0,0001	17,0	0,00011	0,00893	0,0125	<0,01	4,8	5,8
VIS-CV5-MS-202	Stérile	Métasédiment	0,00158	<0,0001	12,4	0,00013	0,0305	0,0093	<0,01	24,9	3,4
VIS-CV5-MS-203	Stérile	Métasédiment	0,00093	<0,0001	52,1	0,00008	0,0215	0,0059	0,01	1,3	1,4
VIS-CV5-MS-207	Stérile	Métasédiment	0,00171	0,0002	32,6	0,00019	0,0334	0,0211	0,01	3,7	5,4
VIS-CV5-MS-210	Stérile	Métasédiment	0,00368	0,0170	8,7	0,00206	0,0229	0,0033	0,07	2,4	5,5
VIS-CV5-MS-212	Stérile	Métasédiment	0,00118	0,0006	76,7	0,00171	0,0221	0,0040	0,01	2,2	6,9
VIS-CV5-MS-220	Stérile	Métasédiment	0,00010	0,0003	7,8	0,00004	0,00822	0,0027	<0,01	2,6	8,3
VIS-CV5-MS-221	Stérile	Métasédiment	0,00009	0,0002	157	0,00022	0,00285	0,0170	<0,01	4,9	5,3
VIS-CV5-MS-223	Stérile	Métasédiment	0,00098	0,0002	17,5	0,00017	0,0239	0,0153	<0,01	2,8	7,2
VIS-CV5-MS-224	Stérile	Métasédiment	0,00125	0,0001	9,2	0,00078	0,0343	0,0054	0,02	3,2	7,0
VIS-CV5-MS-227	Stérile	Métasédiment	0,00039	<0,0001	35,6	0,00011	0,0117	0,0037	<0,01	6,2	7,2
VIS-CV5-MS-229	Stérile	Métasédiment	0,00008	<0,0001	189	0,00022	0,0119	0,0066	0,01	8,5	12,9
VIS-CV5-MS-231	Stérile	Métasédiment	0,00056	<0,0001	11,5	0,00003	0,00664	0,0262	<0,01	4,9	7,7
VIS-CV5-MS-234	Stérile	Métasédiment	0,00047	0,0003	13,7	0,00026	0,0145	0,0064	<0,01	3,4	7,9
VIS-CV5-MS-239	Stérile	Métasédiment	0,00036	<0,0001	194	0,00018	0,0155	0,0072	<0,01	4,5	4,2
VIS-CV5-MS-250	Stérile	Métasédiment	0,00008	<0,0001	254	0,00008	0,00220	0,0018	<0,01	14,7	1,0
VIS-CV5-MS-253	Stérile	Métasédiment	0,00024	0,0001	78,1	0,00009	0,00462	0,0018	<0,01	20,2	5,0
VIS-CV5-MS-256	Stérile	Métasédiment	0,00035	0,0002	33,4	0,00008	0,00663	0,0110	<0,01	5,8	9,9
VIS-CV5-UM-307	Stérile	Ultramafique	0,00121	0,0003	32,3	0,00017	0,0363	0,0167	<0,01	2,7	3,4
VIS-CV5-UM-326	Stérile	Ultramafique	0,0103	<0,0001	61,5	0,00140	0,365	0,0290	<0,01	4,7	5,9
81_DUP	Minerai	Pegmatite spodumène	0,00219	0,00449	5	0,00038	0,00056	0,0059	<0,002	0,17	2,92
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,00007	<0,0001	436	0,00024	0,0842	0,0015	<0,01	3,3	1,8
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,00059	<0,0001	13,0	0,00003	0,00675	0,0260	<0,01	5,3	8,1
CV5-MAG-C-DUP	Résidu	Magnétique	0,001190	0,0002	121	0,000680	0,03664	0,043900	<0,01	13,3	4,18

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# échantillon	Type de matériel	Lithologie	Lithium	Magnésium	Manganèse	Molybdène	Sodium	Nickel	Phosphore	Argent	Antimoine
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés								5	
76	Minerai	Pegmatite spodumène	0,258	0,81	0,967	0,0017	1280	0,004	0,32	0,00429	<0,009
77	Minerai	Pegmatite spodumène	0,698	0,28	3,09	0,0041	1300	0,005	1,05	0,00103	0,01
78	Minerai	Pegmatite spodumène	0,256	0,88	1,29	0,0033	1270	0,004	0,5	0,00234	<0,009
79	Minerai	Pegmatite spodumène	0,167	0,23	0,719	0,0013	1250	0,002	0,44	0,00226	<0,009
80	Minerai	Pegmatite stérile	0,074	0,76	0,318	0,0017	1280	0,026	0,07	0,0176	<0,009
81	Minerai	Pegmatite spodumène	0,297	0,17	0,683	0,0017	1270	0,002	0,32	0,00137	0,011
82	Minerai	Pegmatite spodumène	0,174	0,42	0,602	0,0013	1250	0,003	0,05	0,00735	<0,009
83	Résidu	Résidu DMS	0,03	0,1	0,0884	<0,0004	1430	<0,001	0,067	0,00155	<0,009
84	Résidu	Résidu DMS	0,028	0,14	0,0869	<0,0004	1440	<0,001	0,037	0,00207	<0,009
CV5-MAG-C	Résidu	Magnétique	0,125	126	6,26	<0,0004	1400	0,800	0,03	0,0093	0,194
CV5-DMS-MID	Résidu	Middlings	0,118	3,52	0,420	<0,0004	1280	0,031	0,03	0,0208	0,0106
CV5-FLO-C	Résidu	Flottation	0,0254	0,57	0,0902	<0,0004	1350	0,002	0,03	0,0034	0,0057
CV5-MAG-F	Résidu	Magnétique fin	0,126	8,40	1,05	0,0005	1340	0,394	0,05	0,0058	0,0734
CV5-MID-F	Résidu	Middlings fin	0,0811	3,55	0,485	<0,0004	1320	0,077	0,04	0,0084	0,0189
CV5-FLO-F	Résidu	Flottation fin	0,0433	0,76	0,270	<0,0004	1300	0,003	0,04	0,0072	0,0077
CV5-BYP-CP	Résidu	Bypass	0,239	5,45	1,82	0,0006	1400	0,397	0,12	0,0273	0,0876
VIS-CV5-AMP-088	Stérile	Amphibolite	0,018	2,6	1,86	<0,004	1470	0,012	<0,03	0,0173	<0,009
VIS-CV5-AMP-100	Stérile	Amphibolite	0,285	5,0	0,558	<0,004	1440	0,403	0,06	0,0038	0,074
VIS-CV5-AMP-101	Stérile	Amphibolite	0,169	4,3	0,985	<0,004	1400	0,129	<0,03	0,0022	0,021
VIS-CV5-AMP-102	Stérile	Amphibolite	0,242	3,2	0,599	<0,004	1410	0,068	<0,03	0,0028	0,020
VIS-CV5-AMP-105	Stérile	Amphibolite	0,084	4,5	0,470	<0,004	1390	0,101	<0,03	0,0022	<0,009
VIS-CV5-AMP-109	Stérile	Amphibolite	0,055	2,4	3,26	<0,004	1410	0,039	<0,03	0,0056	<0,009
VIS-CV5-AMP-115	Stérile	Amphibolite	0,045	3,7	3,75	<0,004	1410	0,156	<0,03	0,0011	<0,009
VIS-CV5-AMP-122	Stérile	Amphibolite	0,084	3,2	0,585	<0,004	1350	0,055	<0,03	0,0016	0,015
VIS-CV5-AMP-134	Stérile	Amphibolite	0,037	2,0	0,418	<0,004	1460	0,015	<0,03	0,0086	<0,009
VIS-CV5-AMP-163	Stérile	Amphibolite	0,049	3,8	0,670	<0,004	1430	0,203	<0,03	0,0195	0,075
VIS-CV5-AMP-167	Stérile	Amphibolite	0,058	9,8	0,491	<0,004	1430	0,008	<0,03	0,0032	<0,009
VIS-CV5-MS-185	Stérile	Métasédiment	0,089	2,4	0,843	<0,004	1370	0,014	<0,03	0,0356	<0,009
VIS-CV5-MS-186	Stérile	Métasédiment	0,105	1,9	1,40	<0,004	1480	0,013	<0,03	0,0931	<0,009
VIS-CV5-MS-187	Stérile	Métasédiment	0,034	2,1	4,06	<0,004	1360	0,006	<0,03	0,0037	<0,009
VIS-CV5-MS-195	Stérile	Métasédiment	0,005	16,6	27,7	<0,004	6,7	0,094	<0,03	0,0012	<0,009
VIS-CV5-MS-196	Stérile	Métasédiment	0,005	12,3	26,0	<0,004	6,3	0,187	<0,03	0,0233	<0,009
VIS-CV5-MS-197	Stérile	Métasédiment	0,006	13,0	27,1	<0,004	6,2	0,383	<0,03	<0,0009	<0,009
VIS-CV5-MS-198	Stérile	Métasédiment	0,131	2,9	0,729	<0,004	1420	0,034	<0,03	0,0098	<0,009
VIS-CV5-MS-201	Stérile	Métasédiment	0,147	1,8	0,194	<0,004	1360	0,015	<0,03	0,0700	<0,009
VIS-CV5-MS-202	Stérile	Métasédiment	0,181	3,2	0,315	<0,004	1310	0,071	<0,03	0,0222	<0,009
VIS-CV5-MS-203	Stérile	Métasédiment	0,050	1,9	0,319	<0,004	1340	0,024	<0,03	0,0099	<0,009
VIS-CV5-MS-207	Stérile	Métasédiment	0,216	2,4	0,647	<0,004	1420	0,049	<0,03	0,0520	0,010
VIS-CV5-MS-210	Stérile	Métasédiment	0,410	1,8	0,178	<0,004	1380	0,040	<0,03	0,304	0,848
VIS-CV5-MS-212	Stérile	Métasédiment	0,215	1,2	0,984	<0,004	1380	0,061	<0,03	0,0589	0,154
VIS-CV5-MS-220	Stérile	Métasédiment	0,039	0,78	0,0354	<0,004	1400	0,008	<0,03	0,0047	<0,009
VIS-CV5-MS-221	Stérile	Métasédiment	0,042	3,0	2,59	<0,004	1390	0,012	<0,03	0,0306	<0,009
VIS-CV5-MS-223	Stérile	Métasédiment	0,171	3,1	0,103	<0,004	1380	0,170	<0,03	0,0070	<0,009
VIS-CV5-MS-224	Stérile	Métasédiment	0,150	2,8	0,203	<0,004	1370	0,077	<0,03	0,0567	<0,009
VIS-CV5-MS-227	Stérile	Métasédiment	0,112	3,1	0,523	<0,004	1400	0,025	<0,03	0,0543	<0,009
VIS-CV5-MS-229	Stérile	Métasédiment	0,088	2,4	2,62	<0,004	1430	0,059	<0,03	0,0257	<0,009
VIS-CV5-MS-231	Stérile	Métasédiment	0,051	1,3	0,0709	<0,004	1440	0,018	<0,03	0,0042	<0,009
VIS-CV5-MS-234	Stérile	Métasédiment	0,185	1,8	0,174	<0,004	1420	0,019	<0,03	0,0172	<0,009
VIS-CV5-MS-239	Stérile	Métasédiment	0,086	2,7	0,894	<0,004	1440	0,060	<0,03	0,0134	0,053
VIS-CV5-MS-250	Stérile	Métasédiment	0,013	2,6	2,85	<0,004	1430	<0,001	<0,03	0,0026	<0,009
VIS-CV5-MS-253	Stérile	Métasédiment	0,089	0,97	0,496	<0,004	1430	0,046	<0,03	0,0030	<0,009
VIS-CV5-MS-256	Stérile	Métasédiment	0,183	2,2	0,395	<0,004	1350	0,016	<0,03	0,0043	<0,009
VIS-CV5-UM-307	Stérile	Ultramafique	0,105	3,4	0,292	<0,004	1410	0,388	0,03	0,0080	0,127
VIS-CV5-UM-326	Stérile	Ultramafique	0,147	18,5	0,452	<0,004	1400	0,440	<0,03	0,0470	0,199
81_DUP	Minerai	Pegmatite spodumène	0,298	0,15	0,717	0,0022	1280	0,003	0,27	0,00194	0,012
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	0,042	3,3	3,63	<0,004	1360	0,146	<0,03	0,0016	<0,009
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	0,053	1,4	0,0785	<0,004	1440	0,018	<0,03	0,0053	<0,009
CV5-MAG-C-DUP	Résidu	Magnétique	0,133	40,3	2,17	<0,0004	1400	1,51	<0,03	0,0187	0,190

Essais TCLP

# échantillon	Type de matériel	Lithologie	Sélénium	Etain	Strontium	Titane	Thorium	Uranium	Vanadium	Zinc
		Unité	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		D019 – Critère risques élevés	1					2		
76	Minerai	Pegmatite spodumène	0,0043	0,00013	0,0564	0,0039	0,00091	0,00442	0,00017	<0,02
77	Minerai	Pegmatite spodumène	0,0036	0,00015	0,0478	0,0033	0,00145	0,0414	0,00022	<0,02
78	Minerai	Pegmatite spodumène	0,007	0,00011	0,058	0,0052	0,00122	0,00838	0,00035	<0,02
79	Minerai	Pegmatite spodumène	0,0055	0,00031	0,02	0,0047	0,0013	0,019	0,00006	<0,02
80	Minerai	Pegmatite stérile	0,0037	0,00018	0,0321	0,0037	0,00117	0,00775	0,00032	0,04
81	Minerai	Pegmatite spodumène	0,0048	0,00015	0,028	0,0045	0,00112	0,0217	0,00018	<0,02
82	Minerai	Pegmatite spodumène	0,0046	0,00025	0,0418	0,0048	0,00289	0,033	0,00039	<0,02
83	Résidu	Résidu DMS	0,0028	<0,00006	0,00872	<0,0005	0,0017	0,00367	0,00006	<0,02
84	Résidu	Résidu DMS	0,0024	<0,00006	0,0098	<0,0005	0,0012	0,00331	0,00009	<0,02
CV5-MAG-C	Résidu	Magnétique	0,124	0,00009	2,56	<0,0001	0,00144	0,0346	0,00155	0,22
CV5-DMS-MID	Résidu	Middlings	0,0302	<0,00004	1,51	<0,0001	0,00081	0,0418	0,00078	0,39
CV5-FLO-C	Résidu	Flottation	0,0139	0,00005	1,82	<0,0001	0,00136	0,0284	0,00018	<0,02
CV5-MAG-F	Résidu	Magnétique fin	0,0637	<0,00004	2,15	0,0006	0,00167	0,0436	0,00203	<0,02
CV5-MID-F	Résidu	Middlings fin	0,0387	<0,00004	1,33	0,0003	0,00071	0,0432	0,00100	0,03
CV5-FLO-F	Résidu	Flottation fin	0,0220	<0,00004	1,12	0,0001	0,00044	0,0388	0,00023	<0,02
CV5-BYP-CP	Résidu	Bypass	0,0845	0,00017	1,75	0,0002	0,00120	0,167	0,00075	0,12
VIS-CV5-AMP-088	Stérile	Amphibolite	<0,0004	<0,0006	0,0800	<0,001	<0,00005	0,00041	0,0007	0,03
VIS-CV5-AMP-100	Stérile	Amphibolite	0,0016	<0,0006	0,0704	<0,001	0,00251	0,0118	0,0016	0,05
VIS-CV5-AMP-101	Stérile	Amphibolite	0,0004	<0,0006	0,0931	<0,001	0,00085	0,00145	0,0008	0,05
VIS-CV5-AMP-102	Stérile	Amphibolite	<0,0004	<0,0006	0,0496	<0,001	0,00055	0,00046	0,0016	0,09
VIS-CV5-AMP-105	Stérile	Amphibolite	<0,0004	<0,0006	0,0302	<0,001	0,00013	0,00758	<0,0001	<0,02
VIS-CV5-AMP-109	Stérile	Amphibolite	<0,0004	<0,0006	0,119	<0,001	0,00016	0,00033	0,0005	0,07
VIS-CV5-AMP-115	Stérile	Amphibolite	<0,0004	<0,0006	0,236	<0,001	0,00017	0,00604	0,0002	0,03
VIS-CV5-AMP-122	Stérile	Amphibolite	<0,0004	<0,0006	0,0417	<0,001	0,00037	0,00157	0,0007	0,04
VIS-CV5-AMP-134	Stérile	Amphibolite	<0,0004	<0,0006	0,0526	<0,001	0,00008	0,00125	0,0014	0,06
VIS-CV5-AMP-163	Stérile	Amphibolite	<0,0004	<0,0006	0,0811	<0,001	0,00011	0,0500	0,0001	0,24
VIS-CV5-AMP-167	Stérile	Amphibolite	<0,0004	<0,0006	0,235	<0,001	0,00005	0,00237	0,0007	<0,02
VIS-CV5-MS-185	Stérile	Métasédiment	<0,0004	<0,0006	0,0792	<0,001	0,00014	0,00180	0,0008	0,03
VIS-CV5-MS-186	Stérile	Métasédiment	<0,0004	<0,0006	0,0769	<0,001	0,00020	0,00211	0,0009	0,03
VIS-CV5-MS-187	Stérile	Métasédiment	<0,0004	<0,0006	0,235	<0,001	0,00011	0,00314	0,0004	0,02
VIS-CV5-MS-195	Stérile	Métasédiment	<0,0004	<0,0006	2,45	<0,001	<0,00005	0,00095	<0,0001	<0,02
VIS-CV5-MS-196	Stérile	Métasédiment	0,0005	<0,0006	2,39	<0,001	<0,00005	0,00072	0,0001	0,07
VIS-CV5-MS-197	Stérile	Métasédiment	<0,0004	<0,0006	2,06	<0,001	<0,00005	0,00086	<0,0001	<0,02
VIS-CV5-MS-198	Stérile	Métasédiment	<0,0004	<0,0006	0,0597	<0,001	0,00035	0,0137	0,0004	0,08
VIS-CV5-MS-201	Stérile	Métasédiment	<0,0004	<0,0006	0,0440	<0,001	0,00017	0,00477	0,0004	<0,02
VIS-CV5-MS-202	Stérile	Métasédiment	<0,0004	<0,0006	0,0177	<0,001	0,00016	0,00362	0,0001	0,06
VIS-CV5-MS-203	Stérile	Métasédiment	0,0005	<0,0006	0,0436	<0,001	0,00028	0,00747	0,0001	<0,02
VIS-CV5-MS-207	Stérile	Métasédiment	<0,0004	<0,0006	0,0417	0,001	0,00079	0,00507	0,0011	0,05
VIS-CV5-MS-210	Stérile	Métasédiment	0,0010	<0,0006	0,0192	0,004	0,00388	0,00503	0,0007	0,38
VIS-CV5-MS-212	Stérile	Métasédiment	<0,0004	<0,0006	0,0755	<0,001	0,00111	0,0147	0,0013	0,18
VIS-CV5-MS-220	Stérile	Métasédiment	<0,0004	<0,0006	0,0431	<0,001	0,00008	0,0152	0,0012	0,03
VIS-CV5-MS-221	Stérile	Métasédiment	<0,0004	<0,0006	0,0616	<0,001	0,00010	0,00411	0,0006	0,05
VIS-CV5-MS-223	Stérile	Métasédiment	<0,0004	<0,0006	0,0365	<0,001	0,00053	0,00508	0,0005	0,04
VIS-CV5-MS-224	Stérile	Métasédiment	<0,0004	<0,0006	0,0344	<0,001	0,00056	0,00722	0,0003	0,15
VIS-CV5-MS-227	Stérile	Métasédiment	<0,0004	<0,0006	0,0268	<0,001	0,00062	0,00868	<0,0001	0,03
VIS-CV5-MS-229	Stérile	Métasédiment	<0,0004	<0,0006	0,119	<0,001	0,00082	0,00055	0,0001	0,12
VIS-CV5-MS-231	Stérile	Métasédiment	<0,0004	<0,0006	0,0202	<0,001	0,00052	0,00450	0,0002	0,02
VIS-CV5-MS-234	Stérile	Métasédiment	<0,0004	<0,0006	0,0381	<0,001	0,00025	0,00931	0,0009	0,08
VIS-CV5-MS-239	Stérile	Métasédiment	<0,0004	<0,0006	0,0856	<0,001	0,00028	0,00079	0,0008	0,07
VIS-CV5-MS-250	Stérile	Métasédiment	<0,0004	<0,0006	0,0948	<0,001	<0,00005	0,00150	<0,0001	<0,02
VIS-CV5-MS-253	Stérile	Métasédiment	<0,0004	0,0028	0,0489	<0,001	<0,00005	0,00223	<0,0001	<0,02
VIS-CV5-MS-256	Stérile	Métasédiment	<0,0004	<0,0006	0,0390	<0,001	0,00018	0,00260	0,0020	0,03
VIS-CV5-UM-307	Stérile	Ultramafique	<0,0004	<0,0006	0,0466	<0,001	0,00182	0,0117	0,0017	0,03
VIS-CV5-UM-326	Stérile	Ultramafique	<0,0004	<0,0006	0,472	<0,001	0,00036	0,00047	0,0018	0,16
81_DUP	Minerai	Pegmatite spodumène	0,0047	0,00021	0,0226	0,0046	0,00104	0,0229	0,00021	<0,02
VIS-CV5-AMP-115 - LAB DUP	Stérile	Amphibolite	<0,0004	<0,0006	0,224	<0,001	0,00016	0,00552	0,0002	0,03
VIS-CV5-MS-231 - LAB DUP	Stérile	Métasédiment	<0,0004	<0,0006	0,0214	<0,001	0,00043	0,00461	0,0002	<0,02
CV5-MAG-C-DUP	Résidu	Magnétique	0,194	0,00006	2,38	0,0001	0,00249	0,0119	0,00135	0,64

Annexe D : Données des essais cinétiques

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	836	930	968	967	962	997	995	1000	923	927	902
pH	pH	No unit	8,80	7,75	7,22	7,53	7,04	6,90	6,89	7,27	7,14	7,05	6,96
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	8	6	7	4	7	4	7	5	4	4
Conductivité	Conductivité	µS/cm	45	50	46	59	40	45	36	39	36	38	43
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	4	8	3	5	4	2	5	5	7
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	8	9	10	11	9	8	8	9	10	12
Chlore	Cl^-	mg/l	4	7	4	3	1	1	<1,0	<1,0	1	1	4
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,172	0,061	0,049	0,044	0,033	0,016	0,036	0,035	0,044	0,041	0,040
Arsenic	As	mg/l	0,0027	0,0036	0,0064	0,0043	0,0052	0,0053	0,0054	0,0083	0,0067	0,0066	0,0067
Baryum	Ba	mg/l	0,00054	0,00043	0,00035	0,00036	0,00043	0,00045	0,00046	0,00042	0,00034	0,00033	0,00048
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,012	0,023	0,024	0,020	0,019	0,016	0,011	0,012	0,009	0,008	0,010
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,08	3,71	3,43	3,96	4,04	4,50	3,57	4,54	4,55	4,43	5,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000012	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000031	0,000040	0,000051	0,000054	0,000080	0,000164	0,000095	0,000121	0,000088	0,000086	0,000088
Chrome	Cr	mg/l	0,00009	0,00017	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,0009	0,0004	<0,0002	<0,0002	0,0003	0,0003	<0,0002	<0,0002	<0,0002	<0,0002	0,0005
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009	0,007	<0,007	0,007	0,022
Potassium	K	mg/l	1,21	1,20	1,08	0,975	0,945	0,908	0,707	0,732	0,668	0,581	0,732
Lithium	Li	mg/l	0,0302	0,0463	0,0472	0,0435	0,0432	0,0363	0,0281	0,0270	0,0275	0,0228	0,0312
Magnésium	Mg	mg/l	0,545	0,642	0,635	0,774	0,780	0,870	0,665	0,790	0,720	0,639	0,946
Manganese	Mn	mg/l	0,00069	0,00204	0,00208	0,00241	0,00228	0,00313	0,00267	0,00351	0,00219	0,00203	0,00228
Molybdène	Mo	mg/l	0,00035	0,00064	0,00063	0,00128	0,00041	0,00035	0,00184	0,00184	0,00022	0,00014	0,00075
Sodium	Na	mg/l	3,03	4,56	3,46	2,88	2,24	1,75	1,07	1,12	0,96	0,80	0,87
Nickel	Ni	mg/l	0,0002	0,0004	0,0002	0,0003	0,0005	0,0005	0,0004	0,0004	0,0003	0,0002	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0030	0,0109	0,0081	0,0099	0,0079	0,0136	0,0083	0,0118	0,0055	0,0055	0,0066
Sélénium	Se	mg/l	0,00036	0,00045	0,00055	0,00030	0,00035	0,00034	0,00019	0,00038	0,00028	0,00026	0,00044
Etain	Sn	mg/l	0,00273	0,00057	0,00030	0,00016	0,00008	0,00013	0,00006	0,00007	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0188	0,0182	0,01901	0,0206	0,02196	0,0210	0,0172	0,01970	0,0197	0,01979	0,0232
Titane	Ti	mg/l	0,00035	0,00035	0,00044	0,00069	0,00028	<0,00005	0,00062	0,00043	0,00036	0,00030	0,00047
Thallium	Th	mg/l	0,000006	<0,000005	0,000020	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000015	<0,000005	<0,000005
Uranium	U	mg/l	0,000305	0,000263	0,002292	0,000316	0,000182	0,000174	0,000145	0,000222	0,00182	0,000108	0,000155
Vanadium	V	mg/l	0,00085	0,00066	0,00055	0,00045	0,00047	0,00039	0,00037	0,00046	0,00046	0,00045	0,00041
Tungstène	W	mg/l	0,00054	0,00063	0,00073	0,00055	0,00045	0,00034	0,00268	0,00027	0,00015	0,00018	0,00023
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00011	<0,00001	<0,00001	<0,00001	0,00007	<0,00001	<0,00001	<0,00001	0,00002	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0184	0,0143	0,0134	0,0146	0,0129	0,0114	0,0111	0,0121	0,0112	0,0096	0,0114
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0174	0,0139	0,0122	0,0113	0,0105	0,0108	0,0080	0,0094	0,0080	0,0077	0,0094
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	902	975	963	962	901	942	917	903	891	920	924
pH	pH	No unit	7,00	7,03	7,00	6,78	6,54	7,00	6,85	7,13	6,82	6,80	6,66
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	3	3	4	3	3	4	3	3	3
Conductivité	Conductivité	µS/cm	29	28	26	24	38	34	29	28	24	25	26
Acidité	Acidité	$mgCaCO_3/l$	2	6	2	2	10	2	3	3	3	2	3
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	6	7	6	10	7	7	7	6	<6,0	6
Chlore	Cl^-	mg/l					3	<1,0		<1,0		2	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00013	<0,00005
Aluminum	Al	mg/l	0,057	0,033	0,029	0,028	0,030	0,031	0,033	0,030	0,031	0,028	0,028
Arsenic	As	mg/l	0,0054	0,0057	0,0051	0,0040	0,0049	0,0044	0,0049	0,0076	0,0053	0,0053	0,0045
Baryum	Ba	mg/l	0,00041	0,00025	0,00022	0,00030	0,00045	0,00026	0,00030	0,00026	0,00028	0,00024	0,00029
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,008	0,005	0,005	0,005	0,006	0,005	0,005	0,006	0,004	0,004	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,20	3,21	3,03	3,24	4,41	3,25	3,56	3,85	3,24	3,20	3,27
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000005	0,000007	<0,000003	<0,000003	<0,000003	0,000007	<0,000003
Cobalt	Co	mg/l	0,000110	0,000094	0,000116	0,000068	0,000114	0,000079	0,000122	0,000071	0,000068	0,000092	0,000075
Chrome	Cr	mg/l	0,00013	0,00008	0,00158	<0,00008	<0,00008	0,00012	<0,00008	0,00011	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0011	0,0003	0,0010	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0003
Fer	Fe	mg/l	0,036	0,038	<0,007	<0,007	0,008	<0,007	<0,007	0,007	<0,007	<0,007	0,019
Potassium	K	mg/l	0,509	0,426	0,356	0,403	0,592	0,356	0,394	0,425	0,391	0,344	0,28
Lithium	Li	mg/l	0,0253	0,0165	0,0133	0,0138	0,0268	0,0150	0,0164	0,0133	0,0153	0,0135	0,0134
Magnésium	Mg	mg/l	0,556	0,505	0,374	0,404	1,02	0,501	0,589	0,600	0,615	0,476	0,447
Manganese	Mn	mg/l	0,00201	0,00198	0,00642	0,00156	0,00151	0,00136	0,00146	0,00158	0,00125	0,00134	0,00132
Molybdène	Mo	mg/l	0,00011	0,00027	0,00029	0,00079	0,00044	0,00008	0,00025	0,00053	0,00054	0,00033	0,00078
Sodium	Na	mg/l	0,55	0,41	0,33	0,36	0,58	0,30	0,31	0,35	0,32	0,23	0,22
Nickel	Ni	mg/l	0,0002	0,0100	0,0021	0,0002	0,0003	0,0002	0,0004	0,0003	0,0004	0,0003	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00026	0,00034	<0,00009	<0,00009	<0,00009	0,00043	0,00009
Antimoine	Sb	mg/l	0,0060	0,0052	0,0047	0,0037	0,0075	0,0050	0,0049	0,0069	0,0047	0,0045	0,004
Sélénium	Se	mg/l	0,00021	0,00021	0,00021	0,00018	0,00041	0,00022	0,00025	0,00027	0,00025	0,00022	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	0,00014	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0138	0,0128	0,01233	0,0125	0,0198	0,0126	0,0140	0,0143	0,0126	0,0118	0,0115
Titane	Ti	mg/l	0,00194	0,00031	0,00020	0,00017	0,00017	0,00024	0,00019	0,00029	0,00019	0,00009	0,00018
Thallium	Th	mg/l	0,000013	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000017	<0,000005
Uranium	U	mg/l	0,000031	0,00149	0,000127	0,000082	0,000120	0,000086	0,00345	0,000230	0,000134	0,00209	0,00131
Vanadium	V	mg/l	0,00050	0,00042	0,00039	0,00032	0,00037	0,00036	0,00040	0,00059	0,00042	0,00044	0,0004
Tungstène	W	mg/l	0,00029	0,00010	0,00010	0,00008	0,00017	0,00008	0,00011	0,00061	0,00011	0,00009	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00003	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0096	0,0080		0,0093		0,0074	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0083	0,0057		0,0063		0,0050	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	916	926	1007	924	943	944	932	935	913	946	980
pH	pH	No unit	6,79	6,7	6,82	6,74	6,6	6,81	6,81	6,8	6,6	6,95	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	4	3	2	2	2	2	3	3	3
Conductivité	Conductivité	µS/cm	24	24	14	27	27	26	23	24	31	28	32
Acidité	Acidité	$mgCaCO_3/l$	<2,0	3	<2,0	3	3	<2,0	2	<2,0	3	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	6	6	9	8	8	7	7	9	9	8
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,03	0,023	0,03	0,025	0,022	0,026	0,017	0,025	0,023	0,023
Arsenic	As	mg/l	0,0051	0,0057	0,0053	0,0088	0,0041	0,0041	0,0042	0,0039	0,0038	0,0040	0,0044
Baryum	Ba	mg/l	0,00019	0,00019	0,00018	0,00029	0,0002	0,00019	0,00019	0,00027	0,00032	0,00025	0,00015
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000011	<0,000007	<0,000007
Bore	B	mg/l	0,003	0,003	0,003	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,003
Bismuth	Bi	mg/l	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,29	3,33	2,97	3,72	3,64	3,85	3,65	2,84	4,36	4,19	3,72
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000006	<0,000003	0,000003	0,000004	0,000003	<0,000003
Cobalt	Co	mg/l	0,000079	0,000073	0,000075	0,000087	0,000082	0,000084	0,000083	0,000071	0,000103	0,000097	0,000086
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00022	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0012	0,0007	<0,0011	<0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,013	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,310	0,292	0,23	0,274	0,265	0,247	0,247	0,162	0,264	0,225	0,189
Lithium	Li	mg/l	0,0117	0,0114	0,0103	0,0091	0,0089	0,0083	0,0099	0,0071	0,0111	0,0094	0,0084
Magnésium	Mg	mg/l	0,425	0,425	0,38	0,407	0,388	0,399	0,348	0,274	0,429	0,384	0,334
Manganese	Mn	mg/l	0,00117	0,00098	0,00177	0,00178	0,00114	0,00125	0,00117	0,00132	0,00151	0,00131	0,00106
Molybdène	Mo	mg/l	0,00019	0,00027	0,00024	0,0003	0,00013	0,00011	0,00023	0,00059	0,00014	0,00027	0,00082
Sodium	Na	mg/l	0,21	0,2	0,15	0,21	0,2	0,17	0,18	0,1	0,2	0,14	0,15
Nickel	Ni	mg/l	0,0002	0,0002	0,0001	0,0003	0,0003	0,0002	0,0003	0,0003	0,0003	0,0003	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00042	0,00015	<0,00009	<0,00009	<0,00009	0,00013	<0,00009
Antimoine	Sb	mg/l	0,0037	0,0039	0,0053	0,0044	0,003	0,0035	0,0029	0,0032	0,0027	0,0036	0,0043
Sélénium	Se	mg/l	0,00019	0,00022	0,00018	0,00023	0,00022	0,00017	0,00016	0,00016	0,00023	0,00014	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0117	0,0115	0,0105	0,0122	0,0117	0,0120	0,0102	0,00948	0,0119	0,0118	0,0115
Titane	Ti	mg/l	0,00013	<0,00013	0,00014	0,00026	0,00011	0,00019	<0,00007	0,00009	0,00018	0,00013	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000115	0,000068	0,0003	0,000101	0,000918	0,000497	0,000984	0,000112	0,00189	0,00377	0,000202
Vanadium	V	mg/l	0,00037	0,00039	0,00041	0,00044	0,0003	0,00030	0,00035	0,00022	0,00029	0,00030	0,00034
Tungstène	W	mg/l	0,00009	0,00006	0,00008	0,00005	0,00005	0,00006	0,00005	0,00004	0,00009	0,00004	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0076					0,007		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0042					0,0044		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	927	970	971	904	962	949	964	899	941	970	920
pH	pH	No unit	6,81	6,54	6,79	6,72	6,75	6,60	6,76	6,59	6,68	6,67	6,78
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	3	2	3	2	2	2	3
Conductivité	Conductivité	µS/cm	25	31	34	40	32	33	36	32	31	25	32
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	8	10	10	13	9	12	12	11	11	8	10
Chlore	Cl^-	mg/l			<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,022	0,022	0,023	0,025	0,025	0,026	0,028	0,027	0,029	0,020	0,020
Arsenic	As	mg/l	0,0035	0,0031	0,0043	0,0094	0,0034	0,0036	0,0033	0,0029	0,0031	0,0029	0,0035
Baryum	Ba	mg/l	0,00021	0,00023	0,00022	0,00027	0,00026	0,00018	0,00027	0,00041	0,00021	0,00016	0,00019
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,81	4,01	4,56	5,38	4,36	4,84	5,23	5,24	4,45	3,50	4,24
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000077	0,000191	0,000098	0,000089	0,000086	0,000104	0,000160	0,000095	0,000118	0,000099	0,000126
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,008	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,160	0,153	0,165	0,200	0,180	0,175	0,190	0,186	0,162	0,128	0,141
Lithium	Li	mg/l	0,0071	0,0063	0,0067	0,0081	0,0124	0,0072	0,0064	0,0064	0,0057	0,0051	0,0061
Magnésium	Mg	mg/l	0,301	0,284	0,303	0,380	0,295	0,298	0,303	0,290	0,226	0,178	0,228
Manganese	Mn	mg/l	0,00108	0,00094	0,00119	0,00123	0,00097	0,00094	0,00108	0,00147	0,00123	0,00115	0,00136
Molybdène	Mo	mg/l	0,00021	0,00125	0,00033	0,00013	0,00008	0,00085	0,00056	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,11	0,18	0,12	0,18	0,15	0,11	0,11	0,18	0,12	0,10	0,11
Nickel	Ni	mg/l	0,0002	0,0006	0,0004	0,0002	0,0004	0,0004	0,0007	0,0005	0,0005	0,0004	0,0004
Plomb	Pb	mg/l	0,00014	<0,00009	<0,00009	<0,00009	0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00013
Antimoine	Sb	mg/l	0,0032	0,0028	0,0031	0,0034	0,0029	0,0027	0,0025	0,0024	0,0022	0,0020	0,0024
Sélénium	Se	mg/l	0,00014	0,00015	0,00020	0,00020	0,00013	0,00016	0,00014	0,00017	0,00014	0,00010	0,00019
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0107	0,0108	0,0116	0,0121	0,0100	0,0112	0,0115	0,01057	0,00990	0,00759	0,00944
Titane	Ti	mg/l	<0,00007	0,00010	<0,00007	0,00011	0,00007	0,00010	0,00016	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005
Uranium	U	mg/l	0,000255	0,000589	0,00344	0,000360	0,000142	0,00261	0,00127	0,000175	0,001940		0,008060
Vanadium	V	mg/l	0,00029	0,00028	0,00030	0,00030	0,00025	0,00031	0,00028	0,00025	0,00025		0,00022
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00004	0,00003	0,00003	<0,0002	<0,0002	<0,0002		<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00002			
Césium (total)	Cs	mg/l			0,0059					0,0062			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0035					0,0032			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	922	971	942	947	905	975	951	978	952	929	923
pH	pH	No unit	6,67	6,67	6,82	6,79	6,71	6,68	6,66	6,61	6,81	6,81	6,85
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	3	2	2	2	2	2	2	2	3
Conductivité	Conductivité	µS/cm	30	31	34	28	39	28	36	30	27	28	30
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2	<2	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	9	10	11	10	15	8	12	10	8	10	10
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,020	0,017	0,019	0,025	0,020	0,021	0,017	0,020	0,021	0,022
Arsenic	As	mg/l	0,0027	0,0026	0,0031	0,0029	0,0027	0,0027	0,0024	0,0023	0,0023	0,0024	0,0023
Baryum	Ba	mg/l	0,00018	0,00023	0,00017	0,00019	0,00024	0,00017	0,00032	0,00017	0,00021	0,00018	0,00020
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,99	4,64	4,12	4,28	5,40	3,99	5,33	4,37	4,50	4,60	4,98
Cadmium	Cd	mg/l	<0,000003	<0,000006	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	<0,000021	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000103	0,000089	0,000086	0,000098	0,000101	0,000082	0,000115	0,000101	0,000128	0,000129	0,000135
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,148	0,151	0,120	0,134	0,153	0,120	0,142	0,125	0,130	0,137	0,140
Lithium	Li	mg/l	0,0060	0,0051	0,0052	0,0050	0,0052	0,0043	0,0049	0,0044	0,0048	0,0052	0,0049
Magnésium	Mg	mg/l	0,233	0,258	0,224	0,215	0,293	0,197	0,248	0,196	0,188	0,209	0,221
Manganese	Mn	mg/l	0,00260	0,00095	0,00083	0,00093	0,00091	0,00077	0,00102	0,00092	0,00141	0,00136	0,00149
Molybdène	Mo	mg/l	<0,0007	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,11	0,11	0,09	0,12	0,10	0,10	0,10	0,09	0,12	0,10
Nickel	Ni	mg/l	0,0004	0,0004	0,0003	0,0004	0,0004	0,0003	0,0007	0,0003	0,0004	0,0004	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00031	<0,00009	<0,00009	<0,00011	<0,00018	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0021	0,0023	0,0022	0,0020	0,0019	0,0019	0,0017	0,0016	0,0016	0,0016	0,0017
Sélénium	Se	mg/l	0,00014	0,00014	0,00015	0,00013	0,00018	0,00014	0,00015	0,00011	0,00011	0,00009	0,00013
Etain	Sn	mg/l	<0,00006	<0,00006	<0,0001	<0,00006	<0,00008	<0,00007	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00918	0,00936	0,00840	0,00797	0,00986	0,00750	0,01007	0,00766	0,00773	0,00761	0,00850
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000142	0,000119	0,000092	0,000113	0,000114	0,000113	0,000084	0,000063	0,000107	0,000067	0,000069
Vanadium	V	mg/l	0,00018	0,00023	0,00021	0,00022	0,00025	0,00021	0,00024	0,00019	0,00020	0,00019	0,00021
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0060					0,0058				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0031					0,0030				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	994	993	942	930	944	951	949	932	927	934	928
pH	pH	No unit	6,60	6,96	6,74	6,81	6,65	6,62	6,64	6,49	6,83	6,38	6,75
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	2	2	2	3	2		2	
Conductivité	Conductivité	µS/cm	31	32	28	33	32	31	35	32	35	31	38
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	10	10	9	10	12	10	10	9		10	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,019	0,017	0,014	0,019	0,020	0,019	0,018	0,017		0,018	
Arsenic	As	mg/l	0,0021	0,0021	0,0017	0,0020	0,0019	0,0023	0,0019	0,0018		0,0018	
Baryum	Ba	mg/l	0,00020	0,00018	0,00017	0,00019	0,00021	0,00021	0,00029	0,00021		0,00017	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	4,68	4,58	4,89	5,22	5,46	5,11	4,76	4,68		4,87	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000013	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000138	0,000104	0,000116	0,000117	0,000114	0,000127	0,000131	0,000132		0,000138	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,0001	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,128	0,126	0,123	0,139	0,132	0,117	0,122	0,117		0,134	
Lithium	Li	mg/l	0,0047	0,0041	0,0039	0,0045	0,0043	0,0041	0,0042	0,0040		0,0037	
Magnésium	Mg	mg/l	0,209	0,199	0,196	0,218	0,215	0,205	0,188	0,182		0,192	
Manganese	Mn	mg/l	0,00149	0,00117	0,00141	0,00145	0,00131	0,00166	0,00216	0,00165		0,00190	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0009	<0,0007	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,12	0,09	0,11	0,09	0,09	0,09	0,08	0,09		0,12	
Nickel	Ni	mg/l	0,0003	0,0010	0,0005	0,0005	0,0005	0,0006	0,0005	0,0005		0,0004	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00074	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0015	0,0020	0,0013	0,0016	0,0015	0,0017	0,0015	0,0015		0,0013	
Sélénium	Se	mg/l	0,00011	0,00015	0,00011	0,00012	0,00009	0,00011	0,00010	0,00009		0,00011	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00818	0,00812	0,00678	0,00819	0,00860	0,00819	0,00775	0,00736		0,00758	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000078	0,000110	0,000062	0,000056	0,000070	0,000057	0,000060	0,000055		0,000049	
Vanadium	V	mg/l	0,00018	0,00021	0,00014	0,00019	0,00017	0,00016	0,00016	0,00014		0,00016	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00002					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0052					0,0052				0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00002					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0029					0,0027				0,0029	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	931	939	940	924	934	914	934	941	947	915	942
pH	pH	No unit	6,77	6,83	6,55	6,48	6,78	6,62	6,67	6,58	6,81	6,60	6,77
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				3				2
Conductivité	Conductivité	µS/cm	35	33	26	31	36	32	28	31	30	40	32
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			8				9				9
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,016				0,014				0,015
Arsenic	As	mg/l			0,0016				0,0013				0,0013
Baryum	Ba	mg/l			0,00021				0,00028				0,00024
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,49				4,81				4,85
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000123				0,000126				0,000148
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,120				0,109				0,098
Lithium	Li	mg/l			0,0037				0,0032				0,0033
Magnésium	Mg	mg/l			0,164				0,161				0,162
Manganese	Mn	mg/l			0,00175				0,00144				0,00148
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,08				0,12
Nickel	Ni	mg/l			0,0005				0,0004				0,0004
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0014				0,0012				0,0011
Sélénium	Se	mg/l			0,00011				0,00010				0,00007
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00662				0,00614				0,00656
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000042				0,000044				0,000043
Vanadium	V	mg/l			0,00016				0,00012				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0050				0,0051
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00002
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0032				0,0026				0,0032
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	941	955	944	953	936	938	930	942	915	956	966
pH	pH	No unit	6,64	6,69	6,69	6,33	6,72	6,72	6,62	6,58	6,67	6,72	6,75
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	36	32	33	31	37	37	30	30	37	33	34
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				11				11			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,013				0,008			
Arsenic	As	mg/l				0,0010				0,0009			
Baryum	Ba	mg/l				0,00018				0,00020			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,98				4,77			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000140				0,000289			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,087				0,093			
Lithium	Li	mg/l				0,0033				0,0034			
Magnésium	Mg	mg/l				0,150				0,144			
Manganese	Mn	mg/l				0,00165				0,00289			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,09				0,07			
Nickel	Ni	mg/l				0,0004				0,0007			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0010				0,001			
Sélénium	Se	mg/l				0,00009				0,00010			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00662				0,00636			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000031				0,000017			
Vanadium	V	mg/l				0,00012				0,00010			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0043				0,0048			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0020				0,0022			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	964	953
pH	pH	No unit	6,37	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	30	37
Acidité	Acidité	$mgCaCO_3/l$	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	11	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,011	
Arsenic	As	mg/l	0,0011	
Baryum	Ba	mg/l	0,00021	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	5,04	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000563	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,099	
Lithium	Li	mg/l	0,0036	
Magnésium	Mg	mg/l	0,163	
Manganese	Mn	mg/l	0,00447	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0017	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00009	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00656	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000011	
Vanadium	V	mg/l	0,00010	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00002	
Césium (total)	Cs	mg/l	0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0024	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-2

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	948	1005	976	947	940	938	970	1004	947	926	921
pH	pH	No unit	6,52	6,27	6,49	6,29	6,51	6,20	6,39	6,78	6,57	6,62	6,42
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				<2,0				<2,0
Conductivité	Conductivité	µS/cm	50	41	39	40	41	46	36	41	42	42	34
Acidité	Acidité	$mgCaCO_3/l$			<2,0				3				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			16				14				14
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,013				0,009				0,010
Arsenic	As	mg/l			0,0010				0,0009				0,0008
Baryum	Ba	mg/l			0,00034				0,00021				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			6,18				5,33				5,28
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000352				0,00056				0,000316
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,100				0,097				0,096
Lithium	Li	mg/l			0,0031				0,0035				0,0028
Magnésium	Mg	mg/l			0,204				0,184				0,185
Manganese	Mn	mg/l			0,00331				0,00402				0,00247
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,08				0,08
Nickel	Ni	mg/l			0,0012				0,0016				0,0010
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00011				0,00010				0,00009
Etain	Sn	mg/l			0,00008				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00759				0,00615				0,00547
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000029				0,000032				0,000019
Vanadium	V	mg/l			0,00011				0,00007				0,00007
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00002				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0052				0,0060
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00002				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0026				0,0024				0,0039
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	816	927	932	1007	922	1005	951	979	903	885	897
pH	pH	No unit	8,33	8,02	7,25	7,59	7,35	7,10	6,89	7,30	7,28	7,46	7,25
Alkalinité	Alkalinité	$mgCaCO_3/l$	12	9	7	8	7	7	5	7	7	6	6
Conductivité	Conductivité	µS/cm	36	40	37	65	38	45	34	33	28	31	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,05	<0,16	<0,11	<0,14	<0,12	<0,09	<0,11	<0,13	<0,08	<0,08
Sulfate	SO_4^{2-}	mg/l	3	6	8	13	10	8	7	6	6	6	6
Chlore	Cl^-	mg/l	3	3	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,118	0,042	0,029	0,020	0,020	0,012	0,021	0,018	0,024	0,028	0,027
Arsenic	As	mg/l	0,0461	0,3240	0,5450	0,5060	0,5820	0,5120	0,4220	0,4530	0,4490	0,5210	0,5360
Baryum	Ba	mg/l	0,00039	0,00048	0,00049	0,00048	0,00049	0,00042	0,00037	0,00037	0,00040	0,00037	0,00143
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,010	0,025	0,025	0,024	0,020	0,016	0,010	0,011	0,008	0,007	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00003	<0,00001	<0,00001	<0,00001	<0,00003	<0,00001	<0,00001
Calcium	Ca	mg/l	4,25	3,78	3,72	4,44	4,32	4,56	3,64	4,09	3,96	3,85	3,96
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000038
Cobalt	Co	mg/l	0,000043	0,000100	0,000142	0,000201	0,000201	0,000465	0,000193	0,000405	0,000204	0,000189	0,000155
Chrome	Cr	mg/l	0,00017	0,00038	<0,00009	0,00008	<0,00008	<0,00008	<0,00012	<0,00008	<0,00008	0,00015	<0,00008
Cuivre	Cu	mg/l	0,0006	0,0004	<0,0002	<0,0003	0,0005	0,0017	<0,0002	<0,0002	<0,0002	<0,0002	0,0007
Fer	Fe	mg/l	<0,007	0,008	0,008	0,007	<0,007	0,016	0,007	0,007	<0,007	0,007	0,035
Potassium	K	mg/l	0,80	0,63	0,60	0,709	0,541	0,481	0,338	0,347	0,313	0,287	0,324
Lithium	Li	mg/l	0,1030	0,1700	0,1030	0,2000	0,1090	0,0783	0,0580	0,0461	0,0411	0,0362	0,0401
Magnésium	Mg	mg/l	0,346	0,577	0,601	1,080	0,846	0,987	0,729	0,835	0,676	0,628	0,736
Manganese	Mn	mg/l	0,00079	0,00355	0,00341	0,00424	0,00365	0,00659	0,00331	0,00471	0,00305	0,00272	0,00227
Molybdène	Mo	mg/l	0,00018	0,00026	0,00183	0,00077	0,00025	0,00015	0,00118	0,00307	0,00026	0,00006	0,00005
Sodium	Na	mg/l	2,00	2,89	1,80	2,68	1,29	0,98	0,56	0,52	0,40	0,31	0,34
Nickel	Ni	mg/l	0,0006	0,0018	0,0021	0,0033	0,0028	0,0053	0,0025	0,0046	0,0021	0,0017	0,0016
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00026
Antimoine	Sb	mg/l	0,0300	0,2430	0,2320	0,2300	0,1730	0,2440	0,1560	0,2100	0,1210	0,1340	0,1340
Sélénium	Se	mg/l	0,00014	0,00027	0,00030	0,00008	0,00019	0,00017	0,00013	0,00015	0,00014	0,00013	0,00011
Etain	Sn	mg/l	0,00138	0,00062	0,00020	0,00010	0,00012	0,00010	0,00011	0,00006	<0,00006	<0,00006	0,00008
Strontium	Sr	mg/l	0,0107	0,0146	0,01716	0,0198	0,01920	0,0159	0,0135	0,01334	0,0128	0,01302	0,0128
Titane	Ti	mg/l	0,00015	0,00042	0,00019	0,00026	0,00023	<0,00009	0,00032	0,00022	0,00022	0,00026	0,00027
Thallium	Th	mg/l	0,000018	<0,000005	0,000011	<0,000005	<0,000008	0,000012	<0,000006	<0,000006	<0,000005	<0,000006	<0,000005
Uranium	U	mg/l	0,004960	0,000142	0,003907	0,000191	0,003910	0,000091	0,000148	0,000300	0,00162	0,000094	0,000031
Vanadium	V	mg/l	0,00100	0,00143	0,00131	0,00101	0,00112	0,00095	0,00078	0,00091	0,00085	0,00102	0,00100
Tungstène	W	mg/l	0,00119	0,00154	0,00124	0,00311	0,00082	0,00058	0,00086	0,00042	0,00030	0,00023	0,00028
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,004
Gold (total)	Au	mg/l	0,00002	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0344	0,0270	0,0260	0,0300	0,0249	0,0199	0,0181	0,0188	0,0179	0,0159	0,0158
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0222	0,0139	0,0127	0,0141	0,0113	0,0104	0,0074	0,0088	0,0069	0,0071	0,0074
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	914	942	945	937	895	936	909	899	884	918	905
pH	pH	No unit	7,25	7,31	7,18	7,02	6,76	7,19	7,14	7,33	7,39	7,11	6,9
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	7	6	4	6	5	4	6	4	4	5
Conductivité	Conductivité	µS/cm	22	24	23	20	24	27	23	24	19	20	21
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,08		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,06	<0,06	<0,06	<0,06	<0,08	<0,08	<0,06	<0,12	<0,07	<0,04	<0,05
Sulfate	SO_4^{2-}	mg/l	4	3	4	3	4	4	4	4	4	<3,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l	0,00005	0,00005	0,00005	0,00005	<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l					<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,050	0,023	0,021	0,023	0,019	0,017	0,021	0,026	0,029	0,023	0,023
Arsenic	As	mg/l	0,4110	0,4060	0,3590	0,2730	0,3790	0,3230	0,3570	0,4670	0,3100	0,2780	0,254
Baryum	Ba	mg/l	0,00038	0,00029	0,00027	0,00026	0,00025	0,00027	0,00027	0,00039	0,00032	0,00027	0,00028
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,004	0,004	0,004	0,004	0,003	0,003	0,006	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	3,05	2,76	2,90	3,38	2,93	3,34	3,78	3,04	2,71	2,93
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000004	<0,000003
Cobalt	Co	mg/l	0,000309	0,000176	0,000131	0,000139	0,000133	0,000133	0,000163	0,000144	0,000162	0,000187	0,000147
Chrome	Cr	mg/l	0,00039	0,00170	0,00008	<0,00008	<0,00008	0,00011	<0,0001	0,00011	<0,00011	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	0,0002	0,0005	0,0002	<0,0002	<0,0002	0,0003	<0,0004	<0,0002
Fer	Fe	mg/l	0,040	0,154	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,012	<0,007	0,008
Potassium	K	mg/l	0,227	0,201	0,156	0,193	0,273	0,176	0,196	0,225	0,192	0,169	0,132
Lithium	Li	mg/l	0,0305	0,0203	0,0174	0,0157	0,0300	0,0172	0,0200	0,0196	0,0172	0,0151	0,0151
Magnésium	Mg	mg/l	0,529	0,463	0,356	0,363	0,62	0,393	0,449	0,471	0,415	0,345	0,328
Manganese	Mn	mg/l	0,00306	0,00402	0,00200	0,00217	0,00139	0,00195	0,00208	0,00180	0,00165	0,00190	0,00168
Molybdène	Mo	mg/l	0,00004	0,00019	0,00046	0,00014	0,00006	0,00004	0,00020	0,00044	0,00023	0,00104	0,00019
Sodium	Na	mg/l	0,20	0,16	0,13	0,16	0,22	0,12	0,11	0,18	0,14	0,09	0,1
Nickel	Ni	mg/l	0,0015	0,0081	0,0011	0,0011	0,0009	0,0011	0,0010	0,0012	0,0010	0,0012	0,001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00035	0,00009
Antimoine	Sb	mg/l	0,1000	0,0872	0,0853	0,0587	0,0903	0,0872	0,0818	0,1100	0,0571	0,0663	0,0586
Sélénium	Se	mg/l	0,00013	0,00010	0,00009	0,00008	0,00013	0,00009	0,00013	0,00011	0,00008	0,00009	0,00006
Etain	Sn	mg/l	<0,00006	<0,00008	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00008	<0,00006
Strontium	Sr	mg/l	0,0092	0,0088	0,00816	0,0079	0,0105	0,0083	0,0096	0,0099	0,0083	0,0074	0,00738
Titane	Ti	mg/l	0,00147	0,00022	0,00027	0,00016	0,00010	0,00007	0,00016	0,00014	0,00037	0,00014	0,00011
Thallium	Th	mg/l	0,000017	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000006	<0,000006	0,000006	<0,000005
Uranium	U	mg/l	0,000013	0,00004	0,000053	0,000026	0,000228	0,000042	0,00023	0,000369	0,000054	0,00191	0,000045
Vanadium	V	mg/l	0,00099	0,00088	0,00074	0,00066	0,00076	0,00073	0,00079	0,00105	0,00073	0,00072	0,00065
Tungstène	W	mg/l	0,00025	0,00017	0,00015	0,00010	0,00021	0,00014	0,00025	0,00141	0,00011	0,00016	0,0001
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0139	0,0124		0,0144		0,0109	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0072	0,0051		0,0058		0,0045	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	906	906	989	935	909	928	919	928	898	927	947
pH	pH	No unit	7,01	6,96	7,01	6,82	6,72	7,00	7,03	7	6,75	7,08	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	4	3	3	4	4	4	4	5
Conductivité	Conductivité	µS/cm	19	19	21	19	17	17	17	17	24	21	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,14		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,07	<0,05	<0,05	<0,08	<0,09	<0,08	<0,05	<0,04	<0,03	<0,04	<0,03
Sulfate	SO_4^{2-}	mg/l	4	3	4	4	4	4	3	3	3	4	3
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,028	0,015	0,023	0,023	0,019	0,029	0,021	0,027	0,021	0,021
Arsenic	As	mg/l	0,2710	0,248	0,247	0,203	0,207	0,2010	0,211	0,203	0,152	0,2120	0,1930
Baryum	Ba	mg/l	0,00021	0,00016	0,00021	0,00015	0,00019	0,00020	0,00021	0,00018	0,00027	0,00019	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000013	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	2,76	2,77	2,81	2,8	2,82	3,04	2,48	2,55	3,06	2,67
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000142	0,000136	0,000217	0,000235	0,000151	0,000197	0,000168	0,000204	0,000188	0,000190	0,000248
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00023	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0005	0,0004	<0,0005	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,157	0,136	0,111	0,128	0,135	0,117	0,117	0,087	0,108	0,115	0,091
Lithium	Li	mg/l	0,0126	0,0127	0,0119	0,01	0,0094	0,0096	0,0105	0,0077	0,0099	0,0109	0,0100
Magnésium	Mg	mg/l	0,313	0,285	0,259	0,269	0,235	0,248	0,237	0,195	0,227	0,240	0,196
Manganese	Mn	mg/l	0,00176	0,00131	0,00201	0,002	0,00145	0,00198	0,0019	0,00172	0,00189	0,00135	0,00142
Molybdène	Mo	mg/l	0,00036	0,00005	0,00059	0,00019	0,00009	0,00004	0,00016	0,00004	0,00007	0,00006	0,00678
Sodium	Na	mg/l	0,08	0,08	0,07	0,13	0,11	0,08	0,12	0,04	0,08	0,07	0,08
Nickel	Ni	mg/l	0,0010	0,001	0,0013	0,0013	0,0011	0,0013	0,0011	0,0013	0,0007	0,0012	0,0015
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0571	0,0558	0,084	0,055	0,0407	0,0553	0,0454	0,0463	0,0246	0,0486	0,0474
Sélénium	Se	mg/l	0,00008	0,00008	0,00006	0,00004	0,00008	0,00004	0,00006	0,00005	0,00009	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0078	0,00677	0,00642	0,00695	0,00628	0,0063	0,00609	0,00602	0,00601	0,0065	0,0060
Titane	Ti	mg/l	0,00020	<0,00014	0,00007	0,00015	0,00011	0,00009	<0,00013	0,00007	0,00015	0,00008	<0,00008
Thallium	Th	mg/l	0,000006	<0,000005	<0,000007	<0,000005	<0,000005	0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000319	0,000025	0,000727	0,000032	0,000527	0,000029	0,000028	0,00049	0,000297	0,00004	0,007440
Vanadium	V	mg/l	0,00070	0,00061	0,00058	0,00061	0,00048	0,00052	0,00056	0,00053	0,00045	0,00056	0,00051
Tungstène	W	mg/l	0,00010	0,00008	0,00012	0,00006	0,00006	0,00007	0,00008	0,00005	0,00005	0,00006	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0102					0,0087		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0036					0,0032		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	908	946	914	905	942	920	941	884	948	948	913
pH	pH	No unit	7,00	6,75	7,02	7,03	7,03	6,78	6,97	6,97	6,88	6,99	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	5	4	5	3	4	3	4	4	4
Conductivité	Conductivité	µS/cm	17	21	22	23	20	20	23	18	19	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,07			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,04	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	5	4	4	4	4	5	3	4	3	4
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,020	0,024	0,028	0,025	0,029	0,035	0,033	0,027	0,021	0,023
Arsenic	As	mg/l	0,1730	0,1730	0,1780	0,1870	0,1570	0,1690	0,1780	0,1540	0,1570	0,1490	0,1690
Baryum	Ba	mg/l	0,00019	0,00017	0,00026	0,00038	0,00018	0,00015	0,00026	0,00035	0,00016	0,00030	0,00069
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,003
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,70	2,79	3,25	3,42	2,93	3,23	3,58	3,11	2,82	2,36	2,83
Cadmium	Cd	mg/l	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000229	0,000218	0,000243	0,000185	0,000199	0,000243	0,000247	0,000178	0,000175	0,000216	0,000198
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,0001	<0,00008	<0,00027	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0004	<0,0002	0,0005	<0,0002	<0,002	<0,0023	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,01	0,008	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,076	0,087	0,105	0,097	0,095	0,111	0,107	0,079	0,054	0,078
Lithium	Li	mg/l	0,0081	0,0084	0,0082	0,0097	0,0195	0,0091	0,0091	0,0076	0,0067	0,0050	0,0065
Magnésium	Mg	mg/l	0,188	0,181	0,192	0,203	0,187	0,193	0,196	0,170	0,140	0,114	0,140
Manganese	Mn	mg/l	0,00131	0,00143	0,00167	0,00126	0,00119	0,00129	0,00173	0,00128	0,00113	0,00115	0,00119
Molybdène	Mo	mg/l	0,01710	0,01150	0,00016	0,00010	0,00023	0,00493	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,07	0,06	0,06	0,12	0,12	0,06	0,05	0,11	0,06	0,05	0,07
Nickel	Ni	mg/l	0,0014	0,0017	0,0015	0,0010	0,0013	0,0014	0,0015	0,0012	0,0012	0,0013	0,0014
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00057	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0448	0,0443	0,0450	0,0396	0,0432	0,0431	0,0437	0,0344	0,0343	0,0315	0,0354
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0058	0,0059	0,0062	0,0060	0,0056	0,0058	0,0064	0,00534	0,00473	0,00389	0,00527
Titane	Ti	mg/l	<0,00007	0,00010	<0,00021	0,00025	0,00020	0,00021	0,00034	0,0002	0,0001	<0,00016	<0,00012
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,001760	0,000899	0,00002	0,000055	0,000182	0,00002	0,00003	0,000050	0,000168	0,001730	0,000032
Vanadium	V	mg/l	0,00045	0,00041	0,00052	0,00049	0,00039	0,00045	0,00050	0,00044	0,00045	0,00041	0,00041
Tungstène	W	mg/l	0,00007	0,00006	0,00006	0,00006	0,00004	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0083					0,0082			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0030					0,0029			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	916	934	926	953	912	949	936	950	946	924	937
pH	pH	No unit	6,92	6,96	7,08	7,01	6,92	6,90	6,89	6,81	7,03	6,95	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	3	4	4	3	3	3	4	3	4
Conductivité	Conductivité	µS/cm	20	18	18	16	19	17	21	18	16	16	16
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	4	4	4	5	3	4	3	3	4	4
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,026	0,021	0,018	0,016	0,078	0,022	0,022	0,019	0,021	0,027	0,022
Arsenic	As	mg/l	0,1060	0,1650	0,1490	0,1650	0,1700	0,1440	0,1500	0,1320	0,1270	0,1350	0,1400
Baryum	Ba	mg/l	0,00012	0,00017	0,00015	0,00011	0,00095	0,00015	0,00017	0,00019	0,00014	0,00017	0,00013
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,13	2,98	2,67	2,55	3,49	2,79	3,21	2,70	2,90	2,98	2,80
Cadmium	Cd	mg/l	<0,00001	<0,000003	<0,000003	<0,000003	<0,000005	<0,000005	<0,000003	<0,000008	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000281	0,000154	0,000176	0,000164	0,000175	0,000212	0,000177	0,000193	0,000213	0,000189	0,000161
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,028	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,071	0,085	0,062	0,063	0,070	0,067	0,077	0,078	0,051	0,068	0,063
Lithium	Li	mg/l	0,0061	0,0069	0,0067	0,0054	0,0058	0,0054	0,0062	0,0054	0,0051	0,0058	0,0052
Magnésium	Mg	mg/l	0,136	0,158	0,137	0,121	0,162	0,134	0,149	0,132	0,116	0,130	0,120
Manganese	Mn	mg/l	0,00146	0,00078	0,00098	0,00076	0,00293	0,00097	0,00090	0,00090	0,00094	0,00120	0,00089
Molybdène	Mo	mg/l	<0,0229	<0,0004	<0,0054	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,05	0,05	0,04	0,04	0,09	0,06	0,04	0,05	0,04	0,07	0,04
Nickel	Ni	mg/l	0,0010	0,0011	0,0012	0,0012	0,0011	0,0013	0,0012	0,0013	0,0014	0,0013	0,0011
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00023	<0,00009	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0185	0,0371	0,0344	0,0374	0,0297	0,0307	0,0300	0,0298	0,0273	0,0251	0,0276
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00015	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00446	0,00489	0,00448	0,00371	0,00517	0,00414	0,00482	0,00406	0,00381	0,00392	0,00372
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,00013	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000029	0,000045	0,000017	0,000056	0,000068	0,000036	0,000012	0,000017	0,000018	0,000012
Vanadium	V	mg/l	0,00032	0,00041	0,00035	0,00034	0,00049	0,00038	0,00037	0,00031	0,00038	0,00036	0,00037
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,006	<0,002	<0,006	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0080					0,0071				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0028					0,0026				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	914	987	936	948	951	948	959	914	911	941	934
pH	pH	No unit	6,73	7,16	7,11	7,11	7,05	7,18	7,19	6,98	7,05	6,79	7,01
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	3	4	4	5	4	3		4	
Conductivité	Conductivité	µS/cm	19	19	16	18	17	20	18	38	19	19	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	4	4	3	3	4	4	4	3		4	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,025	0,015	0,018	0,022	0,021	0,021	0,023	0,024		0,026	
Arsenic	As	mg/l	0,1470	0,1460	0,1270	0,1490	0,1490	0,1350	0,1370	0,1390		0,1430	
Baryum	Ba	mg/l	0,00016	0,00015	0,00013	0,00018	0,00020	0,00017	0,00019	0,00018		0,00013	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	3,08	2,76	2,76	3,26	3,18	2,99	2,83	2,90		3,25	
Cadmium	Cd	mg/l	<0,000003	<0,00001	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005	<0,000003		<0,000012	
Cobalt	Co	mg/l	0,000155	0,000191	0,000169	0,000179	0,000201	0,000170	0,000162	0,000169		0,000147	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00013	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,066	0,058	0,063	0,073	0,061	0,053	0,057	0,057		0,074	
Lithium	Li	mg/l	0,0058	0,0053	0,0045	0,0058	0,0052	0,0048	0,0050	0,0050		0,0049	
Magnésium	Mg	mg/l	0,125	0,115	0,118	0,133	0,127	0,124	0,112	0,117		0,124	
Manganese	Mn	mg/l	0,00089	0,00091	0,00099	0,00096	0,00095	0,00099	0,00121	0,00107		0,00096	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0007	<0,0004	<0,0004	<0,0004		<0,0318	
Sodium	Na	mg/l	0,07	0,04	0,06	0,04	0,05	0,03	0,03	0,05		0,09	
Nickel	Ni	mg/l	0,0010	0,0015	0,0012	0,0013	0,0014	0,0014	0,0012	0,0012		0,0010	
Plomb	Pb	mg/l	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0278	0,0360	0,0245	0,0327	0,0299	0,0258	0,0255	0,0255		0,0278	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00405	0,00355	0,00310	0,00388	0,00392	0,00385	0,00355	0,00357		0,00378	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00011	<0,00014	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000008		<0,000005	
Uranium	U	mg/l	0,000014	0,000013	0,000013	0,000014	0,000015	0,000012	0,000010	0,000010		0,000010	
Vanadium	V	mg/l	0,00037	0,00034	0,00031	0,00040	0,00039	0,00035	0,00038	0,00032		0,00039	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0062				0,0073	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0026					0,0022				0,0026	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	941	946	937	943	951	912	960	966	956	942	980
pH	pH	No unit	6,90	7,03	6,76	6,65	6,98	6,96	6,97	7,04	7,05	7,17	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$			4				4				4
Conductivité	Conductivité	µS/cm	21	20	17	20	20	21	17	20	19	24	20
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,1				<0,06				<0,08
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				3				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,025				0,022				0,020
Arsenic	As	mg/l			0,1210				0,0981				0,0935
Baryum	Ba	mg/l			0,00013				0,00012				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,20				3,35				3,32
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000167				0,000203				0,000210
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,064				0,054				0,044
Lithium	Li	mg/l			0,0046				0,0042				0,0044
Magnésium	Mg	mg/l			0,118				0,107				0,113
Manganese	Mn	mg/l			0,00099				0,00115				0,00122
Molybdène	Mo	mg/l			<0,0005				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,05				0,06
Nickel	Ni	mg/l			0,0010				0,0012				0,0011
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0234				0,0223				0,0221
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00345				0,00304				0,00313
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000018				0,000013
Vanadium	V	mg/l			0,00037				0,00028				0,00031
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0075				0,0062				0,0062
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0027				0,0021				0,0024
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	958	971	964	967	975	950	946	952	913	958	973
pH	pH	No unit	6,97	6,97	7,00	6,70	7	6,98	7,16	6,95	6,97	6,97	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	21	20	21	19	21	22	21	19	22	21	22
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,09				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				4				4			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,019				0,018			
Arsenic	As	mg/l				0,0848				0,0804			
Baryum	Ba	mg/l				0,00013				0,00015			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				3,08				3,15			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000217				0,000195			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,039				0,041			
Lithium	Li	mg/l				0,0043				0,004			
Magnésium	Mg	mg/l				0,101				0,095			
Manganese	Mn	mg/l				0,00120				0,00125			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,03			
Nickel	Ni	mg/l				0,0011				0,0013			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0206				0,0185			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00310				0,00292			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000009				0,000005			
Vanadium	V	mg/l				0,00027				0,00024			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0043				0,0055			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0014				0,0017			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	992	972
pH	pH	No unit	6,51	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	
Conductivité	Conductivité	µS/cm	25	22
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,07	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	4	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,022	
Arsenic	As	mg/l	0,0772	
Baryum	Ba	mg/l	0,00012	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,55	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000228	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,037	
Lithium	Li	mg/l	0,0039	
Magnésium	Mg	mg/l	0,102	
Manganese	Mn	mg/l	0,0015	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,04	
Nickel	Ni	mg/l	0,0011	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0188	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00306	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000086	
Vanadium	V	mg/l	0,00025	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0057	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0018	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-5

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	976	1016	988	945	940	956	977	1002	945	952	926
pH	pH	No unit	6,5	6,86	6,81	6,77	7,43	6,55	6,78	6,99	6,72	7,36	6,64
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				<3,0				<3,0
Conductivité	Conductivité	µS/cm	24	24	22	25	21	31	20	24	24	24	23
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,07				<0,12				<0,07
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				5
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,02				0,019				0,021
Arsenic	As	mg/l			0,0815				0,0903				0,0858
Baryum	Ba	mg/l			0,00018				0,00096				0,00012
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,72				3,31				3,55
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000242				0,000271				0,000200
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,044				0,042				0,047
Lithium	Li	mg/l			0,0041				0,0038				0,0036
Magnésium	Mg	mg/l			0,115				0,095				0,103
Manganese	Mn	mg/l			0,00158				0,00167				0,00134
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,04				0,04				0,04
Nickel	Ni	mg/l			0,0012				0,0013				0,0011
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0213				<0,018				<0,0167
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00006				<0,00006
Strontium	Sr	mg/l			0,0032				0,00457				0,00283
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000006
Uranium	U	mg/l			0,000018				0,000012				0,000036
Vanadium	V	mg/l			0,00026				0,00025				0,00026
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0059				0,0053				0,0059
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0019				0,0017				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	824	957	975	965	971	1002	967	1001	961	956	922
pH	pH	No unit	8,32	7,84	7,17	7,47	7,36	6,98	6,92	7,35	7,35	7,18	7,15
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	8	6	8	7	7	4	7	6	5	5
Conductivité	Conductivité	µS/cm	33	36	38	42	31	35	25	27	22	23	25
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,07	<0,08	<0,12	<0,08	<0,04	<0,08	<0,08	<0,03	<0,05
Sulfate	SO_4^{2-}	mg/l	2	5	8	7	7	7	5	4	4	4	6
Chlore	Cl^-	mg/l	2	2	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,07	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,154	0,040	0,031	0,025	0,029	0,021	0,026	0,027	0,033	0,040	0,033
Arsenic	As	mg/l	0,0373	0,2330	0,3250	0,3330	0,3830	0,3660	0,2800	0,3150	0,2930	0,2810	0,3370
Baryum	Ba	mg/l	0,00041	0,00039	0,00039	0,00037	0,00045	0,00043	0,00026	0,00036	0,00032	0,00026	0,00026
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,014	0,027	0,022	0,019	0,018	0,015	0,008	0,010	0,007	0,006	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,23	3,35	3,28	3,42	3,94	4,13	2,81	3,67	3,08	2,92	3,48
Cadmium	Cd	mg/l	<0,000004	<0,000003	<0,000003	0,000017	0,000003	<0,000004	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000063	0,000079	0,000146	0,000186	0,000217	0,000452	0,000189	0,000342	0,000238	0,000231	0,000227
Chrome	Cr	mg/l	0,00025	0,00008	<0,00008	0,00010	<0,00008	<0,00052	<0,00008	<0,0001	<0,00008	0,00009	<0,00008
Cuivre	Cu	mg/l	0,0014	0,0003	<0,0002	<0,0002	0,0003	0,0004	<0,001	<0,0003	<0,0004	<0,0014	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,020	0,007	0,008	<0,007	0,007	0,021
Potassium	K	mg/l	0,77	0,60	0,57	0,469	0,438	0,430	0,304	0,295	0,273	0,217	0,269
Lithium	Li	mg/l	0,1090	0,1370	0,1190	0,0979	0,0806	0,0695	0,0441	0,0398	0,0341	0,0306	0,0382
Magnésium	Mg	mg/l	0,308	0,514	0,640	0,605	0,619	0,708	0,501	0,564	0,469	0,433	0,571
Manganese	Mn	mg/l	0,00081	0,00368	0,00356	0,00408	0,00448	0,00554	0,00269	0,00435	0,00346	0,00251	0,00257
Molybdène	Mo	mg/l	0,00036	0,00020	0,00018	0,00025	0,00016	0,00006	0,00123	0,00014	0,00110	0,00031	0,00011
Sodium	Na	mg/l	1,96	2,58	2,04	1,29	1,01	0,90	0,51	0,52	0,36	0,29	0,33
Nickel	Ni	mg/l	0,0009	0,0016	0,0017	0,0021	0,0023	0,0039	0,0020	0,0025	0,0017	0,0012	0,0012
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0177	0,1410	0,1200	0,1350	0,1180	0,1490	0,0826	0,1180	0,0802	0,0746	0,0841
Sélénium	Se	mg/l	0,00007	0,00015	0,00028	0,00009	0,00014	0,00014	0,00012	0,00013	0,00011	0,00008	0,00009
Etain	Sn	mg/l	0,00037	0,00014	0,00011	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00009	0,00006
Strontium	Sr	mg/l	0,0103	0,0135	0,01544	0,0142	0,01620	0,0153	0,0119	0,01252	0,0106	0,01049	0,0122
Titane	Ti	mg/l	0,00020	0,00018	0,00018	0,00052	0,00039	<0,00008	0,00012	0,00036	0,00023	0,00020	0,00019
Thallium	Th	mg/l	0,000019	<0,000005	0,000010	<0,000005	<0,000008	0,000011	<0,000008	<0,000007	<0,000005	<0,000007	<0,000005
Uranium	U	mg/l	0,003480	0,000030	0,000156	0,000150	0,000156	0,000046	0,000480	0,000037	0,00005	0,000051	0,000065
Vanadium	V	mg/l	0,00115	0,00114	0,00111	0,00097	0,00104	0,00094	0,00078	0,00087	0,00081	0,00082	0,00095
Tungstène	W	mg/l	0,00153	0,00333	0,00261	0,00191	0,00152	0,00097	0,00079	0,00074	0,00054	0,00045	0,00056
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,005	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0349	0,0270	0,0268	0,0255	0,0237	0,0202	0,0173	0,0179	0,0178	0,0138	0,0152
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0209	0,0134	0,0121	0,0105	0,0099	0,0094	0,0064	0,0074	0,0064	0,0057	0,0063
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	974	996	977	958	898	956	921	924	916	972	962
pH	pH	No unit	7,15	7,16	7,08	6,90	6,75	7,11	7,02	7,13	6,84	7,16	6,83
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	3	7	4	4	4	4	4	4
Conductivité	Conductivité	µS/cm	20	19	18	16	24	24	18	20	17	17	16
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l					<0,06	<0,06	<0,06	<0,06	<0,04	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	4	3	3	3	4	<3,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l	0,04	0,03	0,04	0,03	<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l	0,00005	0,00005	0,00005	0,00005	<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l					<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00016	<0,00005
Aluminum	Al	mg/l	0,041	0,026	0,026	0,027	0,029	0,023	0,027	0,031	0,036	0,022	0,024
Arsenic	As	mg/l	0,2490	0,2120	0,2280	0,1850	0,3170	0,2340	0,2500	0,3000	0,2420	0,2080	0,168
Baryum	Ba	mg/l	0,00030	0,00024	0,00016	0,00022	0,00024	0,00021	0,00025	0,00026	0,00030	0,00021	0,00024
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,003	0,003	0,003	0,004	0,003	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,40	2,40	2,01	2,36	3,10	2,37	2,58	2,71	2,52	2,23	2,33
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000005	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000355	0,000300	0,000267	0,000186	0,000119	0,000152	0,000175	0,000156	0,000166	0,000208	0,000217
Chrome	Cr	mg/l	0,00030	0,00008	0,00065	<0,00008	<0,00008	0,00012	<0,00008	0,00014	<0,00012	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0026	0,0003	0,0002	0,0002	<0,0002	<0,0012	0,0005	<0,0002	<0,0003
Fer	Fe	mg/l	0,041	0,007	<0,007	<0,007	0,007	<0,007	<0,009	0,007	<0,011	<0,007	0,007
Potassium	K	mg/l	0,174	0,147	0,106	0,150	0,246	0,153	0,165	0,168	0,167	0,136	0,104
Lithium	Li	mg/l	0,0277	0,0156	0,0130	0,0130	0,0283	0,0149	0,0167	0,0151	0,0163	0,0120	0,0123
Magnésium	Mg	mg/l	0,414	0,321	0,235	0,278	0,53	0,317	0,365	0,351	0,373	0,284	0,253
Manganese	Mn	mg/l	0,00347	0,00253	0,01460	0,00224	0,00138	0,00201	0,00339	0,00192	0,00165	0,00175	0,00189
Molybdène	Mo	mg/l	0,00004	0,00036	0,00253	0,00021	0,00005	0,00022	0,00008	0,00025	0,00014	0,00048	0,00052
Sodium	Na	mg/l	0,19	0,13	0,12	0,14	0,22	0,11	0,10	0,14	0,14	0,08	0,09
Nickel	Ni	mg/l	0,0010	0,0012	0,0201	0,0008	0,0006	0,0008	0,0009	0,0008	0,0007	0,0010	0,0009
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00013	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00022	0,00009
Antimoine	Sb	mg/l	0,0709	0,0541	0,0469	0,0366	0,0729	0,0555	0,0493	0,0531	0,0368	0,0502	0,0363
Sélénium	Se	mg/l	0,00010	0,00007	0,00007	0,00006	0,00010	0,00006	0,00010	0,00009	0,00006	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	0,00017	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0080	0,0071	0,00599	0,0070	0,0105	0,0074	0,0079	0,0083	0,0080	0,0066	0,00628
Titane	Ti	mg/l	0,00219	0,00023	0,00015	0,00017	0,00015	0,00010	0,00017	0,00017	0,00040	0,00007	0,00007
Thallium	Th	mg/l	0,000018	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000008	<0,000006	<0,000007	0,000005	<0,000005
Uranium	U	mg/l	0,000019	0,00487	0,000087	0,000019	0,000044	0,000029	0,00010	0,000328	0,001660	0,00057	0,00002
Vanadium	V	mg/l	0,00081	0,00058	0,00058	0,00055	0,00074	0,00064	0,00066	0,00094	0,00073	0,00063	0,00055
Tungstène	W	mg/l	0,00038	0,00021	0,00015	0,00017	0,00024	0,00016	0,00017	0,00066	0,00015	0,00011	0,0001
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0144	0,0124		0,0134		0,0108	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0065	0,0045		0,0046		0,0037	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	949	945	1003	941	962	992	952	953	927	956	1027
pH	pH	No unit	6,98	6,8	6,97	6,75	6,72	6,89	7,03	6,93	6,83	6,97	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	3	2	3	3	3	3	3	3
Conductivité	Conductivité	µS/cm	16	15	16	15	14	14	14	14	17	14	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,04	<0,05	<0,03	<0,05	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	3	3	3	2	4	3	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,028	0,022	0,03	0,024	0,020	0,032	0,023	0,024	0,022	0,017
Arsenic	As	mg/l	0,1860	0,168	0,177	0,142	0,153	0,1440	0,156	0,151	0,204	0,1440	0,1560
Baryum	Ba	mg/l	0,00018	0,00012	0,00017	0,00014	0,00016	0,00020	0,00019	0,00017	0,00034	0,00025	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,00001	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,36	2,1	2,36	2,28	2,17	2,32	2,52	2,02	3,19	2,05	2,60
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000004	0,000003	<0,000003
Cobalt	Co	mg/l	0,000182	0,00018	0,00023	0,000203	0,00016	0,000206	0,000151	0,000222	0,000198	0,000153	0,000251
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00021	<0,00008	<0,00008	<0,00011	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0005	0,0003	<0,0003	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,120	0,103	0,097	0,112	0,106	0,091	0,099	0,068	0,135	0,080	0,079
Lithium	Li	mg/l	0,0104	0,01	0,0103	0,0086	0,0081	0,0081	0,0086	0,0063	0,0115	0,0084	0,0072
Magnésium	Mg	mg/l	0,256	0,229	0,238	0,223	0,199	0,216	0,191	0,173	0,263	0,181	0,184
Manganese	Mn	mg/l	0,00157	0,00128	0,00201	0,0019	0,00142	0,00174	0,00184	0,00178	0,00216	0,00138	0,00190
Molybdène	Mo	mg/l	0,00021	0,00068	0,0003	0,00033	0,00005	0,00005	0,00016	0,00004	0,00007	0,00018	0,00038
Sodium	Na	mg/l	0,07	0,07	0,06	0,09	0,1	0,08	0,08	0,04	0,08	0,05	0,12
Nickel	Ni	mg/l	0,0007	0,0007	0,0009	0,0009	0,0007	0,0009	0,0007	0,0009	0,0012	0,0008	0,0012
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00023	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0301	0,031	0,0417	0,0286	0,0268	0,0339	0,0238	0,0263	0,0435	0,0247	0,0407
Sélénium	Se	mg/l	0,00005	0,00007	0,00004	0,00018	0,00008	0,00004	0,00005	0,00004	0,00005	0,00004	0,00012
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0067	0,00593	0,00635	0,00611	0,00566	0,0058	0,0055	0,00558	0,00641	0,0050	0,0066
Titane	Ti	mg/l	0,00017	<0,00011	0,0001	0,00046	0,00007	0,00007	<0,00008	0,00009	0,00019	0,00007	<0,00007
Thallium	Th	mg/l	0,000010	<0,000005	<0,000007	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000007	<0,000005	<0,000005
Uranium	U	mg/l	0,000890	0,00241	0,000239	0,000025	0,000042	0,000055	0,00114	0,000026	0,000123	0,00015	0,000155
Vanadium	V	mg/l	0,00055	0,00052	0,00057	0,00051	0,00044	0,00044	0,00049	0,00045	0,00057	0,00042	0,00045
Tungstène	W	mg/l	0,00010	0,00008	0,0001	0,00005	0,00006	0,00006	0,00006	0,00006	0,00005	0,00006	0,00009
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0097					0,0089		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,003					0,0037		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	940	991	975	919	973	954	965	911	985	994	944
pH	pH	No unit	6,83	6,57	6,98	6,96	6,90	6,76	6,87	6,81	6,90	6,95	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	4	4	3	2	3	3	3	3	3
Conductivité	Conductivité	µS/cm	13	19	18	18	16	16	16	14	14	19	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	4	3	3	2	3
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,019	0,019	0,024	0,025	0,025	0,034	0,030	0,032	0,025	0,021	0,024
Arsenic	As	mg/l	0,1150	0,1140	0,1200	0,1260	0,1110	0,1240	0,1230	0,1130	0,1140	0,1030	0,1190
Baryum	Ba	mg/l	0,00014	0,00014	0,00015	0,00015	0,00023	0,00012	0,00014	0,00016	0,00032	0,00011	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,05	2,09	2,47	2,30	2,30	2,56	2,51	2,45	2,04	1,77	2,36
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000004	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000216	0,000234	0,000235	0,000176	0,000178	0,000212	0,000175	0,000156	0,000150	0,000173	0,000213
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,064	0,055	0,068	0,080	0,075	0,072	0,085	0,086	0,062	0,043	0,060
Lithium	Li	mg/l	0,0063	0,0062	0,0070	0,0072	0,0076	0,0070	0,0071	0,0067	0,0053	0,0044	0,0056
Magnésium	Mg	mg/l	0,151	0,144	0,159	0,150	0,155	0,163	0,155	0,153	0,112	0,094	0,124
Manganese	Mn	mg/l	0,00145	0,00142	0,00175	0,00112	0,00131	0,00139	0,00170	0,00134	0,00112	0,00125	0,00143
Molybdène	Mo	mg/l	0,00047	0,00026	0,00009	0,00004	0,00011	0,00035	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,05	0,04	0,05	0,10	0,04	0,04	0,04	0,10	0,06	0,04	0,06
Nickel	Ni	mg/l	0,0009	0,0010	0,0010	0,0007	0,0009	0,0008	0,0009	0,0008	0,0007	0,0008	0,0010
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00021	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0242	0,0244	0,0239	0,0212	0,0254	0,0250	0,0226	0,0198	0,0194	0,0162	0,0187
Sélénium	Se	mg/l	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0047	0,0047	0,0052	0,0045	0,0044	0,0052	0,0053	0,00461	0,00411	0,00332	0,00493
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00011	0,00008	0,00013	0,00020	0,0002	0,0001	<0,0001	<0,00012
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000164	0,003570	0,00005	0,000058	0,000015	0,00006	0,00003	0,000312	0,000015	0,000012	0,000015
Vanadium	V	mg/l	0,00039	0,00039	0,00042	0,00038	0,00039	0,00041	0,00040	0,00040	0,00040	0,00036	0,00034
Tungstène	W	mg/l	0,00007	0,00005	0,00006	0,00006	0,00004	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0078					0,0083			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0025					0,0025			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	948	949	969	944	920	968	949	977	970	953	935
pH	pH	No unit	6,81	6,84	6,99	6,89	6,94	6,83	6,84	6,73	6,86	6,77	6,95
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	3	3	3	2	3	3	3	2	3
Conductivité	Conductivité	µS/cm	15	16	14	13	16	12	15	13	11	13	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	4	3	3	4	3	3	2	2	3	3
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,026	0,018	0,019	0,025	0,018	0,024	0,019	0,021	0,021	0,024
Arsenic	As	mg/l	0,1510	0,1090	0,1090	0,1170	0,1300	0,1080	0,1180	0,0957	0,0921	0,0901	0,0966
Baryum	Ba	mg/l	0,00012	0,00020	0,00009	0,00012	0,00015	0,00012	0,00014	0,00011	0,00012	0,00011	0,00012
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,58	2,47	2,06	2,02	2,17	1,81	2,49	2,03	1,99	2,25	2,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000171	0,000231	0,000205	0,000193	0,000215	0,000182	0,000189	0,000161	0,000188	0,000192	0,000188
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00008	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,077	0,052	0,059	0,060	0,055	0,055	0,046	0,044	0,058	0,054
Lithium	Li	mg/l	0,0065	0,0066	0,0058	0,0049	0,0051	0,0048	0,0054	0,0041	0,0040	0,0049	0,0047
Magnésium	Mg	mg/l	0,140	0,151	0,122	0,114	0,127	0,110	0,132	0,100	0,094	0,111	0,114
Manganese	Mn	mg/l	0,00102	0,00154	0,00100	0,00105	0,00089	0,00099	0,00102	0,00081	0,00114	0,00121	0,00123
Molybdène	Mo	mg/l	<0,0017	<0,0004	<0,0005	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,05	0,03	0,04	0,05	0,04	0,04	0,04	0,03	0,07	0,04
Nickel	Ni	mg/l	0,0015	0,0010	0,0008	0,0009	0,0010	0,0008	0,0008	0,0007	0,0009	0,0008	0,0008
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009
Antimoine	Sb	mg/l	0,0326	0,0217	0,0196	0,0195	0,0178	0,0168	0,0177	0,0154	0,0139	0,0133	0,0152
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00033	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00448	0,00488	0,00399	0,00354	0,00426	0,00345	0,00442	0,00341	0,00331	0,00347	0,00385
Titane	Ti	mg/l	0,0001	<0,00014	<0,0001	0,0001	0,0002	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000474	0,000041	0,000013	0,000016	0,000017	0,000014	0,000017	0,000031	0,000016	0,000019	0,000011
Vanadium	V	mg/l	0,00035	0,00032	0,00034	0,00034	0,00038	0,00037	0,00038	0,00031	0,00033	0,00029	0,00037
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0087					0,0076				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0027					0,0024				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	937	1000	948	963	968	953	974	946	938	944	952
pH	pH	No unit	6,73	7,03	7,11	7,07	6,78	6,85	6,64	6,74	6,93	6,98	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	2	3	2	3	3	3	3		4	
Conductivité	Conductivité	µS/cm	15	15	13	13	13	12	15	14	15	14	16
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	3	3	3	3	3	3	3	3		3	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,022	0,015	0,017	0,019	0,021	0,022	0,020	0,021		0,023	
Arsenic	As	mg/l	0,0921	0,0873	0,0771	0,0894	0,0956	0,0856	0,0865	0,0918		0,0845	
Baryum	Ba	mg/l	0,00011	0,00015	0,00011	0,00014	0,00015	0,00016	0,00013	0,00018		0,00011	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,37	2,29	2,24	2,25	2,40	2,08	2,19	2,37		2,39	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000013	
Cobalt	Co	mg/l	0,000176	0,000228	0,000183	0,000163	0,000159	0,000185	0,000147	0,000245		0,000158	
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00012	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,054	0,052	0,056	0,056	0,053	0,045	0,051	0,050		0,065	
Lithium	Li	mg/l	0,0049	0,0048	0,0039	0,0045	0,0045	0,0039	0,0044	0,0045		0,0040	
Magnésium	Mg	mg/l	0,116	0,111	0,106	0,109	0,114	0,100	0,103	0,110		0,118	
Manganese	Mn	mg/l	0,00122	0,00131	0,00169	0,00138	0,00101	0,00125	0,00102	0,00126		0,00115	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0284	
Sodium	Na	mg/l	0,05	0,04	0,05	0,04	0,06	0,03	0,04	0,04		0,11	
Nickel	Ni	mg/l	0,0006	0,0011	0,0008	0,0008	0,0009	0,0010	0,0007	0,0010		0,0007	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0145	0,0186	0,0124	0,0152	0,0149	0,0129	0,0136	0,0143		0,0136	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00392	0,00367	0,00294	0,00360	0,00355	0,00315	0,00379	0,00362		0,00347	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00014	<0,0001	0,0002		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000013	0,000015	0,000008	0,000008	0,000012	0,000011	0,000029	0,000011		0,000007	
Vanadium	V	mg/l	0,00030	0,00029	0,00026	0,00032	0,00032	0,00030	0,00029	0,00031		0,00028	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0060				0,0071	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0023					0,0020				0,0021	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	945	967	940	967	958	956	963	950	966	951	958
pH	pH	No unit	6,77	6,81	6,70	6,62	6,86	6,85	6,76	6,55	6,93	6,91	6,59
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				2
Conductivité	Conductivité	µS/cm	17	15	12	14	15	15	12	18	13	15	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				2				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,021				0,017				0,018
Arsenic	As	mg/l			0,0808				0,0733				0,0683
Baryum	Ba	mg/l			0,00017				0,00013				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,18				2,21				2,28
Cadmium	Cd	mg/l			<0,000004				<0,000003				<0,000004
Cobalt	Co	mg/l			0,000446				0,000144				0,000150
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,052				0,046				0,044
Lithium	Li	mg/l			0,0036				0,0035				0,0036
Magnésium	Mg	mg/l			0,095				0,090				0,097
Manganese	Mn	mg/l			0,00102				0,00078				0,00100
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,04				0,09
Nickel	Ni	mg/l			0,0010				0,0006				0,0007
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0123				0,0115				0,0100
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00308				0,00272				0,00304
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000027				0,000044
Vanadium	V	mg/l			0,00028				0,00026				0,00026
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0074				0,0060				0,0060
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0025				0,0018				0,0023
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	964	969	963	960	971	948	977	962	934	969	953
pH	pH	No unit	6,81	6,83	6,85	6,56	7,06	7,1	7,03	6,77	6,9	7,22	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	15	14	14	12	15	18	14	13	15	15	17
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				3			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,016				0,013			
Arsenic	As	mg/l				0,0590				0,0568			
Baryum	Ba	mg/l				0,00008				0,00010			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,03				2,14			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000154				0,000221			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,034				0,037			
Lithium	Li	mg/l				0,0034				0,0035			
Magnésium	Mg	mg/l				0,073				0,078			
Manganese	Mn	mg/l				0,00102				0,00124			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,04				0,03			
Nickel	Ni	mg/l				0,0005				0,0014			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0094				0,0099			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00250				0,00268			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000014				0,000005			
Vanadium	V	mg/l				0,00023				0,00019			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0044				0,0059			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0014				0,0017			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1015	976
pH	pH	No unit	6,42	6,87
Alkalinité	Alkalinité	mg$CaCO_3$/l	3	
Conductivité	Conductivité	µS/cm	17	16
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	3	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,014	
Arsenic	As	mg/l	0,0602	
Baryum	Ba	mg/l	0,0001	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,53	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000291	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,035	
Lithium	Li	mg/l	0,0034	
Magnésium	Mg	mg/l	0,085	
Manganese	Mn	mg/l	0,00178	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,03	
Nickel	Ni	mg/l	0,0009	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0097	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00285	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000008	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00021	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0071	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0018	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-5 (DUP)

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	991	982	1004	982	969	967	1011	1016	953	943	939
pH	pH	No unit	6,58	6,64	6,69	6,71	6,61	6,54	6,63	6,57	6,72	6,77	6,80
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				<2,0				<3,0
Conductivité	Conductivité	µS/cm	18	16	14	17	23	21	16	18	18	18	15
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,11
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				4				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,014				0,012				0,016
Arsenic	As	mg/l			0,0659				0,0555				0,0615
Baryum	Ba	mg/l			0,00009				0,00009				0,00009
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00003
Calcium	Ca	mg/l			2,35				2,47				2,37
Cadmium	Cd	mg/l			<0,000004				0,000003				<0,000003
Cobalt	Co	mg/l			0,000258				0,000363				0,000200
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,040				0,044				0,045
Lithium	Li	mg/l			0,0034				0,0039				0,0037
Magnésium	Mg	mg/l			0,09				0,095				0,096
Manganese	Mn	mg/l			0,00135				0,00235				0,00155
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,03				0,04				0,04
Nickel	Ni	mg/l			0,0009				0,0013				0,0008
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00014
Antimoine	Sb	mg/l			<0,0098				<0,009				<0,0095
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00258				0,0027				0,00233
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000005				0,000005				0,000021
Vanadium	V	mg/l			0,00021				0,00018				0,00020
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0062				0,0062				0,0072
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0018				0,0018				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	829	978	1005	1007	997	998	989	973	951	939	957
pH	pH	No unit	8,12	8,63	8,65	8,75	8,51	7,81	8,49	8,79	8,16	8,84	8,10
Alkalinité	Alkalinité	$mgCaCO_3/l$	22	24	23	23	21	21	17	21	20	14	14
Conductivité	Conductivité	µS/cm	86	81	59	63	46	55	44	48	41	39	39
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,05	<0,04	<0,07	<0,03	<0,03	<0,03	<0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	6	4	4	4	3	3	4	3	4	4
Chlore	Cl^-	mg/l	22	10	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,5	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,131	0,115	0,142	0,109	0,098	0,122	0,122	0,119	0,134	0,127	0,101
Arsenic	As	mg/l	0,0115	0,0817	0,1060	0,1060	0,1110	0,1130	0,0957	0,0897	0,0913	0,0801	0,0730
Baryum	Ba	mg/l	0,00031	0,00038	0,00029	0,00020	0,00026	0,00025	0,00020	0,00022	0,00021	0,00016	0,00018
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,013	0,028	0,014	0,011	0,012	0,008	0,005	0,005	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001
Calcium	Ca	mg/l	6,75	7,08	6,23	6,41	6,79	7,34	6,55	7,17	6,82	6,29	6,24
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000028	0,000052	0,000045	0,000044	0,000061	0,000048	0,000048	0,000066	0,000057	0,000060	0,000050
Chrome	Cr	mg/l	0,00008	0,00012	<0,00008	0,00008	<0,00008	<0,00016	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0002	<0,0002	0,0004	0,0003	<0,0002	<0,0002	<0,0003	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,011	0,007	0,007	<0,007	0,007	0,019
Potassium	K	mg/l	0,49	0,39	0,23	0,183	0,176	0,164	0,139	0,114	0,120	0,088	0,088
Lithium	Li	mg/l	0,0161	0,0166	0,0123	0,0103	0,0103	0,0095	0,0086	0,0078	0,0081	0,0070	0,0065
Magnésium	Mg	mg/l	0,700	0,903	0,668	0,607	0,618	0,688	0,559	0,601	0,522	0,416	0,442
Manganese	Mn	mg/l	0,00133	0,00225	0,00178	0,00274	0,00412	0,00462	0,00285	0,00406	0,00385	0,00477	0,00445
Molybdène	Mo	mg/l	0,00023	0,00036	0,00027	0,00027	0,00034	0,00012	0,00027	0,00008	0,00115	0,00032	0,00010
Sodium	Na	mg/l	11,00	8,65	3,69	2,48	2,17	1,83	1,15	1,14	0,90	0,70	0,59
Nickel	Ni	mg/l	0,0003	0,0006	0,0003	0,0003	0,0006	0,0003	0,0003	0,0004	0,0003	0,0002	0,0002
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0046	0,0559	0,0357	0,0409	0,0329	0,0335	0,0246	0,0234	0,0174	0,0148	0,0147
Sélénium	Se	mg/l	0,00008	0,00026	0,00036	0,00022	0,00030	0,00033	0,00035	0,00032	0,00020	0,00023	0,00009
Etain	Sn	mg/l	0,00058	0,00034	0,00019	0,00010	0,00009	0,00007	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0151	0,0166	0,01214	0,0112	0,01200	0,0112	0,0099	0,01066	0,0093	0,00816	0,0078
Titane	Ti	mg/l	0,00005	0,00013	0,00012	0,00025	0,00022	<0,00013	0,00017	0,00036	0,00033	0,00036	0,00020
Thallium	Th	mg/l	0,000005	<0,000005	0,000007	<0,000005	<0,000009	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000416	0,000620	0,000490	0,003700	0,000298	0,006110	0,003062	0,00015	0,001290	0,001404
Vanadium	V	mg/l	0,00219	0,00591	0,00644	0,00582	0,00606	0,00577	0,00525	0,00526	0,00496	0,00470	0,00403
Tungstène	W	mg/l	0,00020	0,00051	0,00031	0,00110	0,00019	0,00013	0,00009	0,00008	0,00007	0,00009	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0082	0,0064	0,0046	0,0044	0,0039	0,0033	0,0033	0,0030	0,0032	0,0025	0,0025
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0005	<0,0004	<0,0003	<0,0003	<0,0003	0,0001	<0,0003	0,0003	<0,0003	<0,0002	<0,0002
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0037	0,0029	0,0019	0,0016	0,0012	0,0012	0,0011	0,0010	0,0009	0,0008	0,0008
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	987	1000	994	1003	904	1005	1002	999	980	1001	994
pH	pH	No unit	7,86	8,26	7,70	7,79	7,90	7,55	7,89	7,97	7,51	7,83	7,37
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	16	15	16	24	9	13	16	14	13	13
Conductivité	Conductivité	µS/cm	38	39	32	39	32	26	34	33	33	32	32
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06	2	<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	3	2	3	2	3	2		2	3	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00016	<0,00005
Aluminum	Al	mg/l	0,124	0,123	0,083	0,137	0,113	0,121	0,117	0,096	0,103	0,102	0,085
Arsenic	As	mg/l	0,0716	0,0733	0,0589	0,0729	0,0677	0,0683	0,0593	0,0549	0,0525	0,0566	0,043
Baryum	Ba	mg/l	0,00019	0,00017	0,00013	0,00019	0,00018	0,00015	0,00013	0,00019	0,00023	0,00034	0,00016
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,003	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	6,08	6,21	4,87	6,68	6,35	5,89	6,10	5,92	5,64	6,27	5,65
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000124	0,000055	0,000061	0,000053	0,000078	0,000050	0,000054	0,000055	0,000083	0,000074	0,000058
Chrome	Cr	mg/l	0,00024	0,00008	0,00014	<0,00008	<0,00008	0,00009	<0,00008	0,00012	<0,00008	<0,00008	<0,00014
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0002	0,0004	0,0003	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,067	0,007	<0,015	<0,007	0,016	<0,007	<0,01	0,012	<0,011	<0,007	0,009
Potassium	K	mg/l	0,076	0,067	0,043	0,083	0,076	0,064	0,063	0,062	0,054	0,066	0,046
Lithium	Li	mg/l	0,0077	0,0064	0,0043	0,0061	0,0054	0,0051	0,0052	0,0049	0,0048	0,0057	0,0055
Magnésium	Mg	mg/l	0,453	0,417	0,274	0,422	0,39	0,313	0,328	0,304	0,316	0,332	0,284
Manganese	Mn	mg/l	0,00473	0,00400	0,00438	0,00364	0,00476	0,00391	0,00520	0,00545	0,00566	0,00609	0,00602
Molybdène	Mo	mg/l	0,00007	0,00014	0,00016	0,00016	0,00015	0,00008	0,00034	0,00014	0,00019	0,00051	0,00017
Sodium	Na	mg/l	0,62	0,57	0,37	0,52	0,46	0,39	0,32	0,32	0,32	0,29	0,27
Nickel	Ni	mg/l	0,0003	0,0002	0,0010	0,0003	0,0002	0,0001	0,0001	0,0002	0,0003	0,0002	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0141	0,0134	0,0114	0,0140	0,0117	0,0129	0,0099	0,0100	0,0075	0,0102	0,0075
Sélénium	Se	mg/l	0,00018	0,00016	0,00010	0,00020	0,00012	0,00015	0,00013	0,00010	0,00014	0,00010	0,0001
Etain	Sn	mg/l	<0,00007	<0,00007	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006
Strontium	Sr	mg/l	0,0070	0,0069	0,00527	0,0076	0,0070	0,0062	0,0061	0,0057	0,0055	0,0062	0,0053
Titane	Ti	mg/l	0,00306	0,00024	0,00032	0,00038	0,00044	0,00024	0,00043	0,00054	0,00051	0,00035	0,00019
Thallium	Th	mg/l	0,000013	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000035	0,00020	0,000085	0,000098	0,000115	0,002630	0,00022	0,000181	0,009230	0,00009	0,000047
Vanadium	V	mg/l	0,00443	0,00430	0,00319	0,00420	0,00381	0,00400	0,00355	0,00326	0,00329	0,00345	0,00282
Tungstène	W	mg/l	0,00018	0,00005	0,00004	0,00004	0,00005	0,00003	0,00005	0,00013	0,00016	0,00004	0,00003
Yttrium	Y	mg/l	<0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0022	0,0026		0,0021		0,0022	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0002		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0007	0,0006		0,0005		0,0005	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	986	997	998	995	995	998	996	971	976	984	1012
pH	pH	No unit	7,72	7,58	7,51	7,43	7,45	7,49	7,59	7,65	7,4	7,30	7,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	13	13	12	12	12	12	11	11	10	12
Conductivité	Conductivité	µS/cm	31	29	29	31	27	26	26	27	29	27	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,56	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,103	0,101	0,1	0,092	0,081	0,080	0,091	0,083	0,093	0,085	0,086
Arsenic	As	mg/l	0,0521	0,0437	0,0456	0,0409	0,0377	0,0383	0,0349	0,0377	0,0371	0,0353	0,0391
Baryum	Ba	mg/l	0,00014	0,00018	0,0002	0,0001	0,00024	0,00021	0,00011	0,00013	0,00015	0,00012	0,00026
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,66	5,73	5,8	5,59	5,15	5,65	5,29	4,71	5,41	4,86	5,00
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000005	<0,000003
Cobalt	Co	mg/l	0,000061	0,000057	0,000057	0,000056	0,000044	0,000054	0,000045	0,000051	0,000052	0,000051	0,000068
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	<0,0016	0,0003	<0,0015	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0003	<0,0002
Fer	Fe	mg/l	<0,007	<0,011	<0,013	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,058	0,048	0,059	0,055	0,058	0,034	0,035	0,02	0,042	0,038	0,031
Lithium	Li	mg/l	0,0052	0,0047	0,0049	0,0043	0,0037	0,0038	0,0036	0,003	0,0045	0,0040	0,0044
Magnésium	Mg	mg/l	0,292	0,265	0,271	0,252	0,225	0,236	0,196	0,193	0,24	0,211	0,220
Manganese	Mn	mg/l	0,00525	0,00579	0,0064	0,00582	0,00558	0,00608	0,00577	0,00597	0,00537	0,00517	0,00575
Molybdène	Mo	mg/l	0,00019	0,00081	0,00019	0,00013	0,00038	0,00008	0,00008	0,00004	0,00018	0,00036	0,00010
Sodium	Na	mg/l	0,28	0,23	0,42	0,22	0,27	0,21	0,17	0,14	0,19	0,22	0,20
Nickel	Ni	mg/l	0,0002	0,0002	0,0003	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00011	<0,00009	<0,00009	0,00011	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00018	<0,00009
Antimoine	Sb	mg/l	0,0071	0,0073	0,0064	0,0073	0,0052	0,0066	0,0039	0,0043	0,0053	0,0046	0,0059
Sélénium	Se	mg/l	0,00013	0,00012	0,00011	0,00007	0,00017	0,00006	0,0001	0,00011	0,00009	0,00018	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0055	0,00521	0,0052	0,00502	0,00462	0,0046	0,00379	0,00411	0,00401	0,0040	0,0048
Titane	Ti	mg/l	0,00021	<0,00041	0,00033	0,0003	0,00016	0,00017	<0,00023	0,00033	0,00026	0,00023	<0,00025
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000054	0,000703	0,000287	0,00281	0,000237	0,000088	0,000136	0,000357	0,000635	0,00209	0,000779
Vanadium	V	mg/l	0,00334	0,00285	0,00299	0,00262	0,00233	0,00243	0,00227	0,00228	0,00243	0,00235	0,00236
Tungstène	W	mg/l	0,00003	0,00003	0,00002	0,00002	0,00003	0,00002	0,00002	0,00003	0,00003	0,00002	0,00002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,002					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,00001					0,0015		
Dysprosium (total)	Dy	mg/l				0,002					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,0002					<0,00001		
Germanium (total)	Ge	mg/l				0,00001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0001					0,0004		
Rhenium (total)	Re	mg/l				0,0005					<0,0001		
Rhodium (total)	Rh	mg/l				0,0001					<0,00001		
Scandium (total)	Sc	mg/l				0,00001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	957	994	988	940	984	983	1017	932	988	976	953
pH	pH	No unit	7,51	7,42	7,71	7,58	8,87	7,47	7,71	7,85	7,71	7,88	7,79
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	12	13	13	12	12	12	10	12	13	13
Conductivité	Conductivité	µS/cm	28	32	33	32	30	29	30	26	28	28	29
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,132	0,096	0,106	0,094	0,099	0,096	0,090	0,104	0,096	0,105	0,108
Arsenic	As	mg/l	0,0382	0,0392	0,0414	0,0396	0,0360	0,0374	0,0356	0,0318	0,0372	0,0340	0,0375
Baryum	Ba	mg/l	0,00011	0,00019	0,00018	0,00111	0,00014	0,00008	0,00075	0,00012	0,00051	0,00014	0,00009
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,23	5,37	5,71	5,21	5,33	5,21	5,31	5,06	4,88	5,05	5,19
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000058	0,000057	0,000061	0,000055	0,000086	0,000077	0,000071	0,000072	0,000063	0,000070	0,000070
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0004	<0,0002	0,0003	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,008	<0,007	<0,01	<0,007	<0,007	0,013	<0,01	<0,009	<0,008
Potassium	K	mg/l	0,033	0,026	0,040	0,041	0,044	0,036	0,045	0,043	0,030	0,018	0,030
Lithium	Li	mg/l	0,0045	0,0041	0,0044	0,0043	0,0046	0,0045	0,0040	0,0034	0,0035	0,0030	0,0037
Magnésium	Mg	mg/l	0,222	0,212	0,236	0,226	0,229	0,225	0,213	0,203	0,182	0,176	0,198
Manganese	Mn	mg/l	0,00538	0,00532	0,00585	0,00481	0,00566	0,00517	0,00575	0,00542	0,00574	0,00557	0,00557
Molybdène	Mo	mg/l	0,00034	0,00054	0,00034	0,00011	0,00008	0,00054	0,00040	<0,0004	<0,0004	<0,0004	<0,001
Sodium	Na	mg/l	0,17	0,15	0,22	0,21	0,19	0,24	0,14	0,20	0,14	0,13	0,15
Nickel	Ni	mg/l	0,0002	0,0002	0,0003	0,0001	0,0004	0,0001	0,0003	0,0003	0,0002	0,0003	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00256	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009
Antimoine	Sb	mg/l	0,0054	0,0047	0,0046	0,0041	0,0047	0,0046	0,0044	0,0032	0,0038	0,0026	0,0034
Sélénium	Se	mg/l	0,00009	0,00007	0,00010	0,00009	0,00008	0,00008	0,00008	0,00010	0,00010	0,00010	0,00010
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0045	0,0044	0,0047	0,0048	0,0047	0,0043	0,0049	0,00361	0,00418	0,00363	0,00396
Titane	Ti	mg/l	<0,00013	0,00024	<0,00018	0,00017	0,00033	0,00035	0,00018	0,0006	0,0002	<0,00045	<0,00038
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,015900	0,000160	0,00310	0,000668	0,000314	0,00337	0,00009	0,000128	0,000666	0,002500	0,006010
Vanadium	V	mg/l	0,00236	0,00247	0,00289	0,00252	0,00235	0,00258	0,00239	0,00225	0,00252	0,00242	0,00249
Tungstène	W	mg/l	0,00002	0,00002	0,00003	0,00002	0,00002	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0016					0,0015			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0002					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0004					0,0004			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	948	1014	986	982	961	989	1008	971	1007	1000	995
pH	pH	No unit	8,09	7,92	7,68	7,76	7,48	7,75	7,77	7,52	7,85	7,72	8,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	13	13	12	15	13	12	12	13	12	12
Conductivité	Conductivité	µS/cm	30	30	29	28	28	32	30	29	27	25	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,105	0,102	0,089	0,099	0,102	0,106	0,105	0,082	0,093	0,087	0,103
Arsenic	As	mg/l	0,0316	0,0336	0,0307	0,0340	0,0310	0,0344	0,0303	0,0285	0,0277	0,0261	0,0284
Baryum	Ba	mg/l	0,00103	0,00014	0,00011	0,00016	0,00011	0,00008	0,00018	0,00024	0,00009	0,00008	0,00009
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,87	5,51	4,87	5,66	4,89	5,34	5,63	4,46	5,22	5,14	5,30
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005	<0,000003
Cobalt	Co	mg/l	0,000067	0,000056	0,000057	0,000064	0,000053	0,000052	0,000095	0,000042	0,000049	0,000082	0,000055
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,011	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,024	0,035	0,020	0,031	0,028	0,029	0,021	0,022	0,017	0,031	0,026
Lithium	Li	mg/l	0,0034	0,0035	0,0033	0,0032	0,0028	0,0032	0,0034	0,0027	0,0031	0,0035	0,0032
Magnésium	Mg	mg/l	0,192	0,211	0,184	0,188	0,171	0,181	0,189	0,146	0,161	0,170	0,168
Manganese	Mn	mg/l	0,00567	0,00499	0,00464	0,00540	0,00467	0,00518	0,00511	0,00420	0,00525	0,00529	0,00513
Molybdène	Mo	mg/l	<0,0011	<0,0004	<0,0029	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,12	0,13	0,12	0,12	0,12	0,13	0,11	0,11	0,11	0,13	0,12
Nickel	Ni	mg/l	0,0003	0,0001	0,0001	0,0004	0,0002	0,0002	0,0002	0,0001	0,0002	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00017	<0,00009	<0,0001	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0027	0,0038	0,0031	0,0036	0,0026	0,0033	0,0029	0,0027	0,0031	0,0027	0,0030
Sélénium	Se	mg/l	0,00006	0,00007	0,00009	0,00010	0,00009	0,00011	0,00010	0,00008	0,00011	0,00004	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00019	<0,00006	<0,00009	<0,00032	<0,00006	<0,00011	<0,00012	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00490	0,00400	0,00384	0,00382	0,00335	0,00365	0,00393	0,00297	0,00337	0,00330	0,00355
Titane	Ti	mg/l	0,0005	<0,00012	<0,0002	0,0001	0,0002	<0,00013	0,0001	<0,00011	<0,00012	<0,00013	<0,00017
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000571	0,000334	0,000026	0,000128	0,000070	0,000024	0,000200	0,000016	0,000132	0,000033	0,000176
Vanadium	V	mg/l	0,00218	0,00232	0,00201	0,00223	0,00208	0,00229	0,00209	0,00174	0,00194	0,00182	0,00212
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0015					0,0015				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0004					0,0003				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1009	1000	1005	987	1001	991	1013	991	959	983	984
pH	pH	No unit	7,27	7,65	7,59	7,53	7,58	7,42	7,24	7,21	7,32	7,41	7,36
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	12	13	11	12	13	11	11		11	
Conductivité	Conductivité	µS/cm	28	19	25	26	24	26	26	24	24	26	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,096	0,081	0,071	0,094	0,082	0,088	0,088	0,081		0,101	
Arsenic	As	mg/l	0,0242	0,0223	0,0209	0,0235	0,0238	0,0242	0,0250	0,0212		0,0253	
Baryum	Ba	mg/l	0,00011	0,00010	0,00008	0,00014	0,00012	0,00014	0,00011	0,00014		0,00012	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	5,00	4,93	4,83	5,28	4,93	4,95	4,66	4,81		5,07	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000006	
Cobalt	Co	mg/l	0,000059	0,000052	0,000051	0,000183	0,000065	0,000203	0,000050	0,000066		0,000065	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00012	<0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,011	
Potassium	K	mg/l	0,022	0,024	0,031	0,032	0,022	0,023	0,026	0,020		0,036	
Lithium	Li	mg/l	0,0030	0,0026	0,0024	0,0029	0,0029	0,0029	0,0029	0,0027		0,0024	
Magnésium	Mg	mg/l	0,150	0,147	0,144	0,157	0,155	0,165	0,144	0,143		0,152	
Manganese	Mn	mg/l	0,00493	0,00514	0,00479	0,00471	0,00509	0,00536	0,00482	0,00471		0,00520	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0127	
Sodium	Na	mg/l	0,13	0,10	0,10	0,11	0,11	0,11	0,09	0,10		0,15	
Nickel	Ni	mg/l	0,0001	0,0007	0,0002	0,0004	0,0003	0,0005	0,0002	0,0004		0,0002	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0023	0,0026	0,0021	0,0024	0,0025	0,0025	0,0026	0,0022		0,0024	
Sélénium	Se	mg/l	0,00007	0,00006	0,00004	0,00007	0,00006	0,00005	0,00007	0,00005		0,00009	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00355	0,00329	0,00261	0,00323	0,00314	0,00333	0,00315	0,00300		0,00327	
Titane	Ti	mg/l	<0,00017	<0,0001	<0,0002	<0,0002	<0,00016	<0,00011	<0,00013	0,0002		<0,00058	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000082	0,000025	0,000037	0,000027	0,000030	0,000017	0,000016	0,000017		0,000013	
Vanadium	V	mg/l	0,00184	0,00165	0,00133	0,00186	0,00178	0,00185	0,00193	0,00158		0,00209	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0013					0,0013				0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0004					0,0003				0,0003	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	990	1011	1015	939	970	983	1007	1000	1012	989	1007
pH	pH	No unit	7,56	7,74	7,50	7,10	7,48	7,44	7,49	7,37	7,58	7,50	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$			13				12				12
Conductivité	Conductivité	µS/cm	27	28	29	22	25	34	24	28	25	31	24
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,081				0,069				0,077
Arsenic	As	mg/l			0,0214				0,0187				0,0194
Baryum	Ba	mg/l			0,00010				0,00015				0,00010
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			5,04				4,98				4,93
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000048				0,000178				0,000044
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,029				0,024				0,017
Lithium	Li	mg/l			0,0030				0,0024				0,0026
Magnésium	Mg	mg/l			0,140				0,130				0,132
Manganese	Mn	mg/l			0,00499				0,00508				0,00520
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,11				0,10				0,11
Nickel	Ni	mg/l			0,0002				0,0003				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0024				0,0021				0,0019
Sélénium	Se	mg/l			0,00006				0,00006				0,00005
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00306				0,00263				0,00293
Titane	Ti	mg/l			<0,0002				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000021				0,000020				0,000016
Vanadium	V	mg/l			0,00168				0,00136				0,00161
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0014				0,0012				0,0013
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0006				0,0003				0,0004
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1001	1003	997	1004	991	990	991	1004	993	1015	1024
pH	pH	No unit	7,35	7,25	7,31	7,48	7,18	7,24	7,42	7,43	7,68	7,39	7,46
Alkalinité	Alkalinité	$mgCaCO_3/l$				<11,0				11			
Conductivité	Conductivité	µS/cm	26	26	24	24	24	23	27	24	27	27	28
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,084				0,061			
Arsenic	As	mg/l				0,0202				0,0172			
Baryum	Ba	mg/l				0,00011				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,69				4,61			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000043				0,00005			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,020				0,02			
Lithium	Li	mg/l				0,0027				0,0024			
Magnésium	Mg	mg/l				0,121				0,112			
Manganese	Mn	mg/l				0,00470				0,005			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,10				0,08			
Nickel	Ni	mg/l				0,0001				0,0004			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0018				0,0017			
Sélénium	Se	mg/l				0,00004				0,00006			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00286				0,00258			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000047				0,000007			
Vanadium	V	mg/l				0,00160				0,00142			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0009				0,0012			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0002				0,0002			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1014	994
pH	pH	No unit	7,14	6,88
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	
Conductivité	Conductivité	µS/cm	27	31
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,078	
Arsenic	As	mg/l	0,0164	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	4,79	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000059	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,021	
Lithium	Li	mg/l	0,0023	
Magnésium	Mg	mg/l	0,124	
Manganese	Mn	mg/l	0,00567	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,09	
Nickel	Ni	mg/l	0,0002	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0015	
Sélénium	Se	mg/l	0,00005	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00282	
Titane	Ti	mg/l	<0,00011	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00134	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0003	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-14

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	997	1013	1018	998	989	1020	1012	1019	1000	987	977
pH	pH	No unit	6,95	6,8	7,17	7,01	6,85	6,74	7,33	6,98	6,85	7,11	7,11
Alkalinité	Alkalinité	$mgCaCO_3/l$			13				<11,0				<8,0
Conductivité	Conductivité	µS/cm	27	28	25	28	24	25	25	27	24	24	21
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,075				0,079				0,066
Arsenic	As	mg/l			0,0193				0,0161				0,0135
Baryum	Ba	mg/l			0,00018				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,87				4,62				4,10
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000052				0,000047				0,000049
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,022				0,024				0,021
Lithium	Li	mg/l			0,0024				0,0026				0,0019
Magnésium	Mg	mg/l			0,118				0,11				0,096
Manganese	Mn	mg/l			0,00561				0,00512				0,00432
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,09				0,09				0,07
Nickel	Ni	mg/l			0,0002				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0017				<0,0015				<0,0013
Sélénium	Se	mg/l			0,00006				0,00004				0,00005
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00294				0,00266				0,00213
Titane	Ti	mg/l			<0,0001				<0,00012				<0,00017
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,00001				0,000024				0,000077
Vanadium	V	mg/l			0,00154				0,0014				0,00121
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0013				0,0013				0,0011
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0003				0,0004				0,0003
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	821	939	955	992	974	1001	982	995	976	927	927
pH	pH	No unit	7,65	7,44	7,22	7,40	7,18	6,98	7,01	7,29	7,07	7,12	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	7	6	8	6	6	4	6	6	4	4
Conductivité	Conductivité	µS/cm	28	31	30	33	20	26	18	18	16	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,12	<0,08	<0,11	<0,08	<0,06	<0,07	<0,1	<0,04	<0,08
Sulfate	SO_4^{2-}	mg/l	2	3	4	4	3	2	2	2	3	3	3
Chlore	Cl^-	mg/l	2	3	3	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,090	0,040	0,029	0,028	0,024	0,020	0,031	0,027	0,033	0,039	0,038
Arsenic	As	mg/l	0,0195	0,1800	0,2810	0,3080	0,3430	0,2930	0,2470	0,2780	0,2720	0,2830	0,3490
Baryum	Ba	mg/l	0,00022	0,00014	0,00014	0,00013	0,00015	0,00059	0,00012	0,00018	0,00014	0,00013	0,00014
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,007	0,016	0,014	0,013	0,013	0,008	0,006	0,007	0,006	0,006	0,007
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,56	2,86	2,43	2,35	2,39	2,56	1,92	2,29	2,00	2,02	2,20
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000005
Cobalt	Co	mg/l	0,000028	0,000053	0,000092	0,000101	0,000114	0,000217	0,000109	0,000160	0,000147	0,000143	0,000133
Chrome	Cr	mg/l	0,00010	0,00017	<0,00009	0,00011	<0,00008	<0,00008	<0,0001	<0,00014	<0,00008	0,00017	<0,00012
Cuivre	Cu	mg/l	0,0004	0,0004	<0,0002	<0,0002	0,0003	0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0006
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009	0,008	<0,008	0,010	0,020
Potassium	K	mg/l	0,29	0,27	0,24	0,217	0,182	0,164	0,134	0,122	0,135	0,112	0,138
Lithium	Li	mg/l	0,0148	0,0229	0,0230	0,0202	0,0189	0,0166	0,0139	0,0145	0,0152	0,0141	0,0187
Magnésium	Mg	mg/l	0,237	0,368	0,367	0,359	0,330	0,368	0,290	0,330	0,312	0,302	0,398
Manganese	Mn	mg/l	0,00034	0,00078	0,00094	0,00076	0,00081	0,00151	0,00081	0,00073	0,00077	0,00055	0,00063
Molybdène	Mo	mg/l	0,00024	0,00083	0,00075	0,00165	0,00046	0,00041	0,00039	0,00180	0,00038	0,00046	0,00082
Sodium	Na	mg/l	2,31	3,10	2,58	2,15	1,38	1,17	0,84	0,86	0,73	0,73	0,79
Nickel	Ni	mg/l	0,0002	0,0005	0,0005	0,0006	0,0007	0,0010	0,0005	0,0008	0,0006	0,0005	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0034	0,0234	0,0224	0,0278	0,0260	0,0272	0,0193	0,0230	0,0171	0,0174	0,0209
Sélénium	Se	mg/l	0,00004	0,00008	0,00018	0,00004	0,00008	0,00008	0,00014	0,00005	0,00007	0,00010	0,00004
Etain	Sn	mg/l	0,00024	0,00012	0,00011	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0090	0,0102	0,00998	0,0092	0,00946	0,0090	0,0074	0,00828	0,0075	0,00766	0,0088
Titane	Ti	mg/l	0,00013	0,00023	0,00021	0,00037	0,00030	<0,00032	0,00062	0,00032	0,00041	0,00052	0,00037
Thallium	Th	mg/l	0,000013	<0,000006	0,000009	<0,000005	<0,000008	0,000006	<0,000006	<0,000007	<0,000007	<0,000007	<0,000007
Uranium	U	mg/l	0,000041	0,000080	0,000114	0,000465	0,000354	0,000084	0,000155	0,000195	0,00012	0,000714	0,000186
Vanadium	V	mg/l	0,00105	0,00193	0,00199	0,00194	0,00201	0,00171	0,00148	0,00169	0,00158	0,00178	0,00198
Tungstène	W	mg/l	0,00022	0,00057	0,00062	0,00769	0,00033	0,00023	0,00020	0,00017	0,00015	0,00016	0,00021
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00002	0,00003	0,00003	0,00003	<0,00001	0,00003	0,00002	0,00003	0,00003	0,00004
Césium (total)	Cs	mg/l	0,0172	0,0106	0,0100	0,0090	0,0086	0,0068	0,0068	0,0065	0,0071	0,0059	0,0063
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0072	0,0051	0,0041	0,0036	0,0034	0,0031	0,0026	0,0028	0,0025	0,0025	0,0029
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	999	996	986	962	904	1001	960	984	982	1004	994
pH	pH	No unit	6,97	7,16	6,96	6,92	6,72	7,11	7,02	7,24	7,14	7,04	6,93
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	4	3	5	4	4	6	3	5	6
Conductivité	Conductivité	µS/cm	14	15	13	11	14	15	12	15	12	14	14
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,07	<0,06	<0,09	<0,09	<0,09	<0,05	<0,09	<0,03	<0,04	<0,05
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00013	<0,00005
Aluminum	Al	mg/l	0,057	0,026	0,026	0,034	0,039	0,017	0,027	0,029	0,233	0,022	0,029
Arsenic	As	mg/l	0,2890	0,2700	0,2380	0,2150	0,3420	0,2980	0,2860	0,3180	0,2630	0,2420	0,207
Baryum	Ba	mg/l	0,00013	0,00012	0,00008	0,00012	0,00015	0,00012	0,00009	0,00015	0,00023	0,00024	0,0002
Beryllium	Be	mg/l	0,000009	<0,000007	<0,000007	<0,000009	<0,000007	<0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,004	0,004	0,003	0,004	0,004	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,69	1,79	1,29	1,56	1,86	1,67	1,72	2,24	1,95	2,11	2,15
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000264	0,000199	0,000140	0,000140	0,000159	0,000119	0,000123	0,000127	0,000125	0,000172	0,000176
Chrome	Cr	mg/l	0,00044	0,00011	0,00034	<0,00026	<0,00011	0,00016	<0,0001	0,00015	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0004	0,0002	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,047	0,043	<0,008	<0,01	0,015	<0,007	<0,009	0,010	<0,007	<0,007	0,013
Potassium	K	mg/l	0,087	0,084	0,058	0,085	0,114	0,081	0,084	0,096	0,079	0,078	0,066
Lithium	Li	mg/l	0,0160	0,0116	0,0088	0,0102	0,0151	0,0106	0,0115	0,0108	0,0092	0,0096	0,0096
Magnésium	Mg	mg/l	0,336	0,305	0,205	0,267	0,37	0,271	0,307	0,339	0,311	0,313	0,296
Manganese	Mn	mg/l	0,00135	0,00088	0,00209	0,00117	0,00076	0,00038	0,00050	0,00064	0,00055	0,00071	0,00078
Molybdène	Mo	mg/l	0,00029	0,00033	0,00040	0,00051	0,00052	0,00018	0,00034	0,00036	0,00050	0,00035	0,00077
Sodium	Na	mg/l	0,46	0,39	0,30	0,37	0,49	0,26	0,25	0,28	0,24	0,18	0,2
Nickel	Ni	mg/l	0,0006	0,0025	0,0014	0,0007	0,0004	0,0003	0,0003	0,0004	0,0004	0,0006	0,0005
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0198	0,0155	0,0132	0,0110	0,0199	0,0181	0,0134	0,0149	0,0117	0,0109	0,0098
Sélénium	Se	mg/l	0,00007	0,00006	0,00004	0,00005	0,00009	0,00005	0,00007	0,00005	0,00005	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0064	0,0065	0,00490	0,0059	0,0079	0,0062	0,0065	0,0075	0,0070	0,0072	0,00678
Titane	Ti	mg/l	0,00177	0,00047	0,00046	0,00053	0,00056	0,00018	0,00021	0,00043	0,00023	0,00016	0,00044
Thallium	Th	mg/l	0,000014	<0,000007	<0,000005	<0,000005	<0,000006	<0,000005	<0,000006	<0,000005	<0,000006	0,000006	<0,000005
Uranium	U	mg/l	0,000051	0,00016	0,000321	0,000158	0,000204	0,000409	0,00020	0,000216	0,000607	0,00023	0,000378
Vanadium	V	mg/l	0,00184	0,00164	0,00129	0,00128	0,00173	0,00165	0,00170	0,00197	0,00175	0,00161	0,0015
Tungstène	W	mg/l	0,00017	0,00009	0,00008	0,00006	0,00009	0,00005	0,00007	0,00005	0,00007	0,00006	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00003	<0,00001		0,00004		<0,00001	
Césium (total)	Cs	mg/l					0,0064	0,0056		0,0066		0,0055	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0029	0,0022		0,0024		0,0021	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	990	1011	1005	984	1008	1002	972	976	989	994	1008
pH	pH	No unit	6,91	6,86	6,97	6,88	6,77	6,92	6,93	6,91	6,79	6,68	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	4	4	4	3	4	4	3	3	3	4
Conductivité	Conductivité	µS/cm	11	11	12	11	9	9	9	9	11	10	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,05	<0,06	<0,03	<0,05	<0,05	<0,08	<0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				2					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,021	0,024	0,021	0,023	0,023	0,019	0,042	0,03	0,023	0,023	0,028
Arsenic	As	mg/l	0,1920	0,195	0,182	0,161	0,15	0,1560	0,157	0,171	0,18	0,1530	0,1560
Baryum	Ba	mg/l	0,00008	0,00008	0,00012	0,00008	0,0001	0,00008	0,00008	0,00016	0,00013	0,00010	0,00008
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,65	1,71	1,64	1,57	1,45	1,62	1,6	1,28	1,66	1,34	1,68
Cadmium	Cd	mg/l	0,000003	<0,000004	0,000005	<0,000003	<0,000003	0,000003	<0,000007	0,000003	0,000013	0,000003	<0,000003
Cobalt	Co	mg/l	0,000139	0,000137	0,000125	0,000146	0,00014	0,000136	0,000184	0,00015	0,000148	0,000132	0,000254
Chrome	Cr	mg/l	<0,00008	<0,00013	<0,00008	<0,0002	<0,00008	<0,00008	<0,00016	<0,00012	<0,00008	<0,00008	<0,00012
Cuivre	Cu	mg/l	<0,0009	<0,0011	0,0002	<0,0018	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,015	<0,007	<0,01	<0,007	<0,007	<0,017	<0,011	<0,007	<0,007	<0,011
Potassium	K	mg/l	0,064	0,06	0,063	0,062	0,058	0,040	0,048	0,027	0,051	0,042	0,039
Lithium	Li	mg/l	0,0075	0,0076	0,0072	0,006	0,0055	0,0056	0,0067	0,0054	0,0074	0,0063	0,0064
Magnésium	Mg	mg/l	0,240	0,245	0,244	0,261	0,197	0,228	0,223	0,204	0,259	0,208	0,231
Manganese	Mn	mg/l	0,00047	0,00032	0,00074	0,00052	0,0005	0,00041	0,00112	0,00075	0,00072	0,00039	0,00079
Molybdène	Mo	mg/l	0,00049	0,00122	0,00039	0,00097	0,00035	0,00022	0,00044	0,00025	0,00023	0,00029	0,00027
Sodium	Na	mg/l	0,14	0,15	0,31	0,24	0,15	0,13	0,15	0,1	0,12	0,11	0,14
Nickel	Ni	mg/l	0,0005	0,0004	0,0004	0,0004	0,0004	0,0003	0,0005	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00011	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	0,0085	0,0092	0,008	0,008	0,0062	0,0084	0,0059	0,0071	0,0081	0,0067	0,0070
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00007	0,00004	0,00005	0,00005	0,00006	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0057	0,00582	0,00538	0,00642	0,00477	0,0052	0,00485	0,00487	0,00522	0,0045	0,0055
Titane	Ti	mg/l	0,00014	<0,00016	0,00017	0,00018	0,00012	0,00015	<0,00051	0,00046	0,00021	0,00019	<0,00032
Thallium	Th	mg/l	0,000006	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000009	<0,000005	<0,000005
Uranium	U	mg/l	0,000210	0,000225	0,000167	0,000155	0,000163	0,000568	0,000258	0,000165	0,000222	0,00017	0,000170
Vanadium	V	mg/l	0,00136	0,00138	0,00125	0,00121	0,00111	0,00111	0,00123	0,0011	0,00121	0,00115	0,00110
Tungstène	W	mg/l	0,00004	0,00004	0,00004	0,00002	0,00004	0,00002	0,00003	0,00004	0,00003	0,00003	0,00003
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0046					0,004		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0014					0,0013		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	960	985	1001	996	998	997	1000	945	1020	981	918
pH	pH	No unit	6,91	6,76	6,98	7,07	7,05	6,89	6,95	6,78	6,91	6,86	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	3	6	5	5	5	4	2	3	2	2
Conductivité	Conductivité	µS/cm	10	12	13	13	13	12	12	8	8	6	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,016	0,022	0,020	0,020	0,026	0,026	0,031	0,033	0,044	0,045
Arsenic	As	mg/l	0,1460	0,1350	0,1330	0,1190	0,1140	0,1290	0,1320	0,0968	0,1120	0,1050	0,1250
Baryum	Ba	mg/l	0,00009	0,00008	0,00026	0,00008	0,00012	0,00016	0,00017	0,00010	0,00010	0,00012	0,00020
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,60	1,60	1,94	1,90	1,81	1,87	1,88	1,32	1,19	1,02	1,34
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000006	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000120	0,000114	0,000158	0,000154	0,000147	0,000167	0,000133	0,000186	0,000133	0,000270	0,000232
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00009	<0,00019	<0,00017
Cuivre	Cu	mg/l	<0,0003	0,0008	<0,0002	<0,0002	0,0003	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,026	<0,008	<0,023	<0,022
Potassium	K	mg/l	0,035	0,029	0,038	0,044	0,047	0,050	0,050	0,041	0,032	0,012	0,032
Lithium	Li	mg/l	0,0058	0,0053	0,0060	0,0064	0,0058	0,0053	0,0054	0,0042	0,0041	0,0033	0,0046
Magnésium	Mg	mg/l	0,213	0,190	0,235	0,236	0,221	0,241	0,228	0,177	0,156	0,139	0,191
Manganese	Mn	mg/l	0,00042	0,00055	0,00097	0,00060	0,00045	0,00068	0,00130	0,00098	0,00060	0,00107	0,00082
Molybdène	Mo	mg/l	0,00476	0,00087	0,00320	0,00019	0,00024	0,00167	0,01081	<0,0006	<0,0004	<0,0004	<0,001
Sodium	Na	mg/l	0,10	0,08	0,10	0,14	0,15	0,12	0,09	0,14	0,14	0,07	0,10
Nickel	Ni	mg/l	0,0003	0,0004	0,0005	0,0004	0,0005	0,0007	0,0006	0,0006	0,0004	0,0006	0,0007
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00017	<0,00056	<0,00009	<0,00016	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0067	0,0058	0,0057	0,0056	0,0057	0,0060	0,0059	0,0041	0,0047	0,0038	0,0045
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00007	0,00004	0,00005	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,0048	0,0059	0,0052	0,0050	0,0059	0,0056	0,00379	0,00543	0,00308	0,00466
Titane	Ti	mg/l	<0,00009	0,00013	<0,00016	0,00023	0,00010	0,00024	0,00016	0,0005	0,0003	<0,00086	<0,0008
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000301	0,000883	0,00022	0,000356	0,000186	0,00224	0,00019	0,000171	0,000151	0,000119	0,000189
Vanadium	V	mg/l	0,00103	0,00104	0,00114	0,00101	0,00091	0,00108	0,00114	0,00087	0,00101	0,00084	0,00096
Tungstène	W	mg/l	0,00003	0,00005	0,00003	0,00002	0,00003	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,01	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00009			
Césium (total)	Cs	mg/l			0,0040					0,0035			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0014					0,0010			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	939	1012	1004	994	978	1000	1004	1015	1002	975	956
pH	pH	No unit	6,87	7,11	7,04	6,98	6,96	6,94	6,91	6,89	7,02	6,77	6,94
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	4	4	4	4	4	4	2	3
Conductivité	Conductivité	µS/cm	9	10	10	10	12	12	12	12	10	7	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,047	0,021	0,014	0,013	0,031	0,021	0,019	0,016	0,019	0,027	0,042
Arsenic	As	mg/l	0,1200	0,1360	0,1070	0,1110	0,1240	0,1040	0,0934	0,0854	0,0957	0,0701	0,0840
Baryum	Ba	mg/l	0,00011	0,00014	0,00008	0,00009	0,00008	0,00010	0,00009	0,00008	0,00014	0,00016	0,00012
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,29	1,68	1,42	1,43	1,70	1,83	1,96	1,74	1,84	1,19	1,33
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000006	<0,000008	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000247	0,000159	0,000109	0,000110	0,000162	0,000149	0,000129	0,000108	0,000125	0,000202	0,000234
Chrome	Cr	mg/l	<0,00024	<0,00008	<0,00008	<0,00008	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008	<0,0001	<0,00015
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,027	<0,007	<0,007	<0,007	<0,008	<0,007	<0,007	<0,007	<0,007	<0,011	<0,022
Potassium	K	mg/l	0,029	0,038	0,020	0,031	0,033	0,035	0,032	0,025	0,025	0,029	0,022
Lithium	Li	mg/l	0,0051	0,0050	0,0043	0,0037	0,0046	0,0043	0,0044	0,0038	0,0042	0,0033	0,0035
Magnésium	Mg	mg/l	0,214	0,230	0,183	0,166	0,207	0,218	0,228	0,192	0,197	0,142	0,172
Manganese	Mn	mg/l	0,00101	0,00047	0,00039	0,00047	0,00054	0,00059	0,00047	0,00037	0,00085	0,00075	0,00093
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,08	0,10	0,06	0,06	0,09	0,08	0,07	0,07	0,07	0,07	0,06
Nickel	Ni	mg/l	0,0006	0,0005	0,0003	0,0005	0,0005	0,0004	0,0004	0,0003	0,0004	0,0007	0,0005
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00016	<0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0047	0,0066	0,0050	0,0050	0,0051	0,0043	0,0040	0,0039	0,0043	0,0027	0,0034
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00045	<0,00006	<0,00014	<0,00011	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00425	0,00501	0,00420	0,00381	0,00456	0,00508	0,00524	0,00442	0,00461	0,00298	0,00355
Titane	Ti	mg/l	0,0011	<0,00027	<0,0001	0,0001	0,0003	<0,00019	0,0001	<0,0001	<0,0001	<0,00039	<0,00085
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000137	0,000274	0,000155	0,000136	0,000201	0,000171	0,000166	0,000135	0,000153	0,000094	0,000091
Vanadium	V	mg/l	0,00107	0,00112	0,00082	0,00083	0,00105	0,00095	0,00087	0,00075	0,00091	0,00070	0,00088
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00002				
Césium (total)	Cs	mg/l		0,0042					0,0040				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0014					0,0014				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	964	1000	984	1014	995	1006	990	943	933	982	973
pH	pH	No unit	6,89	7,28	6,83	6,99	7,00	6,84	6,76	6,54	7,02	6,78	6,85
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	3	3	2	4	2		2	
Conductivité	Conductivité	µS/cm	8	11	7	11	10	8	11	8	9	7	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,05	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,024	0,017	0,014	0,016	0,017	0,016	0,024	0,036		0,028	
Arsenic	As	mg/l	0,0828	0,0924	0,0647	0,0837	0,0917	0,0800	0,0918	0,0744		0,0860	
Baryum	Ba	mg/l	0,00009	0,00009	0,00008	0,00010	0,00009	0,00013	0,00008	0,00013		0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,18	1,66	1,08	1,75	1,81	1,37	1,63	1,27		1,22	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000177	0,000145	0,000138	0,000115	0,000490	0,000119	0,000155	0,000210		0,000119	
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00019	<0,00014	<0,00008	<0,00008	<0,0001	<0,00013		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,009	<0,02		0,020	
Potassium	K	mg/l	0,017	0,028	0,032	0,035	0,027	0,018	0,029	0,020		0,033	
Lithium	Li	mg/l	0,0035	0,0039	0,0029	0,0039	0,0042	0,0035	0,0042	0,0032		0,0031	
Magnésium	Mg	mg/l	0,151	0,189	0,142	0,197	0,211	0,159	0,187	0,158		0,162	
Manganese	Mn	mg/l	0,00058	0,00048	0,00041	0,00048	0,00069	0,00043	0,00076	0,00094		0,00107	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0009	
Sodium	Na	mg/l	0,08	0,07	0,07	0,07	0,08	0,05	0,06	0,06		0,10	
Nickel	Ni	mg/l	0,0003	0,0008	0,0005	0,0004	0,0009	0,0005	0,0005	0,0006		0,0003	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0033	0,0041	0,0025	0,0038	0,0039	0,0032	0,0039	0,0027		0,0034	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00332	0,00442	0,00261	0,00429	0,00441	0,00385	0,00438	0,00333		0,00318	
Titane	Ti	mg/l	<0,00045	<0,00015	<0,0001	<0,0001	<0,0001	<0,00016	<0,00045	0,0007		<0,0003	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000099	0,000136	0,000089	0,000127	0,000140	0,000119	0,000136	0,000084		0,000098	
Vanadium	V	mg/l	0,00080	0,00086	0,00063	0,00081	0,00094	0,00078	0,00096	0,00080		0,00089	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00003					<0,00001				<0,00002	
Césium (total)	Cs	mg/l	0,0028					0,0030				0,0031	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00002					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0010					0,0010				0,0010	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	960	979	972	959	984	959	983	997	1000	986	998
pH	pH	No unit	6,65	6,86	6,70	6,89	6,91	6,56	6,71	7,02	6,97	7,03	7,01
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				4
Conductivité	Conductivité	µS/cm	8	7	7	6	9	9	7	8	6	11	9
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00002				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,026				0,014				0,015
Arsenic	As	mg/l			0,0735				0,0680				0,0645
Baryum	Ba	mg/l			0,00008				0,00009				0,00011
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,11				1,32				1,48
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000152				0,000104				0,000093
Chrome	Cr	mg/l			<0,00013				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,013				<0,007				<0,007
Potassium	K	mg/l			0,021				0,024				0,020
Lithium	Li	mg/l			0,0028				0,0030				0,0032
Magnésium	Mg	mg/l			0,157				0,161				0,168
Manganese	Mn	mg/l			0,00047				0,00031				0,00057
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,07				0,06				0,04
Nickel	Ni	mg/l			0,0004				0,0002				0,0002
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,0001
Antimoine	Sb	mg/l			0,0030				0,0028				0,0026
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00281				0,00293				0,00351
Titane	Ti	mg/l			<0,0005				<0,00013				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000082				0,000115				0,000125
Vanadium	V	mg/l			0,00081				0,00069				0,00077
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00002				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0028				0,0029				0,0032
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0009				0,0009				0,0012
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1001	1003	980	997	988	998	960	978	928	1007	1016
pH	pH	No unit	7,01	6,95	7,20	7,05	7,06	6,95	7,17	6,86	6,69	6,93	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	12	10	13	9	9	10	9	7	8	8	8
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,015				0,015			
Arsenic	As	mg/l				0,0617				0,05			
Baryum	Ba	mg/l				0,00008				0,00008			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,54				1,11			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000083				0,000115			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,019				0,015			
Lithium	Li	mg/l				0,0033				0,0027			
Magnésium	Mg	mg/l				0,153				0,119			
Manganese	Mn	mg/l				0,00030				0,00026			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,06				0,04			
Nickel	Ni	mg/l				0,0003				0,0007			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0026				0,002			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00386				0,00268			
Titane	Ti	mg/l				<0,0001				<0,0002			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000119				0,000059			
Vanadium	V	mg/l				0,00076				0,00063			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0024				0,0028			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0007				0,0007			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1026	991
pH	pH	No unit	6,75	7,39
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	
Conductivité	Conductivité	µS/cm	9	9
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,016	
Arsenic	As	mg/l	0,0533	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	1,24	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000209	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,01	
Lithium	Li	mg/l	0,003	
Magnésium	Mg	mg/l	0,135	
Manganese	Mn	mg/l	0,00045	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,05	
Nickel	Ni	mg/l	0,0004	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0021	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00288	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000042	
Vanadium	V	mg/l	0,00068	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,003	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0008	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-22

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1014	1039	1019	942	944	994	1014	994	979	991	952
pH	pH	No unit	6,7	6,69	6,84	6,41	6,58	6,30	6,88	6,73	6,59	6,92	6,77
Alkalinité	Alkalinité	$mgCaCO_3/l$			4				<3,0				<3,0
Conductivité	Conductivité	µS/cm	12	9	9	9	9	9	6	9	9	10	7
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,015				0,019				0,017
Arsenic	As	mg/l			0,0623				0,0502				0,0424
Baryum	Ba	mg/l			0,00008				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,58				1,16				1,23
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000078				0,000108				0,000082
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,020				0,022				0,020
Lithium	Li	mg/l			0,0029				0,0029				0,0022
Magnésium	Mg	mg/l			0,146				0,125				0,125
Manganese	Mn	mg/l			0,00033				0,00034				0,00024
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,04
Nickel	Ni	mg/l			0,0002				0,0003				0,0003
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0025				<0,002				<0,0019
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,0038				0,00271				0,00251
Titane	Ti	mg/l			<0,0001				<0,00017				<0,00015
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,0001				0,000065				0,000053
Vanadium	V	mg/l			0,00075				0,00061				0,00056
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0033				0,0027				0,0028
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0009				0,0008				0,0007
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	845	956	996	993	998	997	992	984	986	984	1001
pH	pH	No unit	8,36	8,57	8,53	7,86	7,61	7,14	7,29	7,20	7,49	7,33	7,29
Alkalinité	Alkalinité	$mgCaCO_3/l$	15	14	11	12	10	9	7	8	8	9	9
Conductivité	Conductivité	µS/cm	40	37	30	33	22	26	15	20	18	26	24
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,05	<0,03	<0,09	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	2	1	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,165	0,060	0,053	0,038	0,061	0,060	0,047	0,041	0,051	0,020	0,051
Arsenic	As	mg/l	0,0041	0,0041	0,0085	0,0050	0,0054	0,0045	0,0039	0,0051	0,0050	0,0073	0,0106
Baryum	Ba	mg/l	0,00041	0,00032	0,00027	0,00023	0,00025	0,00028	0,00500	0,00026	0,00021	0,00015	0,00023
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,006	0,014	0,013	0,009	0,009	0,005	0,003	0,004	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,93	4,08	3,13	3,12	3,41	3,27	2,35	3,11	3,02	3,07	3,26
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000013	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004
Cobalt	Co	mg/l	0,000050	0,000042	0,000044	0,000056	0,000041	0,000069	0,000043	0,000057	0,000045	0,000034	0,000057
Chrome	Cr	mg/l	0,00008	0,00016	<0,00008	0,00008	<0,00008	<0,0003	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0009	0,0007	<0,0006	<0,0004	0,0006	0,0004	<0,0003	<0,0003	<0,0003	<0,0002	0,0003
Fer	Fe	mg/l	<0,007	0,007	0,008	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,012
Potassium	K	mg/l	0,60	0,55	0,39	0,359	0,310	0,265	0,180	0,201	0,199	0,178	0,173
Lithium	Li	mg/l	0,0167	0,0262	0,0219	0,0200	0,0173	0,0141	0,0103	0,0121	0,0115	0,0125	0,0112
Magnésium	Mg	mg/l	0,319	0,335	0,266	0,312	0,292	0,309	0,204	0,288	0,254	0,276	0,283
Manganese	Mn	mg/l	0,00254	0,01130	0,01114	0,00892	0,00907	0,00972	0,00698	0,00849	0,00806	0,00531	0,00782
Molybdène	Mo	mg/l	0,00029	0,00048	0,00048	0,00029	0,00015	0,00023	0,00044	0,00122	0,00017	0,00018	0,00011
Sodium	Na	mg/l	2,85	3,46	2,12	1,66	1,20	1,01	0,62	0,73	0,58	0,54	0,40
Nickel	Ni	mg/l	0,0002	0,0002	0,0002	0,0003	0,0002	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00011
Antimoine	Sb	mg/l	0,0030	0,0142	0,0105	0,0111	0,0083	0,0091	0,0055	0,0080	0,0055	0,0068	0,0079
Sélénium	Se	mg/l	0,00004	0,00009	0,00017	0,00004	0,00009	0,00009	0,00011	0,00012	0,00009	0,00028	0,00015
Etain	Sn	mg/l	0,00224	0,00095	0,00039	0,00020	0,00011	0,00013	0,00009	0,00008	<0,00006	<0,00006	0,00007
Strontium	Sr	mg/l	0,0070	0,0059	0,00449	0,0048	0,00513	0,0046	0,0034	0,00450	0,0041	0,00454	0,0047
Titane	Ti	mg/l	0,00032	0,00045	0,00049	0,00056	0,00034	<0,0001	0,00032	0,00031	0,00035	0,00018	0,00017
Thallium	Th	mg/l	0,000010	<0,000005	0,000008	<0,000007	<0,000005	0,000008	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000829	0,001630	0,000751	0,001930	0,001710	0,000173	0,000108	0,000107	0,00010	0,001520	0,000192
Vanadium	V	mg/l	0,00196	0,00202	0,00174	0,00159	0,00181	0,00142	0,00109	0,00127	0,00128	0,00072	0,00122
Tungstène	W	mg/l	0,00061	0,00210	0,00176	0,00150	0,00086	0,00043	0,00042	0,00038	0,00030	0,00020	0,00020
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00002	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0070	0,0114	0,0101	0,0110	0,0100	0,0076	0,0066	0,0079	0,0078	0,0056	0,0070
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0043	0,0039	0,0026	0,0026	0,0021	0,0018	0,0013	0,0017	0,0014	0,0013	0,0014
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1003	1003	978	1008	981	1014	995	997	1000	1011	992
pH	pH	No unit	7,34	7,59	7,39	7,25	7,51	7,45	7,24	7,51	7,21	7,28	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	10	7	6	11	8	7	8	6	7	9
Conductivité	Conductivité	µS/cm	20	26	18	18	18	23	18	20	16	19	20
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,033	0,064	0,055	0,057	0,069	0,058	0,070	0,067	0,068	0,066	0,059
Arsenic	As	mg/l	0,0053	0,0053	0,0057	0,0044	0,0056	0,0044	0,0055	0,0057	0,0053	0,0054	0,0069
Baryum	Ba	mg/l	0,00023	0,00030	0,00016	0,00020	0,00024	0,00029	0,00021	0,00031	0,00041	0,00028	0,00023
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,21	3,82	2,72	2,79	3,27	3,38	3,23	3,80	3,11	3,44	3,18
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000070	0,000082	0,000048	0,000045	0,000086	0,000058	0,000043	0,000079	0,000059	0,000082	0,000092
Chrome	Cr	mg/l	0,00008	0,00008	0,00008	<0,00008	<0,00009	0,00008	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0005	0,0004	0,0004	0,0003	<0,0004	<0,0006	0,0005	<0,0004	<0,0005
Fer	Fe	mg/l	0,013	0,073	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,009
Potassium	K	mg/l	0,138	0,141	0,085	0,106	0,110	0,100	0,100	0,106	0,087	0,087	0,067
Lithium	Li	mg/l	0,0115	0,0093	0,0062	0,0061	0,0060	0,0064	0,0065	0,0064	0,0057	0,0059	0,0058
Magnésium	Mg	mg/l	0,261	0,287	0,171	0,189	0,20	0,184	0,190	0,203	0,186	0,180	0,16
Manganese	Mn	mg/l	0,00686	0,01050	0,00597	0,00609	0,00719	0,00867	0,00753	0,01090	0,00737	0,01060	0,0097
Molybdène	Mo	mg/l	0,00006	0,00018	0,00014	0,00013	0,00016	0,00010	0,00133	0,00015	0,00008	0,00078	0,00057
Sodium	Na	mg/l	0,36	0,33	0,21	0,24	0,22	0,19	0,18	0,22	0,19	0,15	0,16
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0049	0,0042	0,0037	0,0032	0,0035	0,0035	0,0032	0,0032	0,0027	0,0030	0,0024
Sélénium	Se	mg/l	0,00013	0,00016	0,00012	0,00014	0,00011	0,00014	0,00014	0,00015	0,00014	0,00012	0,00011
Etain	Sn	mg/l	<0,00006	<0,00054	0,00018	<0,00011	<0,00007	<0,00008	<0,00007	<0,00007	<0,00007	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0042	0,0047	0,00327	0,0034	0,0040	0,0040	0,0036	0,0041	0,0035	0,0037	0,00328
Titane	Ti	mg/l	0,00091	0,00022	0,00019	0,00023	0,00024	0,00035	0,00028	0,00028	0,00015	0,00010	0,0001
Thallium	Th	mg/l	0,000013	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000032	0,00079	0,000179	0,002270	0,000053	0,000585	0,00012	0,000075	0,000133	0,00005	0,000042
Vanadium	V	mg/l	0,00126	0,00122	0,00093	0,00095	0,00099	0,00086	0,00098	0,00099	0,00094	0,00084	0,00074
Tungstène	W	mg/l	0,00027	0,00017	0,00010	0,00010	0,00009	0,00015	0,00016	0,00007	0,00011	0,00008	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0055	0,0058		0,0058		0,0050	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0010	0,0009		0,0009		0,0008	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	988	981	1004	930	961	970	945	975	948	995	954
pH	pH	No unit	7,27	7,08	7,17	7,14	7,22	7,32	7,34	7,26	7,19	7,18	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	6	12	7	6	6	6	6	5	6
Conductivité	Conductivité	µS/cm	14	12	15	29	15	15	13	14	15	15	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,24	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,063	0,074	0,055	0,103	0,063	0,058	0,068	0,055	0,064	0,050	0,062
Arsenic	As	mg/l	0,0043	0,0038	0,004	0,007	0,0046	0,0042	0,0042	0,0041	0,0041	0,0038	0,0043
Baryum	Ba	mg/l	0,00024	0,00013	0,00017	0,00025	0,00019	0,00017	0,00011	0,00021	0,00018	0,00019	0,00013
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000018	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,49	2,29	2,5	5,04	2,81	2,88	2,61	2,36	2,78	2,40	2,40
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000004	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000055	0,000056	0,000063	0,000194	0,000037	0,000052	0,000036	0,000049	0,000041	0,000043	0,000038
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0015	0,0008	<0,0012	<0,0005	<0,0004	<0,0005	0,0006	<0,0005	<0,0004	<0,0004
Fer	Fe	mg/l	<0,007	<0,008	<0,016	<0,018	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,065	0,053	0,049	0,081	0,077	0,060	0,056	0,04	0,062	0,054	0,049
Lithium	Li	mg/l	0,0043	0,0034	0,0044	0,0041	0,0034	0,0036	0,0038	0,0029	0,0044	0,0041	0,0036
Magnésium	Mg	mg/l	0,119	0,108	0,121	0,177	0,117	0,137	0,122	0,106	0,141	0,121	0,115
Manganese	Mn	mg/l	0,00725	0,00661	0,00813	0,0237	0,00884	0,00923	0,00733	0,00933	0,00863	0,00872	0,00835
Molybdène	Mo	mg/l	0,00017	0,00013	0,00007	0,00012	0,00012	0,00032	0,00011	0,00005	0,00026	0,00025	0,00012
Sodium	Na	mg/l	0,12	0,1	0,1	0,18	0,17	0,12	0,12	0,1	0,11	0,09	0,12
Nickel	Ni	mg/l	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	0,0018	0,0021	0,0034	0,0015	0,0015	0,001	0,0013	0,0013	0,0014	0,0010
Sélénium	Se	mg/l	0,00010	0,00009	0,00007	0,0001	0,00017	0,00005	0,00009	0,0001	0,00012	0,00010	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0026	0,00231	0,00277	0,0045	0,00258	0,0026	0,00224	0,00234	0,0024	0,0022	0,0022
Titane	Ti	mg/l	0,00022	<0,00055	0,00029	0,00108	0,00017	0,00028	<0,0002	0,00018	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000038	0,000318	0,000071	0,00162	0,00034	0,000068	0,000124	0,000216	0,00463	0,00003	0,000049
Vanadium	V	mg/l	0,00067	0,00064	0,00066	0,00085	0,00061	0,00063	0,00068	0,0006	0,00063	0,00060	0,00065
Tungstène	W	mg/l	0,00006	0,00005	0,00006	0,00005	0,00005	0,00004	0,00003	0,00004	0,00003	0,00006	0,00003
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00002					<0,00001		
Césium (total)	Cs	mg/l				0,0051					0,0029		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0007					0,0006		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	982	991	988	892	987	1020	952	937	1049	1022	993
pH	pH	No unit	7,23	7,08	7,19	7,29	7,22	7,10	7,19	7,25	7,33	7,42	7,25
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	6	6	8	5	4	7	7	7
Conductivité	Conductivité	µS/cm	18	17	18	15	14	18	13	12	18	17	17
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,055	0,056	0,053	0,066	0,056	0,053	0,068	0,067	0,058	0,057	0,054
Arsenic	As	mg/l	0,0052	0,0037	0,0040	0,0041	0,0036	0,0039	0,0044	0,0040	0,0043	0,0052	0,0046
Baryum	Ba	mg/l	0,00016	0,00018	0,00016	0,00014	0,00017	0,00016	0,00077	0,00017	0,00090	0,00025	0,00041
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,82	2,53	3,07	2,44	2,30	2,99	2,45	2,33	3,23	2,94	3,35
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000004	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000052	0,000041	0,000053	0,000043	0,000046	0,000069	0,000054	0,000041	0,000074	0,000071	0,000112
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	0,0004	<0,0004	<0,0005	0,0007	<0,0009	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,049	0,038	0,049	0,062	0,058	0,054	0,054	0,054	0,057	0,035	0,089
Lithium	Li	mg/l	0,0044	0,0031	0,0039	0,0038	0,0065	0,0038	0,0029	0,0031	0,0035	0,0027	0,0030
Magnésium	Mg	mg/l	0,128	0,104	0,117	0,113	0,103	0,109	0,094	0,096	0,100	0,086	0,093
Manganese	Mn	mg/l	0,00941	0,00864	0,00982	0,00567	0,00754	0,01020	0,00655	0,00576	0,01140	0,00882	0,01220
Molybdène	Mo	mg/l	0,00018	0,00013	0,00022	0,00120	0,00029	0,00224	0,00041	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,08	0,09	0,18	0,11	0,09	0,12	0,14	0,11	0,09	0,17
Nickel	Ni	mg/l	0,0001	0,0001	0,0001	0,0001	0,0003	0,0003	0,0006	0,0002	0,0001	0,0002	0,0005
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00036	0,00009	<0,00009	<0,00047	<0,00009	<0,00009	<0,00009	<0,00031
Antimoine	Sb	mg/l	0,0027	0,0013	0,0018	0,0010	0,0012	0,0018	0,0012	0,0011	0,0017	0,0020	0,0016
Sélénium	Se	mg/l	0,00007	0,00004	0,00009	0,00011	0,00007	0,00007	0,00007	0,00008	0,00008	0,00008	0,00010
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00016
Strontium	Sr	mg/l	0,0030	0,0024	0,0032	0,0024	0,0020	0,0031	0,0037	0,00247	0,00369	0,00299	0,00365
Titane	Ti	mg/l	<0,00007	0,00017	<0,00007	0,00033	0,00020	0,00009	0,00027	0,0004	0,0001	<0,0001	<0,00011
Thallium	Th	mg/l	<0,000009	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,003100	0,000023	0,00004	0,000260	0,000091	0,00006	0,00019	0,000043	0,000585	0,000147	0,000847
Vanadium	V	mg/l	0,00058	0,00061	0,00065	0,00068	0,00051	0,00058	0,00060	0,00061	0,00067	0,00061	0,00058
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00003	0,00003	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,008
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0031					0,0030			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0006					0,0005			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1000	1004	987	998	916	951	971	1012	1000	996	982
pH	pH	No unit	7,21	7,40	7,36	7,39	7,26	7,47	7,24	7,24	7,45	7,34	7,37
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	7	6	5	5	5	7	7	7	5
Conductivité	Conductivité	µS/cm	17	13	16	13	12	12	12	16	15	14	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,048	0,051	0,053	0,052	0,062	0,051	0,064	0,049	0,066	0,052	0,067
Arsenic	As	mg/l	0,0040	0,0035	0,0043	0,0043	0,0042	0,0040	0,0042	0,0040	0,0039	0,0051	0,0039
Baryum	Ba	mg/l	0,00018	0,00018	0,00014	0,00013	0,00011	0,00013	0,00011	0,00013	0,00020	0,00043	0,00018
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,68	2,72	2,51	2,36	1,92	1,89	2,30	2,83	3,05	2,74	2,40
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000067	0,000069	0,000055	0,000048	0,000057	0,000050	0,000043	0,000075	0,000074	0,000079	0,000062
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,038	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,034	0,043	0,025	0,040	0,029	0,034	0,028	0,044	0,031	0,037	0,027
Lithium	Li	mg/l	0,0026	0,0021	0,0022	0,0020	0,0017	0,0015	0,0020	0,0023	0,0020	0,0022	0,0017
Magnésium	Mg	mg/l	0,076	0,072	0,064	0,070	0,055	0,063	0,067	0,070	0,071	0,066	0,059
Manganese	Mn	mg/l	0,00880	0,00913	0,00737	0,00735	0,00442	0,00579	0,00571	0,00914	0,00953	0,00866	0,00746
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,07	0,06	0,06	0,07	0,08	0,06	0,07	0,08	0,08	0,06
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0003	0,0001
Plomb	Pb	mg/l	<0,00019	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0013	0,0012	0,0011	0,0010	0,0009	0,0009	0,0009	0,0012	0,0011	0,0014	0,0009
Sélénium	Se	mg/l	0,00006	0,00006	0,00009	0,00025	0,00008	0,00006	0,00008	0,00007	0,00006	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00011	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00288	0,00259	0,00237	0,00199	0,00170	0,00175	0,00215	0,00264	0,00268	0,00241	0,00209
Titane	Ti	mg/l	0,0001	<0,00013	<0,0001	0,0001	0,0001	<0,00014	0,0001	<0,00011	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000200	0,000023	0,000020	0,000024	0,000020	0,000038	0,000077	0,000060	0,000032	0,000077	0,000018
Vanadium	V	mg/l	0,00047	0,00052	0,00046	0,00044	0,00050	0,00048	0,00054	0,00044	0,00049	0,00045	0,00052
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0027					0,0022				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0005					0,0004				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1002	996	1011	970	983	977	965	951	969	948	955
pH	pH	No unit	7,39	7,32	7,28	7,14	7,25	7,09	6,95	6,73	6,96	7,04	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	5	5	5	4	4	4		5	
Conductivité	Conductivité	µS/cm	15	12	11	11	10	10	10	10	11	10	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,054	0,052	0,043	0,066	0,055	0,072	0,059	0,057		0,064	
Arsenic	As	mg/l	0,0039	0,0035	0,0033	0,0040	0,0038	0,0037	0,0038	0,0043		0,0042	
Baryum	Ba	mg/l	0,00031	0,00012	0,00015	0,00018	0,00016	0,00016	0,00011	0,00014		0,00014	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,71	2,34	2,13	2,48	2,14	1,95	1,76	1,81		1,91	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000013	<0,000003	<0,000003	<0,000004	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000070	0,000070	0,000064	0,000058	0,000062	0,000052	0,000228	0,000045		0,000040	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,00017	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,031	0,030	0,035	0,039	0,027	0,026	0,028	0,025		0,041	
Lithium	Li	mg/l	0,0021	0,0016	0,0015	0,0017	0,0016	0,0017	0,0015	0,0015		0,0015	
Magnésium	Mg	mg/l	0,061	0,056	0,055	0,065	0,059	0,057	0,058	0,053		0,058	
Manganese	Mn	mg/l	0,00877	0,00756	0,00713	0,00704	0,00677	0,00604	0,00601	0,00479		0,00448	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,035	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,09	0,06	0,07	0,10	0,06	0,06	0,05	0,06		0,10	
Nickel	Ni	mg/l	0,0001	0,0007	0,0001	0,0001	0,0002	0,0002	0,0008	0,0001		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0010	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009		0,0009	
Sélénium	Se	mg/l	0,00006	0,00005	0,00004	0,00004	0,00006	0,00005	0,00007	0,00005		0,00007	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00238	0,00204	0,00167	0,00262	0,00184	0,00181	0,00154	0,00163		0,00165	
Titane	Ti	mg/l	<0,0001	<0,00016	<0,0001	<0,0002	<0,00019	<0,00015	<0,00015	0,0002		<0,00021	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000023	0,000017	0,000012	0,000020	0,000015	0,000009	0,000006	0,000008		0,000007	
Vanadium	V	mg/l	0,00048	0,00048	0,00036	0,00050	0,00051	0,00046	0,00047	0,00045		0,00057	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0022					0,0017				0,0019	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00003	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0004					0,0003				0,0003	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	966	953	995	957	983	929	997	1010	1005	962	1014
pH	pH	No unit	6,95	7,18	6,85	6,81	7,10	7,13	7,22	7,39	7,26	7,15	7,42
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				6				5
Conductivité	Conductivité	µS/cm	12	12	11	10	12	12	12	14	12	12	12
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,050				0,047				0,054
Arsenic	As	mg/l			0,0034				0,0030				0,0029
Baryum	Ba	mg/l			0,00011				0,00018				0,00013
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,07				2,54				2,16
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000041				0,000049				0,000052
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,032				0,035				0,021
Lithium	Li	mg/l			0,0016				0,0016				0,0014
Magnésium	Mg	mg/l			0,058				0,055				0,049
Manganese	Mn	mg/l			0,00459				0,00574				0,00551
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,08				0,08
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0009				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00186				0,00203				0,00168
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000011				0,000013				0,000011
Vanadium	V	mg/l			0,00042				0,00038				0,00044
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0019				0,0020				0,0018
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0004				0,0004				0,0005
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	958	1009	988	1018	995	983	1002	1007	1012	1045	1042
pH	pH	No unit	7,07	7,12	6,95	7,10	7,05	7,04	7,1	7,13	7,11	7,33	7,2
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				5			
Conductivité	Conductivité	µS/cm	11	14	13	14	14	13	14	10	11	17	20
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,048				0,039			
Arsenic	As	mg/l				0,0030				0,0028			
Baryum	Ba	mg/l				0,00014				0,00025			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,80				2,14			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000058				0,000068			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,025				0,024			
Lithium	Li	mg/l				0,0017				0,0013			
Magnésium	Mg	mg/l				0,054				0,041			
Manganese	Mn	mg/l				0,00848				0,00569			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,05			
Nickel	Ni	mg/l				0,0001				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00228				0,00166			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000010				0,000006			
Vanadium	V	mg/l				0,00042				0,00037			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0016				0,0018			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0003				0,0003			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1030	1004
pH	pH	No unit	6,94	7,1
Alkalinité	Alkalinité	mg$CaCO_3$/l	7	
Conductivité	Conductivité	µS/cm	10	15
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,059	
Arsenic	As	mg/l	0,0045	
Baryum	Ba	mg/l	0,00021	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,97	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000063	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,022	
Lithium	Li	mg/l	0,0015	
Magnésium	Mg	mg/l	0,055	
Manganese	Mn	mg/l	0,00974	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,06	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00005	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00216	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00038	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0025	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0005	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-33

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1040	1032	996	1016	1004	974	972	1009	1007	1021	1018
pH	pH	No unit	6,81	7,16	7,05	7,16	6,86	7,25	7,24	7,1	6,82	7,12	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				<5,0				<6,0
Conductivité	Conductivité	µS/cm	16	20	11	16	12	12	11	18	15	17	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,073				0,058				0,060
Arsenic	As	mg/l			0,0034				0,003				0,0031
Baryum	Ba	mg/l			0,00022				0,00017				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,2				2,07				2,96
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000045				0,000051				0,000054
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,028				0,027				0,031
Lithium	Li	mg/l			0,001				0,0013				0,0012
Magnésium	Mg	mg/l			0,044				0,043				0,051
Manganese	Mn	mg/l			0,00626				0,00612				0,00990
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,06
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00005				0,00004				0,00004
Etain	Sn	mg/l			0,00012				<0,00006				<0,00009
Strontium	Sr	mg/l			0,00155				0,0015				0,00196
Titane	Ti	mg/l			<0,0002				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000009				0,000007				0,000041
Vanadium	V	mg/l			0,00046				0,00035				0,00043
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0017				0,0016				0,0020
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0003				0,0003				0,0003
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	823	1004	1002	1009	992	994	989	964	961	961	952
pH	pH	No unit	8,49	7,94	7,72	7,87	7,74	7,51	7,26	7,46	7,38	7,57	7,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	17	26	21	15	17	14	9	12	9	8	7
Conductivité	Conductivité	µS/cm	37	80	62	64	47	49	29	34	25	27	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,05	<6,36	<4,3	<3,22	<3,07	<2,23	<1,64	<1,97	<1,33	<1,37	<1,22
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	2	2	2	2	2
Chlore	Cl^-	mg/l	1	7	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,006	0,004	0,003	0,003	0,001	0,004	0,003	0,004	0,003	0,004
Arsenic	As	mg/l	0,1950	19,6000	14,6000	10,9000	10,6000	8,2200	5,1500	6,2800	4,0300	4,1700	3,7900
Baryum	Ba	mg/l	0,00100	0,00304	0,00226	0,00184	0,00191	0,00134	0,00095	0,00133	0,00120	0,00095	0,00098
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000009	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,056	0,140	0,079	0,064	0,058	0,045	0,029	0,037	0,025	0,025	0,026
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,81	6,98	5,74	5,22	5,54	4,90	3,87	4,60	3,68	3,57	3,91
Cadmium	Cd	mg/l	<0,000006	<0,000003	<0,000004	0,000011	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000046	0,000470	0,000484	0,000408	0,000479	0,000452	0,000285	0,000461	0,000369	0,000316	0,000215
Chrome	Cr	mg/l	0,00376	0,00029	<0,00012	0,00015	<0,00008	<0,00008	<0,00015	<0,00013	<0,00017	0,00025	<0,00013
Cuivre	Cu	mg/l	0,0004	0,0002	<0,0002	<0,0002	0,0004	0,0003	<0,0002	<0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,008	0,007	0,007	<0,007	0,007	0,013
Potassium	K	mg/l	0,59	0,55	0,33	0,227	0,204	0,165	0,115	0,110	0,104	0,085	0,091
Lithium	Li	mg/l	0,0232	0,0365	0,0235	0,0160	0,0146	0,0105	0,0070	0,0079	0,0062	0,0058	0,0067
Magnésium	Mg	mg/l	1,480	5,730	3,800	2,710	2,450	2,280	1,300	1,700	1,100	1,010	0,958
Manganese	Mn	mg/l	0,00145	0,00634	0,00572	0,00377	0,00432	0,00539	0,00303	0,00419	0,00288	0,00289	0,00230
Molybdène	Mo	mg/l	0,01230	0,00028	0,00024	0,00028	0,00008	0,00078	0,00047	0,00010	0,00163	0,00226	0,00011
Sodium	Na	mg/l	2,22	2,90	1,27	0,73	0,54	0,37	0,19	0,22	0,17	0,14	0,14
Nickel	Ni	mg/l	0,0021	0,1880	0,1180	0,0862	0,0860	0,0676	0,0308	0,0494	0,0212	0,0183	0,0147
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,1610	3,5300	1,9500	1,8700	1,7200	1,6800	1,0900	1,4400	0,8390	0,9570	0,9500
Sélénium	Se	mg/l	0,00004	0,00019	0,00027	0,00004	0,00014	0,00010	0,00015	0,00014	0,00010	0,00007	0,00007
Etain	Sn	mg/l	0,00272	0,00065	0,00033	0,00023	0,00010	0,00012	0,00008	0,00011	<0,00006	<0,00008	0,00013
Strontium	Sr	mg/l	0,0130	0,0297	0,02110	0,0162	0,01610	0,0125	0,0090	0,00998	0,0076	0,00713	0,0076
Titane	Ti	mg/l	0,00006	0,00009	0,00011	0,00023	0,00007	<0,00006	0,00013	0,00005	0,00015	0,00012	0,00007
Thallium	Th	mg/l	0,000019	<0,000018	0,000019	<0,000008	<0,00001	0,000010	<0,000007	<0,000008	<0,000008	<0,000007	<0,000005
Uranium	U	mg/l	0,000117	0,000946	0,001522	0,000025	0,000270	0,000043	0,002520	0,000308	0,00425	0,005520	0,000439
Vanadium	V	mg/l	0,00121	0,00213	0,00136	0,00104	0,00105	0,00086	0,00058	0,00064	0,00054	0,00052	0,00044
Tungstène	W	mg/l	0,00104	0,00154	0,00120	0,00139	0,00058	0,00037	0,00031	0,00032	0,00021	0,00022	0,00022
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00009	<0,00009	<0,00004	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00002	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0655	0,0605	0,0422	0,0322	0,0307	0,0217	0,0198	0,0194	0,0180	0,0146	0,0160
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0004	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0005	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0172	0,0156	0,0094	0,0069	0,0062	0,0049	0,0033	0,0039	0,0030	0,0028	0,0030
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	980	932	953	977	933	1014	984	986	934	987	982
pH	pH	No unit	7,34	7,39	7,35	7,29	7,49	7,56	7,36	7,53	7,34	7,24	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	9	7	7	11	10	7	10	7	8	8
Conductivité	Conductivité	µS/cm	24	26	24	22	20	32	23	27	21	23	23
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	6	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<1,08	<1,0	<0,91	<0,91	<0,81	<1,21	<0,95	<1,21	<0,8	<0,81	<0,8
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,022	0,004	0,005	0,003	0,004	0,003	0,003	0,002	0,005	0,002	0,004
Arsenic	As	mg/l	2,9500	3,0400	2,7000	2,5700	2,4200	3,4200	2,7500	3,4500	2,0700	2,5700	2
Baryum	Ba	mg/l	0,00079	0,00090	0,00079	0,00072	0,00080	0,00135	0,00098	0,00117	0,00085	0,00076	0,00095
Beryllium	Be	mg/l	0,000014	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,026	0,020	0,019	0,017	0,015	0,021	0,015	0,016	0,011	0,012	0,01
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,33	3,56	3,00	3,22	3,32	3,83	3,32	3,96	3,24	3,36	2,94
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000331	0,000220	0,000211	0,000211	0,000202	0,000235	0,000263	0,000241	0,000200	0,000231	0,000268
Chrome	Cr	mg/l	0,00104	0,00020	0,00058	<0,00037	<0,00014	0,00043	<0,00008	0,00017	<0,00019	<0,00009	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0013	0,0011	0,0012	0,0002	0,0008	<0,0002	<0,0002	0,0002	<0,0002	<0,0003
Fer	Fe	mg/l	0,050	0,039	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,01	<0,007	0,021
Potassium	K	mg/l	0,061	0,063	0,050	0,068	0,072	0,075	0,070	0,081	0,061	0,064	0,048
Lithium	Li	mg/l	0,0062	0,0053	0,0042	0,0043	0,0044	0,0047	0,0044	0,0044	0,0037	0,0040	0,0039
Magnésium	Mg	mg/l	0,944	0,863	0,615	0,751	0,69	0,933	0,845	1,020	0,734	0,816	0,713
Manganese	Mn	mg/l	0,00314	0,00209	0,00395	0,00311	0,00146	0,00191	0,00186	0,00161	0,00145	0,00154	0,00176
Molybdène	Mo	mg/l	0,00004	0,00006	0,00464	0,00033	0,00014	0,00012	0,00021	0,00010	0,00014	0,00007	0,00074
Sodium	Na	mg/l	0,06	0,09	0,07	0,10	0,08	0,08	0,03	0,07	0,06	0,03	0,07
Nickel	Ni	mg/l	0,0123	0,0166	0,0142	0,0113	0,0091	0,0127	0,0127	0,0152	0,0094	0,0118	0,0123
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,8310	0,8500	0,8320	0,7900	0,8540	1,1500	0,8260	1,0500	0,6570	0,9200	0,646
Sélénium	Se	mg/l	0,00009	0,00008	0,00010	0,00007	0,00011	0,00008	0,00009	0,00008	0,00010	0,00010	0,00007
Etain	Sn	mg/l	<0,00007	<0,00006	0,00012	<0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0060	0,0063	0,00550	0,0055	0,0059	0,0066	0,0057	0,0065	0,0052	0,0053	0,00458
Titane	Ti	mg/l	0,00068	0,00009	0,00007	0,00007	0,00009	0,00007	0,00009	0,00007	0,00021	0,00007	0,00007
Thallium	Th	mg/l	0,000016	<0,000008	<0,000005	<0,000005	<0,000007	<0,000005	<0,000006	<0,000005	<0,000007	0,000006	<0,000005
Uranium	U	mg/l	0,000090	0,00229	0,000040	0,000018	0,002990	0,000071	0,00004	0,000233	0,000141	0,00104	0,000663
Vanadium	V	mg/l	0,00041	0,00042	0,00033	0,00033	0,00032	0,00040	0,00035	0,00040	0,00031	0,00036	0,00029
Tungstène	W	mg/l	0,00029	0,00019	0,00017	0,00014	0,00015	0,00016	0,00016	0,00020	0,00013	0,00013	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0135	0,0157		0,0158		0,0135	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0026	0,0027		0,0026		0,0022	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	939	984	996	944	977	1000	938	972	958	987	969
pH	pH	No unit	7,24	7,15	7,27	7,54	7,2	7,18	7,23	7,17	7,11	7,14	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	7	23	6	7	7	6	5	4	6
Conductivité	Conductivité	µS/cm	20	19	21	49	18	19	18	17	18	17	17
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06	0,42	0,62	0,37	0,42	<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,54	<0,75	<1,17	<0,42	<0,62	<0,37	<0,42	<0,38	<0,33	<0,34
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,003	0,003	0,002	0,008	0,005	0,003	0,003	0,003	0,002	0,003	0,004
Arsenic	As	mg/l	1,7200	1,64	2,2	1,7	1,21	1,6700	1,42	1,44	1,19	1,2600	1,3500
Baryum	Ba	mg/l	0,00068	0,00074	0,00076	0,00111	0,00062	0,00078	0,00056	0,00058	0,00067	0,00051	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000012	<0,000007	<0,000007
Bore	B	mg/l	0,009	0,009	0,008	0,007	0,005	0,007	0,006	0,005	0,005	0,005	0,005
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,99	2,84	3,07	7,91	2,7	2,99	2,74	2,27	2,76	2,40	2,35
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000016	0,000003	<0,000003
Cobalt	Co	mg/l	0,000226	0,000266	0,000315	0,000718	0,000243	0,000334	0,000156	0,000223	0,000245	0,000230	0,000240
Chrome	Cr	mg/l	<0,00012	<0,00013	<0,00008	<0,00049	<0,0001	<0,00015	<0,00013	<0,0001	<0,00008	<0,0001	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0002	0,0002	<0,002	<0,0002	<0,0005	<0,0002	0,0003	<0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,032	<0,014	<0,011	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,056	0,056	0,047	0,08	0,073	0,049	0,057	0,041	0,068	0,056	0,053
Lithium	Li	mg/l	0,0036	0,0031	0,0035	0,0034	0,002	0,0024	0,0026	0,0019	0,0029	0,0027	0,0027
Magnésium	Mg	mg/l	0,648	0,641	0,74	1,04	0,512	0,655	0,509	0,475	0,604	0,519	0,501
Manganese	Mn	mg/l	0,00158	0,00199	0,0029	0,00979	0,00275	0,00226	0,00142	0,00172	0,00169	0,00176	0,00173
Molybdène	Mo	mg/l	0,00008	0,00084	0,00019	0,00008	0,00012	0,00013	0,00007	0,00029	0,00004	0,00025	0,00014
Sodium	Na	mg/l	0,03	0,04	0,03	0,08	0,11	0,04	0,05	0,02	0,03	0,02	0,06
Nickel	Ni	mg/l	0,0092	0,0099	0,0129	0,0263	0,0081	0,0101	0,0062	0,0075	0,0075	0,0070	0,0072
Plomb	Pb	mg/l	0,00009	<0,00079	<0,00009	0,0001	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,5760	0,629	0,682	0,641	0,413	0,6950	0,518	0,584	0,518	0,5190	0,4850
Sélénium	Se	mg/l	0,00007	0,00006	0,00008	0,00006	0,0001	0,00007	0,00009	0,00004	0,00008	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00019	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0044	0,00419	0,0048	0,00797	0,00351	0,0039	0,00316	0,00333	0,00342	0,0032	0,0033
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00014	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000006	<0,000006	<0,000006	0,000007	<0,000005	<0,000005	<0,000009	<0,000005	<0,000015
Uranium	U	mg/l	0,000177	0,000032	0,000119	0,000141	0,00302	0,001610	0,000122	0,00282	0,00006	0,00151	0,000168
Vanadium	V	mg/l	0,00024	0,00023	0,00027	0,00041	0,00016	0,00020	0,00021	0,00021	0,00017	0,00018	0,00020
Tungstène	W	mg/l	0,00011	0,00009	0,00012	0,0001	0,00008	0,00010	0,00007	0,00007	0,00008	0,00007	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00003	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0187					0,0123		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0027					0,0024		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	954	993	1000	888	984	996	980	928	1014	1011	993
pH	pH	No unit	7,17	7,02	7,25	7,27	7,17	7,10	6,94	7,05	7,17	7,15	7,06
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	7	6	5	8	4	4	6	5	5
Conductivité	Conductivité	µS/cm	17	17	20	19	15	20	13	13	16	15	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,42	<0,33	<0,44	<0,33	<0,32	<0,5	<0,25	<0,2	<0,38	<0,37	<0,39
Sulfate	SO_4^{2-}	mg/l	2	2	2	3	5	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,002	0,002	0,001	0,003	0,002	0,002	0,004	0,003	0,001	0,001	0,001
Arsenic	As	mg/l	1,3900	1,1300	1,5800	1,1900	0,9510	1,6100	0,9730	0,8630	1,3400	1,2600	1,4200
Baryum	Ba	mg/l	0,00057	0,00045	0,00062	0,00053	0,00048	0,00071	0,00047	0,00058	0,00056	0,00056	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,005	<0,004	<0,005	<0,004	<0,004	0,006	<0,003	<0,003	<0,004	<0,004	<0,003
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,48	2,10	2,66	2,60	2,01	2,73	1,86	2,05	2,25	1,98	2,11
Cadmium	Cd	mg/l	<0,000004	<0,000004	<0,000005	<0,000003	<0,000023	<0,000003	0,000009	<0,000009	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000291	0,000334	0,000369	0,000242	0,000474	0,000397	0,000237	0,000256	0,000294	0,000386	0,000410
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00017	<0,00008	<0,00008	<0,00008	<0,00012	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,009	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,048	0,035	0,045	0,060	0,078	0,051	0,051	0,048	0,035	0,023	0,032
Lithium	Li	mg/l	0,0029	0,0022	0,0026	0,0027	0,1650	0,0026	0,0018	0,0020	0,0017	0,0019	0,0018
Magnésium	Mg	mg/l	0,546	0,463	0,583	0,525	0,508	0,631	0,395	0,438	0,529	0,480	0,477
Manganese	Mn	mg/l	0,00193	0,00231	0,00200	0,00119	0,00144	0,00186	0,00177	0,00143	0,00176	0,00140	0,00162
Molybdène	Mo	mg/l	0,00236	0,00873	0,00011	0,00004	0,00033	0,00031	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,02	0,02	0,03	0,07	1,06	0,02	0,01	0,06	0,03	0,02	0,03
Nickel	Ni	mg/l	0,0091	0,0109	0,0134	0,0069	0,0078	0,0122	0,0067	0,0067	0,0088	0,0107	0,0119
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00031	<0,00009	0,00009	<0,00009	<0,00011	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,5710	0,4010	0,5140	0,5190	0,3920	0,5990	0,3690	0,3820	0,3970	0,4580	0,4090
Sélénium	Se	mg/l	0,00004	0,00004	0,00006	0,00005	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0033	0,0027	0,0035	0,0031	0,0022	0,0034	0,0024	0,00246	0,00210	0,00229	0,00248
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00013	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000036	0,000194	0,00148	0,000266	0,000045	0,00008	0,00003	0,000029	0,000040	0,001220	0,000849
Vanadium	V	mg/l	0,00017	0,00017	0,00018	0,00017	0,00010	0,00016	0,00014	0,00012	0,00015	0,00013	0,00013
Tungstène	W	mg/l	0,00008	0,00006	0,00007	0,00007	0,00005	0,00008	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0114					0,0099			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00002			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0021					0,0016			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1000	1010	989	971	968	990	1005	996	989	1003	972
pH	pH	No unit	7,10	7,23	7,10	7,06	7,13	7,07	7,06	7,12	7,21	7,11	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	6	5	4	5	5	5	7	7	5	5
Conductivité	Conductivité	µS/cm	15	14	13	13	14	15	15	20	16	12	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,36	<0,32	<0,24	<0,25	<0,26	<0,28	<0,3	<0,35	<0,29	<0,18	<0,18
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,001	0,002	0,002
Arsenic	As	mg/l	1,2700	1,1600	0,9100	0,9180	1,0800	1,2100	1,1000	1,3600	1,1200	0,8000	0,7450
Baryum	Ba	mg/l	0,00043	0,00043	0,00032	0,00039	0,00034	0,00049	0,00046	0,00051	0,00045	0,00050	0,00050
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,00155	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,003	<0,003	<0,003	<0,002	<0,005	<0,003	<0,003	<0,003	<0,003	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,01	2,21	1,52	1,81	1,82	2,00	2,24	2,63	2,34	1,90	1,97
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000345	0,000458	0,000328	0,000346	0,000329	0,000395	0,000389	0,000582	0,000430	0,000461	0,000369
Chrome	Cr	mg/l	<0,00008	<0,00015	<0,00008	<0,00008	<0,0001	<0,00008	<0,00008	<0,00016	<0,00009	<0,00014	<0,00013
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,029	0,039	0,019	0,029	0,027	0,035	0,024	0,049	0,023	0,029	0,022
Lithium	Li	mg/l	0,0017	0,0016	0,0013	0,0013	0,0018	0,0016	0,0016	0,0020	0,0015	0,0013	0,0013
Magnésium	Mg	mg/l	0,488	0,518	0,361	0,395	0,413	0,463	0,488	0,584	0,482	0,441	0,452
Manganese	Mn	mg/l	0,00143	0,00167	0,00190	0,00156	0,00130	0,00150	0,00154	0,00207	0,00174	0,00233	0,00190
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0018	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,02	0,01	0,01	0,02	0,03	0,01	0,02	0,02	0,03	0,03
Nickel	Ni	mg/l	0,0106	0,0114	0,0083	0,0083	0,0085	0,0093	0,0105	0,0119	0,0102	0,0096	0,0074
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00011	<0,00009
Antimoine	Sb	mg/l	0,3990	0,4080	0,2980	0,3150	0,3350	0,3370	0,3430	0,4150	0,3700	0,2550	0,2480
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00007	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00239	0,00239	0,00166	0,00186	0,00185	0,00210	0,00222	0,00259	0,00210	0,00165	0,00190
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000048	0,000033	0,000054	0,000014	0,000021	0,000016	0,000021	0,000019	0,000016	0,000011	0,000016
Vanadium	V	mg/l	0,00013	0,00013	0,00008	0,00012	0,00011	0,00013	0,00012	0,00017	0,00015	0,00011	0,00012
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,009	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0093					0,0084				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00002					<0,00003				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0015					0,0014				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	995	1010	982	974	951	973	976	951	969	950	960
pH	pH	No unit	7,29	7,12	7,24	7,34	7,18	7,06	6,90	7,19	7,04	7,23	7,17
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	4	4	6	5	5	5		7	
Conductivité	Conductivité	µS/cm	13	14	12	14	14	14	13	14	16	13	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,03	<0,14	<0,27	<0,21	<0,2	<0,2	<0,13		<0,21	
Sulfate	SO_4^{2-}	mg/l	2	6	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,001	0,002	0,001	0,001	0,002	0,002	0,002	0,002		0,001	
Arsenic	As	mg/l	0,7350	0,8210	0,7250	0,7620	0,9170	0,8420	0,7390	0,8100		0,8070	
Baryum	Ba	mg/l	0,00040	0,00059	0,00041	0,00051	0,00051	0,00051	0,00054	0,00051		0,00041	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,90	2,01	1,83	2,08	2,24	2,11	1,80	2,08		1,94	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000453	0,000512	0,000392	0,000383	0,000303	0,000355	0,000287	0,000273		0,000233	
Chrome	Cr	mg/l	<0,00008	<0,00013	<0,00015	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,024	0,028	0,031	0,035	0,031	0,030	0,031	0,035		0,052	
Lithium	Li	mg/l	0,0014	0,0014	0,0011	0,0014	0,0015	0,0018	0,0013	0,0016		0,0014	
Magnésium	Mg	mg/l	0,422	0,463	0,436	0,498	0,513	0,513	0,423	0,464		0,481	
Manganese	Mn	mg/l	0,00208	0,00215	0,00180	0,00194	0,00167	0,00176	0,00158	0,00148		0,00115	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0005	<0,0004	<0,0004		<0,0005	
Sodium	Na	mg/l	0,03	0,01	0,03	0,01	0,01	0,01	0,01	0,02		0,06	
Nickel	Ni	mg/l	0,0085	0,0096	0,0074	0,0070	0,0062	0,0068	0,0054	0,0055		0,0043	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,2830	0,3190	0,2450	0,2950	0,3170	0,3490	0,2950	0,3730		0,3590	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00183	0,00186	0,00144	0,00176	0,00196	0,00203	0,00158	0,00196		0,00165	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000015	0,000016	0,000014	0,000012	0,000015	0,000017	0,000014	0,000017		0,000018	
Vanadium	V	mg/l	0,00011	0,00012	0,00012	0,00015	0,00014	0,00011	0,00011	0,00012		0,00013	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0066					0,0085				0,0107	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00002	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0012					0,0015				0,0020	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	969	959	976	940	966	955	953	979	985	972	998
pH	pH	No unit	6,94	7,23	6,98	6,80	7,14	7,16	7,00	7,03	7,31	7,23	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				4				5
Conductivité	Conductivité	µS/cm	16	18	13	13	17	16	11	15	13	15	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,14				<0,2				<0,21
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,001				0,001
Arsenic	As	mg/l			0,7750				0,7040				0,6940
Baryum	Ba	mg/l			0,00096				0,00028				0,00032
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,92				1,82				1,89
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000004
Cobalt	Co	mg/l			0,000272				0,000290				0,000388
Chrome	Cr	mg/l			<0,00017				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,044				0,037				0,030
Lithium	Li	mg/l			0,0014				0,0011				0,0012
Magnésium	Mg	mg/l			0,481				0,435				0,448
Manganese	Mn	mg/l			0,00134				0,00110				0,00146
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,01
Nickel	Ni	mg/l			0,0047				0,0045				0,0055
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00074
Antimoine	Sb	mg/l			0,3050				0,2240				0,1980
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00225				0,00129				0,00133
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000020				0,000015				0,000014
Vanadium	V	mg/l			0,00015				0,00011				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0109				0,0088				0,0085
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00002				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0020				0,0015				0,0018
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	970	994	973	1010	1001	956	999	988	1019	1015	1028
pH	pH	No unit	7,03	6,96	7,28	6,93	7	7,08	7,29	7,15	7,23	7,09	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				7			
Conductivité	Conductivité	µS/cm	14	15	13	15	28	15	18	13	17	16	19
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,23				<0,14			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,001			
Arsenic	As	mg/l				0,8730				0,675			
Baryum	Ba	mg/l				0,00037				0,00030			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,33				1,85			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000481				0,000384			
Chrome	Cr	mg/l				<0,00008				<0,00011			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,031				0,022			
Lithium	Li	mg/l				0,0015				0,0011			
Magnésium	Mg	mg/l				0,510				0,405			
Manganese	Mn	mg/l				0,00157				0,00121			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,03				0,01			
Nickel	Ni	mg/l				0,0068				0,0058			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,2680				0,208			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00173				0,00126			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000015				0,000008			
Vanadium	V	mg/l				0,00013				0,00011			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0071				0,0076			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0013				0,0011			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1008	1045
pH	pH	No unit	6,99	7,03
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	
Conductivité	Conductivité	µS/cm	26	18
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,44	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,003	
Arsenic	As	mg/l	1,3	
Baryum	Ba	mg/l	0,00063	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,64	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000821	
Chrome	Cr	mg/l	<0,00023	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,009	
Potassium	K	mg/l	0,044	
Lithium	Li	mg/l	0,002	
Magnésium	Mg	mg/l	0,766	
Manganese	Mn	mg/l	0,0026	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,01	
Nickel	Ni	mg/l	0,0107	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,439	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00249	
Titane	Ti	mg/l	<0,00016	
Thallium	Th	mg/l	0,00001	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00020	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0135	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00003	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0023	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats – CV5-WR-HCT-36

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1029	1049	1019	1019	1006	971	1012	1013	1000	974	976
pH	pH	No unit	7,06	7,18	7,13	7,15	7,06	7,15	7,17	6,87	6,51	6,98	6,95
Alkalinité	Alkalinité	$mgCaCO_3/l$			9				<8,0				<4,0
Conductivité	Conductivité	µS/cm	20	33	18	26	24	20	20	23	18	17	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,08				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,25				<0,26				<0,1
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,002				0,001
Arsenic	As	mg/l			1,1400				1,07				0,5650
Baryum	Ba	mg/l			0,00041				0,00046				0,00027
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,94				3,16				1,99
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000652				0,0007				0,000539
Chrome	Cr	mg/l			<0,00011				<0,00011				<0,00013
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,034				0,041				0,027
Lithium	Li	mg/l			0,0014				0,0015				0,0010
Magnésium	Mg	mg/l			0,587				0,669				0,456
Manganese	Mn	mg/l			0,002				0,00205				0,00142
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,01				0,02				0,01
Nickel	Ni	mg/l			0,0083				0,0083				0,0057
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,243				<0,253				<0,145
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00009				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00189				0,00193				0,00115
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000007				<0,000005
Uranium	U	mg/l			0,000014				0,000031				0,000032
Vanadium	V	mg/l			0,00018				0,00018				0,00011
Tungstène	W	mg/l			<0,0002				<0,0002				<0,00023
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0103				0,0117				0,0078
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00002				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0019				0,0010
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	830	925	1003	1014	972	1004	1009	986	975	939	972
pH	pH	No unit	7,34	7,30	7,22	7,22	7,02	6,82	6,97	7,16	6,89	6,94	6,97
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	7	7	9	4	5	5	7	4	3	3
Conductivité	Conductivité	µS/cm	33	59	59	60	34	45	34	38	20	29	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,17	<0,21	<0,23	<0,2	<0,19	<0,17	<0,15	<0,2	<0,18	<0,16	<0,14
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,05	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	16	18	14	11	10	10	10	8	8	7
Chlore	Cl^-	mg/l	2	2	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,084	0,063	0,051	0,033	0,038	0,010	0,031	0,037	0,033	0,034	0,027
Arsenic	As	mg/l	0,0095	0,0479	0,0661	0,0549	0,0538	0,0588	0,0487	0,0499	0,0515	0,0391	0,0395
Baryum	Ba	mg/l	0,00030	0,00048	0,00063	0,00061	0,00046	0,00084	0,00051	0,00053	0,00046	0,00033	0,00032
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000011	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,016	0,016	0,014	0,012	0,009	0,008	0,008	0,006	0,005	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,14	4,50	4,72	4,66	4,07	4,14	4,02	4,53	3,71	3,40	3,26
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000005	0,000019	0,000003	<0,000005	<0,000005	<0,000006	<0,000008	<0,000005	<0,000015
Cobalt	Co	mg/l	0,000023	0,000081	0,000142	0,000214	0,000204	0,000248	0,000222	0,000277	0,000217	0,000185	0,000188
Chrome	Cr	mg/l	0,00012	0,00010	<0,00008	0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	0,0004	<0,0002	<0,0002	0,0004	0,0002	<0,0003	<0,0002	<0,0003	<0,0002	0,0006
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,016
Potassium	K	mg/l	1,49	1,42	1,42	1,150	0,940	0,861	0,762	0,788	0,653	0,495	0,486
Lithium	Li	mg/l	0,0459	0,0769	0,0654	0,0597	0,0507	0,0405	0,0405	0,0346	0,0301	0,0249	0,0225
Magnésium	Mg	mg/l	0,241	0,604	0,776	0,747	0,619	0,686	0,631	0,744	0,570	0,491	0,513
Manganese	Mn	mg/l	0,00085	0,00235	0,00317	0,00322	0,00301	0,00337	0,00318	0,00368	0,00289	0,00218	0,00231
Molybdène	Mo	mg/l	0,00178	0,00523	0,00366	0,00232	0,00164	0,00133	0,00170	0,00291	0,00058	0,00042	0,00052
Sodium	Na	mg/l	3,58	5,29	3,74	2,39	1,66	1,38	0,97	1,03	0,73	0,55	0,44
Nickel	Ni	mg/l	0,0003	0,0009	0,0009	0,0010	0,0008	0,0008	0,0007	0,0009	0,0005	0,0004	0,0004
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0051	0,0898	0,0903	0,0813	0,0545	0,0630	0,0563	0,0593	0,0372	0,0333	0,0350
Sélénium	Se	mg/l	0,00022	0,00049	0,00051	0,00023	0,00020	0,00017	0,00017	0,00024	0,00015	0,00016	0,00006
Etain	Sn	mg/l	0,00082	0,00201	0,00034	0,00014	0,00016	0,00013	0,00008	0,00009	<0,00007	<0,00007	0,00006
Strontium	Sr	mg/l	0,0074	0,0192	0,02104	0,0201	0,01720	0,0167	0,0163	0,01763	0,0142	0,01321	0,0122
Titane	Ti	mg/l	0,00021	0,00024	0,00025	0,00044	0,00016	<0,00005	0,00023	0,00038	0,00016	0,00018	0,00010
Thallium	Th	mg/l	0,000022	<0,000006	0,000021	<0,000012	<0,000011	0,000013	<0,000013	<0,000013	<0,000012	<0,000008	<0,000008
Uranium	U	mg/l	0,000466	0,001770	0,000421	0,000784	0,000512	0,000440	0,000557	0,002714	0,00920	0,000353	0,000446
Vanadium	V	mg/l	0,00036	0,00078	0,00078	0,00060	0,00066	0,00061	0,00057	0,00063	0,00059	0,00055	0,00051
Tungstène	W	mg/l	0,00045	0,00094	0,00098	0,00066	0,00041	0,00032	0,00041	0,00029	0,00021	0,00015	0,00015
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00003	0,00002	0,00002	0,00004	0,00002	<0,00001	0,00001	0,00003	0,00004	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0127	0,0091	0,0093	0,0093	0,0069	0,0056	0,0058	0,0059	0,0055	0,0040	0,0037
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0005	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0182	0,0107	0,0102	0,0085	0,0071	0,0064	0,0056	0,0063	0,0053	0,0041	0,0038
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	959	930	952	954	900	929	925	936	897	941	945
pH	pH	No unit	6,72	6,74	6,61	6,61	6,40	6,94	6,75	7,02	6,71	6,83	6,62
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	3	2	2	4	2	2	3	2	2	2
Conductivité	Conductivité	µS/cm	26	27	23	23	29	30	23	23	23	21	21
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Fluoride	F	mg/l				<0,13	<0,15	<0,14		<0,19		0,13	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	7	7	6	9	7	6	6	7	<6,0	5
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,050	0,030	0,028	0,024	0,043	0,036	0,040	0,054	0,130	0,026	0,021
Arsenic	As	mg/l	0,0330	0,0342	0,0349	0,0285	0,0391	0,0335	0,0366	0,0428	0,0379	0,0345	0,0312
Baryum	Ba	mg/l	0,00038	0,00047	0,00024	0,00030	0,00036	0,00030	0,00034	0,00050	0,00046	0,00030	0,00026
Beryllium	Be	mg/l	0,000013	<0,000007	<0,000007	<0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,004	0,004	0,003	0,003	0,003	0,003	0,003	0,003	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,78	3,40	2,98	2,90	3,78	3,05	3,02	3,20	3,22	2,77	2,62
Cadmium	Cd	mg/l	<0,000003	<0,000009	<0,000005	<0,000006	0,000006	0,000006	<0,000007	<0,000004	<0,000004	0,000003	<0,000007
Cobalt	Co	mg/l	0,000165	0,000192	0,000181	0,000179	0,000186	0,000146	0,000155	0,000149	0,000143	0,000126	0,000127
Chrome	Cr	mg/l	0,00016	0,00008	0,00026	<0,00008	<0,00008	0,00011	<0,00009	0,00014	<0,00012	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0002	0,0002	0,0003	<0,0002	<0,0002	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,024	0,007	<0,007	<0,007	0,011	<0,008	<0,008	0,015	<0,02	<0,007	0,007
Potassium	K	mg/l	0,406	0,404	0,336	0,357	0,393	0,331	0,332	0,347	0,369	0,305	0,256
Lithium	Li	mg/l	0,0238	0,0190	0,0171	0,0164	0,0220	0,0160	0,0180	0,0164	0,0173	0,0150	0,0148
Magnésium	Mg	mg/l	0,460	0,490	0,401	0,420	0,56	0,386	0,445	0,463	0,530	0,420	0,379
Manganese	Mn	mg/l	0,00220	0,00256	0,00498	0,00185	0,00168	0,00162	0,00200	0,00205	0,00169	0,00161	0,0016
Molybdène	Mo	mg/l	0,00035	0,00105	0,00079	0,00040	0,00030	0,00013	0,00024	0,00029	0,00032	0,00019	0,00057
Sodium	Na	mg/l	0,38	0,37	0,31	0,31	0,37	0,26	0,24	0,26	0,28	0,18	0,18
Nickel	Ni	mg/l	0,0003	0,0005	0,0018	0,0004	0,0004	0,0003	0,0003	0,0004	0,0005	0,0003	0,0003
Plomb	Pb	mg/l	<0,00014	<0,00009	<0,00009	<0,00009	0,00014	0,00012	<0,00011	<0,00014	<0,00025	0,00009	0,00009
Antimoine	Sb	mg/l	0,0293	0,0255	0,0274	0,0235	0,0300	0,0229	0,0235	0,0289	0,0217	0,0252	0,0236
Sélénium	Se	mg/l	0,00015	0,00013	0,00006	0,00009	0,00015	0,00012	0,00013	0,00014	0,00016	0,00010	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0102	0,0119	0,01099	0,0104	0,0141	0,0110	0,0110	0,0117	0,0119	0,0097	0,00877
Titane	Ti	mg/l	0,00096	0,00026	0,00017	0,00021	0,00071	0,00035	0,00048	0,00071	0,00072	0,00013	0,0001
Thallium	Th	mg/l	0,000018	<0,000009	<0,000007	<0,000006	<0,000006	<0,000007	<0,000007	<0,000006	<0,000009	0,000005	<0,000005
Uranium	U	mg/l	0,000176	0,00045	0,000420	0,000600	0,000546	0,000418	0,00038	0,000404	0,000455	0,00034	0,000475
Vanadium	V	mg/l	0,00054	0,00048	0,00045	0,00039	0,00047	0,00044	0,00048	0,00060	0,00052	0,00049	0,0004
Tungstène	W	mg/l	0,00022	0,00013	0,00013	0,00011	0,00014	0,00005	0,00009	0,00013	0,00020	0,00009	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00004	<0,00003		0,00004		<0,00001	
Césium (total)	Cs	mg/l					0,0032	0,0032		0,0032		0,0027	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0036	0,0030		0,0031		0,0027	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	907	926	1000	946	969	956	929	959	947	962	945
pH	pH	No unit	6,70	6,64	6,82	6,89	6,47	6,49	6,64	6,6	6,54	6,39	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	4	2	3	2	2	2	2	2
Conductivité	Conductivité	µS/cm	23	21	19	29	18	18	18	16	20	19	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<4,0	<2,0
Fluoride	F	mg/l				<0,26					<0,16		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,4	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	6	5	7	5	6	5	4	6	6	5
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,044	0,047	0,021	0,07	0,022	0,018	0,028	0,019	0,021	0,020	0,020
Arsenic	As	mg/l	0,0330	0,0316	0,0315	0,0481	0,0238	0,0244	0,0251	0,0201	0,0217	0,0218	0,0222
Baryum	Ba	mg/l	0,00028	0,0003	0,00022	0,00048	0,00023	0,00023	0,00022	0,0004	0,00031	0,00037	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000013	<0,000008	<0,000007	<0,000007	<0,000011	0,000012	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,84	2,78	2,38	4,06	2,49	2,81	2,71	1,72	2,76	2,36	2,21
Cadmium	Cd	mg/l	0,000007	<0,00001	0,000003	<0,000015	<0,000009	0,000013	<0,000009	0,000003	0,00001	0,000006	<0,000005
Cobalt	Co	mg/l	0,000144	0,000183	0,000137	0,000541	0,000216	0,000215	0,000196	0,000177	0,000254	0,000140	0,000267
Chrome	Cr	mg/l	<0,00008	<0,0001	<0,00008	<0,00028	<0,00008	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0007	<0,0012	0,0006	<0,0012	<0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002	<0,0003
Fer	Fe	mg/l	<0,014	<0,016	<0,007	<0,026	<0,007	<0,007	<0,008	<0,011	<0,007	<0,014	<0,007
Potassium	K	mg/l	0,297	0,284	0,241	0,388	0,233	0,212	0,226	0,141	0,234	0,195	0,193
Lithium	Li	mg/l	0,0137	0,0137	0,0125	0,0152	0,009	0,0088	0,011	0,0078	0,0113	0,0104	0,0092
Magnésium	Mg	mg/l	0,404	0,394	0,351	0,567	0,324	0,361	0,339	0,228	0,379	0,317	0,305
Manganese	Mn	mg/l	0,00170	0,0018	0,00171	0,00618	0,00214	0,00226	0,00195	0,00184	0,0019	0,00222	0,00150
Molybdène	Mo	mg/l	0,00031	0,00026	0,00032	0,00023	0,00016	0,00013	0,00014	0,00058	0,00016	0,00015	0,00120
Sodium	Na	mg/l	0,22	0,17	0,13	0,32	0,16	0,14	0,15	0,08	0,13	0,11	0,14
Nickel	Ni	mg/l	0,0003	0,0004	0,0001	0,0011	0,0004	0,0004	0,0004	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00018	<0,00019	<0,00009	0,00036	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,0001
Antimoine	Sb	mg/l	0,0167	0,0175	0,0215	0,0239	0,0131	0,0150	0,0122	0,0134	0,0124	0,0133	0,0115
Sélénium	Se	mg/l	0,00012	0,00009	0,0001	0,00015	0,00011	0,00004	0,0001	0,00008	0,00011	0,00007	0,00011
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0103	0,00983	0,00836	0,014	0,00838	0,0087	0,00815	0,00621	0,00862	0,0076	0,0080
Titane	Ti	mg/l	0,00052	<0,00058	0,00013	0,00124	0,00018	0,00015	<0,00026	0,00025	0,00021	0,00022	<0,00026
Thallium	Th	mg/l	0,000008	<0,000005	<0,000007	<0,000013	<0,000008	0,000007	<0,000006	<0,000007	<0,000005	<0,000006	<0,000009
Uranium	U	mg/l	0,000341	0,000318	0,000829	0,000407	0,000484	0,000275	0,000582	0,000225	0,00133	0,00025	0,016910
Vanadium	V	mg/l	0,00047	0,00043	0,00045	0,00084	0,00033	0,00033	0,00039	0,0003	0,00031	0,00033	0,00032
Tungstène	W	mg/l	0,00007	0,00005	0,00007	0,00004	0,00004	0,00004	0,00003	0,00003	0,00003	0,00004	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00007					<0,00002		
Césium (total)	Cs	mg/l				0,005					0,002		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,004					0,0022		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	931	981	998	877	986	998	938	936	1022	1011	990
pH	pH	No unit	6,55	6,37	6,73	6,74	6,57	6,74	6,48	6,48	6,72	6,70	6,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	2	4	2	2	3	3	2
Conductivité	Conductivité	µS/cm	19	22	23	27	22	26	23	22	21	20	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<3,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,11		<0,11					<0,14			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	6	6	8	6	6	7	6	6	6	6
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,013	0,012	0,013	0,035	0,015	0,015	0,027	0,017	0,013	0,012	0,009
Arsenic	As	mg/l	0,0215	0,0193	0,0232	0,0239	0,0185	0,0254	0,0219	0,0195	0,0196	0,0176	0,0172
Baryum	Ba	mg/l	0,00017	0,00017	0,00020	0,00075	0,00022	0,00017	0,00082	0,00021	0,00023	0,00017	0,00022
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,29	2,42	2,84	3,24	2,65	3,32	3,10	2,97	2,64	2,48	2,28
Cadmium	Cd	mg/l	<0,000005	<0,000004	<0,000004	<0,000005	<0,000003	<0,000006	0,000007	<0,000012	<0,000004	<0,000005	<0,000003
Cobalt	Co	mg/l	0,000132	0,000139	0,000130	0,000171	0,000135	0,000173	0,000127	0,000139	0,000154	0,000122	0,000133
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,013	<0,007	<0,007	<0,009	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,155	0,156	0,178	0,213	0,185	0,212	0,201	0,185	0,145	0,133	0,113
Lithium	Li	mg/l	0,0086	0,0076	0,0080	0,0097	0,0082	0,0093	0,0077	0,0072	0,0061	0,0056	0,0054
Magnésium	Mg	mg/l	0,301	0,307	0,341	0,441	0,324	0,372	0,333	0,338	0,259	0,262	0,231
Manganese	Mn	mg/l	0,00153	0,00152	0,00186	0,00139	0,00156	0,00240	0,00165	0,00173	0,00278	0,00165	0,00170
Molybdène	Mo	mg/l	0,00064	0,00054	0,00030	0,00016	0,00007	0,00021	0,00054	<0,0004	<0,0004	<0,0004	<0,0009
Sodium	Na	mg/l	0,09	0,10	0,10	0,19	0,08	0,10	0,13	0,14	0,08	0,08	0,08
Nickel	Ni	mg/l	0,0003	0,0005	0,0004	0,0004	0,0005	0,0006	0,0005	0,0005	0,0004	0,0003	0,0006
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00017	0,00009	<0,00009	<0,0001	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0153	0,0129	0,0154	0,0118	0,0129	0,0166	0,0114	0,0106	0,0129	0,0111	0,0096
Sélénium	Se	mg/l	0,00008	0,00005	0,00006	0,00011	0,00006	0,00007	0,00007	0,00006	0,00009	0,00006	0,00007
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0076	0,0077	0,0082	0,0100	0,0075	0,0090	0,0098	0,00807	0,00680	0,00670	0,00652
Titane	Ti	mg/l	<0,00007	0,00008	<0,0001	0,00043	0,00011	0,00014	0,00035	0,0002	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000005
Uranium	U	mg/l	0,000320	0,002540	0,00042	0,000471	0,000291	0,00098	0,00037	0,000342	0,000378	0,000447	0,000415
Vanadium	V	mg/l	0,00026	0,00027	0,00033	0,00033	0,00024	0,00033	0,00032	0,00029	0,00025	0,00027	0,00020
Tungstène	W	mg/l	0,00004	0,00003	0,00004	0,00005	0,00002	0,00003	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00002			
Césium (total)	Cs	mg/l			0,0019					0,0021			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0020					0,0021			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	996	1004	944	949	898	920	923	977	1004	968	934
pH	pH	No unit	6,51	6,68	6,63	6,51	6,55	6,44	6,39	6,47	6,78	6,38	6,48
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	3	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	20	18	25	21	21	20	21	19	19	16	19
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,11					<0,15				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	8	7	7	6	6	5	5	5	7
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,011	0,010	0,014	0,011	0,020	0,017	0,016	0,007	0,008	0,011	0,013
Arsenic	As	mg/l	0,0157	0,0149	0,0129	0,0151	0,0157	0,0154	0,0157	0,0133	0,0159	0,0131	0,0132
Baryum	Ba	mg/l	0,00017	0,00018	0,00086	0,00021	0,00025	0,00016	0,00018	0,00027	0,00014	0,00014	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,49	2,54	2,98	2,90	2,43	2,49	2,88	2,24	2,59	2,24	2,96
Cadmium	Cd	mg/l	<0,000004	<0,000024	<0,000009	<0,000004	<0,000005	<0,000005	<0,000005	<0,000003	<0,000009	<0,000006	<0,000006
Cobalt	Co	mg/l	0,000141	0,000151	0,000122	0,000131	0,000111	0,000135	0,000128	0,000093	0,000164	0,000105	0,000131
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,129	0,126	0,109	0,128	0,126	0,134	0,139	0,107	0,111	0,106	0,131
Lithium	Li	mg/l	0,0057	0,0047	0,0051	0,0050	0,0050	0,0055	0,0059	0,0046	0,0052	0,0050	0,0054
Magnésium	Mg	mg/l	0,266	0,231	0,277	0,269	0,275	0,253	0,294	0,223	0,239	0,193	0,248
Manganese	Mn	mg/l	0,00182	0,00200	0,00153	0,00150	0,00135	0,00150	0,00142	0,00127	0,00202	0,00143	0,00164
Molybdène	Mo	mg/l	<0,0005	<0,0045	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,06	0,07	0,09	0,09	0,08	0,08	0,08	0,07	0,08	0,08
Nickel	Ni	mg/l	0,0006	0,0003	0,0003	0,0005	0,0004	0,0003	0,0003	0,0002	0,0006	0,0004	0,0003
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00026	<0,00015	<0,00009	<0,00009	<0,00012	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0100	0,0080	0,0073	0,0091	0,0093	0,0075	0,0086	0,0085	0,0112	0,0063	0,0068
Sélénium	Se	mg/l	0,00005	0,00005	0,00004	0,00008	0,00008	0,00008	0,00007	0,00007	0,00007	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00008	<0,00026	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00688	0,00613	0,00773	0,00684	0,00589	0,00647	0,00728	0,00541	0,00562	0,00490	0,00668
Titane	Ti	mg/l	0,0001	<0,0001	<0,0002	0,0001	0,0002	<0,00018	0,0001	<0,0001	<0,0001	<0,00012	<0,00011
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000005	<0,000007
Uranium	U	mg/l	0,000462	0,000304	0,000303	0,000270	0,000311	0,000232	0,000237	0,000191	0,000342	0,000217	0,000212
Vanadium	V	mg/l	0,00022	0,00024	0,00021	0,00022	0,00022	0,00024	0,00025	0,00019	0,00023	0,00019	0,00022
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0017					0,0017				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0014					0,0017				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	970	957	960	949	953	939	954	946	951	936	947
pH	pH	No unit	6,45	6,42	6,26	6,42	6,44	6,39	6,28	6,14	6,43	6,27	6,50
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2		2	
Conductivité	Conductivité	µS/cm	20	19	17	17	19	19	18	19	19	20	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,15					<0,17				<0,18	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	6	5	5	6	6	5	6		6	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,008	0,007	0,008	0,011	0,009	0,009	0,008	0,009		0,009	
Arsenic	As	mg/l	0,0125	0,0115	0,0106	0,0126	0,0126	0,0118	0,0118	0,0124		0,0110	
Baryum	Ba	mg/l	0,00019	0,00014	0,00015	0,00018	0,00019	0,00022	0,00015	0,00019		0,00024	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,86	2,48	2,38	2,66	2,93	2,73	2,38	2,72		2,88	
Cadmium	Cd	mg/l	<0,000005	<0,000004	<0,000007	<0,000006	<0,000006	<0,000008	<0,000004	<0,000008		<0,000003	
Cobalt	Co	mg/l	0,000196	0,000123	0,000124	0,000135	0,000124	0,000130	0,000128	0,000157		0,000142	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,114	0,106	0,108	0,128	0,131	0,122	0,114	0,122		0,139	
Lithium	Li	mg/l	0,0051	0,0045	0,0044	0,0053	0,0054	0,0052	0,0049	0,0052		0,0051	
Magnésium	Mg	mg/l	0,232	0,221	0,222	0,243	0,262	0,260	0,208	0,230		0,250	
Manganese	Mn	mg/l	0,00164	0,00148	0,00144	0,00171	0,00175	0,00181	0,00166	0,00185		0,00228	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,08	0,06	0,08	0,08	0,08	0,07	0,06	0,08		0,12	
Nickel	Ni	mg/l	0,0003	0,0006	0,0004	0,0004	0,0005	0,0004	0,0004	0,0005		0,0005	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0072	0,0068	0,0062	0,0067	0,0071	0,0068	0,0062	0,0072		0,0063	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00005		0,00007	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00637	0,00586	0,00484	0,00572	0,00646	0,00647	0,00542	0,00603		0,00613	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,00016	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000187	0,000189	0,000169	0,000161	0,000164	0,000176	0,000138	0,000164		0,000142	
Vanadium	V	mg/l	0,00020	0,00020	0,00019	0,00021	0,00022	0,00018	0,00020	0,00018		0,00019	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0015					0,0015				0,0017	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0014					0,0015				0,0015	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	958	950	951	936	938	920	936	948	952	925	945
pH	pH	No unit	6,29	6,20	6,35	6,50	6,49	6,54	6,21	6,46	6,65	6,40	6,28
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				2
Conductivité	Conductivité	µS/cm	17	24	16	18	21	21	17	18	18	20	18
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,2				<0,19				<0,21
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				5
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,012				0,007				0,006
Arsenic	As	mg/l			0,0100				0,0095				0,0077
Baryum	Ba	mg/l			0,00019				0,00018				0,00017
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			3,04				2,64				2,37
Cadmium	Cd	mg/l			<0,000006				<0,00002				<0,000013
Cobalt	Co	mg/l			0,000201				0,000191				0,000225
Chrome	Cr	mg/l			<0,00009				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,130				0,116				0,101
Lithium	Li	mg/l			0,0050				0,0044				0,0045
Magnésium	Mg	mg/l			0,245				0,214				0,214
Manganese	Mn	mg/l			0,00231				0,00255				0,00257
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,09				0,09				0,05
Nickel	Ni	mg/l			0,0005				0,0006				0,0005
Plomb	Pb	mg/l			<0,00009				<0,00111				<0,00081
Antimoine	Sb	mg/l			0,0061				0,0054				0,0046
Sélénium	Se	mg/l			0,00009				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00621				0,00503				0,00450
Titane	Ti	mg/l			<0,0002				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000006				<0,000006
Uranium	U	mg/l			0,000128				0,000115				0,000075
Vanadium	V	mg/l			0,00020				0,00016				0,00014
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,003				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00002				<0,00008				<0,00002
Césium (total)	Cs	mg/l			0,0018				0,0015				0,0015
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00007				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00002				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0014				0,0019
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	927	944	910	950	954	928	930	936	958	1057	1037
pH	pH	No unit	6,45	6,42	6,51	5,67	6,45	6,41	6,49	6,3	6,59	6,97	6,49
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				2			
Conductivité	Conductivité	µS/cm	21	20	19	18	22	24	20	18	18	19	31
Acidité	Acidité	$mgCaCO_3/l$				3				<2,0			
Fluoride	F	mg/l				<0,27				<0,22			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				5				6			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,005				0,006			
Arsenic	As	mg/l				0,0072				0,0065			
Baryum	Ba	mg/l				0,00016				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				2,45				2,49			
Cadmium	Cd	mg/l				<0,000012				<0,000012			
Cobalt	Co	mg/l				0,000289				0,000312			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,090				0,097			
Lithium	Li	mg/l				0,0048				0,0048			
Magnésium	Mg	mg/l				0,201				0,21			
Manganese	Mn	mg/l				0,00307				0,0032			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				0,0008				0,0016			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0047				0,0048			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00007			
Strontium	Sr	mg/l				0,00492				0,00493			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000006			
Uranium	U	mg/l				0,000058				0,000039			
Vanadium	V	mg/l				0,00013				0,00012			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0013				0,0015			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00002				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0011				0,0013			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00002				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00002				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1002	1011
pH	pH	No unit	6,41	7,62
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	11	27
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,3	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	6	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,008	
Arsenic	As	mg/l	0,0075	
Baryum	Ba	mg/l	0,00017	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	3,04	
Cadmium	Cd	mg/l	<0,00002	
Cobalt	Co	mg/l	0,000438	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,12	
Lithium	Li	mg/l	0,0052	
Magnésium	Mg	mg/l	0,288	
Manganese	Mn	mg/l	0,00723	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0009	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0055	
Sélénium	Se	mg/l	0,00009	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00509	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,00001	
Uranium	U	mg/l	0,000039	
Vanadium	V	mg/l	0,00015	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0024	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0017	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-39

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	983	1029	959	985	963	964	1006	1008	943	947	937
pH	pH	No unit	6,4	6,45	6,29	6,47	6,47	6,76	6,04	6,66	6,49	6,16	5,94
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<2,0				<2,0
Conductivité	Conductivité	µS/cm	26	27	18	28	22	22	17	31	26	26	22
Acidité	Acidité	$mgCaCO_3/l$			<2,0				4				3
Fluoride	F	mg/l			<0,27				<0,18				<0,29
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				5				8
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,007				0,006				0,005
Arsenic	As	mg/l			0,0059				0,0048				0,0039
Baryum	Ba	mg/l			0,00018				0,00017				0,00019
Beryllium	Be	mg/l			<0,000009				<0,000007				<0,000009
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,69				2,24				2,92
Cadmium	Cd	mg/l			<0,000014				0,000018				<0,000017
Cobalt	Co	mg/l			0,000326				0,000498				0,000665
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,090				0,081				0,105
Lithium	Li	mg/l			0,0042				0,0047				0,0056
Magnésium	Mg	mg/l			0,219				0,193				0,307
Manganese	Mn	mg/l			0,00488				0,00593				0,00826
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,08
Nickel	Ni	mg/l			0,0007				0,001				0,0015
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0036				<0,0029				<0,0029
Sélénium	Se	mg/l			0,00006				0,00004				0,00006
Etain	Sn	mg/l			0,00008				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00448				0,00385				0,00484
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000007				<0,000005				<0,000008
Uranium	U	mg/l			0,000057				0,000041				0,000040
Vanadium	V	mg/l			0,00012				0,00009				0,00010
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,003				<0,003
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0016				0,0014				0,0018
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0014				0,0012				0,0013
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	803	992	1009	1008	1001	996	1010	991	981	970	1010
pH	pH	No unit	7,37	7,48	7,58	7,67	7,46	7,32	7,34	7,18	7,54	7,51	7,53
Alkalinité	Alkalinité	$mgCaCO_3/l$	14	21	23	21	15	13	13	13	17	16	15
Conductivité	Conductivité	µS/cm	114	164	108	88	59	60	57	55	47	62	64
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,2	<0,34	<0,4	<0,34	<0,31	<0,28	<0,26	<0,31	<0,39	<0,39	<0,37
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	37	53	31	16	15	13	14	12	14	11	11
Chlore	Cl^-	mg/l	8	5	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,087	0,095	0,086	0,085	0,072	0,046	0,064	0,061	0,090	0,095	0,092
Arsenic	As	mg/l	0,0207	0,0386	0,0332	0,0271	0,0289	0,0254	0,0252	0,0223	0,0282	0,0260	0,0273
Baryum	Ba	mg/l	0,00156	0,00260	0,00167	0,00092	0,00098	0,00072	0,00066	0,00064	0,00080	0,00080	0,00063
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000016	<0,000007
Bore	B	mg/l	0,008	0,025	0,015	0,009	0,009	0,005	0,005	0,004	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	8,57	15,90	12,80	9,36	9,84	8,73	9,27	9,10	11,10	9,72	10,40
Cadmium	Cd	mg/l	<0,000005	<0,000018	<0,000029	0,000024	0,000012	<0,000027	<0,000019	<0,00002	<0,000027	<0,00003	<0,000041
Cobalt	Co	mg/l	0,000493	0,001907	0,002873	0,001350	0,001320	0,001190	0,001820	0,001747	0,001820	0,001660	0,001681
Chrome	Cr	mg/l	0,00008	0,00093	<0,00008	0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,0004	0,0003	<0,0002	<0,0002	0,0003	0,0046	<0,0002	<0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,008	0,007	0,007	<0,007	0,007	0,015
Potassium	K	mg/l	7,66	7,65	4,64	2,600	2,090	1,590	1,360	1,140	1,330	0,977	0,939
Lithium	Li	mg/l	0,1890	0,2210	0,1110	0,0591	0,0464	0,0338	0,0298	0,0229	0,0283	0,0225	0,0204
Magnésium	Mg	mg/l	1,370	2,780	1,800	0,963	0,832	0,743	0,674	0,581	0,662	0,507	0,504
Manganese	Mn	mg/l	0,00607	0,01630	0,01815	0,00953	0,01050	0,01060	0,01080	0,01045	0,01180	0,00983	0,01040
Molybdène	Mo	mg/l	0,00395	0,00923	0,00617	0,00337	0,00209	0,00192	0,00142	0,00112	0,00104	0,00083	0,00090
Sodium	Na	mg/l	8,00	6,37	2,26	0,78	0,54	0,41	0,30	0,29	0,31	0,23	0,21
Nickel	Ni	mg/l	0,0087	0,0091	0,0069	0,0027	0,0021	0,0014	0,0019	0,0018	0,0018	0,0017	0,0013
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0443	0,5920	0,3710	0,2600	0,2010	0,1790	0,1530	0,1320	0,1270	0,1130	0,1040
Sélénium	Se	mg/l	0,00430	0,00406	0,00238	0,00127	0,00128	0,00110	0,00116	0,00096	0,00117	0,00095	0,00108
Etain	Sn	mg/l	0,00038	0,00026	0,00018	0,00008	0,00011	0,00011	0,00006	0,00006	<0,00006	<0,00006	0,00008
Strontium	Sr	mg/l	0,0233	0,0417	0,02803	0,0166	0,01610	0,0135	0,0135	0,01212	0,0145	0,01233	0,0118
Titane	Ti	mg/l	0,00022	0,00019	0,00007	0,00051	0,00016	<0,0001	0,00013	0,00016	0,00015	0,00016	0,00011
Thallium	Th	mg/l	0,000070	<0,000047	0,000059	<0,000033	<0,000035	0,000031	<0,000032	<0,00003	<0,000036	<0,000032	<0,000031
Uranium	U	mg/l	0,000327	0,005580	0,004679	0,006910	0,002440	0,002260	0,003200	0,002409	0,00371	0,003770	0,002750
Vanadium	V	mg/l	0,00015	0,00042	0,00034	0,00036	0,00033	0,00030	0,00031	0,00030	0,00036	0,00043	0,00039
Tungstène	W	mg/l	0,00031	0,00030	0,00032	0,00027	0,00020	0,00024	0,00014	0,00014	0,00014	0,00012	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,003	<0,004	<0,003	<0,004
Gold (total)	Au	mg/l	0,00001	<0,0001	<0,00014	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00009	<0,00001
Cérium (total)	Ce	mg/l	0,00002	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,1550	0,1830	0,1470	0,1040	0,1060	0,0690	0,0897	0,0708	0,0893	0,0731	0,0720
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0002	<0,0002	<0,0001	<0,0002	0,0003	<0,0002	0,0002	<0,0002	<0,0002	<0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,1710	0,1540	0,0995	0,0604	0,0493	0,0378	0,0330	0,0300	0,0357	0,0291	0,0272
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1002	1004	1004	1016	1008	1024	962	924	1031	988	954
pH	pH	No unit	7,44	7,51	7,31	7,36	7,37	7,26	7,12	7,20	7,09	6,96	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	13	11	13	18	12	6	6	8	4	7
Conductivité	Conductivité	µS/cm	58	54	50	58	48	51	43	52	49	35	56
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	4	8	2	4	6
Fluoride	F	mg/l				<0,34	<0,3	<0,32		<0,25		0,21	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	10	8	10	10	8	8	8	11	11	<7,0	11
Chlore	Cl^-	mg/l					1	<1,0		<4,0		2	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00015	<0,00005
Aluminum	Al	mg/l	0,031	0,054	0,079	0,077	0,057	0,061	0,038	0,046	0,044	0,024	0,055
Arsenic	As	mg/l	0,0242	0,0217	0,0235	0,0222	0,0206	0,0214	0,0128	0,0127	0,0133	0,0095	0,012
Baryum	Ba	mg/l	0,00052	0,00052	0,00043	0,00051	0,00050	0,00046	0,00034	0,00059	0,00058	0,00028	0,00061
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	9,20	8,55	8,72	10,00	9,19	8,54	6,88	8,68	9,01	5,73	8,91
Cadmium	Cd	mg/l	<0,000007	<0,00003	<0,00002	<0,000035	0,000028	0,000021	<0,000022	<0,00003	<0,000038	0,000023	<0,000028
Cobalt	Co	mg/l	0,001040	0,001540	0,000933	0,001460	0,001460	0,001330	0,001100	0,001284	0,002280	0,001050	0,0014
Chrome	Cr	mg/l	0,00008	0,00008	0,00010	<0,00008	<0,00008	0,00010	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0002	0,0002	0,0002	<0,0002	<0,0003	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,053	0,008
Potassium	K	mg/l	0,751	0,596	0,581	0,644	0,533	0,469	0,289	0,358	0,393	0,225	0,354
Lithium	Li	mg/l	0,0208	0,0138	0,0133	0,0147	0,0116	0,0113	0,0089	0,0133	0,0181	0,0092	0,0207
Magnésium	Mg	mg/l	0,433	0,351	0,303	0,339	0,28	0,232	0,192	0,258	0,287	0,155	0,249
Manganese	Mn	mg/l	0,00837	0,00866	0,00668	0,00899	0,00841	0,00781	0,00576	0,00675	0,01020	0,00520	0,00763
Molybdène	Mo	mg/l	0,00075	0,00054	0,00064	0,00086	0,00074	0,00043	0,00071	0,00084	0,00054	0,00048	0,00071
Sodium	Na	mg/l	0,16	0,15	0,15	0,20	0,16	0,14	0,08	0,16	0,15	0,07	0,15
Nickel	Ni	mg/l	0,0010	0,0013	0,0010	0,0118	0,0011	0,0009	0,0008	0,0011	0,0019	0,0007	0,001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00012	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0867	0,0740	0,0769	0,0703	0,0698	0,0641	0,0824	0,0820	0,0721	0,0455	0,0582
Sélénium	Se	mg/l	0,00082	0,00071	0,00085	0,00092	0,00075	0,00075	0,00084	0,00116	0,00090	0,00068	0,00086
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0103	0,0091	0,00944	0,0103	0,0096	0,0083	0,0064	0,0083	0,0092	0,0053	0,00812
Titane	Ti	mg/l	0,00027	0,00014	0,00019	0,00012	0,00009	0,00007	0,00016	0,00016	0,00012	0,00007	0,00011
Thallium	Th	mg/l	0,000035	<0,00003	<0,000026	<0,000031	<0,000028	<0,000025	<0,000018	<0,00002	<0,000028	0,000015	<0,000022
Uranium	U	mg/l	0,001201	0,00268	0,002360	0,003720	0,010100	0,002000	0,00290	0,002930	0,004480	0,00363	0,00258
Vanadium	V	mg/l	0,00032	0,00029	0,00030	0,00032	0,00025	0,00028	0,00015	0,00018	0,00016	0,00010	0,00017
Tungstène	W	mg/l	0,00021	0,00008	0,00008	0,00008	0,00007	0,00005	0,00006	0,00004	0,00015	0,00004	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,005	<0,004	<0,005	0,005	<0,004	<0,005	<0,006	<0,007	<0,005	<0,005
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0567	0,0573		0,0445		0,0307	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0196	0,0176		0,0124		0,0083	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	948	971	997	970	1006	983	961	957	985	999	983
pH	pH	No unit	6,98	6,66	7,23	7,62	6,44	6,54	6,41	6,47	6,51	6,30	6,56
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	8	7	2	2	3	2	3	2	2
Conductivité	Conductivité	µS/cm	34	33	50	34	21	22	31	35	40	37	41
Acidité	Acidité	$mgCaCO_3/l$	<6,0	7	<5,0	8	6	<6,0	7	<9,0	7	<9,0	<7,0
Fluoride	F	mg/l				<0,22					<0,2		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,28	<0,03	<0,03	<0,22	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	8	9	7	5	5	8	10	13	12	12
Chlore	Cl^-	mg/l				7					<2,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,032	0,024	0,043	0,038	0,009	0,005	0,006	0,006	0,008	0,007	0,007
Arsenic	As	mg/l	0,0079	0,0064	0,0104	0,0092	0,0035	0,0029	0,0031	0,0035	0,0035	0,0027	0,0032
Baryum	Ba	mg/l	0,00028	0,00026	0,00041	0,0003	0,00021	0,00018	0,00048	0,0003	0,00057	0,00033	0,00044
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000008	<0,000007	<0,000007	<0,000007	0,00001	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,48	5,66	7,6	5,65	3,62	3,77	5,45	5,12	7,19	5,88	6,25
Cadmium	Cd	mg/l	0,000022	<0,000027	0,000029	<0,000055	<0,000021	0,000027	<0,000042	0,000047	0,000049	0,000038	<0,000044
Cobalt	Co	mg/l	0,001080	0,001361	0,0016	0,0031	0,00104	0,001290	0,00226	0,00233	0,00251	0,002093	0,002699
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00015	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	<0,0004	0,0002	<0,0015	<0,0002	<0,0005	<0,0002	0,0003	<0,0003	<0,0003	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,01	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,217	0,191	0,338	0,221	0,129	0,092	0,129	0,121	0,195	0,151	0,163
Lithium	Li	mg/l	0,0101	0,0093	0,0202	0,0097	0,0051	0,0042	0,0069	0,0066	0,0106	0,0090	0,0109
Magnésium	Mg	mg/l	0,146	0,135	0,211	0,125	0,079	0,080	0,112	0,116	0,161	0,122	0,122
Manganese	Mn	mg/l	0,00496	0,00558	0,00759	0,01	0,00353	0,00354	0,00537	0,00615	0,00743	0,00623	0,00751
Molybdène	Mo	mg/l	0,00086	0,00039	0,00057	0,00024	0,00014	0,00025	0,00035	0,00011	0,00067	0,00121	0,00017
Sodium	Na	mg/l	0,08	0,09	0,28	0,1	0,09	0,06	0,1	0,08	0,13	0,08	0,14
Nickel	Ni	mg/l	0,0010	0,001	0,0012	0,0021	0,0008	0,0009	0,0018	0,002	0,002	0,0017	0,0022
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00014	0,00023	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0314	0,0286	0,043	0,031	0,0135	0,0129	0,0118	0,0139	0,0163	0,0164	0,0172
Sélénium	Se	mg/l	0,00058	0,00051	0,00085	0,00053	0,0004	0,00035	0,00048	0,00054	0,00083	0,00053	0,00054
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0051	0,00529	0,00742	0,00498	0,00335	0,0031	0,00451	0,00523	0,00613	0,0052	0,0060
Titane	Ti	mg/l	0,00015	<0,00023	0,00009	0,00084	0,0001	0,00007	<0,00007	0,00009	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000017	<0,00002	<0,000021	<0,00003	<0,00001	0,000010	<0,00001	<0,000014	<0,00002	<0,000014	<0,000017
Uranium	U	mg/l	0,001630	0,00186	0,00175	0,00112	0,00163	0,000943	0,00117	0,00126	0,0014	0,00132	0,001350
Vanadium	V	mg/l	0,00011	0,00008	0,00013	0,0002	0,00004	0,00003	0,00004	0,00003	0,00007	0,00004	0,00004
Tungstène	W	mg/l	0,00004	0,00002	0,00004	0,00002	0,00002	0,00002	0,00002	0,00002	0,0004	0,00002	0,00002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,005	<0,007	<0,006	<0,017	<0,006	<0,008	<0,014	<0,017	<0,015	<0,011	<0,013
Gold (total)	Au	mg/l				0,00004					<0,00001		
Cérium (total)	Ce	mg/l				0,00003					<0,00002		
Césium (total)	Cs	mg/l				0,0392					0,0244		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0087					0,0068		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	946	999	1005	937	987	996	986	983	1047	998	1008
pH	pH	No unit	6,95	6,59	6,92	6,76	6,96	6,97	6,84	7,00	6,88	7,18	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	3	7	3	3	7	4	3	5	10	10
Conductivité	Conductivité	µS/cm	54	37	58	34	51	56	50	43	56	59	58
Acidité	Acidité	$mgCaCO_3/l$	<6,0	<2,0	<6,0	<2,0	<2,0	<4,0	<6,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,24		<0,22					<0,21			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	12	9	14	9	11	12	10	8	13	12	9
Chlore	Cl^-	mg/l	***		<4,0					3			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,025	0,006	0,017	0,007	0,014	0,016	0,022	0,011	0,026	0,021	0,020
Arsenic	As	mg/l	0,0054	0,0027	0,0046	0,0052	0,0040	0,0049	0,0039	0,0029	0,0046	0,0040	0,0039
Baryum	Ba	mg/l	0,00035	0,00034	0,00056	0,00146	0,00040	0,00036	0,00034	0,00120	0,00045	0,00034	0,00051
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00002	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	7,45	4,95	8,93	4,92	6,84	8,04	6,83	6,08	7,63	7,66	7,02
Cadmium	Cd	mg/l	<0,000032	<0,000028	<0,000039	<0,000021	<0,000035	<0,000041	0,000033	<0,000032	<0,000044	<0,000054	<0,000062
Cobalt	Co	mg/l	0,001900	0,001530	0,002290	0,001580	0,002260	0,002260	0,001917	0,001930	0,002470	0,003230	0,003162
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0003	<0,0002	0,0004	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,236	0,117	0,221	0,126	0,201	0,229	0,211	0,165	0,216	0,195	0,168
Lithium	Li	mg/l	0,0167	0,0076	0,0145	0,0069	0,0120	0,0152	0,0118	0,0078	0,0129	0,0128	0,0115
Magnésium	Mg	mg/l	0,139	0,081	0,145	0,082	0,114	0,130	0,098	0,086	0,096	0,097	0,083
Manganese	Mn	mg/l	0,00803	0,00646	0,01110	0,00507	0,00789	0,01030	0,00773	0,00709	0,00909	0,01210	0,01210
Molybdène	Mo	mg/l	0,00224	0,00018	0,00027	0,00039	0,00025	0,00032	0,00053	<0,0008	<0,0004	<0,0005	<0,0004
Sodium	Na	mg/l	0,13	0,06	0,12	0,15	0,25	0,12	0,10	0,14	0,13	0,11	0,10
Nickel	Ni	mg/l	0,0014	0,0014	0,0018	0,0012	0,0020	0,0019	0,0015	0,0016	0,0020	0,0023	0,0022
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0282	0,0155	0,0233	0,0119	0,0194	0,0240	0,0192	0,0150	0,0200	0,0212	0,0193
Sélénium	Se	mg/l	0,00064	0,00038	0,00065	0,00054	0,00055	0,00066	0,00051	0,00045	0,00066	0,00056	0,00070
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0068	0,0044	0,0075	0,0042	0,0092	0,0066	0,0053	0,00509	0,00580	0,00579	0,00528
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000023	<0,00001	<0,000024	<0,000005	<0,000014	<0,000021	<0,000031	<0,000012	<0,000027	<0,000022	<0,000025
Uranium	U	mg/l	0,009660	0,001120	0,00257	0,001020	0,001310	0,00318	0,00205	0,001240	0,001520	0,006450	0,001860
Vanadium	V	mg/l	0,00008	0,00004	0,00007	0,00003	0,00003	0,00006	0,00007	0,00004	0,00005	0,00007	0,00014
Tungstène	W	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	0,00002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,007	<0,007	<0,007	<0,007	<0,011	<0,008	<0,008	<0,008	<0,008	<0,01	<0,01
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0365					0,0287			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0097					0,0067			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1001	978	1003	1001	977	999	1000	1008	995	998	997
pH	pH	No unit	7,11	7,08	7,19	7,30	7,11	7,25	7,29	7,12	7,25	7,23	7,31
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	7	8	8	9	9	9	9	9	7	8
Conductivité	Conductivité	µS/cm	55	48	46	46	50	48	50	52	48	46	46
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<3,0	<2,0	<2,0	<3,0	<2,0	<2,0	<3,0
Fluoride	F	mg/l		<0,41					<0,48				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	9	7	7	8	8	6	4	6	7	9
Chlore	Cl^-	mg/l		<4,0					<2,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,024	0,017	0,032	0,036	0,021	0,043	0,031	0,029	0,025	0,029
Arsenic	As	mg/l	0,0030	0,0033	0,0028	0,0036	0,0036	0,0035	0,0036	0,0029	0,0032	0,0032	0,0034
Baryum	Ba	mg/l	0,00027	0,00026	0,00022	0,00030	0,00031	0,00023	0,00022	0,00020	0,00025	0,00028	0,00034
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,85	7,46	5,88	6,53	6,29	7,22	6,64	5,74	6,79	7,68	8,71
Cadmium	Cd	mg/l	<0,000041	<0,000041	<0,00005	<0,000034	<0,000029	<0,000055	<0,000042	<0,000033	<0,000056	<0,000048	<0,000048
Cobalt	Co	mg/l	0,002590	0,002527	0,002650	0,001848	0,001920	0,003400	0,002150	0,002610	0,002880	0,002910	0,003260
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,166	0,171	0,117	0,157	0,140	0,141	0,146	0,132	0,126	0,137	0,146
Lithium	Li	mg/l	0,0105	0,0079	0,0076	0,0090	0,0076	0,0083	0,0088	0,0083	0,0082	0,0082	0,0077
Magnésium	Mg	mg/l	0,074	0,081	0,065	0,074	0,064	0,076	0,066	0,057	0,065	0,078	0,089
Manganese	Mn	mg/l	0,00926	0,00843	0,00867	0,00758	0,00693	0,01067	0,00711	0,00745	0,00874	0,00907	0,00998
Molybdène	Mo	mg/l	<0,0022	<0,0004	<0,0007	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,10	0,09	0,07	0,09	0,09	0,09	0,08	0,09	0,10	0,11	0,10
Nickel	Ni	mg/l	0,0020	0,0019	0,0018	0,0028	0,0015	0,0023	0,0017	0,0018	0,0020	0,0023	0,0025
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0169	0,0174	0,0144	0,0175	0,0150	0,0147	0,0145	0,0128	0,0149	0,0145	0,0158
Sélénium	Se	mg/l	0,00040	0,00046	0,00044	0,00063	0,00045	0,00052	0,00043	0,00041	0,00053	0,00055	0,00062
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00013	<0,00006	<0,00006	<0,00012	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00460	0,00481	0,00395	0,00393	0,00363	0,00444	0,00398	0,00340	0,00392	0,00401	0,00472
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000024	<0,000021	<0,00002	<0,00002	<0,00002	<0,000023	<0,000023	<0,000021	<0,00002	<0,000022	<0,000025
Uranium	U	mg/l	0,001110	0,001292	0,001260	0,001100	0,001010	0,001430	0,000839	0,000879	0,001300	0,001440	0,001283
Vanadium	V	mg/l	0,00005	0,00006	0,00004	0,00005	0,00006	0,00004	0,00007	0,00004	0,00005	0,00005	0,00006
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,011	<0,008	<0,008	<0,006	<0,005	<0,01	<0,006	<0,007	<0,007	<0,008	<0,008
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0353					0,0363				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0077					0,0077				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1003	1010	993	993	1005	995	1008	895	983	991	1000
pH	pH	No unit	6,92	7,19	7,04	7,16	7,00	7,05	6,77	6,86	7,09	6,78	6,73
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	7	6	6	5	6	3	4		3	
Conductivité	Conductivité	µS/cm	50	44	40	54	47	48	44	54	54	44	45
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<6,0	<5,0	<9,0	<12,0	<10,0	<12,0	<17,0		<13,0	
Fluoride	F	mg/l	<0,5					<0,52				<0,51	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,22	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	2	7	9	7	9	8	11		8	
Chlore	Cl^-	mg/l	<2,0					<6,0				<5,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00008	
Aluminum	Al	mg/l	0,036	0,033	0,016	0,030	0,022	0,020	0,011	0,014		0,013	
Arsenic	As	mg/l	0,0032	0,0088	0,0024	0,0026	0,0021	0,0025	0,0017	0,0021		0,0015	
Baryum	Ba	mg/l	0,00026	0,00029	0,00022	0,00028	0,00022	0,00047	0,00028	0,00043		0,00034	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	6,97	4,64	7,18	8,39	6,66	8,17	6,54	8,58		6,89	
Cadmium	Cd	mg/l	<0,000049	<0,000003	<0,000048	<0,000103	<0,000053	<0,00008	<0,000089	<0,000132		<0,000117	
Cobalt	Co	mg/l	0,002930	0,000057	0,003470	0,004370	0,004130	0,006400	0,006540	0,010200		0,008610	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00012	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,141	0,134	0,107	0,149	0,114	0,122	0,094	0,120		0,115	
Lithium	Li	mg/l	0,0080	0,0017	0,0058	0,0089	0,0068	0,0073	0,0055	0,0076		0,0059	
Magnésium	Mg	mg/l	0,066	0,136	0,070	0,086	0,067	0,090	0,071	0,101		0,083	
Manganese	Mn	mg/l	0,00767	0,00566	0,00892	0,00972	0,00786	0,01130	0,01040	0,01360		0,01210	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0316	<0,0004	<0,0004	<0,0004	<0,0004		<0,0202	
Sodium	Na	mg/l	0,12	0,05	0,08	0,12	0,08	0,09	0,06	0,10		0,13	
Nickel	Ni	mg/l	0,0020	0,0007	0,0026	0,0034	0,0036	0,0053	0,0056	0,0086		0,0077	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00013	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0139	0,0009	0,0105	0,0128	0,0103	0,0110	0,0085	0,0105		0,0087	
Sélénium	Se	mg/l	0,00048	0,00004	0,00046	0,00062	0,00043	0,00060	0,00055	0,00067		0,00052	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00382	0,00410	0,00329	0,00429	0,00330	0,00463	0,00347	0,00456		0,00362	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000025	<0,000005	<0,000014	<0,000019	<0,000023	<0,000026	<0,00002	<0,000028		<0,000025	
Uranium	U	mg/l	0,001050	0,000363	0,001200	0,001370	0,001100	0,001630	0,001260	0,001510		0,001050	
Vanadium	V	mg/l	0,00004	0,00028	0,00006	0,00006	0,00004	0,00002	0,00002	0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,009	<0,002	<0,011	<0,015	<0,015	<0,022	<0,027	<0,043		<0,035	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0336					0,0358				0,0334	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0070					0,0067				0,0059	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	967	982	1002	967	996	983	994	994	1012	992	1001
pH	pH	No unit	6,60	6,79	6,30	6,33	6,50	6,66	6,56	6,80	6,89	6,49	6,71
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				4
Conductivité	Conductivité	µS/cm	47	45	38	46	49	51	47	49	43	46	46
Acidité	Acidité	$mgCaCO_3/l$			<14,0				<13,0				<10,0
Fluoride	F	mg/l			<0,44				<0,59				<0,73
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			12				11				6
Chlore	Cl^-	mg/l			<4,0				<4,0				<2,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,029				0,031				0,020
Arsenic	As	mg/l			0,0014				0,0008				0,0011
Baryum	Ba	mg/l			0,00038				0,00037				0,00036
Beryllium	Be	mg/l			<0,000029				<0,000042				<0,000028
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			7,40				7,70				5,30
Cadmium	Cd	mg/l			<0,000406				<0,000318				<0,000213
Cobalt	Co	mg/l			0,028500				0,022600				0,013400
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00011
Cuivre	Cu	mg/l			<0,002				<0,002				<0,001
Fer	Fe	mg/l			<0,028				<0,05				<0,041
Potassium	K	mg/l			0,106				0,113				0,104
Lithium	Li	mg/l			0,0068				0,0079				0,0084
Magnésium	Mg	mg/l			0,123				0,130				0,090
Manganese	Mn	mg/l			0,02510				0,01990				0,01240
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,10				0,12
Nickel	Ni	mg/l			0,0294				0,0304				0,0184
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0050				0,0053				0,0061
Sélénium	Se	mg/l			0,00056				0,00056				0,00038
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00420				0,00372				0,00269
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000035				<0,000035				<0,000033
Uranium	U	mg/l			0,000880				0,000707				0,000359
Vanadium	V	mg/l			0,00001				0,00001				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00003				<0,00003				<0,00002
Zinc	Zn	mg/l			<0,17				<0,13				<0,076
Gold (total)	Au	mg/l			<0,00001				<0,00002				<0,00001
Cérium (total)	Ce	mg/l			<0,00017				<0,00018				<0,00006
Césium (total)	Cs	mg/l			0,0317				0,0353				0,0325
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00013				<0,00015				<0,00005
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00005				<0,00005				<0,00002
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00002				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0063				0,0064				0,0077
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1003	1011	983	1015	1003	1004	1012	1010	1015	1022	1040
pH	pH	No unit	6,68	6,91	6,82	6,58	6,77	6,69	6,79	6,62	6,77	6,58	6,59
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				4			
Conductivité	Conductivité	µS/cm	50	47	50	44	47	48	52	44	49	50	56
Acidité	Acidité	$mgCaCO_3/l$				8				<10,0			
Fluoride	F	mg/l				<0,8				<0,81			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				11				11			
Chlore	Cl^-	mg/l				<3,0				<2,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,021				0,021			
Arsenic	As	mg/l				0,0008				0,0005			
Baryum	Ba	mg/l				0,00038				0,00039			
Beryllium	Be	mg/l				<0,000042				<0,000048			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				7,30				7,03			
Cadmium	Cd	mg/l				<0,000321				<0,000351			
Cobalt	Co	mg/l				0,024200				0,0253			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,132				<0,154			
Potassium	K	mg/l				0,107				0,107			
Lithium	Li	mg/l				0,0107				0,0092			
Magnésium	Mg	mg/l				0,137				0,138			
Manganese	Mn	mg/l				0,02420				0,0265			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,11				0,09			
Nickel	Ni	mg/l				0,0336				0,0384			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0071				0,0068			
Sélénium	Se	mg/l				0,00065				0,00045			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00374				0,00353			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000029				0,000043			
Uranium	U	mg/l				0,000446				0,000237			
Vanadium	V	mg/l				0,00001				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00003				<0,00002			
Zinc	Zn	mg/l				<0,123				<0,146			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00008			
Césium (total)	Cs	mg/l				0,0364				0,0405			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00009			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00002			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0063				0,0067			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1020	1009
pH	pH	No unit	6,44	6,48
Alkalinité	Alkalinité	mg$CaCO_3$/l	3	
Conductivité	Conductivité	µS/cm	53	56
Acidité	Acidité	mg$CaCO_3$/l	10	
Fluoride	F	mg/l	<0,79	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	14	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,024	
Arsenic	As	mg/l	0,001	
Baryum	Ba	mg/l	0,00048	
Beryllium	Be	mg/l	<0,000057	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	7,14	
Cadmium	Cd	mg/l	<0,000386	
Cobalt	Co	mg/l	0,0327	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,002	
Fer	Fe	mg/l	<0,239	
Potassium	K	mg/l	0,111	
Lithium	Li	mg/l	0,0099	
Magnésium	Mg	mg/l	0,177	
Manganese	Mn	mg/l	0,0392	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,11	
Nickel	Ni	mg/l	0,0427	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0066	
Sélénium	Se	mg/l	0,00042	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00394	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000031	
Uranium	U	mg/l	0,000244	
Vanadium	V	mg/l	0,00001	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00004	
Zinc	Zn	mg/l	<0,174	
Gold (total)	Au	mg/l	<0,00002	
Cérium (total)	Ce	mg/l	0,00017	
Césium (total)	Cs	mg/l	0,0431	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00016	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00002	
Néodymium (total)	Nd	mg/l	<0,00004	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0072	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-50

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	993	1013	1008	1014	1008	1026	1021	1011	1018	1021	1023
pH	pH	No unit	5,92	6,55	6,05	5,9	6,21	6,09	6,19	6,49	6,37	6,4	6,20
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<3,0				<2,0
Conductivité	Conductivité	µS/cm	63	59	53	61	60	60	53	51	54	58	51
Acidité	Acidité	$mgCaCO_3/l$			<7,0				7				5
Fluoride	F	mg/l			<0,86				<0,66				<0,83
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			19				19				21
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,042				0,055				0,062
Arsenic	As	mg/l			0,0020				0,0008				0,0006
Baryum	Ba	mg/l			0,00065				0,0006				0,00058
Beryllium	Be	mg/l			<0,00012				<0,000119				<0,000112
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			7,84				7,16				7,03
Cadmium	Cd	mg/l			<0,000638				0,000589				<0,000579
Cobalt	Co	mg/l			0,0505				0,0509				0,050300
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,002				<0,001				<0,001
Fer	Fe	mg/l			<0,552				<0,724				<0,716
Potassium	K	mg/l			0,151				0,323				0,135
Lithium	Li	mg/l			0,0126				0,0126				0,0116
Magnésium	Mg	mg/l			0,266				0,277				0,286
Manganese	Mn	mg/l			0,0573				0,0642				0,07130
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,13				0,12				0,12
Nickel	Ni	mg/l			0,0834				0,0836				0,0867
Plomb	Pb	mg/l			<0,00009				<0,00012				<0,00009
Antimoine	Sb	mg/l			<0,0054				<0,0044				<0,0041
Sélénium	Se	mg/l			0,00058				0,00031				0,00023
Etain	Sn	mg/l			0,00022				<0,00006				<0,00007
Strontium	Sr	mg/l			0,0046				0,00434				0,00419
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000058				<0,000043				<0,000045
Uranium	U	mg/l			0,000309				0,000357				0,000260
Vanadium	V	mg/l			0,00001				0,00001				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00008				<0,00011				<0,0001
Zinc	Zn	mg/l			<0,353				<0,333				<0,332
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00034				0,00039				<0,00038
Césium (total)	Cs	mg/l			0,0513				0,0465				0,0489
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00002				<0,00002				<0,00003
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00028				0,00031				<0,00031
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00007
Néodymium (total)	Nd	mg/l			<0,00009				<0,00011				<0,00011
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00003				<0,00003				<0,00004
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0093				0,0082				0,0080
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00002				<0,00002
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	876	932	978	1002	966	1005	1012	996	963	996	1014
pH	pH	No unit	8,82	7,95	8,82	8,62	7,27	7,81	7,35	7,42	7,74	8,00	8,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	17	13	12	15	11	18	10	13	10	10	10
Conductivité	Conductivité	µS/cm	45	39	38	44	31	34	26	29	27	30	31
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	3	3	3
Chlore	Cl^-	mg/l	3	4	2	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,161	0,064	0,061	0,040	0,046	0,063	0,037	0,044	0,054	0,041	0,040
Arsenic	As	mg/l	0,0023	0,0049	0,0095	0,0120	0,0145	0,0170	0,0183	0,0215	0,0199	0,0236	0,0249
Baryum	Ba	mg/l	0,00161	0,00095	0,00087	0,00081	0,00070	0,00115	0,00062	0,00064	0,00064	0,00060	0,00110
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,009	0,019	0,018	0,016	0,012	0,011	0,008	0,007	0,006	0,006	0,006
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,04	4,11	3,69	4,06	3,93	4,76	3,99	4,18	4,15	3,95	4,45
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000012	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000034	0,000033	0,000036	0,000040	0,000046	0,000088	0,000066	0,000073	0,000054	0,000085	0,000090
Chrome	Cr	mg/l	0,00008	0,00011	<0,00008	0,00018	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00012	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0004	<0,0002	0,0003	0,0003	<0,0002	<0,0002	<0,0002	<0,0007	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,008	0,007	<0,007	0,007	0,022
Potassium	K	mg/l	3,15	2,40	2,30	1,960	1,410	1,580	1,280	1,170	0,975	0,939	0,946
Lithium	Li	mg/l	0,0269	0,0391	0,0394	0,0286	0,0204	0,0206	0,0158	0,0136	0,0130	0,0133	0,0124
Magnésium	Mg	mg/l	0,363	0,398	0,373	0,422	0,340	0,492	0,489	0,447	0,398	0,444	0,532
Manganese	Mn	mg/l	0,00268	0,01220	0,01430	0,01670	0,01680	0,02170	0,01550	0,01684	0,01700	0,01489	0,01630
Molybdène	Mo	mg/l	0,00092	0,00056	0,00057	0,00046	0,00028	0,00027	0,00023	0,00025	0,00017	0,00028	0,00018
Sodium	Na	mg/l	2,30	2,40	2,01	1,35	0,91	0,89	1,14	0,52	0,44	0,38	0,33
Nickel	Ni	mg/l	0,0003	0,0003	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0014	0,0012	0,0015	0,0009	0,0019	0,0009	0,0015	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00006	0,00010	0,00025	0,00004	0,00006	0,00008	0,00010	0,00012	0,00006	0,00008	0,00004
Etain	Sn	mg/l	0,00027	0,00012	0,00009	0,00006	0,00007	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0086	0,0069	0,00604	0,0070	0,00588	0,0071	0,0158	0,00657	0,0057	0,00653	0,0072
Titane	Ti	mg/l	0,00017	0,00028	0,00042	0,00071	0,00042	<0,00026	0,00032	0,00040	0,00042	0,00025	0,00012
Thallium	Th	mg/l	0,000005	<0,000009	0,000008	<0,000005	<0,000005	0,000005	<0,000009	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,002230	0,002570	0,002203	0,002410	0,000540	0,000717	0,003000	0,006933	0,00076	0,001230	0,001136
Vanadium	V	mg/l	0,00141	0,00136	0,00130	0,00104	0,00109	0,00102	0,00084	0,00100	0,00087	0,00094	0,00081
Tungstène	W	mg/l	0,00391	0,00433	0,00390	0,00245	0,00147	0,00088	0,00081	0,00068	0,00050	0,00048	0,00043
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00005	<0,00004	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00002	0,00001	0,00002	<0,00001	0,00001	0,00002	0,00003	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0207	0,0247	0,0255	0,0283	0,0264	0,0258	0,0347	0,0289	0,0279	0,0294	0,0301
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0094	0,0061	0,0055	0,0052	0,0040	0,0043	0,0036	0,0036	0,0029	0,0030	0,0029
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	981	969	980	940	897	978	961	945	910	936	950
pH	pH	No unit	7,65	7,45	7,31	7,45	7,26	7,56	7,46	7,61	7,25	7,49	7,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	9	7	8	9	9	9	8	6	6	7
Conductivité	Conductivité	µS/cm	27	26	18	28	30	25	26	28	29	25	25
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	3	4	4	6	3	4	5	7	<4,0	4
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00002		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00011	<0,00005
Aluminum	Al	mg/l	0,056	0,048	0,044	0,044	0,037	0,034	0,038	0,039	0,041	0,037	0,036
Arsenic	As	mg/l	0,0180	0,0207	0,0223	0,0174	0,0276	0,0199	0,0220	0,0270	0,0261	0,0235	0,0187
Baryum	Ba	mg/l	0,00110	0,00059	0,00054	0,00063	0,00076	0,00052	0,00051	0,00061	0,00064	0,00047	0,00046
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,004	0,003	0,004	0,004	0,004	0,003	0,003	0,003	0,003	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,64	4,16	3,89	4,20	4,08	3,77	4,09	4,33	4,40	3,62	3,74
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000085	0,000066	0,000087	0,000063	0,000069	0,000044	0,000059	0,000058	0,000064	0,000057	0,000059
Chrome	Cr	mg/l	0,00016	0,00008	0,00055	<0,00008	<0,00008	0,00009	<0,00008	0,00008	<0,00036	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0032	0,0005	0,0002	0,0002	<0,0002	<0,0003	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,030	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,008	<0,007	0,007
Potassium	K	mg/l	0,652	0,635	0,615	0,692	1,020	0,525	0,551	0,562	0,610	0,444	0,352
Lithium	Li	mg/l	0,0115	0,0080	0,0080	0,0081	0,0154	0,0068	0,0078	0,0072	0,0080	0,0061	0,0059
Magnésium	Mg	mg/l	0,444	0,416	0,402	0,461	0,77	0,405	0,493	0,503	0,623	0,427	0,391
Manganese	Mn	mg/l	0,01180	0,01580	0,01640	0,01490	0,01140	0,01360	0,01360	0,01300	0,01110	0,00983	0,00995
Molybdène	Mo	mg/l	0,00013	0,00010	0,00078	0,00037	0,00018	0,00008	0,00022	0,00018	0,00020	0,00039	0,00038
Sodium	Na	mg/l	0,25	0,22	0,22	0,24	0,34	0,14	0,13	0,17	0,18	0,10	0,11
Nickel	Ni	mg/l	0,0001	0,0002	0,0212	0,0003	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001	0,0002
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00009	0,00006	0,00004	0,00006	0,00011	0,00007	0,00007	0,00004	0,00008	0,00008	0,00008
Etain	Sn	mg/l	<0,00006	<0,00006	0,00012	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,0056	0,00574	0,0058	0,0070	0,0051	0,0058	0,0062	0,0065	0,0050	0,00478
Titane	Ti	mg/l	0,00262	0,00025	0,00010	0,00015	0,00009	0,00026	0,00018	0,00011	0,00019	0,00010	0,0001
Thallium	Th	mg/l	0,000011	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000233	0,00056	0,002430	0,000387	0,000654	0,000574	0,00089	0,000674	0,001240	0,00048	0,00299
Vanadium	V	mg/l	0,00080	0,00074	0,00066	0,00065	0,00085	0,00066	0,00069	0,00079	0,00073	0,00062	0,00054
Tungstène	W	mg/l	0,00043	0,00022	0,00018	0,00013	0,00028	0,00015	0,00027	0,00016	0,00017	0,00012	0,00011
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00002		<0,00001	
Césium (total)	Cs	mg/l					0,0288	0,0232		0,0282		0,0228	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0034	0,0020		0,0020		0,0017	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	936	941	1000	954	972	960	955	960	937	965	986
pH	pH	No unit	7,27	7,26	7,33	7,2	7,1	7,14	7,4	7,35	7,66	7,04	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	7	6	6	6	7	6	5	5	6
Conductivité	Conductivité	µS/cm	25	24	23	30	26	26	27	28	25	25	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	5	5	4	5	5	6	5	5	5	5	5
Chlore	Cl^-	mg/l				7					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,033	0,038	0,033	0,038	0,036	0,034	0,042	0,034	0,038	0,034	0,035
Arsenic	As	mg/l	0,0189	0,0189	0,018	0,0187	0,0168	0,0168	0,0176	0,0169	0,0159	0,0149	0,0153
Baryum	Ba	mg/l	0,00044	0,00038	0,00054	0,00043	0,00048	0,00038	0,0004	0,00051	0,00039	0,00036	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,86	3,94	3,84	4,25	4,36	4,51	4,8	4,04	4,49	4,00	3,79
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000004
Cobalt	Co	mg/l	0,000059	0,00005	0,000059	0,000065	0,000063	0,000062	0,000047	0,000053	0,000055	0,000078	0,000061
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0005	<0,0004	0,0002	<0,0007	<0,0002	<0,0013	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,017	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,376	0,348	0,339	0,311	0,316	0,283	0,298	0,24	0,284	0,232	0,197
Lithium	Li	mg/l	0,0054	0,005	0,0048	0,0041	0,004	0,0037	0,0046	0,0033	0,005	0,0039	0,0035
Magnésium	Mg	mg/l	0,395	0,374	0,361	0,358	0,328	0,343	0,331	0,282	0,329	0,287	0,255
Manganese	Mn	mg/l	0,00919	0,00974	0,01149	0,00897	0,00786	0,00792	0,00755	0,00718	0,00692	0,00656	0,00663
Molybdène	Mo	mg/l	0,00028	0,00032	0,0017	0,0003	0,00014	0,00029	0,00009	0,00004	0,00016	0,00017	0,00533
Sodium	Na	mg/l	0,10	0,09	0,22	0,15	0,16	0,09	0,11	0,06	0,09	0,12	0,08
Nickel	Ni	mg/l	0,0002	0,0001	0,0002	0,0002	0,0002	0,0001	0,0001	0,0002	0,0001	0,0001	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00016	<0,00009	<0,00014	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00006	0,00004	0,00005	0,00005	0,00012	0,00004	0,00004	0,00004	0,00006	0,00008	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0054	0,00504	0,00509	0,00575	0,00535	0,0050	0,00503	0,0049	0,00446	0,0044	0,0043
Titane	Ti	mg/l	0,00013	<0,00013	0,00016	0,00011	0,00007	0,00014	<0,00007	0,00008	0,00007	0,00009	<0,00014
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,002990	0,000517	0,00256	0,00451	0,000451	0,002050	0,000514	0,000388	0,000975	0,00030	0,005680
Vanadium	V	mg/l	0,00053	0,0005	0,00052	0,00049	0,00043	0,00038	0,00043	0,00044	0,00037	0,00036	0,00035
Tungstène	W	mg/l	0,00020	0,00009	0,00011	0,00008	0,00007	0,00006	0,00006	0,00006	0,00009	0,00006	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0223					0,0186		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0012					0,0012		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	947	998	971	925	982	953	982	904	1004	1000	934
pH	pH	No unit	7,19	6,93	7,19	7,11	7,84	6,99	7,54	7,46	7,51	7,77	7,45
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	6	7	6	6	7	15	8	8	8	8
Conductivité	Conductivité	µS/cm	24	32	29	30	29	31	55	33	30	26	28
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,05	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	4	6	6	7	6	7	9	7	5	5	6
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,032	0,036	0,037	0,036	0,039	0,042	0,119	0,064	0,049	0,042	0,042
Arsenic	As	mg/l	0,0134	0,0137	0,0128	0,0157	0,0116	0,0124	0,0284	0,0146	0,0128	0,0117	0,0125
Baryum	Ba	mg/l	0,00033	0,00051	0,00039	0,00035	0,00031	0,00031	0,00112	0,00044	0,00037	0,00031	0,00054
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,72	4,29	4,46	4,54	4,28	4,70	8,52	5,98	4,71	4,41	4,89
Cadmium	Cd	mg/l	<0,000003	<0,000006	<0,000003	<0,000003	<0,000004	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000062	0,000065	0,000067	0,000054	0,000076	0,000060	0,000133	0,000050	0,000044	0,000046	0,000052
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,021	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,174	0,174	0,169	0,207	0,185	0,186	0,360	0,235	0,146	0,129	0,174
Lithium	Li	mg/l	0,0031	0,0029	0,0026	0,0032	0,0029	0,0029	0,0048	0,0029	0,0022	0,0018	0,0025
Magnésium	Mg	mg/l	0,221	0,224	0,210	0,247	0,206	0,220	0,344	0,229	0,153	0,127	0,173
Manganese	Mn	mg/l	0,00680	0,00665	0,00677	0,00724	0,00779	0,00691	0,01700	0,01180	0,00989	0,00847	0,00896
Molybdène	Mo	mg/l	0,00017	0,01170	0,00031	0,00009	0,00005	0,00023	0,00040	<0,0004	<0,0004	<0,0004	<0,0028
Sodium	Na	mg/l	0,05	0,10	0,06	0,10	0,09	0,06	0,09	0,11	0,07	0,05	0,07
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0003	0,0003	0,0004	0,0003	0,0002	0,0002	0,0002
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00067	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00004	0,00005	0,00006	0,00004	0,00004	0,00004	0,00009	0,00007	0,00004	0,00005	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0042	0,0048	0,0046	0,0044	0,0041	0,0048	0,0083	0,00504	0,00395	0,00357	0,00438
Titane	Ti	mg/l	<0,00007	0,00012	<0,00008	0,00011	0,00020	0,00017	0,00100	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000581	0,000391	0,00040	0,000440	0,000381	0,00042	0,00074	0,001270	0,000442	0,002960	0,000270
Vanadium	V	mg/l	0,00031	0,00034	0,00032	0,00033	0,00027	0,00031	0,00071	0,00039	0,00030	0,00029	0,00027
Tungstène	W	mg/l	0,00006	0,00007	0,00011	0,00006	0,00005	0,00005	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0170					0,0232			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0009					0,0010			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	952	963	1003	981	957	1003	978	984	1003	998	973
pH	pH	No unit	7,33	7,18	7,35	7,34	7,41	7,29	7,26	7,55	7,41	7,09	7,41
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	8	6	6	6	6	7	6	8
Conductivité	Conductivité	µS/cm	30	27	28	26	29	27	27	29	27	30	27
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	6	5	6	6	5	6	5	6	6
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,036	0,038	0,033	0,032	0,037	0,035	0,038	0,033	0,042	0,041	0,036
Arsenic	As	mg/l	0,0106	0,0106	0,0114	0,0126	0,0111	0,0116	0,0095	0,0087	0,0089	0,0085	0,0088
Baryum	Ba	mg/l	0,00035	0,00036	0,00037	0,00031	0,00027	0,00034	0,00032	0,00027	0,00033	0,00036	0,00027
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	4,45	4,66	4,32	4,33	4,13	4,73	4,64	4,50	5,16	5,06	4,20
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000070	0,000056	0,000054	0,000059	0,000049	0,000070	0,000041	0,000050	0,000057	0,000050	0,000040
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,155	0,171	0,148	0,152	0,129	0,144	0,119	0,123	0,118	0,133	0,098
Lithium	Li	mg/l	0,0024	0,0022	0,0023	0,0019	0,0017	0,0018	0,0016	0,0016	0,0017	0,0018	0,0015
Magnésium	Mg	mg/l	0,172	0,173	0,155	0,141	0,136	0,147	0,133	0,125	0,135	0,146	0,118
Manganese	Mn	mg/l	0,00810	0,00779	0,00656	0,00582	0,00597	0,00691	0,00586	0,00548	0,00583	0,00541	0,00425
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0021	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,06	0,05	0,04	0,05	0,06	0,04	0,05	0,05	0,06	0,04
Nickel	Ni	mg/l	0,0004	0,0002	0,0001	0,0003	0,0002	0,0003	0,0002	0,0001	0,0002	0,0005	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00016	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009
Sélénium	Se	mg/l	0,00004	0,00004	0,00005	0,00006	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00014	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00396	0,00411	0,00431	0,00404	0,00364	0,00431	0,00411	0,00398	0,00405	0,00382	0,00317
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000838	0,000407	0,000603	0,000486	0,000381	0,000463	0,000354	0,000278	0,000328	0,000228	0,000226
Vanadium	V	mg/l	0,00025	0,00027	0,00026	0,00027	0,00025	0,00029	0,00026	0,00022	0,00024	0,00022	0,00023
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0188					0,0165				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0009					0,0007				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	971	981	1010	990	1001	1002	1015	945	935	968	969
pH	pH	No unit	7,47	7,28	7,27	7,19	7,26	6,93	7,02	6,87	6,99	7,24	7,11
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	7	7	7	6	6	7	6		5	
Conductivité	Conductivité	µS/cm	30	26	25	24	25	30	31	31	29	25	29
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	8	5	5	6	6	6	7		6	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,037	0,025	0,031	0,039	0,035	0,034	0,037	0,043		0,036	
Arsenic	As	mg/l	0,0086	0,0027	0,0082	0,0085	0,0076	0,0081	0,0088	0,0071		0,0077	
Baryum	Ba	mg/l	0,00031	0,00024	0,00035	0,00034	0,00039	0,00040	0,00037	0,00054		0,00040	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	4,82	6,86	4,69	4,79	4,80	4,99	4,70	5,23		4,58	
Cadmium	Cd	mg/l	<0,000003	<0,000049	<0,000003	<0,000012	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000046	0,003100	0,000044	0,000057	0,000061	0,000060	0,000059	0,000070		0,000065	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00009	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,120	0,118	0,113	0,128	0,114	0,116	0,116	0,106		0,128	
Lithium	Li	mg/l	0,0017	0,0062	0,0015	0,0015	0,0015	0,0017	0,0017	0,0014		0,0013	
Magnésium	Mg	mg/l	0,133	0,069	0,124	0,129	0,125	0,141	0,121	0,120		0,120	
Manganese	Mn	mg/l	0,00515	0,00748	0,00450	0,00512	0,00548	0,00549	0,00564	0,00497		0,00513	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0294	<0,0004	<0,0004	<0,0004	<0,0004		<0,0009	
Sodium	Na	mg/l	0,06	0,08	0,06	0,07	0,05	0,07	0,04	0,05		0,14	
Nickel	Ni	mg/l	0,0001	0,0027	0,0002	0,0002	0,0004	0,0003	0,0003	0,0005		0,0003	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0009	0,0115	0,0009	0,0009	0,0009	0,0009	0,0009	0,0009		0,0009	
Sélénium	Se	mg/l	0,00004	0,00055	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004		0,00005	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00374	0,00382	0,00321	0,00375	0,00375	0,00446	0,00398	0,00408		0,00342	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000019	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000217	0,001280	0,000278	0,000276	0,000278	0,000359	0,000339	0,000231		0,000176	
Vanadium	V	mg/l	0,00024	0,00005	0,00022	0,00027	0,00021	0,00022	0,00024	0,00019		0,00023	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,01	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0162					0,0165				0,0170	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0007					0,0007				0,0006	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	976	975	982	950	980	966	997	1010	1026	984	986
pH	pH	No unit	7,09	7,16	7,15	6,85	7,07	7,12	7,14	7,16	7,28	7,15	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$			9				6				5
Conductivité	Conductivité	µS/cm	32	30	25	29	32	30	26	31	30	30	26
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			6				6				6
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,037				0,029				0,031
Arsenic	As	mg/l			0,0062				0,0050				0,0045
Baryum	Ba	mg/l			0,00027				0,00040				0,00035
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			4,75				4,97				4,79
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000051				0,000070				0,000058
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,103				0,097				0,079
Lithium	Li	mg/l			0,0014				0,0012				0,0010
Magnésium	Mg	mg/l			0,113				0,107				0,106
Manganese	Mn	mg/l			0,00535				0,00561				0,00462
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,08
Nickel	Ni	mg/l			0,0003				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0009				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00008				<0,00006
Strontium	Sr	mg/l			0,00317				0,00296				0,00299
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000206				0,000301				0,000246
Vanadium	V	mg/l			0,00023				0,00016				0,00016
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0160				0,0156				0,0137
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0007				0,0006				0,0008
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	993	999	998	1014	1007	1005	1008	1006	959	1010	1023
pH	pH	No unit	6,96	7,11	7,01	7,00	7,39	7,08	7,25	7,05	7,07	7,25	7,07
Alkalinité	Alkalinité	$mgCaCO_3/l$				<5,0				7			
Conductivité	Conductivité	µS/cm	29	30	28	28	31	32	36	26	31	32	33
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				6				6			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,030				0,027			
Arsenic	As	mg/l				0,0047				0,0039			
Baryum	Ba	mg/l				0,00035				0,00024			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				4,79				4,68			
Cadmium	Cd	mg/l				<0,000006				<0,000003			
Cobalt	Co	mg/l				0,000080				0,000048			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,088				0,071			
Lithium	Li	mg/l				0,0014				0,001			
Magnésium	Mg	mg/l				0,102				0,084			
Manganese	Mn	mg/l				0,00557				0,00393			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,07				0,04			
Nickel	Ni	mg/l				0,0009				0,0003			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00005			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00339				0,00304			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000289				0,000165			
Vanadium	V	mg/l				0,00016				0,00016			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0136				0,014			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0005				0,0005			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1016	1002
pH	pH	No unit	6,85	7
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	
Conductivité	Conductivité	µS/cm	32	34
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	6	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,03	
Arsenic	As	mg/l	0,0047	
Baryum	Ba	mg/l	0,00028	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	5,08	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000113	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,064	
Lithium	Li	mg/l	0,001	
Magnésium	Mg	mg/l	0,088	
Manganese	Mn	mg/l	0,00429	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,03	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00298	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000113	
Vanadium	V	mg/l	0,00015	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0132	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0005	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-56

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	998	1034	1023	976	958	1010	1003	1003	998	990	968
pH	pH	No unit	6,98	7,07	6,86	6,86	6,72	6,66	6,88	7	6,74	6,77	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$			8				<6,0				<5,0
Conductivité	Conductivité	µS/cm	35	35	33	37	35	38	30	32	36	32	29
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			8				7				9
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,031				0,029				0,027
Arsenic	As	mg/l			0,0046				0,0039				0,0032
Baryum	Ba	mg/l			0,00031				0,00032				0,00028
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			5,87				4,91				4,92
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000088				0,000064				0,000060
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,099				0,075				0,078
Lithium	Li	mg/l			0,0012				0,0011				0,0009
Magnésium	Mg	mg/l			0,114				0,094				0,094
Manganese	Mn	mg/l			0,00647				0,00579				0,00655
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,05				0,05
Nickel	Ni	mg/l			0,0004				0,0002				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00369				0,00275				0,00256
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000269				0,00016				0,000129
Vanadium	V	mg/l			0,00019				0,00013				0,00012
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0173				0,0133				0,0135
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0007				0,0005				0,0005
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	827	953	1009	1012	996	998	975	984	982	1006	984
pH	pH	No unit	7,31	7,12	7,11	7,08	6,80	6,88	6,69	6,84	6,86	7,02	7,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	9	7	5	7	4	3	2	4	3	4	3
Conductivité	Conductivité	µS/cm	27	27	23	29	25	23	20	20	22	23	24
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	4	4	2	3	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,04	<0,12	<0,16	<0,19	<0,26	<0,15	<0,21	<0,26	<0,18	<0,21
Sulfate	SO_4^{2-}	mg/l	3	4	5	5	5	5	5	4	5	4	4
Chlore	Cl^-	mg/l	1	3	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,038	0,012	0,010	0,007	0,007	0,001	0,010	0,007	0,008	0,007	0,007
Arsenic	As	mg/l	0,0432	0,3060	0,5010	0,6030	0,8360	0,8540	0,7290	0,8370	0,9060	0,8860	0,9470
Baryum	Ba	mg/l	0,00045	0,00040	0,00039	0,00034	0,00037	0,00031	0,00029	0,00030	0,00035	0,00026	0,00033
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,007	0,009	0,008	0,006	0,008	0,004	0,003	0,003	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,62	2,39	2,23	2,24	2,66	2,59	2,33	2,35	2,46	2,36	2,67
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000016	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000063	0,000179	0,000373	0,000394	0,000470	0,000782	0,000499	0,000509	0,000555	0,000523	0,000643
Chrome	Cr	mg/l	0,00050	0,00025	<0,00018	0,00025	<0,0001	<0,00008	<0,00017	<0,00011	<0,00012	0,00014	<0,00008
Cuivre	Cu	mg/l	0,0006	0,0002	<0,0004	<0,0002	0,0003	0,0055	<0,0002	<0,0002	<0,0003	<0,0002	0,0002
Fer	Fe	mg/l	<0,014	0,007	0,008	0,007	<0,007	0,007	0,010	0,007	<0,007	0,007	0,023
Potassium	K	mg/l	0,63	0,40	0,31	0,254	0,265	0,238	0,179	0,180	0,190	0,155	0,161
Lithium	Li	mg/l	0,0060	0,0072	0,0068	0,0059	0,0065	0,0060	0,0046	0,0048	0,0056	0,0051	0,0051
Magnésium	Mg	mg/l	0,490	0,714	0,725	0,689	0,769	0,827	0,654	0,691	0,707	0,639	0,726
Manganese	Mn	mg/l	0,00082	0,00188	0,00225	0,00176	0,00157	0,00216	0,00148	0,00136	0,00160	0,00134	0,00183
Molybdène	Mo	mg/l	0,00033	0,00032	0,00029	0,00026	0,00047	0,00132	0,00181	0,00013	0,00046	0,00013	0,00022
Sodium	Na	mg/l	2,27	1,87	1,18	0,79	0,71	0,57	0,36	0,37	0,36	0,26	0,25
Nickel	Ni	mg/l	0,0029	0,0022	0,0030	0,0039	0,0051	0,0074	0,0047	0,0060	0,0055	0,0046	0,0067
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0023	0,0125	0,0135	0,0160	0,0162	0,0209	0,0134	0,0163	0,0151	0,0161	0,0167
Sélénium	Se	mg/l	0,00010	0,00009	0,00017	0,00004	0,00009	0,00009	0,00011	0,00006	0,00007	0,00005	0,00008
Etain	Sn	mg/l	0,00046	0,00016	0,00012	0,00006	0,00006	0,00006	0,00006	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0154	0,0174	0,01682	0,0158	0,01900	0,0168	0,0151	0,01513	0,0152	0,01449	0,0151
Titane	Ti	mg/l	0,00028	0,00026	0,00019	0,00056	0,00010	<0,00015	0,00026	0,00018	0,00020	0,00013	0,00013
Thallium	Th	mg/l	0,000015	<0,000005	0,000007	<0,000005	<0,000008	0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000152	0,000155	0,000206	0,000020	0,001850	0,000119	0,000094	0,000070	0,00022	0,000117	0,001307
Vanadium	V	mg/l	0,00061	0,00100	0,00096	0,00087	0,00104	0,00093	0,00078	0,00085	0,00091	0,00094	0,00093
Tungstène	W	mg/l	0,00221	0,00443	0,00369	0,00241	0,00231	0,00137	0,00122	0,00106	0,00100	0,00082	0,00083
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00002	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0361	0,0226	0,0188	0,0183	0,0187	0,0145	0,0140	0,0140	0,0163	0,0136	0,0138
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0004	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0152	0,0099	0,0081	0,0067	0,0071	0,0062	0,0048	0,0053	0,0054	0,0049	0,0051
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1001	1010	983	927	896	937	968	979	962	980	997
pH	pH	No unit	6,85	6,89	6,70	6,80	7,00	6,93	6,86	6,92	6,82	6,77	6,64
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	3	2	2	4	3	3	3	2	2	2
Conductivité	Conductivité	µS/cm	20	20	17	21	29	24	14	14	12	13	13
Acidité	Acidité	$mgCaCO_3/l$	3	3	3	3	3	2	2	2	3	3	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,22	<0,22	<0,21	<0,21	<0,35	<0,2	<0,21	<0,19	<0,13	<0,13	<0,11
Sulfate	SO_4^{2-}	mg/l	4	4	4	4	5	3	2	2	3	<2,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00014	<0,00005
Aluminum	Al	mg/l	0,023	0,006	0,008	0,019	0,017	0,014	0,009	0,008	0,009	0,007	0,005
Arsenic	As	mg/l	0,8540	0,9310	0,8030	0,6580	1,0700	0,7040	0,7500	0,6810	0,4890	0,5270	0,405
Baryum	Ba	mg/l	0,00021	0,00032	0,00021	0,00032	0,00031	0,00021	0,00019	0,00022	0,00022	0,00024	0,00023
Beryllium	Be	mg/l	0,000008	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000013	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,22	2,34	2,14	2,86	3,44	2,12	1,85	1,90	1,64	1,69	1,67
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000615	0,000740	0,000667	0,000696	0,000370	0,000353	0,000469	0,000366	0,000385	0,000430	0,000418
Chrome	Cr	mg/l	0,00086	0,00023	0,00008	<0,00041	<0,00032	0,00047	<0,00019	0,00012	<0,00015	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	0,0006	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,031	0,008	<0,007	<0,024	0,020	<0,016	<0,009	0,007	<0,009	<0,007	0,012
Potassium	K	mg/l	0,129	0,116	0,093	0,101	0,154	0,087	0,095	0,100	0,071	0,083	0,059
Lithium	Li	mg/l	0,0060	0,0045	0,0036	0,0029	0,0045	0,0029	0,0035	0,0031	0,0025	0,0029	0,0029
Magnésium	Mg	mg/l	0,687	0,658	0,503	0,530	0,84	0,427	0,478	0,470	0,421	0,413	0,384
Manganese	Mn	mg/l	0,00173	0,00178	0,00147	0,00191	0,00136	0,00120	0,00150	0,00140	0,00128	0,00146	0,00153
Molybdène	Mo	mg/l	0,00007	0,00007	0,00162	0,00037	0,00007	0,00006	0,00020	0,00011	0,00101	0,00040	0,00029
Sodium	Na	mg/l	0,19	0,18	0,14	0,17	0,22	0,11	0,08	0,11	0,09	0,07	0,08
Nickel	Ni	mg/l	0,0041	0,0063	0,0057	0,0045	0,0024	0,0023	0,0032	0,0030	0,0029	0,0032	0,0036
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00024	<0,00014	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0152	0,0148	0,0139	0,0083	0,0165	0,0112	0,0119	0,0141	0,0076	0,0091	0,0074
Sélénium	Se	mg/l	0,00008	0,00006	0,00004	0,00005	0,00012	0,00006	0,00009	0,00004	0,00004	0,00004	0,00005
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0128	0,0133	0,01197	0,0150	0,0194	0,0110	0,0097	0,0099	0,0088	0,0103	0,00817
Titane	Ti	mg/l	0,00089	0,00012	0,00015	0,00065	0,00018	0,00047	0,00030	0,00013	0,00028	0,00012	0,00007
Thallium	Th	mg/l	0,000011	<0,000007	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000007	0,00005	0,000187	0,000267	0,000104	0,000016	0,00050	0,000012	0,000037	0,00001	0,000208
Vanadium	V	mg/l	0,00093	0,00088	0,00074	0,00064	0,00081	0,00068	0,00074	0,00075	0,00058	0,00063	0,00053
Tungstène	W	mg/l	0,00088	0,00059	0,00050	0,00040	0,00079	0,00041	0,00045	0,00033	0,00031	0,00028	0,00023
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0143	0,0105		0,0121		0,0100	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0058	0,0035		0,0038		0,0032	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	981	982	1000	978	1008	996	996	962	951	998	1019
pH	pH	No unit	6,56	6,62	6,64	6,15	6,77	6,40	6,57	6,53	6,54	6,38	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	2	2	2	2	3	2	2	2	4	2
Conductivité	Conductivité	µS/cm	11	11	12	13	13	11	11	17	14	13	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	3	<2,0	4	3	<2,0	2	<2,0	3	<3,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,08	<0,07	<0,07	<0,12	<0,06	<0,11	<0,06	<0,09	<0,06	<0,05	<0,06
Sulfate	SO_4^{2-}	mg/l	2	2	2	3	3	4	2	4	4	3	3
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,018	0,011	0,005	0,006	0,005	0,004	0,006	0,009	0,008	0,004	0,004
Arsenic	As	mg/l	0,3400	0,337	0,372	0,356	0,341	0,3330	0,234	0,268	0,319	0,3130	0,3400
Baryum	Ba	mg/l	0,00177	0,00012	0,00014	0,00012	0,00028	0,00015	0,00015	0,0002	0,00016	0,00013	0,00023
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,48	1,39	1,41	1,57	1,4	1,50	1,51	1,8	2,1	1,39	1,41
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000039	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000459	0,000462	0,000527	0,0005	0,000488	0,000491	0,000536	0,000597	0,000519	0,000428	0,000597
Chrome	Cr	mg/l	<0,00014	<0,00012	<0,00008	<0,0002	<0,00008	<0,0001	<0,00011	<0,00023	<0,00009	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0008	<0,0005	0,0011	<0,0002	<0,0002	<0,0008	<0,0002	0,0002	<0,0004	<0,0002	<0,0002
Fer	Fe	mg/l	<0,008	<0,007	<0,016	<0,007	<0,007	<0,007	<0,007	<0,012	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,056	0,051	0,043	0,067	0,07	0,039	0,038	0,016	0,051	0,038	0,039
Lithium	Li	mg/l	0,0028	0,0019	0,0021	0,0022	0,0019	0,0017	0,0016	0,0016	0,0021	0,0019	0,0021
Magnésium	Mg	mg/l	0,321	0,298	0,302	0,365	0,301	0,320	0,27	0,311	0,398	0,292	0,323
Manganese	Mn	mg/l	0,00166	0,00101	0,00221	0,00151	0,00155	0,00128	0,00132	0,00157	0,00152	0,00117	0,00167
Molybdène	Mo	mg/l	0,00017	0,00059	0,00014	0,00034	0,00208	0,00011	0,00006	0,00004	0,00016	0,00086	0,00004
Sodium	Na	mg/l	0,05	0,05	0,07	0,12	0,17	0,06	0,06	0,03	0,07	0,05	0,06
Nickel	Ni	mg/l	0,0036	0,0033	0,0059	0,0041	0,0044	0,0043	0,0045	0,0043	0,0037	0,0031	0,0047
Plomb	Pb	mg/l	0,00012	<0,0001	<0,00022	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0057	0,0063	0,006	0,007	0,0057	0,0066	0,0044	0,0052	0,0051	0,0054	0,0063
Sélénium	Se	mg/l	0,00004	0,00004	0,00013	0,00004	0,00011	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0073	0,00696	0,00725	0,00809	0,00701	0,0069	0,00671	0,00955	0,00878	0,0064	0,0072
Titane	Ti	mg/l	0,00028	<0,00016	0,00007	0,0001	0,00007	0,00007	<0,00007	0,00026	0,00022	0,00009	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000048	0,000025	0,000076	0,00144	0,000024	0,000015	0,000016	0,000018	0,000016	0,00001	0,000027
Vanadium	V	mg/l	0,00050	0,00042	0,00048	0,00052	0,00039	0,00038	0,00031	0,00028	0,00032	0,00032	0,00039
Tungstène	W	mg/l	0,00024	0,00017	0,00017	0,00016	0,00016	0,00014	0,00011	0,00013	0,00017	0,00011	0,00012
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,003	<0,002	<0,005	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0091					0,0065		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0024					0,002		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	957	996	964	993	992	996	1009	982	1011	1003	941
pH	pH	No unit	6,56	6,49	6,74	6,80	7,00	6,56	6,65	6,75	6,69	6,64	6,47
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	3	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	12	13	15	15	14	14	18	18	14	13	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<3,0	<6,0	<2,0	<3,0	<3,0	<2,0	<2,0	<2,0	<3,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,07	<0,06	<0,04	<0,03	<0,06	<0,03	<0,15	<0,05	<0,04	<0,04	<0,03
Sulfate	SO_4^{2-}	mg/l	2	3	3	3	3	3	4	3	3	3	5
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,006	0,003	0,005	0,004	0,004	0,004	0,025	0,010	0,008	0,006	0,012
Arsenic	As	mg/l	0,2970	0,2660	0,2770	0,2510	0,2420	0,2380	0,3730	0,3280	0,2840	0,2310	0,1720
Baryum	Ba	mg/l	0,00058	0,00015	0,00083	0,00021	0,00017	0,00010	0,00022	0,00020	0,00015	0,00017	0,00017
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,001192
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,47	1,56	1,74	1,86	1,80	1,79	2,32	2,22	1,79	1,67	2,62
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000579	0,000762	0,000794	0,000927	0,000926	0,000916	0,001605	0,000920	0,000802	0,001060	0,001137
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00047	<0,00012	<0,00008	<0,00008	<0,0002
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0012	<0,0004	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,035	0,008	<0,007	<0,007	<0,013
Potassium	K	mg/l	0,036	0,030	0,037	0,048	0,047	0,041	0,064	0,056	0,033	0,019	0,031
Lithium	Li	mg/l	0,0019	0,0018	0,0019	0,0022	0,0021	0,0018	0,0025	0,0022	0,0016	0,0016	0,0017
Magnésium	Mg	mg/l	0,306	0,313	0,336	0,357	0,353	0,348	0,449	0,391	0,306	0,285	0,354
Manganese	Mn	mg/l	0,00153	0,00204	0,00194	0,00207	0,00212	0,00211	0,00417	0,00252	0,00216	0,00212	0,00280
Molybdène	Mo	mg/l	0,00025	0,00025	0,00010	0,00024	0,00054	0,00063	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,04	0,03	0,04	0,15	0,04	0,06	0,04	0,09	0,05	0,04	0,03
Nickel	Ni	mg/l	0,0051	0,0068	0,0071	0,0079	0,0082	0,0079	0,0116	0,0076	0,0072	0,0076	0,0081
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00018	<0,0005	<0,00024	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0056	0,0052	0,0049	0,0048	0,0052	0,0050	0,0064	0,0056	0,0050	0,0042	0,0028
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00008	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0071	0,0074	0,0084	0,0076	0,0077	0,0079	0,0104	0,00965	0,00788	0,00716	0,00983
Titane	Ti	mg/l	<0,00012	0,00007	<0,00017	0,00007	0,00007	0,00007	0,00097	0,0003	0,0001	<0,00015	<0,00024
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000014	<0,000005	<0,000005
Uranium	U	mg/l	0,000010	0,000010	0,00009	0,000049	0,000035	0,00174	0,00001	0,000026	0,000368	0,000201	0,000230
Vanadium	V	mg/l	0,00034	0,00034	0,00038	0,00035	0,00031	0,00034	0,00062	0,00049	0,00040	0,00035	0,00025
Tungstène	W	mg/l	0,00010	0,00010	0,00011	0,00010	0,00008	0,00009	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0076					0,0108			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0021					0,0027			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	951	1002	1003	991	983	1004	978	997	1000	935	983
pH	pH	No unit	6,38	6,39	6,24	6,38	6,55	6,13	6,15	6,22	6,21	6,34	6,23
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	19	13	13	12	13	10	15	14	13	14	13
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<4,0	<2,0	<2,0	<3,0	<4,0	<4,0	<3,0	<3,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	4	4	3	4	3	4	3	4	4	4
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00002					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,012	0,005	0,004	0,013	0,003	0,004	0,005	0,002	0,002	0,002	0,003
Arsenic	As	mg/l	0,1950	0,2040	0,1870	0,1920	0,1860	0,1200	0,1310	0,1360	0,1340	0,1230	0,0862
Baryum	Ba	mg/l	0,00017	0,00015	0,00016	0,00013	0,00016	0,00012	0,00016	0,00015	0,00020	0,00013	0,00029
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,21	1,68	1,39	1,59	1,75	1,31	1,91	1,73	1,76	1,79	1,80
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000009	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000012
Cobalt	Co	mg/l	0,001100	0,000846	0,000703	0,000780	0,000904	0,001203	0,001890	0,002220	0,002070	0,001670	0,001900
Chrome	Cr	mg/l	<0,00029	<0,00013	<0,00008	<0,00008	<0,00008	<0,00009	<0,00011	<0,0001	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,016	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,020	0,032	0,016	0,028	0,032	0,023	0,017	0,037	0,016	0,027	0,016
Lithium	Li	mg/l	0,0013	0,0013	0,0013	0,0012	0,0013	0,0009	0,0012	0,0013	0,0013	0,0014	0,0010
Magnésium	Mg	mg/l	0,330	0,315	0,248	0,269	0,283	0,218	0,302	0,289	0,284	0,296	0,249
Manganese	Mn	mg/l	0,00259	0,00195	0,00186	0,00183	0,00222	0,00250	0,00400	0,00419	0,00432	0,00355	0,00380
Molybdène	Mo	mg/l	<0,0005	<0,0004	<0,0004	<0,03	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,04	0,03	0,06	0,05	0,03	0,02	0,04	0,03	0,04	0,02
Nickel	Ni	mg/l	0,0080	0,0070	0,0062	0,0072	0,0092	0,0092	0,0148	0,0161	0,0166	0,0145	0,0152
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00052
Antimoine	Sb	mg/l	0,0033	0,0039	0,0036	0,0037	0,0036	0,0024	0,0027	0,0030	0,0034	0,0031	0,0020
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00046	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00951	0,00685	0,00585	0,00627	0,00660	0,00529	0,00756	0,00662	0,00655	0,00648	0,00663
Titane	Ti	mg/l	0,0003	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001	<0,00012
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000006	<0,000005	<0,000005	<0,000006
Uranium	U	mg/l	0,000123	0,000037	0,000014	0,000013	0,000036	0,000015	0,000006	0,000015	0,000006	0,000014	0,000010
Vanadium	V	mg/l	0,00024	0,00028	0,00025	0,00022	0,00025	0,00019	0,00020	0,00018	0,00021	0,00019	0,00014
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0075					0,0067				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0017					0,0016				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	935	1006	992	995	996	1006	1007	934	934	998	1007
pH	pH	No unit	6,38	6,19	6,39	6,29	6,16	6,17	6,36	6,38	6,34	5,97	6,47
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2		2	
Conductivité	Conductivité	µS/cm	18	15	11	11	13	14	11	23	20	13	13
Acidité	Acidité	$mgCaCO_3/l$	<6,0	<4,0	<3,0	<2,0	<3,0	<5,0	<5,0	<8,0		<4,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	6	4	4	3	4	3	3	6		3	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,007	0,004	0,002	0,002	0,002	0,002	0,002	0,007		0,005	
Arsenic	As	mg/l	0,1060	0,1490	0,1010	0,1290	0,1580	0,1440	0,0922	0,1200		0,1270	
Baryum	Ba	mg/l	0,00020	0,00017	0,00014	0,00015	0,00016	0,00018	0,00011	0,00024		0,00014	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	2,64	1,95	1,50	1,55	1,85	1,71	1,33	2,59		1,66	
Cadmium	Cd	mg/l	<0,000003	<0,000007	<0,000011	<0,000003	<0,000003	<0,000005	<0,000003	<0,000004		<0,000012	
Cobalt	Co	mg/l	0,002370	0,002590	0,002010	0,002880	0,003320	0,003300	0,003010	0,003690		0,002530	
Chrome	Cr	mg/l	<0,00017	<0,00012	<0,00019	<0,00017	<0,00008	<0,00008	<0,00008	<0,0001		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,014	<0,009	<0,007	<0,008	<0,008	<0,009	<0,012	<0,022		0,011	
Potassium	K	mg/l	0,021	0,028	0,030	0,029	0,024	0,019	0,019	0,022		0,036	
Lithium	Li	mg/l	0,0014	0,0014	0,0010	0,0012	0,0014	0,0015	0,0010	0,0014		0,0012	
Magnésium	Mg	mg/l	0,318	0,340	0,245	0,274	0,314	0,299	0,220	0,330		0,289	
Manganese	Mn	mg/l	0,00461	0,00512	0,00381	0,00499	0,00556	0,00538	0,00472	0,00602		0,00496	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0297	
Sodium	Na	mg/l	0,05	0,03	0,04	0,03	0,05	0,02	0,01	0,04		0,08	
Nickel	Ni	mg/l	0,0184	0,0217	0,0178	0,0235	0,0275	0,0284	0,0254	0,0317		0,0259	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00025	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0018	0,0028	0,0020	0,0028	0,0035	0,0032	0,0021	0,0024		0,0028	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00008		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00958	0,00757	0,00510	0,00551	0,00651	0,00655	0,00508	0,00900		0,00574	
Titane	Ti	mg/l	<0,00017	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0003		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000006	<0,000005	<0,000006		<0,000005	
Uranium	U	mg/l	0,000006	0,000005	0,000006	0,000003	0,000002	0,000002	0,000004	0,000005		0,000002	
Vanadium	V	mg/l	0,00015	0,00020	0,00014	0,00016	0,00019	0,00016	0,00012	0,00011		0,00015	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0068					0,0074				0,0074	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0019					0,0018				0,0018	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	993	1011	1004	968	1004	995	1005	1004	1008	991	1004
pH	pH	No unit	6,37	6,43	6,19	6,09	6,37	6,48	6,07	6,33	6,47	6,60	6,17
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				2				2
Conductivité	Conductivité	µS/cm	14	16	17	14	16	18	15	17	15	20	14
Acidité	Acidité	$mgCaCO_3/l$			<5,0				<5,0				<4,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			4				4				3
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,005				0,002				0,002
Arsenic	As	mg/l			0,1090				0,0943				0,0698
Baryum	Ba	mg/l			0,00017				0,00017				0,00016
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,70				2,18				1,72
Cadmium	Cd	mg/l			<0,000017				<0,000003				<0,000005
Cobalt	Co	mg/l			0,003840				0,003730				0,002920
Chrome	Cr	mg/l			<0,00011				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,015				<0,013				<0,008
Potassium	K	mg/l			0,024				0,026				0,016
Lithium	Li	mg/l			0,0011				0,0012				0,0010
Magnésium	Mg	mg/l			0,272				0,299				0,236
Manganese	Mn	mg/l			0,00607				0,00629				0,00464
Molybdène	Mo	mg/l			<0,0006				<0,0004				<0,0004
Sodium	Na	mg/l			0,04				0,04				0,02
Nickel	Ni	mg/l			0,0348				0,0387				0,0336
Plomb	Pb	mg/l			<0,00063				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0027				0,0024				0,0019
Sélénium	Se	mg/l			0,00006				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00593				0,00642				0,00565
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000006				<0,000008				<0,000006
Uranium	U	mg/l			0,000004				0,000006				0,000003
Vanadium	V	mg/l			0,00013				0,00011				0,00009
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0074				0,0079				0,0066
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0017				0,0018				0,0018
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	995	1005	1008	1007	1005	1000	1006	966	939	980	1031
pH	pH	No unit	6,81	6,38	6,50	5,69	5,65	6,43	6,5	5,94	5,83	6,18	6,1
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				2			
Conductivité	Conductivité	µS/cm	18	14	14	13	14	14	12	17	22	16	15
Acidité	Acidité	$mgCaCO_3/l$				7				<9,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				3				5			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,004			
Arsenic	As	mg/l				0,0652				0,0334			
Baryum	Ba	mg/l				0,00012				0,00012			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,68				2,1			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,003200				0,00388			
Chrome	Cr	mg/l				<0,00008				<0,00022			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,012			
Potassium	K	mg/l				0,017				0,012			
Lithium	Li	mg/l				0,0011				0,0009			
Magnésium	Mg	mg/l				0,218				0,222			
Manganese	Mn	mg/l				0,00512				0,00638			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,05				0,02			
Nickel	Ni	mg/l				0,0441				0,0651			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0022				0,0012			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00555				0,00658			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000007			
Uranium	U	mg/l				0,000002				0,000002			
Vanadium	V	mg/l				0,00008				0,00004			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0058				0,006			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0012				0,0010			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1019	979
pH	pH	No unit	5,8	6,63
Alkalinité	Alkalinité	mg$CaCO_3$/l	2	
Conductivité	Conductivité	µS/cm	16	19
Acidité	Acidité	mg$CaCO_3$/l	5	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	3	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,001	
Arsenic	As	mg/l	0,0354	
Baryum	Ba	mg/l	0,00015	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	1,6	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,00567	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,01	
Potassium	K	mg/l	0,015	
Lithium	Li	mg/l	0,0011	
Magnésium	Mg	mg/l	0,265	
Manganese	Mn	mg/l	0,00763	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,02	
Nickel	Ni	mg/l	0,075	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0013	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00506	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000005	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00005	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0067	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0012	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-59

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1003	1030	1025	994	961	1012	1012	1003	1012	1007	970
pH	pH	No unit	6,1	6,54	5,83	6,4	6,07	5,92	6,11	6,21	6,4	6,48	5,83
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<2,0				<2,0
Conductivité	Conductivité	µS/cm	15	16	14	21	19	18	16	14	15	16	15
Acidité	Acidité	$mgCaCO_3/l$			<7,0				8				9
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			3				4				4
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,001				0,002				0,002
Arsenic	As	mg/l			0,0309				0,02				0,0181
Baryum	Ba	mg/l			0,00014				0,00016				0,00015
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,86				1,89				1,84
Cadmium	Cd	mg/l			<0,000003				0,000004				<0,000003
Cobalt	Co	mg/l			0,00525				0,00888				0,009340
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,009				<0,02				<0,026
Potassium	K	mg/l			0,015				0,018				0,016
Lithium	Li	mg/l			0,0011				0,0011				0,0009
Magnésium	Mg	mg/l			0,257				0,252				0,234
Manganese	Mn	mg/l			0,00827				0,0106				0,01000
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,02
Nickel	Ni	mg/l			0,0829				0,115				0,1130
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0014				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00006				0,00006				0,00008
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00588				0,00611				0,00541
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,00001				<0,000008				<0,000011
Uranium	U	mg/l			0,000002				0,000003				0,000002
Vanadium	V	mg/l			0,00005				0,00002				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0071				0,0065				0,0070
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0014				0,0013				0,0011
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	844	970	1011	1001	1001	1003	997	986	947	983	981
pH	pH	No unit	8,56	7,67	7,92	7,76	7,64	7,54	7,38	7,48	7,57	7,39	7,69
Alkalinité	Alkalinité	$mgCaCO_3/l$	16	14	21	13	14	12	11	12	11	12	10
Conductivité	Conductivité	µS/cm	53	65	60	57	37	37	30	33	29	32	31
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	3	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,06	<0,06	<0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<1,58	<2,03	<1,51	<1,3	<1,15	<0,84	<1,0	<0,76	<0,96	<0,73
Sulfate	SO_4^{2-}	mg/l	2	3	3	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	7	10	5	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,010	0,002	0,002	0,002	0,001	0,001	0,003	0,002	0,002	0,001	0,002
Arsenic	As	mg/l	0,1850	6,1500	8,4100	5,3700	4,8200	4,2700	3,1600	3,7300	2,5700	3,3400	2,5300
Baryum	Ba	mg/l	0,00071	0,00191	0,00227	0,00193	0,00189	0,00145	0,00093	0,00157	0,00146	0,00140	0,00097
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,011	0,015	0,019	0,013	0,013	0,009	0,007	0,007	0,005	0,006	0,004
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	5,58	4,80	5,00	4,58	4,38	4,50	3,76	4,48	3,99	4,48	4,34
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000020	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000072	0,000097	0,000225	0,000227	0,000270	0,000445	0,000234	0,000367	0,000238	0,000401	0,000297
Chrome	Cr	mg/l	0,00047	0,00009	<0,00008	0,00011	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0005	0,0002	<0,0002	<0,0002	0,0003	0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,012	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,017
Potassium	K	mg/l	0,39	0,51	0,43	0,260	0,207	0,176	0,122	0,136	0,101	0,104	0,095
Lithium	Li	mg/l	0,0019	0,0017	0,0023	0,0018	0,0014	0,0013	0,0017	0,0011	0,0009	0,0012	0,0010
Magnésium	Mg	mg/l	1,490	2,910	3,350	2,180	1,810	1,880	1,260	1,650	1,150	1,430	1,250
Manganese	Mn	mg/l	0,00205	0,00497	0,00629	0,00539	0,00445	0,00676	0,00397	0,00465	0,00410	0,00393	0,00369
Molybdène	Mo	mg/l	0,00148	0,00196	0,00167	0,00086	0,00065	0,00056	0,00066	0,00156	0,00209	0,00054	0,00020
Sodium	Na	mg/l	3,11	3,99	2,87	1,30	0,83	0,61	0,32	0,32	0,21	0,17	0,12
Nickel	Ni	mg/l	0,0032	0,0524	0,0833	0,0637	0,0498	0,0514	0,0276	0,0448	0,0179	0,0314	0,0239
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0590	3,1400	3,8600	3,5000	2,8900	2,9400	2,2400	2,7000	1,7500	2,4600	1,9500
Sélénium	Se	mg/l	0,00004	0,00034	0,00041	0,00018	0,00023	0,00021	0,00022	0,00022	0,00016	0,00026	0,00015
Etain	Sn	mg/l	0,00146	0,00029	0,00015	0,00009	0,00007	0,00006	0,00014	0,00006	<0,00006	<0,00006	0,00006
Strontium	Sr	mg/l	0,0069	0,0080	0,00906	0,0071	0,00647	0,0060	0,0049	0,00568	0,0044	0,00538	0,0047
Titane	Ti	mg/l	0,00005	0,00005	0,00005	0,00046	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000013	<0,000006	0,000006	<0,000005	<0,000005	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000796	0,000117	0,000437	0,000124	0,000134	0,000265	0,001320	0,000116	0,00288	0,000161	0,000117
Vanadium	V	mg/l	0,00042	0,00090	0,00092	0,00069	0,00064	0,00055	0,00046	0,00052	0,00043	0,00047	0,00037
Tungstène	W	mg/l	0,00077	0,00149	0,00146	0,00087	0,00067	0,00044	0,00038	0,00041	0,00030	0,00033	0,00029
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00005	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0114	0,0122	0,0121	0,0087	0,0070	0,0052	0,0049	0,0051	0,0045	0,0046	0,0041
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0003	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0073	0,0071	0,0068	0,0045	0,0035	0,0030	0,0022	0,0026	0,0019	0,0023	0,0019
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	998	1016	980	914	899	1011	943	937	901	954	963
pH	pH	No unit	7,40	7,40	7,42	7,39	7,38	7,67	7,35	7,74	7,55	7,91	8,03
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	12	9	8	12	11	8	11	10	8	8
Conductivité	Conductivité	µS/cm	31	30	30	24	31	31	25	28	27	25	26
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,89	<0,78	<0,54	<0,34	<0,65	<0,68	<0,37	<0,56	<0,45	<0,24	<0,32
Sulfate	SO_4^{2-}	mg/l	2	2	3	2	2	2	2	2	3	<2,0	3
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00002	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00010	<0,00005
Aluminum	Al	mg/l	0,006	0,001	0,002	0,001	0,002	0,001	0,002	0,003	0,003	0,001	0,001
Arsenic	As	mg/l	2,5300	2,6000	1,7400	1,1600	2,0700	2,1200	1,2500	1,7900	1,3700	1,1600	1,09
Baryum	Ba	mg/l	0,00098	0,00114	0,00075	0,00065	0,00099	0,00129	0,00077	0,00096	0,00080	0,00055	0,00085
Beryllium	Be	mg/l	0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,005	0,005	0,003	0,003	0,004	0,004	0,002	0,003	0,003	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,87	3,91	3,89	3,59	4,43	4,07	3,61	4,24	3,91	3,43	3,48
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000004	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000395	0,000680	0,000308	0,000254	0,000162	0,000429	0,000293	0,000300	0,000237	0,000359	0,000409
Chrome	Cr	mg/l	0,00012	0,00008	0,00011	<0,00012	<0,00013	0,00010	<0,00008	0,00014	<0,0001	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0003	0,0008	0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007	<0,007	<0,007	0,007
Potassium	K	mg/l	0,068	0,064	0,040	0,057	0,085	0,063	0,048	0,060	0,051	0,043	0,031
Lithium	Li	mg/l	0,0012	0,0010	0,0006	0,0005	0,0008	0,0008	0,0007	0,0006	0,0007	0,0007	0,0007
Magnésium	Mg	mg/l	1,300	1,460	0,875	0,834	1,23	1,160	0,861	1,140	1,180	0,901	0,958
Manganese	Mn	mg/l	0,00388	0,00453	0,00937	0,00380	0,00165	0,00351	0,00324	0,00272	0,00209	0,00285	0,00287
Molybdène	Mo	mg/l	0,00020	0,00029	0,00033	0,00020	0,00022	0,00011	0,00024	0,00016	0,00025	0,00057	0,00036
Sodium	Na	mg/l	0,08	0,07	0,04	0,07	0,06	0,06	0,01	0,05	0,04	0,01	0,04
Nickel	Ni	mg/l	0,0204	0,0319	0,0139	0,0084	0,0072	0,0190	0,0095	0,0117	0,0080	0,0092	0,011
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	2,0100	1,9700	1,4500	1,1400	1,9800	1,6700	1,0700	1,3100	1,1500	1,0300	0,847
Sélénium	Se	mg/l	0,00016	0,00014	0,00016	0,00022	0,00020	0,00015	0,00011	0,00014	0,00013	0,00015	0,00017
Etain	Sn	mg/l	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00015	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0043	0,0045	0,00395	0,0035	0,0050	0,0042	0,0034	0,0042	0,0038	0,0035	0,00312
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000012	<0,000018	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000005
Uranium	U	mg/l	0,000042	0,00235	0,000147	0,000085	0,000168	0,000637	0,00511	0,000103	0,000139	0,00628	0,000103
Vanadium	V	mg/l	0,00041	0,00038	0,00039	0,00027	0,00040	0,00036	0,00033	0,00037	0,00032	0,00030	0,00026
Tungstène	W	mg/l	0,00037	0,00024	0,00018	0,00012	0,00023	0,00017	0,00015	0,00016	0,00017	0,00014	0,00012
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00002	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0045	0,0044		0,0037		0,0030	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0024	0,0020		0,0014		0,0012	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	910	927	1005	924	970	963	935	947	916	950	973
pH	pH	No unit	7,43	7,24	7,38	7,07	7,3	7,18	7,29	7,43	7,26	7,04	7,22
Alkalinité	Alkalinité	$mgCaCO_3/l$	8	9	10	9	8	7	7	8	7	7	7
Conductivité	Conductivité	µS/cm	25	25	24	27	25	21	22	24	23	24	21
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,25	<0,31	<0,28	<0,2	<0,26	<0,2	<0,24	<0,17	<0,15	<0,13
Sulfate	SO_4^{2-}	mg/l	2	2	3	2	2	4	2	2	3	3	2
Chlore	Cl^-	mg/l				4					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,002	0,001	0,001	0,002	0,003	0,001	0,002	0,002	0,002	0,001	0,002
Arsenic	As	mg/l	1,0900	0,925	1,11	0,844	0,869	0,7450	0,849	0,805	0,735	0,7090	0,6580
Baryum	Ba	mg/l	0,00060	0,0005	0,00049	0,00052	0,00052	0,00042	0,00041	0,00044	0,00052	0,00034	0,00030
Beryllium	Be	mg/l	<0,000007	<0,000007	0,000026	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007
Bore	B	mg/l	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	3,62	3,13	3,23	3,34	3,2	2,97	3,26	2,98	3,63	2,92	2,86
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000294	0,000271	0,000676	0,000399	0,00038	0,000409	0,000375	0,000408	0,0004	0,000417	0,000624
Chrome	Cr	mg/l	<0,00009	<0,00009	<0,00008	<0,00021	<0,00008	<0,00008	<0,00014	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0005	0,0002	<0,0002	<0,0002	<0,0005	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,01	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,046	0,031	0,024	0,045	0,045	0,017	0,03	0,013	0,039	0,027	0,022
Lithium	Li	mg/l	0,0005	0,0005	0,0006	0,0006	0,0005	0,0004	0,0005	0,0004	0,0019	0,0005	0,0005
Magnésium	Mg	mg/l	0,943	0,805	0,934	0,872	0,792	0,775	0,846	0,797	0,985	0,799	0,739
Manganese	Mn	mg/l	0,00247	0,00227	0,00372	0,00296	0,00265	0,00247	0,00217	0,00251	0,00264	0,00255	0,00336
Molybdène	Mo	mg/l	0,00200	0,00202	0,00017	0,00087	0,00012	0,00028	0,0002	0,00009	0,00009	0,00051	0,00019
Sodium	Na	mg/l	0,04	0,02	0,02	0,09	0,09	0,02	0,04	0,01	0,03	0,01	0,04
Nickel	Ni	mg/l	0,0080	0,0065	0,0146	0,0083	0,008	0,0080	0,0076	0,0086	0,0075	0,0075	0,0104
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,8610	0,853	0,757	0,81	0,633	0,7510	0,627	0,711	0,631	0,6040	0,5370
Sélénium	Se	mg/l	0,00015	0,00013	0,00005	0,00012	0,00014	0,00009	0,00013	0,00012	0,0001	0,00012	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0032	0,00261	0,00295	0,00334	0,00264	0,0023	0,00254	0,00252	0,00239	0,0020	0,0019
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000005	<0,000005	<0,000005	<0,000005	<0,000005	0,000005	<0,000018	<0,000005	<0,000005	<0,000005	<0,000008
Uranium	U	mg/l	0,000168	0,000074	0,000138	0,000134	0,000075	0,002370	0,0043	0,000993	0,00117	0,00012	0,000074
Vanadium	V	mg/l	0,00027	0,00022	0,00025	0,00029	0,00022	0,00018	0,00022	0,00018	0,00018	0,00017	0,00014
Tungstène	W	mg/l	0,00162	0,00009	0,00011	0,00008	0,00009	0,00006	0,00007	0,00007	0,00008	0,00006	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,003					0,0028		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0011					0,0013		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	921	1000	953	886	948	926	966	880	962	988	900
pH	pH	No unit	7,04	7,17	7,17	7,35	8,29	7,12	7,76	7,39	7,44	7,55	7,71
Alkalinité	Alkalinité	mg$CaCO_3$/l	6	9	7	9	6	9	14	10	8	7	9
Conductivité	Conductivité	µS/cm	22	28	23	28	21	26	39	30	25	21	24
Acidité	Acidité	mg$CaCO_3$/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,15	<0,27	<0,14	<0,16	<0,18	<0,15	<0,21	<0,19	<0,14	<0,16	<0,2
Sulfate	SO_4^{2-}	mg/l	2	4	3	4	4	3	4	3	3	2	3
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,001	0,001	0,001	0,002	0,001	0,004	0,002	0,002	0,002	0,001
Arsenic	As	mg/l	0,5690	0,9410	0,6520	0,7280	0,5800	0,6540	0,7090	0,8030	0,6870	0,6750	0,7880
Baryum	Ba	mg/l	0,00029	0,00043	0,00033	0,00042	0,00046	0,00041	0,00052	0,00061	0,00031	0,00037	0,00044
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000011	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,43	3,52	2,97	3,50	2,83	3,11	5,79	4,34	3,18	3,04	3,03
Cadmium	Cd	mg/l	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000643	0,000971	0,000695	0,000520	0,000670	0,000602	0,000633	0,000413	0,000517	0,000547	0,000373
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00017	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,017	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,014	0,019	0,019	0,036	0,023	0,024	0,030	0,045	0,018	0,011	0,025
Lithium	Li	mg/l	0,0004	0,0005	0,0004	0,0005	0,0004	0,0004	0,0004	0,0005	0,0003	0,0003	0,0003
Magnésium	Mg	mg/l	0,667	0,969	0,717	0,958	0,733	0,844	0,908	1,050	0,598	0,622	0,732
Manganese	Mn	mg/l	0,00291	0,00353	0,00323	0,00269	0,00322	0,00275	0,00557	0,00369	0,00435	0,00429	0,00272
Molybdène	Mo	mg/l	0,00013	0,01130	0,00021	0,00027	0,00017	0,00052	0,00040	<0,0005	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,03	0,02	0,05	0,01	0,01	0,01	0,06	0,03	0,02	0,02
Nickel	Ni	mg/l	0,0104	0,0175	0,0111	0,0085	0,0101	0,0091	0,0089	0,0065	0,0082	0,0085	0,0069
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,5240	0,7030	0,4890	0,7060	0,5030	0,5600	0,5780	0,7570	0,4710	0,5110	0,6510
Sélénium	Se	mg/l	0,00006	0,00004	0,00008	0,00010	0,00004	0,00007	0,00012	0,00011	0,00005	0,00007	0,00009
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0016	0,0025	0,0020	0,0021	0,0024	0,0019	0,0029	0,00237	0,00144	0,00160	0,00180
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000088	0,001540	0,00122	0,000451	0,000092	0,00011	0,00020	0,000149	0,000870	0,003300	0,000091
Vanadium	V	mg/l	0,00013	0,00014	0,00015	0,00017	0,00012	0,00015	0,00021	0,00019	0,00015	0,00015	0,00013
Tungstène	W	mg/l	0,00006	0,00008	0,00007	0,00005	0,00005	0,00006	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0021					0,0038			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00004			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0008					0,0016			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

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Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	914	909	935	952	874	947	897	933	949	1003	921
pH	pH	No unit	7,23	7,32	7,37	7,24	7,48	7,40	7,67	7,16	7,44	7,18	7,44
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	7	8	7	6	6	9	6	8
Conductivité	Conductivité	µS/cm	25	22	24	18	24	18	26	21	24	17	20
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,14	<0,1	<0,12	<0,1	<0,13	<0,07	<0,12	<0,09	<0,15	<0,08	<0,11
Sulfate	SO_4^{2-}	mg/l	3	3	3	2	4	2	3	2	2	2	3
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,001	0,002	0,002	0,001	0,009	0,001	0,003	0,001	0,001	0,001	0,003
Arsenic	As	mg/l	0,6590	0,5620	0,5200	0,5120	0,7110	0,5020	0,5670	0,5340	0,6620	0,4690	0,5640
Baryum	Ba	mg/l	0,00034	0,00031	0,00024	0,00030	0,00033	0,00028	0,00039	0,00031	0,00031	0,00034	0,00048
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,89	3,03	2,49	2,50	3,01	2,12	3,26	2,74	3,48	2,27	3,07
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000403	0,000471	0,000445	0,000486	0,000338	0,000456	0,000428	0,000483	0,000500	0,000402	0,000390
Chrome	Cr	mg/l	<0,00008	<0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00009	<0,00008	<0,0001	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,022	0,029	0,014	0,021	0,035	0,018	0,021	0,029	0,012	0,023	0,025
Lithium	Li	mg/l	0,0002	0,0003	0,0003	0,0003	0,0004	0,0003	0,0003	0,0003	0,0002	0,0003	0,0003
Magnésium	Mg	mg/l	0,725	0,776	0,671	0,648	1,010	0,567	0,904	0,700	0,736	0,627	0,816
Manganese	Mn	mg/l	0,00287	0,00286	0,00246	0,00270	0,00174	0,00259	0,00231	0,00263	0,00255	0,00210	0,00225
Molybdène	Mo	mg/l	<0,0005	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,01	0,01	0,01	0,01	0,02	0,01	0,01	0,01	0,01	0,02	0,06
Nickel	Ni	mg/l	0,0070	0,0073	0,0067	0,0075	0,0057	0,0063	0,0068	0,0070	0,0073	0,0056	0,0059
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00017
Antimoine	Sb	mg/l	0,5880	0,5560	0,4510	0,4380	0,6070	0,3550	0,4620	0,3690	0,4070	0,3710	0,4440
Sélénium	Se	mg/l	0,00005	0,00004	0,00004	0,00010	0,00006	0,00006	0,00007	0,00006	0,00011	0,00004	0,00006
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00008	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00158	0,00165	0,00139	0,00127	0,00159	0,00110	0,00160	0,00142	0,00161	0,00106	0,00139
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005
Uranium	U	mg/l	0,000595	0,000115	0,000061	0,000044	0,000098	0,000040	0,000139	0,000037	0,000097	0,000040	0,000091
Vanadium	V	mg/l	0,00013	0,00015	0,00011	0,00012	0,00014	0,00011	0,00013	0,00011	0,00018	0,00012	0,00013
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0026					0,0027				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00003					<0,00004				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0012					0,0012				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	928	969	937	914	926	943	926	917	917	919	920
pH	pH	No unit	7,02	7,24	7,23	7,25	7,36	7,14	7,10	7,03	7,11	7,24	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	8	7	6	7	7		6	
Conductivité	Conductivité	µS/cm	25	19	19	20	20	18	20	21	21	17	19
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,14	<0,09	<0,08	<0,16	<0,11	<0,09	<0,12	<0,06		<0,1	
Sulfate	SO_4^{2-}	mg/l	3	4	3	3	3	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,002	0,001	0,001	0,002	0,001	0,001	0,001	0,001		0,001	
Arsenic	As	mg/l	0,5410	0,4190	0,4960	0,5090	0,5300	0,4770	0,4660	0,5010		0,4300	
Baryum	Ba	mg/l	0,00040	0,00039	0,00037	0,00037	0,00038	0,00035	0,00024	0,00037		0,00024	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007		<0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	3,11	2,54	2,58	2,99	2,82	2,66	2,42	2,61		2,40	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000386	0,000556	0,000369	0,000454	0,000445	0,000511	0,000445	0,000447		0,000374	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00013	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,015	
Potassium	K	mg/l	0,027	0,019	0,029	0,026	0,019	0,018	0,020	0,019		0,028	
Lithium	Li	mg/l	0,0004	0,0002	0,0002	0,0002	0,0003	0,0005	0,0003	0,0003		0,0002	
Magnésium	Mg	mg/l	0,863	0,707	0,740	0,870	0,782	0,749	0,734	0,756		0,705	
Manganese	Mn	mg/l	0,00208	0,00288	0,00207	0,00271	0,00241	0,00256	0,00244	0,00227		0,00314	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0006	
Sodium	Na	mg/l	0,02	0,01	0,03	0,01	0,01	0,04	0,01	0,01		0,03	
Nickel	Ni	mg/l	0,0058	0,0076	0,0057	0,0064	0,0063	0,0070	0,0061	0,0060		0,0050	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,4860	0,3640	0,3680	0,3740	0,3520	0,3210	0,3320	0,3860		0,3490	
Sélénium	Se	mg/l	0,00004	0,00004	0,00005	0,00005	0,00004	0,00005	0,00005	0,00006		0,00006	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00141	0,00126	0,00109	0,00130	0,00134	0,00161	0,00119	0,00127		0,00109	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005		<0,000005	
Uranium	U	mg/l	0,000053	0,000031	0,000041	0,000032	0,000032	0,000035	0,000030	0,000036		0,000028	
Vanadium	V	mg/l	0,00015	0,00013	0,00013	0,00012	0,00013	0,00010	0,00011	0,00009		0,00010	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0029					0,0022				0,0025	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00002					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0016					0,0010				0,0011	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	927	919	936	899	928	907	924	943	945	924	934
pH	pH	No unit	7,25	7,13	7,10	6,81	7,17	7,20	7,07	7,15	7,36	7,15	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				5				6
Conductivité	Conductivité	µS/cm	20	22	14	16	19	20	16	19	17	18	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,06				<0,06				<0,09
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,002				0,001				0,001
Arsenic	As	mg/l			0,3890				0,3530				0,3560
Baryum	Ba	mg/l			0,00025				0,00021				0,00074
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,28				2,32				2,30
Cadmium	Cd	mg/l			<0,000006				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000388				0,000404				0,000420
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,019				0,021				0,019
Lithium	Li	mg/l			0,0002				0,0002				0,0002
Magnésium	Mg	mg/l			0,635				0,685				0,662
Manganese	Mn	mg/l			0,00228				0,00205				0,00220
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,02				0,02				0,03
Nickel	Ni	mg/l			0,0053				0,0050				0,0047
Plomb	Pb	mg/l			<0,00018				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,2770				0,2540				0,2140
Sélénium	Se	mg/l			0,00004				0,00006				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00101				0,00095				0,00211
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000046				0,000081				0,000032
Vanadium	V	mg/l			0,00009				0,00007				0,00008
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0023				0,0021				0,0020
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0011				0,0010				0,0011
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1009	941	931	941	927	925	937	940	910	971	987
pH	pH	No unit	7,16	7,10	7,14	7,09	7,33	7,15	7,15	6,79	6,81	7,05	6,8
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	19	16	16	16	28	19	18	16	18	21	19
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,07				<0,04			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,001				0,001			
Arsenic	As	mg/l				0,3330				0,327			
Baryum	Ba	mg/l				0,00021				0,00020			
Beryllium	Be	mg/l				<0,000007				<0,000007			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				1,98				2,03			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000405				0,000369			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,009				0,013			
Lithium	Li	mg/l				0,0002				0,0002			
Magnésium	Mg	mg/l				0,612				0,563			
Manganese	Mn	mg/l				0,00224				0,00176			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,02				0,01			
Nickel	Ni	mg/l				0,0047				0,0046			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,2200				0,233			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00090				0,00086			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000005			
Uranium	U	mg/l				0,000017				0,00002			
Vanadium	V	mg/l				0,00007				0,00008			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0012				0,0019			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0005				0,0008			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	994	979
pH	pH	No unit	6,61	7,06
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	
Conductivité	Conductivité	µS/cm	13	19
Acidité	Acidité	$mgCaCO_3/l$	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,06	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,001	
Arsenic	As	mg/l	0,403	
Baryum	Ba	mg/l	0,00019	
Beryllium	Be	mg/l	<0,000007	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	2,07	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000451	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,012	
Lithium	Li	mg/l	0,0002	
Magnésium	Mg	mg/l	0,559	
Manganese	Mn	mg/l	0,00208	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,01	
Nickel	Ni	mg/l	0,0049	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,252	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00081	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000007	
Uranium	U	mg/l	0,000002	
Vanadium	V	mg/l	0,00008	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0017	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00004	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0007	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-62

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	972	1032	968	973	968	948	997	999	925	927	917
pH	pH	No unit	6,92	6,98	7,14	6,9	6,55	6,66	7,04	6,63	6,8	6,98	7,15
Alkalinité	Alkalinité	$mgCaCO_3/l$			7				<5,0				<6,0
Conductivité	Conductivité	µS/cm	21	22	19	20	25	20	18	20	18	18	16
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,09				<0,06				<0,06
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,001				0,001				0,001
Arsenic	As	mg/l			0,5660				0,416				0,3600
Baryum	Ba	mg/l			0,00016				0,00023				0,00018
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			2,46				2,31				2,17
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000503				0,000499				0,000370
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,012				0,019				0,022
Lithium	Li	mg/l			0,0002				0,0002				0,0002
Magnésium	Mg	mg/l			0,684				0,723				0,694
Manganese	Mn	mg/l			0,00214				0,002				0,00141
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,01				0,01				0,01
Nickel	Ni	mg/l			0,0057				0,0057				0,0042
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,225				<0,241				<0,219
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00008				<0,00009				<0,00007
Strontium	Sr	mg/l			0,00098				0,00096				0,00083
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,000024				0,000026				0,000018
Vanadium	V	mg/l			0,0001				0,00008				0,00008
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,002				0,0017				0,0022
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00002				0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0008				0,0008				0,0009
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	820	947	1001	997	1001	1000	994	967	1000	998	1004
pH	pH	No unit	8,31	7,40	7,48	7,40	7,31	7,04	7,19	7,22	7,26	7,19	7,16
Alkalinité	Alkalinité	$mgCaCO_3/l$	13	12	12	13	10	7	7	8	8	8	7
Conductivité	Conductivité	µS/cm	53	47	28	34	19	16	18	16	17	17	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,27	<0,24	<0,16	<0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,14	<0,13	<0,05	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	10	6	2	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,193	0,051	0,052	0,035	0,034	0,016	0,029	0,028	0,034	0,036	0,030
Arsenic	As	mg/l	0,3400	0,5260	0,3060	0,1350	0,1130	0,0399	0,0515	0,0454	0,0432	0,0354	0,0327
Baryum	Ba	mg/l	0,00024	0,00014	0,00018	0,00014	0,00033	0,00012	0,00011	0,00011	0,00015	0,00015	0,00017
Beryllium	Be	mg/l	<0,000026	<0,00002	0,000029	<0,000013	<0,000018	<0,000007	<0,000007	<0,000013	<0,000012	<0,000013	<0,000014
Bore	B	mg/l	0,045	0,076	0,037	0,017	0,013	0,007	0,005	0,004	0,004	0,003	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,08	2,08	1,96	2,12	2,53	2,10	2,30	2,27	2,61	2,60	2,69
Cadmium	Cd	mg/l	<0,000003	<0,000004	<0,000003	0,000017	0,000003	<0,000004	<0,000003	<0,000004	<0,000003	<0,000003	<0,000005
Cobalt	Co	mg/l	0,000104	0,000084	0,000057	0,000055	0,000049	0,000033	0,000028	0,000032	0,000023	0,000031	0,000019
Chrome	Cr	mg/l	0,00011	0,00021	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0028	0,0009	<0,0003	<0,0003	0,0003	0,0005	<0,0002	<0,0002	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,009
Potassium	K	mg/l	4,47	3,22	2,60	1,830	1,950	1,330	1,210	1,040	1,080	0,866	0,848
Lithium	Li	mg/l	0,1530	0,2060	0,0942	0,0496	0,0368	0,0208	0,0173	0,0131	0,0136	0,0105	0,0095
Magnésium	Mg	mg/l	0,151	0,219	0,207	0,179	0,209	0,187	0,182	0,173	0,184	0,168	0,177
Manganese	Mn	mg/l	0,00219	0,00503	0,00432	0,00416	0,00493	0,00535	0,00500	0,00539	0,00622	0,00644	0,00723
Molybdène	Mo	mg/l	0,00109	0,00127	0,00065	0,00087	0,00045	0,00025	0,00017	0,00010	0,00010	0,00016	0,00010
Sodium	Na	mg/l	5,69	5,64	2,59	1,20	0,93	0,55	0,38	0,31	0,30	0,23	0,18
Nickel	Ni	mg/l	0,0005	0,0007	0,0002	0,0003	0,0003	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0082	0,0546	0,0315	0,0198	0,0126	0,0099	0,0077	0,0072	0,0062	0,0056	0,0057
Sélénium	Se	mg/l	0,00004	0,00004	0,00017	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	0,00208	0,00073	0,00035	0,00017	0,00008	0,00010	0,00008	0,00007	<0,00006	<0,00006	0,00009
Strontium	Sr	mg/l	0,0046	0,0064	0,00597	0,0053	0,00638	0,0051	0,0055	0,00517	0,0056	0,00537	0,0054
Titane	Ti	mg/l	0,00006	0,00005	0,00005	0,00039	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000328	<0,000263	0,000227	<0,000169	<0,000145	0,000123	<0,000113	<0,0001	<0,000099	<0,00009	<0,000093
Uranium	U	mg/l	0,001750	0,029200	0,021712	0,013500	0,010200	0,006560	0,006990	0,004969	0,00449	0,004200	0,004282
Vanadium	V	mg/l	0,00021	0,00028	0,00019	0,00010	0,00009	0,00008	0,00005	0,00005	0,00006	0,00012	0,00006
Tungstène	W	mg/l	0,00682	0,01020	0,00428	0,00132	0,00087	0,00018	0,00036	0,00034	0,00026	0,00036	0,00021
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,002	<0,003	<0,003	<0,003	<0,002	<0,003	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0438	0,0362	0,0374	0,0306	0,0312	0,0224	0,0279	0,0216	0,0248	0,0208	0,0194
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0006	<0,0003	<0,0004	<0,0004	<0,0003	0,0003	<0,0003	0,0004	<0,0003	<0,0003	<0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,2590	0,1440	0,1170	0,0878	0,0895	0,0658	0,0582	0,0559	0,0558	0,0503	0,0474
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1001	1006	1001	936	902	964	981	988	917	953	965
pH	pH	No unit	7,17	7,19	7,10	7,20	6,63	7,23	7,14	7,22	6,93	6,81	6,84
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	6	3	4	6	6	6	4	4	5
Conductivité	Conductivité	µS/cm	15	16	14	6	6	15	13	14	13	10	11
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00017	<0,00005
Aluminum	Al	mg/l	0,025	0,032	0,032	0,036	0,085	0,034	0,031	0,034	0,042	0,030	0,027
Arsenic	As	mg/l	0,0261	0,0260	0,0212	0,0141	0,0152	0,0176	0,0183	0,0191	0,0136	0,0134	0,0113
Baryum	Ba	mg/l	0,00009	0,00011	0,00011	0,00013	0,00008	0,00012	0,00012	0,00019	0,00018	0,00010	0,00014
Beryllium	Be	mg/l	0,000025	<0,000014	<0,000016	<0,000022	<0,000114	<0,000024	<0,000007	<0,00001	<0,000011	<0,000015	<0,000015
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	2,22	2,43	2,09	1,13	1,00	1,70	2,22	2,55	1,45	1,67	1,79
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000003	<0,000003	0,000005	<0,000003
Cobalt	Co	mg/l	0,000017	0,000022	0,000021	0,000039	0,000044	0,000015	0,000025	0,000013	0,000019	0,000020	0,000015
Chrome	Cr	mg/l	0,00008	0,00008	0,00008	<0,00008	<0,00016	0,00012	<0,00008	0,00010	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0002	0,0002	0,0002	0,0002	<0,0002	<0,0002	0,0003	<0,0002	<0,0002
Fer	Fe	mg/l	0,007	0,007	<0,007	<0,007	0,050	<0,007	<0,007	0,007	<0,007	<0,064	0,007
Potassium	K	mg/l	0,708	0,657	0,495	0,433	0,540	0,451	0,454	0,462	0,386	0,371	0,322
Lithium	Li	mg/l	0,0090	0,0068	0,0051	0,0036	0,0040	0,0045	0,0049	0,0044	0,0035	0,0039	0,004
Magnésium	Mg	mg/l	0,149	0,152	0,109	0,074	0,08	0,103	0,127	0,129	0,092	0,098	0,095
Manganese	Mn	mg/l	0,00477	0,00641	0,00571	0,00317	0,00266	0,00363	0,00480	0,00571	0,00323	0,00432	0,00426
Molybdène	Mo	mg/l	0,00006	0,00011	0,00012	0,00033	0,00004	0,00006	0,00009	0,00080	0,00014	0,00270	0,00018
Sodium	Na	mg/l	0,12	0,13	0,10	0,11	0,10	0,09	0,08	0,12	0,08	0,06	0,08
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0001	0,0001	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0045	0,0042	0,0037	0,0023	0,0019	0,0037	0,0034	0,0033	0,0034	0,0026	0,0022
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00008	<0,00009	<0,00006	<0,00006	<0,00007	<0,00011	<0,00012	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0043	0,0044	0,00373	0,0020	0,0021	0,0032	0,0039	0,0043	0,0029	0,0035	0,00299
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000103	<0,00008	<0,000066	<0,000061	<0,000089	<0,000053	<0,000057	<0,000054	<0,000056	0,000045	<0,000041
Uranium	U	mg/l	0,001260	0,00309	0,002470	0,001330	0,001330	0,002240	0,00286	0,002630	0,001840	0,00160	0,00164
Vanadium	V	mg/l	0,00005	0,00004	0,00003	0,00003	0,00007	0,00005	0,00004	0,00005	0,00003	0,00003	0,00002
Tungstène	W	mg/l	0,00022	0,00018	0,00012	0,00007	0,00009	0,00008	0,00012	0,00009	0,00008	0,00009	0,00007
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,003	<0,003	<0,005	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0142	0,0135		0,0141		0,0108	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0002	<0,0002		<0,0002		<0,0002	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0381	0,0307		0,0287		0,0240	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0003	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	951	979	1010	980	1001	994	973	964	993	996	1028
pH	pH	No unit	6,98	6,82	7,15	7,03	7,06	6,61	6,83	6,81	6,88	6,65	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	4	6	5	7	3	3	2	5	4	6
Conductivité	Conductivité	µS/cm	8	9	13	10	14	8	5	5	9	9	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2.0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				19					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,027	0,026	0,029	0,025	0,023	0,025	0,029	0,024	0,023	0,026
Arsenic	As	mg/l	0,0096	0,0091	0,0104	0,01	0,0097	0,0077	0,0064	0,0064	0,0075	0,0074	0,0081
Baryum	Ba	mg/l	0,00008	0,00009	0,00013	0,0004	0,00025	0,00008	0,00008	0,0001	0,00014	0,00008	0,00008
Beryllium	Be	mg/l	<0,000011	<0,000008	0,000007	<0,000009	<0,000015	<0,000008	<0,000007	<0,000011	0,000013	<0,000011	<0,000007
Bore	B	mg/l	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,32	1,4	2,05	1,93	1,97	1,37	1	0,88	1,91	1,28	1,99
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000026	0,000016	0,000006	0,000016	0,000018	0,000011	0,000004	0,000011	0,00003	0,000007	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00024	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0004	<0,0006	0,0014	<0,0022	<0,0002	<0,0002	<0,0002	0,0004	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,06	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,312	0,284	0,305	0,302	0,288	0,226	0,193	0,185	0,259	0,187	0,203
Lithium	Li	mg/l	0,0041	0,003	0,0032	0,0028	0,0023	0,0020	0,002	0,0017	0,0029	0,0022	0,0021
Magnésium	Mg	mg/l	0,081	0,076	0,097	0,094	0,081	0,067	0,048	0,047	0,084	0,056	0,071
Manganese	Mn	mg/l	0,00326	0,00336	0,0052	0,00446	0,00509	0,00340	0,00269	0,00299	0,00469	0,00310	0,00595
Molybdène	Mo	mg/l	0,00026	0,00033	0,00018	0,00018	0,00004	0,00050	0,00008	0,00004	0,0001	0,00009	0,00006
Sodium	Na	mg/l	0,06	0,06	0,19	0,09	0,18	0,06	0,06	0,03	0,05	0,04	0,06
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,0001	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	0,0021	0,002	0,0024	0,0017	0,0020	0,0012	0,0018	0,0019	0,0017	0,0016
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00014	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0025	0,00253	0,0034	0,00334	0,00329	0,0022	0,00151	0,00171	0,00284	0,0020	0,0031
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000043	<0,000041	<0,000036	<0,000045	<0,000036	0,000032	<0,000026	<0,00004	<0,000045	<0,000028	<0,000035
Uranium	U	mg/l	0,005140	0,00127	0,00132	0,00275	0,00108	0,001250	0,000642	0,000729	0,00395	0,00096	0,001170
Vanadium	V	mg/l	0,00002	0,00003	0,00002	0,0001	0,00001	0,00002	0,00003	0,00001	0,00002	0,00002	0,00003
Tungstène	W	mg/l	0,00008	0,00005	0,00026	0,00005	0,00006	0,00004	0,00003	0,00004	0,00005	0,00005	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,012	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0104					0,0079		
Dysprosium (total)	Dy	mg/l				0,0001					<0,0001		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,00001					<0,00001		
Germanium (total)	Ge	mg/l				0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0202					0,0173		
Rhenium (total)	Re	mg/l				0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				0,00001					<0,00001		
Scandium (total)	Sc	mg/l				0,0001					<0,0001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	971	992	1003	966	993	995	998	914	972	1000	929
pH	pH	No unit	6,90	6,99	7,11	7,12	7,11	6,91	7,00	6,98	7,10	7,09	7,00
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	5	6	4	5	5	3	6	4	2
Conductivité	Conductivité	µS/cm	13	12	12	12	10	11	11	6	9	6	4
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,04	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					1			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,023	0,024	0,027	0,028	0,029	0,029	0,079	0,131	0,033	0,036	0,041
Arsenic	As	mg/l	0,0072	0,0072	0,0069	0,0061	0,0058	0,0079	0,0067	0,0042	0,0054	0,0050	0,0052
Baryum	Ba	mg/l	0,00008	0,00008	0,00009	0,00008	0,00018	0,00017	0,00010	0,00016	0,00008	0,00009	0,00008
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000011	<0,000009	<0,000026	<0,000365	<0,00001	<0,000012	<0,000012
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00029	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,91	1,92	1,98	1,95	1,85	1,85	1,93	2,44	1,60	1,20	0,80
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000007	0,000003	<0,000005	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000007	0,000019	0,000012	0,000005	0,000013	0,000012	0,000018	0,000013	0,000020	0,000013	0,000013
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	0,0002	<0,0002	<0,0002	0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,177	0,179	0,194	0,232	0,219	0,193	0,277	0,093	0,172	0,158	0,142
Lithium	Li	mg/l	0,0020	0,0018	0,0019	0,0021	0,0020	0,0017	0,0022	0,0018	0,0017	0,0013	0,0012
Magnésium	Mg	mg/l	0,063	0,059	0,060	0,061	0,060	0,057	0,057	0,032	0,041	0,033	0,029
Manganese	Mn	mg/l	0,00491	0,00455	0,00533	0,00456	0,00631	0,00520	0,00677	0,00326	0,00493	0,00414	0,00288
Molybdène	Mo	mg/l	0,00019	0,00046	0,00022	0,00019	0,00012	0,00806	0,00040	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,04	0,04	0,12	0,03	0,04	0,02	0,18	0,06	0,04	0,04
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0001	0,0003	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0016	0,0015	0,0013	0,0013	0,0015	0,0019	0,0014	0,0019	0,0014	0,0013	0,0012
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00006	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00007	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0028	0,0028	0,0029	0,0025	0,0024	0,0026	0,0026	0,00404	0,00199	0,00164	0,00129
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00010	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000035	<0,000028	<0,000034	<0,000016	<0,00003	<0,00003	<0,000077	<0,000011	<0,000029	<0,00004	<0,000047
Uranium	U	mg/l	0,002580	0,001050	0,00086	0,001290	0,000678	0,00070	0,00066	0,003130	0,004360	0,000467	0,000959
Vanadium	V	mg/l	0,00002	0,00003	0,00004	0,00001	0,00001	0,00002	0,00003	0,00006	0,00001	0,00001	0,00001
Tungstène	W	mg/l	0,00005	0,00005	0,00006	0,00005	0,00004	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00008			
Césium (total)	Cs	mg/l			0,0075					0,0023			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,0002			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00018			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00002			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0157					0,0047			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	971	1006	1003	982	1003	1012	1004	993	1001	963	1008
pH	pH	No unit	6,91	7,14	7,12	7,06	7,16	7,14	7,15	7,31	7,14	7,13	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	5	5	5	4	4	4	4	4	4
Conductivité	Conductivité	µS/cm	5	10	10	9	9	9	11	9	9	8	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,030	0,035	0,019	0,022	0,020	0,024	0,028	0,026	0,023	0,024	0,026
Arsenic	As	mg/l	0,0043	0,0054	0,0051	0,0058	0,0048	0,0053	0,0051	0,0058	0,0048	0,0047	0,0047
Baryum	Ba	mg/l	0,00031	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00021	0,00008	0,00020	0,00009
Beryllium	Be	mg/l	<0,000015	<0,000009	<0,000007	<0,000007	<0,000012	<0,000007	<0,000012	<0,000011	<0,00001	<0,000007	<0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,00	2,09	1,70	1,75	1,64	1,70	1,89	1,74	1,56	1,60	1,61
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000008	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000008	0,000009	0,000015	0,000008	0,000009	0,000004	0,000007	0,000009	0,000009	0,000012	0,000009
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,142	0,179	0,132	0,149	0,135	0,138	0,148	0,167	0,120	0,142	0,138
Lithium	Li	mg/l	0,0013	0,0013	0,0013	0,0012	0,0012	0,0012	0,0015	0,0013	0,0010	0,0013	0,0011
Magnésium	Mg	mg/l	0,036	0,055	0,044	0,040	0,037	0,040	0,041	0,041	0,034	0,036	0,035
Manganese	Mn	mg/l	0,00321	0,00607	0,00481	0,00450	0,00466	0,00491	0,00502	0,00544	0,00464	0,00492	0,00479
Molybdène	Mo	mg/l	<0,0004	<0,0006	<0,0035	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0005	<0,0004	<0,0004
Sodium	Na	mg/l	0,03	0,07	0,03	0,03	0,04	0,04	0,02	0,05	0,03	0,05	0,03
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0002	0,0003	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00069	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00014
Antimoine	Sb	mg/l	0,0011	0,0014	0,0012	0,0012	0,0010	0,0011	0,0009	0,0014	0,0011	0,0011	0,0011
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00032	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00170	0,00277	0,00221	0,00208	0,00202	0,00207	0,00230	0,00217	0,00175	0,00182	0,00186
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000032	<0,000031	<0,000025	<0,000024	<0,000027	<0,000026	<0,000032	<0,000029	<0,000024	<0,000023	<0,000026
Uranium	U	mg/l	0,000562	0,000717	0,000562	0,000528	0,000481	0,000464	0,000436	0,000440	0,000402	0,000405	0,000366
Vanadium	V	mg/l	0,00001	0,00003	0,00001	0,00001	0,00001	0,00001	0,00003	0,00002	0,00002	0,00003	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,005	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0073					0,0072				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0146					0,0135				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1007	994	1010	1015	1003	1009	1014	990	942	1014	1002
pH	pH	No unit	7,24	7,11	6,95	6,99	7,05	6,90	6,76	6,65	6,62	6,94	6,87
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	4	3	4	4	3		5	
Conductivité	Conductivité	µS/cm	8	8	7	7	7	8	8	9	5	7	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,025	0,024	0,018	0,026	0,027	0,024	0,023	0,023		0,021	
Arsenic	As	mg/l	0,0042	0,0040	0,0041	0,0041	0,0043	0,0040	0,0042	0,0035		0,0041	
Baryum	Ba	mg/l	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008	0,00008		0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000012	<0,000007	<0,000007	<0,000007	<0,000011		<0,000009	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	1,61	1,55	1,46	1,60	1,63	1,54	1,32	1,33		1,52	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003		<0,000011	
Cobalt	Co	mg/l	0,000012	0,000007	0,000010	0,000056	0,000010	0,000007	0,000006	0,000011		0,000011	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00011	<0,00013	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,007	
Potassium	K	mg/l	0,136	0,136	0,123	0,146	0,144	0,134	0,127	0,123		0,139	
Lithium	Li	mg/l	0,0012	0,0010	0,0010	0,0011	0,0011	0,0012	0,0011	0,0011		0,0010	
Magnésium	Mg	mg/l	0,033	0,034	0,032	0,033	0,033	0,037	0,029	0,027		0,034	
Manganese	Mn	mg/l	0,00497	0,00496	0,00463	0,00483	0,00514	0,00565	0,00521	0,00565		0,00670	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0008	<0,0004	<0,0004	<0,0004	<0,0004		<0,0253	
Sodium	Na	mg/l	0,04	0,03	0,05	0,03	0,03	0,04	0,02	0,03		0,07	
Nickel	Ni	mg/l	0,0001	0,0005	0,0002	0,0002	0,0003	0,0001	0,0001	0,0002		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0010	0,0009	0,0011	0,0010	0,0010	0,0009	0,0010	0,0009		0,0011	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00184	0,00181	0,00145	0,00174	0,00175	0,00186	0,00154	0,00148		0,00171	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000028	<0,000026	<0,000021	<0,000022	<0,000028	<0,000029	<0,000026	<0,000028		<0,000028	
Uranium	U	mg/l	0,000388	0,000346	0,000290	0,000292	0,000292	0,000315	0,000288	0,000285		0,000319	
Vanadium	V	mg/l	0,00003	0,00005	0,00005	0,00003	0,00002	0,00001	0,00001	0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0059					0,0059				0,0065	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00003	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00003	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0125					0,0123				0,0127	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1012	1002	1008	1009	1010	1007	1002	1005	1011	1001	1003
pH	pH	No unit	6,94	6,98	6,71	6,64	6,92	6,96	6,79	6,91	6,97	7,09	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$			3				2				2
Conductivité	Conductivité	µS/cm	9	7	6	6	8	8	7	11	5	7	5
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,021				0,016				0,018
Arsenic	As	mg/l			0,0038				0,0033				0,0050
Baryum	Ba	mg/l			0,00008				0,00008				0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				<0,000009
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			1,24				1,33				1,12
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000008				0,000004				0,000005
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,117				0,124				0,121
Lithium	Li	mg/l			0,0008				0,0008				0,0008
Magnésium	Mg	mg/l			0,026				0,025				0,024
Manganese	Mn	mg/l			0,00560				0,00588				0,00597
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,04				0,01
Nickel	Ni	mg/l			0,0001				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00016
Antimoine	Sb	mg/l			0,0012				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00009				<0,00009
Strontium	Sr	mg/l			0,00134				0,00135				0,00112
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000029				<0,000028				<0,00003
Uranium	U	mg/l			0,000246				0,000162				0,000143
Vanadium	V	mg/l			0,00002				0,00002				0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0057				0,0057				0,0059
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0118				0,0118				0,0148
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1002	999	1014	1013	1005	1022	1002	1003	992	1013	1049
pH	pH	No unit	6,82	6,83	6,92	6,45	6,95	7	7,01	6,93	7,16	7,29	6,91
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				3			
Conductivité	Conductivité	µS/cm	6	6	6	4	6	10	6	4	6	6	5
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,014				0,014			
Arsenic	As	mg/l				0,0030				0,003			
Baryum	Ba	mg/l				0,00008				0,00008			
Beryllium	Be	mg/l				<0,000007				<0,000011			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				0,98				0,81			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000010				0,000004			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,113				0,101			
Lithium	Li	mg/l				0,0009				0,0008			
Magnésium	Mg	mg/l				0,022				0,019			
Manganese	Mn	mg/l				0,00641				0,00604			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,04				0,03			
Nickel	Ni	mg/l				0,0002				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00111				0,00090			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000024				0,000032			
Uranium	U	mg/l				0,000107				0,000066			
Vanadium	V	mg/l				0,00002				0,00001			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0051				0,0055			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0107				0,0113			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1022	1006
pH	pH	No unit	6,76	6,88
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	
Conductivité	Conductivité	µS/cm	6	5
Acidité	Acidité	$mgCaCO_3/l$	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,021	
Arsenic	As	mg/l	0,0033	
Baryum	Ba	mg/l	0,00008	
Beryllium	Be	mg/l	<0,000009	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	0,79	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000004	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,115	
Lithium	Li	mg/l	0,0008	
Magnésium	Mg	mg/l	0,019	
Manganese	Mn	mg/l	0,00623	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,02	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00083	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,00003	
Uranium	U	mg/l	0,000048	
Vanadium	V	mg/l	0,00002	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0059	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0116	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-64

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1005	1026	1019	1001	963	1013	1002	1010	1009	1022	1013
pH	pH	No unit	6,55	6,94	6,62	6,98	6,53	6,93	6,77	6,8	6,58	7,01	6,69
Alkalinité	Alkalinité	$mgCaCO_3/l$			2				<3,0				<3,0
Conductivité	Conductivité	µS/cm	6	9	6	5	3	6	3	4	4	5	3
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,017				0,012				0,010
Arsenic	As	mg/l			0,0034				0,0027				0,0025
Baryum	Ba	mg/l			0,00026				0,00008				0,00008
Beryllium	Be	mg/l			<0,000014				<0,000011				<0,00001
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			0,74				0,62				0,67
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000006				0,000019				0,000004
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,120				0,098				0,114
Lithium	Li	mg/l			0,0008				0,0007				0,0008
Magnésium	Mg	mg/l			0,023				0,017				0,020
Manganese	Mn	mg/l			0,00684				0,00598				0,00547
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,03				0,03				0,03
Nickel	Ni	mg/l			0,0001				0,0003				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00213				0,00072				0,00074
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000039				<0,00003				<0,000034
Uranium	U	mg/l			0,000082				0,00008				0,000047
Vanadium	V	mg/l			0,00002				0,00001				0,00002
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0055				0,0047				0,0055
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0127				0,0103				0,0110
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	847	988	998	996	996	1003	994	984	990	983	1014
pH	pH	No unit	9,09	8,17	8,22	7,83	7,66	7,55	7,41	7,83	7,54	7,57	7,77
Alkalinité	Alkalinité	$mgCaCO_3/l$	29	29	20	22	13	12	10	11	11	13	10
Conductivité	Conductivité	µS/cm	114	58	36	42	27	27	23	24	24	26	26
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l	<0,33	<0,19	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,21	<0,1	<0,08	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	7	3	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l	22	6	1	1	1	1	<1,0	<1,0	1	1	1
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,257	0,176	0,156	0,132	0,125	0,131	0,128	0,135	0,146	0,184	0,160
Arsenic	As	mg/l	0,2100	0,2360	0,1360	0,0813	0,0588	0,0425	0,0340	0,0280	0,0257	0,0217	0,0212
Baryum	Ba	mg/l	0,00052	0,00034	0,00033	0,00025	0,00028	0,00022	0,00040	0,00023	0,00023	0,00022	0,00019
Beryllium	Be	mg/l	<0,000437	<0,000366	0,000332	<0,000217	<0,00025	<0,000194	<0,000133	<0,000204	<0,000179	<0,000189	<0,000129
Bore	B	mg/l	0,083	0,103	0,027	0,015	0,012	0,007	0,005	0,005	0,005	0,004	0,003
Bismuth	Bi	mg/l	<0,001	<0,00075	<0,00061	<0,00062	<0,00059	<0,0005	<0,00065	<0,00074	<0,0005	<0,00086	<0,00053
Calcium	Ca	mg/l	3,63	3,76	4,18	4,33	4,71	4,40	4,06	4,17	4,18	4,53	4,37
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000014	0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000181	0,000090	0,000060	0,000044	0,000034	0,000029	0,000022	0,000029	0,000026	0,000029	0,000021
Chrome	Cr	mg/l	0,00013	0,00015	<0,00008	0,00013	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008
Cuivre	Cu	mg/l	0,0089	0,0035	<0,0013	<0,0008	0,0009	0,0006	<0,0005	<0,0005	<0,0004	<0,0005	0,0004
Fer	Fe	mg/l	<0,011	0,007	0,007	0,007	<0,007	0,007	0,007	0,007	<0,007	0,007	0,016
Potassium	K	mg/l	1,86	1,18	0,80	0,563	0,498	0,413	0,331	0,307	0,301	0,294	0,257
Lithium	Li	mg/l	0,1340	0,0990	0,0406	0,0215	0,0171	0,0128	0,0102	0,0090	0,0095	0,0095	0,0073
Magnésium	Mg	mg/l	0,212	0,217	0,235	0,234	0,210	0,203	0,164	0,169	0,148	0,161	0,142
Manganese	Mn	mg/l	0,00182	0,00290	0,00326	0,00295	0,00357	0,00352	0,00337	0,00349	0,00351	0,00399	0,00377
Molybdène	Mo	mg/l	0,00224	0,00148	0,00040	0,00046	0,00020	0,00070	0,00018	0,00114	0,00185	0,00024	0,00009
Sodium	Na	mg/l	20,20	9,64	3,33	1,55	1,15	0,89	0,58	0,61	0,57	0,54	0,38
Nickel	Ni	mg/l	0,0005	0,0004	0,0002	0,0022	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00011	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0200	0,0572	0,0236	0,0178	0,0123	0,0157	0,0137	0,0082	0,0067	0,0062	0,0059
Sélénium	Se	mg/l	0,00067	0,00043	0,00036	0,00021	0,00023	0,00019	0,00014	0,00017	0,00015	0,00017	0,00009
Etain	Sn	mg/l	0,00485	0,00131	0,00056	0,00023	0,00023	0,00015	0,00019	0,00014	<0,0001	<0,00009	0,00009
Strontium	Sr	mg/l	0,0121	0,0119	0,01264	0,0120	0,01260	0,0109	0,0100	0,00988	0,0093	0,01066	0,0094
Titane	Ti	mg/l	0,00017	0,00013	0,00005	0,00033	0,00005	<0,00005	0,00005	0,00005	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000076	<0,000042	0,000030	<0,00002	<0,000021	0,000018	<0,000016	<0,000015	<0,000019	<0,000014	<0,000013
Uranium	U	mg/l	0,030300	0,101000	0,040880	0,032000	0,027300	0,021300	0,017600	0,014327	0,01530	0,015700	0,012015
Vanadium	V	mg/l	0,00143	0,00089	0,00058	0,00042	0,00037	0,00031	0,00024	0,00028	0,00025	0,00026	0,00026
Tungstène	W	mg/l	0,00714	0,00867	0,00239	0,00123	0,00103	0,00047	0,00048	0,00039	0,00029	0,00026	0,00024
Yttrium	Y	mg/l	<0,00018	<0,00008	<0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00008	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00011	0,00006	0,00003	0,00002	0,00002	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Césium (total)	Cs	mg/l	0,0143	0,0096	0,0087	0,0074	0,0067	0,0049	0,0048	0,0047	0,0050	0,0049	0,0041
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0016	<0,0016	<0,0012	<0,001	<0,0008	0,0002	<0,0006	0,0006	<0,0006	<0,0005	<0,0005
Gadolinium (total)	Gd	mg/l	<0,00007	<0,00003	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0002	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0006	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0028	<0,0009	<0,0003	<0,0002	<0,0002	<0,0001	<0,0002	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,0709	0,0362	0,0272	0,0199	0,0178	0,0148	0,0118	0,0120	0,0114	0,0122	0,0103
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0003	<0,0003	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0003	<0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1005	997	998	977	987	999	997	992	1009	1009	989
pH	pH	No unit	7,61	7,62	7,43	7,26	7,28	7,49	7,39	7,46	7,34	7,50	7,51
Alkalinité	Alkalinité	$mgCaCO_3/l$	10	10	8	7	10	9	7	16	8	7	11
Conductivité	Conductivité	µS/cm	22	20	15	15	18	20	17	16	17	15	18
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2	2	2	2	2	2	2	2
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	<2,0	2
Chlore	Cl^-	mg/l					1	<1,0		<1,0		1	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00009	<0,00005
Aluminum	Al	mg/l	0,061	0,094	0,065	0,096	0,093	0,098	0,105	0,093	0,101	0,097	0,101
Arsenic	As	mg/l	0,0168	0,0118	0,0096	0,0092	0,0136	0,0107	0,0104	0,0110	0,0108	0,0091	0,0072
Baryum	Ba	mg/l	0,00017	0,00021	0,00015	0,00018	0,00024	0,00018	0,00022	0,00029	0,00030	0,00018	0,00027
Beryllium	Be	mg/l	0,000424	<0,000145	<0,000155	<0,000178	<0,00009	<0,000133	<0,000135	<0,000081	<0,00009	<0,000079	<0,000095
Bore	B	mg/l	0,003	0,002	0,002	0,002	0,003	0,002	0,002	0,004	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00018	<0,00046	<0,0004	<0,00033	<0,00036	<0,00055	<0,00039	<0,00038	<0,00036	<0,00036	<0,00033
Calcium	Ca	mg/l	3,72	3,69	2,47	2,88	3,60	3,37	3,18	3,15	3,18	2,88	2,91
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003	<0,000003	<0,000005	<0,000003	0,000003	<0,000003
Cobalt	Co	mg/l	0,000010	0,000047	0,000092	0,000058	0,000053	0,000021	0,000016	0,000017	0,000017	0,000016	0,000007
Chrome	Cr	mg/l	0,00012	0,00008	0,00008	<0,00016	<0,00008	0,00011	<0,00008	0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0004	0,0009	0,0006	0,0003	0,0003	<0,0003	<0,0004	0,0004	<0,0002	<0,0006
Fer	Fe	mg/l	0,007	0,032	<0,007	<0,007	0,007	<0,022	<0,007	0,007	<0,007	<0,007	0,007
Potassium	K	mg/l	0,210	0,178	0,107	0,159	0,176	0,158	0,141	0,142	0,130	0,116	0,102
Lithium	Li	mg/l	0,0078	0,0060	0,0040	0,0045	0,0048	0,0044	0,0042	0,0032	0,0037	0,0035	0,0037
Magnésium	Mg	mg/l	0,121	0,124	0,072	0,087	0,10	0,082	0,080	0,074	0,076	0,063	0,06
Manganese	Mn	mg/l	0,00269	0,00447	0,00905	0,00491	0,00382	0,00349	0,00355	0,00318	0,00327	0,00306	0,00315
Molybdène	Mo	mg/l	0,00007	0,00010	0,00084	0,00022	0,00016	0,00004	0,00006	0,00138	0,00013	0,00030	0,00179
Sodium	Na	mg/l	0,34	0,31	0,20	0,29	0,29	0,26	0,23	0,26	0,23	0,17	0,19
Nickel	Ni	mg/l	0,0001	0,0011	0,0015	0,0006	0,0001	0,0005	0,0001	0,0002	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00012	<0,00009	0,00009	0,00009	<0,00009	<0,00009	<0,00009	0,00009	0,00009
Antimoine	Sb	mg/l	0,0053	0,0042	0,0038	0,0036	0,0051	0,0038	0,0035	0,0034	0,0030	0,0032	0,0033
Sélénium	Se	mg/l	0,00013	0,00007	0,00004	0,00004	0,00009	0,00005	0,00008	0,00004	0,00006	0,00004	0,00006
Etain	Sn	mg/l	<0,0001	<0,00011	0,00018	<0,00008	<0,00014	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,0001
Strontium	Sr	mg/l	0,0078	0,0082	0,00543	0,0062	0,0078	0,0071	0,0066	0,0062	0,0065	0,0061	0,00548
Titane	Ti	mg/l	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00007	0,00013	0,00007	0,00007	0,00007
Thallium	Th	mg/l	0,000020	<0,000017	<0,00001	<0,000012	<0,00001	<0,000007	<0,00001	<0,00001	<0,000008	0,000012	<0,000005
Uranium	U	mg/l	0,004560	0,01297	0,009800	0,008280	0,009870	0,008910	0,00792	0,008250	0,007070	0,00839	0,00563
Vanadium	V	mg/l	0,00020	0,00013	0,00009	0,00011	0,00015	0,00015	0,00014	0,00017	0,00013	0,00011	0,00011
Tungstène	W	mg/l	0,00021	0,00015	0,00012	0,00012	0,00015	0,00009	0,00012	0,00137	0,00013	0,00009	0,00008
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,008	<0,004	<0,004	0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0000	0,0000		0,0000		0,0000	
Dysprosium (total)	Dy	mg/l					<0,0034	<0,0035		<0,0028		<0,0024	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gadolinium (total)	Gd	mg/l					<0,0003	<0,0003		<0,0002		<0,0002	
Germanium (total)	Ge	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0001	0,0001		0,0001		0,0001	
Rhenium (total)	Re	mg/l					<0,0078	<0,0072		<0,0058		<0,0051	
Rhodium (total)	Rh	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Scandium (total)	Sc	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	996	989	1000	992	1007	1001	1007	982	998	1005	1014
pH	pH	No unit	7,27	7,32	7,36	7,4	7,34	7,16	7,13	7,03	7,01	6,90	7,18
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	7	7	8	9	6	6	4	7	5	5
Conductivité	Conductivité	µS/cm	20	14	15	16	20	14	11	9	13	13	14
Acidité	Acidité	$mgCaCO_3/l$	<2,0	2	<2,0	2	2	<2,0	2	<2,0	2	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,083	0,065	0,078	0,092	0,109	0,077	0,054	0,052	0,061	0,063	0,075
Arsenic	As	mg/l	0,0071	0,0055	0,0063	0,0061	0,0063	0,0059	0,0035	0,0032	0,0053	0,0051	0,0051
Baryum	Ba	mg/l	0,00015	0,00013	0,00013	0,00013	0,00017	0,00014	0,00011	0,00014	0,0002	0,00015	0,00011
Beryllium	Be	mg/l	<0,000078	<0,000089	0,000066	<0,000079	<0,000083	<0,000057	<0,000072	<0,000108	0,000154	<0,00009	<0,000076
Bore	B	mg/l	0,002	0,002	0,003	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00022	<0,00019	<0,00027	<0,00032	<0,00034	<0,0002	<0,00021	<0,00017	<0,00018	<0,00025	<0,00023
Calcium	Ca	mg/l	2,60	2,46	2,66	3,02	2,91	2,46	2,24	1,61	2,86	2,50	2,43
Cadmium	Cd	mg/l	0,000003	<0,000004	0,000013	<0,000003	<0,000003	0,000003	<0,000003	0,000004	0,000013	0,000003	<0,000003
Cobalt	Co	mg/l	0,000057	0,000009	0,000012	0,000009	0,000017	0,000012	0,000006	0,000019	0,000019	0,000014	0,000012
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,0002	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0003	<0,0006	0,0002	<0,0004	<0,0002	<0,0008	<0,0002	0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,104	0,092	0,091	0,12	0,119	0,074	0,071	0,05	0,09	0,082	0,066
Lithium	Li	mg/l	0,0035	0,0028	0,0028	0,0028	0,0025	0,0019	0,0021	0,0014	0,0022	0,0021	0,0020
Magnésium	Mg	mg/l	0,054	0,055	0,04	0,066	0,051	0,043	0,039	0,03	0,048	0,040	0,036
Manganese	Mn	mg/l	0,00291	0,00292	0,00386	0,00334	0,00279	0,00252	0,00258	0,00246	0,00346	0,00273	0,00279
Molybdène	Mo	mg/l	0,00062	0,00019	0,00026	0,00023	0,00039	0,00011	0,00041	0,0001	0,00007	0,00024	0,00005
Sodium	Na	mg/l	0,16	0,15	0,17	0,2	0,2	0,14	0,14	0,1	0,14	0,14	0,15
Nickel	Ni	mg/l	0,0002	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	0,00009	0,00009	0,00018	<0,00009	<0,00009	<0,00009	0,00009	<0,00009
Antimoine	Sb	mg/l	0,0023	0,0025	0,002	0,0025	0,002	0,0025	0,0013	0,0014	0,0026	0,0023	0,0018
Sélénium	Se	mg/l	0,00005	0,00004	0,00008	0,00004	0,0001	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,0052	0,00509	0,00542	0,00593	0,0055	0,0045	0,00396	0,00353	0,00511	0,0046	0,0049
Titane	Ti	mg/l	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	<0,00007
Thallium	Th	mg/l	0,000009	<0,000005	<0,000007	<0,000006	<0,000009	0,000005	<0,000005	<0,000007	<0,000012	<0,000006	<0,000005
Uranium	U	mg/l	0,009420	0,00676	0,00553	0,00575	0,00476	0,003600	0,00437	0,0039	0,00503	0,00426	0,008670
Vanadium	V	mg/l	0,00010	0,00007	0,00009	0,00015	0,00009	0,00009	0,00006	0,00005	0,00008	0,00007	0,00008
Tungstène	W	mg/l	0,00009	0,00005	0,00006	0,00005	0,00007	0,00004	0,00004	0,00004	0,00005	0,00005	0,00005
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				0,00001					<0,00001		
Cérium (total)	Ce	mg/l				0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,00001					0,00001		
Dysprosium (total)	Dy	mg/l				0,0026					<0,0019		
Erbium (total)	Er	mg/l				0,0001					<0,0001		
Europium (total)	Eu	mg/l				0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0001					<0,0001		
Gadolinium (total)	Gd	mg/l				0,0002					<0,0001		
Germanium (total)	Ge	mg/l				0,00001					<0,00001		
Hafnium (total)	Hf	mg/l				0,0001					<0,0001		
Holmium (total)	Ho	mg/l				0,0001					<0,0001		
Indium (total)	In	mg/l				0,0001					<0,0001		
Iridium (total)	Ir	mg/l				0,0001					<0,0001		
Lanthanum (total)	La	mg/l				0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				0,0001					<0,0001		
Niobium (total)	Nb	mg/l				0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				0,0001					<0,0001		
Osmium (total)	Os	mg/l				0,0001					<0,0001		
Palladium (total)	Pd	mg/l				0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				0,0001					<0,0001		
Platinum (total)	Pt	mg/l				0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0001					0,0001		
Rhenium (total)	Re	mg/l				0,0051					<0,004		
Rhodium (total)	Rh	mg/l				0,0001					<0,0001		
Scandium (total)	Sc	mg/l				0,00001					<0,00001		
Samarium (total)	Sm	mg/l				0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				0,0001					<0,0001		
Terbium (total)	Tb	mg/l				0,0001					<0,0001		
Tellurium (total)	Te	mg/l				0,0001					<0,0001		
Thorium (total)	Th	mg/l				0,0001					<0,0001		
Thulium (total)	Tm	mg/l				0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	964	995	1012	995	994	998	1010	999	1012	1020	955
pH	pH	No unit	7,26	7,16	7,12	7,20	7,43	6,97	7,24	6,99	7,05	7,20	6,89
Alkalinité	Alkalinité	$mgCaCO_3/l$	6	5	6	7	6	6	6	5	4	4	3
Conductivité	Conductivité	µS/cm	13	13	14	14	14	12	13	13	11	9	7
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,3	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	0	2	2	2
Chlore	Cl^-	mg/l	***		<1,0					2			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,03			
Bromide	Br	mg/l	***		<0,3					<0,06			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,073	0,073	0,064	0,067	0,080	0,071	0,125	0,049	0,061	0,042	0,041
Arsenic	As	mg/l	0,0047	0,0041	0,0042	0,0038	0,0038	0,0039	0,0041	0,0053	0,0034	0,0021	0,0022
Baryum	Ba	mg/l	0,00014	0,00012	0,00011	0,00013	0,00013	0,00008	0,00016	0,00008	0,00046	0,00012	0,00008
Beryllium	Be	mg/l	<0,000071	<0,000075	<0,000069	<0,000079	<0,000102	<0,000082	<0,000281	<0,000012	<0,000053	<0,000106	<0,000091
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00022	<0,00015	<0,00016	<0,00021	<0,0003	<0,00027	<0,00038	<0,00001	<0,00029	<0,00019	<0,0001
Calcium	Ca	mg/l	2,42	2,46	2,46	2,48	2,55	2,25	2,60	1,30	2,00	1,61	1,11
Cadmium	Cd	mg/l	<0,000003	<0,000004	<0,000003	<0,000003	<0,000004	<0,000006	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000007	0,000010	0,000006	0,000009	0,000016	0,000008	0,000018	0,000014	0,000012	0,000012	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0006	0,0002	<0,0003	<0,0002	0,0003	<0,0003	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,009	<0,007	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,065	0,061	0,065	0,093	0,083	0,073	0,097	0,233	0,058	0,038	0,034
Lithium	Li	mg/l	0,0019	0,0018	0,0017	0,0018	0,0038	0,0014	0,0019	0,0016	0,0013	0,0011	0,0009
Magnésium	Mg	mg/l	0,036	0,033	0,033	0,035	0,038	0,032	0,034	0,042	0,020	0,018	0,015
Manganese	Mn	mg/l	0,00272	0,00270	0,00287	0,00282	0,00289	0,00250	0,00335	0,00385	0,00258	0,00229	0,00172
Molybdène	Mo	mg/l	0,00008	0,00010	0,00021	0,00019	0,00004	0,00019	0,00040	<0,0014	<0,0004	<0,0005	<0,0004
Sodium	Na	mg/l	0,11	0,11	0,12	0,24	0,14	0,10	0,12	0,10	0,14	0,09	0,08
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0001	0,0003	0,0001	0,0001	0,0002	0,0002	0,0001	0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	<0,00009	<0,00009	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0017	0,0017	0,0015	0,0015	0,0016	0,0015	0,0017	0,0011	0,0016	0,0010	0,0010
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00011	<0,00006
Strontium	Sr	mg/l	0,0044	0,0045	0,0043	0,0041	0,0044	0,0040	0,0045	0,00175	0,00340	0,00280	0,00208
Titane	Ti	mg/l	<0,00007	0,00007	<0,00007	0,00007	0,00007	0,00007	0,00020	0,0001	0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000012	<0,00004	<0,000005	<0,000005	<0,000007
Uranium	U	mg/l	0,004360	0,003620	0,00346	0,003480	0,003460	0,00358	0,00316	0,000488	0,003150	0,002230	0,002870
Vanadium	V	mg/l	0,00007	0,00008	0,00007	0,00006	0,00007	0,00007	0,00008	0,00003	0,00006	0,00005	0,00004
Tungstène	W	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					0,00001			
Césium (total)	Cs	mg/l			0,0000					0,0000			
Dysprosium (total)	Dy	mg/l			<0,0016					<0,0079			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			<0,0001					<0,00001			
Gadolinium (total)	Gd	mg/l			<0,0002					<0,0001			
Germanium (total)	Ge	mg/l			<0,00001					<0,00001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,0001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,00001			
Niobium (total)	Nb	mg/l			<0,0001					<0,0001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,00001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,0001			
Platinum (total)	Pt	mg/l			<0,0001					<0,00001			
Rubidium (total)	Rb	mg/l			0,0001					0,0001			
Rhenium (total)	Re	mg/l			<0,0034					<0,0164			
Rhodium (total)	Rh	mg/l			<0,0001					<0,0001			
Scandium (total)	Sc	mg/l			<0,00001					<0,00001			
Samarium (total)	Sm	mg/l			<0,0001					<0,0001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,00001			
Terbium (total)	Tb	mg/l			<0,0001					<0,0001			
Tellurium (total)	Te	mg/l			<0,0001					<0,00001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,0001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

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Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	992	996	1008	1008	979	1008	987	998	1018	1000	994
pH	pH	No unit	6,93	7,18	7,22	7,09	7,28	7,35	7,33	7,08	7,30	7,24	7,21
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	6	5	6	6	6	5	7	5	4
Conductivité	Conductivité	µS/cm	8	10	11	12	12	12	13	12	12	10	9
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2	2	2	2
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,047	0,042	0,033	0,049	0,042	0,047	0,052	0,043	0,055	0,049	0,052
Arsenic	As	mg/l	0,0020	0,0027	0,0028	0,0033	0,0030	0,0032	0,0027	0,0026	0,0024	0,0024	0,0023
Baryum	Ba	mg/l	0,00010	0,00013	0,00009	0,00012	0,00010	0,00008	0,00011	0,00009	0,00014	0,00010	0,00014
Beryllium	Be	mg/l	<0,000179	<0,000096	<0,000036	<0,000052	<0,000059	<0,000052	<0,000078	<0,000079	<0,000065	<0,000087	<0,000072
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,0002	<0,00017	<0,00011	<0,00028	<0,00023	<0,00014	<0,00019	<0,00022	<0,00018	<0,00022	<0,0002
Calcium	Ca	mg/l	1,46	2,24	1,78	2,31	2,06	2,04	2,39	1,91	2,35	2,13	2,08
Cadmium	Cd	mg/l	<0,000005	<0,000003	<0,000003	<0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000080	0,000010	0,000006	0,000011	0,000010	0,000006	0,000005	0,000007	0,000029	0,000013	0,000007
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,044	0,061	0,038	0,067	0,052	0,053	0,051	0,046	0,051	0,057	0,051
Lithium	Li	mg/l	0,0011	0,0012	0,0011	0,0013	0,0011	0,0011	0,0012	0,0010	0,0011	0,0012	0,0011
Magnésium	Mg	mg/l	0,022	0,029	0,023	0,028	0,024	0,024	0,026	0,021	0,024	0,032	0,021
Manganese	Mn	mg/l	0,00216	0,00261	0,00210	0,00253	0,00239	0,00246	0,00256	0,00219	0,00269	0,00249	0,00244
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,08	0,10	0,08	0,10	0,10	0,10	0,09	0,09	0,10	0,10	0,09
Nickel	Ni	mg/l	0,0006	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00011	<0,00026	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0012	0,0014	0,0015	0,0013	0,0012	0,0013	0,0010	0,0012	0,0013	0,0011	0,0011
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00005	0,00004	0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,0001	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00290	0,00390	0,00309	0,00389	0,00333	0,00333	0,00405	0,00319	0,00370	0,00322	0,00322
Titane	Ti	mg/l	0,0001	<0,0001	<0,0001	0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	<0,000006	<0,000005	<0,000005	<0,000005	<0,000005	<0,000005	<0,000007	<0,000005	<0,000006	<0,000005	<0,000005
Uranium	U	mg/l	0,002860	0,004043	0,003140	0,003540	0,003290	0,003030	0,003520	0,002630	0,003160	0,002940	0,002800
Vanadium	V	mg/l	0,00003	0,00005	0,00003	0,00004	0,00009	0,00004	0,00005	0,00005	0,00004	0,00005	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0016					0,0016				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		<0,0001					<0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00002				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0032					0,0031				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	992	1002	1017	1016	1012	1008	1020	987	959	1010	1002
pH	pH	No unit	7,36	6,58	7,08	7,17	7,31	7,14	7,10	7,46	7,40	7,20	6,98
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	2	5	5	6	5	6	5		5	
Conductivité	Conductivité	µS/cm	9	7	10	10	11	11	11	11	9	10	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<5,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	2	2	2		2	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,042	0,047	0,045	0,052	0,058	0,055	0,054	0,043		0,048	
Arsenic	As	mg/l	0,0023	0,0027	0,0022	0,0030	0,0030	0,0032	0,0025	0,0019		0,0024	
Baryum	Ba	mg/l	0,00009	0,00014	0,00009	0,00011	0,00014	0,00017	0,00010	0,00010		0,00013	
Beryllium	Be	mg/l	<0,000087	<0,000052	<0,000087	<0,000109	<0,000064	<0,000074	<0,000061	<0,000121		<0,000048	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00015	<0,00015	<0,00014	<0,00014	<0,0002	<0,00018	<0,00015	<0,00011		<0,00026	
Calcium	Ca	mg/l	2,02	2,20	2,14	2,19	2,52	2,24	2,05	1,80		2,21	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000004	<0,000003		<0,000003	
Cobalt	Co	mg/l	0,000010	0,000010	0,000008	0,000008	0,000149	0,000007	0,000080	0,000007		0,000015	
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00009	<0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,004	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		0,022	
Potassium	K	mg/l	0,048	0,054	0,056	0,062	0,060	0,053	0,054	0,040		0,064	
Lithium	Li	mg/l	0,0011	0,0010	0,0010	0,0010	0,0011	0,0011	0,0010	0,0009		0,0009	
Magnésium	Mg	mg/l	0,020	0,025	0,023	0,021	0,027	0,028	0,021	0,017		0,022	
Manganese	Mn	mg/l	0,00235	0,00252	0,00246	0,00250	0,00279	0,00261	0,00278	0,00227		0,00370	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004		<0,0004	
Sodium	Na	mg/l	0,10	0,08	0,10	0,09	0,10	0,12	0,08	0,08		0,12	
Nickel	Ni	mg/l	0,0001	0,0006	0,0002	0,0002	0,0003	0,0002	0,0005	0,0001		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0011	0,0012	0,0011	0,0013	0,0015	0,0012	0,0013	0,0010		0,0013	
Sélénium	Se	mg/l	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004	0,00004		0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00326	0,00357	0,00299	0,00335	0,00369	0,00385	0,00316	0,00275		0,00334	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001		<0,0001	
Thallium	Th	mg/l	<0,000005	<0,000005	<0,000005	<0,000005	<0,000006	<0,000005	<0,000006	<0,000005		<0,000005	
Uranium	U	mg/l	0,002890	0,002970	0,002750	0,002580	0,002930	0,002720	0,002620	0,002160		0,003000	
Vanadium	V	mg/l	0,00006	0,00007	0,00007	0,00005	0,00006	0,00004	0,00004	0,00002		0,00005	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,007	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0014					0,0015				0,0016	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	<0,0001					<0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	<0,00003					<0,00001				<0,00002	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0029					0,0031				0,0032	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1010	1001	1015	997	1006	981	1003	1007	1012	1006	1007
pH	pH	No unit	7,15	6,85	6,97	6,83	7,15	7,14	7,14	7,00	7,27	7,15	7,12
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				5				4
Conductivité	Conductivité	µS/cm	13	2	14	11	13	12	10	12	13	12	10
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,051				0,056				0,052
Arsenic	As	mg/l			0,0025				0,0023				0,0021
Baryum	Ba	mg/l			0,00010				0,00013				0,00011
Beryllium	Be	mg/l			<0,000077				<0,000071				<0,000073
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00025				<0,00019				<0,0002
Calcium	Ca	mg/l			2,01				2,29				2,00
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000008
Cobalt	Co	mg/l			0,000019				0,000006				0,000031
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,049				0,053				0,044
Lithium	Li	mg/l			0,0008				0,0008				0,0007
Magnésium	Mg	mg/l			0,017				0,018				0,015
Manganese	Mn	mg/l			0,00207				0,00228				0,00230
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,10				0,10				0,06
Nickel	Ni	mg/l			0,0002				0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0011				0,0009				0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00293				0,00307				0,00243
Titane	Ti	mg/l			<0,0001				<0,0001				0,0001
Thallium	Th	mg/l			<0,000005				<0,000005				<0,000005
Uranium	U	mg/l			0,002350				0,002090				0,001820
Vanadium	V	mg/l			0,00005				0,00004				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00002
Césium (total)	Cs	mg/l			0,0015				0,0015				0,0014
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00002
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00002				<0,00002
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0030				0,0029				0,0032
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

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Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	1012	1019	1004	1011	1013	1005	997	1001	977	1012	1027
pH	pH	No unit	7,08	7,09	6,92	6,59	7,1	7,08	6,95	7,02	7,05	7,1	7,39
Alkalinité	Alkalinité	$mgCaCO_3/l$				<3,0				5			
Conductivité	Conductivité	µS/cm	11	12	11	10	11	11	9	7	10	9	13
Acidité	Acidité	$mgCaCO_3/l$				2				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				2				2			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,055				0,029			
Arsenic	As	mg/l				0,0020				0,0013			
Baryum	Ba	mg/l				0,00009				0,00008			
Beryllium	Be	mg/l				<0,000047				<0,000124			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00023				<0,0001			
Calcium	Ca	mg/l				1,97				1,45			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000008				0,000005			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,045				0,034			
Lithium	Li	mg/l				0,0008				0,0006			
Magnésium	Mg	mg/l				0,019				0,011			
Manganese	Mn	mg/l				0,00242				0,00203			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				0,0001				0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0009				0,0009			
Sélénium	Se	mg/l				0,00004				0,00004			
Etain	Sn	mg/l				<0,00006				<0,00006			
Strontium	Sr	mg/l				0,00273				0,00200			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				<0,000005				0,000006			
Uranium	U	mg/l				0,001640				0,000985			
Vanadium	V	mg/l				0,00005				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0012				0,0011			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00003			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0023				0,0022			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1047	1017
pH	pH	No unit	7,09	7,08
Alkalinité	Alkalinité	mg$CaCO_3$/l	6	
Conductivité	Conductivité	µS/cm	10	15
Acidité	Acidité	mg$CaCO_3$/l	2	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	2	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,042	
Arsenic	As	mg/l	0,0015	
Baryum	Ba	mg/l	0,00009	
Beryllium	Be	mg/l	<0,000076	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00021	
Calcium	Ca	mg/l	1,84	
Cadmium	Cd	mg/l	<0,000004	
Cobalt	Co	mg/l	0,000019	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,039	
Lithium	Li	mg/l	0,0008	
Magnésium	Mg	mg/l	0,013	
Manganese	Mn	mg/l	0,00256	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	<0,0009	
Sélénium	Se	mg/l	0,00004	
Etain	Sn	mg/l	<0,00006	
Strontium	Sr	mg/l	0,00247	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000006	
Uranium	U	mg/l	0,001303	
Vanadium	V	mg/l	0,00003	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	0,00001	
Césium (total)	Cs	mg/l	0,0014	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00004	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0026	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-69

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1036	1025	1020	1017	962	1018	1003	998	1003	984	972
pH	pH	No unit	7,17	6,74	7,32	6,7	6,92	6,88	7,08	6,84	6,91	6,96	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				<5,0				<3,0
Conductivité	Conductivité	µS/cm	12	11	11	10	7	11	10	10	11	11	8
Acidité	Acidité	$mgCaCO_3/l$			<2,0				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			2				2				2
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,057				0,057				0,061
Arsenic	As	mg/l			0,0024				0,0018				0,0016
Baryum	Ba	mg/l			0,00008				0,00018				0,00010
Beryllium	Be	mg/l			<0,000059				<0,000076				<0,000101
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00014				<0,00019				<0,0002
Calcium	Ca	mg/l			1,96				2				1,72
Cadmium	Cd	mg/l			<0,000003				0,000003				<0,000003
Cobalt	Co	mg/l			0,000006				0,000016				0,000009
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,047				0,051				0,049
Lithium	Li	mg/l			0,0006				0,0007				0,0006
Magnésium	Mg	mg/l			0,013				0,014				0,011
Manganese	Mn	mg/l			0,00226				0,00247				0,00183
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,09				0,08
Nickel	Ni	mg/l			0,0001				0,0002				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,001				<0,0009				<0,0009
Sélénium	Se	mg/l			0,00004				0,00004				0,00004
Etain	Sn	mg/l			0,00007				<0,00007				<0,00006
Strontium	Sr	mg/l			0,00253				0,00267				0,00205
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000006				<0,000005				<0,000006
Uranium	U	mg/l			0,00152				0,00176				0,001360
Vanadium	V	mg/l			0,00004				0,00003				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			0,00001				0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0016				0,0015				0,0015
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			0,00001				0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00002				<0,00002				<0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,003				0,003				0,0026
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	827	1004	1010	1010	1006	994	992	982	973	1001	986
pH	pH	No unit	7,90	7,59	7,53	7,40	7,19	7,07	6,99	7,01	7,09	7,03	7,09
Alkalinité	Alkalinité	$mgCaCO_3/l$	11	17	12	10	7	6	5	5	5	5	5
Conductivité	Conductivité	µS/cm	154	94	29	27	14	15	11	12	13	11	15
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	0,44	0,41	0,21	0,11	<0,06	<0,06	<0,06	0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,34	0,68	0,44	0,20	0,12	0,08	0,06	0,06	0,08	0,04	0,04
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l	44	26	2	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,135	0,096	0,069	0,050	0,044	0,038	0,034	0,037	0,039	0,037	0,034
Arsenic	As	mg/l	0,933	1,39	0,494	0,198	0,119	0,0895	0,0599	0,0545	0,0458	0,0447	0,0379
Baryum	Ba	mg/l	0,00011	0,00023	0,00009	<0,00008	0,00015	<0,00008	0,00010	0,00010	0,00016	0,00009	0,00010
Beryllium	Be	mg/l	0,000031	0,000036	0,000028	0,000013	0,000012	0,000011	<0,000007	<0,000007	0,000009	<0,000007	<0,000007
Bore	B	mg/l	0,038	0,075	0,025	0,012	0,009	0,005	0,004	0,003	0,006	0,003	<0,002
Bismuth	Bi	mg/l	0,00004	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	1,04	0,87	0,72	1,08	1,31	1,51	1,42	1,62	1,78	1,64	1,62
Cadmium	Cd	mg/l	0,000004	<0,000003	<0,000003	0,000021	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003	0,000003
Cobalt	Co	mg/l	0,000080	0,000107	0,000048	0,000049	0,000042	0,000043	0,000021	0,000032	0,000058	0,000022	0,000016
Chrome	Cr	mg/l	0,00009	0,00014	<0,00008	0,00016	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0022	0,0015	0,0006	0,0005	0,0003	0,0004	0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,017
Potassium	K	mg/l	3,30	2,46	1,40	1,12	0,863	0,734	0,552	0,515	0,511	0,398	0,366
Lithium	Li	mg/l	0,867	0,918	0,272	0,142	0,0846	0,0593	0,0424	0,0391	0,0384	0,0309	0,0262
Magnésium	Mg	mg/l	0,048	0,057	0,036	0,047	0,048	0,062	0,057	0,055	0,058	0,048	0,047
Manganese	Mn	mg/l	0,00575	0,0116	0,01185	0,0181	0,0219	0,0294	0,0246	0,03340	0,0394	0,04016	0,0381
Molybdène	Mo	mg/l	0,00271	0,00058	0,00045	0,00018	0,00025	0,00039	0,00006	0,00029	0,00258	0,00006	0,00011
Sodium	Na	mg/l	21,6	16,2	4,74	2,25	1,20	0,92	0,58	0,54	0,50	0,36	0,30
Nickel	Ni	mg/l	0,0002	0,0004	0,0002	0,0004	0,0002	0,0004	0,0001	0,0001	0,0002	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0427	0,224	0,112	0,0805	0,0494	0,0489	0,0381	0,0427	0,0428	0,0366	0,0326
Sélénium	Se	mg/l	<0,00004	<0,00004	0,00010	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00013	<0,00004	<0,00004
Etain	Sn	mg/l	0,00470	0,00248	0,00108	0,00043	0,00026	0,00029	0,00016	0,00018	0,00008	0,00006	0,00007
Strontium	Sr	mg/l	0,00345	0,00310	0,00192	0,00235	0,00290	0,00293	0,00343	0,00290	0,00318	0,00291	0,00272
Titane	Ti	mg/l	0,00007	0,00010	<0,00005	0,00031	<0,00005	<0,00005	<0,00005	<0,00005	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000335	0,000256	0,000138	0,000128	0,000101	0,000107	0,000075	0,000070	0,000074	0,000060	0,000056
Uranium	U	mg/l	0,00718	0,0539	0,038139	0,0213	0,0152	0,00998	0,0101	0,009223	0,000525	0,00631	0,006351
Vanadium	V	mg/l	0,00017	0,00021	0,00016	0,00010	0,00005	0,00005	0,00003	0,00004	0,00003	0,00005	0,00002
Tungstène	W	mg/l	0,00335	0,00569	0,00155	0,00075	0,00040	0,00013	0,00027	0,00021	0,00015	0,00015	0,00014
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	0,003	0,002	0,003	0,003	0,003	0,002	0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001
Césium (total)	Cs	mg/l	0,156	0,0868	0,0530	0,0476	0,0420	0,0315	0,0320	0,0265	0,0291	0,0238	0,0203
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0005	0,0006	0,0007	0,0007	0,0005	0,0005	0,0004	0,0005	0,0004	0,0004	0,0004
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,316	0,186	0,111	0,0931	0,0745	0,0639	0,0461	0,0487	0,0459	0,0400	0,0346
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	1009	986	995	985	991	1017	998	998	974	1006	998
pH	pH	No unit	6,96	7,11	6,97	6,88	6,87	7,00	6,89	6,98	6,81	6,85	6,83
Alkalinité	Alkalinité	$mgCaCO_3/l$	3	4	4	3	4	4	3	3	3	3	4
Conductivité	Conductivité	µS/cm	8	11	9	8	8	6	7	8	7	6	6
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	0,04	<0,03	0,03	<0,03	0,04	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l					<1,0	<1,0		<1,0		<1,0	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00008	<0,00005
Aluminum	Al	mg/l	0,026	0,032	0,027	0,033	0,028	0,030	0,032	0,027	0,024	0,027	0,029
Arsenic	As	mg/l	0,0302	0,0292	0,0222	0,0255	0,0270	0,0210	0,0201	0,0203	0,0180	0,0207	0,0149
Baryum	Ba	mg/l	<0,00008	0,00009	<0,00008	0,00008	0,00008	0,00013	0,00011	0,00013	0,00011	0,0001	0,00016
Beryllium	Be	mg/l	0,000268	<0,000007	<0,000007	<0,000007	<0,000007	0,000008	<0,000007	<0,000007	<0,000007	0,000012	0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Calcium	Ca	mg/l	1,09	1,40	1,21	1,31	1,36	1,13	1,21	1,22	0,96	1,15	1,08
Cadmium	Cd	mg/l	<0,000003	0,000005	0,000003	0,000005	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000004	0,000003
Cobalt	Co	mg/l	0,000008	0,000029	0,000029	0,000014	0,000043	0,000016	0,000011	0,000007	0,000010	0,000012	0,000025
Chrome	Cr	mg/l	<0,00008	0,00015	0,00018	<0,00008	<0,00008	0,00011	<0,00008	0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0016	0,0004	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	0,0002	<0,0004
Fer	Fe	mg/l	<0,007	0,056	<0,007	0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,015
Potassium	K	mg/l	0,271	0,263	0,199	0,239	0,231	0,194	0,194	0,193	0,155	0,179	0,149
Lithium	Li	mg/l	0,0277	0,0196	0,0158	0,0162	0,0161	0,0138	0,0145	0,0128	0,0107	0,0122	0,0127
Magnésium	Mg	mg/l	0,034	0,039	0,031	0,033	0,032	0,025	0,028	0,030	0,027	0,026	0,024
Manganese	Mn	mg/l	0,0223	0,0370	0,0307	0,0316	0,0391	0,0350	0,0395	0,0446	0,0328	0,044	0,0442
Molybdène	Mo	mg/l	<0,00004	0,00009	0,00068	0,00022	<0,00004	<0,00004	0,00014	0,00018	0,00019	0,0024	0,0003
Sodium	Na	mg/l	0,24	0,22	0,18	0,22	0,19	0,18	0,15	0,18	0,15	0,13	0,14
Nickel	Ni	mg/l	<0,0001	0,0005	0,0017	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0111
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00014	<0,00009	<0,00009	<0,00009	<0,00009	0,00011
Antimoine	Sb	mg/l	0,0294	0,0284	0,0238	0,0253	0,0260	0,0242	0,0220	0,0216	0,0180	0,0187	0,0169
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004
Etain	Sn	mg/l	0,00014	0,00007	0,00008	<0,00006	<0,00006	0,00007	<0,00006	0,00018	<0,00006	0,00007	<0,00014
Strontium	Sr	mg/l	0,00180	0,00225	0,00185	0,00197	0,00219	0,00178	0,00184	0,00202	0,00162	0,00206	0,00165
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000063	0,000051	0,000042	0,000041	0,000042	0,000034	0,000038	0,000034	0,000036	0,000033	0,000036
Uranium	U	mg/l	0,00222	0,00773	0,00470	0,00398	0,00362	0,00285	0,00298	0,00242	0,00265	0,00241	0,00219
Vanadium	V	mg/l	0,00002	0,00003	0,00002	0,00003	<0,00001	0,00007	0,00003	0,00007	0,00002	0,00002	0,00002
Tungstène	W	mg/l	0,00013	0,00011	0,00009	0,00009	0,00009	0,00006	0,00007	0,00031	0,00008	0,00007	0,00006
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	0,005	0,005	0,005	0,004	0,003	<0,002	0,004	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0153	0,0146		0,0142		0,0127	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					0,0003	0,0003		0,0003		0,0003	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0259	0,0218		0,0197		0,0185	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

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Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	983	972	1004	980	1014	1002	981	992	997	1009	1002
pH	pH	No unit	6,79	6,63	6,86	6,99	6,84	6,82	6,78	6,6	6,59	6,44	6,72
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	3	4	3	2	3	2	3	2	2
Conductivité	Conductivité	µS/cm	7	4	7	8	8	5	4	4	5	5	8
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<3,0	5	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				<0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	0,04	<0,26	<0,03	<0,03	0,04	<0,03	0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l				<1,0					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				<0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,027	0,02	0,021	0,059	0,026	0,017	0,021	0,017	0,014	0,017	0,016
Arsenic	As	mg/l	0,0122	0,0123	0,0132	0,0158	0,0123	0,0103	0,011	0,01	0,0103	0,0101	0,0102
Baryum	Ba	mg/l	0,00015	<0,00008	0,00008	0,0002	0,00017	<0,00008	<0,00008	0,00013	<0,00008	<0,00008	0,00009
Beryllium	Be	mg/l	<0,000007	0,000031	0,000013	0,000016	0,000007	<0,000007	<0,000007	<0,000007	0,000017	<0,000007	0,000008
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	0,97	0,84	0,91	1,22	0,92	0,89	0,85	0,66	0,87	0,66	0,68
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	0,000003
Cobalt	Co	mg/l	0,000012	0,000022	0,00001	0,000025	0,000013	0,000009	0,000005	0,000011	0,000013	0,000011	0,000018
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	0,00027	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	<0,0002	0,0002	0,0022	<0,0002	0,0019	<0,0002	0,0002	<0,0002	0,0004	<0,0002
Fer	Fe	mg/l	0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,151	0,129	0,12	0,227	0,159	0,121	0,122	0,086	0,121	0,099	0,094
Lithium	Li	mg/l	0,0106	0,009	0,0091	0,0122	0,0075	0,0067	0,0082	0,006	0,0079	0,0073	0,0068
Magnésium	Mg	mg/l	0,023	0,018	0,017	0,038	0,022	0,017	0,016	0,014	0,018	0,013	0,011
Manganese	Mn	mg/l	0,0392	0,0338	0,0453	0,0699	0,0423	0,0417	0,0423	0,0388	0,044	0,0364	0,0429
Molybdène	Mo	mg/l	0,00031	0,00052	0,00015	0,00012	0,00025	0,00006	0,00007	0,00032	<0,00004	0,00013	0,00005
Sodium	Na	mg/l	0,12	0,1	0,1	0,2	0,2	0,11	0,16	0,08	0,09	0,08	0,10
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0001	0,0001	<0,0001	<0,0001	<0,0001	0,0002	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	0,00009	<0,00009	<0,00012	<0,00009	<0,00009	0,00013	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0136	0,0144	0,0137	0,0177	0,0119	0,0123	0,0109	0,0106	0,0105	0,0108	0,0102
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	0,00011	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,0001	<0,00008	<0,00006	<0,00047	0,00007	<0,00006	<0,00006	<0,00006	<0,00006	0,00012	<0,00006
Strontium	Sr	mg/l	0,00164	0,00132	0,00147	0,00222	0,00152	0,00130	0,00116	0,00123	0,00126	0,00100	0,00099
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000041	0,000032	0,000031	0,00007	0,000035	0,000029	0,00003	0,000031	0,000027	0,000024	0,000029
Uranium	U	mg/l	0,00257	0,00542	0,002	0,00165	0,00128	0,00149	0,00173	0,00152	0,00195	0,00128	0,00121
Vanadium	V	mg/l	0,00002	0,00001	0,00001	0,00011	<0,00001	0,00003	0,00004	0,00001	0,00003	<0,00001	0,00002
Tungstène	W	mg/l	0,00006	0,00004	0,00005	0,00004	0,00005	0,00004	0,00005	0,00005	0,00003	0,00003	0,00004
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	0,004	<0,002	<0,002	<0,002	<0,002	0,002	0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				<0,00001					<0,00001		
Cérium (total)	Ce	mg/l				<0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0202					0,0096		
Dysprosium (total)	Dy	mg/l				<0,0001					<0,0001		
Erbium (total)	Er	mg/l				<0,0001					<0,0001		
Europium (total)	Eu	mg/l				<0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0002					0,0001		
Gadolinium (total)	Gd	mg/l				<0,00001					<0,00001		
Germanium (total)	Ge	mg/l				<0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				<0,0001					<0,0001		
Holmium (total)	Ho	mg/l				<0,0001					<0,0001		
Indium (total)	In	mg/l				<0,0001					<0,0001		
Iridium (total)	Ir	mg/l				<0,0001					<0,0001		
Lanthanum (total)	La	mg/l				<0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				<0,0001					<0,0001		
Niobium (total)	Nb	mg/l				<0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				<0,0001					<0,0001		
Osmium (total)	Os	mg/l				<0,0001					<0,0001		
Palladium (total)	Pd	mg/l				<0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				<0,0001					<0,0001		
Platinum (total)	Pt	mg/l				<0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0248					0,0131		
Rhenium (total)	Re	mg/l				<0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				<0,00001					<0,00001		
Scandium (total)	Sc	mg/l				<0,0001					<0,0001		
Samarium (total)	Sm	mg/l				<0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				<0,0001					<0,0001		
Terbium (total)	Tb	mg/l				<0,0001					<0,0001		
Tellurium (total)	Te	mg/l				<0,0001					<0,0001		
Thorium (total)	Th	mg/l				<0,0001					<0,0001		
Thulium (total)	Tm	mg/l				<0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				<0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	978	990	1015	952	996	1000	1023	978	1040	1021	1004
pH	pH	No unit	6,60	6,55	6,73	6,91	6,76	6,60	6,64	6,83	6,73	6,68	6,68
Alkalinité	Alkalinité	mg$CaCO_3$/l	2	2	3	3	2	2	<2,0	2	2	3	2
Conductivité	Conductivité	µS/cm	5	5	6	5	5	5	3	6	3	4	3
Acidité	Acidité	mg$CaCO_3$/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	2	2
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	0,03	0,03	0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	2	2
Chlore	Cl^-	mg/l	***		<1,0					<1,0			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00005	0,00005	0,00005
Aluminum	Al	mg/l	0,017	0,017	0,018	0,019	0,019	0,021	0,024	0,018	0,040	0,016	0,014
Arsenic	As	mg/l	0,0110	0,0109	0,0099	0,0090	0,0097	0,0093	0,0097	0,0082	0,0097	0,0080	0,0089
Baryum	Ba	mg/l	0,00009	<0,00008	0,00021	<0,00008	<0,00008	<0,00008	0,00043	0,00011	0,00059	0,00012	0,00008
Beryllium	Be	mg/l	0,000010	<0,000007	<0,000007	<0,000007	<0,000007	0,000007	<0,000007	<0,000007	0,000007	0,000007	0,000007
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	0,002	0,002
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001	0,00001	0,00001
Calcium	Ca	mg/l	0,90	0,81	0,93	0,69	0,73	0,71	0,75	0,69	0,71	0,70	0,63
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	0,000004	0,000004	0,000007	<0,000003	0,000006	0,000008	0,000003	0,000003
Cobalt	Co	mg/l	0,000008	0,000008	0,000024	0,000007	0,000011	0,000016	0,000015	0,000006	0,000023	0,000009	0,000008
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00009	0,00008	0,00008
Cuivre	Cu	mg/l	<0,0002	<0,0002	0,0010	<0,0002	<0,0002	<0,0002	<0,002	<0,002	0,002	0,001	0,001
Fer	Fe	mg/l	<0,007	<0,007	0,040	<0,007	<0,007	<0,007	<0,007	<0,007	0,017	0,007	0,007
Potassium	K	mg/l	0,100	0,095	0,106	0,119	0,103	0,102	0,110	0,113	0,104	0,089	0,086
Lithium	Li	mg/l	0,0074	0,0071	0,0078	0,0065	0,0077	0,0073	0,0067	0,0068	0,0063	0,0058	0,0061
Magnésium	Mg	mg/l	0,018	0,013	0,015	0,012	0,012	0,015	0,013	0,013	0,008	0,012	0,010
Manganese	Mn	mg/l	0,0569	0,0532	0,0651	0,0449	0,05151	0,0536	0,0544	0,0522	0,0594	0,0598	0,0630
Molybdène	Mo	mg/l	0,00070	0,00018	0,00022	0,00021	0,00042	0,00051	<0,0004	0,0024	0,0005	0,0004	0,0004
Sodium	Na	mg/l	0,11	0,08	0,10	0,13	0,09	0,08	0,06	0,14	0,12	0,11	0,08
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0002	0,0002	0,0003	<0,0001	0,0001	0,0002	0,0005	0,0002	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	0,00026	0,00012	<0,00009	<0,00009	<0,00009	0,00037	0,00013	0,00009
Antimoine	Sb	mg/l	0,0122	0,0113	0,0104	0,0088	0,0104	0,0108	0,0104	0,0086	0,0098	0,0084	0,0086
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004	0,00004	0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	0,00008	0,00022	0,00006
Strontium	Sr	mg/l	0,00139	0,00128	0,00173	0,00110	0,00103	0,00112	0,00143	0,00112	0,00099	0,00103	0,00112
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,0001	<0,0001	0,0001	0,0001	0,0001
Thallium	Th	mg/l	0,000026	0,000027	0,000032	0,000016	0,000023	0,000030	0,000030	0,000024	0,000031	0,000027	0,000031
Uranium	U	mg/l	0,00133	0,00104	0,00106	0,00347	0,000807	0,000909	0,000753	0,000866	0,00082	0,00071	0,00079
Vanadium	V	mg/l	<0,00001	0,00002	0,00002	<0,00001	<0,00001	0,00002	0,00001	<0,00001	0,00003	0,00002	0,00004
Tungstène	W	mg/l	0,00004	0,00005	0,00004	0,00007	0,00003	0,00003	<0,0002	<0,0002	0,0002	0,0002	0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00002	0,00002	0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,004	0,004	0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					<0,00001			
Césium (total)	Cs	mg/l			0,0106					0,0105			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			0,0001					0,0001			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0139					0,0122			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1019	1004	1012	997	988	1002	1004	1012	999	1006	1012
pH	pH	No unit	6,52	6,63	6,65	6,48	6,78	6,69	6,48	6,50	6,64	6,40	6,58
Alkalinité	Alkalinité	$mgCaCO_3/l$	2	2	2	<2,0	2	2	2	2	2	2	2
Conductivité	Conductivité	µS/cm	3	2	2	2	3	3	3	3	3	4	3
Acidité	Acidité	$mgCaCO_3/l$	2	<2	2	2	2	<2,0	<2,0	<2	<2,0	<2,0	<2,0
Fluoride	F	mg/l		0.06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	0.03	0.03	0.03	0.03	0.03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	2	2	2	2	2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l		1					<1,0				
Nitrite	NO_2^-	mgN/l		0.03					<0,03				
Nitrate	NO_3^-	mgN/l		0.06					<0,06				
Bromide	Br	mg/l		0.3					<0,3				
Mercure	Hg	mg/l		0.00001					<0,00001				
Argent	Ag	mg/l	0.00005	0.00005	0.00005	0.00005	0.00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,016	0,014	0,010	0,011	0,014	0,013	0,018	0,009	0,011	0,015	0,015
Arsenic	As	mg/l	0,0079	0,0081	0,0068	0,0075	0,0080	0,0076	0,0069	0,0066	0,0064	0,0073	0,0072
Baryum	Ba	mg/l	0.00008	0.00008	0.00008	0.00008	0.00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Beryllium	Be	mg/l	0,000011	0.000007	0,000007	0,000007	0,000007	<0,000007	<0,000007	0,000010	<0,000007	<0,000007	0,000007
Bore	B	mg/l	0.002	0.002	0.002	0.002	0.002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0.00001	0.00001	0.00001	0.00001	0.00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Calcium	Ca	mg/l	0,55	0,61	0,52	0,50	0,48	0,55	0,59	0,50	0,55	0,48	0,48
Cadmium	Cd	mg/l	0,000003	0,000003	0,000003	0,000003	0,000003	0,000003	<0,000003	<0,000003	0,000003	<0,000003	0,000003
Cobalt	Co	mg/l	0,000008	0,000007	0,000005	0,000007	0,000006	0,000004	0,000005	0,000011	0,000010	0,000012	0,000006
Chrome	Cr	mg/l	0.00008	0.00008	0.00008	0.00008	0.00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0.001	0.001	0.001	0.001	0.001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,009	0.007	0.007	0.007	0.007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,082	0,096	0,067	0,080	0,071	0,082	0,089	0,072	0,071	0,087	0,079
Lithium	Li	mg/l	0,0057	0,0054	0,0050	0,0047	0,0048	0,0051	0,0055	0,0051	0,0059	0,0062	0,0055
Magnésium	Mg	mg/l	0,010	0,010	0,010	0,010	0,010	0,009	0,012	0,010	0,009	0,011	0,009
Manganese	Mn	mg/l	0,0536	0,0553	0,0499	0,0456	0,0480	0,0589	0,0607	0,0534	0,0618	0,0513	0,0531
Molybdène	Mo	mg/l	0.0004	0.0004	0.0004	0.0004	0.0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,07	0,07	0,06	0,06	0,08	0,07	0,08	0,07	0,07	0,09	0,06
Nickel	Ni	mg/l	0,0004	0.0001	0,0001	0,0002	0.0001	<0,0001	<0,0001	0,0001	<0,0001	0,0002	<0,0001
Plomb	Pb	mg/l	0.00009	0.00009	0,00015	0.00009	0.00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0078	0,0079	0,0068	0,0070	0,0070	0,0066	0,0067	0,0062	0,0067	0,0067	0,0067
Sélénium	Se	mg/l	0.00004	0.00004	0.00004	0.00004	0.00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,00006	0,00006	0,00018	0,00006	0,00006	0,00043	<0,00006	<0,00006	0,00009	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00104	0,00097	0,00094	0,00082	0,00084	0,00089	0,00106	0,00082	0,00085	0,00080	0,00080
Titane	Ti	mg/l	0.0001	0.0001	0.0001	0.0001	0.0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000028	0,000028	0,000024	0,000022	0,000026	0,000026	0,000033	0,000030	0,000025	0,000026	0,000029
Uranium	U	mg/l	0,00080	0,00063	0,00046	0,00048	0,00049	0,00047	0,00049	0,00040	0,00044	0,00038	0,00038
Vanadium	V	mg/l	0,00001	0,00002	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	<0,00001	0,00002	0,00003
Tungstène	W	mg/l	0.0002	0.0002	0.0002	0.0002	0.0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	0.002	0.002	0.002	0.002	0.002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		0.00001					<0,00001				
Cérium (total)	Ce	mg/l		0.00001					<0,00001				
Césium (total)	Cs	mg/l		0,0104					0,01				
Dysprosium (total)	Dy	mg/l		0.00001					<0,00001				
Erbium (total)	Er	mg/l		0.00001					<0,00001				
Europium (total)	Eu	mg/l		0.00001					<0,00001				
Gallium (total)	Ga	mg/l		0,0001					0,0001				
Gadolinium (total)	Gd	mg/l		0.00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					0,00002				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,0117					0,0117				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	1010	999	1021	1015	1008	1001	1008	964	964	978	987
pH	pH	No unit	6,46	7,11	6,55	6,51	6,75	6,44	6,44	6,32	6,38	6,36	6,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	5	2	<2,0	<2,0	<2,0	<2,0	<2,0		3	
Conductivité	Conductivité	µS/cm	2	11	2	2	2	3	2	3	3	2	3
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	2	<2,0	2	<2,0	<2	3		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,04	<0,03	<0,03	<0,03	<0,03	<0,03	0,05	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,013	0,012	0,011	0,015	0,015	0,018	0,016	0,034		0,019	
Arsenic	As	mg/l	0,0078	0,0064	0,0071	0,0066	0,0066	0,0067	0,0062	0,0056		0,0068	
Baryum	Ba	mg/l	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	0,00008	<0,00008	<0,00008		<0,00008	
Beryllium	Be	mg/l	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	<0,000007	0,00001		0,000007	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001		<0,00001	
Calcium	Ca	mg/l	0,50	0,44	0,46	0,49	0,48	0,47	0,40	0,36		0,42	
Cadmium	Cd	mg/l	0,000004	<0,000003	<0,000003	0,000019	<0,000003	<0,000003	0,000003	<0,000003		0,000016	
Cobalt	Co	mg/l	0,000007	0,000009	0,000010	0,000010	0,000016	<0,000004	0,000008	0,000011		0,000012	
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00013	0,00012	<0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007		<0,007	
Potassium	K	mg/l	0,077	0,071	0,078	0,091	0,087	0,079	0,076	0,072		0,087	
Lithium	Li	mg/l	0,0056	0,0049	0,0048	0,0057	0,0058	0,0055	0,0055	0,0049		0,005	
Magnésium	Mg	mg/l	0,010	0,010	0,010	0,014	0,009	0,012	0,007	0,007		0,011	
Manganese	Mn	mg/l	0,0578	0,0519	0,0494	0,0537	0,0539	0,0555	0,0498	0,0419		0,0426	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	0,0329	<0,0004	<0,0004	<0,0004	<0,0004		0,0294	
Sodium	Na	mg/l	0,08	0,06	0,08	0,10	0,07	0,07	0,05	0,07		0,12	
Nickel	Ni	mg/l	<0,0001	0,0004	0,0002	0,0001	0,0002	0,0003	0,0001	0,0003		0,0002	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009		<0,00009	
Antimoine	Sb	mg/l	0,0069	0,0061	0,0063	0,0064	0,0065	0,0066	0,0058	0,0048		0,0066	
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004		<0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006		<0,00006	
Strontium	Sr	mg/l	0,00084	0,00081	0,00071	0,00087	0,00079	0,00090	0,00070	0,00069		0,00073	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001		<0,0001	
Thallium	Th	mg/l	0,000029	0,000026	0,000024	0,000028	0,000031	0,000031	0,000031	0,000041		0,000028	
Uranium	U	mg/l	0,00041	0,00038	0,00028	0,000348	0,000359	0,000365	0,000348	0,000371		0,000363	
Vanadium	V	mg/l	0,00002	0,00003	0,00005	0,00003	0,00001	<0,00001	<0,00001	<0,00001		0,00002	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	<0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0097					0,0102				0,0102	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	0,0001					0,0001				<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	0,00001					<0,00001				<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0113					0,0115				0,011	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

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Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	1000	966	999	997	999	1001	1000	1010	1007	1001	1011
pH	pH	No unit	6,59	6,99	6,36	6,64	6,50	6,76	6,28	7,32	6,80	6,66	6,31
Alkalinité	Alkalinité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Conductivité	Conductivité	µS/cm	3	10	5	3	3	4	2	5	3	3	2
Acidité	Acidité	$mgCaCO_3/l$			2				2				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,018				0,01				0,015
Arsenic	As	mg/l			0,0061				0,005				0,0052
Baryum	Ba	mg/l			<0,00008				<0,00008				<0,00008
Beryllium	Be	mg/l			<0,000007				<0,000007				0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				0,00002
Calcium	Ca	mg/l			0,44				0,43				0,36
Cadmium	Cd	mg/l			0,000004				0,000004				0,000004
Cobalt	Co	mg/l			0,000022				0,000007				0,000013
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,074				0,068				0,068
Lithium	Li	mg/l			0,0046				0,0047				0,0054
Magnésium	Mg	mg/l			0,008				0,008				0,008
Manganese	Mn	mg/l			0,0483				0,0463				0,047
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,07				0,05
Nickel	Ni	mg/l			0,0003				<0,0001				0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				0,00018
Antimoine	Sb	mg/l			0,0063				0,0049				0,004
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				0,00007
Strontium	Sr	mg/l			0,00074				0,00074				0,0007
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000032				0,000026				0,00003
Uranium	U	mg/l			0,000395				0,000292				0,000267
Vanadium	V	mg/l			0,00002				<0,00001				<0,00001
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0095				0,0096				0,0101
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00002				0,00002				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0108				0,0097				0,0123
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	967	1006	1009	985	1013	1008	999	1014	1012	1046	1043
pH	pH	No unit	6,50	6,49	6,47	5,84	6,50	6,54	6,67	6,43	6,67	6,32	6,60
Alkalinité	Alkalinité	$mgCaCO_3/l$				<2,0				<2,0			
Conductivité	Conductivité	µS/cm	3	3	3	2	3	3	3	2	3	4	4
Acidité	Acidité	$mgCaCO_3/l$				<2,0				2			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				<2,0				<2,0			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,011				0,013			
Arsenic	As	mg/l				0,0049				0,0045			
Baryum	Ba	mg/l				<0,00008				<0,00008			
Beryllium	Be	mg/l				<0,000007				0,000008			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				<0,00001				<0,00001			
Calcium	Ca	mg/l				0,33				0,31			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				<0,000004				0,000016			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,065				0,066			
Lithium	Li	mg/l				0,0060				0,0058			
Magnésium	Mg	mg/l				0,007				0,007			
Manganese	Mn	mg/l				0,0503				0,0511			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,08				0,06			
Nickel	Ni	mg/l				<0,0001				0,0006			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				0,0045				0,0045			
Sélénium	Se	mg/l				<0,00004				<0,00004			
Etain	Sn	mg/l				0,00016				<0,00006			
Strontium	Sr	mg/l				0,00064				0,00057			
Titane	Ti	mg/l				0,00011				<0,0001			
Thallium	Th	mg/l				0,000020				0,000041			
Uranium	U	mg/l				0,000200				0,000128			
Vanadium	V	mg/l				0,00001				<0,00001			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0089				0,0116			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0089				0,0103			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1037	1018
pH	pH	No unit	6,57	7,16
Alkalinité	Alkalinité	mg$CaCO_3$/l	<2,0	
Conductivité	Conductivité	µS/cm	2	3
Acidité	Acidité	mg$CaCO_3$/l	3	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,077	
Arsenic	As	mg/l	0,0034	
Baryum	Ba	mg/l	0,00038	
Beryllium	Be	mg/l	0,000011	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	<0,00001	
Calcium	Ca	mg/l	0,35	
Cadmium	Cd	mg/l	0,000003	
Cobalt	Co	mg/l	0,000054	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,089	
Lithium	Li	mg/l	0,0049	
Magnésium	Mg	mg/l	0,013	
Manganese	Mn	mg/l	0,0481	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,08	
Nickel	Ni	mg/l	0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	0,0049	
Sélénium	Se	mg/l	<0,00004	
Etain	Sn	mg/l	0,00012	
Strontium	Sr	mg/l	0,00185	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000065	
Uranium	U	mg/l	0,000087	
Vanadium	V	mg/l	0,00001	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	<0,00001	
Césium (total)	Cs	mg/l	0,0143	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	<0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	<0,00001	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0137	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-74

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1041	1049	1029	1032	996	953	1000	999	1011	1000	953
pH	pH	No unit	6,74	6,54	6,31	6,14	6,48	6,72	6,32	6,98	6,71	7,08	6,23
Alkalinité	Alkalinité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Conductivité	Conductivité	µS/cm	3	3	3	6	2	4	<2,0	2	2	2	<2,0
Acidité	Acidité	$mgCaCO_3/l$			2				4				2
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,019				0,026				0,026
Arsenic	As	mg/l			0,0037				0,0034				0,0034
Baryum	Ba	mg/l			<0,00008				<0,00008				0,00021
Beryllium	Be	mg/l			0,000014				0,000008				<0,000007
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			<0,00001				<0,00001				<0,00001
Calcium	Ca	mg/l			0,24				0,25				0,20
Cadmium	Cd	mg/l			0,000004				0,000004				<0,000003
Cobalt	Co	mg/l			0,000012				0,000007				0,000005
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,058				0,056				0,053
Lithium	Li	mg/l			0,0039				0,0041				0,0039
Magnésium	Mg	mg/l			0,007				0,006				0,005
Manganese	Mn	mg/l			0,0440				0,0386				0,0298
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,05				0,06				0,06
Nickel	Ni	mg/l			<0,0001				<0,0001				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0037				0,0035				0,0030
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00051				0,00073				0,00152
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000030				0,000032				0,000034
Uranium	U	mg/l			0,000110				0,000140				0,000220
Vanadium	V	mg/l			0,00002				<0,00001				0,00002
Tungstène	W	mg/l			<0,0002				<0,0002				0,00082
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0098				0,0089				0,0089
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			<0,0001				<0,0001				<0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00002				<0,00001				0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0091				0,0084				0,0072
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #0	Sem. #1	Sem. #2	Sem. #3	Sem. #4	Sem. #5	Sem. #6	Sem. #7	Sem. #8	Sem. #9	Sem. #10
			2023-04-27	2023-05-04	2023-05-11	2023-05-18	2023-05-25	2023-06-01	2023-06-08	2023-06-15	2023-06-22	2023-06-29	2023-07-06
Volume du lixiviat	V	mL	801	993	1009	985	968	995	994	998	974	986	960
pH	pH	No unit	8,67	8,03	8,00	7,88	7,52	7,43	7,05	7,31	7,36	7,33	7,46
Alkalinité	Alkalinité	$mgCaCO_3/l$	22	24	22	18	16	14	11	12	11	10	9
Conductivité	Conductivité	µS/cm	117	74	41	43	32	29	28	24	24	24	23
Acidité	Acidité	$mgCaCO_3/l$	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,
Fluoride	F	mg/l	0,42	0,34	0,24	0,12	0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l	0,13	0,04	0,09	0,04	0,06	<0,03	0,03	0,03	0,05	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	6	5	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,
Chlore	Cl^-	mg/l	27	11	1	<1,	<1,	<1,	<1,	<1,	<1,	<1,	<1,
Nitrite	NO_2^-	mgN/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	mgN/l	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Bromide	Br	mg/l	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3	<0,3
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,189	0,079	0,104	0,071	0,067	0,036	0,048	0,055	0,052	0,057	0,047
Arsenic	As	mg/l	0,0315	0,0813	0,0794	0,0499	0,0471	0,0248	0,0230	0,0220	0,0149	0,0147	0,0112
Baryum	Ba	mg/l	0,00026	0,00022	0,00027	0,00020	0,00026	0,00014	0,00015	0,00012	0,00032	0,00012	0,00011
Beryllium	Be	mg/l	0,000091	0,000148	0,000112	0,000061	0,000091	0,000054	0,000059	0,000058	0,000068	0,000058	0,000056
Bore	B	mg/l	0,035	0,059	0,032	0,020	0,016	0,010	0,008	0,007	0,006	0,005	0,004
Bismuth	Bi	mg/l	0,00034	0,00028	0,00023	0,00021	0,00016	0,00009	0,00012	0,00014	0,00017	0,00015	0,00015
Calcium	Ca	mg/l	4,45	4,11	3,29	3,60	4,27	4,08	3,67	3,86	3,79	3,63	3,30
Cadmium	Cd	mg/l	<0,000003	<0,000003	0,000004	0,000028	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000058	0,000063	0,000043	0,000034	0,000030	0,000035	0,000020	0,000026	0,000018	0,000018	0,000018
Chrome	Cr	mg/l	<0,00008	0,00022	<0,00008	0,00018	<0,00008	<0,00008	0,00010	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0021	0,0011	0,0007	0,0005	0,0005	0,0004	0,0011	0,0003	0,0002	0,0002	0,0006
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	0,018
Potassium	K	mg/l	3,81	2,85	2,24	1,87	1,91	1,53	1,29	1,24	1,09	0,977	0,854
Lithium	Li	mg/l	0,484	0,312	0,124	0,0755	0,0586	0,0382	0,0293	0,0245	0,0251	0,0245	0,0187
Magnésium	Mg	mg/l	0,313	0,290	0,245	0,233	0,270	0,269	0,234	0,234	0,222	0,211	0,196
Manganese	Mn	mg/l	0,00204	0,00523	0,00379	0,00343	0,00397	0,00474	0,00323	0,00350	0,00394	0,00344	0,00344
Molybdène	Mo	mg/l	0,00146	0,00142	0,00072	0,00087	0,00017	0,00083	0,00013	0,00008	0,00013	0,00017	0,00021
Sodium	Na	mg/l	13,9	10,3	4,34	2,18	1,43	0,95	0,62	0,57	0,45	0,38	0,28
Nickel	Ni	mg/l	0,0001	0,0002	0,0001	0,0002	0,0006	0,0002	<0,0001	0,0005	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00013	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0039	0,0188	0,0131	0,0096	0,0069	0,0204	0,0053	0,0054	0,0038	0,0042	0,0031
Sélénium	Se	mg/l	0,00008	0,00008	0,00024	<0,00004	0,00005	0,00006	0,00005	0,00007	0,00005	<0,00004	<0,00004
Etain	Sn	mg/l	0,00055	0,00046	0,00030	0,00016	0,00012	0,00007	0,00007	0,00008	<0,00006	<0,00006	0,00007
Strontium	Sr	mg/l	0,0159	0,0135	0,01087	0,0111	0,0136	0,0118	0,0112	0,01085	0,0103	0,01029	0,00886
Titane	Ti	mg/l	<0,00005	0,00006	<0,00005	0,00043	<0,00005	0,00007	<0,00005	<0,00005	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000171	0,000108	0,000096	0,000082	0,000074	0,000061	0,000060	0,000056	0,000049	0,000050	0,000042
Uranium	U	mg/l	0,000677	0,0113	0,018474	0,0123	0,00609	0,00446	0,00384	0,003308	0,00343	0,00446	0,004507
Vanadium	V	mg/l	0,00029	0,00042	0,00036	0,00028	0,00025	0,00016	0,00015	0,00017	0,00011	0,00014	0,00012
Tungstène	W	mg/l	0,00249	0,00636	0,00283	0,00127	0,00088	0,00034	0,00046	0,00039	0,00029	0,00070	0,00030
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00001	0,00001	<0,00001	0,00002	0,00001	0,00001	<0,00001	0,00002	<0,00001	<0,00001
Césium (total)	Cs	mg/l	0,0347	0,0266	0,0242	0,0233	0,0232	0,0160	0,0171	0,0152	0,0159	0,0137	0,0118
Dysprosium (total)	Dy	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Erbium (total)	Er	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Europium (total)	Eu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gallium (total)	Ga	mg/l	0,0008	0,0006	0,0006	0,0006	0,0005	0,0009	0,0004	0,0005	0,0003	0,0004	0,0003
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Indium (total)	In	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Iridium (total)	Ir	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lanthanum (total)	La	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Lutetium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Néodymium (total)	Nd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,115	0,0615	0,0491	0,0409	0,0418	0,0320	0,0273	0,0288	0,0258	0,0249	0,0212
Rhenium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thorium (total)	Th	mg/l	<0,0001	0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #11	Sem. #12	Sem. #13	Sem. #14	Sem. #15	Sem. #16	Sem. #17	Sem. #18	Sem. #19	Sem. #20	Sem. #21
			2023-07-13	2023-07-20	2023-07-27	2023-08-03	2023-08-10	2023-08-17	2023-08-24	2023-08-31	2023-09-07	2023-09-14	2023-09-21
Volume du lixiviat	V	mL	966	961	1011	939	923	951	935	971	890	954	968
pH	pH	No unit	7,22	7,40	7,24	7,24	7,55	7,40	7,28	7,46	7,04	7,06	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	9	8	7	8	6	6	12	5	7	7
Conductivité	Conductivité	µS/cm	17	20	18	17	15	14	15	17	14	15	17
Acidité	Acidité	$mgCaCO_3/l$	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,0
Fluoride	F	mg/l				<0,06	<0,06	<0,06		<0,06		<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,	<2,0	<2,0
Chlore	Cl^-	mg/l					<1,	<1,		<1,		<1,	
Nitrite	NO_2^-	mgN/l					<0,03	<0,03		<0,03		<0,03	
Nitrate	NO_3^-	mgN/l					<0,06	<0,06		<0,06		<0,06	
Bromide	Br	mg/l					<0,3	<0,3		<0,3		<0,3	
Mercure	Hg	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	0,00010	<0,00005
Aluminum	Al	mg/l	0,207	0,043	0,039	0,048	0,049	0,050	0,058	0,038	0,115	0,048	0,037
Arsenic	As	mg/l	0,0115	0,0092	0,0098	0,0077	0,0068	0,0061	0,0062	0,0080	0,0069	0,0057	0,0051
Baryum	Ba	mg/l	0,00045	0,00010	0,00009	0,00014	0,00024	0,00011	0,00011	0,00015	0,00033	0,00014	0,00015
Beryllium	Be	mg/l	0,000527	0,000054	0,000032	0,000064	0,000044	0,000057	0,000100	0,000057	0,000233	0,000049	<0,000102
Bore	B	mg/l	0,004	0,003	0,003	0,003	0,002	0,002	0,002	0,003	0,002	0,002	<0,002
Bismuth	Bi	mg/l	0,00007	0,00011	0,00010	0,00011	0,00012	0,00016	0,00015	0,00010	0,00021	0,00013	<0,0001
Calcium	Ca	mg/l	2,53	2,92	2,73	2,70	2,50	2,22	2,44	2,96	1,96	2,52	2,87
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000040	0,000020	0,000039	0,000030	0,000035	0,000016	0,000017	0,000007	0,000025	0,000016	0,000009
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00059	0,00050	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0002	<0,0002	0,0015	0,0008	0,0004	0,0003	0,0002	0,0002	0,0004	<0,0002	<0,0002
Fer	Fe	mg/l	0,019	<0,007	<0,007	0,048	<0,007	<0,007	<0,007	<0,007	0,008	<0,007	0,008
Potassium	K	mg/l	0,763	0,691	0,549	0,630	0,606	0,508	0,528	0,544	0,514	0,527	0,443
Lithium	Li	mg/l	0,0197	0,0155	0,0126	0,0128	0,0121	0,0114	0,0129	0,0126	0,0114	0,0122	0,0128
Magnésium	Mg	mg/l	0,180	0,178	0,140	0,153	0,138	0,118	0,136	0,162	0,123	0,149	0,157
Manganese	Mn	mg/l	0,00348	0,00259	0,00465	0,00345	0,00224	0,00200	0,00219	0,00214	0,00229	0,00190	0,00208
Molybdène	Mo	mg/l	0,00005	0,00012	0,00035	0,00015	0,00009	0,00042	0,00267	0,00012	0,00010	0,00021	0,00046
Sodium	Na	mg/l	0,23	0,22	0,18	0,22	0,19	0,16	0,16	0,18	0,18	0,14	0,15
Nickel	Ni	mg/l	0,0005	0,0001	0,0015	0,0011	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00018	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0031	0,0028	0,0030	0,0024	0,0018	0,0019	0,0020	0,0025	0,0019	0,0020	0,0017
Sélénium	Se	mg/l	0,00005	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	0,00004
Etain	Sn	mg/l	0,00039	<0,00006	0,00009	0,00007	<0,00006	<0,00006	0,00008	<0,00006	0,00039	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00669	0,00776	0,00739	0,00697	0,00666	0,00563	0,00616	0,00757	0,00493	0,00667	0,0073
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000096	0,000042	0,000033	0,000032	0,000033	0,000028	0,000036	0,000031	0,000050	0,000028	0,000032
Uranium	U	mg/l	0,000840	0,00402	0,00432	0,00217	0,00163	0,00170	0,00260	0,00180	0,00117	0,00212	0,00355
Vanadium	V	mg/l	0,00009	0,00009	0,00008	0,00008	0,00008	0,00010	0,00008	0,00010	0,00008	0,00007	0,00008
Tungstène	W	mg/l	0,00028	0,00021	0,00021	0,00016	0,00013	0,00043	0,00016	0,00027	0,00009	0,00012	0,00013
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002
Gold (total)	Au	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Cérium (total)	Ce	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Césium (total)	Cs	mg/l					0,0095	0,0093		0,0092		0,0089	
Dysprosium (total)	Dy	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Erbium (total)	Er	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Europium (total)	Eu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Gallium (total)	Ga	mg/l					0,0002	0,0002		0,0002		0,0003	
Gadolinium (total)	Gd	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Germanium (total)	Ge	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Hafnium (total)	Hf	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Holmium (total)	Ho	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Indium (total)	In	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Iridium (total)	Ir	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lanthanum (total)	La	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Lutetium (total)	Lu	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Niobium (total)	Nb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Néodymium (total)	Nd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Osmium (total)	Os	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Palladium (total)	Pd	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Praseodymium (total)	Pr	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Platinum (total)	Pt	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rubidium (total)	Rb	mg/l					0,0170	0,0151		0,0148		0,0145	
Rhenium (total)	Re	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Rhodium (total)	Rh	mg/l					<0,00001	<0,00001		<0,00001		<0,00001	
Scandium (total)	Sc	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Samarium (total)	Sm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tantalum (total)	Ta	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Terbium (total)	Tb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Tellurium (total)	Te	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thorium (total)	Th	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Thulium (total)	Tm	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	
Ytterbium (total)	Yb	mg/l					<0,0001	<0,0001		<0,0001		<0,0001	

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #22	Sem. #23	Sem. #24	Sem. #25	Sem. #26	Sem. #27	Sem. #28	Sem. #29	Sem. #30	Sem. #31	Sem. #32
			2023-09-28	2023-10-05	2023-10-12	2023-10-19	2023-10-26	2023-11-02	2023-11-09	2023-11-16	2023-11-23	2023-11-30	2023-12-07
Volume du lixiviat	V	mL	933	948	1010	960	997	983	934	955	982	1003	1001
pH	pH	No unit	7,26	7,05	7,34	7,26	7,11	7,13	7,07	7,13	7,02	6,89	7,04
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	6	8	16	8	6	6	5	6	6	6
Conductivité	Conductivité	µS/cm	13	13	18	29	16	13	10	13	12	13	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l				0,06					<0,06		
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	0,04	0,28	<0,03	<0,03	0,04	0,04	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	2	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l				1					<1,0		
Nitrite	NO_2^-	mgN/l				0,03					<0,03		
Nitrate	NO_3^-	mgN/l				0,06					<0,06		
Bromide	Br	mg/l				0,3					<0,3		
Mercure	Hg	mg/l				0,00001					<0,00001		
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,082	0,059	0,042	0,097	0,031	0,032	0,073	0,077	0,041	0,035	0,039
Arsenic	As	mg/l	0,0055	0,0043	0,005	0,0049	0,0029	0,0040	0,0029	0,0037	0,0031	0,0028	0,0026
Baryum	Ba	mg/l	0,00014	0,00008	0,00009	0,00014	0,00026	<0,00008	0,00011	0,00018	0,00018	0,00009	<0,00008
Beryllium	Be	mg/l	0,000138	0,000083	0,000089	<0,000123	0,000057	0,000027	0,000208	0,000106	0,000085	0,000059	0,000051
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00016	0,00015	0,0001	<0,00016	0,0001	0,00008	0,00015	0,00015	0,0001	0,00009	0,00008
Calcium	Ca	mg/l	2,16	1,99	2,91	5,48	2,04	2,26	1,86	1,78	2,3	2,32	1,84
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000005	0,000003	<0,000003	<0,000003	<0,000003	0,000005	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000020	0,000009	0,000014	0,000026	0,000053	0,000012	0,000013	0,000025	0,000032	0,000010	0,000011
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	0,00025	<0,00008	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,0003	0,001	0,0004	0,0022	<0,0002	<0,0002	0,0005	0,0003	<0,0002	<0,0002	0,0002
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,441	0,398	0,437	0,559	0,34	0,326	0,322	0,286	0,335	0,303	0,247
Lithium	Li	mg/l	0,0104	0,0097	0,0111	0,0116	0,0066	0,0068	0,0081	0,0068	0,0082	0,0081	0,0070
Magnésium	Mg	mg/l	0,126	0,115	0,156	0,209	0,108	0,116	0,1	0,104	0,127	0,120	0,093
Manganese	Mn	mg/l	0,00182	0,00143	0,00214	0,0069	0,00198	0,00194	0,00185	0,00206	0,00188	0,00168	0,00153
Molybdène	Mo	mg/l	0,00031	0,00023	0,0003	0,00043	0,00016	0,00008	0,0001	0,00006	0,00008	0,00019	0,00029
Sodium	Na	mg/l	0,13	0,12	0,12	0,17	0,23	0,10	0,17	0,09	0,09	0,08	0,10
Nickel	Ni	mg/l	<0,0001	<0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0003	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00024	0,00012	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0018	<0,0015	0,0017	0,0017	0,0011	0,0016	<0,0009	0,001	0,0013	0,0012	<0,0009
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00004	0,00011	<0,00004	<0,00004	<0,00004	<0,00004	0,00005	<0,00004
Etain	Sn	mg/l	<0,00012	<0,00014	0,00006	0,00018	<0,00006	<0,00006	<0,00006	0,00013	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00554	0,00506	0,00795	0,0112	0,0052	0,00525	0,00409	0,00493	0,00534	0,00561	0,00482
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007	<0,00007
Thallium	Th	mg/l	0,000040	0,000031	0,00003	0,000043	0,000043	0,000021	0,000026	0,000037	0,000033	0,000023	0,000019
Uranium	U	mg/l	0,00169	0,00117	0,0023	0,00823	0,00347	0,00141	0,000839	0,00234	0,000969	0,00456	0,00107
Vanadium	V	mg/l	0,00007	0,00006	0,00007	0,00017	0,00001	0,00006	0,00008	0,00005	0,00008	0,00005	0,00005
Tungstène	W	mg/l	0,00008	0,00008	0,00011	0,00008	0,00007	0,00006	0,00006	0,00006	0,00006	0,00006	0,00005
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00003	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l				<0,00001					<0,00001		
Cérium (total)	Ce	mg/l				<0,00001					<0,00001		
Césium (total)	Cs	mg/l				0,0130					0,0061		
Dysprosium (total)	Dy	mg/l				<0,0001					<0,0001		
Erbium (total)	Er	mg/l				<0,0001					<0,0001		
Europium (total)	Eu	mg/l				<0,0001					<0,0001		
Gallium (total)	Ga	mg/l				0,0003					0,0002		
Gadolinium (total)	Gd	mg/l				<0,00001					<0,00001		
Germanium (total)	Ge	mg/l				<0,0001					<0,0001		
Hafnium (total)	Hf	mg/l				<0,0001					<0,0001		
Holmium (total)	Ho	mg/l				<0,0001					<0,0001		
Indium (total)	In	mg/l				<0,0001					<0,0001		
Iridium (total)	Ir	mg/l				<0,0001					<0,0001		
Lanthanum (total)	La	mg/l				<0,0001					<0,0001		
Lutetium (total)	Lu	mg/l				<0,0001					<0,0001		
Niobium (total)	Nb	mg/l				<0,0001					<0,0001		
Néodymium (total)	Nd	mg/l				<0,0001					<0,0001		
Osmium (total)	Os	mg/l				<0,0001					<0,0001		
Palladium (total)	Pd	mg/l				<0,0001					<0,0001		
Praseodymium (total)	Pr	mg/l				<0,0001					<0,0001		
Platinum (total)	Pt	mg/l				<0,0001					<0,0001		
Rubidium (total)	Rb	mg/l				0,0182					0,0103		
Rhenium (total)	Re	mg/l				<0,0001					<0,0001		
Rhodium (total)	Rh	mg/l				<0,00001					<0,00001		
Scandium (total)	Sc	mg/l				<0,0001					<0,0001		
Samarium (total)	Sm	mg/l				<0,0001					<0,0001		
Tantalum (total)	Ta	mg/l				<0,0001					<0,0001		
Terbium (total)	Tb	mg/l				<0,0001					<0,0001		
Tellurium (total)	Te	mg/l				<0,0001					<0,0001		
Thorium (total)	Th	mg/l				<0,0001					<0,0001		
Thulium (total)	Tm	mg/l				<0,0001					<0,0001		
Ytterbium (total)	Yb	mg/l				<0,0001					<0,0001		

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #33	Sem. #34	Sem. #35	Sem. #36	Sem. #37	Sem. #38	Sem. #39	Sem. #40	Sem. #41	Sem. #42	Sem. #43
			2023-12-14	2023-12-21	2023-12-28	2024-01-04	2024-01-11	2024-01-18	2024-01-25	2024-02-01	2024-02-08	2024-02-15	2024-02-22
Volume du lixiviat	V	mL	972	1000	1002	908	982	1007	987	996	1007	996	1009
pH	pH	No unit	7,12	7,15	7,18	7,21	7,22	7,04	7,12	7,22	7,23	7,27	7,19
Alkalinité	Alkalinité	$mgCaCO_3/l$	5	8	6	6	5	8	5	7	6	7	6
Conductivité	Conductivité	µS/cm	12	17	18	16	12	16	13	16	14	16	18
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l	<0,06		<0,06					<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l	***		<1,0					<1,0			
Nitrite	NO_2^-	mgN/l	***		<0,03					<0,03			
Nitrate	NO_3^-	mgN/l	***		<0,06					<0,06			
Bromide	Br	mg/l	***		<0,3					<0,3			
Mercure	Hg	mg/l	***		<0,00001					<0,00001			
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,029	0,028	0,029	0,040	0,042	0,031	0,039	0,032	0,028	0,026	0,027
Arsenic	As	mg/l	0,0025	0,0029	0,0035	0,0027	0,0035	0,0025	0,0028	0,0026	0,0026	0,0025	0,0032
Baryum	Ba	mg/l	0,00011	0,00009	<0,00008	<0,00008	0,00022	<0,00008	0,00011	0,00010	<0,00008	<0,00008	<0,00008
Beryllium	Be	mg/l	0,000042	0,000032	0,000103	0,000067	0,000051	0,000044	0,000040	0,000042	0,000026	0,000022	0,000029
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00007	0,00007	0,00007	0,00010	0,00008	0,00008	0,00010	0,00007	0,00009	0,00008	0,00009
Calcium	Ca	mg/l	2,27	2,89	2,99	2,04	2,22	2,68	2,51	2,93	2,54	2,35	2,58
Cadmium	Cd	mg/l	0,000003	<0,000003	0,000003	<0,000003	0,000006	<0,000003	<0,000003	0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000035	0,000012	0,000012	<0,000004	0,000087	0,000016	0,000013	0,000004	0,000013	0,000007	0,000006
Chrome	Cr	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00008	<0,00008	<0,00008	0,00009
Cuivre	Cu	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,002	<0,002	<0,002	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,011	<0,007	0,012	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,253	0,273	0,259	0,249	0,255	0,248	0,261	0,259	0,205	0,184	0,186
Lithium	Li	mg/l	0,0073	0,0074	0,0073	0,0078	0,0098	0,0069	0,0068	0,0066	0,0060	0,0053	0,0059
Magnésium	Mg	mg/l	0,109	0,121	0,124	0,093	0,105	0,109	0,098	0,112	0,082	0,081	0,084
Manganese	Mn	mg/l	0,00150	0,00162	0,00166	0,00113	0,00130	0,00133	0,00108	0,00120	0,00108	0,00081	0,00088
Molybdène	Mo	mg/l	0,00206	0,00009	0,00408	0,00007	0,00012	0,00044	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,09	0,15	0,09	0,10	0,09	0,07	0,06	0,13	0,07	0,08	0,08
Nickel	Ni	mg/l	<0,0001	0,0001	0,0001	<0,0001	0,0007	<0,0001	0,0001	0,0002	0,0001	<0,0001	0,0001
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00014	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0010	0,0012	0,0014	<0,0009	0,0012	0,0011	0,0010	0,0011	0,0011	0,001	0,001
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00005	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	0,00009	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00582	0,00628	0,00703	0,00440	0,00495	0,00606	0,00548	0,00603	0,00552	0,00522	0,00558
Titane	Ti	mg/l	<0,00007	<0,00007	<0,00007	<0,00007	0,00014	<0,00007	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000021	0,000017	0,000016	0,000012	0,000016	0,000018	0,000023	0,000014	0,000016	0,000016	0,000017
Uranium	U	mg/l	0,00186	0,00160	0,00142	0,000979	0,000885	0,00200	0,00189	0,00125	0,00357	0,00124	0,00893
Vanadium	V	mg/l	0,00004	0,00005	0,00006	0,00004	0,00002	0,00006	0,00005	0,00005	0,00004	0,00004	0,00005
Tungstène	W	mg/l	0,00005	0,00006	0,00007	0,00003	0,00003	0,00005	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l			<0,00001					<0,00001			
Cérium (total)	Ce	mg/l			<0,00001					<0,00001			
Césium (total)	Cs	mg/l			0,0060					0,0062			
Dysprosium (total)	Dy	mg/l			<0,0001					<0,00001			
Erbium (total)	Er	mg/l			<0,0001					<0,00001			
Europium (total)	Eu	mg/l			<0,0001					<0,00001			
Gallium (total)	Ga	mg/l			0,0002					0,0002			
Gadolinium (total)	Gd	mg/l			<0,00001					<0,00001			
Germanium (total)	Ge	mg/l			<0,0001					<0,0001			
Hafnium (total)	Hf	mg/l			<0,0001					<0,0001			
Holmium (total)	Ho	mg/l			<0,0001					<0,00001			
Indium (total)	In	mg/l			<0,0001					<0,00001			
Iridium (total)	Ir	mg/l			<0,0001					<0,00001			
Lanthanum (total)	La	mg/l			<0,0001					<0,00001			
Lutetium (total)	Lu	mg/l			<0,0001					<0,0001			
Niobium (total)	Nb	mg/l			<0,0001					<0,00001			
Néodymium (total)	Nd	mg/l			<0,0001					<0,00001			
Osmium (total)	Os	mg/l			<0,0001					<0,0001			
Palladium (total)	Pd	mg/l			<0,0001					<0,0001			
Praseodymium (total)	Pr	mg/l			<0,0001					<0,00001			
Platinum (total)	Pt	mg/l			<0,0001					<0,0001			
Rubidium (total)	Rb	mg/l			0,0089					0,0088			
Rhenium (total)	Re	mg/l			<0,0001					<0,0001			
Rhodium (total)	Rh	mg/l			<0,00001					<0,00001			
Scandium (total)	Sc	mg/l			<0,0001					<0,0001			
Samarium (total)	Sm	mg/l			<0,0001					<0,00001			
Tantalum (total)	Ta	mg/l			<0,0001					<0,0001			
Terbium (total)	Tb	mg/l			<0,0001					<0,00001			
Tellurium (total)	Te	mg/l			<0,0001					<0,0001			
Thorium (total)	Th	mg/l			<0,0001					<0,0001			
Thulium (total)	Tm	mg/l			<0,0001					<0,00001			
Ytterbium (total)	Yb	mg/l			<0,0001					<0,00001			

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #44	Sem. #45	Sem. #46	Sem. #47	Sem. #48	Sem. #49	Sem. #50	Sem. #51	Sem. #52	Sem. #53	Sem. #54
			2024-02-29	2024-03-07	2024-03-14	2024-03-21	2024-03-28	2024-04-04	2024-04-11	2024-04-18	2024-04-25	2024-05-02	2024-05-09
Volume du lixiviat	V	mL	1015	1010	978	975	910	1001	937	997	1006	1000	981
pH	pH	No unit	7,16	7,30	7,21	7,10	7,35	7,30	7,13	7,06	7,34	7,30	7,05
Alkalinité	Alkalinité	$mgCaCO_3/l$	7	8	7	6	6	8	5	7	8	4	5
Conductivité	Conductivité	µS/cm	15	14	13	13	10	13	11	16	15	10	11
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F	mg/l		<0,06					<0,06				
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Chlore	Cl^-	mg/l		<1,0					<1,0				
Nitrite	NO_2^-	mgN/l		<0,03					<0,03				
Nitrate	NO_3^-	mgN/l		<0,06					<0,06				
Bromide	Br	mg/l		<0,3					<0,3				
Mercure	Hg	mg/l		<0,00001					<0,00001				
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,028	0,026	0,031	0,026	0,044	0,027	0,045	0,026	0,026	0,034	0,036
Arsenic	As	mg/l	0,0024	0,0023	0,0018	0,0022	0,0017	0,0026	0,0018	0,0021	0,0019	0,0015	0,0018
Baryum	Ba	mg/l	0,00012	0,00015	<0,00008	<0,00008	0,00008	0,00008	0,00009	<0,00008	<0,00008	0,00012	<0,00008
Beryllium	Be	mg/l	0,000056	0,000033	0,000071	0,000017	0,000060	0,000030	0,000061	0,000028	0,000022	0,000033	0,000143
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Bismuth	Bi	mg/l	0,00009	0,00007	0,00006	0,00008	0,00009	0,00008	0,00009	0,00008	0,00007	0,00008	0,00008
Calcium	Ca	mg/l	2,58	2,55	2,08	2,37	1,60	2,26	2,00	2,60	2,63	1,96	2,15
Cadmium	Cd	mg/l	<0,000003	0,000003	0,000074	<0,000003	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	<0,000003
Cobalt	Co	mg/l	0,000010	0,00001	0,000019	0,000008	0,000011	0,000011	0,000015	0,000005	0,000035	0,000013	0,000008
Chrome	Cr	mg/l	0,00011	0,00015	<0,00008	<0,00008	<0,00008	0,00009	<0,00008	0,00010	<0,00008	0,00010	0,00010
Cuivre	Cu	mg/l	<0,001	<0,001	0,006	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	0,009	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	0,189	0,199	0,156	0,180	0,159	0,159	0,176	0,190	0,151	0,161	0,168
Lithium	Li	mg/l	0,0058	0,0051	0,0051	0,0047	0,0044	0,0049	0,0051	0,0052	0,0051	0,0052	0,0051
Magnésium	Mg	mg/l	0,089	0,082	0,077	0,077	0,060	0,076	0,069	0,085	0,073	0,064	0,072
Manganese	Mn	mg/l	0,00089	0,00095	0,00088	0,0010	0,00067	0,00068	0,00075	0,00059	0,00061	0,00096	0,00063
Molybdène	Mo	mg/l	<0,0004	0,0006	0,0351	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	0,06	0,06	0,07	0,06	0,07	0,07	0,06	0,07	0,06	0,07	0,06
Nickel	Ni	mg/l	0,0001	0,0002	0,0002	0,0002	0,0002	0,0001	<0,0001	<0,0001	0,0002	0,0002	<0,0001
Plomb	Pb	mg/l	0,00009	<0,00009	0,0004	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,001	0,0009	<0,0009	<0,0009	<0,0009	0,0011	<0,0009	<0,0009	<0,0009	<0,0009	0,0010
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004
Etain	Sn	mg/l	<0,00006	<0,00006	0,00068	<0,00006	<0,00006	0,00021	<0,00006	<0,00006	0,00010	<0,00006	<0,00006
Strontium	Sr	mg/l	0,00586	0,00529	0,00446	0,00449	0,00321	0,00453	0,00400	0,00505	0,00472	0,00362	0,00408
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000016	0,000015	0,000014	0,000014	0,000016	0,000013	0,000015	0,000014	0,000014	0,000012	0,000016
Uranium	U	mg/l	0,00122	0,000907	0,000823	0,000842	0,000667	0,000930	0,000704	0,000907	0,000912	0,000633	0,000689
Vanadium	V	mg/l	0,00009	0,00005	0,00003	0,00003	0,00003	0,00004	0,00004	0,00003	0,00003	0,00004	0,00005
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	0,003	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l		<0,00001					<0,00001				
Cérium (total)	Ce	mg/l		<0,00001					<0,00001				
Césium (total)	Cs	mg/l		0,0052					0,0045				
Dysprosium (total)	Dy	mg/l		<0,00001					<0,00001				
Erbium (total)	Er	mg/l		<0,00001					<0,00001				
Europium (total)	Eu	mg/l		<0,00001					<0,00001				
Gallium (total)	Ga	mg/l		0,0001					0,0001				
Gadolinium (total)	Gd	mg/l		<0,00001					<0,00001				
Germanium (total)	Ge	mg/l		<0,0001					<0,0001				
Hafnium (total)	Hf	mg/l		<0,0001					<0,0001				
Holmium (total)	Ho	mg/l		<0,00001					<0,00001				
Indium (total)	In	mg/l		<0,00001					<0,00001				
Iridium (total)	Ir	mg/l		<0,00001					<0,00001				
Lanthanum (total)	La	mg/l		<0,00001					<0,00001				
Lutetium (total)	Lu	mg/l		<0,0001					<0,0001				
Niobium (total)	Nb	mg/l		<0,00001					<0,00001				
Néodymium (total)	Nd	mg/l		<0,00001					<0,00001				
Osmium (total)	Os	mg/l		<0,0001					<0,0001				
Palladium (total)	Pd	mg/l		<0,0001					<0,0001				
Praseodymium (total)	Pr	mg/l		<0,00001					<0,00001				
Platinum (total)	Pt	mg/l		<0,0001					<0,0001				
Rubidium (total)	Rb	mg/l		0,007					0,007				
Rhenium (total)	Re	mg/l		<0,0001					<0,0001				
Rhodium (total)	Rh	mg/l		<0,00001					<0,00001				
Scandium (total)	Sc	mg/l		<0,0001					<0,0001				
Samarium (total)	Sm	mg/l		<0,00001					<0,00001				
Tantalum (total)	Ta	mg/l		<0,0001					<0,0001				
Terbium (total)	Tb	mg/l		<0,00001					<0,00001				
Tellurium (total)	Te	mg/l		<0,0001					<0,0001				
Thorium (total)	Th	mg/l		<0,0001					<0,0001				
Thulium (total)	Tm	mg/l		<0,00001					<0,00001				
Ytterbium (total)	Yb	mg/l		<0,00001					<0,00001				

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #55	Sem. #56	Sem. #57	Sem. #58	Sem. #59	Sem. #60	Sem. #61	Sem. #62	Sem. #63	Sem. #64	Sem. #65
			2024-05-16	2024-05-23	2024-05-30	2024-06-06	2024-06-13	2024-06-20	2024-06-27	2024-07-04	2024-07-11	2024-07-18	2024-07-25
Volume du lixiviat	V	mL	991	1000	1023	1000	995	980	975	923	944	944	965
pH	pH	No unit	7,06	7,21	7,02	7,19	7,18	7,07	7,46	7,17	7,41	7,04	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$	4	6	6	6	5	5	4	4		5	
Conductivité	Conductivité	µS/cm	11	12	11	12	11	12	9	9	10	9	12
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Fluoride	F	mg/l	<0,06					<0,06				<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	0,03	<0,03		<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0		<2,0	
Chlore	Cl^-	mg/l	<1,0					<1,0				<1,0	
Nitrite	NO_2^-	mgN/l	<0,03					<0,03				<0,03	
Nitrate	NO_3^-	mgN/l	<0,06					<0,06				<0,06	
Bromide	Br	mg/l	<0,3					<0,3				<0,3	
Mercure	Hg	mg/l	<0,00001					<0,00001				<0,00001	
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005		<0,00005	
Aluminum	Al	mg/l	0,028	0,026	0,019	0,033	0,034	0,029	0,041	0,196		0,052	
Arsenic	As	mg/l	0,0015	0,0016	0,0014	0,0016	0,0015	0,0014	0,0014	0,0016		0,0015	
Baryum	Ba	mg/l	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	0,00011	<0,00008	0,00047		0,0001	
Beryllium	Be	mg/l	0,000024	0,000013	0,000026	0,000039	0,000025	0,000038	0,000124	0,000411		0,000135	
Bore	B	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Bismuth	Bi	mg/l	0,00006	0,00006	0,00005	0,00006	0,00006	0,00010	0,00006	0,00021		0,00009	
Calcium	Ca	mg/l	2,24	2,30	2,08	2,46	2,02	1,96	1,62	1,54		1,68	
Cadmium	Cd	mg/l	<0,000003	<0,000003	<0,000003	<0,000003	0,000007	0,000003	<0,000003	0,000006		<0,000003	
Cobalt	Co	mg/l	0,000017	0,000019	0,000009	0,000011	0,000010	0,000013	0,000010	0,000051		0,000024	
Chrome	Cr	mg/l	<0,00008	<0,00008	0,00013	0,00013	0,00008	<0,00008	<0,00008	<0,00008		<0,00008	
Cuivre	Cu	mg/l	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001		<0,001	
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	0,019	<0,007	<0,007	0,014		<0,007	
Potassium	K	mg/l	0,157	0,154	0,140	0,180	0,159	0,149	0,143	0,218		0,198	
Lithium	Li	mg/l	0,0051	0,0046	0,0045	0,0054	0,0047	0,0047	0,0046	0,0061		0,005	
Magnésium	Mg	mg/l	0,066	0,109	0,066	0,072	0,066	0,070	0,053	0,065		0,061	
Manganese	Mn	mg/l	0,00065	0,00061	0,00057	0,00064	0,00071	0,00069	0,00076	0,00177		0,00122	
Molybdène	Mo	mg/l	<0,0004	<0,0004	<0,0004	0,0011	0,0233	<0,0004	<0,0004	<0,0004		0,0010	
Sodium	Na	mg/l	0,08	0,05	0,07	0,07	0,08	0,07	0,05	0,10		0,10	
Nickel	Ni	mg/l	<0,0001	0,0004	0,0002	0,0002	0,0001	0,0003	0,0001	0,0002		0,0001	
Plomb	Pb	mg/l	<0,00009	<0,00009	<0,00009	0,00016	<0,00009	<0,00009	<0,00009	0,00009		<0,00009	
Antimoine	Sb	mg/l	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009	<0,0009		<0,0009	
Sélénium	Se	mg/l	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004	<0,00004		<0,00004	
Etain	Sn	mg/l	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	<0,00006	0,00012	0,00037		0,00006	
Strontium	Sr	mg/l	0,00431	0,00446	0,00356	0,00430	0,00378	0,00387	0,00319	0,00290		0,00315	
Titane	Ti	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001		<0,0001	
Thallium	Th	mg/l	0,000016	0,000013	0,000011	0,000011	0,000018	0,000014	0,000017	0,000066		0,000023	
Uranium	U	mg/l	0,000744	0,000781	0,000651	0,000711	0,000577	0,000632	0,000486	0,000459		0,000477	
Vanadium	V	mg/l	0,00004	0,00006	0,00006	0,00006	0,00004	0,00003	0,00003	0,00001		0,00003	
Tungstène	W	mg/l	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002	<0,0002		<0,0002	
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002		<0,00002	
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002		<0,002	
Gold (total)	Au	mg/l	<0,00001					<0,00001				<0,00001	
Cérium (total)	Ce	mg/l	<0,00001					<0,00001				<0,00001	
Césium (total)	Cs	mg/l	0,0042					0,0040				0,0043	
Dysprosium (total)	Dy	mg/l	<0,00001					<0,00001				<0,00001	
Erbium (total)	Er	mg/l	<0,00001					<0,00001				<0,00001	
Europium (total)	Eu	mg/l	<0,00001					<0,00001				<0,00001	
Gallium (total)	Ga	mg/l	0,0001					0,0001				0,0002	
Gadolinium (total)	Gd	mg/l	<0,00001					<0,00001				<0,00001	
Germanium (total)	Ge	mg/l	<0,0001					<0,0001				<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001					<0,0001				<0,0001	
Holmium (total)	Ho	mg/l	<0,00001					<0,00001				<0,00001	
Indium (total)	In	mg/l	<0,00001					<0,00001				<0,00001	
Iridium (total)	Ir	mg/l	<0,00001					<0,00001				<0,00001	
Lanthanum (total)	La	mg/l	<0,00001					<0,00001				<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001					<0,0001				<0,0001	
Niobium (total)	Nb	mg/l	0,00003					0,00001				0,00001	
Néodymium (total)	Nd	mg/l	<0,00001					<0,00001				<0,00001	
Osmium (total)	Os	mg/l	<0,0001					<0,0001				<0,0001	
Palladium (total)	Pd	mg/l	<0,0001					<0,0001				<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001					<0,00001				<0,00001	
Platinum (total)	Pt	mg/l	<0,0001					<0,0001				<0,0001	
Rubidium (total)	Rb	mg/l	0,0064					0,0059				0,0077	
Rhenium (total)	Re	mg/l	<0,0001					<0,0001				<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001					<0,00001				<0,00001	
Scandium (total)	Sc	mg/l	<0,0001					<0,0001				<0,0001	
Samarium (total)	Sm	mg/l	<0,00001					<0,00001				<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001					<0,0001				<0,0001	
Terbium (total)	Tb	mg/l	<0,00001					<0,00001				<0,00001	
Tellurium (total)	Te	mg/l	<0,0001					<0,0001				<0,0001	
Thorium (total)	Th	mg/l	<0,0001					<0,0001				<0,0001	
Thulium (total)	Tm	mg/l	<0,00001					<0,00001				<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001					<0,00001				<0,00001	

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #66	Sem. #67	Sem. #68	Sem. #69	Sem. #70	Sem. #71	Sem. #72	Sem. #73	Sem. #74	Sem. #75	Sem. #76
			2024-08-01	2024-08-08	2024-08-15	2024-08-22	2024-08-29	2024-09-05	2024-09-12	2024-09-19	2024-09-26	2024-10-03	2024-10-10
Volume du lixiviat	V	mL	953	928	973	960	980	950	987	981	985	950	976
pH	pH	No unit	7,05	7,20	7,02	7,37	7,05	7,20	6,99	6,96	7,34	7,06	6,86
Alkalinité	Alkalinité	$mgCaCO_3/l$			5				4				4
Conductivité	Conductivité	µS/cm	10	13	7	9	11	15	10	12	11	11	9
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			<0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,033				0,021				0,027
Arsenic	As	mg/l			0,0023				0,0012				0,0012
Baryum	Ba	mg/l			0,00027				0,0001				<0,00008
Beryllium	Be	mg/l			0,000109				0,000027				0,000062
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			0,00008				0,00006				0,00007
Calcium	Ca	mg/l			1,89				2,12				1,79
Cadmium	Cd	mg/l			<0,000003				<0,000003				<0,000003
Cobalt	Co	mg/l			0,000024				0,000009				0,000008
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,171				0,157				0,149
Lithium	Li	mg/l			0,0048				0,0044				0,0042
Magnésium	Mg	mg/l			0,064				0,060				0,059
Manganese	Mn	mg/l			0,00064				0,00054				0,00062
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,08				0,06				0,07
Nickel	Ni	mg/l			0,0002				<0,0001				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			0,0012				<0,0009				<0,0009
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			<0,00006				<0,00006				0,00007
Strontium	Sr	mg/l			0,00369				0,00354				0,00315
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000017				0,000013				0,000011
Uranium	U	mg/l			0,00059				0,000558				0,00046
Vanadium	V	mg/l			0,00004				0,00003				0,00003
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,004				0,0037				0,0035
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			0,0001				<0,0001				0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			<0,00001				0,00004				0,00003
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0069				0,0059				0,0071
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #77	Sem. #78	Sem. #79	Sem. #80	Sem. #81	Sem. #82	Sem. #83	Sem. #84	Sem. #85	Sem. #86	Sem. #87
			2024-10-17	2024-10-24	2024-10-31	2024-11-07	2024-11-14	2024-11-21	2024-11-28	2024-12-05	2024-12-12	2024-12-19	2024-12-26
Volume du lixiviat	V	mL	916	992	972	990	1009	923	1005	970	999	1053	1041
pH	pH	No unit	7,04	7,07	6,73	6,84	7,12	6,93	6,92	6,82	7,07	7,05	7,08
Alkalinité	Alkalinité	$mgCaCO_3/l$				3				5			
Conductivité	Conductivité	µS/cm	11	11	10	10	13	9	13	9	10	16	19
Acidité	Acidité	$mgCaCO_3/l$				<2,0				<2,0			
Fluoride	F	mg/l				<0,06				<0,06			
Phosphore réactif total	PO_4^{3-}-P	mg/l				<0,03				<0,03			
Sulfate	SO_4^{2-}	mg/l				<2,0				<2,0			
Chlore	Cl^-	mg/l				<1,0				<1,0			
Nitrite	NO_2^-	mgN/l				<0,03				<0,03			
Nitrate	NO_3^-	mgN/l				<0,06				<0,06			
Bromide	Br	mg/l				<0,3				<0,3			
Mercure	Hg	mg/l				<0,00001				<0,00001			
Argent	Ag	mg/l				<0,00005				<0,00005			
Aluminum	Al	mg/l				0,021				0,022			
Arsenic	As	mg/l				0,0011				0,0010			
Baryum	Ba	mg/l				0,00013				<0,00008			
Beryllium	Be	mg/l				0,000024				0,000033			
Bore	B	mg/l				<0,002				<0,002			
Bismuth	Bi	mg/l				0,00006				0,00007			
Calcium	Ca	mg/l				1,88				1,67			
Cadmium	Cd	mg/l				<0,000003				<0,000003			
Cobalt	Co	mg/l				0,000007				0,000007			
Chrome	Cr	mg/l				<0,00008				<0,00008			
Cuivre	Cu	mg/l				<0,001				<0,001			
Fer	Fe	mg/l				<0,007				<0,007			
Potassium	K	mg/l				0,126				0,125			
Lithium	Li	mg/l				0,0048				0,0046			
Magnésium	Mg	mg/l				0,054				0,045			
Manganese	Mn	mg/l				0,00215				0,00058			
Molybdène	Mo	mg/l				<0,0004				<0,0004			
Sodium	Na	mg/l				0,07				0,05			
Nickel	Ni	mg/l				<0,0001				<0,0001			
Plomb	Pb	mg/l				<0,00009				<0,00009			
Antimoine	Sb	mg/l				<0,0009				<0,0009			
Sélénium	Se	mg/l				<0,00004				<0,00004			
Etain	Sn	mg/l				<0,00006				0,00007			
Strontium	Sr	mg/l				0,00379				0,00310			
Titane	Ti	mg/l				<0,0001				<0,0001			
Thallium	Th	mg/l				0,000006				0,000016			
Uranium	U	mg/l				0,000474				0,000260			
Vanadium	V	mg/l				0,00003				0,00003			
Tungstène	W	mg/l				<0,0002				<0,0002			
Yttrium	Y	mg/l				<0,00002				<0,00002			
Zinc	Zn	mg/l				<0,002				<0,002			
Gold (total)	Au	mg/l				<0,00001				<0,00001			
Cérium (total)	Ce	mg/l				<0,00001				<0,00001			
Césium (total)	Cs	mg/l				0,0029				0,0034			
Dysprosium (total)	Dy	mg/l				<0,00001				<0,00001			
Erbium (total)	Er	mg/l				<0,00001				<0,00001			
Europium (total)	Eu	mg/l				<0,00001				<0,00001			
Gallium (total)	Ga	mg/l				<0,0001				<0,0001			
Gadolinium (total)	Gd	mg/l				<0,00001				<0,00001			
Germanium (total)	Ge	mg/l				<0,0001				<0,0001			
Hafnium (total)	Hf	mg/l				<0,0001				<0,0001			
Holmium (total)	Ho	mg/l				<0,00001				<0,00001			
Indium (total)	In	mg/l				<0,00001				<0,00001			
Iridium (total)	Ir	mg/l				<0,00001				<0,00001			
Lanthanum (total)	La	mg/l				<0,00001				<0,00001			
Lutetium (total)	Lu	mg/l				<0,0001				<0,0001			
Niobium (total)	Nb	mg/l				<0,00001				<0,00001			
Néodymium (total)	Nd	mg/l				<0,00001				<0,00001			
Osmium (total)	Os	mg/l				<0,0001				<0,0001			
Palladium (total)	Pd	mg/l				<0,0001				<0,0001			
Praseodymium (total)	Pr	mg/l				<0,00001				<0,00001			
Platinum (total)	Pt	mg/l				<0,0001				<0,0001			
Rubidium (total)	Rb	mg/l				0,0047				0,0056			
Rhenium (total)	Re	mg/l				<0,0001				<0,0001			
Rhodium (total)	Rh	mg/l				<0,00001				<0,00001			
Scandium (total)	Sc	mg/l				<0,0001				<0,0001			
Samarium (total)	Sm	mg/l				<0,00001				<0,00001			
Tantalum (total)	Ta	mg/l				<0,0001				<0,0001			
Terbium (total)	Tb	mg/l				<0,00001				<0,00001			
Tellurium (total)	Te	mg/l				<0,0001				<0,0001			
Thorium (total)	Th	mg/l				<0,0001				<0,0001			
Thulium (total)	Tm	mg/l				<0,00001				<0,00001			
Ytterbium (total)	Yb	mg/l				<0,00001				<0,00001			

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #88	Sem. #89
			2025-01-02	2025-01-09
Volume du lixiviat	V	mL	1016	1022
pH	pH	No unit	6,75	7,45
Alkalinité	Alkalinité	mg$CaCO_3$/l	7	
Conductivité	Conductivité	µS/cm	17	18
Acidité	Acidité	mg$CaCO_3$/l	<2,0	
Fluoride	F	mg/l	<0,06	
Phosphore réactif total	PO_4^{3-}-P	mg/l	<0,03	
Sulfate	SO_4^{2-}	mg/l	<2,0	
Chlore	Cl^-	mg/l	<1,0	
Nitrite	NO_2^-	mgN/l	<0,03	
Nitrate	NO_3^-	mgN/l	<0,06	
Bromide	Br	mg/l	<0,3	
Mercure	Hg	mg/l	<0,00001	
Argent	Ag	mg/l	<0,00005	
Aluminum	Al	mg/l	0,035	
Arsenic	As	mg/l	0,0056	
Baryum	Ba	mg/l	<0,00008	
Beryllium	Be	mg/l	0,000075	
Bore	B	mg/l	<0,002	
Bismuth	Bi	mg/l	0,00007	
Calcium	Ca	mg/l	2,92	
Cadmium	Cd	mg/l	<0,000003	
Cobalt	Co	mg/l	0,000012	
Chrome	Cr	mg/l	<0,00008	
Cuivre	Cu	mg/l	<0,001	
Fer	Fe	mg/l	<0,007	
Potassium	K	mg/l	0,152	
Lithium	Li	mg/l	0,0048	
Magnésium	Mg	mg/l	0,065	
Manganese	Mn	mg/l	0,00148	
Molybdène	Mo	mg/l	<0,0004	
Sodium	Na	mg/l	0,06	
Nickel	Ni	mg/l	<0,0001	
Plomb	Pb	mg/l	<0,00009	
Antimoine	Sb	mg/l	0,0012	
Sélénium	Se	mg/l	<0,00004	
Etain	Sn	mg/l	0,00006	
Strontium	Sr	mg/l	0,00438	
Titane	Ti	mg/l	<0,0001	
Thallium	Th	mg/l	0,000015	
Uranium	U	mg/l	0,000558	
Vanadium	V	mg/l	0,00004	
Tungstène	W	mg/l	<0,0002	
Yttrium	Y	mg/l	<0,00002	
Zinc	Zn	mg/l	<0,002	
Gold (total)	Au	mg/l	<0,00001	
Cérium (total)	Ce	mg/l	<0,00001	
Césium (total)	Cs	mg/l	0,0044	
Dysprosium (total)	Dy	mg/l	<0,00001	
Erbium (total)	Er	mg/l	<0,00001	
Europium (total)	Eu	mg/l	<0,00001	
Gallium (total)	Ga	mg/l	0,0001	
Gadolinium (total)	Gd	mg/l	<0,00001	
Germanium (total)	Ge	mg/l	<0,0001	
Hafnium (total)	Hf	mg/l	<0,0001	
Holmium (total)	Ho	mg/l	<0,00001	
Indium (total)	In	mg/l	<0,00001	
Iridium (total)	Ir	mg/l	<0,00001	
Lanthanum (total)	La	mg/l	<0,00001	
Lutetium (total)	Lu	mg/l	<0,0001	
Niobium (total)	Nb	mg/l	0,00006	
Néodymium (total)	Nd	mg/l	<0,00001	
Osmium (total)	Os	mg/l	<0,0001	
Palladium (total)	Pd	mg/l	<0,0001	
Praseodymium (total)	Pr	mg/l	<0,00001	
Platinum (total)	Pt	mg/l	<0,0001	
Rubidium (total)	Rb	mg/l	0,0062	
Rhenium (total)	Re	mg/l	<0,0001	
Rhodium (total)	Rh	mg/l	<0,00001	
Scandium (total)	Sc	mg/l	<0,0001	
Samarium (total)	Sm	mg/l	<0,00001	
Tantalum (total)	Ta	mg/l	<0,0001	
Terbium (total)	Tb	mg/l	<0,00001	
Tellurium (total)	Te	mg/l	<0,0001	
Thorium (total)	Th	mg/l	<0,0001	
Thulium (total)	Tm	mg/l	<0,00001	
Ytterbium (total)	Yb	mg/l	<0,00001	

Résultats HCT – CV5-WR-HCT-76

Analyse	Symbole	Unité	Sem. #90	Sem. #91	Sem. #92	Sem. #93	Sem. #94	Sem. #95	Sem. #96	Sem. #97	Sem. #98	Sem. #99	Sem. #100
			2025-01-16	2025-01-23	2025-01-30	2025-02-06	2025-02-13	2025-02-20	2025-02-27	2025-03-06	2025-03-13	2025-03-20	2025-03-27
Volume du lixiviat	V	mL	1057	1032	1020	1038	988	969	994	1000	1002	1023	990
pH	pH	No unit	6,58	6,81	6,90	7,08	6,56	6,84	7,09	6,49	6,74	6,73	7,14
Alkalinité	Alkalinité	$mgCaCO_3/l$			6				7				6
Conductivité	Conductivité	µS/cm	15	20	14	19	15	12	14	15	14	19	13
Acidité	Acidité	$mgCaCO_3/l$			<2,0				<2,0				<2,0
Fluoride	F	mg/l			<0,06				<0,06				<0,06
Phosphore réactif total	PO_4^{3-}-P	mg/l			0,03				<0,03				<0,03
Sulfate	SO_4^{2-}	mg/l			<2,0				<2,0				<2,0
Chlore	Cl^-	mg/l			<1,0				<1,0				<1,0
Nitrite	NO_2^-	mgN/l			<0,03				<0,03				<0,03
Nitrate	NO_3^-	mgN/l			<0,06				<0,06				<0,06
Bromide	Br	mg/l			<0,3				<0,3				<0,3
Mercure	Hg	mg/l			<0,00001				<0,00001				<0,00001
Argent	Ag	mg/l			<0,00005				<0,00005				<0,00005
Aluminum	Al	mg/l			0,047				0,039				0,043
Arsenic	As	mg/l			0,0014				0,0011				0,0011
Baryum	Ba	mg/l			<0,00008				<0,00008				<0,00008
Beryllium	Be	mg/l			0,000057				0,000044				0,000033
Bore	B	mg/l			<0,002				<0,002				<0,002
Bismuth	Bi	mg/l			0,00007				0,00009				0,00010
Calcium	Ca	mg/l			2,60				2,67				2,58
Cadmium	Cd	mg/l			<0,000003				0,000004				<0,000003
Cobalt	Co	mg/l			0,000011				0,000017				0,000009
Chrome	Cr	mg/l			<0,00008				<0,00008				<0,00008
Cuivre	Cu	mg/l			<0,001				<0,001				<0,001
Fer	Fe	mg/l			<0,007				<0,007				<0,007
Potassium	K	mg/l			0,146				0,130				0,124
Lithium	Li	mg/l			0,0045				0,0049				0,0041
Magnésium	Mg	mg/l			0,051				0,052				0,048
Manganese	Mn	mg/l			0,00109				0,00110				0,00082
Molybdène	Mo	mg/l			<0,0004				<0,0004				<0,0004
Sodium	Na	mg/l			0,06				0,06				0,06
Nickel	Ni	mg/l			<0,0001				0,0006				<0,0001
Plomb	Pb	mg/l			<0,00009				<0,00009				<0,00009
Antimoine	Sb	mg/l			<0,0009				<0,0009				<0,0009
Sélénium	Se	mg/l			<0,00004				<0,00004				<0,00004
Etain	Sn	mg/l			0,00011				<0,00006				<0,00006
Strontium	Sr	mg/l			0,00393				0,00403				0,00352
Titane	Ti	mg/l			<0,0001				<0,0001				<0,0001
Thallium	Th	mg/l			0,000017				0,000014				0,000014
Uranium	U	mg/l			0,000568				0,000664				0,000575
Vanadium	V	mg/l			0,00003				0,00002				0,00004
Tungstène	W	mg/l			<0,0002				<0,0002				<0,0002
Yttrium	Y	mg/l			<0,00002				<0,00002				<0,00002
Zinc	Zn	mg/l			<0,002				<0,002				<0,002
Gold (total)	Au	mg/l			<0,00001				<0,00001				<0,00001
Cérium (total)	Ce	mg/l			<0,00001				<0,00001				<0,00001
Césium (total)	Cs	mg/l			0,0041				0,0038				0,0043
Dysprosium (total)	Dy	mg/l			<0,00001				<0,00001				<0,00001
Erbium (total)	Er	mg/l			<0,00001				<0,00001				<0,00001
Europium (total)	Eu	mg/l			<0,00001				<0,00001				<0,00001
Gallium (total)	Ga	mg/l			0,0001				0,0001				0,0001
Gadolinium (total)	Gd	mg/l			<0,00001				<0,00001				<0,00001
Germanium (total)	Ge	mg/l			<0,0001				<0,0001				<0,0001
Hafnium (total)	Hf	mg/l			<0,0001				<0,0001				<0,0001
Holmium (total)	Ho	mg/l			<0,00001				<0,00001				<0,00001
Indium (total)	In	mg/l			<0,00001				<0,00001				<0,00001
Iridium (total)	Ir	mg/l			<0,00001				<0,00001				<0,00001
Lanthanum (total)	La	mg/l			<0,00001				<0,00001				<0,00001
Lutetium (total)	Lu	mg/l			<0,0001				<0,0001				<0,0001
Niobium (total)	Nb	mg/l			0,00001				<0,00001				<0,00001
Néodymium (total)	Nd	mg/l			<0,00001				<0,00001				<0,00001
Osmium (total)	Os	mg/l			<0,0001				<0,0001				<0,0001
Palladium (total)	Pd	mg/l			<0,0001				<0,0001				<0,0001
Praseodymium (total)	Pr	mg/l			<0,00001				<0,00001				<0,00001
Platinum (total)	Pt	mg/l			<0,0001				<0,0001				<0,0001
Rubidium (total)	Rb	mg/l			0,0068				0,0058				0,0055
Rhenium (total)	Re	mg/l			<0,0001				<0,0001				<0,0001
Rhodium (total)	Rh	mg/l			<0,00001				<0,00001				<0,00001
Scandium (total)	Sc	mg/l			<0,0001				<0,0001				<0,0001
Samarium (total)	Sm	mg/l			<0,00001				<0,00001				<0,00001
Tantalum (total)	Ta	mg/l			<0,0001				<0,0001				<0,0001
Terbium (total)	Tb	mg/l			<0,00001				<0,00001				<0,00001
Tellurium (total)	Te	mg/l			<0,0001				<0,0001				<0,0001
Thorium (total)	Th	mg/l			<0,0001				<0,0001				<0,0001
Thulium (total)	Tm	mg/l			<0,00001				<0,00001				<0,00001
Ytterbium (total)	Yb	mg/l			<0,00001				<0,00001				<0,00001

Résultat des essais en colonne - CV5-CL-1

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1498	2016	1902	2005	2022	1994	1959	2061	1981	1951	2065
pH	pH	pH unit	9,34	8,56	8,64	8,49	7,99	7,76	7,84	7,97	7,77	7,48	7,55
Alkalinité	Alkalinité	$mgCaCO_3/l$	75	50	37	30	25	22	20	20	16	14	14
Conductivité	Conductivité	µS/cm	508	176	66	58	45	39	42	36	28	28	30
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	0,86	0,34	0,16	0,08	<0,06	<0,06	<0,06	<0,06	0,09	<0,06	<0,06
Sulphate	SO_4^{2-}	mg/l	13	3,8	1,0	0,5	0,4	0,4	0,4	0,3	0,2	0,3	0,2
Chloride	Cl^-	mgN/l	0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,23	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,26	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	130	44	3,2	0,8	0,5	0,4	0,3	0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,237	0,218	0,220	0,210	0,192	0,208	0,213	0,213	0,212	0,193	0,198
Arsenic	As	mg/l	0,496	0,877	0,529	0,351	0,219	0,181	0,145	0,126	0,107	0,0948	0,0864
Baryum	Ba	mg/l	0,00078	0,00048	0,00027	0,00026	0,00024	0,00026	0,00020	0,00017	0,00014	0,00017	0,00017
Beryllium	Be	mg/l	0,032	0,042	0,018	0,011	0,007	0,005	0,005	0,003	0,003	0,002	0,002
Bore	B	mg/l	0,000033	0,000045	0,000037	0,000045	0,000033	0,000051	0,000021	0,000031	0,000036	0,000023	0,000029
Bismuth	Bi	mg/l	0,00029	0,00051	0,00049	0,00050	0,00050	0,00037	0,00027	0,00049	0,00040	0,00023	0,00043
Calcium	Ca	mg/l	8,88	5,29	4,02	4,91	5,01	5,13	5,27	4,86	4,79	4,56	4,80
Cadmium	Cd	mg/l	0,000007	0,000014	0,000006	0,000009	0,000007	0,000004	0,000004	0,000004	0,000004	0,000007	0,000005
Cobalt	Co	mg/l	0,000205	0,000083	0,000032	0,000025	0,000018	0,000014	0,000018	0,000014	0,000014	0,000016	0,000027
Chrome	Cr	mg/l	0,00015	0,00011	0,00010	0,00009	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	0,004	0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	13,5	6,17	2,97	2,36	1,87	1,46	1,33	1,12	0,950	0,846	0,842
Lithium	Li	mg/l	0,820	0,516	0,170	0,0988	0,0612	0,0449	0,0339	0,0280	0,0220	0,0182	0,0174
Magnésium	Mg	mg/l	1,10	0,660	0,419	0,467	0,454	0,428	0,383	0,343	0,327	0,274	0,279
Manganèse	Mn	mg/l	0,00312	0,00559	0,00444	0,00649	0,00741	0,00830	0,00979	0,0113	0,0123	0,0124	0,0143
Molybdenum	Mo	mg/l	0,0043	0,0072	0,0016	0,0009	0,0006	0,0005	0,0006	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	76,9	27,6	8,53	4,75	3,04	2,15	1,59	1,28	1,06	0,90	0,83
Nickel	Ni	mg/l	0,0021	0,0011	0,0003	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Plomb	Pb	mg/l	0,00010	0,00012	0,00010	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	0,0507	0,302	0,196	0,150	0,128	0,100	0,0809	0,0839	0,0660	0,0679	0,0607
Sélénium	Se	mg/l	0,00043	0,00037	0,00025	0,00020	0,00014	0,00013	0,00013	0,00010	0,00010	0,00008	0,00008
Etain	Sn	mg/l	0,0393	0,0165	0,0113	0,00536	0,00452	0,00463	0,00269	0,00192	0,00336	0,00146	0,00098
Strontium	Sr	mg/l	0,0363	0,0204	0,0131	0,0157	0,0140	0,0140	0,0136	0,0130	0,0122	0,0112	0,0111
Titanium	Ti	mg/l	0,0001	0,00013	0,00015	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thallium	Th	mg/l	0,000846	0,000320	0,000152	0,000127	0,000102	0,000083	0,000072	0,000070	0,000061	0,000054	0,000053
Uranium	U	mg/l	0,0560	1,27	0,842	0,423	0,374	0,272	0,229	0,189	0,183	0,143	0,131
Vanadium	V	mg/l	0,00160	0,00096	0,00056	0,00044	0,00028	0,00023	0,00019	0,00018	0,00015	0,00015	0,00013
Tungsten	W	mg/l	0,00695	0,0148	0,00437	0,00223	0,00233	0,00089	0,00072	0,00078	0,00067	0,00040	0,00036
Yttrium	Y	mg/l	<0,00002	0,00002	0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00002	0,00002	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00003
Césium (total)	Cs	mg/l	0,0563	0,0336	0,0202	0,0187	0,0166	0,0144	0,0135	0,0128	0,0119	0,0103	0,0111
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0027	0,0021	0,0015	0,0013	0,0012	0,0010	0,0010	0,0009	0,0007	0,0006	0,0007
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0002	<0,0001	<0,0001	0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00014	0,00005	0,00004	0,00002	0,00003	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00003	0,00002	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0003	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,619	0,268	0,133	0,118	0,0879	0,0739	0,0661	0,0585	0,0513	0,0453	0,0440
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-2

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1742	2006	1992	1999	2023	2042	1997	2004	1986	1997	1999
pH	pH	pH unit	9,20	8,00	8,87	8,14	7,97	7,55	7,89	8,12	8,11	7,77	8,01
Alkalinité	Alkalinité	$mgCaCO_3/l$	59	39	34	28	24	27	21	20	20	15	20
Conductivité	Conductivité	µS/cm	173	117	70	60	52	42	47	40	36	33	34
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	1,13	0,53	0,31	0,20	0,16	0,12	0,09	0,11	0,08	0,08	0,08
Sulphate	SO_4^{2-}	mg/l	7,2	11	5,1	3,4	2,7	2,5	2,5	2,1	1,8	1,9	1,5
Chloride	Cl^-	mgN/l	0,06	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,27	0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,33	0,07	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	30	9,7	1,2	0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,300	0,211	0,196	0,197	0,176	0,186	0,195	0,192	0,195	0,178	0,168
Arsenic	As	mg/l	0,404	1,51	1,39	1,12	0,802	0,744	0,671	0,600	0,542	0,509	0,458
Baryum	Ba	mg/l	0,00040	0,00058	0,00043	0,00043	0,00035	0,00031	0,00031	0,00028	0,00022	0,00022	0,00028
Beryllium	Be	mg/l	0,038	0,051	0,030	0,021	0,014	0,012	0,010	0,009	0,007	0,006	0,006
Bore	B	mg/l	0,000036	0,000026	0,000053	0,000031	0,000031	0,000029	0,000049	0,000038	0,000026	0,000034	0,000034
Bismuth	Bi	mg/l	0,00014	0,00023	0,00024	0,00022	0,00022	0,00014	0,00019	0,00019	0,00019	0,00015	0,00016
Calcium	Ca	mg/l	4,66	5,48	4,66	5,13	5,50	5,52	5,64	5,21	5,70	5,19	4,74
Cadmium	Cd	mg/l	0,000004	0,000006	0,000004	<0,000003	<0,000003	0,000004	<0,000003	<0,000003	<0,000003	0,000006	<0,000003
Cobalt	Co	mg/l	0,000251	0,000119	0,000079	0,000073	0,000066	0,000056	0,000051	0,000063	0,000049	0,000064	0,000055
Chrome	Cr	mg/l	0,00028	0,00025	0,00013	0,00012	0,00009	0,00008	<0,00008	0,00008	0,00008	0,00008	0,00009
Cuivre	Cu	mg/l	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	0,008	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	8,10	4,64	2,78	2,33	1,93	1,53	1,40	1,20	1,00	0,923	0,814
Lithium	Li	mg/l	0,897	0,634	0,255	0,165	0,112	0,0791	0,0651	0,0534	0,0460	0,0398	0,0380
Magnésium	Mg	mg/l	0,990	1,14	0,856	0,881	0,837	0,835	0,759	0,700	0,667	0,586	0,545
Manganèse	Mn	mg/l	0,00133	0,00530	0,00508	0,00651	0,00680	0,00710	0,00776	0,00844	0,0110	0,00936	0,0083
Molybdenum	Mo	mg/l	0,0046	0,0084	0,0034	0,0019	0,0010	0,0010	0,0009	0,0007	0,0004	0,0005	0,0004
Sodium	Na	mg/l	24,3	14,2	5,90	3,65	2,40	1,69	1,28	1,04	0,86	0,73	0,62
Nickel	Ni	mg/l	0,0035	0,0034	0,0015	0,0011	0,0008	0,0007	0,0006	0,0007	0,0005	0,0006	0,0006
Plomb	Pb	mg/l	<0,00009	<0,00009	0,00014	0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0745	0,350	0,280	0,249	0,223	0,176	0,146	0,161	0,132	0,136	0,120
Sélénium	Se	mg/l	0,00026	0,00044	0,00022	0,00017	0,00013	0,00012	0,00014	0,00010	0,00008	0,00008	0,00006
Etain	Sn	mg/l	0,0434	0,0204	0,0145	0,00530	0,00441	0,00538	0,00341	0,00209	0,00323	0,00324	0,00193
Strontium	Sr	mg/l	0,0138	0,0205	0,0163	0,0185	0,0174	0,0174	0,0169	0,0161	0,0156	0,0148	0,0133
Titanium	Ti	mg/l	0,0003	0,00029	0,00029	0,00026	0,00014	0,0001	0,0001	0,0002	0,00013	0,0001	0,0002
Thallium	Th	mg/l	0,000331	0,000205	0,000124	0,000118	0,000083	0,000085	0,000078	0,000073	0,000062	0,000056	0,000057
Uranium	U	mg/l	0,00115	0,321	0,383	0,269	0,285	0,231	0,212	0,180	0,181	0,143	0,136
Vanadium	V	mg/l	0,00351	0,00320	0,00234	0,00187	0,00140	0,00117	0,00112	0,00096	0,00081	0,00073	0,00065
Tungsten	W	mg/l	0,00608	0,0125	0,00456	0,00224	0,00113	0,00104	0,00098	0,00078	0,00057	0,00049	0,00051
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00002	0,00003	0,00003	0,00001	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	0,00003
Césium (total)	Cs	mg/l	0,107	0,104	0,0754	0,0785	0,0673	0,0640	0,0599	0,0586	0,0525	0,0483	0,0493
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0028	0,0016	0,0013	0,0011	0,0011	0,0009	0,0010	0,0008	0,0007	0,0007	0,0006
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00015	0,00007	0,00005	0,00002	0,00003	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00003	0,00003	0,00002	0,00002	0,00001	0,00001	0,00001	0,00001	0,00001	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0003	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,387	0,190	0,116	0,101	0,0818	0,0714	0,0655	0,0565	0,0500	0,0457	0,0408
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-3

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1808	1935	1988	2003	2007	1968	2029	1974	1913	2017	2007
pH	pH	pH unit	7,27	7,50	7,95	7,36	7,66	7,25	7,60	7,67	7,65	7,39	6,93
Alkalinité	Alkalinité	$mgCaCO_3/l$	21	25	26	14	15	15	13	12	12	11	13
Conductivité	Conductivité	µS/cm	223	168	74	63	48	42	44	41	39	39	39
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	0,20	0,21	0,19	0,12	0,14	<0,06	<0,06	<0,06	<0,06	0,06	<0,06
Sulphate	SO_4^{2-}	mg/l	9,4	15	11	5,9	5,9	6,7	6,7	6,1	6,2	5,9	4,6
Chloride	Cl^-	mgN/l	0,04	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	0,37	0,20	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	0,41	0,20	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	71	47	4,9	1,4	0,5	0,3	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,075	0,049	0,049	0,049	0,040	0,040	0,039	0,042	0,041	0,040	0,040
Arsenic	As	mg/l	0,561	4,39	5,08	4,67	3,54	3,66	3,41	3,00	3,03	2,86	2,60
Baryum	Ba	mg/l	0,00298	0,00172	0,00098	0,00098	0,00084	0,00091	0,00087	0,00076	0,00079	0,00066	0,00065
Beryllium	Be	mg/l	0,021	0,047	0,030	0,021	0,017	0,014	0,012	0,010	0,010	0,008	0,007
Bore	B	mg/l	0,000012	0,000008	0,000009	0,000013	0,000013	0,000013	0,000009	0,000010	0,000011	0,000010	0,000022
Bismuth	Bi	mg/l	0,00002	0,00002	0,00002	0,00002	0,00002	0,00001	0,00002	0,00001	0,00003	0,00001	0,00002
Calcium	Ca	mg/l	14,5	9,92	5,63	6,00	5,82	5,92	6,22	5,50	6,36	6,12	5,68
Cadmium	Cd	mg/l	0,000007	0,000005	0,000004	<0,000003	0,000007	<0,000003	0,000004	<0,000003	0,000006	0,000003	0,000004
Cobalt	Co	mg/l	0,000136	0,000365	0,000353	0,000489	0,000529	0,000570	0,000685	0,000689	0,00102	0,000843	0,000838
Chrome	Cr	mg/l	0,00020	0,00027	0,00024	0,00019	0,00014	0,00011	0,00009	0,00015	0,00015	0,00010	0,00009
Cuivre	Cu	mg/l	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,008	0,011	0,010	0,008	<0,007	<0,007	<0,007	0,007	0,009	0,007	<0,007
Potassium	K	mg/l	3,14	2,61	1,33	1,18	0,957	0,754	0,666	0,559	0,545	0,465	0,407
Lithium	Li	mg/l	0,521	0,436	0,185	0,103	0,0802	0,0617	0,0502	0,0411	0,0419	0,0349	0,0335
Magnésium	Mg	mg/l	1,76	1,52	0,757	0,755	0,739	0,780	0,768	0,679	0,770	0,659	0,642
Manganèse	Mn	mg/l	0,00826	0,0113	0,00775	0,00868	0,00871	0,00923	0,0102	0,00953	0,0116	0,0105	0,0106
Molybdenum	Mo	mg/l	0,0018	0,0034	0,0014	0,0008	0,0006	0,0009	0,0004	<0,0004	<0,0004	<0,0004	<0,0004
Sodium	Na	mg/l	26,1	21,4	7,73	4,38	2,57	1,70	1,15	0,85	0,74	0,56	0,46
Nickel	Ni	mg/l	0,0059	0,0241	0,0144	0,0147	0,0135	0,0140	0,0160	0,0151	0,0192	0,0166	0,0146
Plomb	Pb	mg/l	<0,00009	0,00010	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,0845	0,663	0,742	0,778	0,766	0,702	0,644	0,702	0,723	0,659	0,607
Sélénium	Se	mg/l	0,00031	0,00075	0,00053	0,00051	0,00037	0,00034	0,00035	0,00024	0,00024	0,00023	0,00020
Etain	Sn	mg/l	0,0229	0,0126	0,00812	0,00350	0,00312	0,00405	0,00227	0,00218	0,00447	0,00204	0,00208
Strontium	Sr	mg/l	0,0896	0,0584	0,0304	0,0319	0,0284	0,0293	0,0304	0,0260	0,0289	0,0261	0,0238
Titanium	Ti	mg/l	0,0002	0,00026	0,00041	0,00028	0,00016	0,0001	0,0002	0,0002	0,00024	0,0001	0,0001
Thallium	Th	mg/l	0,000252	0,000179	0,000108	0,000112	0,000095	0,000093	0,000083	0,000080	0,000090	0,000071	0,000073
Uranium	U	mg/l	0,0165	0,109	0,0861	0,0559	0,0593	0,0368	0,0362	0,0322	0,0433	0,0303	0,0286
Vanadium	V	mg/l	0,00315	0,00822	0,00745	0,00655	0,00497	0,00403	0,00398	0,00337	0,00338	0,00299	0,00278
Tungsten	W	mg/l	0,00394	0,00813	0,00524	0,00288	0,00239	0,00134	0,00110	0,00096	0,00078	0,00063	0,00056
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00001	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002
Césium (total)	Cs	mg/l	0,310	0,308	0,202	0,215	0,193	0,197	0,193	0,177	0,203	0,178	0,189
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00008	0,00004	0,00003	0,00001	0,00001	0,00002	<0,00001	<0,00001	0,00002	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00005	0,00006	0,00004	0,00004	0,00005	0,00005	0,00004	0,00004	0,00004	0,00003
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	0,111	0,0833	0,0478	0,0467	0,0397	0,0368	0,0357	0,0322	0,0323	0,0292	0,0275
Rhodium (total)	Rh	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-4

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	250	1986	1992	2010	2003	1992	2012	1966	2015	1997	2006
pH	pH	pH unit	8,49	8,51	8,35	8,00	8,14	7,96	7,88	7,60	8,04	7,90	7,51
Alkalinité	Alkalinité	$mgCaCO_3/l$	448	169	81	58	48	40	40	39	35	35	37
Conductivité	Conductivité	µS/cm	3490	479	194	123	111	104	80	84	73	73	82
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	13,9	4,92	1,68	0,86	0,62	0,53	0,32	0,36	0,35	0,32	0,32
Sulphate	SO_4^{2-}	mg/l	180	49	16	6,8	7,1	6,1	6,2	6,1	5,9	6,3	6,9
Chloride	Cl^-	mgN/l	0,89	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrite	NO_2^-	as N mg/L	9,22	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Nitrate	NO_3^-	as N mg/L	10,1	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	920	7,7	1,0	0,6	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2	<0,2
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,024	0,157	0,167	0,131	0,100	0,124	0,125	0,112	0,107	0,142	0,142
Arsenic	As	mg/l	4,47	17,6	8,59	4,81	2,95	2,21	1,92	1,62	1,45	1,38	1,67
Baryum	Ba	mg/l	0,0448	0,00482	0,00246	0,00186	0,00161	0,00155	0,00133	0,00119	0,00116	0,00120	0,00132
Beryllium	Be	mg/l	0,785	0,567	0,246	0,141	0,091	0,066	0,047	0,039	0,033	0,029	0,023
Bore	B	mg/l	0,000071	0,000101	0,000095	0,000079	0,000050	0,000054	0,000050	0,000051	0,000045	0,000062	0,000050
Bismuth	Bi	mg/l	0,00013	0,00030	0,00035	0,00029	0,00021	0,00018	0,00018	0,00021	0,00033	0,00034	0,00028
Calcium	Ca	mg/l	119	6,17	4,99	6,08	6,56	6,80	6,45	7,35	7,77	7,85	8,80
Cadmium	Cd	mg/l	0,000283	0,000016	0,000004	0,000003	0,000004	<0,000003	<0,000003	0,000005	0,000005	0,000004	0,000003
Cobalt	Co	mg/l	0,00547	0,00111	0,000311	0,000198	0,000162	0,000142	0,000141	0,000114	0,000137	0,000147	0,000227
Chrome	Cr	mg/l	0,00181	0,00032	0,00032	0,00021	0,00010	0,00010	0,00014	0,00008	0,00010	0,00017	0,00017
Cuivre	Cu	mg/l	0,028	0,003	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,010	0,017	0,020	0,011	0,007	0,008	0,009	0,007	<0,007	0,009	0,011
Potassium	K	mg/l	73,7	18,8	11,8	10,5	9,89	7,78	6,20	6,26	5,59	5,11	4,86
Lithium	Li	mg/l	35,1	4,48	1,42	0,849	0,593	0,450	0,352	0,317	0,316	0,262	0,246
Magnésium	Mg	mg/l	35,3	2,10	1,26	1,46	1,46	1,48	1,47	1,61	1,63	1,65	1,82
Manganèse	Mn	mg/l	0,110	0,0136	0,00909	0,00869	0,00939	0,0103	0,0117	0,0128	0,0123	0,0128	0,0157
Molybdenum	Mo	mg/l	0,184	0,0292	0,0040	0,0019	0,0014	0,0011	0,0009	0,0012	0,0006	0,0009	0,0008
Sodium	Na	mg/l	467	77,2	26,0	11,8	7,55	5,24	3,86	3,68	3,08	2,56	2,56
Nickel	Ni	mg/l	0,156	0,0894	0,0127	0,0062	0,0040	0,0027	0,0023	0,0017	0,0019	0,0021	0,0034
Plomb	Pb	mg/l	0,00016	0,00016	0,00015	0,00010	<0,00009	<0,00009	<0,00009	0,00017	<0,00009	0,00010	<0,00009
Antimoine	Sb	mg/l	1,68	5,47	1,90	0,829	0,548	0,356	0,252	0,246	0,229	0,204	0,247
Sélénium	Se	mg/l	0,00474	0,00056	0,00028	0,00018	0,00015	0,00012	0,00012	0,00011	0,00011	0,00012	0,00011
Etain	Sn	mg/l	0,130	0,0111	0,0109	0,00802	0,00727	0,00507	0,00402	0,00365	0,00335	0,00292	0,00260
Strontium	Sr	mg/l	0,965	0,0396	0,0264	0,02944	0,0294	0,0311	0,0296	0,0305	0,0318	0,0297	0,0338
Titanium	Ti	mg/l	0,0008	0,00067	0,00071	0,00045	0,00044	0,0004	0,0004	0,0003	0,00030	0,0003	0,0003
Thallium	Th	mg/l	0,00391	0,000696	0,000454	0,000363	0,000316	0,000275	0,000234	0,000197	0,000200	0,000200	0,000215
Uranium	U	mg/l	0,0996	0,946	0,577	0,550	0,675	0,652	0,585	0,476	0,455	0,391	0,417
Vanadium	V	mg/l	0,00867	0,0136	0,0102	0,00617	0,00477	0,00298	0,00205	0,00164	0,00161	0,00136	0,00282
Tungsten	W	mg/l	0,944	0,700	0,111	0,0456	0,0235	0,0190	0,0152	0,0139	0,0101	0,0117	0,0136
Yttrium	Y	mg/l	0,00004	0,00005	0,00004	0,00003	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	0,00002
Zinc	Zn	mg/l	0,018	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00004	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	0,00001	0,00004	0,00004	0,00002	0,00002	0,00001	0,00002	0,00002	0,00001	0,00002	0,00003
Césium (total)	Cs	mg/l	1,44	0,439	0,342	0,277	0,269	0,259	0,229	0,234	0,217	0,193	0,208
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0007	0,0009	0,0015	0,0017	0,0020	0,0023	0,0025	0,0029	0,0030	0,0032	0,0032
Gadolinium (total)	Gd	mg/l	<0,00001	0,00001	0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0013	0,0003	0,0002	0,0002	0,0001	0,0001	0,0001	0,0001	0,0002	0,0001	0,0002
Hafnium (total)	Hf	mg/l	0,0009	0,0003	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00042	0,00004	0,00003	0,00003	0,00003	0,00002	0,00002	<0,00001	0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	0,00008	0,00032	0,00011	0,00005	0,00003	0,00002	0,00002	0,00002	0,00002	0,00002	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0042	0,0008	0,0007	0,0003	0,0002	0,0001	0,0002	0,0001	0,0001	0,0002	0,0002
Neodymium (total)	Nd	mg/l	0,00001	0,00002	0,00002	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Rhénium (total)	Re	mg/l	3,05	0,754	0,440	0,445	0,372	0,337	0,317	0,300	0,258	0,249	0,248
Rhodium (total)	Rh	mg/l	0,0005	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Tantalum (total)	Ta	mg/l	0,0003	0,0005	0,0003	0,0002	0,0003	0,0002	0,0001	0,0003	0,0002	0,0002	0,0001
Terbium (total)	Tb	mg/l	0,0002	0,0004	0,0003	<0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0002	0,0002
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,00002	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	0,0003	0,0002	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-5

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1340	2031	2000	1980	2011	2004	1944	2026	1992	1988	2008
pH	pH	pH unit	8,48	7,93	8,08	8,34	7,91	7,48	7,78	8,06	7,84	7,73	7,00
Alkalinité	Alkalinité	$mgCaCO_3/l$	53	49	41	32	32	27	24	26	23	21	23
Conductivité	Conductivité	µS/cm	401	200	119	93	76	59	59	55	47	47	46
Acidité	Acidité	$mgCaCO_3/l$	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0	<2,0
Fluoride	F^-	mg/l	1,48	0,76	0,52	0,32	0,30	0,19	0,13	0,14	0,12	0,08	0,07
Sulphate	SO_4^{2-}	mg/l	12	17	14	7,9	5,2	4,8	4,2	3,7	3,2	3,0	2,5
Chloride	Cl^-	mgN/l	110,00	<42,0	<10,0	<3,6	<1,3	<0,5	<0,3	<0,2	<0,2	<0,2	<0,2
Nitrite	NO_2^-	as N mg/L	0,12	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	as N mg/L	0,46	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Brome	Br	mg/l	1	0	0	0,1	0,1	0,1	0,1	0,1	<0,06	<0,06	<0,06
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005	<0,00005
Aluminum	Al	mg/l	0,206	0,105	0,100	0,108	0,100	0,102	0,095	0,113	0,107	0,110	0,114
Arsenic	As	mg/l	0,548	4,47	4,21	3,59	2,79	2,44	2,03	1,86	1,50	1,37	1,24
Baryum	Ba	mg/l	0,00106	0,00130	0,00090	0,00073	0,00068	0,00067	0,00055	0,00059	0,00058	0,00049	0,00068
Beryllium	Be	mg/l	0,067	0,099	0,067	0,044	0,034	0,025	0,019	0,017	0,014	0,011	0,011
Bore	B	mg/l	0,000033	0,000034	0,000022	0,000038	0,000040	0,000024	0,000030	0,000039	0,000039	0,000037	0,000032
Bismuth	Bi	mg/l	0,00015	0,00023	0,00025	0,00024	0,00023	0,00016	0,00019	0,00023	0,00049	0,00014	0,00025
Calcium	Ca	mg/l	7,91	7,36	6,06	5,81	6,32	6,11	6,03	6,05	6,45	6,26	6,32
Cadmium	Cd	mg/l	0,000010	0,000011	0,000007	0,000008	0,000003	0,000008	<0,000003	<0,000003	<0,000003	0,000005	0,000004
Cobalt	Co	mg/l	0,000246	0,000286	0,000238	0,000196	0,000182	0,000158	0,000158	0,000165	0,000179	0,000149	0,000169
Chrome	Cr	mg/l	0,00022	0,00015	0,00013	0,00014	0,00012	0,00011	<0,00008	0,00010	<0,00008	0,00010	<0,00008
Cuivre	Cu	mg/l	0,003	0,001	<0,001	0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
Potassium	K	mg/l	13,5	7,19	4,51	3,33	3,10	2,37	2,15	2,02	1,73	1,63	1,53
Lithium	Li	mg/l	1,84	1,08	0,611	0,347	0,271	0,191	0,139	0,119	0,105	0,0867	0,0887
Magnésium	Mg	mg/l	1,36	1,49	1,06	0,936	0,949	0,949	0,866	0,869	0,850	0,749	0,774
Manganèse	Mn	mg/l	0,00345	0,0106	0,00986	0,0117	0,0123	0,0126	0,0135	0,0139	0,0147	0,0139	0,0145
Molybdenum	Mo	mg/l	0,0075	0,0106	0,0048	0,0023	0,0016	0,0010	0,0008	0,0007	0,0005	0,0005	0,0005
Sodium	Na	mg/l	56,8	29,6	14,8	8,41	6,21	4,26	3,09	2,59	2,15	1,74	1,60
Nickel	Ni	mg/l	0,0060	0,0099	0,0059	0,0036	0,0029	0,0024	0,0022	0,0022	0,0020	0,0019	0,0017
Plomb	Pb	mg/l	<0,00009	0,00014	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009	<0,00009
Antimoine	Sb	mg/l	0,120	0,999	0,779	0,598	0,549	0,403	0,300	0,322	0,275	0,251	0,226
Sélénium	Se	mg/l	0,00035	0,00033	0,00018	0,00016	0,00013	0,00010	0,00013	0,00010	0,00010	0,00009	0,00009
Etain	Sn	mg/l	0,0432	0,0132	0,00809	0,00494	0,00501	0,00377	0,00281	0,00263	0,00260	0,00213	0,00212
Strontium	Sr	mg/l	0,0367	0,0356	0,0272	0,0261	0,0240	0,0229	0,0222	0,0235	0,0224	0,0211	0,0209
Titanium	Ti	mg/l	0,0002	0,00018	0,00016	0,00017	0,00013	0,0001	<0,0001	0,0001	0,00012	0,0002	0,0002
Thallium	Th	mg/l	0,000683	0,000359	0,000228	0,000190	0,000174	0,000139	0,000115	0,000123	0,000107	0,000094	0,000097
Uranium	U	mg/l	0,00644	0,461	0,465	0,341	0,415	0,351	0,302	0,298	0,298	0,248	0,259
Vanadium	V	mg/l	0,00297	0,00341	0,00284	0,00244	0,00213	0,00170	0,00149	0,00139	0,00123	0,00116	0,00112
Tungsten	W	mg/l	0,0270	0,0961	0,0476	0,0203	0,0129	0,00652	0,00407	0,00301	0,00192	0,00171	0,00160
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Cérium (total)	Ce	mg/l	<0,00001	0,00002	0,00002	0,00001	0,00002	0,00001	<0,00001	0,00001	<0,00001	<0,00001	0,00002
Césium (total)	Cs	mg/l	0,236	0,198	0,141	0,133	0,123	0,120	0,104	0,106	0,104	0,0930	0,101
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Gallium (total)	Ga	mg/l	0,0020	0,0008	0,0007	0,0007	0,0008	0,0007	0,0007	0,0007	0,0006	0,0006	0,0006
Gadolinium (total)	Gd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	0,00015	0,00005	0,00003	0,00002	0,00002	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Lanthanum (total)	La	mg/l	<0,00001	0,00007	0,00005	0,00003	0,00003	0,00002	0,00003	0,00002	0,00002	0,00002	0,00002
Lutétium (total)	Lu	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	0,0005	0,0003	0,0002	0,0002	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Neodymium (total)	Nd	mg/l	<0,00001	0,00001	0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	<0,606	<0,3	<0,194	<0,154	<0,133	<0,115	<0,101	<0,096	<0,0886	<0,0794	<0,0789
Rhénium (total)	Re	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,0001	0,0001	0,0001	0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,00001	0,0000	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	0,0000	<0,00001	<0,00001	<0,00001
Terbium (total)	Tb	mg/l	0,0004	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001

Résultat des essais en colonne - CV5-CL-6

Analyse	Symbole	Unité	Sem. #0	Sem. #2	Sem. #4	Sem. #6	Sem. #8	Sem. #10	Sem. #12	Sem. #14	Sem. #16	Sem. #18	Sem. #20
			2025-02-26	2025-03-12	2025-03-26	2025-04-09	2025-04-23	2025-05-07	2025-05-21	2025-06-04	2025-06-18	2025-07-02	2025-07-16
Volume de lixiviat	V	ml	1314	2015	1997	1988	2012	1994	2016	2009	1948	2020	1986
pH	pH	pH unit	8,63	8,02	8,22	8,34	8,05	7,47	7,60	8,08	7,85	7,82	7,02
Alkalinité	Alkalinité	$mgCaCO_3/l$	<58,0	<50,0	<41,0	<37,0	<32,0	<28,0	<27,0	<27,0	<25,0	<23,0	<23,0
Conductivité	Conductivité	µS/cm	417	204	127	106	77	64	57	57	46	50	47
Acidité	Acidité	$mgCaCO_3/l$	2	2	2	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Fluoride	F^-	mg/l	1,57	0,73	0,51	0,37	0,31	0,25	0,16	0,17	0,14	0,12	0,10
Sulphate	SO_4^{2-}	mg/l	14,00	17,00	15,00	7,80	6,30	5,30	4,80	4,00	3,30	3,40	2,50
Chloride	Cl^-	mgN/l	110,00	<42,0	<12,0	<4,4	<2,0	<0,8	<0,4	<0,2	<0,2	<0,2	<0,2
Nitrite	NO_2^-	as N mg/L	0,13	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03	<0,03
Nitrate	NO_3^-	as N mg/L	1	0	0	0,1	0,1	0,1	0,1	0,1	<0,06	<0,06	<0,06
Brome	Br	mg/l	<0,63	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06	<0,06
Mercure	Hg	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Argent	Ag	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Aluminum	Al	mg/l	0,169	0,099	0,104	0,116	0,099	0,101	0,10	0,11	0,11	0,11	0,10
Arsenic	As	mg/l	0,69300	4,09000	4,17000	3,66000	2,83000	2,52000	2,19000	1,88000	1,52000	1,48000	1,21000
Baryum	Ba	mg/l	0,001	0,002	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,000
Beryllium	Be	mg/l	0,079000	0,095000	0,073000	0,052000	0,039000	0,028000	0,023000	0,019000	0,015000	0,013000	0,012000
Bore	B	mg/l	0,00006	0,00004	0,00006	0,00006	0,00004	0,00003	0,00005	0,00005	0,00003	0,00003	0,00004
Bismuth	Bi	mg/l	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Calcium	Ca	mg/l	8,300000	7,430000	6,110000	<6,15	6,180000	5,870000	<6,17	5,710000	6,150000	<6,44	5,660000
Cadmium	Cd	mg/l	0,000008	0,000008	0,000004	0,000003	0,000007	0,000004	0,000003	0,000003	0,000004	0,000003	0,000006
Cobalt	Co	mg/l	0,00024	0,00027	0,00025	0,00020	0,00020	<0,000169	<0,000154	<0,000154	0,00018	<0,000127	<0,000164
Chrome	Cr	mg/l	0,000	<0,00015	<0,00015	<0,00013	<0,0001	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008	<0,00008
Cuivre	Cu	mg/l	<0,002	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001	<0,001
Fer	Fe	mg/l	0,0	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
Potassium	K	mg/l	13,60	7,18	4,420	3,720	3,210	2,500	2,350	2,130	1,880	1,750	1,5200
Lithium	Li	mg/l	1,94	1,10	0,68	0,411	0,316	0,226	0,171	0,139	0,122	0,106	0,097
Magnésium	Mg	mg/l	1,48000	1,4600	1,08000	0,9540	0,9390	0,8840	0,8710	0,8540	0,8320	0,7840	0,7040
Manganèse	Mn	mg/l	0,0047	0,0106	0,0095	0,0107	0,0110	0,0113	0,0116	0,0122	0,0127	0,0121	0,0116
Molybdenum	Mo	mg/l	0,0	0,0	0,0	0,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Sodium	Na	mg/l	60,0000	29,9000	15,5000	10,1000	7,5200	5,0800	3,8000	3,1300	2,5900	2,1600	1,7200
Nickel	Ni	mg/l	<0,0072	0,01130	<0,0065	0,00430	<0,0033	<0,0026	<0,0023	<0,0021	0,00180	<0,0017	<0,0014
Plomb	Pb	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Antimoine	Sb	mg/l	0,17900	0,97300	0,77800	0,65100	0,60000	0,44400	0,35400	0,35900	0,30700	0,28700	0,24700
Sélénium	Se	mg/l	0,0004	0,0003	0,00020	0,00017	0,00014	0,00013	0,00016	0,00010	0,00009	0,00009	0,00007
Etain	Sn	mg/l	0,0357	0,0104	0,0072	0,0041	0,0042	0,0033	0,0025	0,0026	0,0027	0,0021	0,0019
Strontium	Sr	mg/l	0,0380	0,03560	0,02780	0,02630	<0,0233	0,0217	0,0221	0,0239	<0,0214	0,0213	<0,0186
Titanium	Ti	mg/l	0,000200	0,000180	0,000230	0,000180	0,000100	0,000100	0,000100	0,000100	0,000100	0,000100	0,000100
Thallium	Th	mg/l	0,00070	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Uranium	U	mg/l	0,00661	0,40200	0,44700	0,35100	0,41100	0,34800	0,30500	0,30200	0,30200	0,27600	0,25600
Vanadium	V	mg/l	0,0034	0,0033	0,0027	0,0026	0,0021	0,0017	0,0016	0,0015	0,00128	0,00124	0,00108
Tungsten	W	mg/l	<0,0367	<0,0967	<0,0769	<0,0549	<0,0318	<0,02	<0,013	<0,0103	<0,00477	<0,00485	<0,00312
Yttrium	Y	mg/l	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002	<0,00002
Zinc	Zn	mg/l	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
Gold (total)	Au	mg/l	<0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	0,00001
Cérium (total)	Ce	mg/l	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,0000	0,0000
Césium (total)	Cs	mg/l	<0,232	<0,186	<0,141	<0,139	<0,123	<0,116	<0,107	<0,102	<0,107	<0,0955	<0,0977
Dysprosium (total)	Dy	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Erbium (total)	Er	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Europium (total)	Eu	mg/l	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gallium (total)	Ga	mg/l	<0,0018	<0,0007	<0,0006	<0,0007	<0,0007	<0,0006	<0,0006	<0,0006	<0,0005	<0,0006	<0,0005
Gadolinium (total)	Gd	mg/l	0,0000	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Germanium (total)	Ge	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Hafnium (total)	Hf	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Holmium (total)	Ho	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	<0,00001	0,00001	<0,00001	<0,00001
Indium (total)	In	mg/l	<0,00013	<0,00004	<0,00002	<0,00002	<0,00002	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Iridium (total)	Ir	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001
Lanthanum (total)	La	mg/l	<0,00001	<0,00006	<0,00006	<0,00004	<0,00003	<0,00002	<0,00004	<0,00003	<0,00002	<0,00002	<0,00002
Lutétium (total)	Lu	mg/l	0,0001	0,0001	0,0001	0,0001	0,0001	<0,0001	<0,0001	0,0001	<0,0001	<0,0001	<0,0001
Niobium (total)	Nb	mg/l	<0,0006	<0,0002	0,00020	0,00020	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	0,00010
Neodymium (total)	Nd	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Osmium (total)	Os	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Palladium (total)	Pd	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Praseodymium (total)	Pr	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Platinum (total)	Pt	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rubidium (total)	Rb	mg/l	0,592	0,298	0,198	0,166	0,135	0,118	0,110	0,0973	0,0905	0,0861	0,0769
Rhénium (total)	Re	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Rhodium (total)	Rh	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Scandium (total)	Sc	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Samarium (total)	Sm	mg/l	<0,0001	0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tantalum (total)	Ta	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	0,0000	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Terbium (total)	Tb	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Tellurium (total)	Te	mg/l	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001	<0,00001
Thorium (total)	Th	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Thulium (total)	Tm	mg/l	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
Ytterbium (total)	Yb	mg/l	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001	0,00001

Annexe E : Résultats de la simulation de modélisation

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	9,41E-05	1,40E-04	6,50E-05	7,81E-04	2,68E-04
Moyenne	7,01E-05	9,21E-05	3,67E-05	6,48E-04	2,55E-04
Minimum	5,35E-05	5,66E-05	2,22E-05	5,19E-04	2,41E-04
1	9,15E-05	1,21E-04	5,40E-05	6,36E-04	2,49E-04
2	6,58E-05	8,19E-05	4,06E-05	7,18E-04	2,62E-04
3	6,56E-05	9,77E-05	2,70E-05	6,45E-04	2,57E-04
4	7,28E-05	1,07E-04	3,29E-05	6,71E-04	2,60E-04
5	7,19E-05	8,05E-05	3,18E-05	6,61E-04	2,58E-04
6	6,67E-05	8,66E-05	2,54E-05	6,58E-04	2,60E-04
7	7,69E-05	6,37E-05	3,45E-05	6,46E-04	2,58E-04
8	7,18E-05	7,32E-05	3,54E-05	6,27E-04	2,55E-04
9	6,82E-05	9,53E-05	4,37E-05	6,49E-04	2,56E-04
10	7,65E-05	9,81E-05	2,76E-05	6,44E-04	2,54E-04
11	7,04E-05	9,08E-05	3,99E-05	6,70E-04	2,57E-04
12	7,28E-05	8,82E-05	3,19E-05	6,60E-04	2,55E-04
13	6,89E-05	8,63E-05	3,23E-05	6,31E-04	2,66E-04
14	6,16E-05	1,03E-04	3,32E-05	7,28E-04	2,55E-04
15	6,42E-05	9,92E-05	5,68E-05	7,39E-04	2,53E-04
16	5,97E-05	8,55E-05	3,53E-05	6,38E-04	2,48E-04
17	6,04E-05	8,58E-05	3,27E-05	6,41E-04	2,58E-04
18	7,04E-05	7,26E-05	4,35E-05	7,07E-04	2,65E-04
19	7,18E-05	1,07E-04	3,63E-05	5,82E-04	2,45E-04
20	6,96E-05	1,09E-04	3,14E-05	6,37E-04	2,58E-04
21	7,55E-05	9,93E-05	3,71E-05	6,28E-04	2,57E-04
22	6,26E-05	9,27E-05	2,63E-05	7,23E-04	2,53E-04
23	6,45E-05	8,50E-05	2,22E-05	6,61E-04	2,59E-04
24	6,59E-05	7,75E-05	4,03E-05	6,41E-04	2,66E-04
25	7,10E-05	9,75E-05	3,98E-05	5,19E-04	2,47E-04
26	5,80E-05	8,46E-05	3,57E-05	6,95E-04	2,49E-04
27	6,73E-05	8,55E-05	2,64E-05	6,80E-04	2,60E-04
28	7,20E-05	7,44E-05	4,09E-05	6,63E-04	2,60E-04
29	7,64E-05	7,13E-05	3,12E-05	6,97E-04	2,61E-04
30	7,31E-05	1,01E-04	3,31E-05	6,25E-04	2,50E-04
31	5,82E-05	9,01E-05	4,37E-05	6,69E-04	2,61E-04
32	6,23E-05	9,42E-05	3,65E-05	6,32E-04	2,59E-04
33	6,76E-05	9,68E-05	5,40E-05	7,41E-04	2,54E-04
34	6,28E-05	8,74E-05	4,17E-05	6,50E-04	2,64E-04
35	6,96E-05	1,08E-04	3,53E-05	5,86E-04	2,56E-04
36	6,69E-05	1,10E-04	3,89E-05	6,49E-04	2,60E-04
37	7,56E-05	9,17E-05	4,04E-05	6,70E-04	2,54E-04
38	7,05E-05	9,20E-05	3,44E-05	6,57E-04	2,56E-04
39	7,15E-05	7,26E-05	3,14E-05	6,54E-04	2,55E-04
40	7,61E-05	8,58E-05	4,06E-05	7,04E-04	2,55E-04
41	6,52E-05	9,44E-05	3,70E-05	6,72E-04	2,59E-04
42	6,76E-05	8,55E-05	3,77E-05	6,12E-04	2,58E-04
43	7,23E-05	6,62E-05	3,52E-05	6,36E-04	2,54E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	2,80E-05	3,40E-05	2,87E-05	4,44E-04	2,68E-05
Moyenne	1,94E-05	1,86E-05	1,77E-05	8,50E-05	1,92E-05
Minimum	1,51E-05	1,14E-05	1,46E-05	1,23E-05	1,49E-05
1	1,97E-05	2,55E-05	1,64E-05	3,08E-05	2,21E-05
2	2,25E-05	2,15E-05	1,70E-05	5,46E-05	2,18E-05
3	1,97E-05	2,25E-05	1,53E-05	1,08E-04	2,10E-05
4	1,73E-05	2,11E-05	2,08E-05	4,17E-05	1,94E-05
5	2,03E-05	1,20E-05	2,02E-05	3,99E-05	1,67E-05
6	1,58E-05	1,96E-05	1,76E-05	1,06E-04	1,80E-05
7	1,93E-05	1,14E-05	1,60E-05	2,80E-04	1,68E-05
8	2,35E-05	2,37E-05	1,68E-05	3,58E-05	2,32E-05
9	2,02E-05	2,01E-05	1,89E-05	1,44E-04	2,06E-05
10	1,67E-05	2,01E-05	1,75E-05	5,22E-05	1,84E-05
11	2,05E-05	1,43E-05	1,98E-05	7,23E-05	1,80E-05
12	1,76E-05	1,94E-05	1,65E-05	6,02E-05	1,85E-05
13	2,21E-05	2,27E-05	1,87E-05	5,63E-05	2,23E-05
14	1,91E-05	1,77E-05	1,70E-05	2,28E-04	1,94E-05
15	2,24E-05	1,33E-05	1,69E-05	8,07E-05	1,83E-05
16	1,95E-05	1,62E-05	2,15E-05	9,84E-05	1,86E-05
17	1,94E-05	1,76E-05	1,81E-05	4,55E-05	1,86E-05
18	2,17E-05	1,33E-05	1,69E-05	1,12E-04	1,81E-05
19	1,85E-05	1,55E-05	2,08E-05	1,75E-04	1,81E-05
20	1,83E-05	1,48E-05	1,61E-05	6,69E-05	1,68E-05
21	1,85E-05	1,83E-05	1,80E-05	1,81E-04	1,91E-05
22	2,11E-05	1,73E-05	1,66E-05	7,93E-05	1,93E-05
23	1,84E-05	2,02E-05	1,55E-05	5,53E-05	1,91E-05
24	1,84E-05	1,80E-05	1,80E-05	3,35E-04	1,98E-05
25	2,03E-05	2,11E-05	1,70E-05	7,66E-05	2,06E-05
26	1,70E-05	1,38E-05	1,99E-05	7,77E-05	1,61E-05
27	1,90E-05	1,37E-05	1,83E-05	7,48E-05	1,69E-05
28	2,16E-05	1,78E-05	1,98E-05	8,37E-05	2,01E-05
29	1,87E-05	1,33E-05	1,68E-05	2,62E-05	1,62E-05
30	1,72E-05	2,37E-05	1,58E-05	2,83E-05	2,00E-05
31	1,88E-05	1,77E-05	1,62E-05	7,42E-05	1,84E-05
32	2,08E-05	1,31E-05	1,72E-05	2,15E-04	1,81E-05
33	1,86E-05	2,18E-05	1,66E-05	1,03E-04	2,03E-05
34	1,89E-05	3,03E-05	1,90E-05	5,81E-05	2,41E-05
35	1,97E-05	1,97E-05	1,66E-05	1,12E-04	1,99E-05
36	1,68E-05	2,37E-05	1,57E-05	1,33E-04	2,03E-05
37	1,84E-05	1,57E-05	1,62E-05	5,91E-05	1,73E-05
38	2,20E-05	1,86E-05	1,63E-05	8,09E-05	2,04E-05
39	1,79E-05	2,55E-05	2,00E-05	3,49E-05	2,15E-05
40	1,99E-05	1,63E-05	1,59E-05	4,99E-05	1,81E-05
41	1,91E-05	1,83E-05	1,64E-05	2,35E-05	1,86E-05
42	1,81E-05	2,64E-05	1,65E-05	5,63E-05	2,19E-05
43	2,20E-05	1,54E-05	1,65E-05	2,08E-05	1,87E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
Maximum	3,26E-04	5,19E-04	2,91E-04	2,40E-03	9,23E-04
Moyenne	2,82E-04	4,21E-04	1,37E-04	2,27E-03	8,73E-04
Minimum	2,41E-04	3,46E-04	7,76E-05	2,13E-03	8,22E-04
1	2,79E-04	3,71E-04	1,52E-04	2,22E-03	8,44E-04
2	2,87E-04	4,59E-04	1,15E-04	2,28E-03	8,90E-04
3	2,99E-04	4,09E-04	1,51E-04	2,25E-03	8,72E-04
4	2,99E-04	4,13E-04	1,36E-04	2,31E-03	8,89E-04
5	2,86E-04	4,23E-04	1,76E-04	2,30E-03	8,87E-04
6	2,84E-04	4,55E-04	1,78E-04	2,28E-03	8,91E-04
7	2,70E-04	4,33E-04	1,81E-04	2,32E-03	8,90E-04
8	2,84E-04	3,90E-04	1,51E-04	2,25E-03	8,60E-04
9	2,89E-04	4,22E-04	1,24E-04	2,25E-03	8,70E-04
10	2,90E-04	3,62E-04	1,22E-04	2,31E-03	8,68E-04
11	2,86E-04	4,17E-04	1,69E-04	2,29E-03	8,81E-04
12	2,81E-04	4,29E-04	1,36E-04	2,26E-03	8,74E-04
13	2,81E-04	4,75E-04	1,30E-04	2,32E-03	9,04E-04
14	2,90E-04	3,84E-04	1,59E-04	2,29E-03	8,71E-04
15	2,96E-04	4,51E-04	1,16E-04	2,20E-03	8,68E-04
16	2,61E-04	4,08E-04	1,28E-04	2,22E-03	8,48E-04
17	2,92E-04	4,37E-04	1,51E-04	2,27E-03	8,83E-04
18	3,08E-04	4,30E-04	1,71E-04	2,34E-03	9,09E-04
19	2,76E-04	3,63E-04	1,53E-04	2,21E-03	8,38E-04
20	2,75E-04	4,47E-04	1,55E-04	2,30E-03	8,88E-04
21	2,71E-04	4,21E-04	1,02E-04	2,31E-03	8,80E-04
22	2,72E-04	3,98E-04	1,22E-04	2,27E-03	8,62E-04
23	2,69E-04	4,35E-04	1,23E-04	2,31E-03	8,85E-04
24	2,83E-04	4,88E-04	1,18E-04	2,32E-03	9,09E-04
25	2,54E-04	3,99E-04	1,51E-04	2,20E-03	8,39E-04
26	2,87E-04	4,36E-04	1,87E-04	2,18E-03	8,58E-04
27	2,73E-04	4,52E-04	1,32E-04	2,32E-03	8,94E-04
28	2,97E-04	4,28E-04	1,70E-04	2,28E-03	8,87E-04
29	3,18E-04	4,33E-04	1,68E-04	2,30E-03	8,99E-04
30	2,96E-04	3,96E-04	1,46E-04	2,20E-03	8,51E-04
31	2,84E-04	4,75E-04	1,83E-04	2,27E-03	8,95E-04
32	2,94E-04	4,33E-04	1,31E-04	2,30E-03	8,89E-04
33	2,78E-04	4,02E-04	1,33E-04	2,26E-03	8,64E-04
34	2,91E-04	4,39E-04	1,25E-04	2,30E-03	8,89E-04
35	2,92E-04	3,84E-04	1,13E-04	2,31E-03	8,74E-04
36	2,89E-04	4,24E-04	1,20E-04	2,31E-03	8,87E-04
37	2,90E-04	4,61E-04	2,14E-04	2,19E-03	8,71E-04
38	2,69E-04	4,53E-04	1,01E-04	2,26E-03	8,73E-04
39	2,84E-04	4,23E-04	1,53E-04	2,23E-03	8,65E-04
40	2,65E-04	4,15E-04	9,94E-05	2,31E-03	8,74E-04
41	2,97E-04	4,38E-04	1,62E-04	2,28E-03	8,88E-04
42	3,11E-04	4,22E-04	9,35E-05	2,25E-03	8,75E-04
43	2,92E-04	4,17E-04	1,75E-04	2,24E-03	8,71E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	8,34E-05	9,39E-05	4,15E-05	5,74E-04	2,60E-04
45	7,84E-05	7,59E-05	5,07E-05	6,83E-04	2,54E-04
46	7,05E-05	9,60E-05	4,28E-05	6,13E-04	2,55E-04
47	6,52E-05	8,55E-05	2,98E-05	6,52E-04	2,54E-04
48	7,60E-05	8,89E-05	3,24E-05	5,95E-04	2,58E-04
49	6,07E-05	1,11E-04	3,07E-05	6,68E-04	2,57E-04
50	7,60E-05	8,92E-05	4,78E-05	6,45E-04	2,54E-04
51	8,08E-05	9,36E-05	4,37E-05	6,50E-04	2,52E-04
52	6,54E-05	1,11E-04	2,85E-05	6,28E-04	2,57E-04
53	7,46E-05	1,02E-04	3,58E-05	6,48E-04	2,55E-04
54	6,69E-05	8,87E-05	3,48E-05	6,04E-04	2,53E-04
55	7,07E-05	8,25E-05	3,01E-05	6,30E-04	2,52E-04
56	7,00E-05	1,00E-04	3,51E-05	6,47E-04	2,62E-04
57	6,93E-05	9,15E-05	4,53E-05	6,90E-04	2,55E-04
58	7,01E-05	8,16E-05	4,38E-05	5,98E-04	2,51E-04
59	7,64E-05	8,46E-05	4,73E-05	7,00E-04	2,56E-04
60	7,30E-05	9,21E-05	2,82E-05	6,91E-04	2,47E-04
61	6,78E-05	7,40E-05	3,48E-05	6,34E-04	2,58E-04
62	8,19E-05	1,01E-04	4,55E-05	7,05E-04	2,59E-04
63	6,51E-05	1,02E-04	2,42E-05	6,54E-04	2,62E-04
64	7,25E-05	9,08E-05	3,65E-05	5,95E-04	2,56E-04
65	7,40E-05	1,10E-04	3,68E-05	7,07E-04	2,47E-04
66	6,40E-05	8,43E-05	4,16E-05	6,04E-04	2,60E-04
67	7,21E-05	6,28E-05	3,39E-05	6,02E-04	2,58E-04
68	6,84E-05	6,90E-05	3,42E-05	6,74E-04	2,63E-04
69	7,23E-05	7,54E-05	3,64E-05	6,23E-04	2,60E-04
70	6,75E-05	9,18E-05	3,25E-05	5,67E-04	2,55E-04
71	7,13E-05	9,80E-05	3,09E-05	6,03E-04	2,53E-04
72	6,87E-05	1,05E-04	3,35E-05	6,64E-04	2,59E-04
73	6,64E-05	1,08E-04	3,71E-05	6,99E-04	2,61E-04
74	6,50E-05	9,10E-05	3,65E-05	5,67E-04	2,55E-04
75	7,16E-05	8,01E-05	3,95E-05	6,48E-04	2,55E-04
76	7,23E-05	8,52E-05	3,13E-05	6,74E-04	2,66E-04
77	6,65E-05	8,13E-05	2,38E-05	7,30E-04	2,62E-04
78	7,24E-05	1,01E-04	3,41E-05	5,77E-04	2,53E-04
79	7,32E-05	9,20E-05	4,20E-05	6,73E-04	2,68E-04
80	7,12E-05	8,13E-05	3,52E-05	7,02E-04	2,57E-04
81	7,77E-05	9,48E-05	4,90E-05	6,04E-04	2,57E-04
82	6,96E-05	1,19E-04	4,77E-05	6,73E-04	2,54E-04
83	5,75E-05	7,96E-05	4,39E-05	6,25E-04	2,58E-04
84	6,79E-05	9,14E-05	3,99E-05	6,48E-04	2,54E-04
85	7,32E-05	1,07E-04	3,20E-05	5,92E-04	2,51E-04
86	8,00E-05	1,03E-04	4,82E-05	6,41E-04	2,59E-04
87	7,18E-05	9,87E-05	4,51E-05	7,36E-04	2,56E-04
88	6,64E-05	7,00E-05	2,71E-05	6,45E-04	2,65E-04
89	5,71E-05	9,26E-05	2,79E-05	6,74E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	1,86E-05	1,83E-05	1,75E-05	7,14E-05	1,86E-05
45	1,93E-05	1,30E-05	1,54E-05	2,90E-05	1,63E-05
46	1,80E-05	2,20E-05	1,79E-05	4,64E-05	1,99E-05
47	1,81E-05	2,18E-05	2,20E-05	5,54E-05	2,02E-05
48	1,82E-05	2,34E-05	1,55E-05	3,19E-04	2,17E-05
49	1,98E-05	1,71E-05	2,48E-05	3,07E-05	1,91E-05
50	2,07E-05	1,51E-05	1,58E-05	5,78E-05	1,81E-05
51	2,09E-05	2,09E-05	1,51E-05	6,28E-05	2,07E-05
52	1,92E-05	2,83E-05	1,72E-05	6,16E-05	2,33E-05
53	2,19E-05	1,76E-05	1,76E-05	1,20E-04	2,01E-05
54	1,73E-05	2,97E-05	1,57E-05	3,56E-05	2,28E-05
55	1,79E-05	1,57E-05	1,99E-05	1,39E-04	1,76E-05
56	1,97E-05	2,26E-05	1,66E-05	3,60E-05	2,08E-05
57	1,89E-05	1,75E-05	1,53E-05	4,16E-05	1,81E-05
58	2,01E-05	1,55E-05	1,68E-05	1,98E-04	1,87E-05
59	2,06E-05	1,51E-05	1,77E-05	1,47E-04	1,86E-05
60	1,73E-05	2,02E-05	1,59E-05	4,50E-05	1,86E-05
61	1,95E-05	2,12E-05	1,89E-05	1,02E-04	2,06E-05
62	1,90E-05	2,98E-05	2,10E-05	5,39E-05	2,41E-05
63	1,82E-05	1,64E-05	1,92E-05	6,68E-05	1,77E-05
64	1,82E-05	1,87E-05	2,48E-05	4,76E-05	1,91E-05
65	2,15E-05	1,37E-05	1,71E-05	3,90E-05	1,78E-05
66	1,92E-05	1,63E-05	1,88E-05	4,57E-05	1,80E-05
67	1,87E-05	1,51E-05	1,52E-05	1,12E-04	1,73E-05
68	1,83E-05	1,41E-05	1,64E-05	7,80E-05	1,66E-05
69	2,28E-05	2,01E-05	1,70E-05	6,60E-05	2,14E-05
70	1,65E-05	2,08E-05	1,61E-05	1,41E-05	1,84E-05
71	1,90E-05	1,41E-05	1,63E-05	9,02E-05	1,70E-05
72	1,95E-05	1,52E-05	1,71E-05	2,64E-05	1,75E-05
73	1,77E-05	2,13E-05	1,64E-05	1,11E-04	1,96E-05
74	1,88E-05	1,78E-05	1,74E-05	1,20E-04	1,87E-05
75	1,99E-05	1,87E-05	1,58E-05	2,63E-04	2,02E-05
76	1,68E-05	2,28E-05	1,67E-05	5,11E-05	1,96E-05
77	1,73E-05	1,71E-05	1,64E-05	1,13E-04	1,76E-05
78	1,83E-05	1,49E-05	2,09E-05	1,99E-04	1,79E-05
79	1,86E-05	3,10E-05	1,58E-05	3,30E-05	2,40E-05
80	2,42E-05	2,88E-05	1,71E-05	7,17E-05	2,59E-05
81	1,88E-05	2,33E-05	1,78E-05	6,10E-05	2,09E-05
82	1,60E-05	2,13E-05	1,82E-05	4,83E-05	1,87E-05
83	1,91E-05	1,74E-05	1,65E-05	7,18E-05	1,84E-05
84	1,91E-05	1,61E-05	1,62E-05	2,36E-04	1,86E-05
85	1,94E-05	1,75E-05	1,66E-05	1,05E-04	1,87E-05
86	1,93E-05	1,86E-05	2,37E-05	2,58E-04	2,05E-05
87	1,74E-05	2,27E-05	1,79E-05	6,91E-05	2,00E-05
88	2,21E-05	2,53E-05	1,63E-05	8,42E-05	2,34E-05
89	2,34E-05	2,78E-05	1,95E-05	1,38E-04	2,56E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
44	2,95E-04	4,51E-04	1,40E-04	2,28E-03	8,91E-04
45	2,80E-04	4,16E-04	1,29E-04	2,29E-03	8,77E-04
46	2,89E-04	4,16E-04	1,47E-04	2,25E-03	8,70E-04
47	3,01E-04	3,67E-04	1,10E-04	2,28E-03	8,65E-04
48	2,92E-04	4,36E-04	1,21E-04	2,25E-03	8,74E-04
49	2,63E-04	4,57E-04	1,05E-04	2,27E-03	8,78E-04
50	2,75E-04	4,15E-04	1,56E-04	2,27E-03	8,72E-04
51	2,58E-04	4,18E-04	1,39E-04	2,25E-03	8,58E-04
52	2,79E-04	4,28E-04	1,14E-04	2,25E-03	8,67E-04
53	2,94E-04	4,08E-04	1,09E-04	2,26E-03	8,69E-04
54	2,87E-04	4,05E-04	1,06E-04	2,22E-03	8,53E-04
55	2,66E-04	4,60E-04	1,38E-04	2,21E-03	8,65E-04
56	2,93E-04	3,92E-04	1,53E-04	2,36E-03	8,94E-04
57	2,72E-04	4,06E-04	2,17E-04	2,28E-03	8,74E-04
58	2,71E-04	3,94E-04	1,75E-04	2,25E-03	8,58E-04
59	2,97E-04	3,97E-04	1,25E-04	2,29E-03	8,77E-04
60	2,79E-04	3,95E-04	1,36E-04	2,19E-03	8,42E-04
61	2,81E-04	4,34E-04	1,57E-04	2,27E-03	8,78E-04
62	2,93E-04	4,01E-04	8,72E-05	2,29E-03	8,74E-04
63	3,22E-04	4,40E-04	2,03E-04	2,28E-03	9,01E-04
64	2,65E-04	4,66E-04	1,54E-04	2,24E-03	8,74E-04
65	2,98E-04	4,01E-04	1,91E-04	2,16E-03	8,44E-04
66	2,84E-04	4,76E-04	1,94E-04	2,26E-03	8,92E-04
67	2,80E-04	4,83E-04	9,69E-05	2,25E-03	8,86E-04
68	2,82E-04	4,38E-04	1,86E-04	2,35E-03	9,06E-04
69	2,81E-04	4,02E-04	2,01E-04	2,31E-03	8,82E-04
70	2,87E-04	4,31E-04	1,49E-04	2,25E-03	8,74E-04
71	2,84E-04	3,77E-04	1,95E-04	2,29E-03	8,71E-04
72	2,78E-04	4,28E-04	1,23E-04	2,32E-03	8,89E-04
73	3,13E-04	4,27E-04	1,51E-04	2,29E-03	8,92E-04
74	2,95E-04	4,17E-04	1,44E-04	2,25E-03	8,72E-04
75	2,87E-04	4,38E-04	1,93E-04	2,21E-03	8,68E-04
76	2,84E-04	4,36E-04	1,46E-04	2,38E-03	9,09E-04
77	2,81E-04	4,51E-04	1,02E-04	2,35E-03	9,02E-04
78	3,01E-04	4,11E-04	1,63E-04	2,23E-03	8,68E-04
79	2,95E-04	4,76E-04	1,43E-04	2,31E-03	9,07E-04
80	2,76E-04	4,28E-04	1,33E-04	2,23E-03	8,62E-04
81	3,10E-04	3,89E-04	1,36E-04	2,28E-03	8,74E-04
82	2,76E-04	4,04E-04	1,80E-04	2,27E-03	8,68E-04
83	3,03E-04	4,43E-04	1,10E-04	2,26E-03	8,84E-04
84	2,79E-04	4,42E-04	1,19E-04	2,24E-03	8,70E-04
85	2,95E-04	4,15E-04	1,30E-04	2,20E-03	8,57E-04
86	2,62E-04	4,43E-04	1,33E-04	2,30E-03	8,82E-04
87	2,81E-04	4,07E-04	9,29E-05	2,30E-03	8,74E-04
88	2,95E-04	4,45E-04	1,57E-04	2,30E-03	8,96E-04
89	2,72E-04	4,17E-04	9,56E-05	2,25E-03	8,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	7,40E-05	1,12E-04	2,57E-05	6,01E-04	2,56E-04
91	6,17E-05	9,10E-05	3,12E-05	6,44E-04	2,61E-04
92	7,73E-05	1,03E-04	3,12E-05	6,26E-04	2,51E-04
93	8,38E-05	9,76E-05	3,62E-05	6,30E-04	2,51E-04
94	7,38E-05	8,10E-05	4,50E-05	6,61E-04	2,52E-04
95	7,76E-05	8,57E-05	3,58E-05	6,76E-04	2,57E-04
96	7,30E-05	8,78E-05	3,14E-05	7,60E-04	2,47E-04
97	6,78E-05	8,80E-05	4,02E-05	6,09E-04	2,58E-04
98	6,39E-05	1,09E-04	3,45E-05	6,77E-04	2,63E-04
99	7,80E-05	9,98E-05	3,95E-05	5,83E-04	2,64E-04
100	6,26E-05	8,15E-05	3,15E-05	6,76E-04	2,61E-04
101	7,37E-05	8,14E-05	2,78E-05	5,95E-04	2,55E-04
102	6,65E-05	8,73E-05	3,39E-05	6,29E-04	2,58E-04
103	7,67E-05	7,78E-05	3,51E-05	6,19E-04	2,61E-04
104	6,82E-05	8,88E-05	3,59E-05	5,97E-04	2,60E-04
105	7,41E-05	9,68E-05	4,33E-05	6,10E-04	2,59E-04
106	6,27E-05	8,31E-05	3,50E-05	6,47E-04	2,52E-04
107	7,61E-05	7,16E-05	3,92E-05	6,63E-04	2,62E-04
108	6,49E-05	9,38E-05	3,53E-05	6,76E-04	2,46E-04
109	7,45E-05	7,87E-05	3,81E-05	6,38E-04	2,53E-04
110	6,73E-05	1,03E-04	4,04E-05	6,68E-04	2,61E-04
111	7,02E-05	1,01E-04	2,95E-05	6,57E-04	2,56E-04
112	7,11E-05	9,85E-05	3,43E-05	6,27E-04	2,63E-04
113	6,83E-05	1,06E-04	4,30E-05	6,54E-04	2,63E-04
114	6,64E-05	9,07E-05	4,14E-05	6,54E-04	2,55E-04
115	6,80E-05	1,23E-04	3,81E-05	6,98E-04	2,54E-04
116	7,67E-05	9,73E-05	3,27E-05	6,48E-04	2,55E-04
117	7,99E-05	1,14E-04	3,56E-05	6,48E-04	2,64E-04
118	6,67E-05	9,62E-05	3,10E-05	6,99E-04	2,56E-04
119	7,11E-05	7,22E-05	4,42E-05	6,19E-04	2,49E-04
120	7,73E-05	8,55E-05	4,12E-05	7,01E-04	2,57E-04
121	6,98E-05	7,75E-05	4,45E-05	6,19E-04	2,54E-04
122	6,62E-05	1,07E-04	3,50E-05	6,78E-04	2,49E-04
123	6,98E-05	8,66E-05	4,37E-05	6,03E-04	2,54E-04
124	6,33E-05	8,41E-05	3,94E-05	6,38E-04	2,59E-04
125	7,39E-05	9,91E-05	3,00E-05	6,29E-04	2,62E-04
126	7,55E-05	1,10E-04	3,05E-05	5,80E-04	2,56E-04
127	7,44E-05	8,94E-05	3,27E-05	6,91E-04	2,51E-04
128	6,77E-05	7,81E-05	3,75E-05	6,51E-04	2,61E-04
129	6,81E-05	9,20E-05	4,00E-05	6,80E-04	2,60E-04
130	7,84E-05	7,76E-05	3,62E-05	6,47E-04	2,54E-04
131	6,76E-05	8,84E-05	3,40E-05	7,29E-04	2,55E-04
132	6,62E-05	9,61E-05	3,91E-05	6,14E-04	2,47E-04
133	7,79E-05	7,44E-05	3,08E-05	6,47E-04	2,44E-04
134	7,51E-05	9,92E-05	4,62E-05	6,43E-04	2,56E-04
135	7,05E-05	9,89E-05	4,83E-05	6,29E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	2,39E-05	2,11E-05	1,73E-05	5,47E-05	2,23E-05
91	2,00E-05	2,10E-05	1,82E-05	5,15E-05	2,05E-05
92	1,94E-05	1,80E-05	2,04E-05	1,86E-05	1,89E-05
93	2,04E-05	1,66E-05	1,67E-05	1,67E-04	1,92E-05
94	2,15E-05	1,43E-05	1,91E-05	3,81E-05	1,82E-05
95	1,82E-05	1,81E-05	1,65E-05	1,44E-05	1,80E-05
96	1,89E-05	1,34E-05	1,69E-05	3,22E-05	1,64E-05
97	2,38E-05	2,38E-05	1,90E-05	8,58E-05	2,37E-05
98	1,89E-05	1,81E-05	1,69E-05	8,46E-05	1,87E-05
99	2,22E-05	1,85E-05	1,58E-05	8,77E-05	2,04E-05
100	1,64E-05	2,48E-05	1,74E-05	2,75E-04	2,15E-05
101	1,88E-05	1,56E-05	1,70E-05	8,24E-05	1,76E-05
102	2,18E-05	1,39E-05	1,70E-05	8,57E-05	1,83E-05
103	2,35E-05	1,62E-05	1,91E-05	3,05E-05	2,00E-05
104	1,87E-05	1,75E-05	1,61E-05	9,88E-05	1,83E-05
105	1,94E-05	2,48E-05	1,86E-05	4,64E-05	2,18E-05
106	1,75E-05	1,41E-05	1,60E-05	1,59E-04	1,66E-05
107	2,10E-05	1,92E-05	1,69E-05	1,17E-04	2,04E-05
108	2,14E-05	1,90E-05	1,72E-05	5,45E-05	2,02E-05
109	1,95E-05	1,89E-05	1,56E-05	2,87E-05	1,90E-05
110	1,98E-05	1,60E-05	1,74E-05	3,02E-05	1,80E-05
111	1,84E-05	1,46E-05	1,58E-05	1,84E-04	1,73E-05
112	2,03E-05	2,73E-05	1,69E-05	3,63E-05	2,32E-05
113	1,85E-05	2,11E-05	1,79E-05	3,03E-05	1,96E-05
114	1,86E-05	1,47E-05	1,77E-05	4,51E-05	1,69E-05
115	2,07E-05	1,51E-05	1,66E-05	5,45E-05	1,81E-05
116	1,83E-05	1,50E-05	1,52E-05	1,79E-04	1,74E-05
117	2,13E-05	2,22E-05	1,69E-05	3,48E-05	2,15E-05
118	1,78E-05	1,66E-05	1,89E-05	7,19E-05	1,76E-05
119	1,87E-05	2,19E-05	2,08E-05	1,44E-04	2,09E-05
120	2,00E-05	1,82E-05	1,61E-05	9,53E-05	1,93E-05
121	2,32E-05	1,69E-05	1,56E-05	2,42E-05	1,99E-05
122	1,99E-05	2,02E-05	1,46E-05	7,52E-05	1,99E-05
123	2,02E-05	1,85E-05	1,76E-05	7,65E-05	1,95E-05
124	1,90E-05	1,94E-05	1,78E-05	2,97E-04	2,05E-05
125	1,80E-05	2,37E-05	1,68E-05	2,78E-05	2,05E-05
126	2,03E-05	1,93E-05	1,66E-05	4,25E-05	1,97E-05
127	2,12E-05	1,90E-05	1,63E-05	1,63E-05	1,98E-05
128	2,40E-05	2,30E-05	1,59E-05	1,20E-04	2,34E-05
129	1,72E-05	1,23E-05	1,86E-05	3,44E-05	1,52E-05
130	1,82E-05	1,71E-05	1,92E-05	5,16E-05	1,79E-05
131	2,06E-05	2,48E-05	1,53E-05	4,14E-05	2,22E-05
132	1,79E-05	1,88E-05	1,63E-05	2,31E-05	1,82E-05
133	1,69E-05	1,78E-05	1,70E-05	9,34E-05	1,77E-05
134	1,78E-05	1,43E-05	1,83E-05	1,51E-04	1,69E-05
135	1,95E-05	2,45E-05	1,90E-05	1,31E-04	2,22E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
90	2,92E-04	3,93E-04	1,19E-04	2,27E-03	8,67E-04
91	2,95E-04	4,52E-04	1,56E-04	2,28E-03	8,90E-04
92	3,05E-04	4,26E-04	1,39E-04	2,18E-03	8,59E-04
93	2,81E-04	3,82E-04	1,43E-04	2,25E-03	8,57E-04
94	2,64E-04	3,97E-04	1,56E-04	2,27E-03	8,62E-04
95	2,97E-04	4,45E-04	9,51E-05	2,27E-03	8,83E-04
96	2,66E-04	4,14E-04	1,07E-04	2,22E-03	8,51E-04
97	2,70E-04	4,51E-04	1,15E-04	2,25E-03	8,71E-04
98	2,84E-04	4,47E-04	1,47E-04	2,33E-03	9,01E-04
99	2,82E-04	4,42E-04	1,71E-04	2,34E-03	9,02E-04
100	2,95E-04	4,18E-04	9,37E-05	2,32E-03	8,88E-04
101	2,81E-04	4,23E-04	1,20E-04	2,28E-03	8,74E-04
102	2,89E-04	4,26E-04	1,09E-04	2,30E-03	8,84E-04
103	2,95E-04	4,14E-04	8,08E-05	2,33E-03	8,90E-04
104	2,84E-04	3,97E-04	1,45E-04	2,36E-03	8,91E-04
105	2,94E-04	4,54E-04	1,29E-04	2,24E-03	8,80E-04
106	2,79E-04	4,18E-04	1,26E-04	2,26E-03	8,69E-04
107	2,87E-04	4,08E-04	1,47E-04	2,34E-03	8,93E-04
108	2,80E-04	4,14E-04	1,23E-04	2,15E-03	8,37E-04
109	2,63E-04	4,07E-04	1,24E-04	2,28E-03	8,64E-04
110	2,77E-04	4,35E-04	1,49E-04	2,33E-03	8,94E-04
111	2,89E-04	4,13E-04	1,14E-04	2,30E-03	8,79E-04
112	2,87E-04	4,26E-04	9,90E-05	2,33E-03	8,90E-04
113	2,87E-04	4,31E-04	1,91E-04	2,33E-03	8,99E-04
114	2,72E-04	4,62E-04	1,20E-04	2,25E-03	8,76E-04
115	2,88E-04	3,86E-04	1,41E-04	2,29E-03	8,70E-04
116	2,99E-04	4,38E-04	1,36E-04	2,23E-03	8,74E-04
117	3,07E-04	4,01E-04	1,21E-04	2,35E-03	8,98E-04
118	2,83E-04	4,50E-04	1,91E-04	2,24E-03	8,79E-04
119	3,09E-04	3,76E-04	1,51E-04	2,18E-03	8,46E-04
120	2,88E-04	4,49E-04	1,05E-04	2,25E-03	8,77E-04
121	2,63E-04	3,75E-04	1,57E-04	2,31E-03	8,64E-04
122	2,65E-04	3,85E-04	1,58E-04	2,24E-03	8,48E-04
123	2,69E-04	4,34E-04	2,05E-04	2,23E-03	8,65E-04
124	2,87E-04	4,31E-04	1,14E-04	2,28E-03	8,81E-04
125	2,96E-04	4,52E-04	1,55E-04	2,28E-03	8,94E-04
126	3,11E-04	4,19E-04	1,19E-04	2,24E-03	8,73E-04
127	2,89E-04	4,66E-04	1,43E-04	2,14E-03	8,54E-04
128	2,93E-04	4,32E-04	1,20E-04	2,28E-03	8,82E-04
129	3,01E-04	4,03E-04	1,19E-04	2,37E-03	9,00E-04
130	2,76E-04	4,80E-04	1,22E-04	2,21E-03	8,72E-04
131	2,82E-04	4,41E-04	1,43E-04	2,21E-03	8,64E-04
132	2,69E-04	4,26E-04	1,20E-04	2,18E-03	8,46E-04
133	2,80E-04	3,95E-04	1,02E-04	2,18E-03	8,36E-04
134	2,82E-04	4,36E-04	1,18E-04	2,28E-03	8,80E-04
135	2,95E-04	4,05E-04	1,52E-04	2,24E-03	8,67E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	6,76E-05	1,03E-04	3,30E-05	6,29E-04	2,50E-04
137	7,15E-05	1,01E-04	3,39E-05	5,87E-04	2,58E-04
138	7,03E-05	1,12E-04	3,19E-05	6,52E-04	2,60E-04
139	6,08E-05	9,50E-05	3,37E-05	5,72E-04	2,61E-04
140	6,63E-05	8,65E-05	2,95E-05	6,91E-04	2,61E-04
141	7,85E-05	9,40E-05	3,76E-05	6,46E-04	2,56E-04
142	7,34E-05	8,84E-05	4,52E-05	6,25E-04	2,47E-04
143	6,84E-05	8,71E-05	4,47E-05	6,62E-04	2,57E-04
144	5,42E-05	5,74E-05	3,11E-05	6,94E-04	2,61E-04
145	7,41E-05	9,58E-05	2,81E-05	6,23E-04	2,53E-04
146	6,18E-05	9,29E-05	4,27E-05	5,97E-04	2,60E-04
147	6,65E-05	8,30E-05	4,26E-05	5,55E-04	2,56E-04
148	8,46E-05	7,22E-05	3,27E-05	6,99E-04	2,55E-04
149	6,88E-05	9,47E-05	3,55E-05	6,28E-04	2,55E-04
150	7,07E-05	8,66E-05	4,08E-05	6,22E-04	2,62E-04
151	7,33E-05	7,84E-05	3,25E-05	6,09E-04	2,53E-04
152	7,16E-05	8,24E-05	3,10E-05	6,27E-04	2,54E-04
153	6,91E-05	9,31E-05	3,35E-05	6,11E-04	2,61E-04
154	6,71E-05	7,38E-05	4,48E-05	6,60E-04	2,45E-04
155	6,18E-05	8,30E-05	4,76E-05	6,65E-04	2,53E-04
156	7,06E-05	9,59E-05	2,59E-05	7,09E-04	2,53E-04
157	7,50E-05	6,75E-05	3,75E-05	5,90E-04	2,64E-04
158	6,38E-05	1,02E-04	3,76E-05	6,18E-04	2,56E-04
159	7,80E-05	7,88E-05	4,98E-05	6,25E-04	2,60E-04
160	6,58E-05	1,05E-04	3,51E-05	6,29E-04	2,52E-04
161	6,94E-05	1,07E-04	3,98E-05	6,75E-04	2,52E-04
162	9,41E-05	9,70E-05	4,17E-05	7,18E-04	2,51E-04
163	6,93E-05	1,04E-04	4,54E-05	6,41E-04	2,55E-04
164	6,57E-05	1,06E-04	2,96E-05	6,31E-04	2,46E-04
165	7,29E-05	8,65E-05	2,39E-05	6,59E-04	2,56E-04
166	6,54E-05	8,29E-05	4,48E-05	6,54E-04	2,54E-04
167	5,74E-05	1,06E-04	3,26E-05	6,12E-04	2,61E-04
168	7,38E-05	9,19E-05	3,72E-05	6,88E-04	2,54E-04
169	6,57E-05	7,99E-05	4,88E-05	6,04E-04	2,50E-04
170	6,50E-05	9,75E-05	2,57E-05	6,43E-04	2,49E-04
171	6,65E-05	8,65E-05	3,93E-05	5,99E-04	2,55E-04
172	6,22E-05	8,28E-05	3,65E-05	6,40E-04	2,52E-04
173	6,30E-05	1,07E-04	2,88E-05	6,05E-04	2,52E-04
174	6,41E-05	1,16E-04	3,31E-05	6,15E-04	2,57E-04
175	6,48E-05	8,33E-05	3,99E-05	7,12E-04	2,55E-04
176	7,35E-05	9,76E-05	4,45E-05	5,95E-04	2,50E-04
177	5,98E-05	8,82E-05	3,82E-05	6,84E-04	2,61E-04
178	6,71E-05	1,00E-04	3,15E-05	6,49E-04	2,59E-04
179	7,31E-05	1,11E-04	3,91E-05	6,04E-04	2,58E-04
180	6,91E-05	1,21E-04	3,88E-05	6,25E-04	2,55E-04
181	6,10E-05	9,75E-05	4,53E-05	6,96E-04	2,63E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	1,67E-05	1,97E-05	1,58E-05	1,38E-04	1,85E-05
137	2,18E-05	1,41E-05	1,75E-05	6,67E-05	1,83E-05
138	1,67E-05	2,48E-05	1,91E-05	1,66E-05	2,04E-05
139	2,15E-05	1,82E-05	1,65E-05	7,44E-05	1,99E-05
140	2,01E-05	2,51E-05	1,75E-05	4,89E-05	2,23E-05
141	1,77E-05	1,99E-05	1,77E-05	6,75E-05	1,89E-05
142	1,71E-05	1,42E-05	2,01E-05	5,78E-05	1,62E-05
143	1,99E-05	1,78E-05	2,04E-05	1,01E-04	1,94E-05
144	1,86E-05	3,35E-05	1,79E-05	8,29E-05	2,54E-05
145	1,76E-05	1,41E-05	1,68E-05	2,26E-05	1,60E-05
146	2,00E-05	1,78E-05	1,92E-05	1,19E-04	1,95E-05
147	2,08E-05	2,02E-05	1,82E-05	1,89E-04	2,12E-05
148	1,72E-05	1,41E-05	1,59E-05	2,59E-04	1,69E-05
149	1,98E-05	1,83E-05	2,03E-05	5,92E-05	1,94E-05
150	1,98E-05	1,78E-05	1,73E-05	1,76E-05	1,87E-05
151	2,14E-05	1,47E-05	1,88E-05	7,74E-05	1,85E-05
152	2,12E-05	1,71E-05	1,63E-05	1,40E-04	1,96E-05
153	1,92E-05	2,26E-05	1,70E-05	5,47E-05	2,07E-05
154	1,76E-05	1,58E-05	1,72E-05	4,07E-05	1,69E-05
155	1,84E-05	1,53E-05	1,72E-05	7,36E-05	1,72E-05
156	1,82E-05	2,50E-05	1,61E-05	1,04E-04	2,15E-05
157	1,82E-05	1,92E-05	1,85E-05	1,74E-04	1,94E-05
158	1,71E-05	1,83E-05	1,90E-05	9,56E-05	1,81E-05
159	2,25E-05	1,51E-05	1,65E-05	1,15E-04	1,92E-05
160	1,83E-05	2,05E-05	2,44E-05	4,42E-05	1,99E-05
161	1,71E-05	1,44E-05	1,96E-05	4,17E-05	1,62E-05
162	1,98E-05	1,30E-05	2,04E-05	1,07E-04	1,73E-05
163	2,00E-05	1,43E-05	1,96E-05	3,37E-04	1,90E-05
164	1,60E-05	1,91E-05	1,79E-05	6,53E-05	1,78E-05
165	2,04E-05	1,46E-05	1,68E-05	4,54E-05	1,77E-05
166	1,91E-05	2,36E-05	1,66E-05	5,16E-05	2,10E-05
167	1,74E-05	1,77E-05	1,72E-05	1,26E-04	1,80E-05
168	1,74E-05	2,70E-05	1,80E-05	7,52E-05	2,19E-05
169	2,17E-05	2,18E-05	1,88E-05	7,67E-05	2,18E-05
170	2,27E-05	1,75E-05	1,58E-05	6,19E-05	2,01E-05
171	1,99E-05	1,39E-05	1,98E-05	4,69E-05	1,74E-05
172	1,99E-05	1,89E-05	1,94E-05	3,32E-05	1,95E-05
173	1,85E-05	1,89E-05	1,96E-05	1,36E-04	1,93E-05
174	2,03E-05	2,23E-05	2,19E-05	8,10E-05	2,16E-05
175	1,99E-05	1,71E-05	2,06E-05	5,60E-05	1,89E-05
176	1,89E-05	1,37E-05	1,71E-05	2,80E-05	1,65E-05
177	1,94E-05	1,99E-05	1,82E-05	6,95E-05	1,98E-05
178	2,06E-05	2,61E-05	2,01E-05	1,45E-04	2,36E-05
179	2,07E-05	2,34E-05	1,67E-05	8,13E-05	2,19E-05
180	1,87E-05	1,82E-05	2,06E-05	1,46E-04	1,92E-05
181	1,98E-05	1,82E-05	2,03E-05	2,34E-05	1,92E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
136	2,64E-04	4,30E-04	1,29E-04	2,21E-03	8,53E-04
137	2,99E-04	4,14E-04	1,41E-04	2,30E-03	8,85E-04
138	2,94E-04	4,33E-04	1,23E-04	2,28E-03	8,85E-04
139	3,05E-04	4,31E-04	1,16E-04	2,30E-03	8,92E-04
140	2,74E-04	4,31E-04	1,58E-04	2,30E-03	8,83E-04
141	2,89E-04	4,29E-04	1,58E-04	2,26E-03	8,76E-04
142	2,46E-04	4,27E-04	8,79E-05	2,24E-03	8,51E-04
143	2,74E-04	4,30E-04	1,54E-04	2,28E-03	8,79E-04
144	2,74E-04	4,51E-04	9,98E-05	2,27E-03	8,78E-04
145	2,88E-04	4,03E-04	1,54E-04	2,28E-03	8,73E-04
146	2,91E-04	4,23E-04	1,55E-04	2,30E-03	8,88E-04
147	3,09E-04	3,97E-04	1,45E-04	2,25E-03	8,70E-04
148	2,79E-04	3,98E-04	1,06E-04	2,32E-03	8,78E-04
149	2,70E-04	4,15E-04	1,73E-04	2,28E-03	8,72E-04
150	2,96E-04	4,29E-04	1,13E-04	2,33E-03	8,96E-04
151	2,84E-04	3,78E-04	1,15E-04	2,29E-03	8,66E-04
152	2,75E-04	4,28E-04	1,60E-04	2,24E-03	8,67E-04
153	2,91E-04	4,07E-04	1,17E-04	2,34E-03	8,90E-04
154	2,64E-04	4,03E-04	1,51E-04	2,20E-03	8,43E-04
155	2,81E-04	4,13E-04	1,54E-04	2,27E-03	8,71E-04
156	2,74E-04	3,73E-04	1,46E-04	2,28E-03	8,58E-04
157	3,01E-04	4,63E-04	1,19E-04	2,31E-03	9,03E-04
158	2,94E-04	4,69E-04	1,31E-04	2,21E-03	8,76E-04
159	2,91E-04	4,32E-04	1,27E-04	2,30E-03	8,87E-04
160	2,83E-04	4,39E-04	2,01E-04	2,18E-03	8,60E-04
161	2,87E-04	4,32E-04	1,11E-04	2,24E-03	8,70E-04
162	2,88E-04	4,29E-04	1,12E-04	2,21E-03	8,61E-04
163	2,72E-04	4,04E-04	1,53E-04	2,29E-03	8,71E-04
164	2,70E-04	3,80E-04	1,45E-04	2,22E-03	8,44E-04
165	2,77E-04	4,41E-04	1,18E-04	2,28E-03	8,79E-04
166	2,72E-04	4,06E-04	1,25E-04	2,26E-03	8,62E-04
167	2,68E-04	4,29E-04	1,66E-04	2,35E-03	8,95E-04
168	2,78E-04	4,09E-04	1,16E-04	2,25E-03	8,60E-04
169	2,72E-04	4,18E-04	1,62E-04	2,19E-03	8,47E-04
170	2,81E-04	3,69E-04	1,44E-04	2,23E-03	8,47E-04
171	2,75E-04	4,35E-04	1,28E-04	2,27E-03	8,75E-04
172	2,95E-04	4,00E-04	1,81E-04	2,22E-03	8,61E-04
173	2,81E-04	4,40E-04	1,16E-04	2,20E-03	8,59E-04
174	2,89E-04	3,87E-04	1,35E-04	2,29E-03	8,71E-04
175	2,71E-04	4,16E-04	1,22E-04	2,29E-03	8,72E-04
176	2,80E-04	3,98E-04	1,70E-04	2,25E-03	8,61E-04
177	2,65E-04	4,28E-04	1,67E-04	2,34E-03	8,91E-04
178	3,07E-04	4,04E-04	1,63E-04	2,25E-03	8,74E-04
179	2,97E-04	4,17E-04	1,07E-04	2,27E-03	8,75E-04
180	2,81E-04	4,55E-04	1,27E-04	2,23E-03	8,72E-04
181	2,77E-04	4,80E-04	2,91E-04	2,27E-03	9,01E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	8,33E-05	7,58E-05	6,09E-05	6,24E-04	2,55E-04
183	7,07E-05	1,07E-04	4,99E-05	7,07E-04	2,57E-04
184	7,13E-05	9,37E-05	3,82E-05	7,14E-04	2,55E-04
185	6,97E-05	8,99E-05	4,18E-05	6,69E-04	2,56E-04
186	8,31E-05	1,03E-04	4,30E-05	5,87E-04	2,54E-04
187	6,63E-05	8,24E-05	4,02E-05	6,29E-04	2,52E-04
188	6,17E-05	1,40E-04	2,82E-05	6,50E-04	2,50E-04
189	7,51E-05	1,00E-04	3,89E-05	6,62E-04	2,44E-04
190	5,77E-05	8,47E-05	3,71E-05	6,35E-04	2,59E-04
191	7,56E-05	8,08E-05	5,61E-05	7,02E-04	2,46E-04
192	6,91E-05	6,96E-05	4,62E-05	6,84E-04	2,59E-04
193	6,34E-05	9,79E-05	4,09E-05	6,89E-04	2,53E-04
194	7,60E-05	9,03E-05	2,96E-05	6,27E-04	2,59E-04
195	6,23E-05	9,81E-05	3,90E-05	6,53E-04	2,54E-04
196	7,52E-05	8,19E-05	3,49E-05	6,35E-04	2,64E-04
197	6,40E-05	1,02E-04	3,70E-05	6,33E-04	2,60E-04
198	7,24E-05	9,52E-05	4,60E-05	6,46E-04	2,56E-04
199	7,71E-05	8,28E-05	3,29E-05	6,64E-04	2,58E-04
200	6,66E-05	9,46E-05	2,53E-05	6,86E-04	2,54E-04
201	7,27E-05	8,87E-05	4,04E-05	6,05E-04	2,55E-04
202	7,02E-05	1,30E-04	4,27E-05	6,57E-04	2,55E-04
203	6,53E-05	7,29E-05	2,95E-05	6,53E-04	2,57E-04
204	7,54E-05	7,12E-05	3,96E-05	6,09E-04	2,64E-04
205	7,09E-05	1,04E-04	3,89E-05	6,40E-04	2,57E-04
206	6,61E-05	8,39E-05	3,18E-05	6,61E-04	2,54E-04
207	6,20E-05	8,91E-05	4,40E-05	6,14E-04	2,56E-04
208	5,43E-05	9,34E-05	4,43E-05	6,35E-04	2,54E-04
209	6,74E-05	1,02E-04	4,57E-05	6,21E-04	2,51E-04
210	7,89E-05	9,24E-05	3,56E-05	6,90E-04	2,52E-04
211	6,30E-05	8,98E-05	3,47E-05	6,38E-04	2,57E-04
212	7,18E-05	1,10E-04	4,83E-05	6,02E-04	2,61E-04
213	6,93E-05	1,01E-04	5,16E-05	6,99E-04	2,62E-04
214	6,76E-05	1,11E-04	3,63E-05	6,99E-04	2,53E-04
215	8,28E-05	9,21E-05	3,14E-05	5,95E-04	2,52E-04
216	7,74E-05	8,78E-05	3,83E-05	5,97E-04	2,51E-04
217	7,58E-05	9,86E-05	3,96E-05	7,00E-04	2,53E-04
218	6,15E-05	1,06E-04	3,16E-05	6,77E-04	2,54E-04
219	6,66E-05	9,10E-05	3,37E-05	6,54E-04	2,55E-04
220	6,40E-05	1,02E-04	3,34E-05	6,27E-04	2,54E-04
221	7,02E-05	8,44E-05	3,45E-05	6,52E-04	2,49E-04
222	7,24E-05	9,75E-05	3,79E-05	6,79E-04	2,55E-04
223	7,77E-05	1,01E-04	3,13E-05	6,16E-04	2,56E-04
224	7,28E-05	8,16E-05	3,38E-05	7,00E-04	2,51E-04
225	7,35E-05	9,57E-05	4,31E-05	7,14E-04	2,52E-04
226	6,89E-05	1,09E-04	3,64E-05	6,66E-04	2,55E-04
227	6,59E-05	1,04E-04	3,61E-05	6,77E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	2,19E-05	2,19E-05	1,74E-05	5,64E-05	2,18E-05
183	2,16E-05	1,77E-05	1,78E-05	2,38E-04	2,07E-05
184	2,04E-05	1,37E-05	2,07E-05	1,28E-04	1,80E-05
185	1,74E-05	1,43E-05	1,71E-05	8,32E-05	1,63E-05
186	1,94E-05	1,53E-05	1,73E-05	1,03E-04	1,78E-05
187	1,82E-05	1,42E-05	1,58E-05	5,87E-05	1,64E-05
188	2,12E-05	1,93E-05	1,66E-05	5,20E-05	2,02E-05
189	1,77E-05	1,62E-05	1,68E-05	1,13E-04	1,74E-05
190	1,88E-05	3,09E-05	1,73E-05	5,21E-05	2,41E-05
191	1,80E-05	1,46E-05	2,07E-05	2,45E-05	1,67E-05
192	2,07E-05	1,33E-05	1,78E-05	1,20E-04	1,77E-05
193	1,88E-05	1,36E-05	1,61E-05	2,15E-04	1,73E-05
194	1,69E-05	1,70E-05	1,62E-05	8,45E-05	1,72E-05
195	2,16E-05	1,36E-05	1,77E-05	2,54E-05	1,78E-05
196	1,79E-05	1,87E-05	1,86E-05	9,44E-05	1,87E-05
197	2,04E-05	1,45E-05	1,67E-05	2,21E-04	1,85E-05
198	1,86E-05	2,31E-05	1,74E-05	3,08E-05	2,06E-05
199	1,91E-05	1,57E-05	1,69E-05	2,90E-05	1,75E-05
200	1,99E-05	2,10E-05	2,14E-05	3,85E-05	2,06E-05
201	1,79E-05	2,20E-05	1,96E-05	4,44E-05	1,99E-05
202	2,27E-05	1,73E-05	1,76E-05	2,81E-04	2,12E-05
203	1,98E-05	2,36E-05	1,71E-05	1,95E-05	2,13E-05
204	1,95E-05	2,14E-05	1,60E-05	1,90E-04	2,09E-05
205	1,68E-05	1,98E-05	1,91E-05	8,82E-05	1,86E-05
206	1,81E-05	2,78E-05	1,75E-05	3,50E-05	2,24E-05
207	1,85E-05	1,33E-05	1,90E-05	1,39E-04	1,68E-05
208	1,92E-05	1,34E-05	1,71E-05	6,83E-05	1,67E-05
209	1,75E-05	1,98E-05	1,65E-05	9,27E-05	1,88E-05
210	1,68E-05	2,12E-05	1,57E-05	5,78E-05	1,89E-05
211	2,05E-05	2,26E-05	1,68E-05	8,86E-05	2,15E-05
212	1,84E-05	1,36E-05	1,59E-05	1,13E-04	1,65E-05
213	1,86E-05	1,78E-05	1,65E-05	4,65E-05	1,82E-05
214	1,76E-05	1,83E-05	1,76E-05	5,10E-05	1,81E-05
215	1,88E-05	2,19E-05	1,65E-05	8,31E-05	2,03E-05
216	1,96E-05	1,37E-05	1,85E-05	6,40E-05	1,71E-05
217	1,73E-05	1,26E-05	1,57E-05	5,04E-05	1,53E-05
218	2,21E-05	2,01E-05	1,66E-05	8,06E-05	2,10E-05
219	1,81E-05	1,60E-05	1,79E-05	1,38E-04	1,78E-05
220	2,01E-05	1,51E-05	1,60E-05	7,23E-05	1,78E-05
221	1,91E-05	1,83E-05	1,95E-05	8,83E-05	1,91E-05
222	2,06E-05	1,45E-05	1,97E-05	4,71E-05	1,80E-05
223	1,86E-05	1,29E-05	1,68E-05	3,53E-05	1,60E-05
224	1,78E-05	1,46E-05	1,78E-05	5,30E-05	1,66E-05
225	1,86E-05	1,41E-05	1,66E-05	8,53E-05	1,68E-05
226	2,10E-05	2,59E-05	1,67E-05	5,97E-05	2,30E-05
227	1,76E-05	1,23E-05	1,71E-05	5,56E-05	1,54E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
182	2,84E-04	4,51E-04	9,97E-05	2,20E-03	8,63E-04
183	2,86E-04	4,02E-04	1,29E-04	2,29E-03	8,74E-04
184	2,86E-04	4,42E-04	9,01E-05	2,26E-03	8,75E-04
185	3,11E-04	3,75E-04	1,44E-04	2,31E-03	8,82E-04
186	2,86E-04	3,71E-04	1,26E-04	2,32E-03	8,72E-04
187	2,66E-04	4,32E-04	1,35E-04	2,25E-03	8,67E-04
188	2,81E-04	4,02E-04	1,38E-04	2,22E-03	8,52E-04
189	2,65E-04	3,97E-04	8,71E-05	2,20E-03	8,36E-04
190	2,83E-04	4,44E-04	1,53E-04	2,24E-03	8,73E-04
191	2,67E-04	3,76E-04	1,38E-04	2,24E-03	8,45E-04
192	2,85E-04	4,79E-04	1,27E-04	2,26E-03	8,90E-04
193	2,76E-04	4,48E-04	1,95E-04	2,21E-03	8,68E-04
194	2,78E-04	4,22E-04	1,80E-04	2,33E-03	8,92E-04
195	2,87E-04	3,97E-04	1,74E-04	2,27E-03	8,71E-04
196	2,88E-04	4,66E-04	1,36E-04	2,32E-03	9,05E-04
197	2,80E-04	4,44E-04	1,51E-04	2,30E-03	8,90E-04
198	2,90E-04	4,37E-04	8,51E-05	2,25E-03	8,72E-04
199	2,94E-04	4,11E-04	1,08E-04	2,32E-03	8,87E-04
200	2,81E-04	4,12E-04	1,91E-04	2,24E-03	8,66E-04
201	2,71E-04	4,29E-04	8,20E-05	2,28E-03	8,71E-04
202	2,74E-04	4,13E-04	1,04E-04	2,27E-03	8,67E-04
203	2,91E-04	4,26E-04	1,65E-04	2,25E-03	8,75E-04
204	3,01E-04	4,52E-04	1,35E-04	2,31E-03	9,01E-04
205	2,91E-04	4,06E-04	1,04E-04	2,31E-03	8,81E-04
206	2,78E-04	4,16E-04	1,30E-04	2,23E-03	8,59E-04
207	2,97E-04	3,97E-04	1,09E-04	2,32E-03	8,83E-04
208	2,95E-04	4,43E-04	1,23E-04	2,23E-03	8,74E-04
209	2,94E-04	4,05E-04	1,03E-04	2,23E-03	8,59E-04
210	2,85E-04	4,56E-04	1,23E-04	2,18E-03	8,60E-04
211	3,03E-04	4,15E-04	1,00E-04	2,25E-03	8,71E-04
212	2,93E-04	4,52E-04	1,51E-04	2,31E-03	9,00E-04
213	2,88E-04	4,30E-04	1,22E-04	2,35E-03	9,00E-04
214	2,69E-04	4,12E-04	1,23E-04	2,27E-03	8,66E-04
215	2,77E-04	3,68E-04	1,29E-04	2,27E-03	8,56E-04
216	3,02E-04	4,02E-04	1,65E-04	2,22E-03	8,61E-04
217	2,80E-04	4,35E-04	1,42E-04	2,26E-03	8,74E-04
218	3,02E-04	3,58E-04	1,20E-04	2,28E-03	8,62E-04
219	2,94E-04	4,59E-04	1,52E-04	2,21E-03	8,74E-04
220	2,82E-04	4,37E-04	1,32E-04	2,24E-03	8,70E-04
221	2,82E-04	3,82E-04	1,09E-04	2,24E-03	8,51E-04
222	2,77E-04	3,69E-04	1,30E-04	2,34E-03	8,75E-04
223	2,83E-04	4,52E-04	1,02E-04	2,27E-03	8,82E-04
224	3,01E-04	4,02E-04	1,28E-04	2,23E-03	8,64E-04
225	2,80E-04	4,52E-04	1,23E-04	2,22E-03	8,68E-04
226	2,62E-04	4,14E-04	1,35E-04	2,25E-03	8,60E-04
227	2,80E-04	4,15E-04	1,12E-04	2,35E-03	8,93E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	6,48E-05	9,81E-05	3,38E-05	7,10E-04	2,54E-04
229	6,57E-05	9,98E-05	3,99E-05	6,48E-04	2,58E-04
230	6,11E-05	5,86E-05	3,14E-05	6,84E-04	2,57E-04
231	7,91E-05	8,93E-05	3,98E-05	6,03E-04	2,55E-04
232	6,98E-05	8,61E-05	3,71E-05	6,37E-04	2,55E-04
233	7,40E-05	8,92E-05	4,78E-05	5,95E-04	2,55E-04
234	6,60E-05	7,97E-05	4,68E-05	6,39E-04	2,47E-04
235	8,01E-05	1,07E-04	3,81E-05	6,13E-04	2,48E-04
236	7,25E-05	1,07E-04	3,52E-05	5,99E-04	2,54E-04
237	7,40E-05	9,64E-05	3,44E-05	6,82E-04	2,45E-04
238	7,45E-05	1,01E-04	3,63E-05	5,87E-04	2,60E-04
239	7,76E-05	9,59E-05	2,89E-05	6,26E-04	2,45E-04
240	7,30E-05	1,02E-04	4,08E-05	6,61E-04	2,55E-04
241	7,44E-05	1,09E-04	2,86E-05	6,74E-04	2,59E-04
242	7,07E-05	8,23E-05	4,19E-05	6,49E-04	2,61E-04
243	6,37E-05	1,18E-04	4,06E-05	5,88E-04	2,58E-04
244	6,64E-05	1,16E-04	3,47E-05	7,07E-04	2,61E-04
245	6,77E-05	8,00E-05	3,80E-05	6,52E-04	2,55E-04
246	6,74E-05	8,68E-05	2,82E-05	6,50E-04	2,56E-04
247	7,66E-05	1,17E-04	3,01E-05	6,01E-04	2,59E-04
248	7,06E-05	9,91E-05	4,29E-05	7,19E-04	2,53E-04
249	6,37E-05	8,57E-05	4,67E-05	6,82E-04	2,56E-04
250	6,41E-05	1,04E-04	3,58E-05	6,69E-04	2,57E-04
251	7,36E-05	7,41E-05	4,23E-05	6,45E-04	2,58E-04
252	6,82E-05	8,87E-05	3,45E-05	6,27E-04	2,50E-04
253	6,05E-05	8,81E-05	4,53E-05	6,45E-04	2,60E-04
254	6,15E-05	9,68E-05	4,03E-05	7,36E-04	2,53E-04
255	7,22E-05	1,11E-04	3,47E-05	6,33E-04	2,52E-04
256	7,54E-05	1,15E-04	4,07E-05	6,53E-04	2,60E-04
257	6,96E-05	9,75E-05	3,89E-05	6,71E-04	2,61E-04
258	7,45E-05	1,16E-04	2,82E-05	6,53E-04	2,54E-04
259	6,29E-05	1,08E-04	4,03E-05	6,60E-04	2,56E-04
260	7,43E-05	7,26E-05	4,01E-05	7,08E-04	2,61E-04
261	6,59E-05	1,19E-04	4,15E-05	6,27E-04	2,56E-04
262	8,24E-05	8,94E-05	4,07E-05	6,68E-04	2,54E-04
263	7,01E-05	9,76E-05	3,24E-05	6,39E-04	2,61E-04
264	7,71E-05	8,97E-05	3,15E-05	7,22E-04	2,57E-04
265	6,96E-05	7,61E-05	3,02E-05	6,47E-04	2,60E-04
266	6,91E-05	9,00E-05	3,04E-05	6,83E-04	2,57E-04
267	7,09E-05	9,60E-05	2,69E-05	6,54E-04	2,62E-04
268	6,51E-05	5,87E-05	4,02E-05	6,74E-04	2,48E-04
269	7,66E-05	7,28E-05	4,01E-05	6,42E-04	2,47E-04
270	7,09E-05	1,05E-04	2,85E-05	7,03E-04	2,56E-04
271	6,81E-05	9,91E-05	3,16E-05	6,17E-04	2,57E-04
272	6,97E-05	8,79E-05	3,73E-05	6,99E-04	2,56E-04
273	7,23E-05	1,02E-04	3,78E-05	6,18E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	2,30E-05	1,30E-05	1,63E-05	5,67E-05	1,83E-05
229	2,12E-05	1,77E-05	1,67E-05	1,07E-04	1,97E-05
230	1,75E-05	2,03E-05	1,73E-05	4,01E-05	1,88E-05
231	2,05E-05	1,44E-05	1,98E-05	5,52E-05	1,79E-05
232	1,94E-05	1,50E-05	1,98E-05	1,49E-05	1,75E-05
233	1,89E-05	1,90E-05	1,63E-05	7,27E-05	1,90E-05
234	2,17E-05	1,28E-05	2,00E-05	4,15E-05	1,78E-05
235	1,87E-05	1,73E-05	1,61E-05	3,07E-04	1,93E-05
236	1,82E-05	1,59E-05	1,55E-05	1,98E-05	1,70E-05
237	1,86E-05	1,60E-05	1,78E-05	2,08E-05	1,74E-05
238	1,88E-05	2,28E-05	1,77E-05	1,56E-04	2,11E-05
239	2,03E-05	1,80E-05	1,74E-05	4,67E-05	1,92E-05
240	1,78E-05	1,47E-05	2,18E-05	2,85E-04	1,80E-05
241	1,86E-05	2,63E-05	1,66E-05	1,67E-04	2,26E-05
242	1,96E-05	1,41E-05	1,85E-05	8,90E-05	1,74E-05
243	1,78E-05	2,38E-05	1,70E-05	5,40E-05	2,06E-05
244	1,72E-05	1,71E-05	1,62E-05	6,12E-05	1,73E-05
245	2,00E-05	1,74E-05	1,73E-05	6,67E-05	1,89E-05
246	1,72E-05	1,70E-05	1,85E-05	5,34E-05	1,74E-05
247	1,78E-05	2,27E-05	1,63E-05	7,48E-05	2,01E-05
248	2,22E-05	1,77E-05	1,93E-05	7,04E-05	2,03E-05
249	1,75E-05	1,72E-05	1,75E-05	6,90E-05	1,76E-05
250	1,88E-05	1,26E-05	2,07E-05	7,78E-05	1,65E-05
251	1,99E-05	2,01E-05	1,82E-05	2,42E-04	2,09E-05
252	1,81E-05	1,21E-05	1,65E-05	5,65E-05	1,55E-05
253	2,07E-05	1,65E-05	1,77E-05	1,44E-04	1,92E-05
254	1,90E-05	2,13E-05	1,62E-05	6,61E-05	2,00E-05
255	2,14E-05	2,05E-05	2,09E-05	1,45E-04	2,16E-05
256	1,89E-05	1,62E-05	2,17E-05	1,25E-04	1,85E-05
257	2,18E-05	2,22E-05	1,57E-05	1,04E-04	2,19E-05
258	1,96E-05	1,43E-05	1,54E-05	1,48E-04	1,76E-05
259	1,98E-05	1,43E-05	1,66E-05	9,30E-05	1,75E-05
260	2,00E-05	1,93E-05	1,74E-05	2,61E-05	1,95E-05
261	1,98E-05	2,20E-05	1,65E-05	2,45E-04	2,16E-05
262	1,79E-05	2,03E-05	1,75E-05	1,33E-04	1,95E-05
263	2,01E-05	1,62E-05	2,19E-05	7,83E-05	1,88E-05
264	1,97E-05	2,71E-05	1,80E-05	1,58E-04	2,35E-05
265	1,94E-05	2,47E-05	2,32E-05	4,83E-05	2,22E-05
266	2,07E-05	2,27E-05	1,76E-05	1,42E-04	2,19E-05
267	1,98E-05	2,92E-05	1,64E-05	7,11E-05	2,39E-05
268	2,25E-05	1,85E-05	1,80E-05	3,23E-05	2,04E-05
269	1,96E-05	1,55E-05	1,73E-05	1,36E-04	1,82E-05
270	1,92E-05	1,50E-05	1,76E-05	1,01E-04	1,77E-05
271	1,75E-05	1,54E-05	1,85E-05	6,36E-05	1,68E-05
272	1,98E-05	1,43E-05	1,73E-05	1,10E-04	1,76E-05
273	1,82E-05	2,15E-05	1,69E-05	5,29E-05	1,97E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
228	2,87E-04	4,29E-04	1,07E-04	2,25E-03	8,70E-04
229	2,79E-04	4,19E-04	1,86E-04	2,29E-03	8,79E-04
230	2,78E-04	3,98E-04	1,77E-04	2,31E-03	8,79E-04
231	2,74E-04	4,07E-04	1,26E-04	2,30E-03	8,73E-04
232	2,92E-04	4,29E-04	1,81E-04	2,25E-03	8,78E-04
233	2,65E-04	5,14E-04	1,43E-04	2,18E-03	8,74E-04
234	2,86E-04	3,72E-04	1,98E-04	2,20E-03	8,45E-04
235	2,88E-04	4,09E-04	1,07E-04	2,18E-03	8,44E-04
236	2,97E-04	4,28E-04	1,45E-04	2,23E-03	8,72E-04
237	2,72E-04	4,31E-04	9,22E-05	2,16E-03	8,40E-04
238	2,67E-04	4,73E-04	8,96E-05	2,28E-03	8,84E-04
239	2,74E-04	4,12E-04	1,12E-04	2,15E-03	8,34E-04
240	2,42E-04	4,21E-04	1,60E-04	2,32E-03	8,76E-04
241	2,85E-04	4,24E-04	1,28E-04	2,28E-03	8,78E-04
242	2,87E-04	4,40E-04	1,28E-04	2,33E-03	8,97E-04
243	3,02E-04	4,20E-04	1,36E-04	2,27E-03	8,80E-04
244	2,72E-04	4,81E-04	1,84E-04	2,29E-03	8,97E-04
245	2,72E-04	4,57E-04	1,44E-04	2,24E-03	8,74E-04
246	2,82E-04	3,95E-04	1,22E-04	2,32E-03	8,79E-04
247	3,05E-04	3,96E-04	1,33E-04	2,31E-03	8,83E-04
248	2,73E-04	4,24E-04	9,09E-05	2,24E-03	8,60E-04
249	3,18E-04	4,44E-04	1,30E-04	2,22E-03	8,77E-04
250	2,99E-04	4,75E-04	1,17E-04	2,23E-03	8,85E-04
251	2,78E-04	4,64E-04	1,80E-04	2,23E-03	8,78E-04
252	2,71E-04	3,70E-04	1,56E-04	2,30E-03	8,62E-04
253	2,87E-04	4,19E-04	1,73E-04	2,31E-03	8,89E-04
254	2,86E-04	4,00E-04	1,23E-04	2,24E-03	8,60E-04
255	2,67E-04	3,72E-04	1,77E-04	2,27E-03	8,55E-04
256	2,75E-04	4,25E-04	1,80E-04	2,32E-03	8,90E-04
257	2,81E-04	4,63E-04	1,35E-04	2,26E-03	8,85E-04
258	2,82E-04	4,11E-04	1,41E-04	2,27E-03	8,71E-04
259	2,97E-04	4,17E-04	1,33E-04	2,27E-03	8,78E-04
260	2,87E-04	4,20E-04	1,19E-04	2,33E-03	8,92E-04
261	2,84E-04	4,35E-04	1,13E-04	2,24E-03	8,68E-04
262	2,80E-04	4,23E-04	8,97E-05	2,25E-03	8,66E-04
263	2,74E-04	4,57E-04	1,45E-04	2,30E-03	8,92E-04
264	2,79E-04	3,91E-04	1,11E-04	2,28E-03	8,66E-04
265	2,66E-04	3,87E-04	1,37E-04	2,36E-03	8,82E-04
266	2,71E-04	4,72E-04	1,21E-04	2,22E-03	8,71E-04
267	2,86E-04	4,97E-04	1,28E-04	2,22E-03	8,86E-04
268	2,51E-04	3,65E-04	1,06E-04	2,27E-03	8,44E-04
269	2,94E-04	4,05E-04	1,37E-04	2,17E-03	8,45E-04
270	2,67E-04	4,55E-04	1,14E-04	2,28E-03	8,80E-04
271	2,72E-04	3,78E-04	1,45E-04	2,36E-03	8,83E-04
272	3,03E-04	4,14E-04	1,50E-04	2,27E-03	8,81E-04
273	2,55E-04	4,63E-04	2,43E-04	2,23E-03	8,73E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	7,04E-05	1,06E-04	3,29E-05	6,99E-04	2,61E-04
275	6,69E-05	7,78E-05	3,24E-05	7,17E-04	2,57E-04
276	6,78E-05	9,02E-05	3,05E-05	6,42E-04	2,57E-04
277	7,94E-05	9,55E-05	4,02E-05	6,06E-04	2,58E-04
278	7,96E-05	9,16E-05	3,75E-05	6,24E-04	2,46E-04
279	7,15E-05	1,07E-04	4,62E-05	6,67E-04	2,52E-04
280	7,48E-05	8,95E-05	2,85E-05	6,84E-04	2,51E-04
281	7,19E-05	8,49E-05	3,84E-05	6,84E-04	2,52E-04
282	7,09E-05	9,65E-05	2,94E-05	6,57E-04	2,65E-04
283	7,72E-05	8,32E-05	3,65E-05	7,19E-04	2,53E-04
284	7,80E-05	7,38E-05	3,27E-05	6,20E-04	2,52E-04
285	6,70E-05	8,96E-05	4,34E-05	6,50E-04	2,52E-04
286	7,09E-05	9,56E-05	3,29E-05	6,97E-04	2,59E-04
287	7,31E-05	1,10E-04	4,13E-05	6,23E-04	2,58E-04
288	5,86E-05	9,04E-05	3,20E-05	7,22E-04	2,58E-04
289	8,13E-05	1,07E-04	2,75E-05	5,79E-04	2,54E-04
290	6,90E-05	8,82E-05	4,71E-05	6,37E-04	2,49E-04
291	7,88E-05	1,04E-04	3,98E-05	6,70E-04	2,52E-04
292	7,44E-05	8,66E-05	3,27E-05	6,64E-04	2,56E-04
293	6,88E-05	1,01E-04	3,10E-05	6,25E-04	2,53E-04
294	6,18E-05	1,04E-04	3,50E-05	6,12E-04	2,50E-04
295	6,84E-05	9,75E-05	4,77E-05	5,99E-04	2,58E-04
296	7,28E-05	1,01E-04	3,85E-05	6,19E-04	2,55E-04
297	6,94E-05	1,00E-04	3,59E-05	6,66E-04	2,61E-04
298	6,98E-05	9,16E-05	3,25E-05	6,03E-04	2,62E-04
299	6,19E-05	9,65E-05	3,78E-05	5,63E-04	2,64E-04
300	5,70E-05	9,48E-05	2,86E-05	6,41E-04	2,58E-04
301	7,51E-05	1,00E-04	4,74E-05	6,74E-04	2,58E-04
302	7,23E-05	8,46E-05	3,97E-05	6,51E-04	2,51E-04
303	6,57E-05	9,55E-05	3,14E-05	6,40E-04	2,53E-04
304	6,43E-05	8,71E-05	4,98E-05	7,38E-04	2,51E-04
305	6,32E-05	8,20E-05	3,88E-05	6,53E-04	2,47E-04
306	7,36E-05	9,63E-05	4,09E-05	6,13E-04	2,57E-04
307	7,21E-05	7,12E-05	2,76E-05	6,17E-04	2,63E-04
308	7,14E-05	1,11E-04	2,76E-05	6,40E-04	2,54E-04
309	6,76E-05	1,25E-04	3,44E-05	6,45E-04	2,50E-04
310	6,48E-05	9,40E-05	3,38E-05	6,04E-04	2,57E-04
311	7,35E-05	9,72E-05	3,19E-05	5,51E-04	2,59E-04
312	6,22E-05	8,85E-05	5,53E-05	6,60E-04	2,50E-04
313	6,72E-05	9,04E-05	3,52E-05	6,13E-04	2,58E-04
314	7,80E-05	8,08E-05	2,99E-05	6,61E-04	2,55E-04
315	7,37E-05	7,83E-05	4,88E-05	6,36E-04	2,51E-04
316	6,14E-05	9,17E-05	3,63E-05	6,01E-04	2,60E-04
317	6,76E-05	8,19E-05	2,85E-05	6,60E-04	2,56E-04
318	6,04E-05	7,11E-05	3,30E-05	6,14E-04	2,57E-04
319	6,66E-05	7,16E-05	3,85E-05	6,89E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	1,98E-05	1,79E-05	2,02E-05	1,05E-04	1,94E-05
275	2,45E-05	1,55E-05	1,71E-05	5,51E-05	2,01E-05
276	2,24E-05	2,53E-05	2,03E-05	1,78E-05	2,35E-05
277	1,90E-05	2,02E-05	2,00E-05	6,25E-05	1,98E-05
278	2,15E-05	1,71E-05	1,65E-05	9,09E-05	1,96E-05
279	2,09E-05	1,19E-05	1,94E-05	5,16E-05	1,70E-05
280	1,78E-05	1,70E-05	1,77E-05	1,37E-04	1,80E-05
281	1,84E-05	2,38E-05	1,91E-05	3,77E-05	2,09E-05
282	2,02E-05	1,25E-05	1,66E-05	1,28E-04	1,70E-05
283	2,15E-05	1,38E-05	1,77E-05	1,89E-05	1,78E-05
284	1,67E-05	1,87E-05	1,74E-05	1,34E-04	1,82E-05
285	1,99E-05	1,74E-05	1,58E-05	1,20E-04	1,90E-05
286	1,62E-05	1,68E-05	2,06E-05	6,24E-05	1,71E-05
287	1,78E-05	1,95E-05	1,78E-05	7,20E-05	1,88E-05
288	1,87E-05	1,74E-05	1,57E-05	6,11E-05	1,81E-05
289	1,79E-05	1,32E-05	1,93E-05	5,01E-05	1,61E-05
290	2,04E-05	1,63E-05	1,64E-05	1,21E-04	1,88E-05
291	2,05E-05	1,75E-05	1,60E-05	1,00E-04	1,92E-05
292	1,74E-05	1,87E-05	1,79E-05	5,58E-05	1,82E-05
293	2,07E-05	1,74E-05	1,73E-05	6,45E-05	1,92E-05
294	1,75E-05	1,91E-05	1,95E-05	8,75E-05	1,87E-05
295	2,15E-05	1,83E-05	1,64E-05	4,24E-05	1,98E-05
296	1,95E-05	2,15E-05	2,27E-05	8,92E-05	2,10E-05
297	1,97E-05	1,49E-05	1,71E-05	1,39E-04	1,79E-05
298	2,15E-05	1,93E-05	1,63E-05	1,25E-04	2,07E-05
299	1,81E-05	1,65E-05	1,69E-05	9,96E-05	1,77E-05
300	2,21E-05	2,07E-05	1,71E-05	1,19E-04	2,16E-05
301	1,91E-05	1,77E-05	1,69E-05	4,49E-05	1,84E-05
302	1,89E-05	1,65E-05	1,76E-05	6,18E-05	1,80E-05
303	2,07E-05	1,50E-05	1,49E-05	9,21E-05	1,81E-05
304	2,12E-05	1,27E-05	1,92E-05	5,71E-05	1,74E-05
305	1,95E-05	1,67E-05	1,79E-05	2,60E-05	1,82E-05
306	2,12E-05	1,82E-05	1,83E-05	6,82E-05	1,99E-05
307	1,81E-05	2,08E-05	1,81E-05	2,99E-04	2,06E-05
308	2,28E-05	1,93E-05	1,66E-05	9,46E-05	2,11E-05
309	1,83E-05	1,86E-05	1,68E-05	2,87E-05	1,83E-05
310	2,02E-05	2,85E-05	1,75E-05	2,00E-04	2,45E-05
311	1,95E-05	1,81E-05	1,71E-05	7,15E-05	1,89E-05
312	1,79E-05	1,39E-05	1,81E-05	1,78E-04	1,69E-05
313	1,61E-05	2,32E-05	1,64E-05	7,43E-05	1,95E-05
314	1,68E-05	1,33E-05	1,65E-05	3,80E-05	1,53E-05
315	1,88E-05	1,83E-05	1,64E-05	7,40E-05	1,87E-05
316	1,96E-05	1,74E-05	1,66E-05	8,77E-05	1,87E-05
317	2,00E-05	1,46E-05	1,66E-05	3,01E-05	1,74E-05
318	1,91E-05	1,45E-05	2,07E-05	6,37E-05	1,74E-05
319	1,77E-05	2,24E-05	2,32E-05	2,51E-05	2,02E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
274	2,78E-04	4,32E-04	1,30E-04	2,33E-03	8,91E-04
275	2,80E-04	4,31E-04	1,43E-04	2,27E-03	8,76E-04
276	2,41E-04	4,90E-04	1,18E-04	2,22E-03	8,66E-04
277	3,10E-04	4,30E-04	1,76E-04	2,24E-03	8,81E-04
278	2,70E-04	3,96E-04	1,18E-04	2,19E-03	8,37E-04
279	2,78E-04	4,25E-04	1,11E-04	2,25E-03	8,65E-04
280	2,68E-04	4,09E-04	1,54E-04	2,25E-03	8,60E-04
281	2,55E-04	3,68E-04	1,46E-04	2,29E-03	8,55E-04
282	2,96E-04	4,80E-04	1,44E-04	2,32E-03	9,13E-04
283	2,63E-04	4,24E-04	1,09E-04	2,28E-03	8,69E-04
284	2,89E-04	3,91E-04	1,20E-04	2,26E-03	8,64E-04
285	2,60E-04	3,93E-04	1,40E-04	2,29E-03	8,62E-04
286	2,83E-04	4,21E-04	1,77E-04	2,32E-03	8,90E-04
287	2,85E-04	4,21E-04	9,62E-05	2,31E-03	8,84E-04
288	2,79E-04	4,78E-04	1,26E-04	2,25E-03	8,85E-04
289	2,91E-04	3,75E-04	1,66E-04	2,31E-03	8,76E-04
290	2,72E-04	4,20E-04	1,26E-04	2,21E-03	8,52E-04
291	2,75E-04	4,27E-04	1,11E-04	2,24E-03	8,62E-04
292	2,85E-04	4,70E-04	1,33E-04	2,22E-03	8,77E-04
293	2,60E-04	4,21E-04	1,09E-04	2,27E-03	8,63E-04
294	2,96E-04	4,16E-04	1,17E-04	2,20E-03	8,55E-04
295	2,91E-04	4,01E-04	9,18E-05	2,32E-03	8,82E-04
296	2,68E-04	4,34E-04	1,63E-04	2,24E-03	8,65E-04
297	2,74E-04	4,51E-04	1,79E-04	2,32E-03	8,96E-04
298	3,05E-04	4,59E-04	1,52E-04	2,27E-03	8,94E-04
299	3,15E-04	4,67E-04	1,58E-04	2,29E-03	9,06E-04
300	3,17E-04	4,13E-04	1,13E-04	2,25E-03	8,75E-04
301	2,89E-04	3,65E-04	1,78E-04	2,36E-03	8,86E-04
302	2,64E-04	4,01E-04	1,87E-04	2,26E-03	8,61E-04
303	2,71E-04	3,93E-04	1,30E-04	2,29E-03	8,66E-04
304	2,80E-04	3,79E-04	1,70E-04	2,27E-03	8,62E-04
305	2,81E-04	4,02E-04	1,48E-04	2,19E-03	8,47E-04
306	3,05E-04	3,89E-04	1,26E-04	2,30E-03	8,79E-04
307	2,98E-04	4,43E-04	1,28E-04	2,31E-03	8,96E-04
308	2,85E-04	3,78E-04	9,61E-05	2,28E-03	8,62E-04
309	2,89E-04	3,71E-04	8,02E-05	2,27E-03	8,57E-04
310	2,86E-04	4,27E-04	9,87E-05	2,23E-03	8,64E-04
311	2,84E-04	4,67E-04	1,73E-04	2,25E-03	8,85E-04
312	2,83E-04	4,13E-04	1,38E-04	2,22E-03	8,58E-04
313	2,85E-04	4,25E-04	1,72E-04	2,28E-03	8,80E-04
314	2,73E-04	4,06E-04	1,65E-04	2,32E-03	8,82E-04
315	2,67E-04	4,35E-04	2,49E-04	2,20E-03	8,59E-04
316	2,87E-04	4,36E-04	1,61E-04	2,30E-03	8,89E-04
317	2,76E-04	3,81E-04	1,79E-04	2,33E-03	8,79E-04
318	2,75E-04	4,09E-04	1,34E-04	2,32E-03	8,82E-04
319	2,94E-04	4,24E-04	1,56E-04	2,27E-03	8,81E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	5,76E-05	9,18E-05	4,87E-05	6,18E-04	2,60E-04
321	6,75E-05	9,59E-05	3,87E-05	6,54E-04	2,49E-04
322	6,33E-05	8,10E-05	4,32E-05	6,93E-04	2,52E-04
323	8,26E-05	7,05E-05	2,67E-05	6,45E-04	2,51E-04
324	7,34E-05	9,78E-05	4,28E-05	6,72E-04	2,61E-04
325	7,82E-05	8,90E-05	3,39E-05	6,64E-04	2,46E-04
326	7,34E-05	1,08E-04	3,46E-05	6,75E-04	2,52E-04
327	6,97E-05	1,13E-04	3,45E-05	6,67E-04	2,51E-04
328	6,81E-05	9,79E-05	5,07E-05	7,08E-04	2,55E-04
329	7,38E-05	7,76E-05	3,78E-05	6,53E-04	2,56E-04
330	6,96E-05	8,32E-05	3,61E-05	6,60E-04	2,54E-04
331	6,31E-05	7,53E-05	3,88E-05	6,23E-04	2,64E-04
332	6,30E-05	7,92E-05	3,09E-05	6,67E-04	2,59E-04
333	8,23E-05	8,53E-05	3,17E-05	6,30E-04	2,58E-04
334	6,37E-05	8,28E-05	3,58E-05	6,41E-04	2,62E-04
335	6,92E-05	8,20E-05	4,19E-05	6,26E-04	2,56E-04
336	5,89E-05	1,11E-04	3,68E-05	5,97E-04	2,58E-04
337	6,29E-05	1,12E-04	4,31E-05	6,09E-04	2,52E-04
338	6,55E-05	1,06E-04	2,81E-05	5,87E-04	2,50E-04
339	7,89E-05	1,03E-04	4,63E-05	6,52E-04	2,58E-04
340	7,23E-05	9,63E-05	4,19E-05	6,56E-04	2,53E-04
341	6,94E-05	7,91E-05	3,17E-05	6,44E-04	2,55E-04
342	6,58E-05	9,53E-05	3,05E-05	6,42E-04	2,42E-04
343	6,60E-05	9,92E-05	3,49E-05	6,49E-04	2,60E-04
344	6,77E-05	1,04E-04	4,64E-05	6,79E-04	2,49E-04
345	6,61E-05	9,70E-05	4,55E-05	6,40E-04	2,59E-04
346	6,88E-05	1,06E-04	4,13E-05	6,50E-04	2,52E-04
347	7,25E-05	8,01E-05	4,33E-05	6,15E-04	2,60E-04
348	7,37E-05	1,05E-04	2,45E-05	6,24E-04	2,56E-04
349	7,44E-05	8,12E-05	3,12E-05	6,67E-04	2,61E-04
350	6,51E-05	7,39E-05	4,00E-05	7,17E-04	2,53E-04
351	6,75E-05	8,24E-05	3,19E-05	7,18E-04	2,58E-04
352	6,75E-05	7,52E-05	3,87E-05	6,55E-04	2,56E-04
353	7,24E-05	9,71E-05	3,85E-05	6,34E-04	2,49E-04
354	8,30E-05	1,19E-04	3,83E-05	7,06E-04	2,54E-04
355	7,05E-05	9,73E-05	3,78E-05	6,14E-04	2,53E-04
356	6,42E-05	7,62E-05	3,26E-05	6,12E-04	2,58E-04
357	6,87E-05	9,75E-05	4,78E-05	5,75E-04	2,59E-04
358	6,15E-05	1,06E-04	4,03E-05	7,30E-04	2,56E-04
359	7,43E-05	7,32E-05	3,11E-05	6,58E-04	2,51E-04
360	6,34E-05	1,01E-04	3,21E-05	6,30E-04	2,57E-04
361	6,73E-05	1,13E-04	4,05E-05	6,50E-04	2,55E-04
362	6,28E-05	8,99E-05	4,36E-05	6,24E-04	2,55E-04
363	6,51E-05	8,45E-05	3,07E-05	6,80E-04	2,54E-04
364	6,50E-05	9,95E-05	2,56E-05	7,08E-04	2,63E-04
365	6,99E-05	1,02E-04	3,32E-05	6,40E-04	2,55E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	1,87E-05	2,23E-05	1,83E-05	1,83E-04	2,10E-05
321	2,12E-05	1,90E-05	2,11E-05	3,04E-05	2,03E-05
322	1,80E-05	2,58E-05	1,64E-05	4,21E-05	2,14E-05
323	2,15E-05	1,55E-05	1,78E-05	2,74E-05	1,86E-05
324	2,01E-05	1,83E-05	1,75E-05	6,53E-05	1,94E-05
325	1,86E-05	1,57E-05	1,73E-05	7,25E-05	1,75E-05
326	1,87E-05	1,86E-05	1,84E-05	2,32E-04	1,97E-05
327	1,86E-05	1,19E-05	2,14E-05	7,89E-05	1,62E-05
328	1,71E-05	1,75E-05	1,84E-05	7,57E-05	1,77E-05
329	1,77E-05	1,62E-05	1,68E-05	6,72E-05	1,72E-05
330	1,84E-05	1,83E-05	1,65E-05	7,84E-05	1,85E-05
331	1,96E-05	1,70E-05	1,73E-05	1,82E-04	1,90E-05
332	1,64E-05	1,99E-05	1,72E-05	1,01E-04	1,84E-05
333	2,11E-05	1,89E-05	1,53E-05	2,38E-05	1,97E-05
334	2,00E-05	2,05E-05	1,64E-05	7,17E-05	2,02E-05
335	1,79E-05	2,32E-05	1,54E-05	6,89E-05	2,03E-05
336	1,73E-05	2,61E-05	1,57E-05	3,03E-05	2,11E-05
337	1,96E-05	2,14E-05	1,66E-05	4,96E-05	2,03E-05
338	2,01E-05	3,02E-05	1,85E-05	5,36E-05	2,46E-05
339	1,99E-05	1,72E-05	2,11E-05	1,91E-05	1,88E-05
340	1,96E-05	1,21E-05	1,68E-05	9,38E-05	1,64E-05
341	2,00E-05	1,84E-05	1,81E-05	1,76E-04	1,99E-05
342	1,85E-05	1,42E-05	2,23E-05	4,67E-05	1,70E-05
343	2,04E-05	1,81E-05	1,82E-05	1,22E-04	1,97E-05
344	1,95E-05	1,77E-05	1,60E-05	6,77E-05	1,86E-05
345	2,21E-05	2,37E-05	1,62E-05	6,49E-05	2,26E-05
346	1,83E-05	2,46E-05	1,60E-05	1,43E-04	2,15E-05
347	2,11E-05	2,33E-05	1,67E-05	1,42E-05	2,17E-05
348	2,12E-05	1,70E-05	1,60E-05	1,22E-04	1,95E-05
349	1,91E-05	1,65E-05	1,67E-05	7,38E-05	1,80E-05
350	2,02E-05	2,53E-05	1,87E-05	8,46E-05	2,27E-05
351	1,99E-05	2,01E-05	1,81E-05	7,47E-05	2,01E-05
352	1,91E-05	2,22E-05	1,72E-05	1,52E-04	2,09E-05
353	1,98E-05	1,45E-05	2,05E-05	1,92E-05	1,75E-05
354	2,19E-05	1,85E-05	1,70E-05	3,95E-05	2,01E-05
355	1,98E-05	1,93E-05	1,65E-05	2,97E-05	1,94E-05
356	2,11E-05	1,69E-05	1,69E-05	1,18E-04	1,94E-05
357	2,04E-05	2,11E-05	1,66E-05	1,14E-04	2,09E-05
358	1,93E-05	1,61E-05	1,65E-05	1,17E-04	1,81E-05
359	1,75E-05	1,92E-05	1,69E-05	1,23E-04	1,87E-05
360	1,96E-05	2,71E-05	1,85E-05	8,74E-05	2,32E-05
361	1,73E-05	1,44E-05	1,61E-05	2,95E-05	1,60E-05
362	1,98E-05	1,84E-05	1,72E-05	1,94E-05	1,90E-05
363	1,88E-05	1,63E-05	1,79E-05	9,15E-05	1,80E-05
364	1,82E-05	1,31E-05	1,67E-05	1,79E-04	1,66E-05
365	2,35E-05	1,71E-05	1,67E-05	9,58E-05	2,05E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
320	2,83E-04	4,42E-04	1,03E-04	2,29E-03	8,84E-04
321	2,93E-04	3,99E-04	1,22E-04	2,19E-03	8,46E-04
322	2,64E-04	4,17E-04	1,37E-04	2,22E-03	8,53E-04
323	2,71E-04	4,31E-04	8,87E-05	2,23E-03	8,59E-04
324	2,82E-04	4,33E-04	1,70E-04	2,32E-03	8,94E-04
325	2,84E-04	4,29E-04	1,15E-04	2,16E-03	8,44E-04
326	2,75E-04	4,30E-04	1,83E-04	2,21E-03	8,60E-04
327	2,89E-04	4,31E-04	1,19E-04	2,22E-03	8,64E-04
328	2,64E-04	3,77E-04	1,22E-04	2,35E-03	8,75E-04
329	2,80E-04	4,24E-04	1,10E-04	2,29E-03	8,79E-04
330	2,85E-04	4,16E-04	1,38E-04	2,26E-03	8,71E-04
331	3,06E-04	4,69E-04	1,28E-04	2,30E-03	9,06E-04
332	3,00E-04	4,74E-04	9,43E-05	2,25E-03	8,89E-04
333	2,74E-04	4,19E-04	1,75E-04	2,30E-03	8,80E-04
334	2,96E-04	4,48E-04	1,67E-04	2,29E-03	8,94E-04
335	2,83E-04	4,61E-04	1,41E-04	2,22E-03	8,72E-04
336	3,06E-04	4,07E-04	1,32E-04	2,26E-03	8,76E-04
337	2,88E-04	3,60E-04	1,61E-04	2,27E-03	8,58E-04
338	2,75E-04	4,20E-04	1,23E-04	2,16E-03	8,40E-04
339	2,83E-04	4,31E-04	1,83E-04	2,28E-03	8,83E-04
340	2,92E-04	4,27E-04	9,79E-05	2,25E-03	8,71E-04
341	2,86E-04	3,88E-04	1,33E-04	2,28E-03	8,68E-04
342	2,58E-04	3,66E-04	1,07E-04	2,22E-03	8,31E-04
343	2,81E-04	4,12E-04	1,74E-04	2,32E-03	8,86E-04
344	2,91E-04	3,98E-04	1,38E-04	2,20E-03	8,51E-04
345	2,76E-04	4,07E-04	1,67E-04	2,29E-03	8,76E-04
346	2,53E-04	4,12E-04	1,25E-04	2,25E-03	8,54E-04
347	2,81E-04	4,65E-04	2,05E-04	2,24E-03	8,84E-04
348	2,90E-04	4,01E-04	2,22E-04	2,26E-03	8,74E-04
349	3,00E-04	4,63E-04	1,40E-04	2,28E-03	8,95E-04
350	2,83E-04	3,56E-04	1,39E-04	2,27E-03	8,54E-04
351	2,87E-04	4,11E-04	8,96E-05	2,31E-03	8,80E-04
352	2,82E-04	3,93E-04	2,02E-04	2,27E-03	8,69E-04
353	3,03E-04	4,01E-04	1,62E-04	2,19E-03	8,53E-04
354	2,49E-04	4,43E-04	1,53E-04	2,25E-03	8,65E-04
355	2,86E-04	3,86E-04	1,17E-04	2,27E-03	8,63E-04
356	2,83E-04	4,63E-04	1,29E-04	2,25E-03	8,82E-04
357	2,79E-04	4,09E-04	1,05E-04	2,32E-03	8,82E-04
358	2,68E-04	4,23E-04	1,21E-04	2,31E-03	8,79E-04
359	2,89E-04	3,98E-04	1,29E-04	2,23E-03	8,56E-04
360	2,86E-04	3,93E-04	1,50E-04	2,27E-03	8,67E-04
361	2,85E-04	4,24E-04	1,51E-04	2,28E-03	8,79E-04
362	2,82E-04	4,22E-04	1,42E-04	2,26E-03	8,72E-04
363	2,81E-04	4,23E-04	1,94E-04	2,24E-03	8,69E-04
364	2,77E-04	5,19E-04	1,61E-04	2,28E-03	9,07E-04
365	2,97E-04	4,11E-04	1,51E-04	2,24E-03	8,68E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	7,91E-05	9,58E-05	3,37E-05	6,68E-04	2,50E-04
367	6,33E-05	7,46E-05	3,63E-05	6,59E-04	2,56E-04
368	6,15E-05	1,13E-04	3,58E-05	7,01E-04	2,55E-04
369	7,35E-05	9,25E-05	4,07E-05	6,68E-04	2,55E-04
370	6,93E-05	7,67E-05	4,44E-05	5,88E-04	2,55E-04
371	6,26E-05	1,03E-04	2,86E-05	5,44E-04	2,53E-04
372	6,64E-05	8,54E-05	3,61E-05	6,54E-04	2,64E-04
373	7,08E-05	8,49E-05	2,66E-05	5,89E-04	2,59E-04
374	7,36E-05	9,37E-05	3,98E-05	6,90E-04	2,49E-04
375	7,54E-05	1,24E-04	2,79E-05	5,76E-04	2,59E-04
376	8,10E-05	9,57E-05	3,87E-05	6,58E-04	2,55E-04
377	6,58E-05	9,69E-05	2,75E-05	6,35E-04	2,42E-04
378	7,41E-05	7,32E-05	3,82E-05	6,82E-04	2,49E-04
379	7,08E-05	8,37E-05	2,93E-05	6,61E-04	2,57E-04
380	6,45E-05	9,05E-05	4,18E-05	5,88E-04	2,56E-04
381	6,61E-05	9,44E-05	3,34E-05	6,29E-04	2,54E-04
382	6,80E-05	1,07E-04	4,75E-05	5,85E-04	2,50E-04
383	6,81E-05	8,94E-05	4,32E-05	6,21E-04	2,54E-04
384	6,99E-05	8,49E-05	4,07E-05	5,83E-04	2,56E-04
385	7,04E-05	7,91E-05	3,57E-05	6,62E-04	2,45E-04
386	6,46E-05	9,31E-05	3,81E-05	5,82E-04	2,62E-04
387	7,48E-05	8,93E-05	3,67E-05	6,19E-04	2,50E-04
388	6,92E-05	6,32E-05	3,10E-05	6,56E-04	2,55E-04
389	7,05E-05	5,66E-05	4,28E-05	6,64E-04	2,59E-04
390	6,24E-05	1,06E-04	4,20E-05	6,47E-04	2,48E-04
391	7,44E-05	9,42E-05	3,05E-05	6,67E-04	2,49E-04
392	6,61E-05	8,77E-05	5,06E-05	6,62E-04	2,62E-04
393	7,03E-05	5,98E-05	3,85E-05	6,24E-04	2,50E-04
394	6,72E-05	8,21E-05	4,43E-05	6,58E-04	2,59E-04
395	7,69E-05	7,60E-05	3,47E-05	6,49E-04	2,56E-04
396	6,85E-05	9,08E-05	4,25E-05	6,68E-04	2,62E-04
397	6,97E-05	7,55E-05	4,04E-05	6,95E-04	2,52E-04
398	7,81E-05	8,02E-05	4,35E-05	7,01E-04	2,57E-04
399	5,92E-05	8,68E-05	5,10E-05	6,58E-04	2,57E-04
400	7,15E-05	1,07E-04	3,43E-05	6,46E-04	2,52E-04
401	6,52E-05	6,51E-05	2,75E-05	7,24E-04	2,60E-04
402	7,01E-05	1,07E-04	3,66E-05	6,40E-04	2,56E-04
403	6,94E-05	8,88E-05	3,12E-05	6,45E-04	2,51E-04
404	7,43E-05	9,86E-05	3,60E-05	6,12E-04	2,60E-04
405	7,24E-05	9,40E-05	3,73E-05	5,59E-04	2,52E-04
406	7,10E-05	8,77E-05	4,07E-05	6,80E-04	2,47E-04
407	6,94E-05	7,98E-05	4,06E-05	5,85E-04	2,45E-04
408	6,84E-05	8,96E-05	3,52E-05	6,33E-04	2,65E-04
409	6,81E-05	6,67E-05	3,03E-05	6,31E-04	2,50E-04
410	6,99E-05	1,02E-04	4,03E-05	5,91E-04	2,54E-04
411	7,15E-05	8,46E-05	4,69E-05	6,36E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	2,17E-05	1,95E-05	1,80E-05	4,01E-05	2,05E-05
367	1,66E-05	1,77E-05	1,54E-05	6,73E-05	1,72E-05
368	2,08E-05	1,56E-05	1,59E-05	8,66E-05	1,85E-05
369	1,85E-05	1,39E-05	1,87E-05	9,67E-05	1,69E-05
370	1,80E-05	1,68E-05	1,71E-05	5,13E-05	1,76E-05
371	1,98E-05	2,42E-05	1,70E-05	8,52E-05	2,18E-05
372	1,75E-05	2,14E-05	1,73E-05	7,19E-05	1,95E-05
373	1,79E-05	2,02E-05	1,91E-05	5,76E-05	1,92E-05
374	1,95E-05	1,57E-05	1,93E-05	1,21E-04	1,83E-05
375	2,01E-05	1,89E-05	1,84E-05	3,48E-05	1,95E-05
376	1,82E-05	1,91E-05	2,02E-05	1,13E-04	1,92E-05
377	1,88E-05	2,09E-05	1,61E-05	1,40E-04	2,01E-05
378	1,77E-05	2,02E-05	1,86E-05	4,33E-05	1,90E-05
379	1,88E-05	2,07E-05	1,64E-05	1,04E-04	1,98E-05
380	2,01E-05	1,26E-05	1,57E-05	8,83E-05	1,68E-05
381	1,84E-05	2,19E-05	2,05E-05	7,63E-05	2,04E-05
382	1,71E-05	1,78E-05	1,79E-05	4,39E-05	1,76E-05
383	1,85E-05	2,11E-05	1,93E-05	4,98E-05	1,99E-05
384	1,67E-05	1,27E-05	1,72E-05	5,08E-05	1,51E-05
385	1,70E-05	1,85E-05	1,65E-05	6,23E-05	1,79E-05
386	1,76E-05	2,88E-05	1,72E-05	6,16E-05	2,27E-05
387	1,95E-05	1,92E-05	1,78E-05	3,07E-05	1,93E-05
388	2,17E-05	2,01E-05	1,66E-05	3,37E-05	2,06E-05
389	2,06E-05	2,05E-05	1,76E-05	1,61E-04	2,10E-05
390	1,85E-05	1,74E-05	1,69E-05	8,08E-05	1,82E-05
391	1,85E-05	1,48E-05	1,57E-05	5,91E-05	1,69E-05
392	1,87E-05	1,85E-05	1,63E-05	9,05E-05	1,88E-05
393	1,87E-05	1,95E-05	1,83E-05	3,57E-05	1,91E-05
394	1,66E-05	1,82E-05	1,56E-05	6,72E-05	1,75E-05
395	1,82E-05	2,52E-05	1,68E-05	1,25E-04	2,17E-05
396	1,91E-05	2,21E-05	2,08E-05	9,07E-05	2,09E-05
397	1,80E-05	1,40E-05	1,79E-05	3,51E-05	1,63E-05
398	1,93E-05	2,23E-05	1,55E-05	2,19E-04	2,13E-05
399	1,90E-05	1,49E-05	1,65E-05	3,63E-05	1,71E-05
400	1,99E-05	1,52E-05	1,73E-05	8,66E-05	1,80E-05
401	1,99E-05	2,10E-05	1,76E-05	3,01E-05	2,03E-05
402	2,00E-05	1,94E-05	1,60E-05	3,32E-05	1,95E-05
403	1,87E-05	1,72E-05	1,62E-05	1,58E-05	1,78E-05
404	2,09E-05	2,11E-05	1,61E-05	4,45E-05	2,08E-05
405	1,73E-05	1,71E-05	1,65E-05	2,42E-05	1,72E-05
406	1,68E-05	1,74E-05	1,61E-05	6,24E-05	1,72E-05
407	1,66E-05	1,88E-05	2,13E-05	1,18E-04	1,84E-05
408	2,22E-05	1,74E-05	1,70E-05	4,06E-05	1,98E-05
409	1,95E-05	2,04E-05	1,81E-05	7,46E-05	2,01E-05
410	1,98E-05	1,85E-05	1,68E-05	3,33E-05	1,91E-05
411	2,00E-05	1,31E-05	1,95E-05	1,22E-04	1,74E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
366	2,82E-04	4,10E-04	1,09E-04	2,20E-03	8,49E-04
367	2,83E-04	4,43E-04	1,45E-04	2,27E-03	8,81E-04
368	2,89E-04	4,33E-04	1,40E-04	2,24E-03	8,73E-04
369	3,07E-04	3,92E-04	1,37E-04	2,28E-03	8,77E-04
370	2,81E-04	4,12E-04	1,28E-04	2,29E-03	8,76E-04
371	2,96E-04	3,73E-04	1,03E-04	2,26E-03	8,57E-04
372	2,91E-04	4,56E-04	1,93E-04	2,32E-03	9,04E-04
373	2,81E-04	4,57E-04	1,41E-04	2,27E-03	8,86E-04
374	2,76E-04	3,95E-04	1,17E-04	2,23E-03	8,51E-04
375	2,85E-04	4,79E-04	1,34E-04	2,24E-03	8,86E-04
376	2,89E-04	3,97E-04	1,16E-04	2,28E-03	8,71E-04
377	2,53E-04	3,75E-04	1,98E-04	2,16E-03	8,22E-04
378	2,66E-04	3,77E-04	1,02E-04	2,27E-03	8,51E-04
379	2,87E-04	4,30E-04	1,46E-04	2,27E-03	8,78E-04
380	2,75E-04	4,32E-04	1,59E-04	2,29E-03	8,80E-04
381	2,87E-04	4,37E-04	9,79E-05	2,22E-03	8,65E-04
382	2,92E-04	4,16E-04	1,48E-04	2,20E-03	8,58E-04
383	2,56E-04	4,26E-04	1,43E-04	2,26E-03	8,64E-04
384	3,03E-04	4,34E-04	1,22E-04	2,28E-03	8,87E-04
385	2,96E-04	3,88E-04	8,17E-05	2,17E-03	8,38E-04
386	2,79E-04	4,80E-04	1,25E-04	2,25E-03	8,86E-04
387	2,80E-04	3,72E-04	1,66E-04	2,25E-03	8,53E-04
388	2,74E-04	4,22E-04	1,29E-04	2,25E-03	8,66E-04
389	2,51E-04	3,95E-04	1,50E-04	2,37E-03	8,82E-04
390	2,79E-04	3,72E-04	1,39E-04	2,24E-03	8,48E-04
391	2,82E-04	3,88E-04	1,49E-04	2,23E-03	8,54E-04
392	3,08E-04	4,49E-04	1,42E-04	2,30E-03	8,99E-04
393	2,65E-04	3,75E-04	1,61E-04	2,27E-03	8,54E-04
394	2,84E-04	4,56E-04	1,40E-04	2,29E-03	8,90E-04
395	2,76E-04	4,19E-04	1,30E-04	2,26E-03	8,68E-04
396	2,76E-04	4,66E-04	1,30E-04	2,29E-03	8,91E-04
397	2,71E-04	3,82E-04	1,44E-04	2,31E-03	8,69E-04
398	2,76E-04	4,28E-04	1,07E-04	2,27E-03	8,72E-04
399	2,84E-04	3,65E-04	1,73E-04	2,36E-03	8,84E-04
400	2,61E-04	4,29E-04	1,58E-04	2,25E-03	8,65E-04
401	2,86E-04	4,33E-04	1,07E-04	2,30E-03	8,87E-04
402	2,76E-04	4,11E-04	9,48E-05	2,30E-03	8,75E-04
403	2,96E-04	4,49E-04	1,59E-04	2,17E-03	8,61E-04
404	2,94E-04	4,28E-04	1,16E-04	2,29E-03	8,84E-04
405	2,92E-04	4,30E-04	1,01E-04	2,23E-03	8,66E-04
406	2,90E-04	3,91E-04	1,12E-04	2,21E-03	8,48E-04
407	2,89E-04	3,88E-04	1,97E-04	2,16E-03	8,38E-04
408	2,80E-04	4,69E-04	1,31E-04	2,33E-03	9,05E-04
409	2,78E-04	3,89E-04	1,07E-04	2,23E-03	8,49E-04
410	2,81E-04	4,59E-04	1,41E-04	2,20E-03	8,67E-04
411	2,73E-04	4,43E-04	1,38E-04	2,30E-03	8,87E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	7,11E-05	8,59E-05	2,86E-05	7,02E-04	2,48E-04
413	7,31E-05	9,29E-05	3,98E-05	6,42E-04	2,55E-04
414	6,86E-05	8,29E-05	3,82E-05	6,78E-04	2,62E-04
415	6,46E-05	8,24E-05	2,48E-05	6,45E-04	2,52E-04
416	7,05E-05	1,04E-04	2,67E-05	6,34E-04	2,54E-04
417	7,52E-05	9,87E-05	3,82E-05	5,97E-04	2,57E-04
418	6,34E-05	7,92E-05	3,38E-05	6,78E-04	2,59E-04
419	7,52E-05	8,46E-05	3,73E-05	6,21E-04	2,52E-04
420	6,86E-05	8,53E-05	3,70E-05	6,45E-04	2,64E-04
421	8,51E-05	8,85E-05	2,51E-05	7,09E-04	2,53E-04
422	7,34E-05	8,95E-05	3,16E-05	6,11E-04	2,57E-04
423	6,91E-05	1,06E-04	4,43E-05	6,61E-04	2,54E-04
424	5,99E-05	9,16E-05	3,49E-05	6,71E-04	2,56E-04
425	7,25E-05	9,12E-05	4,26E-05	6,13E-04	2,56E-04
426	6,39E-05	8,96E-05	3,64E-05	6,81E-04	2,52E-04
427	6,99E-05	7,42E-05	4,02E-05	6,32E-04	2,60E-04
428	6,36E-05	8,97E-05	2,65E-05	6,04E-04	2,63E-04
429	5,35E-05	9,78E-05	3,87E-05	6,56E-04	2,49E-04
430	7,51E-05	9,79E-05	4,34E-05	6,96E-04	2,59E-04
431	8,09E-05	1,10E-04	3,72E-05	6,15E-04	2,53E-04
432	6,29E-05	8,90E-05	3,63E-05	6,94E-04	2,67E-04
433	6,00E-05	9,67E-05	4,12E-05	7,13E-04	2,55E-04
434	7,60E-05	8,77E-05	4,19E-05	6,89E-04	2,56E-04
435	7,02E-05	8,64E-05	3,46E-05	6,40E-04	2,64E-04
436	7,65E-05	1,14E-04	3,24E-05	6,14E-04	2,52E-04
437	6,97E-05	8,37E-05	5,18E-05	6,21E-04	2,54E-04
438	6,77E-05	8,74E-05	3,88E-05	6,88E-04	2,57E-04
439	6,80E-05	9,69E-05	4,24E-05	5,52E-04	2,51E-04
440	6,66E-05	7,35E-05	4,15E-05	6,75E-04	2,55E-04
441	7,36E-05	7,25E-05	3,82E-05	6,13E-04	2,53E-04
442	6,33E-05	8,81E-05	4,01E-05	7,13E-04	2,57E-04
443	6,32E-05	7,60E-05	4,45E-05	6,36E-04	2,54E-04
444	7,16E-05	8,37E-05	4,11E-05	5,88E-04	2,54E-04
445	6,82E-05	7,67E-05	4,30E-05	6,39E-04	2,64E-04
446	7,23E-05	8,78E-05	3,65E-05	6,10E-04	2,61E-04
447	7,47E-05	1,02E-04	3,43E-05	6,94E-04	2,63E-04
448	6,93E-05	9,39E-05	3,13E-05	6,18E-04	2,51E-04
449	6,74E-05	8,24E-05	3,76E-05	6,84E-04	2,52E-04
450	7,36E-05	9,66E-05	4,07E-05	5,92E-04	2,60E-04
451	7,15E-05	1,01E-04	5,27E-05	6,20E-04	2,55E-04
452	7,18E-05	1,15E-04	5,19E-05	6,82E-04	2,58E-04
453	7,18E-05	8,84E-05	3,50E-05	6,18E-04	2,63E-04
454	7,28E-05	1,08E-04	4,85E-05	6,43E-04	2,68E-04
455	6,85E-05	1,00E-04	4,45E-05	6,02E-04	2,56E-04
456	8,76E-05	9,44E-05	3,42E-05	6,92E-04	2,50E-04
457	6,54E-05	1,02E-04	3,53E-05	6,90E-04	2,52E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	1,71E-05	1,67E-05	1,63E-05	2,12E-05	1,69E-05
413	2,20E-05	1,70E-05	1,62E-05	2,72E-04	2,06E-05
414	1,84E-05	2,99E-05	1,63E-05	1,07E-04	2,37E-05
415	2,17E-05	2,04E-05	1,90E-05	2,59E-04	2,21E-05
416	1,78E-05	1,58E-05	1,53E-05	2,18E-05	1,67E-05
417	1,68E-05	2,13E-05	1,79E-05	1,03E-04	1,93E-05
418	2,15E-05	2,17E-05	1,53E-05	3,27E-05	2,12E-05
419	2,15E-05	1,54E-05	1,90E-05	1,09E-04	1,90E-05
420	1,94E-05	1,29E-05	1,66E-05	6,05E-05	1,65E-05
421	1,71E-05	1,37E-05	1,67E-05	1,67E-04	1,63E-05
422	1,92E-05	2,72E-05	1,62E-05	1,81E-05	2,25E-05
423	1,89E-05	2,12E-05	1,74E-05	4,59E-05	1,99E-05
424	1,91E-05	1,68E-05	1,99E-05	1,27E-04	1,87E-05
425	2,02E-05	1,90E-05	2,44E-05	3,46E-05	2,01E-05
426	1,82E-05	1,58E-05	1,68E-05	3,90E-05	1,71E-05
427	1,70E-05	1,83E-05	1,78E-05	4,16E-05	1,78E-05
428	2,17E-05	2,05E-05	1,78E-05	8,47E-05	2,12E-05
429	1,65E-05	1,44E-05	1,73E-05	1,11E-04	1,61E-05
430	1,83E-05	1,93E-05	1,70E-05	4,54E-05	1,88E-05
431	1,93E-05	2,04E-05	1,60E-05	1,18E-04	2,00E-05
432	2,12E-05	1,30E-05	1,84E-05	6,13E-05	1,76E-05
433	2,20E-05	1,67E-05	1,76E-05	8,82E-05	1,96E-05
434	2,04E-05	1,79E-05	1,61E-05	7,71E-05	1,93E-05
435	2,12E-05	3,40E-05	1,58E-05	7,77E-05	2,68E-05
436	1,96E-05	1,94E-05	2,05E-05	2,50E-05	1,96E-05
437	1,93E-05	2,13E-05	1,66E-05	1,38E-04	2,06E-05
438	1,92E-05	1,70E-05	1,69E-05	5,42E-05	1,82E-05
439	1,98E-05	2,16E-05	1,83E-05	2,84E-04	2,17E-05
440	1,77E-05	1,64E-05	1,53E-05	1,95E-05	1,70E-05
441	2,20E-05	2,48E-05	1,68E-05	7,06E-05	2,31E-05
442	2,01E-05	1,77E-05	1,68E-05	6,11E-05	1,90E-05
443	1,88E-05	1,86E-05	1,66E-05	1,33E-04	1,91E-05
444	2,16E-05	1,23E-05	1,60E-05	1,79E-04	1,79E-05
445	2,22E-05	2,22E-05	1,80E-05	2,44E-05	2,19E-05
446	2,08E-05	1,72E-05	1,80E-05	1,51E-04	1,96E-05
447	1,78E-05	1,75E-05	1,60E-05	8,81E-05	1,79E-05
448	2,04E-05	1,71E-05	2,03E-05	2,01E-05	1,89E-05
449	1,79E-05	1,71E-05	1,55E-05	7,66E-05	1,76E-05
450	1,99E-05	2,01E-05	1,69E-05	1,21E-04	2,03E-05
451	2,03E-05	1,24E-05	2,01E-05	2,28E-05	1,68E-05
452	1,77E-05	1,55E-05	1,66E-05	8,29E-05	1,70E-05
453	2,13E-05	2,21E-05	1,68E-05	6,32E-05	2,15E-05
454	1,84E-05	2,18E-05	2,09E-05	9,69E-05	2,05E-05
455	2,80E-05	1,94E-05	1,77E-05	4,28E-05	2,35E-05
456	1,77E-05	2,16E-05	2,11E-05	8,17E-05	2,00E-05
457	1,94E-05	1,41E-05	1,68E-05	5,57E-05	1,70E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
412	2,71E-04	4,51E-04	1,28E-04	2,18E-03	8,53E-04
413	2,98E-04	4,11E-04	1,63E-04	2,24E-03	8,69E-04
414	2,82E-04	4,44E-04	2,18E-04	2,26E-03	8,83E-04
415	2,75E-04	4,24E-04	1,24E-04	2,20E-03	8,52E-04
416	2,70E-04	4,17E-04	1,82E-04	2,28E-03	8,75E-04
417	3,26E-04	4,34E-04	1,11E-04	2,22E-03	8,79E-04
418	2,68E-04	4,47E-04	1,17E-04	2,29E-03	8,82E-04
419	2,84E-04	3,80E-04	8,92E-05	2,28E-03	8,61E-04
420	3,01E-04	5,00E-04	1,44E-04	2,28E-03	9,09E-04
421	2,83E-04	4,30E-04	1,36E-04	2,26E-03	8,73E-04
422	2,98E-04	4,23E-04	1,27E-04	2,23E-03	8,69E-04
423	2,95E-04	4,26E-04	1,44E-04	2,22E-03	8,66E-04
424	2,74E-04	4,57E-04	1,50E-04	2,25E-03	8,77E-04
425	2,91E-04	4,23E-04	1,50E-04	2,25E-03	8,74E-04
426	3,01E-04	3,96E-04	1,10E-04	2,25E-03	8,66E-04
427	2,69E-04	4,71E-04	1,08E-04	2,31E-03	8,93E-04
428	2,90E-04	4,58E-04	1,63E-04	2,29E-03	8,96E-04
429	2,83E-04	3,88E-04	1,48E-04	2,24E-03	8,57E-04
430	2,84E-04	4,64E-04	1,27E-04	2,27E-03	8,88E-04
431	2,82E-04	3,98E-04	9,60E-05	2,26E-03	8,60E-04
432	2,97E-04	4,86E-04	1,17E-04	2,35E-03	9,19E-04
433	2,88E-04	3,85E-04	1,36E-04	2,29E-03	8,69E-04
434	2,72E-04	3,96E-04	8,88E-05	2,32E-03	8,73E-04
435	3,01E-04	4,61E-04	1,28E-04	2,24E-03	8,85E-04
436	2,80E-04	4,00E-04	1,16E-04	2,25E-03	8,59E-04
437	2,68E-04	3,93E-04	1,40E-04	2,29E-03	8,66E-04
438	2,79E-04	4,06E-04	1,40E-04	2,31E-03	8,80E-04
439	2,71E-04	4,02E-04	1,36E-04	2,22E-03	8,49E-04
440	3,11E-04	3,98E-04	1,02E-04	2,28E-03	8,77E-04
441	2,76E-04	4,09E-04	1,11E-04	2,23E-03	8,55E-04
442	2,88E-04	3,97E-04	1,37E-04	2,31E-03	8,79E-04
443	2,85E-04	4,24E-04	8,09E-05	2,26E-03	8,70E-04
444	2,93E-04	4,16E-04	1,63E-04	2,24E-03	8,70E-04
445	2,74E-04	4,46E-04	1,17E-04	2,34E-03	8,96E-04
446	2,88E-04	4,29E-04	1,43E-04	2,32E-03	8,93E-04
447	2,59E-04	4,60E-04	1,62E-04	2,36E-03	9,05E-04
448	2,48E-04	4,10E-04	1,27E-04	2,27E-03	8,57E-04
449	2,59E-04	4,18E-04	1,75E-04	2,25E-03	8,63E-04
450	2,66E-04	3,97E-04	1,94E-04	2,35E-03	8,85E-04
451	2,85E-04	4,28E-04	1,26E-04	2,28E-03	8,78E-04
452	2,93E-04	4,50E-04	1,42E-04	2,27E-03	8,87E-04
453	2,54E-04	4,52E-04	1,76E-04	2,34E-03	8,96E-04
454	2,93E-04	4,83E-04	1,02E-04	2,35E-03	9,16E-04
455	2,91E-04	3,87E-04	1,59E-04	2,26E-03	8,65E-04
456	2,63E-04	4,20E-04	1,23E-04	2,22E-03	8,52E-04
457	2,83E-04	4,39E-04	1,46E-04	2,22E-03	8,66E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	7,01E-05	1,12E-04	3,22E-05	6,84E-04	2,61E-04
459	7,01E-05	7,88E-05	2,82E-05	5,78E-04	2,53E-04
460	7,74E-05	8,67E-05	5,11E-05	6,61E-04	2,49E-04
461	7,40E-05	7,58E-05	3,55E-05	5,90E-04	2,55E-04
462	7,47E-05	9,49E-05	5,09E-05	5,90E-04	2,55E-04
463	6,92E-05	1,10E-04	4,52E-05	7,37E-04	2,59E-04
464	6,72E-05	9,02E-05	3,39E-05	6,91E-04	2,59E-04
465	6,86E-05	1,12E-04	3,48E-05	6,54E-04	2,52E-04
466	7,25E-05	9,20E-05	3,07E-05	6,69E-04	2,50E-04
467	8,73E-05	7,99E-05	2,95E-05	6,30E-04	2,53E-04
468	7,83E-05	8,64E-05	3,43E-05	6,70E-04	2,54E-04
469	8,52E-05	7,97E-05	3,31E-05	6,53E-04	2,63E-04
470	6,66E-05	9,62E-05	4,13E-05	7,06E-04	2,49E-04
471	6,71E-05	9,46E-05	4,72E-05	6,98E-04	2,50E-04
472	6,42E-05	9,61E-05	3,42E-05	5,92E-04	2,55E-04
473	7,06E-05	8,73E-05	3,53E-05	6,32E-04	2,48E-04
474	7,30E-05	8,18E-05	2,41E-05	6,23E-04	2,50E-04
475	7,00E-05	1,02E-04	4,21E-05	6,49E-04	2,61E-04
476	5,73E-05	1,01E-04	2,61E-05	5,91E-04	2,57E-04
477	7,27E-05	9,18E-05	3,67E-05	6,61E-04	2,58E-04
478	6,51E-05	6,61E-05	3,34E-05	6,28E-04	2,57E-04
479	7,01E-05	8,82E-05	3,47E-05	6,52E-04	2,56E-04
480	6,95E-05	9,86E-05	3,25E-05	5,88E-04	2,60E-04
481	6,90E-05	8,98E-05	3,53E-05	6,87E-04	2,55E-04
482	7,22E-05	9,29E-05	3,07E-05	6,81E-04	2,54E-04
483	6,76E-05	9,04E-05	3,71E-05	6,22E-04	2,60E-04
484	7,53E-05	9,99E-05	3,19E-05	6,13E-04	2,61E-04
485	6,96E-05	1,04E-04	4,13E-05	6,55E-04	2,53E-04
486	7,75E-05	7,60E-05	2,53E-05	6,46E-04	2,55E-04
487	6,69E-05	1,19E-04	3,61E-05	6,30E-04	2,58E-04
488	7,62E-05	7,79E-05	2,74E-05	6,39E-04	2,48E-04
489	6,36E-05	1,08E-04	2,99E-05	6,87E-04	2,56E-04
490	7,03E-05	8,15E-05	2,90E-05	6,99E-04	2,68E-04
491	7,62E-05	8,55E-05	3,73E-05	5,68E-04	2,51E-04
492	7,03E-05	8,72E-05	3,68E-05	6,32E-04	2,57E-04
493	8,48E-05	6,91E-05	3,63E-05	6,61E-04	2,49E-04
494	6,79E-05	9,46E-05	3,49E-05	6,36E-04	2,55E-04
495	6,83E-05	8,59E-05	4,93E-05	6,78E-04	2,68E-04
496	7,01E-05	9,18E-05	3,41E-05	6,40E-04	2,54E-04
497	7,09E-05	7,00E-05	3,91E-05	6,50E-04	2,60E-04
498	8,00E-05	1,17E-04	3,26E-05	6,48E-04	2,54E-04
499	7,05E-05	9,25E-05	3,69E-05	6,13E-04	2,57E-04
500	7,46E-05	8,37E-05	3,55E-05	6,52E-04	2,65E-04
501	8,16E-05	8,29E-05	3,32E-05	6,65E-04	2,58E-04
502	7,70E-05	9,61E-05	4,09E-05	6,40E-04	2,44E-04
503	7,33E-05	1,00E-04	3,10E-05	6,21E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	1,75E-05	1,53E-05	1,65E-05	1,21E-04	1,70E-05
459	1,83E-05	1,55E-05	1,59E-05	4,49E-05	1,70E-05
460	1,68E-05	1,36E-05	1,71E-05	9,07E-05	1,58E-05
461	1,71E-05	2,10E-05	1,61E-05	1,28E-04	1,93E-05
462	1,70E-05	2,04E-05	1,65E-05	9,95E-05	1,89E-05
463	2,24E-05	2,84E-05	1,51E-05	1,84E-04	2,53E-05
464	2,25E-05	2,46E-05	1,92E-05	5,05E-05	2,33E-05
465	1,83E-05	1,29E-05	1,62E-05	2,53E-05	1,58E-05
466	1,82E-05	2,31E-05	1,75E-05	1,96E-05	2,03E-05
467	2,06E-05	1,63E-05	1,77E-05	1,93E-05	1,85E-05
468	1,91E-05	1,49E-05	1,75E-05	1,78E-04	1,79E-05
469	1,82E-05	1,31E-05	1,97E-05	6,11E-05	1,63E-05
470	1,85E-05	1,44E-05	1,69E-05	1,64E-04	1,73E-05
471	1,69E-05	2,46E-05	2,14E-05	1,56E-04	2,13E-05
472	2,44E-05	1,76E-05	1,64E-05	2,08E-04	2,17E-05
473	1,79E-05	1,82E-05	1,65E-05	7,40E-05	1,82E-05
474	1,71E-05	1,91E-05	1,59E-05	6,33E-05	1,81E-05
475	2,07E-05	1,39E-05	1,64E-05	1,90E-04	1,82E-05
476	1,97E-05	1,51E-05	1,76E-05	4,97E-05	1,77E-05
477	2,15E-05	2,15E-05	1,87E-05	2,71E-05	2,13E-05
478	1,84E-05	1,36E-05	1,73E-05	4,44E-04	1,82E-05
479	1,74E-05	3,18E-05	2,12E-05	8,54E-05	2,44E-05
480	1,83E-05	1,77E-05	1,68E-05	5,44E-05	1,81E-05
481	1,75E-05	1,61E-05	2,01E-05	5,83E-05	1,72E-05
482	1,84E-05	1,44E-05	1,72E-05	1,23E-05	1,65E-05
483	1,82E-05	1,65E-05	1,73E-05	7,52E-05	1,77E-05
484	2,02E-05	2,03E-05	1,77E-05	4,95E-05	2,02E-05
485	1,94E-05	1,66E-05	1,71E-05	1,10E-04	1,84E-05
486	1,79E-05	2,21E-05	1,67E-05	4,43E-05	1,98E-05
487	1,65E-05	1,72E-05	1,67E-05	4,48E-05	1,70E-05
488	1,84E-05	1,55E-05	2,68E-05	8,54E-05	1,81E-05
489	1,93E-05	1,93E-05	1,80E-05	1,09E-04	1,96E-05
490	2,32E-05	2,22E-05	1,59E-05	7,75E-05	2,25E-05
491	2,31E-05	1,82E-05	1,73E-05	1,96E-05	2,05E-05
492	2,02E-05	2,20E-05	1,96E-05	1,17E-04	2,14E-05
493	1,97E-05	2,56E-05	1,58E-05	4,15E-05	2,21E-05
494	1,71E-05	2,12E-05	1,60E-05	6,11E-05	1,90E-05
495	1,97E-05	2,33E-05	1,68E-05	9,95E-05	2,15E-05
496	1,68E-05	1,71E-05	1,73E-05	1,34E-04	1,75E-05
497	1,86E-05	1,75E-05	1,74E-05	2,94E-05	1,81E-05
498	1,91E-05	2,30E-05	1,73E-05	4,94E-05	2,08E-05
499	2,27E-05	2,76E-05	1,65E-05	4,01E-05	2,45E-05
500	1,90E-05	1,91E-05	1,65E-05	5,47E-05	1,90E-05
501	1,79E-05	2,15E-05	2,34E-05	7,87E-05	2,02E-05
502	1,75E-05	2,14E-05	1,77E-05	3,52E-05	1,93E-05
503	1,72E-05	2,51E-05	1,91E-05	3,77E-05	2,09E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
458	3,14E-04	4,53E-04	1,42E-04	2,28E-03	8,97E-04
459	2,67E-04	3,93E-04	1,67E-04	2,30E-03	8,71E-04
460	2,90E-04	3,83E-04	1,41E-04	2,25E-03	8,60E-04
461	2,76E-04	4,05E-04	9,19E-05	2,30E-03	8,71E-04
462	2,65E-04	4,04E-04	1,11E-04	2,31E-03	8,71E-04
463	2,86E-04	4,29E-04	8,44E-05	2,25E-03	8,68E-04
464	2,84E-04	4,53E-04	1,07E-04	2,24E-03	8,75E-04
465	3,08E-04	4,35E-04	1,60E-04	2,20E-03	8,70E-04
466	2,92E-04	3,91E-04	1,62E-04	2,20E-03	8,50E-04
467	2,91E-04	3,55E-04	1,53E-04	2,31E-03	8,67E-04
468	2,89E-04	3,95E-04	1,04E-04	2,29E-03	8,70E-04
469	3,13E-04	4,66E-04	1,66E-04	2,29E-03	9,07E-04
470	2,70E-04	4,28E-04	1,52E-04	2,21E-03	8,56E-04
471	2,72E-04	4,37E-04	1,31E-04	2,17E-03	8,48E-04
472	2,97E-04	3,70E-04	1,58E-04	2,27E-03	8,64E-04
473	2,85E-04	3,91E-04	1,38E-04	2,21E-03	8,49E-04
474	2,66E-04	4,41E-04	1,19E-04	2,20E-03	8,55E-04
475	2,76E-04	4,56E-04	1,26E-04	2,32E-03	8,95E-04
476	2,60E-04	4,37E-04	9,55E-05	2,32E-03	8,83E-04
477	2,86E-04	3,83E-04	9,90E-05	2,32E-03	8,76E-04
478	2,83E-04	4,49E-04	1,30E-04	2,26E-03	8,80E-04
479	2,81E-04	4,02E-04	1,67E-04	2,25E-03	8,63E-04
480	2,76E-04	4,48E-04	1,35E-04	2,32E-03	8,94E-04
481	2,87E-04	4,51E-04	1,75E-04	2,23E-03	8,76E-04
482	2,80E-04	4,12E-04	1,30E-04	2,29E-03	8,75E-04
483	2,84E-04	4,59E-04	1,41E-04	2,30E-03	8,95E-04
484	2,89E-04	4,68E-04	1,23E-04	2,28E-03	8,92E-04
485	2,54E-04	4,01E-04	1,26E-04	2,31E-03	8,67E-04
486	2,69E-04	3,91E-04	2,03E-04	2,29E-03	8,71E-04
487	2,79E-04	4,33E-04	1,32E-04	2,31E-03	8,87E-04
488	2,66E-04	4,21E-04	1,24E-04	2,21E-03	8,50E-04
489	2,84E-04	4,11E-04	1,29E-04	2,28E-03	8,75E-04
490	3,00E-04	4,35E-04	1,25E-04	2,36E-03	9,09E-04
491	2,77E-04	4,14E-04	1,14E-04	2,22E-03	8,55E-04
492	2,79E-04	4,22E-04	1,17E-04	2,27E-03	8,73E-04
493	2,90E-04	3,84E-04	8,76E-05	2,20E-03	8,43E-04
494	2,79E-04	4,16E-04	2,02E-04	2,26E-03	8,73E-04
495	3,10E-04	4,81E-04	1,70E-04	2,30E-03	9,12E-04
496	2,68E-04	4,72E-04	1,06E-04	2,23E-03	8,72E-04
497	2,75E-04	4,27E-04	1,38E-04	2,34E-03	8,93E-04
498	2,82E-04	4,19E-04	1,44E-04	2,23E-03	8,64E-04
499	2,79E-04	4,11E-04	1,33E-04	2,25E-03	8,65E-04
500	3,10E-04	4,27E-04	1,20E-04	2,36E-03	9,08E-04
501	3,02E-04	4,20E-04	1,37E-04	2,27E-03	8,80E-04
502	2,68E-04	3,75E-04	1,65E-04	2,18E-03	8,31E-04
503	2,84E-04	4,30E-04	1,67E-04	2,25E-03	8,75E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	6,85E-05	7,26E-05	3,49E-05	6,31E-04	2,59E-04
505	7,02E-05	7,71E-05	4,46E-05	6,95E-04	2,64E-04
506	7,73E-05	1,17E-04	2,58E-05	6,32E-04	2,50E-04
507	7,01E-05	9,07E-05	2,69E-05	6,95E-04	2,61E-04
508	7,07E-05	1,03E-04	2,97E-05	6,86E-04	2,54E-04
509	6,55E-05	8,50E-05	4,46E-05	7,64E-04	2,49E-04
510	7,26E-05	8,57E-05	4,39E-05	6,15E-04	2,58E-04
511	7,58E-05	7,59E-05	4,50E-05	5,92E-04	2,57E-04
512	6,50E-05	6,11E-05	2,87E-05	5,88E-04	2,51E-04
513	7,75E-05	1,07E-04	2,67E-05	6,93E-04	2,56E-04
514	7,86E-05	9,70E-05	3,41E-05	6,47E-04	2,52E-04
515	6,85E-05	7,90E-05	3,73E-05	6,72E-04	2,55E-04
516	8,43E-05	8,43E-05	3,55E-05	6,09E-04	2,56E-04
517	5,75E-05	6,63E-05	4,60E-05	6,38E-04	2,54E-04
518	7,44E-05	9,24E-05	3,10E-05	7,03E-04	2,49E-04
519	6,38E-05	7,56E-05	3,32E-05	6,34E-04	2,60E-04
520	6,82E-05	9,32E-05	2,61E-05	6,86E-04	2,53E-04
521	6,87E-05	1,01E-04	2,65E-05	6,41E-04	2,51E-04
522	7,24E-05	1,02E-04	2,97E-05	6,58E-04	2,54E-04
523	7,37E-05	8,00E-05	3,50E-05	6,24E-04	2,56E-04
524	7,35E-05	8,90E-05	2,82E-05	6,47E-04	2,60E-04
525	7,70E-05	7,57E-05	3,75E-05	6,86E-04	2,57E-04
526	6,36E-05	8,35E-05	3,14E-05	6,42E-04	2,55E-04
527	6,01E-05	8,43E-05	3,73E-05	6,32E-04	2,59E-04
528	6,76E-05	1,08E-04	2,49E-05	5,81E-04	2,58E-04
529	6,48E-05	9,31E-05	5,04E-05	5,94E-04	2,62E-04
530	7,12E-05	9,78E-05	3,87E-05	6,86E-04	2,58E-04
531	6,87E-05	9,91E-05	4,04E-05	6,85E-04	2,51E-04
532	7,35E-05	9,77E-05	4,13E-05	6,19E-04	2,54E-04
533	7,28E-05	9,41E-05	3,63E-05	6,29E-04	2,60E-04
534	7,24E-05	1,18E-04	3,80E-05	6,22E-04	2,62E-04
535	7,89E-05	1,19E-04	3,10E-05	6,53E-04	2,49E-04
536	6,12E-05	1,11E-04	3,87E-05	6,87E-04	2,65E-04
537	6,92E-05	1,16E-04	2,99E-05	6,67E-04	2,59E-04
538	6,40E-05	9,74E-05	3,79E-05	6,09E-04	2,57E-04
539	7,63E-05	8,99E-05	3,07E-05	6,99E-04	2,56E-04
540	7,21E-05	9,52E-05	4,36E-05	6,13E-04	2,60E-04
541	7,55E-05	1,25E-04	3,63E-05	6,80E-04	2,61E-04
542	7,01E-05	6,82E-05	2,57E-05	7,00E-04	2,53E-04
543	7,65E-05	1,16E-04	4,46E-05	6,74E-04	2,54E-04
544	6,67E-05	1,10E-04	4,28E-05	6,49E-04	2,62E-04
545	6,85E-05	1,01E-04	3,54E-05	6,64E-04	2,48E-04
546	7,12E-05	9,96E-05	5,46E-05	6,51E-04	2,61E-04
547	6,58E-05	9,51E-05	3,00E-05	6,23E-04	2,66E-04
548	6,31E-05	9,97E-05	2,52E-05	5,92E-04	2,59E-04
549	8,06E-05	7,98E-05	3,88E-05	6,61E-04	2,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	1,81E-05	1,95E-05	1,89E-05	5,76E-05	1,90E-05
505	1,98E-05	2,36E-05	1,96E-05	1,62E-04	2,22E-05
506	1,87E-05	2,10E-05	1,65E-05	7,78E-05	1,98E-05
507	1,71E-05	1,98E-05	1,66E-05	1,55E-04	1,89E-05
508	2,20E-05	1,32E-05	1,66E-05	1,15E-04	1,82E-05
509	1,94E-05	1,55E-05	1,60E-05	8,97E-05	1,77E-05
510	1,96E-05	1,51E-05	1,87E-05	6,08E-05	1,78E-05
511	1,63E-05	2,34E-05	1,66E-05	1,31E-04	2,00E-05
512	2,09E-05	2,20E-05	2,05E-05	3,92E-05	2,14E-05
513	2,13E-05	2,26E-05	1,83E-05	2,22E-04	2,26E-05
514	1,82E-05	1,84E-05	1,69E-05	3,58E-05	1,83E-05
515	1,80E-05	1,46E-05	1,76E-05	4,32E-05	1,66E-05
516	1,86E-05	2,09E-05	2,15E-05	9,16E-05	2,02E-05
517	2,46E-05	1,28E-05	2,22E-05	6,94E-05	1,94E-05
518	2,31E-05	1,40E-05	1,73E-05	8,35E-05	1,90E-05
519	1,85E-05	1,88E-05	1,77E-05	2,68E-05	1,86E-05
520	1,86E-05	2,77E-05	1,86E-05	4,26E-05	2,27E-05
521	1,69E-05	1,73E-05	2,09E-05	5,46E-05	1,76E-05
522	2,06E-05	1,84E-05	1,66E-05	3,68E-05	1,94E-05
523	1,98E-05	1,41E-05	1,70E-05	2,91E-05	1,71E-05
524	1,92E-05	1,85E-05	1,64E-05	8,48E-05	1,90E-05
525	2,08E-05	1,82E-05	1,60E-05	8,06E-05	1,96E-05
526	1,82E-05	2,11E-05	1,64E-05	3,03E-05	1,94E-05
527	1,72E-05	2,53E-05	1,60E-05	7,45E-05	2,10E-05
528	2,46E-05	1,97E-05	1,75E-05	6,15E-05	2,21E-05
529	1,72E-05	1,96E-05	2,87E-05	9,49E-05	1,95E-05
530	1,60E-05	2,24E-05	2,07E-05	5,70E-05	1,94E-05
531	1,73E-05	2,05E-05	1,57E-05	3,81E-05	1,87E-05
532	1,86E-05	1,56E-05	1,80E-05	2,64E-05	1,73E-05
533	1,71E-05	1,37E-05	1,73E-05	7,39E-05	1,59E-05
534	1,79E-05	1,77E-05	1,62E-05	8,29E-05	1,80E-05
535	2,10E-05	2,03E-05	1,59E-05	4,04E-05	2,04E-05
536	1,97E-05	1,82E-05	1,77E-05	4,09E-05	1,90E-05
537	2,05E-05	2,23E-05	1,84E-05	3,38E-04	2,27E-05
538	2,07E-05	1,99E-05	1,61E-05	4,12E-05	2,01E-05
539	1,83E-05	1,69E-05	1,74E-05	7,99E-05	1,79E-05
540	1,74E-05	1,83E-05	1,70E-05	8,17E-05	1,80E-05
541	1,82E-05	1,69E-05	1,96E-05	3,20E-05	1,78E-05
542	1,81E-05	2,08E-05	1,59E-05	2,19E-04	2,01E-05
543	1,89E-05	1,60E-05	1,59E-05	4,45E-05	1,75E-05
544	2,23E-05	1,85E-05	2,01E-05	1,03E-04	2,09E-05
545	1,73E-05	1,98E-05	1,71E-05	2,62E-05	1,84E-05
546	2,06E-05	1,54E-05	1,98E-05	3,00E-05	1,83E-05
547	1,99E-05	1,54E-05	1,61E-05	2,65E-04	1,88E-05
548	1,87E-05	2,38E-05	1,90E-05	1,27E-04	2,15E-05
549	1,78E-05	2,63E-05	1,51E-05	6,49E-05	2,16E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
504	3,05E-04	4,29E-04	1,22E-04	2,29E-03	8,88E-04
505	2,86E-04	4,36E-04	1,36E-04	2,33E-03	8,97E-04
506	2,89E-04	3,90E-04	1,10E-04	2,23E-03	8,53E-04
507	2,82E-04	4,06E-04	1,67E-04	2,35E-03	8,92E-04
508	2,47E-04	4,31E-04	1,76E-04	2,27E-03	8,69E-04
509	2,72E-04	4,42E-04	1,12E-04	2,20E-03	8,55E-04
510	2,78E-04	4,24E-04	1,43E-04	2,31E-03	8,86E-04
511	2,77E-04	4,51E-04	1,23E-04	2,25E-03	8,76E-04
512	2,74E-04	4,19E-04	1,01E-04	2,20E-03	8,49E-04
513	2,73E-04	4,44E-04	1,48E-04	2,22E-03	8,65E-04
514	2,84E-04	4,39E-04	1,41E-04	2,21E-03	8,64E-04
515	2,68E-04	4,25E-04	1,23E-04	2,30E-03	8,78E-04
516	3,01E-04	3,79E-04	1,35E-04	2,29E-03	8,71E-04
517	2,91E-04	3,60E-04	1,53E-04	2,29E-03	8,65E-04
518	2,75E-04	3,72E-04	1,87E-04	2,24E-03	8,50E-04
519	2,67E-04	4,24E-04	1,49E-04	2,34E-03	8,91E-04
520	2,75E-04	4,51E-04	1,34E-04	2,18E-03	8,56E-04
521	2,86E-04	4,22E-04	1,37E-04	2,22E-03	8,61E-04
522	2,93E-04	3,84E-04	1,51E-04	2,27E-03	8,67E-04
523	2,94E-04	4,45E-04	2,06E-04	2,24E-03	8,80E-04
524	2,92E-04	4,27E-04	1,69E-04	2,31E-03	8,91E-04
525	2,73E-04	3,78E-04	1,48E-04	2,35E-03	8,79E-04
526	2,96E-04	4,30E-04	1,50E-04	2,23E-03	8,71E-04
527	2,92E-04	4,39E-04	1,26E-04	2,26E-03	8,80E-04
528	2,71E-04	4,17E-04	1,09E-04	2,30E-03	8,75E-04
529	2,71E-04	4,61E-04	1,68E-04	2,31E-03	8,95E-04
530	2,70E-04	4,63E-04	1,57E-04	2,26E-03	8,81E-04
531	2,76E-04	3,73E-04	1,27E-04	2,28E-03	8,60E-04
532	2,74E-04	4,50E-04	9,57E-05	2,25E-03	8,73E-04
533	2,78E-04	4,78E-04	1,08E-04	2,31E-03	8,99E-04
534	2,87E-04	4,45E-04	1,12E-04	2,34E-03	9,01E-04
535	2,85E-04	4,03E-04	1,10E-04	2,19E-03	8,46E-04
536	2,76E-04	4,55E-04	1,48E-04	2,36E-03	9,09E-04
537	2,74E-04	4,29E-04	1,18E-04	2,29E-03	8,77E-04
538	2,83E-04	4,12E-04	9,68E-05	2,29E-03	8,75E-04
539	2,89E-04	3,96E-04	1,28E-04	2,30E-03	8,77E-04
540	2,93E-04	4,07E-04	1,24E-04	2,34E-03	8,91E-04
541	2,89E-04	4,30E-04	1,35E-04	2,33E-03	8,96E-04
542	2,74E-04	4,08E-04	1,16E-04	2,25E-03	8,60E-04
543	2,82E-04	4,01E-04	9,35E-05	2,30E-03	8,73E-04
544	2,81E-04	4,08E-04	1,28E-04	2,35E-03	8,90E-04
545	2,76E-04	4,03E-04	1,19E-04	2,21E-03	8,47E-04
546	2,92E-04	4,19E-04	1,67E-04	2,32E-03	8,94E-04
547	2,82E-04	4,93E-04	1,40E-04	2,32E-03	9,11E-04
548	3,07E-04	4,33E-04	1,03E-04	2,25E-03	8,79E-04
549	3,03E-04	4,76E-04	1,58E-04	2,23E-03	8,87E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	6,42E-05	9,60E-05	3,48E-05	6,21E-04	2,58E-04
551	7,87E-05	1,09E-04	3,88E-05	6,80E-04	2,51E-04
552	6,76E-05	8,79E-05	2,72E-05	6,81E-04	2,57E-04
553	6,72E-05	1,09E-04	3,08E-05	6,28E-04	2,65E-04
554	6,99E-05	1,19E-04	3,22E-05	5,87E-04	2,54E-04
555	7,39E-05	8,52E-05	4,06E-05	5,95E-04	2,56E-04
556	6,80E-05	8,90E-05	2,95E-05	7,46E-04	2,60E-04
557	7,33E-05	1,00E-04	3,18E-05	6,14E-04	2,55E-04
558	6,91E-05	9,14E-05	3,33E-05	6,43E-04	2,44E-04
559	6,58E-05	9,57E-05	3,17E-05	6,51E-04	2,46E-04
560	6,89E-05	1,11E-04	3,21E-05	6,40E-04	2,48E-04
561	6,52E-05	9,45E-05	2,98E-05	6,45E-04	2,56E-04
562	6,52E-05	9,44E-05	3,95E-05	5,78E-04	2,63E-04
563	7,38E-05	8,80E-05	3,05E-05	6,82E-04	2,57E-04
564	7,20E-05	1,06E-04	3,57E-05	6,00E-04	2,61E-04
565	7,38E-05	9,89E-05	3,68E-05	5,86E-04	2,47E-04
566	7,55E-05	7,78E-05	3,16E-05	6,94E-04	2,53E-04
567	7,14E-05	1,01E-04	3,51E-05	6,29E-04	2,54E-04
568	7,49E-05	1,06E-04	3,50E-05	6,69E-04	2,51E-04
569	7,76E-05	9,58E-05	4,07E-05	6,22E-04	2,53E-04
570	7,17E-05	8,73E-05	3,67E-05	6,39E-04	2,55E-04
571	6,77E-05	8,09E-05	4,57E-05	5,84E-04	2,53E-04
572	7,05E-05	8,34E-05	4,00E-05	5,83E-04	2,53E-04
573	7,23E-05	7,71E-05	4,26E-05	7,06E-04	2,45E-04
574	6,22E-05	7,89E-05	3,94E-05	6,26E-04	2,57E-04
575	7,75E-05	8,91E-05	3,10E-05	6,20E-04	2,54E-04
576	7,68E-05	9,86E-05	4,59E-05	6,62E-04	2,50E-04
577	6,32E-05	9,26E-05	3,08E-05	6,42E-04	2,57E-04
578	8,05E-05	9,15E-05	2,33E-05	6,53E-04	2,50E-04
579	7,27E-05	8,05E-05	3,41E-05	6,90E-04	2,56E-04
580	6,30E-05	9,74E-05	3,38E-05	6,08E-04	2,53E-04
581	6,94E-05	7,90E-05	2,98E-05	6,16E-04	2,56E-04
582	7,19E-05	1,14E-04	3,09E-05	6,59E-04	2,59E-04
583	7,27E-05	8,52E-05	4,30E-05	6,78E-04	2,53E-04
584	6,34E-05	8,83E-05	3,33E-05	6,90E-04	2,62E-04
585	6,44E-05	1,03E-04	4,00E-05	7,48E-04	2,54E-04
586	6,41E-05	7,58E-05	3,15E-05	6,50E-04	2,54E-04
587	7,68E-05	9,89E-05	3,74E-05	5,89E-04	2,63E-04
588	5,82E-05	9,89E-05	3,54E-05	5,76E-04	2,58E-04
589	7,92E-05	9,97E-05	2,64E-05	6,94E-04	2,49E-04
590	7,52E-05	9,54E-05	4,72E-05	6,92E-04	2,66E-04
591	7,53E-05	6,50E-05	5,40E-05	6,45E-04	2,57E-04
592	6,08E-05	1,17E-04	4,10E-05	6,54E-04	2,51E-04
593	7,00E-05	9,35E-05	3,26E-05	6,05E-04	2,66E-04
594	7,47E-05	9,17E-05	3,50E-05	6,75E-04	2,54E-04
595	6,41E-05	1,03E-04	3,47E-05	6,54E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	1,76E-05	1,62E-05	1,67E-05	3,98E-05	1,70E-05
551	1,75E-05	1,92E-05	1,90E-05	7,11E-05	1,86E-05
552	2,17E-05	2,01E-05	1,96E-05	4,65E-05	2,09E-05
553	2,18E-05	1,60E-05	1,60E-05	5,22E-05	1,89E-05
554	1,90E-05	1,99E-05	1,75E-05	3,98E-05	1,94E-05
555	1,83E-05	1,71E-05	1,67E-05	2,36E-04	1,87E-05
556	2,18E-05	1,84E-05	1,65E-05	4,06E-05	2,00E-05
557	1,75E-05	1,98E-05	1,79E-05	1,64E-04	1,93E-05
558	1,76E-05	1,83E-05	1,71E-05	4,98E-05	1,80E-05
559	1,89E-05	1,74E-05	1,99E-05	8,70E-05	1,86E-05
560	1,69E-05	1,44E-05	1,89E-05	5,40E-05	1,61E-05
561	2,01E-05	1,39E-05	1,62E-05	6,88E-05	1,73E-05
562	1,77E-05	1,84E-05	1,63E-05	1,37E-04	1,85E-05
563	2,24E-05	1,73E-05	1,76E-05	7,29E-05	2,00E-05
564	1,65E-05	2,15E-05	1,82E-05	8,53E-05	1,92E-05
565	1,97E-05	1,86E-05	1,59E-05	8,21E-05	1,92E-05
566	2,00E-05	1,45E-05	1,72E-05	1,28E-04	1,79E-05
567	1,91E-05	1,72E-05	1,78E-05	3,55E-05	1,82E-05
568	1,85E-05	1,70E-05	1,73E-05	1,06E-04	1,81E-05
569	1,78E-05	1,82E-05	2,08E-05	2,94E-05	1,82E-05
570	1,72E-05	1,94E-05	1,64E-05	4,02E-05	1,82E-05
571	1,80E-05	1,61E-05	1,67E-05	7,67E-05	1,73E-05
572	2,09E-05	1,77E-05	2,44E-05	5,49E-05	1,99E-05
573	1,86E-05	1,59E-05	1,98E-05	2,93E-04	1,88E-05
574	2,13E-05	1,72E-05	1,58E-05	3,30E-05	1,91E-05
575	1,52E-05	1,78E-05	1,57E-05	9,88E-05	1,68E-05
576	1,96E-05	1,97E-05	1,76E-05	1,04E-04	1,99E-05
577	1,95E-05	1,77E-05	1,94E-05	1,26E-04	1,92E-05
578	2,18E-05	2,42E-05	1,77E-05	1,95E-04	2,34E-05
579	2,09E-05	2,39E-05	1,98E-05	7,18E-05	2,24E-05
580	1,81E-05	1,56E-05	1,61E-05	9,58E-05	1,72E-05
581	1,91E-05	2,66E-05	2,07E-05	2,37E-05	2,25E-05
582	2,17E-05	1,24E-05	1,61E-05	7,40E-05	1,75E-05
583	2,17E-05	1,50E-05	1,67E-05	5,12E-05	1,85E-05
584	1,97E-05	2,21E-05	1,56E-05	2,78E-05	2,05E-05
585	1,77E-05	1,92E-05	1,66E-05	4,35E-05	1,84E-05
586	2,10E-05	2,02E-05	1,59E-05	2,39E-04	2,13E-05
587	1,92E-05	1,72E-05	1,58E-05	8,58E-05	1,84E-05
588	1,79E-05	1,56E-05	1,77E-05	2,75E-05	1,69E-05
589	1,97E-05	1,31E-05	1,74E-05	5,04E-05	1,68E-05
590	2,19E-05	1,70E-05	1,74E-05	5,12E-05	1,95E-05
591	1,78E-05	1,45E-05	1,81E-05	4,82E-05	1,66E-05
592	1,64E-05	1,32E-05	1,68E-05	5,31E-05	1,52E-05
593	1,94E-05	2,39E-05	2,09E-05	7,00E-05	2,17E-05
594	1,91E-05	1,68E-05	1,84E-05	1,95E-05	1,80E-05
595	2,19E-05	2,13E-05	1,73E-05	4,97E-05	2,14E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
550	2,84E-04	4,48E-04	1,20E-04	2,29E-03	8,87E-04
551	2,68E-04	3,91E-04	1,69E-04	2,26E-03	8,59E-04
552	2,73E-04	4,22E-04	1,45E-04	2,28E-03	8,75E-04
553	3,03E-04	4,23E-04	1,37E-04	2,36E-03	9,08E-04
554	2,93E-04	4,06E-04	1,10E-04	2,26E-03	8,68E-04
555	2,68E-04	4,25E-04	1,41E-04	2,29E-03	8,76E-04
556	2,69E-04	4,46E-04	1,53E-04	2,31E-03	8,89E-04
557	3,00E-04	4,31E-04	1,18E-04	2,23E-03	8,71E-04
558	2,45E-04	3,77E-04	1,14E-04	2,23E-03	8,34E-04
559	2,70E-04	4,28E-04	1,08E-04	2,17E-03	8,41E-04
560	2,72E-04	3,97E-04	1,04E-04	2,25E-03	8,55E-04
561	3,09E-04	4,25E-04	1,97E-04	2,25E-03	8,81E-04
562	2,96E-04	4,35E-04	1,52E-04	2,33E-03	9,01E-04
563	2,76E-04	3,79E-04	1,52E-04	2,33E-03	8,77E-04
564	2,87E-04	4,69E-04	1,24E-04	2,29E-03	8,95E-04
565	2,80E-04	3,73E-04	9,16E-05	2,23E-03	8,43E-04
566	2,83E-04	4,38E-04	9,93E-05	2,24E-03	8,68E-04
567	3,08E-04	4,05E-04	9,73E-05	2,25E-03	8,69E-04
568	2,68E-04	4,01E-04	1,38E-04	2,26E-03	8,60E-04
569	2,89E-04	4,24E-04	1,34E-04	2,23E-03	8,67E-04
570	2,79E-04	3,82E-04	1,28E-04	2,32E-03	8,73E-04
571	2,74E-04	4,18E-04	1,53E-04	2,26E-03	8,69E-04
572	2,83E-04	4,20E-04	1,80E-04	2,21E-03	8,61E-04
573	2,56E-04	3,71E-04	9,31E-05	2,24E-03	8,38E-04
574	2,89E-04	3,84E-04	1,62E-04	2,31E-03	8,77E-04
575	2,91E-04	4,17E-04	1,19E-04	2,26E-03	8,73E-04
576	2,99E-04	3,84E-04	1,31E-04	2,21E-03	8,51E-04
577	2,83E-04	4,17E-04	1,40E-04	2,29E-03	8,78E-04
578	2,69E-04	3,83E-04	1,26E-04	2,22E-03	8,42E-04
579	3,10E-04	4,34E-04	1,22E-04	2,19E-03	8,65E-04
580	2,79E-04	4,00E-04	1,20E-04	2,28E-03	8,68E-04
581	2,90E-04	4,26E-04	1,60E-04	2,22E-03	8,66E-04
582	2,83E-04	4,03E-04	1,26E-04	2,35E-03	8,91E-04
583	2,79E-04	4,08E-04	1,52E-04	2,25E-03	8,65E-04
584	3,13E-04	4,22E-04	1,21E-04	2,30E-03	8,93E-04
585	2,98E-04	4,16E-04	1,63E-04	2,23E-03	8,68E-04
586	3,03E-04	4,23E-04	1,31E-04	2,20E-03	8,61E-04
587	2,72E-04	4,40E-04	1,06E-04	2,37E-03	9,01E-04
588	2,98E-04	4,00E-04	1,96E-04	2,31E-03	8,87E-04
589	2,87E-04	4,02E-04	8,84E-05	2,23E-03	8,54E-04
590	2,83E-04	4,98E-04	1,38E-04	2,31E-03	9,10E-04
591	2,85E-04	4,23E-04	1,76E-04	2,29E-03	8,84E-04
592	2,85E-04	3,84E-04	1,17E-04	2,29E-03	8,67E-04
593	2,80E-04	4,73E-04	1,74E-04	2,32E-03	9,04E-04
594	2,89E-04	4,02E-04	1,19E-04	2,28E-03	8,71E-04
595	2,80E-04	4,19E-04	9,49E-05	2,28E-03	8,71E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	6,75E-05	1,03E-04	3,72E-05	6,35E-04	2,49E-04
597	7,40E-05	9,08E-05	2,87E-05	7,02E-04	2,53E-04
598	7,37E-05	7,05E-05	3,81E-05	6,21E-04	2,50E-04
599	6,69E-05	8,17E-05	3,94E-05	6,63E-04	2,49E-04
600	6,85E-05	1,12E-04	4,54E-05	6,74E-04	2,51E-04
601	7,40E-05	9,67E-05	3,98E-05	6,06E-04	2,52E-04
602	6,25E-05	8,20E-05	3,49E-05	6,04E-04	2,44E-04
603	6,80E-05	7,48E-05	3,49E-05	6,37E-04	2,58E-04
604	7,11E-05	1,04E-04	3,96E-05	6,81E-04	2,64E-04
605	7,67E-05	1,10E-04	2,45E-05	6,57E-04	2,61E-04
606	7,65E-05	9,24E-05	3,67E-05	6,57E-04	2,51E-04
607	7,63E-05	9,67E-05	4,00E-05	6,47E-04	2,58E-04
608	6,91E-05	8,33E-05	3,16E-05	6,06E-04	2,53E-04
609	7,80E-05	7,61E-05	3,05E-05	6,13E-04	2,46E-04
610	7,16E-05	9,91E-05	2,47E-05	6,40E-04	2,55E-04
611	6,87E-05	7,78E-05	3,17E-05	6,80E-04	2,46E-04
612	7,49E-05	1,06E-04	2,74E-05	6,09E-04	2,50E-04
613	7,36E-05	8,08E-05	3,04E-05	6,47E-04	2,51E-04
614	7,03E-05	7,86E-05	3,06E-05	6,29E-04	2,52E-04
615	7,62E-05	9,76E-05	4,13E-05	5,99E-04	2,51E-04
616	6,95E-05	8,35E-05	2,40E-05	6,88E-04	2,49E-04
617	7,00E-05	8,46E-05	3,36E-05	6,95E-04	2,64E-04
618	5,86E-05	1,35E-04	3,42E-05	6,21E-04	2,53E-04
619	7,85E-05	6,78E-05	3,12E-05	6,76E-04	2,61E-04
620	7,29E-05	7,76E-05	3,89E-05	6,40E-04	2,58E-04
621	7,45E-05	7,99E-05	3,49E-05	6,09E-04	2,62E-04
622	7,06E-05	9,48E-05	3,60E-05	6,14E-04	2,57E-04
623	7,09E-05	1,19E-04	3,20E-05	7,29E-04	2,49E-04
624	8,17E-05	6,59E-05	3,38E-05	6,84E-04	2,52E-04
625	7,36E-05	8,36E-05	3,76E-05	6,31E-04	2,58E-04
626	6,64E-05	9,47E-05	4,97E-05	6,42E-04	2,50E-04
627	7,35E-05	8,87E-05	3,24E-05	6,11E-04	2,58E-04
628	7,09E-05	9,42E-05	3,63E-05	5,76E-04	2,46E-04
629	6,77E-05	8,53E-05	4,13E-05	6,77E-04	2,64E-04
630	6,75E-05	8,89E-05	4,15E-05	6,97E-04	2,56E-04
631	7,12E-05	8,20E-05	3,85E-05	6,27E-04	2,58E-04
632	6,97E-05	7,71E-05	4,73E-05	6,49E-04	2,59E-04
633	7,24E-05	8,53E-05	3,00E-05	6,35E-04	2,62E-04
634	7,64E-05	9,74E-05	3,45E-05	5,72E-04	2,54E-04
635	7,09E-05	9,89E-05	3,09E-05	6,96E-04	2,49E-04
636	6,65E-05	8,06E-05	4,14E-05	5,79E-04	2,62E-04
637	6,80E-05	1,05E-04	3,95E-05	6,84E-04	2,52E-04
638	6,90E-05	1,28E-04	3,17E-05	6,23E-04	2,61E-04
639	6,41E-05	9,50E-05	3,70E-05	6,01E-04	2,56E-04
640	7,41E-05	8,61E-05	4,65E-05	5,87E-04	2,53E-04
641	7,05E-05	9,34E-05	4,94E-05	6,13E-04	2,51E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	1,89E-05	2,51E-05	1,66E-05	4,41E-05	2,16E-05
597	2,02E-05	1,49E-05	1,63E-05	2,48E-05	1,76E-05
598	2,34E-05	1,57E-05	1,71E-05	2,69E-04	2,07E-05
599	1,98E-05	2,01E-05	1,62E-05	2,29E-05	1,97E-05
600	1,75E-05	1,50E-05	1,70E-05	4,63E-05	1,65E-05
601	1,76E-05	2,42E-05	1,66E-05	7,35E-05	2,07E-05
602	1,65E-05	1,71E-05	1,58E-05	1,03E-04	1,71E-05
603	1,78E-05	1,96E-05	1,90E-05	9,27E-05	1,90E-05
604	2,02E-05	2,90E-05	1,75E-05	9,79E-05	2,43E-05
605	1,82E-05	2,05E-05	1,79E-05	6,38E-05	1,94E-05
606	1,68E-05	1,90E-05	1,68E-05	1,04E-04	1,82E-05
607	1,99E-05	1,21E-05	1,70E-05	6,77E-05	1,65E-05
608	2,07E-05	1,81E-05	1,73E-05	4,85E-05	1,94E-05
609	1,63E-05	2,15E-05	1,82E-05	6,25E-05	1,90E-05
610	2,32E-05	2,09E-05	1,53E-05	5,04E-05	2,17E-05
611	1,80E-05	1,95E-05	1,58E-05	9,88E-05	1,89E-05
612	1,83E-05	1,45E-05	1,58E-05	7,44E-05	1,67E-05
613	1,91E-05	1,55E-05	1,64E-05	1,23E-04	1,78E-05
614	2,06E-05	1,96E-05	1,62E-05	1,61E-05	1,98E-05
615	1,94E-05	1,66E-05	1,91E-05	4,14E-05	1,83E-05
616	1,71E-05	1,58E-05	1,61E-05	7,33E-05	1,67E-05
617	1,74E-05	2,49E-05	1,74E-05	3,45E-05	2,08E-05
618	1,71E-05	1,50E-05	1,61E-05	3,28E-05	1,62E-05
619	1,84E-05	2,17E-05	1,64E-05	8,86E-05	2,00E-05
620	1,64E-05	1,36E-05	1,71E-05	6,08E-05	1,54E-05
621	1,74E-05	1,90E-05	1,90E-05	5,19E-05	1,84E-05
622	1,77E-05	2,43E-05	1,85E-05	1,65E-04	2,14E-05
623	1,84E-05	1,47E-05	1,68E-05	3,25E-05	1,67E-05
624	1,89E-05	1,69E-05	1,67E-05	4,50E-05	1,80E-05
625	2,02E-05	2,72E-05	1,64E-05	5,84E-05	2,32E-05
626	2,11E-05	1,48E-05	1,70E-05	1,08E-04	1,84E-05
627	1,90E-05	2,87E-05	1,82E-05	7,34E-05	2,35E-05
628	2,14E-05	1,98E-05	2,01E-05	1,94E-04	2,14E-05
629	2,04E-05	1,98E-05	1,68E-05	1,57E-05	1,99E-05
630	1,62E-05	1,84E-05	2,06E-05	1,42E-04	1,81E-05
631	1,86E-05	1,76E-05	2,06E-05	5,71E-05	1,85E-05
632	1,83E-05	1,50E-05	1,66E-05	3,15E-05	1,68E-05
633	1,97E-05	2,54E-05	2,07E-05	5,52E-05	2,24E-05
634	1,84E-05	1,35E-05	1,79E-05	7,99E-05	1,65E-05
635	1,66E-05	1,62E-05	1,81E-05	2,75E-05	1,66E-05
636	1,96E-05	1,70E-05	1,60E-05	2,28E-05	1,82E-05
637	2,36E-05	1,63E-05	1,61E-05	1,27E-04	2,03E-05
638	1,90E-05	2,42E-05	2,18E-05	1,53E-04	2,22E-05
639	2,08E-05	1,32E-05	1,83E-05	4,86E-05	1,74E-05
640	2,12E-05	1,57E-05	1,75E-05	8,91E-05	1,89E-05
641	1,83E-05	1,60E-05	1,58E-05	4,50E-05	1,72E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
596	2,87E-04	3,63E-04	1,26E-04	2,22E-03	8,44E-04
597	2,93E-04	4,27E-04	1,33E-04	2,24E-03	8,70E-04
598	2,57E-04	4,13E-04	1,77E-04	2,21E-03	8,48E-04
599	2,71E-04	3,89E-04	1,48E-04	2,22E-03	8,47E-04
600	2,85E-04	3,75E-04	1,78E-04	2,27E-03	8,62E-04
601	2,89E-04	4,03E-04	1,21E-04	2,23E-03	8,57E-04
602	2,65E-04	3,88E-04	1,54E-04	2,20E-03	8,39E-04
603	2,64E-04	4,23E-04	1,79E-04	2,31E-03	8,81E-04
604	2,97E-04	4,64E-04	1,40E-04	2,26E-03	8,90E-04
605	2,92E-04	4,69E-04	1,79E-04	2,26E-03	8,91E-04
606	2,84E-04	3,96E-04	1,23E-04	2,24E-03	8,58E-04
607	2,82E-04	3,97E-04	1,27E-04	2,35E-03	8,89E-04
608	2,73E-04	4,20E-04	1,54E-04	2,25E-03	8,65E-04
609	2,71E-04	4,18E-04	1,35E-04	2,17E-03	8,41E-04
610	2,92E-04	3,84E-04	1,21E-04	2,27E-03	8,66E-04
611	2,70E-04	3,73E-04	1,28E-04	2,22E-03	8,41E-04
612	2,74E-04	4,13E-04	1,50E-04	2,24E-03	8,60E-04
613	2,88E-04	3,99E-04	1,27E-04	2,24E-03	8,60E-04
614	2,79E-04	4,01E-04	1,61E-04	2,24E-03	8,60E-04
615	2,68E-04	4,22E-04	1,66E-04	2,23E-03	8,60E-04
616	2,75E-04	3,96E-04	1,18E-04	2,25E-03	8,56E-04
617	2,87E-04	4,60E-04	1,26E-04	2,32E-03	9,01E-04
618	2,65E-04	4,19E-04	1,41E-04	2,29E-03	8,73E-04
619	2,88E-04	4,51E-04	1,25E-04	2,29E-03	8,90E-04
620	2,94E-04	4,36E-04	1,12E-04	2,31E-03	8,93E-04
621	2,78E-04	4,58E-04	1,64E-04	2,32E-03	8,99E-04
622	2,69E-04	4,34E-04	1,34E-04	2,27E-03	8,74E-04
623	2,85E-04	3,68E-04	1,35E-04	2,26E-03	8,56E-04
624	2,85E-04	4,31E-04	1,06E-04	2,23E-03	8,65E-04
625	2,80E-04	4,36E-04	1,50E-04	2,25E-03	8,71E-04
626	2,87E-04	3,79E-04	1,36E-04	2,24E-03	8,54E-04
627	2,71E-04	4,23E-04	1,40E-04	2,27E-03	8,71E-04
628	2,88E-04	3,85E-04	1,20E-04	2,16E-03	8,32E-04
629	2,78E-04	5,01E-04	1,05E-04	2,30E-03	9,03E-04
630	2,86E-04	4,17E-04	1,30E-04	2,28E-03	8,76E-04
631	2,74E-04	4,50E-04	9,26E-05	2,29E-03	8,82E-04
632	2,79E-04	4,68E-04	8,56E-05	2,30E-03	8,92E-04
633	2,90E-04	4,44E-04	1,13E-04	2,29E-03	8,89E-04
634	2,80E-04	4,53E-04	8,79E-05	2,26E-03	8,76E-04
635	2,95E-04	3,96E-04	1,49E-04	2,22E-03	8,56E-04
636	2,94E-04	4,61E-04	1,64E-04	2,30E-03	9,00E-04
637	2,98E-04	4,27E-04	1,68E-04	2,18E-03	8,58E-04
638	2,58E-04	4,26E-04	1,84E-04	2,32E-03	8,84E-04
639	3,09E-04	3,84E-04	1,19E-04	2,30E-03	8,78E-04
640	2,70E-04	4,19E-04	1,35E-04	2,26E-03	8,66E-04
641	3,05E-04	3,90E-04	8,80E-05	2,24E-03	8,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	6,71E-05	9,93E-05	4,20E-05	5,75E-04	2,58E-04
643	7,54E-05	7,50E-05	2,57E-05	6,34E-04	2,55E-04
644	6,57E-05	1,08E-04	2,85E-05	6,46E-04	2,54E-04
645	6,60E-05	7,79E-05	2,89E-05	7,19E-04	2,55E-04
646	7,20E-05	8,02E-05	4,06E-05	6,68E-04	2,55E-04
647	7,75E-05	9,72E-05	4,39E-05	6,41E-04	2,52E-04
648	7,22E-05	9,91E-05	4,32E-05	5,86E-04	2,54E-04
649	6,41E-05	9,08E-05	4,08E-05	6,71E-04	2,53E-04
650	6,61E-05	8,57E-05	4,71E-05	6,72E-04	2,51E-04
651	6,09E-05	7,26E-05	3,43E-05	6,27E-04	2,52E-04
652	7,37E-05	7,77E-05	3,06E-05	5,97E-04	2,59E-04
653	7,57E-05	8,65E-05	3,96E-05	6,68E-04	2,55E-04
654	6,96E-05	9,12E-05	3,95E-05	5,81E-04	2,50E-04
655	6,40E-05	9,60E-05	4,32E-05	6,93E-04	2,58E-04
656	7,28E-05	8,99E-05	6,50E-05	7,03E-04	2,54E-04
657	6,47E-05	8,29E-05	4,85E-05	5,98E-04	2,51E-04
658	7,37E-05	1,07E-04	4,19E-05	6,70E-04	2,59E-04
659	7,90E-05	7,79E-05	3,46E-05	5,79E-04	2,48E-04
660	6,31E-05	8,13E-05	4,40E-05	6,89E-04	2,55E-04
661	6,63E-05	8,80E-05	4,41E-05	6,44E-04	2,61E-04
662	7,04E-05	9,84E-05	3,96E-05	6,51E-04	2,53E-04
663	7,54E-05	1,06E-04	4,39E-05	6,34E-04	2,67E-04
664	7,98E-05	8,29E-05	3,13E-05	6,63E-04	2,58E-04
665	7,43E-05	6,92E-05	2,84E-05	6,93E-04	2,52E-04
666	6,63E-05	8,10E-05	4,16E-05	6,86E-04	2,56E-04
667	5,96E-05	7,88E-05	4,14E-05	6,56E-04	2,55E-04
668	6,15E-05	8,15E-05	3,23E-05	5,67E-04	2,49E-04
669	7,21E-05	5,88E-05	2,87E-05	6,36E-04	2,49E-04
670	7,09E-05	8,45E-05	3,54E-05	7,16E-04	2,60E-04
671	7,71E-05	9,33E-05	4,35E-05	6,89E-04	2,50E-04
672	7,14E-05	7,94E-05	3,64E-05	6,19E-04	2,49E-04
673	8,16E-05	9,21E-05	3,22E-05	6,67E-04	2,44E-04
674	7,16E-05	7,79E-05	3,24E-05	6,17E-04	2,44E-04
675	6,41E-05	6,86E-05	3,48E-05	5,99E-04	2,48E-04
676	6,55E-05	7,65E-05	3,05E-05	6,56E-04	2,45E-04
677	8,17E-05	1,10E-04	3,62E-05	6,36E-04	2,58E-04
678	7,96E-05	7,99E-05	3,52E-05	6,00E-04	2,55E-04
679	7,33E-05	9,42E-05	2,86E-05	6,55E-04	2,53E-04
680	7,42E-05	9,94E-05	3,30E-05	6,41E-04	2,56E-04
681	7,15E-05	8,36E-05	3,51E-05	6,87E-04	2,54E-04
682	6,91E-05	8,51E-05	3,66E-05	6,83E-04	2,58E-04
683	7,22E-05	8,79E-05	3,94E-05	6,16E-04	2,57E-04
684	7,53E-05	8,52E-05	3,73E-05	6,47E-04	2,52E-04
685	8,29E-05	9,21E-05	4,78E-05	5,89E-04	2,53E-04
686	8,13E-05	1,15E-04	3,87E-05	6,63E-04	2,59E-04
687	7,64E-05	1,00E-04	3,47E-05	6,73E-04	2,61E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	2,01E-05	3,15E-05	1,72E-05	5,98E-05	2,51E-05
643	1,93E-05	1,18E-05	1,96E-05	1,13E-04	1,65E-05
644	1,91E-05	1,78E-05	2,31E-05	4,16E-05	1,89E-05
645	1,67E-05	1,62E-05	1,54E-05	7,59E-05	1,67E-05
646	1,86E-05	1,82E-05	1,61E-05	9,46E-05	1,86E-05
647	2,00E-05	2,04E-05	1,84E-05	7,34E-05	2,03E-05
648	1,79E-05	1,41E-05	2,03E-05	2,03E-05	1,64E-05
649	2,04E-05	2,12E-05	1,65E-05	3,02E-05	2,05E-05
650	2,13E-05	1,60E-05	1,93E-05	1,25E-04	1,93E-05
651	1,68E-05	1,93E-05	1,62E-05	1,75E-04	1,87E-05
652	2,05E-05	2,46E-05	1,53E-05	7,83E-05	2,22E-05
653	1,91E-05	1,75E-05	1,84E-05	3,75E-05	1,84E-05
654	1,88E-05	1,52E-05	1,68E-05	3,66E-04	1,88E-05
655	1,63E-05	2,46E-05	2,06E-05	7,18E-05	2,06E-05
656	1,65E-05	1,96E-05	1,51E-05	6,64E-05	1,80E-05
657	1,85E-05	1,38E-05	1,79E-05	1,79E-05	1,64E-05
658	1,69E-05	1,87E-05	1,90E-05	7,13E-05	1,81E-05
659	1,87E-05	1,64E-05	1,77E-05	5,73E-05	1,78E-05
660	2,00E-05	1,50E-05	1,95E-05	1,07E-04	1,82E-05
661	1,95E-05	2,60E-05	1,76E-05	4,42E-05	2,23E-05
662	1,67E-05	1,56E-05	1,77E-05	1,35E-04	1,69E-05
663	1,83E-05	1,28E-05	1,94E-05	5,13E-05	1,61E-05
664	1,62E-05	2,47E-05	1,79E-05	3,82E-05	2,02E-05
665	2,16E-05	2,17E-05	1,71E-05	1,13E-04	2,17E-05
666	2,20E-05	1,32E-05	1,97E-05	1,19E-04	1,84E-05
667	1,77E-05	2,06E-05	2,09E-05	7,92E-05	1,95E-05
668	1,88E-05	2,21E-05	1,75E-05	7,50E-05	2,04E-05
669	2,23E-05	1,44E-05	1,69E-05	1,33E-04	1,89E-05
670	2,32E-05	1,38E-05	1,62E-05	7,38E-05	1,88E-05
671	1,95E-05	2,62E-05	1,86E-05	3,00E-05	2,24E-05
672	2,27E-05	1,39E-05	1,65E-05	1,78E-05	1,83E-05
673	1,70E-05	1,78E-05	2,09E-05	2,42E-04	1,87E-05
674	1,91E-05	1,80E-05	1,77E-05	1,21E-04	1,90E-05
675	1,65E-05	1,72E-05	1,68E-05	1,96E-05	1,69E-05
676	1,97E-05	1,66E-05	1,75E-05	2,11E-04	1,91E-05
677	2,28E-05	1,32E-05	1,75E-05	1,02E-04	1,85E-05
678	2,12E-05	2,12E-05	1,62E-05	6,53E-05	2,10E-05
679	2,10E-05	2,05E-05	1,68E-05	3,12E-05	2,05E-05
680	1,97E-05	1,68E-05	1,58E-05	4,58E-05	1,82E-05
681	1,70E-05	2,21E-05	1,81E-05	1,86E-05	1,93E-05
682	2,14E-05	1,40E-05	1,76E-05	2,26E-04	1,88E-05
683	1,82E-05	1,82E-05	1,65E-05	8,70E-05	1,84E-05
684	1,71E-05	1,57E-05	1,58E-05	1,90E-04	1,72E-05
685	1,84E-05	1,72E-05	2,06E-05	5,96E-05	1,82E-05
686	2,06E-05	1,85E-05	1,59E-05	8,75E-05	1,96E-05
687	2,01E-05	1,36E-05	1,56E-05	6,11E-05	1,71E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
642	2,87E-04	3,68E-04	1,69E-04	2,29E-03	8,65E-04
643	2,74E-04	4,07E-04	1,34E-04	2,31E-03	8,77E-04
644	2,69E-04	4,25E-04	1,26E-04	2,26E-03	8,67E-04
645	2,68E-04	4,59E-04	1,55E-04	2,26E-03	8,79E-04
646	2,83E-04	4,13E-04	2,05E-04	2,25E-03	8,71E-04
647	2,64E-04	3,76E-04	1,43E-04	2,28E-03	8,57E-04
648	2,71E-04	4,12E-04	1,04E-04	2,31E-03	8,76E-04
649	2,70E-04	4,18E-04	1,16E-04	2,25E-03	8,60E-04
650	2,84E-04	4,03E-04	1,14E-04	2,23E-03	8,55E-04
651	2,74E-04	4,21E-04	1,31E-04	2,23E-03	8,60E-04
652	2,93E-04	4,22E-04	1,33E-04	2,27E-03	8,77E-04
653	2,80E-04	4,12E-04	1,80E-04	2,28E-03	8,75E-04
654	2,79E-04	4,04E-04	1,13E-04	2,22E-03	8,53E-04
655	2,77E-04	4,10E-04	1,07E-04	2,31E-03	8,79E-04
656	2,90E-04	4,00E-04	8,63E-05	2,28E-03	8,70E-04
657	2,71E-04	4,20E-04	1,68E-04	2,24E-03	8,64E-04
658	2,78E-04	4,54E-04	1,45E-04	2,29E-03	8,88E-04
659	2,64E-04	3,65E-04	9,49E-05	2,27E-03	8,48E-04
660	2,88E-04	5,03E-04	1,47E-04	2,17E-03	8,75E-04
661	2,74E-04	5,05E-04	1,34E-04	2,23E-03	8,86E-04
662	2,97E-04	3,82E-04	1,05E-04	2,30E-03	8,72E-04
663	3,03E-04	5,19E-04	1,47E-04	2,31E-03	9,23E-04
664	2,72E-04	4,30E-04	1,36E-04	2,30E-03	8,81E-04
665	2,85E-04	3,90E-04	1,59E-04	2,23E-03	8,55E-04
666	3,05E-04	4,06E-04	1,58E-04	2,27E-03	8,77E-04
667	2,73E-04	4,77E-04	2,21E-04	2,19E-03	8,72E-04
668	2,83E-04	4,36E-04	1,15E-04	2,16E-03	8,47E-04
669	2,84E-04	3,89E-04	1,85E-04	2,20E-03	8,49E-04
670	2,72E-04	4,07E-04	1,16E-04	2,36E-03	8,91E-04
671	2,86E-04	4,03E-04	7,76E-05	2,20E-03	8,46E-04
672	2,91E-04	3,57E-04	1,02E-04	2,27E-03	8,53E-04
673	2,77E-04	3,89E-04	1,12E-04	2,18E-03	8,34E-04
674	2,70E-04	3,73E-04	1,57E-04	2,18E-03	8,31E-04
675	2,83E-04	3,82E-04	1,37E-04	2,24E-03	8,52E-04
676	2,73E-04	4,44E-04	1,00E-04	2,13E-03	8,36E-04
677	2,71E-04	4,34E-04	1,79E-04	2,29E-03	8,84E-04
678	2,80E-04	4,45E-04	1,66E-04	2,21E-03	8,65E-04
679	2,96E-04	3,81E-04	1,41E-04	2,26E-03	8,62E-04
680	2,99E-04	4,45E-04	1,19E-04	2,25E-03	8,79E-04
681	2,86E-04	4,03E-04	1,42E-04	2,26E-03	8,68E-04
682	2,80E-04	4,43E-04	1,22E-04	2,29E-03	8,84E-04
683	2,76E-04	4,05E-04	1,18E-04	2,33E-03	8,82E-04
684	2,77E-04	3,99E-04	1,39E-04	2,27E-03	8,66E-04
685	2,81E-04	4,24E-04	1,44E-04	2,25E-03	8,68E-04
686	2,96E-04	4,26E-04	1,27E-04	2,29E-03	8,84E-04
687	2,94E-04	4,82E-04	1,27E-04	2,27E-03	8,97E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	7,18E-05	8,06E-05	3,72E-05	6,08E-04	2,60E-04
689	6,45E-05	7,86E-05	4,20E-05	6,52E-04	2,50E-04
690	6,75E-05	8,92E-05	4,66E-05	6,60E-04	2,57E-04
691	7,69E-05	8,99E-05	4,07E-05	6,82E-04	2,57E-04
692	8,72E-05	8,07E-05	2,48E-05	6,51E-04	2,45E-04
693	7,04E-05	7,82E-05	3,57E-05	7,12E-04	2,66E-04
694	7,75E-05	9,69E-05	3,10E-05	6,75E-04	2,61E-04
695	6,54E-05	8,25E-05	2,75E-05	6,63E-04	2,57E-04
696	6,78E-05	1,03E-04	3,31E-05	7,15E-04	2,54E-04
697	7,73E-05	8,79E-05	2,55E-05	6,93E-04	2,48E-04
698	6,42E-05	8,31E-05	4,46E-05	6,28E-04	2,51E-04
699	7,48E-05	8,96E-05	5,99E-05	6,51E-04	2,53E-04
700	7,07E-05	9,25E-05	3,41E-05	6,53E-04	2,63E-04
701	6,86E-05	6,67E-05	3,74E-05	7,10E-04	2,48E-04
702	7,28E-05	1,05E-04	3,63E-05	6,73E-04	2,62E-04
703	7,35E-05	8,67E-05	4,12E-05	6,73E-04	2,59E-04
704	6,26E-05	1,13E-04	4,34E-05	6,81E-04	2,62E-04
705	6,44E-05	1,08E-04	3,90E-05	6,17E-04	2,54E-04
706	7,32E-05	6,65E-05	3,97E-05	6,29E-04	2,55E-04
707	6,50E-05	8,63E-05	3,40E-05	6,40E-04	2,53E-04
708	7,19E-05	9,21E-05	4,12E-05	6,65E-04	2,56E-04
709	6,42E-05	9,57E-05	3,29E-05	6,56E-04	2,47E-04
710	7,33E-05	8,42E-05	3,73E-05	7,13E-04	2,57E-04
711	5,92E-05	9,51E-05	3,39E-05	6,25E-04	2,63E-04
712	7,10E-05	7,40E-05	3,43E-05	6,30E-04	2,56E-04
713	6,17E-05	1,25E-04	4,06E-05	6,33E-04	2,56E-04
714	6,83E-05	1,14E-04	3,38E-05	6,03E-04	2,65E-04
715	6,82E-05	8,26E-05	3,22E-05	6,56E-04	2,52E-04
716	8,32E-05	9,71E-05	2,65E-05	5,60E-04	2,59E-04
717	6,50E-05	9,14E-05	3,39E-05	6,84E-04	2,52E-04
718	5,82E-05	9,35E-05	3,22E-05	6,28E-04	2,52E-04
719	7,44E-05	8,98E-05	2,95E-05	7,05E-04	2,50E-04
720	6,72E-05	9,25E-05	2,57E-05	6,29E-04	2,52E-04
721	6,32E-05	9,25E-05	3,60E-05	5,93E-04	2,53E-04
722	6,99E-05	6,48E-05	3,63E-05	6,57E-04	2,57E-04
723	6,49E-05	1,24E-04	3,56E-05	6,86E-04	2,64E-04
724	6,25E-05	1,03E-04	3,36E-05	6,26E-04	2,49E-04
725	8,08E-05	9,48E-05	4,25E-05	6,68E-04	2,56E-04
726	7,44E-05	8,66E-05	3,80E-05	6,27E-04	2,56E-04
727	7,45E-05	1,28E-04	4,57E-05	6,59E-04	2,56E-04
728	6,39E-05	9,40E-05	4,49E-05	6,50E-04	2,50E-04
729	7,27E-05	7,98E-05	4,82E-05	6,65E-04	2,56E-04
730	6,22E-05	1,02E-04	5,58E-05	5,64E-04	2,61E-04
731	6,47E-05	9,23E-05	3,51E-05	6,34E-04	2,57E-04
732	6,77E-05	1,18E-04	3,45E-05	6,14E-04	2,57E-04
733	7,03E-05	1,02E-04	3,18E-05	6,40E-04	2,50E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	2,01E-05	1,43E-05	1,58E-05	6,88E-05	1,75E-05
689	1,94E-05	1,72E-05	1,62E-05	3,26E-05	1,83E-05
690	1,85E-05	1,69E-05	1,79E-05	8,34E-05	1,81E-05
691	1,96E-05	2,11E-05	1,83E-05	4,17E-05	2,03E-05
692	1,83E-05	1,62E-05	1,63E-05	8,93E-05	1,75E-05
693	2,02E-05	2,03E-05	1,61E-05	7,44E-05	2,02E-05
694	1,93E-05	2,10E-05	2,06E-05	2,72E-04	2,14E-05
695	1,64E-05	2,10E-05	1,65E-05	2,18E-04	1,94E-05
696	1,99E-05	1,29E-05	1,53E-05	9,64E-05	1,68E-05
697	1,70E-05	1,64E-05	1,64E-05	5,46E-05	1,69E-05
698	1,82E-05	1,78E-05	1,80E-05	5,41E-05	1,82E-05
699	1,75E-05	2,04E-05	1,59E-05	7,66E-05	1,89E-05
700	2,00E-05	2,55E-05	1,90E-05	6,70E-05	2,26E-05
701	1,86E-05	1,41E-05	1,61E-05	2,57E-05	1,65E-05
702	1,98E-05	1,46E-05	1,70E-05	6,27E-05	1,75E-05
703	2,11E-05	2,08E-05	1,94E-05	7,58E-05	2,11E-05
704	2,20E-05	2,07E-05	1,55E-05	2,34E-05	2,10E-05
705	1,79E-05	1,55E-05	2,32E-05	6,60E-05	1,75E-05
706	1,93E-05	1,44E-05	2,09E-05	1,10E-04	1,77E-05
707	1,99E-05	1,85E-05	1,87E-05	6,18E-05	1,94E-05
708	1,80E-05	1,38E-05	1,65E-05	4,90E-05	1,62E-05
709	2,20E-05	1,43E-05	2,13E-05	1,71E-05	1,85E-05
710	1,82E-05	2,17E-05	1,73E-05	1,85E-05	1,97E-05
711	1,76E-05	1,57E-05	1,66E-05	1,07E-04	1,71E-05
712	1,90E-05	2,60E-05	1,69E-05	5,72E-05	2,21E-05
713	2,07E-05	1,39E-05	1,86E-05	3,33E-05	1,76E-05
714	1,93E-05	1,75E-05	1,99E-05	2,58E-04	1,97E-05
715	1,87E-05	1,65E-05	1,73E-05	6,09E-05	1,78E-05
716	2,11E-05	1,78E-05	1,72E-05	5,31E-05	1,95E-05
717	1,94E-05	1,42E-05	1,64E-05	6,11E-05	1,71E-05
718	2,06E-05	1,46E-05	1,54E-05	2,68E-04	1,88E-05
719	1,82E-05	1,70E-05	1,57E-05	1,21E-04	1,79E-05
720	2,05E-05	2,11E-05	1,72E-05	7,44E-05	2,07E-05
721	2,11E-05	2,76E-05	1,66E-05	4,00E-05	2,37E-05
722	2,14E-05	1,94E-05	1,94E-05	1,47E-04	2,10E-05
723	2,25E-05	2,11E-05	1,66E-05	6,76E-05	2,16E-05
724	1,85E-05	2,06E-05	1,62E-05	8,62E-05	1,96E-05
725	1,79E-05	1,73E-05	1,80E-05	9,99E-05	1,81E-05
726	2,27E-05	2,67E-05	1,78E-05	2,10E-05	2,41E-05
727	1,89E-05	1,66E-05	1,66E-05	6,69E-05	1,79E-05
728	1,82E-05	1,78E-05	1,76E-05	8,35E-05	1,83E-05
729	2,08E-05	1,98E-05	1,75E-05	8,64E-05	2,04E-05
730	1,80E-05	1,86E-05	1,65E-05	9,98E-05	1,86E-05
731	1,98E-05	1,76E-05	1,84E-05	1,95E-04	1,96E-05
732	1,88E-05	1,94E-05	1,56E-05	5,18E-05	1,90E-05
733	1,69E-05	1,63E-05	1,84E-05	1,01E-04	1,72E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
688	2,72E-04	4,48E-04	2,00E-04	2,31E-03	8,95E-04
689	2,93E-04	4,00E-04	1,45E-04	2,22E-03	8,57E-04
690	2,88E-04	4,13E-04	1,54E-04	2,30E-03	8,82E-04
691	2,65E-04	4,45E-04	1,82E-04	2,27E-03	8,77E-04
692	2,66E-04	4,06E-04	1,34E-04	2,19E-03	8,41E-04
693	2,72E-04	4,62E-04	1,50E-04	2,36E-03	9,08E-04
694	2,87E-04	4,33E-04	1,33E-04	2,30E-03	8,88E-04
695	2,87E-04	4,50E-04	1,68E-04	2,24E-03	8,78E-04
696	2,68E-04	4,18E-04	9,82E-05	2,31E-03	8,75E-04
697	2,96E-04	3,96E-04	1,42E-04	2,21E-03	8,54E-04
698	2,68E-04	3,99E-04	1,33E-04	2,27E-03	8,61E-04
699	2,93E-04	4,12E-04	1,22E-04	2,24E-03	8,66E-04
700	2,89E-04	4,48E-04	1,53E-04	2,29E-03	8,91E-04
701	2,62E-04	4,33E-04	1,07E-04	2,22E-03	8,55E-04
702	2,92E-04	4,52E-04	1,28E-04	2,33E-03	9,02E-04
703	2,70E-04	3,86E-04	2,07E-04	2,34E-03	8,82E-04
704	2,71E-04	4,25E-04	1,83E-04	2,33E-03	8,91E-04
705	2,82E-04	4,42E-04	1,17E-04	2,25E-03	8,72E-04
706	2,82E-04	4,35E-04	1,03E-04	2,26E-03	8,74E-04
707	2,78E-04	3,95E-04	1,19E-04	2,27E-03	8,64E-04
708	3,03E-04	4,34E-04	1,46E-04	2,26E-03	8,83E-04
709	2,64E-04	3,68E-04	1,24E-04	2,25E-03	8,45E-04
710	2,66E-04	3,96E-04	1,42E-04	2,33E-03	8,78E-04
711	2,77E-04	4,69E-04	1,36E-04	2,34E-03	9,06E-04
712	2,81E-04	3,84E-04	1,24E-04	2,29E-03	8,66E-04
713	3,02E-04	3,96E-04	1,28E-04	2,29E-03	8,79E-04
714	3,04E-04	4,74E-04	1,33E-04	2,30E-03	9,07E-04
715	3,10E-04	4,79E-04	9,49E-05	2,15E-03	8,65E-04
716	2,63E-04	4,15E-04	1,10E-04	2,34E-03	8,84E-04
717	2,89E-04	3,85E-04	1,85E-04	2,27E-03	8,67E-04
718	2,43E-04	4,25E-04	8,15E-05	2,28E-03	8,60E-04
719	2,74E-04	4,36E-04	1,37E-04	2,20E-03	8,57E-04
720	2,82E-04	3,73E-04	1,23E-04	2,26E-03	8,56E-04
721	2,85E-04	4,19E-04	1,17E-04	2,20E-03	8,54E-04
722	2,76E-04	3,88E-04	1,32E-04	2,32E-03	8,74E-04
723	3,00E-04	4,78E-04	1,15E-04	2,27E-03	8,98E-04
724	2,90E-04	4,19E-04	1,37E-04	2,18E-03	8,50E-04
725	2,71E-04	4,18E-04	1,83E-04	2,29E-03	8,77E-04
726	2,76E-04	4,18E-04	1,34E-04	2,24E-03	8,62E-04
727	2,70E-04	4,04E-04	1,99E-04	2,31E-03	8,79E-04
728	2,74E-04	4,10E-04	2,14E-04	2,21E-03	8,55E-04
729	2,98E-04	3,85E-04	1,51E-04	2,28E-03	8,70E-04
730	2,97E-04	4,65E-04	1,13E-04	2,28E-03	8,94E-04
731	2,88E-04	4,35E-04	1,89E-04	2,25E-03	8,77E-04
732	2,51E-04	4,07E-04	1,25E-04	2,35E-03	8,81E-04
733	2,70E-04	4,16E-04	1,46E-04	2,24E-03	8,60E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	7,07E-05	1,09E-04	3,75E-05	6,50E-04	2,52E-04
735	7,20E-05	7,66E-05	5,64E-05	5,76E-04	2,55E-04
736	7,52E-05	8,90E-05	3,39E-05	6,77E-04	2,53E-04
737	6,51E-05	1,10E-04	2,96E-05	6,45E-04	2,44E-04
738	6,83E-05	7,50E-05	4,03E-05	5,90E-04	2,46E-04
739	7,56E-05	9,37E-05	2,74E-05	5,91E-04	2,50E-04
740	7,10E-05	9,43E-05	3,32E-05	6,86E-04	2,65E-04
741	6,38E-05	8,32E-05	3,54E-05	7,19E-04	2,59E-04
742	6,12E-05	7,62E-05	3,46E-05	6,57E-04	2,57E-04
743	7,26E-05	9,51E-05	4,35E-05	6,31E-04	2,54E-04
744	6,31E-05	9,38E-05	2,58E-05	6,72E-04	2,55E-04
745	6,34E-05	8,72E-05	2,67E-05	6,84E-04	2,51E-04
746	6,45E-05	1,10E-04	4,20E-05	5,88E-04	2,51E-04
747	7,08E-05	1,09E-04	4,26E-05	6,41E-04	2,54E-04
748	7,54E-05	8,01E-05	4,67E-05	6,03E-04	2,51E-04
749	6,13E-05	9,69E-05	2,83E-05	6,27E-04	2,55E-04
750	7,06E-05	8,08E-05	2,74E-05	6,13E-04	2,59E-04
751	6,70E-05	9,88E-05	2,42E-05	6,58E-04	2,60E-04
752	7,50E-05	7,97E-05	3,19E-05	6,84E-04	2,53E-04
753	6,97E-05	1,04E-04	3,27E-05	6,68E-04	2,56E-04
754	6,85E-05	8,78E-05	4,15E-05	5,80E-04	2,68E-04
755	6,11E-05	8,69E-05	4,99E-05	6,94E-04	2,52E-04
756	7,57E-05	9,61E-05	3,52E-05	6,48E-04	2,63E-04
757	7,09E-05	7,38E-05	3,53E-05	6,20E-04	2,54E-04
758	6,28E-05	9,97E-05	4,18E-05	6,77E-04	2,57E-04
759	7,00E-05	9,50E-05	3,91E-05	6,38E-04	2,58E-04
760	8,20E-05	1,11E-04	3,39E-05	6,42E-04	2,58E-04
761	8,07E-05	9,57E-05	3,43E-05	7,10E-04	2,54E-04
762	6,51E-05	8,90E-05	3,66E-05	6,47E-04	2,65E-04
763	6,21E-05	1,21E-04	2,87E-05	5,83E-04	2,59E-04
764	8,14E-05	1,00E-04	3,16E-05	6,91E-04	2,55E-04
765	7,69E-05	8,05E-05	3,03E-05	6,38E-04	2,47E-04
766	7,58E-05	1,02E-04	3,02E-05	6,75E-04	2,58E-04
767	6,43E-05	1,25E-04	4,67E-05	5,70E-04	2,56E-04
768	6,35E-05	9,82E-05	3,90E-05	6,16E-04	2,59E-04
769	7,69E-05	1,13E-04	2,74E-05	6,25E-04	2,54E-04
770	6,86E-05	1,18E-04	4,10E-05	6,99E-04	2,55E-04
771	6,29E-05	8,98E-05	2,78E-05	6,28E-04	2,56E-04
772	7,70E-05	1,10E-04	3,17E-05	6,32E-04	2,54E-04
773	6,37E-05	8,69E-05	5,06E-05	6,77E-04	2,58E-04
774	6,71E-05	1,08E-04	2,67E-05	7,52E-04	2,58E-04
775	7,28E-05	1,01E-04	3,79E-05	5,86E-04	2,49E-04
776	7,14E-05	8,90E-05	3,22E-05	6,10E-04	2,57E-04
777	7,89E-05	9,26E-05	4,03E-05	6,24E-04	2,50E-04
778	7,95E-05	9,48E-05	4,02E-05	6,37E-04	2,61E-04
779	7,10E-05	8,11E-05	3,58E-05	6,61E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	2,10E-05	1,45E-05	1,59E-05	5,42E-05	1,79E-05
735	2,10E-05	2,19E-05	1,95E-05	5,03E-05	2,14E-05
736	1,94E-05	1,40E-05	1,87E-05	4,21E-05	1,71E-05
737	1,80E-05	1,68E-05	2,02E-05	1,02E-04	1,81E-05
738	1,85E-05	1,90E-05	1,71E-05	2,99E-04	2,00E-05
739	2,18E-05	1,39E-05	2,54E-05	1,93E-05	1,86E-05
740	1,89E-05	1,54E-05	1,83E-05	5,04E-05	1,75E-05
741	1,88E-05	1,43E-05	1,78E-05	1,23E-04	1,72E-05
742	1,98E-05	2,05E-05	1,58E-05	3,14E-05	1,99E-05
743	1,89E-05	1,76E-05	1,91E-05	5,48E-05	1,85E-05
744	1,71E-05	2,03E-05	2,01E-05	8,66E-05	1,91E-05
745	1,81E-05	2,03E-05	1,65E-05	6,97E-05	1,92E-05
746	1,91E-05	2,17E-05	1,61E-05	5,25E-05	2,02E-05
747	1,79E-05	1,51E-05	1,61E-05	4,69E-05	1,67E-05
748	1,79E-05	1,85E-05	2,20E-05	1,11E-04	1,89E-05
749	1,65E-05	2,82E-05	1,75E-05	5,08E-05	2,19E-05
750	2,07E-05	2,74E-05	1,62E-05	8,27E-05	2,36E-05
751	2,35E-05	1,73E-05	1,72E-05	5,89E-05	2,05E-05
752	2,02E-05	2,15E-05	1,68E-05	9,10E-05	2,08E-05
753	1,96E-05	1,80E-05	1,72E-05	4,46E-05	1,88E-05
754	2,15E-05	1,76E-05	1,58E-05	1,32E-04	1,99E-05
755	1,68E-05	2,14E-05	1,77E-05	1,35E-04	1,94E-05
756	2,16E-05	2,77E-05	1,70E-05	4,63E-05	2,41E-05
757	2,10E-05	2,33E-05	1,56E-05	1,30E-04	2,21E-05
758	1,70E-05	1,52E-05	2,01E-05	1,69E-04	1,72E-05
759	1,86E-05	2,26E-05	1,69E-05	1,14E-04	2,07E-05
760	2,04E-05	2,34E-05	1,67E-05	1,39E-04	2,20E-05
761	1,99E-05	1,75E-05	1,65E-05	9,42E-05	1,89E-05
762	1,72E-05	1,37E-05	1,67E-05	1,44E-04	1,63E-05
763	2,24E-05	2,25E-05	1,74E-05	7,18E-05	2,23E-05
764	2,47E-05	1,55E-05	1,95E-05	4,52E-05	2,04E-05
765	1,85E-05	1,17E-05	1,60E-05	3,51E-05	1,54E-05
766	2,13E-05	1,63E-05	1,80E-05	5,84E-05	1,90E-05
767	1,69E-05	1,61E-05	1,65E-05	5,00E-05	1,67E-05
768	2,22E-05	1,42E-05	1,68E-05	6,45E-05	1,85E-05
769	1,95E-05	2,18E-05	1,94E-05	6,52E-05	2,07E-05
770	1,91E-05	1,57E-05	1,73E-05	3,46E-05	1,75E-05
771	1,78E-05	1,77E-05	1,80E-05	9,22E-05	1,81E-05
772	2,15E-05	1,52E-05	1,82E-05	6,01E-05	1,86E-05
773	1,88E-05	1,45E-05	1,58E-05	3,04E-05	1,67E-05
774	1,95E-05	1,48E-05	1,56E-05	4,90E-05	1,73E-05
775	1,79E-05	1,54E-05	1,76E-05	7,43E-05	1,70E-05
776	1,90E-05	2,73E-05	1,76E-05	5,53E-05	2,27E-05
777	1,68E-05	1,36E-05	1,72E-05	7,24E-05	1,57E-05
778	1,63E-05	2,21E-05	1,67E-05	4,43E-05	1,90E-05
779	1,99E-05	1,33E-05	1,72E-05	8,72E-05	1,71E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
734	3,02E-04	4,09E-04	1,30E-04	2,22E-03	8,62E-04
735	2,81E-04	4,18E-04	1,15E-04	2,25E-03	8,66E-04
736	2,49E-04	4,59E-04	1,36E-04	2,25E-03	8,70E-04
737	2,67E-04	3,84E-04	9,89E-05	2,20E-03	8,35E-04
738	2,67E-04	3,82E-04	8,13E-05	2,21E-03	8,36E-04
739	2,72E-04	4,35E-04	1,36E-04	2,19E-03	8,53E-04
740	2,81E-04	4,34E-04	1,09E-04	2,40E-03	9,11E-04
741	2,82E-04	4,39E-04	1,28E-04	2,31E-03	8,91E-04
742	2,95E-04	4,20E-04	1,20E-04	2,27E-03	8,78E-04
743	2,77E-04	3,99E-04	1,68E-04	2,28E-03	8,70E-04
744	2,81E-04	4,38E-04	1,17E-04	2,26E-03	8,73E-04
745	2,70E-04	3,88E-04	1,44E-04	2,26E-03	8,56E-04
746	2,82E-04	4,13E-04	1,45E-04	2,20E-03	8,53E-04
747	2,45E-04	4,60E-04	1,09E-04	2,28E-03	8,74E-04
748	2,98E-04	3,58E-04	1,56E-04	2,26E-03	8,57E-04
749	2,77E-04	4,24E-04	1,29E-04	2,23E-03	8,63E-04
750	2,60E-04	3,91E-04	1,29E-04	2,34E-03	8,76E-04
751	3,03E-04	4,34E-04	1,01E-04	2,28E-03	8,86E-04
752	2,69E-04	3,95E-04	1,55E-04	2,26E-03	8,60E-04
753	2,89E-04	4,17E-04	1,86E-04	2,27E-03	8,77E-04
754	2,91E-04	4,76E-04	1,78E-04	2,34E-03	9,17E-04
755	2,84E-04	4,27E-04	1,13E-04	2,22E-03	8,59E-04
756	2,90E-04	4,23E-04	1,35E-04	2,30E-03	8,86E-04
757	2,67E-04	3,66E-04	1,24E-04	2,31E-03	8,61E-04
758	2,98E-04	4,22E-04	1,50E-04	2,28E-03	8,83E-04
759	2,62E-04	4,46E-04	1,62E-04	2,27E-03	8,77E-04
760	2,63E-04	4,39E-04	9,07E-05	2,29E-03	8,76E-04
761	2,78E-04	4,09E-04	1,38E-04	2,28E-03	8,70E-04
762	3,00E-04	4,96E-04	7,93E-05	2,33E-03	9,16E-04
763	2,60E-04	4,34E-04	1,05E-04	2,30E-03	8,77E-04
764	2,93E-04	3,94E-04	1,53E-04	2,27E-03	8,69E-04
765	2,70E-04	4,09E-04	1,27E-04	2,22E-03	8,52E-04
766	2,93E-04	4,37E-04	1,39E-04	2,27E-03	8,82E-04
767	2,85E-04	4,42E-04	1,34E-04	2,27E-03	8,82E-04
768	3,03E-04	3,99E-04	1,56E-04	2,31E-03	8,87E-04
769	2,98E-04	4,09E-04	1,74E-04	2,22E-03	8,62E-04
770	2,66E-04	4,47E-04	1,28E-04	2,27E-03	8,76E-04
771	2,90E-04	4,14E-04	1,99E-04	2,27E-03	8,78E-04
772	2,93E-04	3,64E-04	1,29E-04	2,31E-03	8,70E-04
773	2,84E-04	4,38E-04	1,64E-04	2,29E-03	8,88E-04
774	2,74E-04	4,22E-04	1,31E-04	2,33E-03	8,87E-04
775	2,64E-04	3,89E-04	1,23E-04	2,27E-03	8,56E-04
776	2,91E-04	3,82E-04	1,84E-04	2,27E-03	8,68E-04
777	2,71E-04	4,24E-04	1,20E-04	2,24E-03	8,61E-04
778	2,83E-04	4,16E-04	1,12E-04	2,35E-03	8,93E-04
779	2,88E-04	3,89E-04	1,07E-04	2,34E-03	8,83E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	6,99E-05	1,12E-04	2,93E-05	6,28E-04	2,57E-04
781	6,83E-05	9,55E-05	4,37E-05	6,36E-04	2,55E-04
782	7,91E-05	9,38E-05	3,98E-05	5,61E-04	2,51E-04
783	7,38E-05	1,03E-04	2,53E-05	6,60E-04	2,55E-04
784	6,44E-05	9,97E-05	2,62E-05	6,99E-04	2,62E-04
785	7,53E-05	8,77E-05	3,65E-05	6,06E-04	2,55E-04
786	6,69E-05	6,91E-05	4,43E-05	6,50E-04	2,52E-04
787	6,41E-05	9,25E-05	4,25E-05	6,06E-04	2,63E-04
788	6,77E-05	8,80E-05	3,81E-05	6,02E-04	2,60E-04
789	7,44E-05	7,81E-05	4,13E-05	6,42E-04	2,54E-04
790	7,42E-05	8,19E-05	3,84E-05	5,91E-04	2,51E-04
791	6,66E-05	8,42E-05	4,50E-05	6,62E-04	2,59E-04
792	6,32E-05	9,54E-05	4,09E-05	6,58E-04	2,51E-04
793	7,22E-05	1,02E-04	3,57E-05	5,77E-04	2,57E-04
794	6,97E-05	8,18E-05	3,29E-05	5,95E-04	2,56E-04
795	7,46E-05	1,03E-04	3,81E-05	6,68E-04	2,50E-04
796	6,77E-05	9,34E-05	3,79E-05	6,53E-04	2,58E-04
797	6,51E-05	9,00E-05	3,47E-05	6,43E-04	2,54E-04
798	8,18E-05	7,09E-05	3,97E-05	6,90E-04	2,49E-04
799	7,01E-05	1,01E-04	2,89E-05	6,41E-04	2,61E-04
800	6,82E-05	9,36E-05	3,06E-05	6,33E-04	2,51E-04
801	8,10E-05	1,05E-04	3,21E-05	7,05E-04	2,57E-04
802	6,59E-05	1,01E-04	3,12E-05	6,96E-04	2,65E-04
803	7,46E-05	9,79E-05	3,73E-05	6,79E-04	2,56E-04
804	6,47E-05	1,06E-04	3,62E-05	6,69E-04	2,52E-04
805	6,30E-05	9,35E-05	3,50E-05	7,81E-04	2,55E-04
806	6,27E-05	7,98E-05	3,44E-05	6,37E-04	2,53E-04
807	7,17E-05	7,55E-05	2,52E-05	6,78E-04	2,50E-04
808	6,65E-05	9,92E-05	5,06E-05	6,25E-04	2,57E-04
809	7,88E-05	8,19E-05	4,50E-05	6,00E-04	2,50E-04
810	7,14E-05	9,26E-05	4,05E-05	6,08E-04	2,51E-04
811	7,71E-05	8,68E-05	4,34E-05	6,42E-04	2,55E-04
812	6,70E-05	1,18E-04	4,85E-05	6,27E-04	2,61E-04
813	7,62E-05	8,12E-05	2,65E-05	6,39E-04	2,51E-04
814	6,40E-05	8,40E-05	3,26E-05	7,17E-04	2,62E-04
815	6,87E-05	8,54E-05	3,88E-05	6,13E-04	2,53E-04
816	7,03E-05	8,33E-05	4,41E-05	6,56E-04	2,53E-04
817	6,49E-05	9,58E-05	3,56E-05	6,33E-04	2,53E-04
818	7,60E-05	7,29E-05	2,32E-05	6,89E-04	2,56E-04
819	6,24E-05	7,84E-05	3,47E-05	6,92E-04	2,60E-04
820	6,94E-05	8,91E-05	3,22E-05	6,62E-04	2,56E-04
821	6,67E-05	8,32E-05	4,06E-05	6,63E-04	2,45E-04
822	6,80E-05	8,21E-05	3,91E-05	6,66E-04	2,61E-04
823	6,40E-05	1,04E-04	3,08E-05	6,42E-04	2,58E-04
824	6,97E-05	1,12E-04	3,38E-05	6,71E-04	2,59E-04
825	7,81E-05	1,13E-04	3,97E-05	6,71E-04	2,57E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	1,83E-05	1,76E-05	1,63E-05	2,02E-04	1,87E-05
781	2,09E-05	1,30E-05	1,71E-05	9,40E-05	1,75E-05
782	2,13E-05	1,91E-05	2,15E-05	6,96E-05	2,06E-05
783	1,87E-05	1,99E-05	1,67E-05	5,92E-05	1,93E-05
784	1,69E-05	2,30E-05	1,60E-05	1,01E-04	1,99E-05
785	1,82E-05	1,64E-05	2,08E-05	7,04E-05	1,79E-05
786	1,90E-05	1,93E-05	1,69E-05	9,45E-05	1,94E-05
787	2,15E-05	1,62E-05	2,09E-05	1,75E-04	1,99E-05
788	1,83E-05	2,08E-05	1,63E-05	1,05E-04	1,97E-05
789	1,66E-05	2,09E-05	1,75E-05	1,49E-04	1,92E-05
790	2,15E-05	1,61E-05	1,94E-05	2,55E-05	1,90E-05
791	1,90E-05	2,62E-05	1,68E-05	4,62E-05	2,21E-05
792	2,23E-05	1,33E-05	2,06E-05	3,85E-05	1,83E-05
793	2,11E-05	2,56E-05	1,55E-05	1,11E-04	2,31E-05
794	1,97E-05	2,07E-05	1,62E-05	6,38E-05	2,01E-05
795	1,75E-05	2,78E-05	2,27E-05	4,81E-05	2,26E-05
796	1,93E-05	1,84E-05	1,69E-05	4,14E-05	1,88E-05
797	1,86E-05	2,11E-05	2,09E-05	6,32E-05	2,01E-05
798	1,93E-05	1,57E-05	1,95E-05	3,41E-05	1,78E-05
799	2,27E-05	1,74E-05	1,72E-05	6,87E-05	2,02E-05
800	1,96E-05	1,78E-05	2,03E-05	4,03E-05	1,90E-05
801	2,06E-05	1,40E-05	1,66E-05	9,71E-05	1,77E-05
802	1,71E-05	1,57E-05	1,59E-05	8,18E-05	1,67E-05
803	1,80E-05	1,92E-05	1,88E-05	7,67E-05	1,89E-05
804	2,12E-05	1,21E-05	1,72E-05	8,19E-05	1,72E-05
805	2,03E-05	1,48E-05	1,63E-05	3,09E-05	1,76E-05
806	1,91E-05	1,52E-05	1,61E-05	9,06E-05	1,75E-05
807	1,72E-05	2,12E-05	1,62E-05	2,30E-04	1,99E-05
808	2,06E-05	1,97E-05	1,64E-05	1,58E-04	2,05E-05
809	2,25E-05	1,62E-05	1,77E-05	4,90E-05	1,95E-05
810	1,99E-05	1,73E-05	1,81E-05	5,71E-05	1,88E-05
811	1,90E-05	1,66E-05	1,85E-05	8,40E-05	1,82E-05
812	2,13E-05	1,26E-05	1,76E-05	1,21E-04	1,77E-05
813	2,36E-05	1,94E-05	1,63E-05	2,43E-05	2,12E-05
814	1,74E-05	2,20E-05	1,64E-05	7,52E-05	1,96E-05
815	1,85E-05	1,69E-05	1,68E-05	2,86E-04	1,90E-05
816	1,51E-05	1,82E-05	1,76E-05	4,83E-05	1,68E-05
817	1,96E-05	1,91E-05	2,09E-05	6,50E-05	1,97E-05
818	2,07E-05	2,07E-05	1,99E-05	6,45E-05	2,09E-05
819	1,85E-05	2,05E-05	1,64E-05	6,79E-05	1,95E-05
820	2,10E-05	1,27E-05	1,87E-05	1,87E-05	1,72E-05
821	1,90E-05	1,98E-05	1,77E-05	5,44E-05	1,94E-05
822	1,72E-05	1,50E-05	1,65E-05	9,96E-05	1,66E-05
823	2,01E-05	1,47E-05	1,82E-05	2,81E-05	1,76E-05
824	1,73E-05	1,67E-05	1,98E-05	9,05E-05	1,76E-05
825	2,06E-05	1,57E-05	1,58E-05	1,72E-04	1,88E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
780	2,64E-04	4,38E-04	1,52E-04	2,30E-03	8,81E-04
781	2,72E-04	4,29E-04	1,56E-04	2,27E-03	8,75E-04
782	2,63E-04	3,65E-04	9,84E-05	2,30E-03	8,55E-04
783	3,06E-04	4,22E-04	1,39E-04	2,23E-03	8,70E-04
784	2,71E-04	4,25E-04	1,36E-04	2,35E-03	8,95E-04
785	2,80E-04	4,43E-04	1,55E-04	2,25E-03	8,74E-04
786	2,84E-04	4,17E-04	1,48E-04	2,22E-03	8,59E-04
787	3,17E-04	4,53E-04	1,26E-04	2,28E-03	8,97E-04
788	2,86E-04	4,38E-04	1,35E-04	2,29E-03	8,87E-04
789	2,90E-04	3,85E-04	1,49E-04	2,28E-03	8,69E-04
790	2,79E-04	3,83E-04	1,35E-04	2,26E-03	8,59E-04
791	2,71E-04	4,30E-04	1,22E-04	2,29E-03	8,76E-04
792	3,06E-04	3,92E-04	1,27E-04	2,23E-03	8,61E-04
793	2,86E-04	4,11E-04	1,23E-04	2,26E-03	8,67E-04
794	2,73E-04	4,28E-04	1,54E-04	2,27E-03	8,73E-04
795	2,61E-04	4,08E-04	1,21E-04	2,21E-03	8,43E-04
796	2,75E-04	4,36E-04	1,99E-04	2,29E-03	8,85E-04
797	2,60E-04	4,27E-04	1,70E-04	2,26E-03	8,67E-04
798	2,85E-04	3,83E-04	1,54E-04	2,24E-03	8,55E-04
799	2,64E-04	4,51E-04	1,55E-04	2,31E-03	8,91E-04
800	2,65E-04	3,81E-04	1,62E-04	2,27E-03	8,57E-04
801	2,81E-04	4,61E-04	1,49E-04	2,26E-03	8,84E-04
802	2,95E-04	4,47E-04	2,21E-04	2,35E-03	9,14E-04
803	2,87E-04	4,36E-04	1,84E-04	2,24E-03	8,76E-04
804	2,75E-04	4,18E-04	1,82E-04	2,25E-03	8,67E-04
805	2,81E-04	4,39E-04	2,00E-04	2,25E-03	8,77E-04
806	2,98E-04	4,06E-04	1,55E-04	2,24E-03	8,67E-04
807	2,71E-04	4,35E-04	1,08E-04	2,20E-03	8,53E-04
808	2,91E-04	4,31E-04	9,48E-05	2,26E-03	8,75E-04
809	2,80E-04	4,23E-04	1,76E-04	2,19E-03	8,54E-04
810	2,73E-04	4,12E-04	1,14E-04	2,24E-03	8,58E-04
811	2,76E-04	4,22E-04	8,71E-05	2,29E-03	8,75E-04
812	2,89E-04	4,73E-04	1,08E-04	2,29E-03	8,97E-04
813	2,69E-04	4,27E-04	1,11E-04	2,21E-03	8,53E-04
814	2,65E-04	4,54E-04	1,64E-04	2,32E-03	8,95E-04
815	2,82E-04	4,01E-04	1,25E-04	2,27E-03	8,66E-04
816	2,92E-04	4,04E-04	1,17E-04	2,26E-03	8,69E-04
817	2,83E-04	3,79E-04	1,28E-04	2,28E-03	8,64E-04
818	2,78E-04	4,61E-04	1,50E-04	2,22E-03	8,72E-04
819	2,77E-04	4,44E-04	1,50E-04	2,30E-03	8,90E-04
820	2,71E-04	4,00E-04	1,38E-04	2,33E-03	8,80E-04
821	2,71E-04	3,93E-04	1,28E-04	2,18E-03	8,35E-04
822	2,86E-04	4,26E-04	1,14E-04	2,36E-03	9,02E-04
823	2,63E-04	4,18E-04	1,61E-04	2,33E-03	8,85E-04
824	2,66E-04	4,24E-04	1,36E-04	2,34E-03	8,90E-04
825	2,82E-04	4,09E-04	1,34E-04	2,30E-03	8,79E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	6,18E-05	1,12E-04	5,49E-05	5,64E-04	2,52E-04
827	6,56E-05	9,80E-05	5,04E-05	6,50E-04	2,57E-04
828	6,72E-05	9,31E-05	4,43E-05	7,21E-04	2,51E-04
829	7,49E-05	8,95E-05	3,07E-05	5,62E-04	2,59E-04
830	7,56E-05	6,77E-05	4,80E-05	7,36E-04	2,59E-04
831	7,86E-05	7,36E-05	2,55E-05	6,58E-04	2,58E-04
832	8,17E-05	7,80E-05	3,81E-05	6,22E-04	2,54E-04
833	7,84E-05	8,52E-05	2,75E-05	6,28E-04	2,65E-04
834	7,52E-05	7,73E-05	3,19E-05	6,16E-04	2,60E-04
835	7,38E-05	8,31E-05	3,50E-05	5,98E-04	2,52E-04
836	7,95E-05	9,03E-05	3,34E-05	6,55E-04	2,59E-04
837	6,64E-05	1,02E-04	3,28E-05	6,35E-04	2,53E-04
838	8,01E-05	9,13E-05	3,56E-05	6,33E-04	2,54E-04
839	6,55E-05	1,09E-04	2,67E-05	6,21E-04	2,47E-04
840	7,15E-05	9,62E-05	3,56E-05	6,50E-04	2,49E-04
841	7,66E-05	9,45E-05	4,50E-05	6,96E-04	2,54E-04
842	6,66E-05	9,06E-05	3,08E-05	6,25E-04	2,58E-04
843	7,27E-05	8,72E-05	4,24E-05	6,78E-04	2,58E-04
844	7,01E-05	9,63E-05	2,76E-05	6,24E-04	2,61E-04
845	7,00E-05	9,26E-05	3,66E-05	6,05E-04	2,57E-04
846	6,49E-05	9,84E-05	3,20E-05	6,90E-04	2,57E-04
847	7,28E-05	1,05E-04	3,05E-05	6,71E-04	2,59E-04
848	6,23E-05	1,04E-04	3,87E-05	7,00E-04	2,61E-04
849	7,39E-05	9,48E-05	3,52E-05	6,20E-04	2,61E-04
850	7,09E-05	9,44E-05	3,08E-05	6,08E-04	2,58E-04
851	6,04E-05	8,47E-05	3,31E-05	6,48E-04	2,52E-04
852	6,51E-05	8,49E-05	3,87E-05	6,73E-04	2,54E-04
853	6,98E-05	7,05E-05	4,34E-05	6,88E-04	2,60E-04
854	6,40E-05	9,79E-05	4,26E-05	6,28E-04	2,58E-04
855	6,79E-05	9,75E-05	4,51E-05	6,28E-04	2,51E-04
856	6,30E-05	1,13E-04	4,17E-05	6,63E-04	2,55E-04
857	7,34E-05	1,06E-04	3,42E-05	6,22E-04	2,62E-04
858	6,75E-05	8,62E-05	3,73E-05	6,36E-04	2,62E-04
859	6,60E-05	1,11E-04	3,82E-05	6,34E-04	2,50E-04
860	6,28E-05	8,71E-05	4,17E-05	6,66E-04	2,58E-04
861	7,79E-05	1,10E-04	3,66E-05	6,28E-04	2,57E-04
862	7,13E-05	1,16E-04	2,94E-05	7,36E-04	2,59E-04
863	7,11E-05	8,32E-05	3,21E-05	6,49E-04	2,59E-04
864	6,82E-05	7,67E-05	4,20E-05	7,26E-04	2,52E-04
865	7,29E-05	8,70E-05	3,33E-05	6,47E-04	2,65E-04
866	6,64E-05	1,15E-04	2,69E-05	6,66E-04	2,49E-04
867	6,07E-05	9,99E-05	3,06E-05	6,53E-04	2,52E-04
868	6,48E-05	1,18E-04	2,87E-05	7,13E-04	2,54E-04
869	7,16E-05	8,08E-05	3,82E-05	6,13E-04	2,51E-04
870	6,45E-05	6,07E-05	2,94E-05	6,11E-04	2,56E-04
871	6,44E-05	7,32E-05	3,33E-05	6,46E-04	2,58E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	1,88E-05	1,34E-05	1,67E-05	8,53E-05	1,66E-05
827	1,78E-05	1,94E-05	1,65E-05	1,06E-04	1,88E-05
828	1,72E-05	1,19E-05	1,73E-05	8,04E-05	1,51E-05
829	2,18E-05	2,08E-05	1,98E-05	2,67E-05	2,12E-05
830	2,08E-05	1,94E-05	2,18E-05	1,14E-04	2,07E-05
831	1,99E-05	2,25E-05	2,03E-05	4,92E-05	2,12E-05
832	2,15E-05	1,95E-05	1,70E-05	2,29E-05	2,03E-05
833	1,98E-05	1,85E-05	1,81E-05	1,32E-04	1,96E-05
834	1,83E-05	2,16E-05	1,92E-05	6,22E-05	2,00E-05
835	1,96E-05	2,31E-05	1,80E-05	1,09E-04	2,14E-05
836	2,29E-05	1,98E-05	1,97E-05	4,81E-05	2,14E-05
837	2,08E-05	2,59E-05	1,88E-05	1,30E-04	2,34E-05
838	1,84E-05	1,94E-05	2,09E-05	1,09E-04	1,95E-05
839	1,80E-05	1,60E-05	1,72E-05	1,78E-05	1,71E-05
840	1,98E-05	2,10E-05	1,97E-05	1,68E-04	2,10E-05
841	2,11E-05	1,30E-05	1,76E-05	6,12E-05	1,75E-05
842	2,16E-05	1,43E-05	2,12E-05	1,11E-04	1,88E-05
843	2,26E-05	1,87E-05	1,68E-05	1,43E-04	2,10E-05
844	1,93E-05	1,49E-05	1,72E-05	2,15E-05	1,72E-05
845	2,02E-05	2,74E-05	1,70E-05	5,25E-05	2,33E-05
846	2,20E-05	1,74E-05	1,59E-05	1,59E-04	2,02E-05
847	1,98E-05	1,82E-05	1,63E-05	1,03E-04	1,92E-05
848	1,72E-05	1,77E-05	1,62E-05	1,16E-04	1,78E-05
849	2,08E-05	2,31E-05	1,98E-05	1,28E-04	2,22E-05
850	1,83E-05	1,50E-05	1,65E-05	3,89E-05	1,68E-05
851	1,88E-05	1,61E-05	1,90E-05	9,77E-05	1,80E-05
852	2,15E-05	1,29E-05	1,62E-05	8,43E-05	1,76E-05
853	1,73E-05	1,96E-05	1,69E-05	5,31E-05	1,84E-05
854	1,99E-05	1,65E-05	2,07E-05	1,61E-05	1,84E-05
855	1,84E-05	2,38E-05	1,71E-05	1,60E-04	2,13E-05
856	1,89E-05	1,86E-05	1,62E-05	4,48E-05	1,87E-05
857	1,70E-05	2,05E-05	1,74E-05	6,56E-05	1,88E-05
858	1,68E-05	2,19E-05	2,16E-05	5,53E-05	1,96E-05
859	1,81E-05	1,92E-05	1,63E-05	9,70E-05	1,88E-05
860	2,40E-05	2,36E-05	1,72E-05	8,77E-05	2,36E-05
861	1,72E-05	2,05E-05	1,80E-05	8,59E-05	1,90E-05
862	1,67E-05	2,20E-05	1,64E-05	8,39E-05	1,93E-05
863	2,16E-05	1,73E-05	1,61E-05	5,73E-05	1,95E-05
864	2,01E-05	1,88E-05	1,74E-05	1,76E-04	2,01E-05
865	2,31E-05	1,69E-05	2,16E-05	3,12E-05	2,03E-05
866	2,11E-05	1,73E-05	1,80E-05	7,31E-05	1,95E-05
867	2,09E-05	1,38E-05	1,64E-05	1,03E-04	1,78E-05
868	2,08E-05	2,56E-05	1,89E-05	1,02E-04	2,31E-05
869	2,24E-05	2,11E-05	1,77E-05	1,34E-04	2,20E-05
870	2,14E-05	1,78E-05	2,06E-05	8,18E-05	2,01E-05
871	1,87E-05	1,84E-05	1,79E-05	6,88E-05	1,87E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
826	2,86E-04	4,16E-04	9,18E-05	2,26E-03	8,67E-04
827	2,91E-04	4,25E-04	1,49E-04	2,28E-03	8,81E-04
828	2,76E-04	4,38E-04	1,13E-04	2,24E-03	8,67E-04
829	2,84E-04	4,37E-04	1,31E-04	2,28E-03	8,81E-04
830	2,98E-04	4,39E-04	1,33E-04	2,27E-03	8,83E-04
831	2,74E-04	4,36E-04	1,28E-04	2,28E-03	8,77E-04
832	2,70E-04	4,58E-04	1,02E-04	2,22E-03	8,65E-04
833	2,59E-04	4,55E-04	1,51E-04	2,38E-03	9,08E-04
834	3,06E-04	4,34E-04	1,04E-04	2,29E-03	8,89E-04
835	2,64E-04	3,83E-04	1,58E-04	2,26E-03	8,55E-04
836	2,97E-04	4,28E-04	1,21E-04	2,27E-03	8,80E-04
837	2,54E-04	4,15E-04	1,04E-04	2,25E-03	8,55E-04
838	2,78E-04	4,02E-04	1,43E-04	2,27E-03	8,66E-04
839	2,81E-04	3,57E-04	1,01E-04	2,26E-03	8,48E-04
840	2,84E-04	4,11E-04	8,42E-05	2,19E-03	8,46E-04
841	2,85E-04	4,26E-04	1,59E-04	2,25E-03	8,72E-04
842	2,81E-04	3,86E-04	1,95E-04	2,33E-03	8,82E-04
843	2,51E-04	4,07E-04	1,66E-04	2,33E-03	8,76E-04
844	2,97E-04	4,68E-04	1,23E-04	2,29E-03	8,99E-04
845	2,79E-04	4,22E-04	1,08E-04	2,26E-03	8,68E-04
846	2,84E-04	3,99E-04	1,16E-04	2,30E-03	8,75E-04
847	2,83E-04	4,30E-04	1,58E-04	2,30E-03	8,85E-04
848	2,93E-04	4,56E-04	1,20E-04	2,30E-03	8,96E-04
849	2,91E-04	4,12E-04	1,91E-04	2,29E-03	8,84E-04
850	2,94E-04	4,24E-04	1,32E-04	2,31E-03	8,89E-04
851	2,81E-04	3,99E-04	1,57E-04	2,25E-03	8,62E-04
852	2,82E-04	3,75E-04	1,51E-04	2,31E-03	8,71E-04
853	2,69E-04	4,28E-04	1,25E-04	2,34E-03	8,91E-04
854	2,78E-04	4,49E-04	8,10E-05	2,29E-03	8,84E-04
855	2,90E-04	4,03E-04	1,51E-04	2,20E-03	8,51E-04
856	2,88E-04	4,04E-04	9,94E-05	2,29E-03	8,72E-04
857	2,98E-04	4,56E-04	1,41E-04	2,29E-03	8,97E-04
858	2,84E-04	4,42E-04	1,42E-04	2,32E-03	8,94E-04
859	2,69E-04	4,20E-04	1,15E-04	2,23E-03	8,55E-04
860	3,06E-04	3,66E-04	1,47E-04	2,29E-03	8,71E-04
861	3,09E-04	4,08E-04	1,03E-04	2,27E-03	8,78E-04
862	2,83E-04	4,35E-04	1,24E-04	2,30E-03	8,86E-04
863	2,74E-04	4,47E-04	1,34E-04	2,29E-03	8,86E-04
864	2,56E-04	3,82E-04	1,27E-04	2,30E-03	8,60E-04
865	3,03E-04	4,40E-04	1,36E-04	2,34E-03	9,05E-04
866	2,63E-04	4,07E-04	1,50E-04	2,22E-03	8,48E-04
867	2,82E-04	4,05E-04	1,19E-04	2,26E-03	8,65E-04
868	2,86E-04	3,99E-04	1,58E-04	2,23E-03	8,58E-04
869	2,85E-04	3,92E-04	9,68E-05	2,22E-03	8,49E-04
870	2,54E-04	4,33E-04	1,00E-04	2,30E-03	8,74E-04
871	2,91E-04	4,24E-04	1,44E-04	2,29E-03	8,83E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	6,80E-05	8,80E-05	4,21E-05	6,32E-04	2,56E-04
873	6,75E-05	8,42E-05	4,54E-05	5,81E-04	2,59E-04
874	6,65E-05	9,43E-05	5,73E-05	6,51E-04	2,58E-04
875	6,54E-05	1,09E-04	4,32E-05	6,22E-04	2,53E-04
876	7,33E-05	1,03E-04	2,90E-05	6,76E-04	2,65E-04
877	6,18E-05	1,17E-04	3,10E-05	6,64E-04	2,53E-04
878	7,05E-05	1,02E-04	3,42E-05	7,32E-04	2,51E-04
879	6,39E-05	1,10E-04	2,93E-05	6,86E-04	2,52E-04
880	6,38E-05	9,94E-05	4,16E-05	6,15E-04	2,58E-04
881	8,16E-05	1,19E-04	3,46E-05	6,45E-04	2,61E-04
882	6,81E-05	1,14E-04	3,06E-05	6,05E-04	2,48E-04
883	6,72E-05	8,74E-05	4,17E-05	7,16E-04	2,55E-04
884	7,07E-05	8,33E-05	3,90E-05	6,99E-04	2,53E-04
885	7,01E-05	7,05E-05	3,03E-05	6,74E-04	2,47E-04
886	6,86E-05	1,14E-04	4,20E-05	6,14E-04	2,54E-04
887	7,07E-05	9,36E-05	4,92E-05	6,92E-04	2,51E-04
888	6,86E-05	8,98E-05	3,50E-05	5,78E-04	2,60E-04
889	7,41E-05	1,04E-04	4,07E-05	6,52E-04	2,55E-04
890	7,26E-05	1,17E-04	2,94E-05	6,41E-04	2,49E-04
891	6,23E-05	1,02E-04	4,21E-05	6,74E-04	2,51E-04
892	7,02E-05	9,61E-05	2,59E-05	6,46E-04	2,56E-04
893	6,95E-05	1,09E-04	3,49E-05	5,97E-04	2,57E-04
894	7,36E-05	1,01E-04	3,21E-05	6,55E-04	2,56E-04
895	7,65E-05	7,24E-05	3,12E-05	7,19E-04	2,60E-04
896	7,03E-05	7,43E-05	2,98E-05	6,55E-04	2,52E-04
897	7,10E-05	1,02E-04	2,75E-05	6,65E-04	2,54E-04
898	7,51E-05	8,86E-05	3,34E-05	6,09E-04	2,54E-04
899	7,54E-05	7,47E-05	3,37E-05	6,47E-04	2,55E-04
900	7,07E-05	9,16E-05	4,57E-05	6,36E-04	2,49E-04
901	8,15E-05	7,60E-05	3,79E-05	6,80E-04	2,51E-04
902	6,29E-05	8,98E-05	3,59E-05	6,90E-04	2,58E-04
903	5,87E-05	8,03E-05	3,05E-05	6,67E-04	2,49E-04
904	5,59E-05	1,29E-04	3,19E-05	6,14E-04	2,56E-04
905	7,61E-05	8,46E-05	3,65E-05	6,75E-04	2,57E-04
906	6,80E-05	9,14E-05	4,43E-05	7,19E-04	2,56E-04
907	7,12E-05	7,78E-05	4,34E-05	6,74E-04	2,63E-04
908	7,47E-05	1,05E-04	3,32E-05	6,79E-04	2,50E-04
909	6,97E-05	1,09E-04	3,20E-05	6,10E-04	2,57E-04
910	6,23E-05	8,92E-05	3,27E-05	6,48E-04	2,49E-04
911	7,70E-05	9,60E-05	4,35E-05	5,68E-04	2,55E-04
912	6,78E-05	1,02E-04	2,48E-05	6,51E-04	2,59E-04
913	7,08E-05	1,15E-04	5,35E-05	6,63E-04	2,53E-04
914	7,93E-05	1,00E-04	3,75E-05	6,42E-04	2,48E-04
915	6,92E-05	9,37E-05	4,06E-05	6,07E-04	2,57E-04
916	6,83E-05	5,82E-05	3,15E-05	6,81E-04	2,52E-04
917	8,59E-05	8,93E-05	2,99E-05	6,36E-04	2,60E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	2,17E-05	2,07E-05	1,63E-05	6,16E-05	2,10E-05
873	1,90E-05	2,89E-05	1,69E-05	8,81E-05	2,36E-05
874	1,95E-05	1,71E-05	2,12E-05	8,74E-05	1,89E-05
875	2,24E-05	2,02E-05	1,72E-05	8,25E-05	2,13E-05
876	1,92E-05	1,80E-05	1,80E-05	2,11E-05	1,86E-05
877	2,04E-05	1,64E-05	2,01E-05	7,77E-05	1,89E-05
878	1,81E-05	2,11E-05	1,79E-05	6,03E-05	1,96E-05
879	1,89E-05	1,54E-05	1,70E-05	5,83E-05	1,74E-05
880	1,93E-05	2,47E-05	1,68E-05	1,41E-04	2,21E-05
881	1,92E-05	2,18E-05	2,02E-05	5,99E-05	2,06E-05
882	1,67E-05	1,23E-05	1,55E-05	1,63E-04	1,54E-05
883	1,79E-05	1,65E-05	1,62E-05	1,39E-04	1,77E-05
884	2,03E-05	1,97E-05	1,64E-05	6,29E-05	1,99E-05
885	2,01E-05	2,07E-05	2,24E-05	5,86E-05	2,07E-05
886	1,61E-05	1,38E-05	1,90E-05	5,48E-05	1,55E-05
887	1,73E-05	1,63E-05	1,79E-05	2,22E-05	1,69E-05
888	1,88E-05	2,15E-05	1,68E-05	2,33E-05	1,98E-05
889	1,81E-05	1,60E-05	1,67E-05	4,57E-05	1,72E-05
890	2,10E-05	1,83E-05	1,61E-05	2,99E-05	1,95E-05
891	1,96E-05	1,39E-05	1,84E-05	3,09E-05	1,71E-05
892	1,93E-05	2,00E-05	2,22E-05	7,15E-05	2,01E-05
893	1,91E-05	1,83E-05	1,82E-05	6,20E-05	1,89E-05
894	2,12E-05	1,38E-05	1,61E-05	5,41E-05	1,77E-05
895	1,82E-05	1,59E-05	1,77E-05	1,02E-04	1,76E-05
896	1,78E-05	1,93E-05	1,72E-05	9,09E-05	1,87E-05
897	2,14E-05	2,10E-05	1,56E-05	4,09E-05	2,09E-05
898	1,89E-05	1,79E-05	2,47E-05	1,54E-04	1,95E-05
899	2,12E-05	1,47E-05	1,66E-05	3,54E-05	1,80E-05
900	2,01E-05	1,49E-05	1,81E-05	4,43E-05	1,78E-05
901	1,85E-05	1,72E-05	1,81E-05	1,07E-04	1,83E-05
902	2,06E-05	1,66E-05	1,70E-05	1,33E-04	1,91E-05
903	1,92E-05	1,51E-05	1,62E-05	2,81E-05	1,72E-05
904	2,61E-05	1,50E-05	1,63E-05	4,53E-05	2,06E-05
905	1,76E-05	2,13E-05	2,46E-05	1,40E-04	2,04E-05
906	2,74E-05	1,70E-05	1,61E-05	7,58E-05	2,22E-05
907	2,18E-05	2,72E-05	1,74E-05	6,08E-05	2,40E-05
908	2,16E-05	1,64E-05	1,76E-05	5,27E-05	1,92E-05
909	1,82E-05	1,52E-05	1,67E-05	4,68E-05	1,69E-05
910	1,77E-05	1,89E-05	1,77E-05	4,39E-05	1,84E-05
911	1,93E-05	2,51E-05	1,66E-05	5,13E-05	2,18E-05
912	2,42E-05	2,27E-05	1,63E-05	1,39E-04	2,35E-05
913	1,80E-05	1,66E-05	1,81E-05	9,46E-05	1,78E-05
914	1,84E-05	1,65E-05	1,85E-05	6,49E-05	1,78E-05
915	1,96E-05	2,65E-05	2,10E-05	4,65E-05	2,29E-05
916	2,14E-05	1,43E-05	1,66E-05	1,81E-04	1,87E-05
917	2,04E-05	1,67E-05	1,61E-05	1,37E-04	1,90E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
872	2,92E-04	3,81E-04	1,52E-04	2,28E-03	8,69E-04
873	2,57E-04	4,98E-04	1,30E-04	2,22E-03	8,76E-04
874	2,59E-04	4,41E-04	1,26E-04	2,32E-03	8,85E-04
875	2,67E-04	4,25E-04	1,32E-04	2,24E-03	8,60E-04
876	2,99E-04	4,30E-04	2,06E-04	2,35E-03	9,10E-04
877	2,54E-04	4,28E-04	1,51E-04	2,26E-03	8,65E-04
878	2,93E-04	3,95E-04	1,19E-04	2,23E-03	8,57E-04
879	2,79E-04	3,81E-04	1,61E-04	2,29E-03	8,66E-04
880	2,75E-04	4,28E-04	1,50E-04	2,27E-03	8,74E-04
881	2,89E-04	4,48E-04	1,30E-04	2,29E-03	8,89E-04
882	2,51E-04	4,37E-04	1,11E-04	2,23E-03	8,56E-04
883	2,97E-04	4,57E-04	1,19E-04	2,23E-03	8,76E-04
884	2,95E-04	3,53E-04	1,37E-04	2,29E-03	8,62E-04
885	3,19E-04	3,47E-04	1,59E-04	2,18E-03	8,38E-04
886	2,99E-04	4,32E-04	1,18E-04	2,25E-03	8,77E-04
887	2,86E-04	4,11E-04	1,09E-04	2,24E-03	8,61E-04
888	2,93E-04	4,41E-04	1,56E-04	2,29E-03	8,89E-04
889	2,97E-04	3,88E-04	1,78E-04	2,29E-03	8,77E-04
890	2,82E-04	3,83E-04	1,68E-04	2,22E-03	8,49E-04
891	2,69E-04	4,10E-04	1,89E-04	2,24E-03	8,62E-04
892	2,92E-04	3,85E-04	1,09E-04	2,30E-03	8,72E-04
893	2,75E-04	4,11E-04	1,03E-04	2,32E-03	8,80E-04
894	2,67E-04	4,45E-04	1,10E-04	2,28E-03	8,78E-04
895	3,01E-04	4,01E-04	1,39E-04	2,34E-03	8,94E-04
896	2,75E-04	3,84E-04	1,15E-04	2,28E-03	8,62E-04
897	2,93E-04	4,28E-04	1,23E-04	2,22E-03	8,65E-04
898	2,91E-04	4,33E-04	1,33E-04	2,22E-03	8,66E-04
899	2,90E-04	4,03E-04	1,08E-04	2,29E-03	8,74E-04
900	2,75E-04	3,89E-04	1,17E-04	2,24E-03	8,53E-04
901	2,90E-04	3,93E-04	1,22E-04	2,24E-03	8,59E-04
902	2,78E-04	4,59E-04	1,48E-04	2,25E-03	8,81E-04
903	2,77E-04	4,11E-04	1,43E-04	2,22E-03	8,56E-04
904	2,93E-04	4,12E-04	1,07E-04	2,27E-03	8,71E-04
905	2,91E-04	4,34E-04	9,02E-05	2,27E-03	8,77E-04
906	2,78E-04	4,33E-04	1,62E-04	2,23E-03	8,67E-04
907	3,08E-04	4,16E-04	1,55E-04	2,29E-03	8,88E-04
908	2,89E-04	3,77E-04	1,04E-04	2,25E-03	8,54E-04
909	2,93E-04	4,32E-04	1,05E-04	2,28E-03	8,83E-04
910	2,72E-04	3,82E-04	1,45E-04	2,24E-03	8,51E-04
911	2,70E-04	4,34E-04	1,54E-04	2,24E-03	8,66E-04
912	2,89E-04	4,39E-04	1,15E-04	2,24E-03	8,73E-04
913	2,95E-04	3,81E-04	1,23E-04	2,28E-03	8,66E-04
914	2,72E-04	4,39E-04	1,57E-04	2,18E-03	8,51E-04
915	2,87E-04	4,19E-04	1,14E-04	2,26E-03	8,70E-04
916	2,55E-04	4,34E-04	1,36E-04	2,25E-03	8,63E-04
917	2,81E-04	4,28E-04	1,76E-04	2,31E-03	8,91E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	7,02E-05	7,22E-05	3,67E-05	6,95E-04	2,53E-04
919	7,37E-05	7,22E-05	3,24E-05	7,03E-04	2,52E-04
920	7,33E-05	1,14E-04	3,61E-05	6,14E-04	2,55E-04
921	6,62E-05	7,73E-05	2,84E-05	6,81E-04	2,50E-04
922	6,48E-05	7,56E-05	4,15E-05	6,54E-04	2,57E-04
923	5,75E-05	9,25E-05	2,40E-05	6,88E-04	2,56E-04
924	7,54E-05	1,01E-04	2,85E-05	6,86E-04	2,64E-04
925	7,41E-05	9,16E-05	3,03E-05	7,01E-04	2,60E-04
926	7,29E-05	8,29E-05	4,87E-05	6,85E-04	2,52E-04
927	7,23E-05	6,73E-05	3,73E-05	5,38E-04	2,52E-04
928	6,93E-05	8,24E-05	3,98E-05	7,12E-04	2,53E-04
929	6,00E-05	8,79E-05	4,16E-05	6,00E-04	2,57E-04
930	6,57E-05	1,01E-04	3,13E-05	7,09E-04	2,60E-04
931	6,74E-05	8,08E-05	5,14E-05	5,89E-04	2,53E-04
932	6,75E-05	1,11E-04	3,91E-05	6,35E-04	2,65E-04
933	7,11E-05	1,05E-04	3,08E-05	6,29E-04	2,62E-04
934	6,77E-05	8,95E-05	3,22E-05	5,55E-04	2,62E-04
935	6,52E-05	7,95E-05	3,73E-05	6,61E-04	2,64E-04
936	6,67E-05	1,04E-04	3,09E-05	7,14E-04	2,56E-04
937	7,14E-05	1,18E-04	3,52E-05	6,97E-04	2,50E-04
938	7,29E-05	6,87E-05	4,75E-05	7,05E-04	2,47E-04
939	5,79E-05	8,97E-05	3,39E-05	5,61E-04	2,58E-04
940	6,98E-05	9,04E-05	3,74E-05	6,84E-04	2,60E-04
941	6,39E-05	9,37E-05	4,62E-05	6,43E-04	2,56E-04
942	6,01E-05	6,98E-05	2,80E-05	6,18E-04	2,57E-04
943	6,31E-05	1,00E-04	3,50E-05	5,50E-04	2,58E-04
944	6,29E-05	8,70E-05	3,63E-05	6,84E-04	2,59E-04
945	7,63E-05	6,78E-05	3,76E-05	7,28E-04	2,61E-04
946	7,86E-05	9,19E-05	3,13E-05	6,63E-04	2,55E-04
947	6,80E-05	9,79E-05	3,76E-05	6,80E-04	2,44E-04
948	6,21E-05	1,11E-04	3,39E-05	5,72E-04	2,51E-04
949	5,70E-05	8,58E-05	2,60E-05	7,14E-04	2,59E-04
950	6,16E-05	7,03E-05	3,71E-05	6,17E-04	2,53E-04
951	7,04E-05	1,02E-04	2,82E-05	6,61E-04	2,53E-04
952	7,97E-05	7,88E-05	3,17E-05	6,81E-04	2,61E-04
953	6,96E-05	9,37E-05	3,27E-05	6,15E-04	2,51E-04
954	6,93E-05	9,76E-05	4,09E-05	7,31E-04	2,50E-04
955	6,42E-05	8,46E-05	3,89E-05	6,40E-04	2,62E-04
956	6,81E-05	1,04E-04	3,49E-05	6,79E-04	2,51E-04
957	6,83E-05	1,05E-04	4,41E-05	6,46E-04	2,59E-04
958	6,67E-05	9,32E-05	4,08E-05	6,38E-04	2,56E-04
959	7,07E-05	1,19E-04	3,56E-05	7,07E-04	2,56E-04
960	6,60E-05	8,61E-05	3,82E-05	6,53E-04	2,53E-04
961	6,31E-05	9,55E-05	3,24E-05	6,72E-04	2,53E-04
962	6,63E-05	9,71E-05	3,32E-05	6,43E-04	2,62E-04
963	7,49E-05	7,66E-05	3,66E-05	6,11E-04	2,55E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	1,78E-05	1,78E-05	1,54E-05	6,09E-05	1,78E-05
919	1,90E-05	1,33E-05	1,77E-05	4,11E-05	1,65E-05
920	2,05E-05	1,93E-05	2,15E-05	2,03E-04	2,09E-05
921	1,76E-05	2,02E-05	1,67E-05	7,55E-05	1,90E-05
922	1,88E-05	1,79E-05	1,74E-05	5,67E-05	1,85E-05
923	1,98E-05	3,29E-05	2,04E-05	1,19E-04	2,61E-05
924	2,00E-05	2,82E-05	2,10E-05	7,06E-05	2,39E-05
925	1,91E-05	1,65E-05	1,63E-05	1,17E-04	1,82E-05
926	1,72E-05	1,74E-05	2,02E-05	4,74E-05	1,77E-05
927	1,78E-05	1,73E-05	1,59E-05	2,44E-05	1,75E-05
928	1,94E-05	1,84E-05	1,68E-05	1,14E-04	1,92E-05
929	2,31E-05	1,75E-05	1,91E-05	3,77E-05	2,04E-05
930	2,29E-05	1,58E-05	1,78E-05	1,87E-05	1,93E-05
931	1,87E-05	2,12E-05	1,78E-05	6,63E-05	2,00E-05
932	2,32E-05	1,83E-05	1,64E-05	1,19E-04	2,10E-05
933	1,87E-05	1,63E-05	1,58E-05	9,70E-05	1,78E-05
934	1,81E-05	2,57E-05	1,63E-05	1,33E-04	2,19E-05
935	1,89E-05	2,48E-05	1,62E-05	5,84E-05	2,15E-05
936	1,65E-05	1,25E-05	1,55E-05	7,58E-05	1,49E-05
937	1,70E-05	1,68E-05	1,70E-05	7,78E-05	1,72E-05
938	1,87E-05	1,46E-05	1,70E-05	5,99E-05	1,70E-05
939	1,79E-05	1,70E-05	1,83E-05	1,14E-04	1,80E-05
940	1,90E-05	1,36E-05	1,92E-05	6,11E-05	1,68E-05
941	2,02E-05	1,42E-05	1,69E-05	5,00E-05	1,75E-05
942	1,94E-05	1,73E-05	2,00E-05	5,38E-05	1,87E-05
943	2,18E-05	2,03E-05	1,73E-05	8,37E-05	2,11E-05
944	1,83E-05	1,73E-05	2,11E-05	3,55E-05	1,82E-05
945	1,82E-05	1,80E-05	1,71E-05	1,27E-04	1,86E-05
946	1,61E-05	2,05E-05	1,78E-05	4,07E-04	2,01E-05
947	1,91E-05	1,38E-05	2,02E-05	1,06E-04	1,73E-05
948	1,87E-05	1,42E-05	1,67E-05	6,59E-05	1,68E-05
949	2,10E-05	1,63E-05	1,66E-05	1,13E-04	1,91E-05
950	2,06E-05	2,75E-05	1,75E-05	2,29E-05	2,34E-05
951	1,80E-05	1,40E-05	1,93E-05	1,14E-04	1,68E-05
952	2,09E-05	1,61E-05	2,08E-05	2,41E-05	1,87E-05
953	1,80E-05	1,54E-05	1,97E-05	3,67E-05	1,71E-05
954	1,67E-05	2,14E-05	1,61E-05	5,89E-05	1,89E-05
955	1,98E-05	2,63E-05	1,64E-05	6,43E-05	2,26E-05
956	1,88E-05	1,44E-05	1,61E-05	1,40E-04	1,72E-05
957	2,13E-05	1,77E-05	1,77E-05	1,04E-04	1,98E-05
958	2,00E-05	1,60E-05	1,75E-05	7,71E-05	1,83E-05
959	1,79E-05	2,26E-05	1,58E-05	6,11E-05	2,00E-05
960	1,66E-05	1,21E-05	1,79E-05	2,01E-04	1,56E-05
961	1,91E-05	1,66E-05	1,73E-05	1,67E-04	1,86E-05
962	1,99E-05	2,10E-05	1,77E-05	5,23E-05	2,04E-05
963	2,21E-05	1,70E-05	1,61E-05	4,15E-05	1,95E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
918	2,73E-04	4,27E-04	1,26E-04	2,26E-03	8,69E-04
919	2,69E-04	4,36E-04	1,27E-04	2,25E-03	8,68E-04
920	3,02E-04	3,82E-04	1,65E-04	2,26E-03	8,67E-04
921	2,83E-04	3,65E-04	1,89E-04	2,25E-03	8,54E-04
922	2,82E-04	4,38E-04	1,60E-04	2,28E-03	8,82E-04
923	2,90E-04	3,77E-04	9,06E-05	2,26E-03	8,56E-04
924	2,99E-04	4,19E-04	8,02E-05	2,33E-03	8,93E-04
925	3,01E-04	3,96E-04	1,63E-04	2,33E-03	8,91E-04
926	2,68E-04	4,33E-04	1,24E-04	2,24E-03	8,64E-04
927	2,84E-04	4,54E-04	1,23E-04	2,20E-03	8,65E-04
928	2,94E-04	4,08E-04	1,12E-04	2,24E-03	8,63E-04
929	2,72E-04	4,68E-04	1,18E-04	2,24E-03	8,74E-04
930	2,72E-04	4,80E-04	1,37E-04	2,27E-03	8,89E-04
931	2,80E-04	4,31E-04	1,85E-04	2,21E-03	8,63E-04
932	2,85E-04	4,17E-04	1,55E-04	2,37E-03	9,03E-04
933	3,08E-04	4,46E-04	1,13E-04	2,31E-03	9,00E-04
934	2,92E-04	4,27E-04	1,61E-04	2,30E-03	8,89E-04
935	2,92E-04	4,62E-04	1,52E-04	2,29E-03	8,98E-04
936	2,65E-04	4,38E-04	1,04E-04	2,32E-03	8,85E-04
937	2,68E-04	4,09E-04	1,38E-04	2,25E-03	8,60E-04
938	2,78E-04	4,12E-04	1,29E-04	2,20E-03	8,50E-04
939	3,02E-04	4,02E-04	1,03E-04	2,32E-03	8,85E-04
940	2,71E-04	4,21E-04	1,29E-04	2,36E-03	8,95E-04
941	2,97E-04	4,02E-04	1,80E-04	2,28E-03	8,80E-04
942	2,91E-04	3,94E-04	1,22E-04	2,32E-03	8,80E-04
943	2,62E-04	4,01E-04	1,40E-04	2,33E-03	8,78E-04
944	2,80E-04	4,02E-04	1,22E-04	2,36E-03	8,90E-04
945	2,95E-04	4,53E-04	1,27E-04	2,30E-03	8,96E-04
946	2,72E-04	4,24E-04	1,05E-04	2,26E-03	8,68E-04
947	2,66E-04	4,12E-04	1,25E-04	2,17E-03	8,36E-04
948	2,64E-04	3,97E-04	1,43E-04	2,28E-03	8,62E-04
949	2,84E-04	4,59E-04	1,94E-04	2,25E-03	8,86E-04
950	2,86E-04	4,05E-04	9,71E-05	2,22E-03	8,55E-04
951	2,79E-04	4,09E-04	1,16E-04	2,28E-03	8,70E-04
952	3,00E-04	4,25E-04	1,36E-04	2,31E-03	8,92E-04
953	2,81E-04	4,18E-04	8,77E-05	2,25E-03	8,64E-04
954	2,58E-04	4,13E-04	9,97E-05	2,24E-03	8,53E-04
955	2,96E-04	4,46E-04	1,43E-04	2,28E-03	8,89E-04
956	2,70E-04	4,49E-04	1,15E-04	2,22E-03	8,63E-04
957	2,78E-04	4,40E-04	1,67E-04	2,28E-03	8,83E-04
958	2,78E-04	4,56E-04	1,51E-04	2,24E-03	8,76E-04
959	2,77E-04	4,07E-04	9,31E-05	2,30E-03	8,73E-04
960	2,83E-04	4,09E-04	1,50E-04	2,27E-03	8,72E-04
961	2,67E-04	4,16E-04	1,51E-04	2,27E-03	8,67E-04
962	2,85E-04	4,26E-04	1,25E-04	2,34E-03	8,94E-04
963	2,83E-04	3,94E-04	9,86E-05	2,29E-03	8,69E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel non ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	7,13E-05	9,81E-05	3,90E-05	6,67E-04	2,55E-04
965	6,44E-05	9,22E-05	2,89E-05	5,99E-04	2,65E-04
966	7,56E-05	9,58E-05	3,45E-05	5,95E-04	2,50E-04
967	6,52E-05	8,16E-05	4,00E-05	7,01E-04	2,59E-04
968	7,37E-05	1,03E-04	3,79E-05	5,82E-04	2,48E-04
969	7,21E-05	9,16E-05	3,36E-05	6,67E-04	2,57E-04
970	6,89E-05	8,00E-05	2,89E-05	6,69E-04	2,52E-04
971	6,83E-05	8,89E-05	3,37E-05	6,54E-04	2,56E-04
972	7,35E-05	9,25E-05	2,97E-05	6,51E-04	2,56E-04
973	6,52E-05	9,91E-05	4,21E-05	6,09E-04	2,53E-04
974	6,63E-05	6,09E-05	3,91E-05	6,60E-04	2,51E-04
975	7,45E-05	8,91E-05	3,52E-05	6,46E-04	2,51E-04
976	7,30E-05	8,84E-05	4,13E-05	6,37E-04	2,52E-04
977	6,32E-05	8,70E-05	5,54E-05	6,95E-04	2,59E-04
978	7,57E-05	1,04E-04	3,32E-05	6,53E-04	2,54E-04
979	5,81E-05	8,47E-05	2,90E-05	6,33E-04	2,60E-04
980	6,79E-05	1,19E-04	3,64E-05	6,69E-04	2,54E-04
981	7,10E-05	8,63E-05	3,75E-05	6,45E-04	2,61E-04
982	6,00E-05	8,94E-05	3,40E-05	6,62E-04	2,54E-04
983	7,16E-05	9,70E-05	3,92E-05	6,11E-04	2,59E-04
984	6,76E-05	9,00E-05	3,08E-05	7,02E-04	2,58E-04
985	7,62E-05	8,90E-05	4,20E-05	6,40E-04	2,51E-04
986	7,27E-05	1,09E-04	3,12E-05	6,64E-04	2,49E-04
987	7,57E-05	8,97E-05	3,51E-05	6,13E-04	2,54E-04
988	7,12E-05	8,70E-05	3,36E-05	6,45E-04	2,41E-04
989	6,43E-05	8,18E-05	3,37E-05	5,69E-04	2,57E-04
990	7,48E-05	6,41E-05	3,27E-05	6,50E-04	2,54E-04
991	6,48E-05	6,37E-05	2,89E-05	6,37E-04	2,55E-04
992	6,67E-05	8,25E-05	3,36E-05	6,57E-04	2,59E-04
993	7,04E-05	9,62E-05	4,01E-05	7,36E-04	2,57E-04
994	7,38E-05	7,57E-05	3,97E-05	6,63E-04	2,57E-04
995	7,45E-05	7,03E-05	4,66E-05	6,99E-04	2,58E-04
996	6,61E-05	7,51E-05	3,96E-05	6,56E-04	2,54E-04
997	6,43E-05	8,39E-05	3,86E-05	6,70E-04	2,50E-04
998	6,30E-05	9,19E-05	3,98E-05	6,73E-04	2,58E-04
999	7,26E-05	1,10E-04	3,77E-05	6,22E-04	2,55E-04
1000	6,00E-05	9,52E-05	3,69E-05	6,04E-04	2,56E-04

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Non lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	1,62E-05	1,91E-05	2,08E-05	5,66E-05	1,80E-05
965	1,88E-05	1,92E-05	2,11E-05	1,84E-05	1,91E-05
966	1,94E-05	1,62E-05	1,77E-05	7,85E-05	1,81E-05
967	2,19E-05	2,62E-05	1,74E-05	3,76E-05	2,35E-05
968	1,90E-05	1,48E-05	1,72E-05	7,01E-05	1,73E-05
969	2,06E-05	1,69E-05	1,64E-05	5,82E-05	1,89E-05
970	1,82E-05	1,40E-05	1,94E-05	2,24E-04	1,75E-05
971	1,83E-05	2,03E-05	1,99E-05	7,88E-05	1,96E-05
972	1,76E-05	2,12E-05	1,68E-05	3,95E-05	1,92E-05
973	1,93E-05	1,85E-05	2,00E-05	1,02E-04	1,94E-05
974	2,21E-05	1,51E-05	1,92E-05	5,34E-05	1,90E-05
975	1,82E-05	2,05E-05	1,58E-05	4,67E-05	1,92E-05
976	2,03E-05	1,42E-05	1,47E-05	2,46E-05	1,72E-05
977	1,92E-05	1,38E-05	1,70E-05	7,12E-05	1,69E-05
978	1,74E-05	2,11E-05	1,64E-05	2,56E-04	2,01E-05
979	1,99E-05	2,73E-05	1,71E-05	1,60E-05	2,30E-05
980	1,98E-05	1,77E-05	1,60E-05	1,60E-04	1,92E-05
981	1,84E-05	2,79E-05	2,15E-05	1,65E-04	2,35E-05
982	1,91E-05	2,28E-05	2,01E-05	6,43E-05	2,10E-05
983	1,77E-05	1,65E-05	1,92E-05	3,41E-05	1,73E-05
984	2,26E-05	1,90E-05	1,76E-05	1,49E-04	2,13E-05
985	1,87E-05	2,14E-05	1,69E-05	9,51E-05	2,02E-05
986	1,96E-05	1,20E-05	1,77E-05	7,51E-05	1,64E-05
987	1,96E-05	1,85E-05	2,10E-05	1,02E-04	1,96E-05
988	2,01E-05	1,49E-05	1,74E-05	6,52E-05	1,78E-05
989	1,83E-05	1,87E-05	1,73E-05	4,06E-04	2,03E-05
990	1,76E-05	1,33E-05	1,85E-05	2,35E-05	1,58E-05
991	1,85E-05	1,83E-05	1,69E-05	7,08E-05	1,85E-05
992	1,91E-05	1,95E-05	1,71E-05	2,11E-05	1,92E-05
993	1,90E-05	2,23E-05	1,62E-05	3,76E-05	2,04E-05
994	1,86E-05	1,50E-05	1,58E-05	6,26E-05	1,70E-05
995	1,90E-05	2,09E-05	1,78E-05	9,24E-05	2,01E-05
996	1,95E-05	1,76E-05	1,73E-05	1,25E-04	1,90E-05
997	1,78E-05	1,83E-05	1,87E-05	2,63E-05	1,81E-05
998	2,14E-05	1,85E-05	1,67E-05	1,10E-04	2,02E-05
999	1,90E-05	1,44E-05	1,68E-05	5,75E-05	1,70E-05
1000	2,25E-05	1,33E-05	1,70E-05	6,04E-05	1,82E-05

Taux de lixiviation de l'arsenic modélisés

Itération	Matériel ségrégué - Lixiviable				
	Amphibolite	Métasédiments	Pegmatite stérile	Ultramafique	Stériles combinés
	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week	mg/kg/week
964	2,90E-04	4,21E-04	1,41E-04	2,26E-03	8,74E-04
965	2,80E-04	4,54E-04	1,65E-04	2,35E-03	9,06E-04
966	2,71E-04	4,05E-04	1,52E-04	2,24E-03	8,56E-04
967	2,79E-04	4,09E-04	1,51E-04	2,29E-03	8,76E-04
968	3,01E-04	3,79E-04	1,78E-04	2,21E-03	8,52E-04
969	2,64E-04	4,60E-04	1,16E-04	2,27E-03	8,79E-04
970	2,91E-04	4,04E-04	1,08E-04	2,26E-03	8,67E-04
971	2,90E-04	4,32E-04	1,17E-04	2,25E-03	8,74E-04
972	2,97E-04	4,04E-04	1,42E-04	2,28E-03	8,75E-04
973	2,54E-04	4,45E-04	1,48E-04	2,23E-03	8,62E-04
974	2,74E-04	4,24E-04	9,76E-05	2,22E-03	8,56E-04
975	2,69E-04	4,40E-04	1,10E-04	2,21E-03	8,56E-04
976	2,69E-04	3,95E-04	1,51E-04	2,28E-03	8,65E-04
977	2,53E-04	4,44E-04	1,35E-04	2,34E-03	8,91E-04
978	2,80E-04	3,95E-04	1,92E-04	2,26E-03	8,65E-04
979	2,73E-04	4,41E-04	1,23E-04	2,28E-03	8,78E-04
980	2,64E-04	4,32E-04	1,37E-04	2,26E-03	8,67E-04
981	2,67E-04	4,07E-04	1,51E-04	2,33E-03	8,82E-04
982	2,79E-04	3,77E-04	8,00E-05	2,30E-03	8,63E-04
983	2,90E-04	4,18E-04	1,86E-04	2,31E-03	8,91E-04
984	2,87E-04	4,26E-04	1,44E-04	2,27E-03	8,77E-04
985	2,92E-04	3,61E-04	1,25E-04	2,25E-03	8,53E-04
986	2,86E-04	3,79E-04	1,36E-04	2,26E-03	8,59E-04
987	2,88E-04	4,17E-04	1,64E-04	2,23E-03	8,65E-04
988	2,69E-04	3,46E-04	1,22E-04	2,20E-03	8,25E-04
989	2,54E-04	4,39E-04	1,92E-04	2,28E-03	8,75E-04
990	3,05E-04	4,01E-04	1,02E-04	2,28E-03	8,75E-04
991	2,95E-04	4,19E-04	9,72E-05	2,27E-03	8,73E-04
992	2,76E-04	4,23E-04	1,60E-04	2,31E-03	8,86E-04
993	2,95E-04	4,19E-04	1,01E-04	2,27E-03	8,74E-04
994	2,70E-04	4,36E-04	1,40E-04	2,31E-03	8,84E-04
995	3,02E-04	3,92E-04	1,18E-04	2,30E-03	8,78E-04
996	2,93E-04	4,16E-04	1,33E-04	2,25E-03	8,68E-04
997	2,69E-04	4,21E-04	1,79E-04	2,21E-03	8,55E-04
998	2,86E-04	4,21E-04	1,12E-04	2,29E-03	8,79E-04
999	2,90E-04	4,24E-04	1,78E-04	2,26E-03	8,78E-04
1000	2,88E-04	4,16E-04	1,34E-04	2,28E-03	8,76E-04

Concentrations modélisées

Temps (années)	Contribution des résidus à la concentration			Contribution des stériles à la concentration			Concentration combinée		
	Arsenic	Antimoine	Lithium	Arsenic	Antimoine	Lithium	Arsenic	Antimoine	Lithium
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
2028-01-01	0,00	0,00	0,00	0,00	0,41	0,08	0,00	0,41	0,08
2029-01-01	0,00	0,00	0,00	0,00	0,41	0,08	0,00	0,41	0,08
2030-01-01	0,17	0,05	0,05	0,01	0,41	0,08	0,18	0,47	0,13
2031-01-01	2,13	0,65	0,64	0,44	0,41	0,08	2,57	1,07	0,73
2032-01-01	3,50	1,06	1,02	0,74	0,41	0,08	4,25	1,47	1,10
2033-01-01	5,52	1,66	1,58	0,76	0,41	0,08	6,28	2,07	1,66
2034-01-01	4,31	1,26	1,14	0,70	0,41	0,08	5,00	1,68	1,22
2035-01-01	7,34	2,20	2,04	0,81	0,41	0,08	8,15	2,61	2,12
2036-01-01	7,78	2,31	2,09	1,30	0,41	0,08	9,08	2,72	2,17
2037-01-01	8,05	2,38	2,11	1,55	0,41	0,08	9,60	2,79	2,20
2038-01-01	8,25	2,43	2,13	1,73	0,41	0,08	9,98	2,85	2,21
2039-01-01	8,40	2,48	2,14	1,83	0,41	0,08	10,22	2,89	2,22
2040-01-01	8,51	2,51	2,14	1,84	0,41	0,08	10,35	2,92	2,22
2041-01-01	8,60	2,54	2,14	1,72	0,41	0,08	10,32	2,95	2,23
2042-01-01	8,66	2,55	2,14	1,47	0,41	0,08	10,13	2,97	2,22
2043-01-01	8,74	2,58	2,15	1,23	0,41	0,08	9,97	2,99	2,23
2044-01-01	8,79	2,60	2,15	1,00	0,41	0,08	9,79	3,01	2,23
2045-01-01	8,83	2,61	2,15	0,82	0,41	0,08	9,65	3,02	2,23
2046-01-01	8,87	2,62	2,15	0,68	0,41	0,08	9,55	3,04	2,23
2047-01-01	8,61	2,55	2,06	0,56	0,41	0,08	9,17	2,96	2,14
2048-01-01	7,50	2,21	1,72	0,47	0,41	0,08	7,97	2,62	1,80
2049-01-01	4,83	1,40	0,92	0,40	0,41	0,08	5,22	1,81	1,01
2050-01-01	3,72	1,09	0,65	0,34	0,41	0,08	4,07	1,50	0,73
2051-01-01	1,77	0,51	0,12	0,34	0,41	0,08	2,11	0,92	0,20
2052-01-01	1,35	0,40	0,07	0,29	0,41	0,08	1,64	0,82	0,15
2053-01-01	1,08	0,34	0,04	0,22	0,41	0,08	1,30	0,75	0,12
2054-01-01	0,90	0,29	0,03	0,19	0,41	0,08	1,09	0,70	0,11
2055-01-01	0,76	0,25	0,02	0,17	0,41	0,08	0,93	0,66	0,10
2056-01-01	0,65	0,22	0,02	0,15	0,41	0,08	0,80	0,63	0,10
2057-01-01	0,56	0,19	0,01	0,13	0,41	0,08	0,69	0,61	0,09
2058-01-01	0,49	0,17	0,01	0,12	0,41	0,08	0,61	0,59	0,09
2059-01-01	0,43	0,16	0,01	0,11	0,41	0,08	0,53	0,57	0,09
2060-01-01	0,38	0,14	0,01	0,09	0,41	0,08	0,47	0,56	0,09


VISION
GEOCHEMISTRY

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G2. Note technique portant sur la caractérisation géochimique (Atkins, 2026a)

AtkinsRéalis	NOTE TECHNIQUE Classification des matériaux miniers selon le GCRMM		
	No de document :	**Rév.**	**Date :**
	PMT-003-24A-QAQ-0001_V0 708538-3500-40ER-0001	00	19 mars 2026

Titre du document : **CLASSIFICATION DES MATÉRIAUX MINIERS DU PROJET SHAAKICHIUWAANAAN SELON LES CRITÈRES DU GUIDE DE CARACTÉRISATION DES RÉSIDUS MINIERS ET DU MINERAI (GCRMM)**

Client : **RESSOURCES PMET INC**

Projet : **PROJET LITHIUM SHAAKICHIUWAANAAN**

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Liste des révisions

#	Prép.	Rév.	App.	Date	Pages	Remarques
PA	EF/SVB			2026-03-05	Toutes	Pour révision interne
PB	EF/SVB	ALN		2026-03-06	Toutes	Pour commentaires
00	EF	ALN		2026-03-18	pp 1, 3, 31-33	Émission finale

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Annexe A. Résultats des essais cinétiques

1. Introduction

AtkinsRéalis a été mandatée par Innova, une filiale québécoise entièrement détenue par Ressources PMET inc., pour réaliser une étude de faisabilité optimisée pour la gestion des résidus miniers et de l'eau pour le projet minier Shaakichiuwaanaan. Le site est situé dans la région d'Eeyou Istchee Baie-James, dans la province de Québec. Il se trouve à environ 220 km à l'est de Radisson et à environ 240 km au nord-nord-est de Nemaska. Le projet permettra d'extraire du spodumène d'un gisement de pegmatite à l'aide d'une méthode hybride combinant l'exploitation à ciel ouvert et l'exploitation souterraine. La durée d'exploitation du projet est actuellement estimée à 23 ans.

1.1 Contexte

La caractérisation des propriétés géochimiques des matériaux miniers qui seront produits lors de l'exploitation du gisement a été entreprise depuis 2023. La plupart des analyses réalisées jusqu'à présent sur les lithologies stériles, le minerai et les résidus miniers de procédé ont été présentées dans le rapport de Vision Geochemistry (2025). Toutefois, la classification des différents lithologies et matériaux miniers selon les critères du Guide de caractérisation des résidus miniers et du minerai (MELCC, 2020), ci-après GCRMM, n'a pas été complétée. De plus, des informations requises, telles que la composition minéralogique des matériaux miniers et les résultats des essais de lixiviation en colonne sur les stériles n'étaient également pas inclus dans le document.

La présente étude vise à valider les hypothèses émises dans le rapport de Vision Geochemistry (2025), à compléter les résultats de caractérisation géochimique des matériaux miniers du projet et, par conséquent, à mettre à jour leur classification selon les critères du GCRMM sur la base de l'information disponible en date de ce rapport.

1.2 Objectif de l'étude

L'objectif de la présente note technique est de valider et mettre à jour l'interprétation des données de caractérisation géochimique de matériaux miniers du projet Shaakichiuwaanaan selon la méthodologie du GCRMM. Les matériaux pourront être ainsi classifiés selon les différentes catégories décrites dans le guide (acidogènes, lixiviables, etc.), permettant ainsi d'évaluer l'impact potentiel sur l'environnement lors de leur entreposage en surface.

Cette note comprend également des résultats d'analyse qui n'avaient pas été présentés antérieurement. Il s'agit de la composition minéralogique des matériaux ainsi que des résultats d'essais de lixiviation en colonne réalisés dans le cadre d'un doctorat de l'Université du Québec en Abitibi-Témiscamingue (UQAT).

2. Programme de caractérisation

2.1 Échantillonnage

Au total, 350 échantillons ont été sélectionnés sur des carottes de forage d'exploration et analysés au laboratoire. Le détail de la sélection des échantillons est présenté dans Vision (2025). La stratégie d'échantillonnage visait à capturer la variabilité spatiale et compositionnelle des matériaux miniers. Parmi ces échantillons, 316 étaient des échantillons de stériles appartenant à quatre types lithologiques : amphibolite, métasédiments, pegmatite stérile et roches ultramafiques. À ceux-ci s'ajoutent des échantillons de minerai de pegmatite à spodumène (25) et de résidus miniers (9). Tous ces matériaux miniers ont été soumis à des tests statiques et cinétiques afin de déterminer leur capacité à générer de l'acidité et à lixivier des métaux (Vision Geochemistry, 2025).

2.2 Programme analytique

L'ensemble de ces matériaux a été soumis à divers volets d'analyses, incluant des essais de détermination du potentiel de génération d'acide, des essais de lixiviation, des essais cinétiques et des caractérisations minéralogiques. Le **Tableau 2-1** présente la répartition détaillée du nombre d'échantillons analysés pour chaque type de test selon la lithologie. Une partie de ces analyses a été détaillée dans l'étude de Vision Geochemistry (2025), c'est notamment le cas des essais statiques, et d'une partie des essais en colonne. À cela s'ajoutent les essais en colonne effectués par l'UQAT sur l'ensemble des lithologies du projet, ainsi que les résultats sur la minéralogie de la majorité de ces dernières.

Tableau 2-1 Programme analytique des lithologies du projet

Lithologie	PGA (1)	Métaux extractibles (2)	Essais de lixiviation				Minéralogie	
			SPLP et CTEU-9 (3)	TCLP (3)	Cellules humides	Colonnes	DRX	TIMA
Amphibolite	128	128	128	41	5+1dup	3	7	2
Métasédiments	101	101	101	50	3	2	1	1
Ultramafique	54	54	54	8	3	2	2	3
Pegmatite	33	33	33	13	2	1	90	-
Pegmatite à spodumène (minerai)	25	25	25	8	2	-	456	13
Résidus miniers	9	9	9	9	-	5+1dup.	-	-

Notes :

1. *Potentiel de génération d'acide – Sobek modifié ;*
2. *La méthode CEAEQ MA 200 Mét. 1.2 (digestion partielle) permet d'analyser la teneur en métaux extractibles dans les échantillons ;*
3. *Méthode MA100 Lix.com : SPLP : essai de lixiviation simulant les pluies acides, CTEU-9 : essai à l'eau déionisée, TCLP : essai de lixiviation à l'acide acétique.*

Les essais cinétiques réalisés sur les matériaux produits par le projet minier sont décrits dans les sections suivantes.

2.2.1 Essais en cellules humides (Vision Geochemistry, 2025)

La configuration de ces essais est décrite dans le rapport de Vision, et est également normée par l'ASTM (ASTM D5744). Il est donc possible de se référer à ces documents pour plus d'information. En tout, 15 essais en cellules humides ont été réalisés. La sélection des échantillons a été réalisée afin de couvrir les intervalles de teneurs en soufre et en arsenic observés dans les différentes lithologies ainsi que divers potentiels de génération d'acide tels que déterminés de façon préliminaire lors des essais statiques. Ces essais se sont déroulés sur une période de 100 semaines. Le **Tableau 2-2** présente la liste des essais réalisés ainsi que les paramètres qui ont guidé la sélection des échantillons.

Tableau 2-2 Liste des échantillons soumis aux essais en cellules humides

Nom de l'échantillon	Lithologie	Paramètres de sélection des échantillons		
		% $S_{sulfure}$	Potentiel de génération d'acide selon les essais statiques	Teneur en arsenic (ppm)
CV5-WR-HCT-2	Amphibolite	1,12	PGA	33
CV5-WR-HCT-5	Amphibolite	0,62	PGA	150
CV5-WR-HCT-14	Amphibolite	0,08	NPGA	11
CV5-WR-HCT-22	Amphibolite	0,04	NPGA	46
CV5-WR-HCT-33	Amphibolite	0,05	NPGA	5,9
CV5-WR-HCT-36	Ultramafique	0,12	NPGA	440
CV5-WR-HCT-39	Métasédiments	0,90	PGA	42
CV5-WR-HCT-50	Métasédiments	0,21	NPGA	100
CV5-WR-HCT-56	Métasédiments	0,58	PGA	13
CV5-WR-HCT-59	Ultramafique	0,04	NPGA	92
CV5-WR-HCT-62	Ultramafique	0,04	NPGA	880
CV5-WR-HCT-64	Pegmatite	0,04	NPGA	14
CV5-WR-HCT-69	Pegmatite	0,04	NPGA	7,2
CV5-WR-HCT-74	Pegmatite à spodumène	0,27	NPGA	17
CV5-WR-HCT-76	Pegmatite à spodumène	0,15	NPGA	3,8

Note : PGA : Potentiellement générateur d'acidité ; NPGA : Potentiellement non générateur d'acidité

2.2.2 Essais en colonnes sur les résidus miniers de procédé (Vision Geochemistry, 2025)

Des essais de lixiviation en colonne ont été réalisés sur des échantillons de résidus miniers issus de différentes étapes du procédé ainsi qu'un composite de l'ensemble de ces échantillons. Les résultats sont disponibles pour vingt semaines d'essai pour cinq échantillons de résidus miniers (Vision Geochemistry, 2025).

- CV5-CL-1 : résidus du procédé de flottation ;
- CV5-CL-2 : composé intermédiaire du procédé ("middlings") ;
- CV5-CL-3 : résidus issus de la séparation magnétique ;
- CV5-CL-4 : résidus du "bypass" ;
- CV5-CL-5 : composite représentatif des futurs résidus de procédés qui seront entreposés sur le site. Un duplicata de cet échantillon a été testé, dans le but de contrôler la validité des résultats.

Des échantillons de 30 cm de hauteur ont été testés dans des colonnes de 15 cm de diamètre (environ 8,5 kg de matériel par colonne). Elles ont été réalisées en conditions drainées. Les rinçages ont été réalisés avec 2 litres d'eau déionisée tous les 15 jours. Le détail de ces essais est disponible dans le rapport de Vision Geochemistry (2025).

2.2.3 Essais en colonnes sur les stériles (UQAT)

Ces essais en colonne ont été réalisés sur les différentes lithologies stériles du gisement. Ils ont été réalisés dans le cadre du projet doctoral de madame Neila Seray sous la direction du professeur Benoît Plante de l'Université du Québec en Abitibi-Témiscamingue (UQAT) en collaboration avec PMET. Les échantillons ont été mis à l'essai soit en conditions drainées, soit en conditions submergées, afin de simuler différents scénarios d'entreposage potentiels. Chaque colonne contient un échantillon unique ou un mélange de lithologies, avec des masses variant d'environ 16 à 20 kg selon les matériaux. Elles sont de forme cylindrique, d'un mètre de longueur et de 14 cm de diamètre. Un géotextile est placé à leur base afin d'éviter la perte de matériaux fins. La configuration de chaque colonne est décrite dans le **Tableau 2-3**. Les échantillons sont principalement des composites des échantillons de carottes de forage qui ont été utilisés pour les essais en cellules humides décrites dans la **Section 2.2.1**. Les quantités de matériel ayant été insuffisantes pour obtenir le poids visé pour chaque colonne, celles-ci ont été complétées par des masses de 1,9 à 9,8 kg de rejets de forage.

Tableau 2-3 Description des essais cinétiques en colonnes pour les stériles (UQAT)

Colonne	Lithologie − Échantillons HCT	Condition	Masse finale dans la colonne
C1	Amphibolite PAG − HCT-5	drainée	≈ 17 kg
C2	Amphibolite NPAG − HCT-22	drainée	≈ 16 kg
C3	Ultramafique − HCT-36 / 59 / 62	drainée	≈ 20 kg
C4	Métasédiments − HCT-39 / 50	drainée	≈ 18 kg
C5	Pegmatite stérile − HCT-64 / 69	drainée	≈ 20 kg
C6	Mélange amphibolite − HCT-5 / 22	drainée	≈ 20 kg
C7	Métasédiments − HCT-39 / 50	submergée	≈ 18 kg
C8	Ultramafique − HCT-36 / 59 / 62	submergée	≈ 20 kg
C9	Mélange de toutes les lithologies stériles en proportions représentatives des matériaux extraits par le projet	drainée	≈ 20 kg

Le rinçage des colonnes a été réalisé tous les 15 jours, sur une période d'un an, excepté pour les colonnes C1 (amphibolite PAG) et C2 (amphibolite NPAG) dont les rinçages ont été réalisés sur une période de 6 mois. Par la suite, les deux échantillons ont été mélangés dans les proportions représentatives des matériaux extraits pour le projet et l'essai en colonne s'est poursuivi pendant 6 mois supplémentaires (colonne C6). La majorité des rinçages a été effectuée avec 1,8 L d'eau déionisée, à deux exceptions près : un volume réduit de 50 % aux rinçages 10 et 11 et un volume augmenté de 200 % aux rinçages 15 et 16. Enfin, les colonnes ont été placées à basse température (4 °C) pour les rinçages 22 et 24.

3. Critères comparatifs

Le Guide de caractérisation des résidus miniers et du minerai (ci-après, GCRMM), publié par le MELCC en juin 2020 et la Directive 019 (MELCCFP, 2025) considèrent que, à l'exception de l'effluent final, les substances liquides ou solides générées par l'extraction, la préparation et la séparation du minerai, y compris les matériaux résultant du traitement ou de l'épuration des eaux minières sont considérées comme des résidus miniers. Ainsi, la caractérisation géochimique des matériaux miniers du projet Shaakichiuwaanaan a été réalisée selon les critères énoncés dans ces documents.

Potentiel de génération d'acide

Selon le GCRMM, un résidu minier est considéré comme potentiellement générateur d'acide si sa teneur en soufre total est supérieure à 0,04 % et qu'au moins une des deux conditions suivantes est remplie :

- Un potentiel net de neutralisation (PNN) inférieur à 20 kg CaCO3/t ;
- Un ratio du potentiel de neutralisation (RPN) inférieur à 2.

Un résidu minier dont la teneur en soufre total est supérieure à 5 % est d'emblée considéré comme générateur d'acidité. Dans ce cas, l'initiateur du projet pourra choisir soit de considérer le matériel minier comme acidogène sans faire plus d'essais, soit de réaliser des essais cinétiques afin de vérifier son potentiel à générer de l'acidité.

Potentiel de lixiviation

Si la concentration en certains métaux dans un échantillon est supérieure au critère des sols A (équivalent à la teneur de fond pour le secteur à l'étude du Guide PSRTC (Beaulieu, 2021)), celui-ci doit être soumis aux essais de lixiviation selon les protocoles SPLP (lixiviation simulant les pluies acides) et CTEU-9 (lixiviation à l'eau).

Les résultats d'analyse des lixiviats et des fractions liquides des échantillons sont comparés aux critères suivants :

- Critères de qualité des eaux souterraines faisant résurgence dans les eaux de surface (critère RES, Annexe 7 du Guide PSRTC) ;
- Critères pour l'effluent final (Directive 019, Tableau 3-1) ;
- Critères pour les résidus miniers à risques élevés (GCRMM, Annexe A).

Pour qu'un résidu minier soit considéré comme non lixiviable, il faut que les concentrations en éléments métalliques dans le solide ne dépassent pas le critère A du Guide PSRTC ou que les lixiviats des essais SPLP et CTEU-9 montrent des concentrations en dessous des critères établis.

Pour qu'un résidu minier soit classé comme potentiellement lixiviable, deux conditions doivent être remplies : il faut qu'au moins un élément métallique soit présent dans la fraction solide à une teneur dépassant le critère A de l'Annexe 2 du Guide PSRTC et que ce même élément montre une concentration dans les lixiviats des essais SPLP et CTEU-9 supérieure au critère RES de l'Annexe 7 du Guide PSRTC.

Si ces conditions se vérifient pour un ou plusieurs éléments, des essais de lixiviation cinétiques peuvent être entrepris, tels que des essais de lixiviation en colonne ou des cellules de terrain pour vérifier le potentiel de lixiviabilité. Les concentrations dans les lixiviats de ces essais sont comparées aux mêmes critères que les lixiviats des essais statiques (SPLP et CTEU-9). Si l'initiateur du projet ne souhaite pas réaliser les essais cinétiques, les résidus peuvent être d'emblée classifiés comme lixiviables.

Résidus miniers à risques élevés (lixiviabilité)

Selon les critères du GCRMM, un matériau minier est considéré comme « à risques élevés » s'il produit, lors d'un essai TCLP, un lixiviat contenant un contaminant dont la concentration dépasse les critères de l'Annexe A du guide.

Radioactivité

Selon les critères de l'Annexe C du GCRMM, un résidu minier est considéré comme radioactif lorsqu'il émet des rayonnements ionisants (S) tels que le résultat de l'équation suivante, qui représente le calcul de la cote S, est supérieur à 1 :

S = C1/A1 + C2/A2 + C3/A3 + …Cn/An

où « C1, C2, C3, …Cn » représentent l'activité massique de ce résidu pour chaque radioélément qu'il contient, exprimée en kilobecquerels par kilogramme (kBq/kg)

et où « A1, A2, A3, …An » représentent, pour chaque radioélément qu'il contient, l'activité massique maximale mentionnée à l'Annexe 1 du Règlement sur les matières dangereuses. Celle-ci s'exprime en kilobecquerels par kilogramme (kBq/kg).

De la même façon, un résidu minier est considéré comme à risques élevés lorsqu'il est radioactif et son lixiviat d'essai TCLP émet des rayonnements ionisants (S), tels que le résultat de l'équation suivante, est supérieur à 0,05.

S = C1/A1 + C2/A2 + C3/A3 + …Cn/An

où « C1, C2, C3, …Cn » représentent l'activité volumique du lixiviat pour chaque radioélément qu'il contient, exprimée en kilobecquerels par litre (kBq/L)

et où « A1, A2, A3, …An » représentent, pour chaque radioélément qu'il contient, l'activité volumique décrite à l'Annexe 1 du Règlement sur les matières dangereuses. Cette activité est exprimée en kilobecquerels par litre (kBq/L).

4. Composition minéralogique

La composition minéralogique des matériaux miniers a été analysée sur des échantillons de carottes de forages réalisés entre 2021 et 2024. L'analyse a été réalisée sur les quatre lithologies de stériles : amphibolite, métasédiments (formation de Marbot), ultramafique et pegmatite ainsi que le minerai (pegmatite à spodumène). Ces lithologies ont été analysées à l'aide de deux technologies : la diffractométrie des rayons X (DRX) et la méthode TIMA (analyseur minéralogique automatisé de Tescan) basée sur l'imagerie réalisée au microscope électronique à balayage couplé à une analyse élémentaire en dispersion des rayons X.

L'analyse DRX a été réalisée sur 7 échantillons d'amphibolite, 2 échantillons d'ultramafiques, 1 échantillon de métasédiments, 90 échantillons de pegmatite et 456 échantillons de pegmatite à spodumène (minerai). Les résultats d'analyse sont résumés dans le **Tableau 4-1**.

Tableau 4-1 Composition minéralogique des différents matériaux miniers (méthode DRX)

(en % massique)	Amphibolite	Métasédiments (Marbot)	Ultramafique	Pegmatite	Pegmatite à spodumène (minerai)
Minéraux majeurs (> 10 %)	Plagioclase Amphiboles	Quartz Plagioclase	Phlogopite Amphiboles	Quartz Plagioclase	Quartz Plagioclase Spodumène
Minéraux mineurs (entre 1 et 10 %)	Quartz Microcline Chlorite Calcite Muscovite	Biotite Chlorite Muscovite Spodumène Feldspath K	Albite Muscovite Chlorite Magnétite Talc	Muscovite Microcline	Muscovite Microcline
Minéraux traces (< 1 %) ou sporadiques	Fluorite Magnétite	Tourmaline Magnétite Talc	Quartz Graphite	Spodumène Tourmaline Pollucite Beryl Chlorite Biotite Apatite	Tourmaline Pollucite Beryl Chlorite Biotite

L'amphibolite présente de l'hétérogénéité dans la composition minéralogique des différents échantillons. En général, elle montre une composition de plus de 50 % d'amphibolites, telle que l'actinolite et l'holmquistite et elle présente des teneurs en quartz variant entre 0,3 et 17,7 % massique avec une moyenne de 7 %. Les phases mineures sont la chlorite, la muscovite, le microcline et la calcite.

L'échantillon de métasédiments montre une composition de plus de 70 % de quartz et de plagioclase. Les phases mineures présentes sont la biotite, la chlorite, la muscovite, le spodumène et les feldspaths potassiques.

Les échantillons de roches ultramafiques sont composés à plus de 50 % de phlogopite et une proportion d'amphibole de l'ordre de 18 à 28 % massique. Les minéraux mineurs sont l'albite, la muscovite, la chlorite, la magnétite et le talc.

La pegmatite et la pegmatite à spodumène présentent des compositions minéralogiques relativement similaires, majoritairement composées de quartz et de plagioclase avec des minéraux mineurs, tels que la muscovite et le microcline. La principale différence est la teneur en spodumène, qui varie en moyenne de 24 % dans la pegmatite à spodumène et de 2,7 % dans la pegmatite considérée comme stérile.

La précision de la quantification DRX dépend étroitement de la qualité du modèle cristallographique et de la représentativité de l'échantillon analysé. Les méthodes d'interprétation des résultats permettent d'obtenir des proportions minéralogiques fiables, avec une incertitude de l'ordre de quelques pourcentages, lorsque les phases sont bien cristallisées. Cependant, la présence de phases amorphes, de textures préférentielles ou de chevauchements importants de pics peut réduire significativement la précision. Il est donc utile d'avoir recours à d'autres méthodes de quantification minéralogique afin d'obtenir plus de précision. De plus, l'analyse de la composition chimique des matériaux miniers a mis en évidence la présence d'arsenic, qui peut être problématique pour l'environnement.

Afin de vérifier la présence de minéraux potentiellement problématiques, une analyse minéralogique plus détaillée a été effectuée à l'aide de la méthode TIMA. Celle-ci permet d'identifier, de cartographier et de quantifier les minéraux présents sur la base de leur composition élémentaire. Cette méthode a été appliquée sur deux (2) échantillons d'amphibolite, trois (3) échantillons d'ultramafiques, un (1) échantillon de métasédiments (groupe de Guyer) et 13 échantillons de pegmatite à spodumène. Les résultats d'analyse sont résumés dans le **Tableau 4-2** pour les stériles et dans le **Tableau 4-3** pour le minerai. Les cases bleues indiquent les teneurs supérieures à 10 %. Les valeurs en gras indiquent des teneurs supérieures à 1 %. Les valeurs en gris indiquent des teneurs de moins de 0,1 %.

Tableau 4-2 Composition minéralogique des lithologies stériles (méthode TIMA en % massique)

Lithologie	Ultramafique	Ultramafique	Ultramafique	Amphibolite	Amphibolite	Métasediments
Échantillon	CV5-WR-HCT-62	CV5-WR-HCT-59	CV5-WR-HCT-36	CV5-WR-HCT-22	CV5-WR-HCT-5	CV5-WR-HCT-50
Quartz	0,99	**2,43**	**2,85**	**6,41**	11,33	16,60
Plagioclase	0,01	**8,36**	0,01	31,24	13,81	32,27
Feldsparth K	0,01	0,07	0,00	0,06	0,98	0,40
Muscovite	0,02	0,42	0,08	0,72	**2,36**	29,62
Spodumène	0,00	0,00	0,00	0,00	0,01	0,01
Tourmaline	**5,76**	0,03	26,27	0,39	**1,68**	**3,98**
Cookéite	0,00	0,00	0,00	0,00	0,00	0,00
Phosphates	0,01	0,19	0,02	0,17	0,11	0,05
Biotite	0,04	0,21	0,13	0,19	**1,04**	**2,67**
Chlorite	19,98	30,01	22,09	18,54	25,66	**9,14**
Epidote	0,01	0,12	0,04	**1,83**	**2,81**	0,34
Fluorite	**1,13**	0,10	0,22	0,29	0,33	0,21
Ilménite	0,32	0,19	0,24	0,05	0,44	0,03
Titanite	**1,54**	0,29	0,43	0,94	0,48	0,03
Rutile	0,00	0,00	0,00	0,02	0,00	0,16
Clinopyroxène	**7,55**	10,26	10,83	**3,58**	**9,89**	0,01
Orthopyroxène	11,86	**3,63**	11,69	0,00	**1,02**	0,00
Oxydes-Fe	**1,34**	0,05	0,08	0,07	0,12	0,08

Carbonates	10,66	0,40	**2,88**	0,29	0,81	**1,05**
Pétalite	0,00	0,00	0,00	0,01	0,04	0,02
Pollucite	0,00	0,00	0,00	0,00	0,00	0,00
Tantalite	0,00	0,00	0,00	0,00	0,00	0,00
Pyrite	0,01	0,03	0,00	0,03	**2,20**	0,50
Nickeline	0,05	0,00	0,15	0,00	0,02	0,00
Arsénopyrite	0,05	0,00	0,00	0,00	0,00	0,18
Gersdorffite	0,12	0,04	0,09	0,00	0,03	0,00
Pyrrhotite	0,75	**1,79**	0,05	0,02	**1,77**	**2,40**
Chalcopyrite	0,02	0,11	0,00	0,01	0,02	0,06
Pentlandite	0,04	0,03	0,00	0,00	0,00	0,00
Sphalérite	0,00	0,00	0,00	0,00	0,01	0,05
Amphibole	**2,57**	37,09	12,34	35,07	22,86	0,01
Talc	34,01	**4,03**	**9,11**	0,00	0,00	0,00
Autres	**1,19**	0,12	0,39	0,06	0,17	0,13

Tableau 4-3 Composition minéralogique du minerai (méthode TIMA en % massique)

Type de matériel	Pegmatite à spodumène (13 échantillons)		
Teneur	**Minimum**	**Médiane**	**Maximum**
Quartz	**2,02**	25,50	48,33
Albite	0,49	**7,58**	45,80
Microcline	**2,10**	**4,05**	**6,00**
Feldspath K	0,13	**1,21**	17,70
Muscovite	**1,20**	**2,71**	**7,80**
Spodumène	**3,00**	51,50	86,31
Tourmaline	0,40	**2,86**	15,50
Lépidolite	0,16	**1,08**	**3,12**
Cookéite	0,02	0,10	0,30
Beryl	0,00	0,00	0,00
Apatite	0,01	0,09	0,50
Biotite	0,20	0,52	**1,97**
Calcite	0,00	0,04	0,20
Chlorite	0,00	0,00	0,10
Fluorite	0,01	0,01	0,03
Grenat	0,01	0,03	0,22
Phosphates Li	0,00	0,00	0,05
Pétalite	0,10	0,47	**1,20**
Pollucite	0,00	0,00	0,04
Tantalite	0,00	0,02	**1,20**
Cassitérite	0,00	0,00	0,01
Sulfures	0,00	0,00	0,01
Zircon	0,00	0,00	0,01
Autres	0,10	0,15	0,60

Il est à noter que l'analyse TIMA ne permet pas de distinguer les différents types de carbonates, étant donné que cette méthode quantifie les proportions élémentaires et que les carbonates possèdent des compositions élémentaires très similaires (C + O + métal). De plus, les éléments légers comme le carbone sont difficiles à quantifier par cette méthode, car leur production de rayons X est faible par rapport aux éléments plus lourds (Goldstein et al. 2018).

Minéraux sulfurés

Aucun sulfure n'a été mis en évidence dans les lithologies stériles par la méthode DRX, excepté pour la pegmatite, dont un échantillon sur 90 a montré une teneur de 0,3 % de pyrite. Pour ce qui est du minerai, la présence de sulfures est rare : sur les 456 échantillons analysés par cette méthode, seuls 1 à 3 échantillons ont montré la présence de pyrite, bornite, sphalérite et/ou stannite avec des teneurs maximales de l'ordre de 0,5 à 1,4 %. De la jarosite a également été mise en évidence dans deux échantillons de minerai.

La méthode TIMA a permis d'identifier les sulfures présents dans l'amphibolite et l'ultramafique. Deux des trois échantillons d'ultramafique présentent des teneurs de 0,75 et 1,75 % de pyrrhotite ($Fe_{1-x}S$). De faibles teneurs de l'ordre de 0,1 % de gersdorffite (NiAsS) et de chalcopyrite ($CuFeS_2$) ont également été observées. L'un des échantillons d'amphibolite n'a montré aucune présence de sulfures, alors que le second a présenté une teneur en pyrrhotite de 1,77 %. L'échantillon de métasédiments a montré une teneur de 2,4 % de pyrrhotite et 0,18 % d'arsénopyrite (FeAsS). Dans la pegmatite à spodumène, aucune concentration significative en sulfure n'a été identifiée.

Il est à noter que les échantillons sélectionnés pour l'analyse TIMA sont ceux qui ont été utilisés pour les essais cinétiques en cellules humides. Certains d'entre eux ont été sélectionnés spécifiquement pour leur teneur élevée en sulfures. L'analyse TIMA permet d'identifier la nature des sulfures présents. Toutefois, au vu du faible nombre d'échantillons analysés par cette méthode, les quantifications obtenues ne peuvent être rapportées à l'ensemble de chaque lithologie. La distribution des teneurs en sulfures dans l'ensemble des échantillons prélevés dans chaque lithologie doit également être prise en compte.

Minéraux neutralisants

Certains minéraux ont la capacité de neutraliser l'acidité générée par l'oxydation des sulfures, tels que les carbonates et, dans une moindre mesure les plagioclases calciques. L'analyse par DRX a mis en évidence les minéraux suivants :

- Amphibolite : Présence de calcite dans cinq des sept échantillons d'amphibolite à des teneurs comprises entre 0,3 et 5,6 %. Les deux autres échantillons présentent des teneurs de 0 et 36,7 % de calcite. Le deuxième carbonate présent est l'ankérite identifiée dans deux des échantillons à des teneurs de 1,9 et 20,3 %.
- Métasédiments et ultramafique : Aucun carbonate n'a été identifié dans les échantillons de ces lithologies.
- Pegmatite : Deux échantillons de pegmatite ont montré des teneurs en carbonates de 0,427 % (minéral non identifié) pour l'un et de 6,8 % (dolomite) pour le second.
- Pegmatite à spodumène : Les carbonates identifiés sont la calcite et l'ankérite. Ils sont toutefois présents dans une minorité d'échantillons et à des teneurs très faibles (<0,05 %). Du fait de l'imprécision de la quantification par DRX. La présence de ces carbonates est incertaine.

Les résultats de quantification par la méthode TIMA confirment la présence de carbonates dans les lithologies stériles avec des teneurs comprises entre 0,4 % et 10,6 % pour les échantillons ultramafiques, entre 0,3 et 0,8 % pour l'amphibolite et de 1,1 % pour l'échantillon de métasédiments. Ces résultats confirment également que la teneur en calcite est très faible dans la pegmatite à spodumène avec une moyenne de 0,06 %.

Minéraux potentiellement problématiques

La présence de minéraux porteurs d'arsenic et de nickel a été mise en évidence par la méthode TIMA. Les échantillons d'ultramafiques montrent la présence de faibles quantités (<0,2 %) de nickéline (NiAs), de gersdorffite (NiAsS) et de pentlandite ($(Fe,Ni)_9S_8$). Les échantillons d'amphibolite présentent des teneurs traces en nickéline, gersdorffite de l'ordre de 0,02 %-0,03 %. L'échantillon de métasédiments présente une teneur de 0,18 % d'arsénopyrite (FeAsS). Les échantillons de pegmatite à spodumène contiennent de faibles quantités d'apatite, de fluorite et de phosphates de lithium. Ces échantillons montrent également une teneur moyenne de 0,47 % de pétalite ($LiAlSi_4O_{10}$). L'oxydation ou la dissolution de ces minéraux pourraient libérer des éléments chimiques (arsenic, nickel, lithium, phosphore, fluor) dans l'eau de contact avec ces matériaux et générer un impact potentiel.

5. Granulométrie

La granulométrie des échantillons joue un rôle déterminant dans la réactivité des minéraux et influence directement leurs propriétés géochimiques environnementales. La littérature scientifique montre que les fractions fines présentent généralement une réactivité plus élevée, en raison de leur surface spécifique accrue, ce qui favorise la libération d'éléments chimiques lors des processus de dissolution et d'altération. Les données disponibles sur la granulométrie des échantillons caractérisés sont décrites dans les sections suivantes.

Telle que décrite à la **Figure 5-1**, la taille de particules attendue pour les stériles extraits lors de l'exploitation est principalement comprise entre 1 cm et 1 m (Vision Geochemistry, 2025). Toutefois, dans la présente étude, les essais de lixiviation ont été réalisés sur des échantillons de carottes de forages concassés. Pour les essais en cellules humides, la granulométrie de l'échantillon a été réduite à moins de 6,3 mm. Pour les essais en colonne de l'UQAT, la taille de particule est comprise entre 0,35 et 20 mm selon l'évaluation par tamisage (**Figure 5-1**). Des essais de granulométrie laser ont également été réalisés sur la fraction fine non évaluée par tamisage. Ils ont mis en évidence des particules de taille allant jusqu'à 0,001 mm.

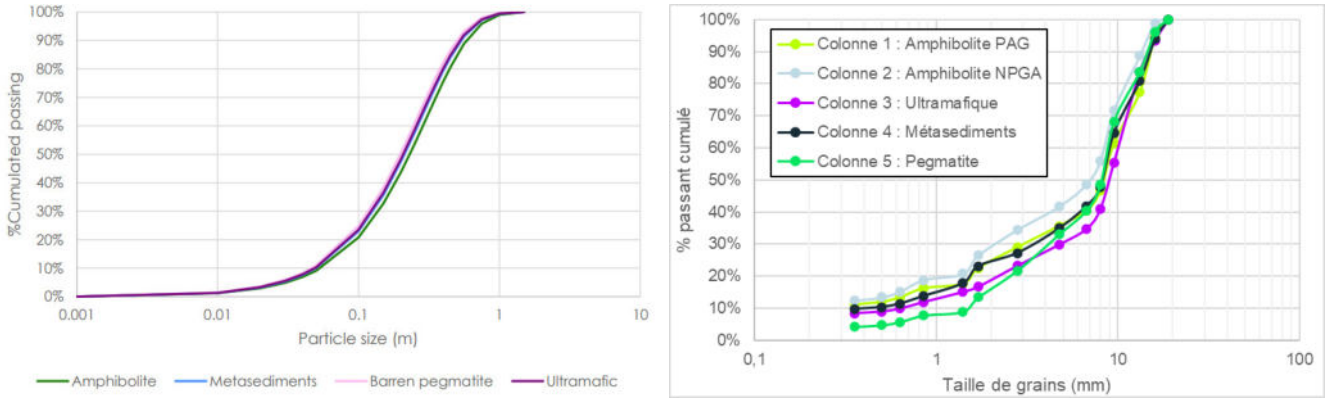


Figure 5-1 Granulométrie attendue pour les lithologies stériles du projet (à gauche, tirée de Vision Geochemistry, 2025) et granulométrie des échantillons mis à l'essai dans les colonnes UQAT (à droite)

La granulométrie des résidus miniers qui ont été produits lors des essais métallurgiques est présentée à la **Figure 5-2** (AtkinsRéalis, 2025). L'échantillon analysé est un composite des différents flux de résidus de procédés qui seront générés dans les proportions projetées lors de l'exploitation. Sa granulométrie est principalement celle d'un sable graveleux.

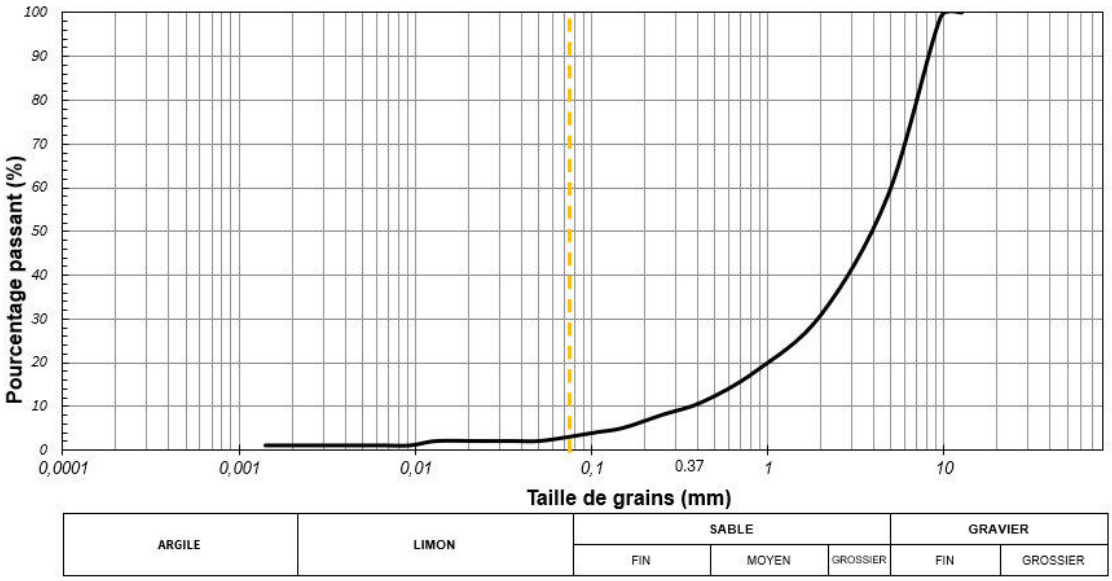


Figure 5-2 Granulométrie des résidus miniers produits par les essais métallurgiques (AtkinsRéalis, 2025)

6. Classification des matériaux miniers

L'ensemble des analyses géochimiques effectuées sur les matériaux miniers du projet ne sera pas présenté dans cette section. Comme mentionné en introduction, la majorité de ces résultats ont été détaillés dans une étude antérieure (Vision Geochemistry, 2025). Il est donc possible de se référer à cette étude pour visualiser les résultats complémentaires qui ont permis de classifier les matériaux miniers dans cette note technique. Les deux principaux facteurs de classification sont le potentiel de génération d'acide, et le potentiel de lixiviabilité. Les deux prochaines sections traiteront ainsi de ces facteurs, pour classifier les matériaux miniers du projet.

6.1 Potentiel de génération d'acide

6.1.1 Distribution du soufre et du carbone et représentativité des essais

La génération d'acidité dans un matériau est liée à l'oxydation des sulfures présents dans les échantillons. La teneur en soufre sous forme de sulfure permet d'évaluer de façon préliminaire le potentiel d'acidification. La teneur en carbone total permet de façon préliminaire d'évaluer la présence de minéraux neutralisants. La **Figure 6-1** et la Figure 6-2 présentent les distributions des teneurs en ces deux éléments sur les 350 échantillons analysés, répartis par lithologie. Il est observé que les teneurs en sulfures sont généralement faibles, en particulier dans l'ultramafique, la pegmatite, la pegmatite à spodumène et les résidus miniers qui sont générés à partir de cette dernière. Les teneurs en sulfures les plus importantes sont observées dans les métasédiments avec 75 % des teneurs comprises entre 0 et 0,43 % et 95 % des valeurs comprises entre 0 et 1 %.

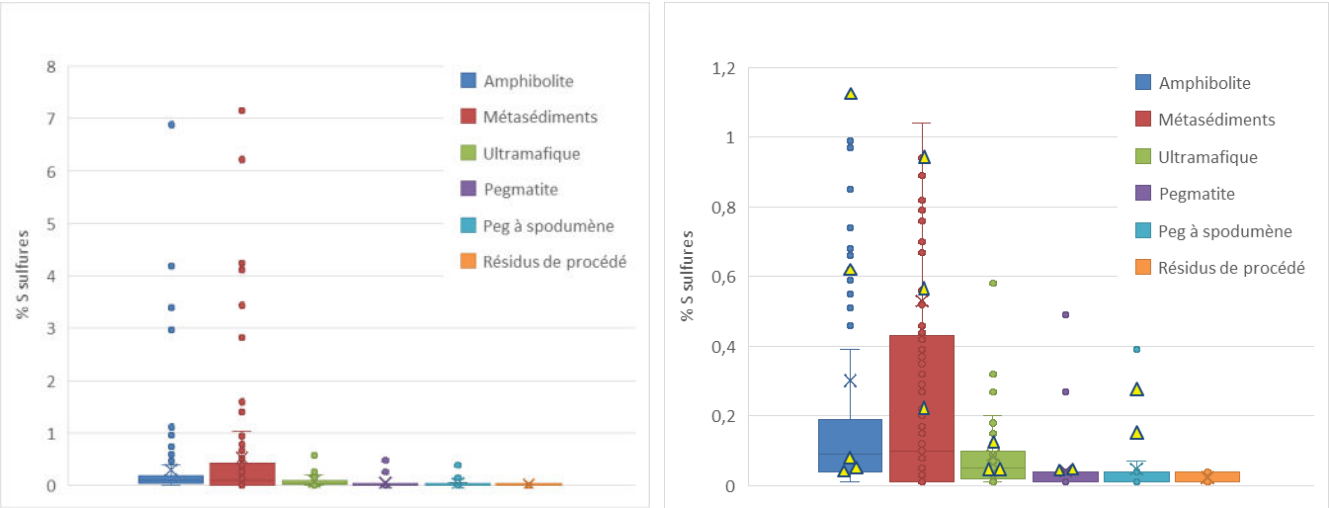


Figure 6-1 Distribution des teneurs en soufre sous forme de sulfures (vue d'ensemble à gauche et vue détaillée à droite)

Sur le graphique de droite de la **Figure 6-1**, les triangles indiquent les teneurs en soufre sous forme de sulfures des échantillons qui ont été utilisés pour les essais en cellules humides et les essais de lixiviation en colonne. Il est constaté que les échantillons sélectionnés pour ces essais couvrent adéquatement l'intervalle des concentrations mesurées lors des essais statiques pour l'amphibolite, l'ultramafique et la pegmatite. Pour les métasédiments, les trois échantillons sélectionnés ont une concentration en soufre sous forme de sulfures supérieure à la médiane des concentrations mesurées pour cette lithologie. Cette sélection permet d'évaluer le potentiel de génération d'acidité de la lithologie de façon conservatrice. Pour la pegmatite à spodumène, les échantillons sélectionnés présentent des concentrations considérablement plus élevées que celles observées dans l'ensemble de la lithologie. Elles ne sont pas représentatives des teneurs observées dans le minerai. L'objectif de ces deux essais est de vérifier le comportement de cette lithologie dans le cas de la présence locale de sulfures.

Pour ce qui est de la teneur en carbone total, les teneurs sont généralement faibles sur l'ensemble des matériaux miniers caractérisés. Les résultats confirment que les carbonates sont quasi absents de la pegmatite, de la pegmatite à spodumène et des résidus miniers. La lithologie ultramafique présente la plus grande teneur avec 95 % des teneurs comprises entre 0,01 % et 0,75 %.

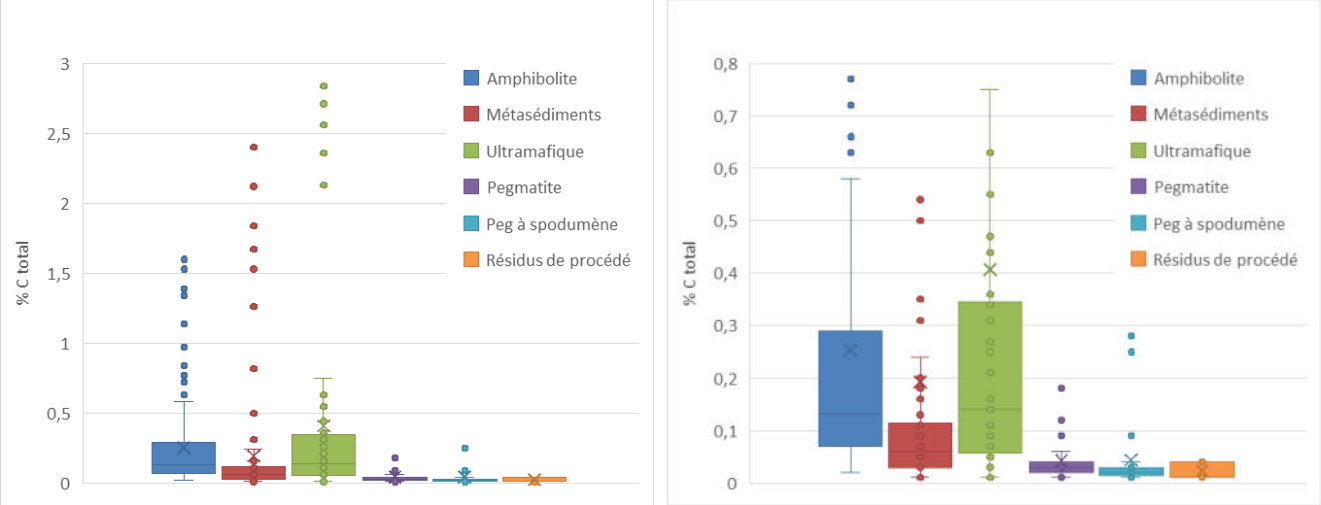


Figure 6-2 Distribution des teneurs en carbone total (vue d'ensemble à gauche et vue détaillée à droite)

6.1.2 Essais statiques

Les résultats des essais de détermination du potentiel de génération d'acide réalisés sur 350 échantillons de matériaux miniers sont fournis dans l'étude de caractérisation effectuée par Vision Geochemistry en 2025. Ces essais ont été réalisés sur les cinq lithologies du projet, ainsi que sur les résidus miniers.

Le **Tableau 6-1** présente un sommaire des résultats obtenus. Il contient les teneurs médianes en soufre pour chaque lithologie, le nombre d'échantillons interprétés comme non potentiellement générateurs d'acidité (NPGA) ou potentiellement générateurs d'acidité (PGA) selon les critères du GCRMM, ainsi que le ratio du potentiel de

neutralisation (RPN) calculé par le rapport de la médiane du potentiel de neutralisation (PN) des échantillons de la lithologie concernée sur la médiane des potentiels d'acidification (PA) de ces mêmes échantillons.

Tableau 6-1 Sommaire des résultats des essais de détermination du potentiel de génération d'acide

Lithologies	Nombre d'échantillons total	% de soufre total (médiane)	Nombre d'échantillons NPGA	Nombre d'échantillons PGA	RPN global
Amphibolite	128	0,14	112	16	5,3
Ultramafique	54	0,07	51	3	8,8
Métasédiments	101	0,18	65	36	2,4
Pegmatite	33	0,01	31	1	31,5
Pegmatite à spodumène	25	0,01	24	1	14,0
Résidus miniers	9	0,02	9	0	15,7

Pour la lithologie ultramafique, le nombre d'échantillons considéré comme PGA est faible en comparaison du nombre d'échantillons analysés et le RPN global de la lithologie est nettement supérieur à 2 (RPN global de 8,8). Il est également à noter que le PN de la lithologie ultramafique est sous forme de carbonate (**Figure 6-3**) qui est le minéral le plus efficace en termes de vitesse de réaction pour la neutralisation. Il est donc peu probable que cette lithologie soit acidogène.

Le nombre d'échantillons d'amphibolite PGA est relativement faible en comparaison au nombre d'échantillons analysés dans cette lithologie et son RPN global est de 5,3. Pour les métasédiments, le nombre d'échantillons PGA est proportionnellement plus élevé que pour l'ultramafique et l'amphibolite, et son RPN global est de 2,4. Pour ces deux lithologies stériles, les teneurs en carbonates sont plus faibles que dans la lithologie ultramafique, en particulier dans les métasédiments, et le PN semble provenir des carbonates ainsi que des silicates. Les silicates sont moins efficaces pour neutraliser l'acidité du fait d'une cinétique de réaction plus lente. La teneur en sulfures dans l'amphibolite étant généralement faible avec une teneur médiane de 0,07 %, il est toutefois probable que cette lithologie soit NPGA. Le potentiel de génération d'acide des métasédiments est plus incertain, car cette lithologie présente le RPN global le plus faible.

Les essais cinétiques ont été réalisés afin de pouvoir confirmer la classification de ces trois lithologies de stériles.

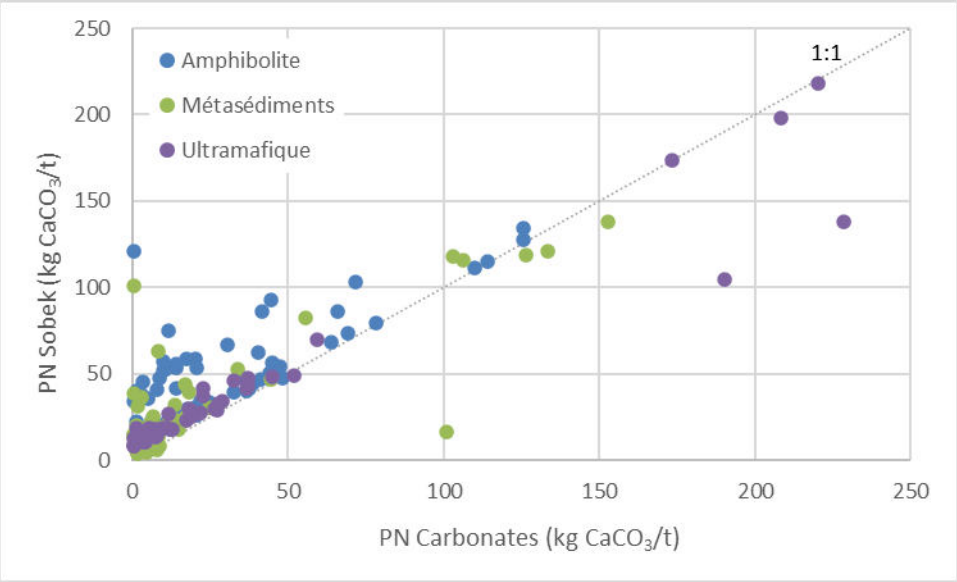


Figure 6-3 Comparaison du PN évalué sur la base de la teneur en carbonates et du PN Sobek modifié

6.1.3 Essais cinétiques

6.1.3.1 Essais en cellules humides

Des essais en cellules humides ont été réalisés sur les différents matériaux miniers du projet sur une période de deux années (Vision Geochemistry, 2025). Les résultats d'analyse des lixiviats des cellules ont montré des pH légèrement alcalins au début des essais avec des valeurs comprises entre 7,5 et 9. Puis ces valeurs ont progressivement baissé jusqu'à 60 semaines d'essais où elles se sont stabilisées entre 6 et 7,5 (**Figure 6-4**). Quelques valeurs légèrement en dessous de 6 ont été mesurées vers la fin de l'essai pour les cellules CV5-WR-HCT-59 (ultramafique) et -HCT-39 (métasédiments).

Les résultats indiquent que seules trois cellules (sur 15 au total) montrent une génération d'acidité qui reste toutefois de faible ampleur. Le lixiviat de l'échantillon d'amphibolite dans la cellule HCT-2 montre une faible acidité à court terme qui culmine à une valeur de 10 mg/L à 15 semaines d'essai, puis passe en dessous de la limite de détection pour le reste de la durée de l'essai (**Figure 6-5**).Le lixiviat de l'échantillon de métasédiments dans la cellule HCT-50 montre une acidité de concentration variable qui augmente à 18 mg/L à la 60e semaine de l'essai, puis redescend progressivement à 4 mg/L à la fin de celui-ci. Les concentrations en sulfates augmentent de 10 à 20 mg/L en fin d'essai (**Figure 6-6**) et la teneur en fer passe de 0,02 à 0,6 mg/L entre la 60e semaine de l'essai et la fin de celui-ci. Il est toutefois à mentionner que l'essai en cellule humide tend à favoriser le développement de conditions légèrement acides (pH 6) même pour des échantillons qui ne sont pas acidogènes du fait du pH relativement acide de l'eau déionisée et du rapport liquide sur solide élevé lors des rinçages. Le lixiviat de l'échantillon d'ultramafique dans la cellule HCT-59 montre une acidification moins marquée que l'échantillon de métasédiments HCT-50. L'acidité varie entre 2 et 9 mg/L tout au long de l'essai avec des valeurs légèrement plus élevées en fin d'essai (7-9 mg/L). Les essais en cellule humide confirment que les échantillons de pegmatite, de pegmatite à spodumène et de résidus miniers sont non acidogènes.

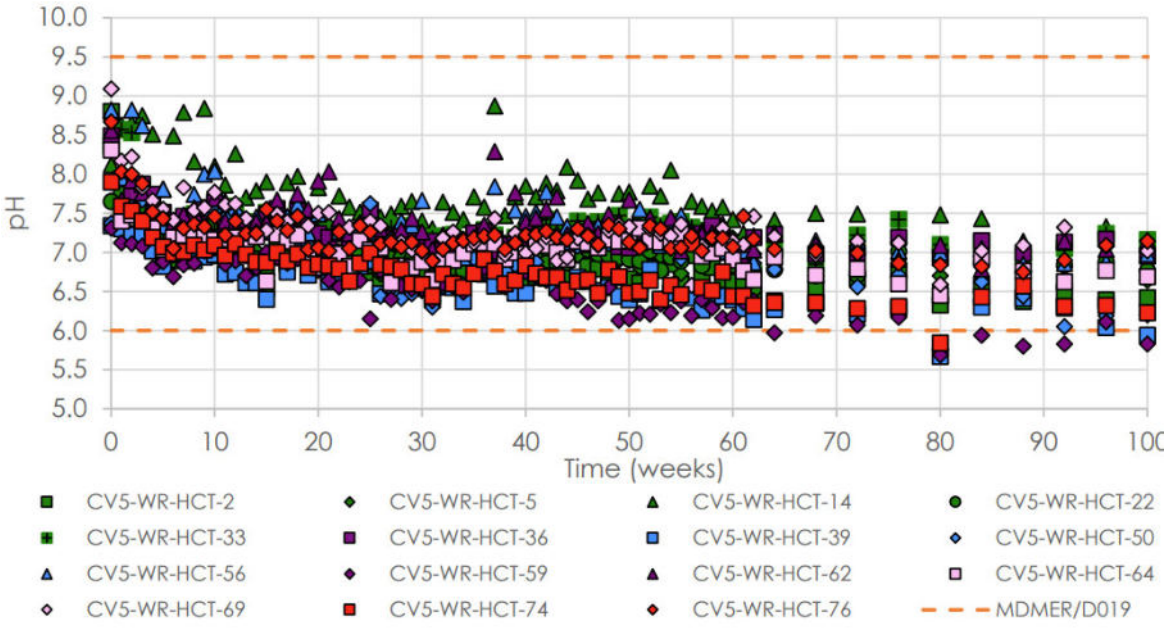


Figure 6-4 Évolution du pH dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

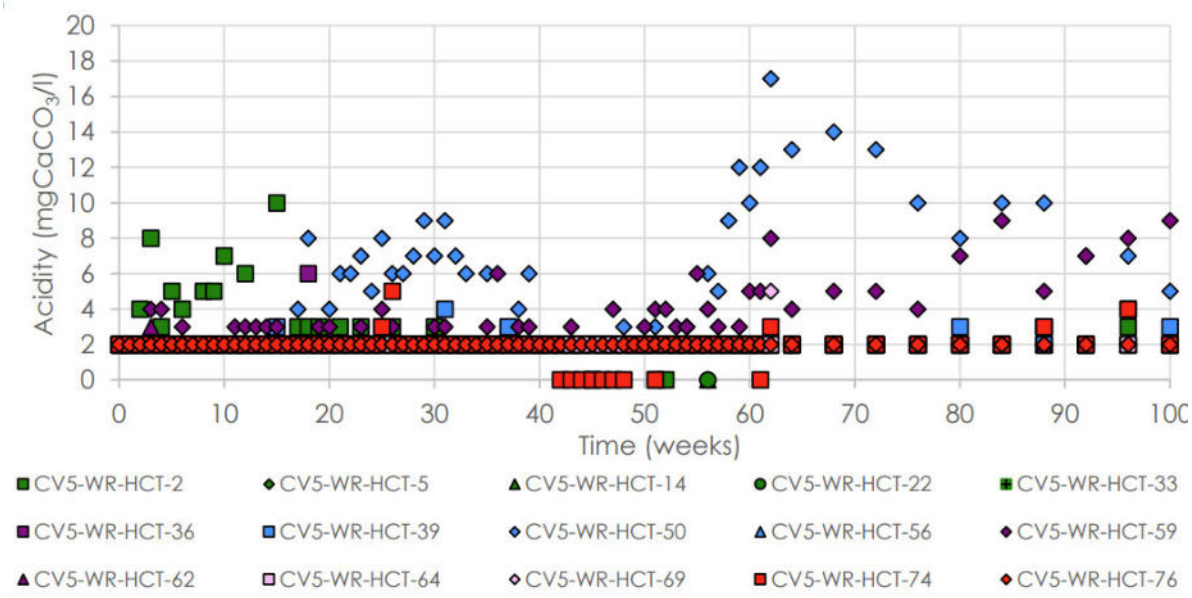


Figure 6-5 Évolution de l'acidité dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

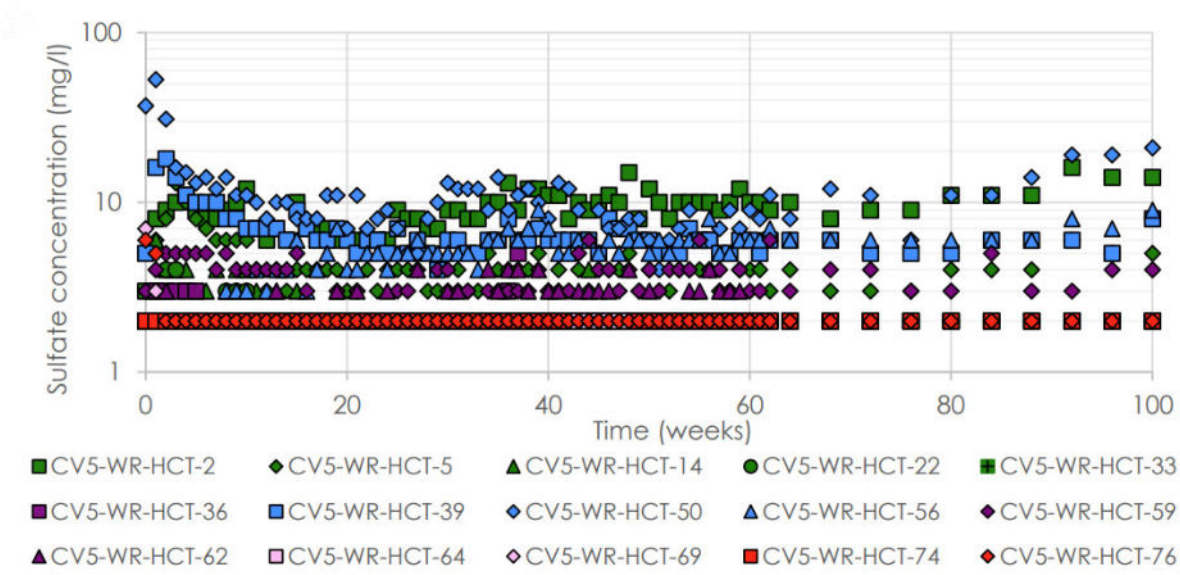


Figure 6-6 Évolution de la concentration en sulfates dans les lixiviats des cellules humides (Vision Geochemistry, 2025)

6.1.3.2 Essais en colonnes (UQAT)

Les essais en colonne sur les lithologies stériles ont été menés sur 336 jours. Les graphiques des résultats sont disponibles en **Annexe A**. Les résultats d'analyses des lixiviats en ce qui concerne le potentiel de génération d'acide sont les suivants :

- Pour toutes les lithologies, le pH passe de légèrement alcalin à autour de la neutralité en fin d'essai.
- L'acidité des lixiviats reste proche de la limite de détection (2-4 mg/L) tout au long des essais pour toutes les lithologies, ce qui signifie que, si de l'acidité est générée, la disponibilité des minéraux neutralisants est suffisante pour neutraliser l'acidité générée durant les 336 jours des essais.
- La concentration en sulfates est plus élevée dans les lixiviats de la colonne drainée de métasédiments (colonne C4) que pour les autres lithologies, indiquant qu'un phénomène d'oxydation des sulfures se produit. Cet argument est soutenu par le fait que les teneurs en sulfates dans les lixiviats de la colonne de métasédiments en conditions submergées (colonne C7) sont significativement inférieures à celles de la colonne C4. Les concentrations en soufre (sulfates) dans les lixiviats de la colonne C4 passe de 78 mg/L en début d'essai à 46 mg/L en fin d'essai alors que ceux de la colonne C7 submergée passe de 40 mg/L à 13 mg/L. La présence de l'eau limite la diffusion de l'oxygène vers les sulfures et donc leur oxydation. Pour les autres lithologies, la teneur en sulfates se maintient en dessous de 10 mg/L, ce qui semble indiquer une faible réactivité.

Les courbes de neutralisation/oxydation (Benzaazoua et al. 2004) ont été tracées pour les trois lithologies (ultramafique, amphibolite et métasédiments). Elles sont présentées à la **Figure 6-7**. Celles-ci permettent de comparer le taux de génération des charges cumulées normalisées en soufre (marqueur de l'oxydation) avec les charges cumulées normalisées de calcium, magnésium et manganèse (marqueurs de la neutralisation). Une relation linéaire est obtenue pour chaque lithologie et la pente de la droite est spécifique à chaque lithologie. Dans l'hypothèse où ce taux de réaction se maintiendrait dans le temps, il serait possible de vérifier, de façon théorique, pour chaque lithologie, lesquels des minéraux acidogènes ou neutralisants s'épuiseraient en premier, par

extrapolation. Lorsque la concentration moyenne initiale en soufre et la somme des concentrations moyennes en calcium, magnésium et manganèse sont comparées aux courbes extrapolées pour chaque lithologie, il est constaté que ces points sont localisés au-dessus de leur courbe respective. Selon cette interprétation, les sulfures seraient théoriquement épuisés avant les minéraux neutralisants. Par conséquent, les trois lithologies seraient considérées comme non acidogènes.

Cette méthode d'interprétation repose toutefois sur plusieurs hypothèses, dont celle selon laquelle la composition minéralogique serait homogène dans chaque lithologie, et celle selon laquelle la réactivité des minéraux resterait constante au cours du temps. Afin de consolider cette interprétation, des essais à plus grande échelle seraient requis afin de s'assurer de bien capter la variabilité au sein de chaque lithologie.

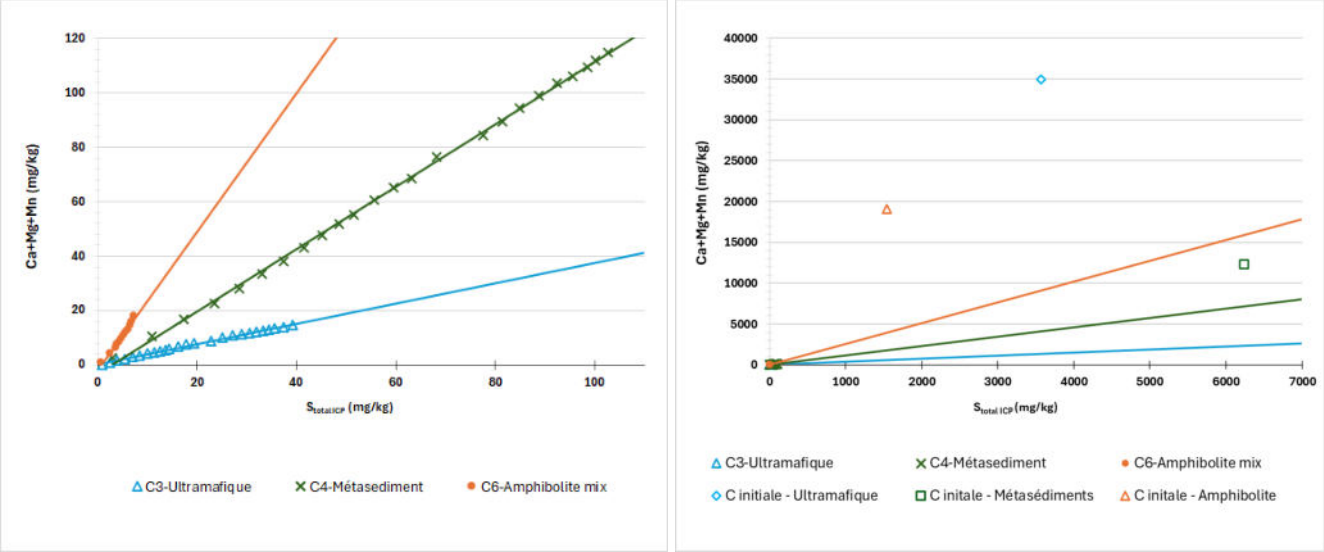


Figure 6-7 Courbes d'oxydation/neutralisation pour les lithologies ultramafique, métasédiments et amphibolite (à gauche) et leur extrapolation (à droite)

6.2 Potentiel de lixiviabilité

6.2.1 Distribution de l'arsenic et représentativité des essais

Sur la base des résultats des essais de lixiviation statiques (SPLP et CTEU9), l'arsenic est l'un des éléments d'intérêt quant à la lixiviabilité des matériaux miniers du projet. La **Figure 6-8** présente la distribution des teneurs en arsenic extractible des 350 échantillons analysés, répartis par lithologie. Il est observé que la teneur en arsenic est considérablement plus élevée dans la lithologie ultramafique que dans les autres lithologies avec une médiane de 210 ppm. Les autres lithologies montrent des médianes comprises en 10 et 16 ppm. Les résidus miniers présentent une médiane de 51 ppm.

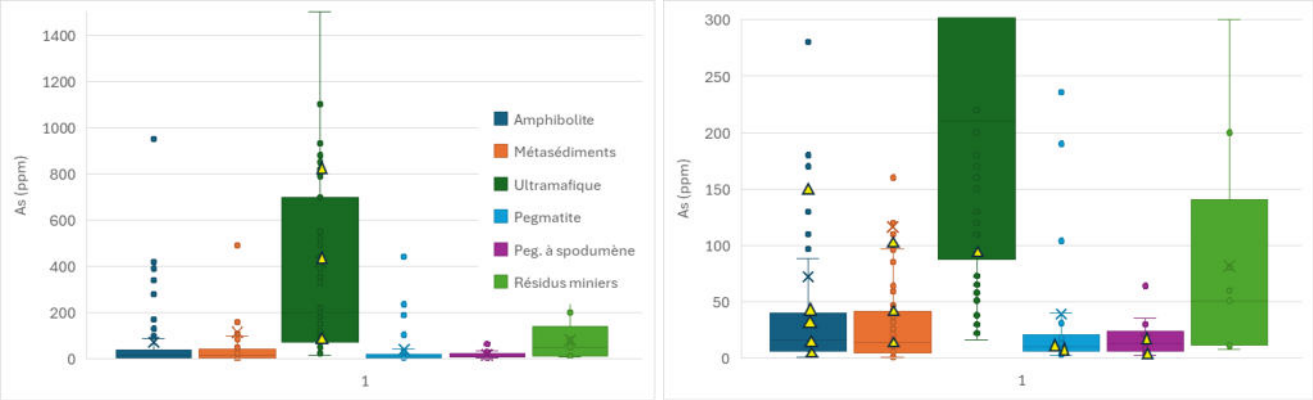


Figure 6-8 Distribution des teneurs en arsenic extractible (vue d'ensemble à gauche et vue détaillée à droite)

Sur les graphiques de la **Figure 6-8**, les triangles indiquent les teneurs en arsenic extractible des échantillons qui ont été utilisés pour les essais en cellules humides et les essais de lixiviation en colonne. Il est constaté que les échantillons sélectionnés pour ces essais couvrent adéquatement l'intervalle des concentrations mesurées lors des essais statiques pour chaque lithologie.

6.2.2 Essais de lixiviation statiques

Les données de teneurs en métaux extractibles et d'analyse des lixiviats des essais SPLP et CTEU-9 disponibles pour chaque matériau (Vision Geochemistry 2025) ont été réinterprétés par rapport aux critères du GCRMM afin de déterminer le potentiel de lixiviabilité de chacun d'eux. Le **Tableau 6-2** récapitule l'ensemble des résultats de la démarche de classification.

La lixiviabilité en métaux varie selon les lithologies, tant en nombre de dépassements des critères de classification qu'en type d'éléments chimiques. Une tendance générale se dégage toutefois : la lixiviation potentielle de l'arsenic apparaît comme un phénomène relativement commun dans toutes les lithologies évaluées, ainsi que dans les résidus miniers. D'autres éléments présentent également des dépassements de critères applicables (critère A et critère RES), c'est notamment le cas du cuivre (27 % des échantillons d'amphibolite, 12 % des échantillons des métasédiments, 17 % de la lithologie ultramafique ou encore 44 % des résidus miniers), ainsi que le chrome pour 78 % des échantillons appartenant à la lithologie ultramafique. D'autres dépassements plus sporadiques ont aussi été observés pour certains éléments, incluant l'argent, le cadmium, le plomb, le zinc et le nickel.

Pour l'interprétation des résultats des essais de lixiviation, il est requis de considérer non seulement la présence de dépassements des critères, mais aussi l'ampleur des écarts par rapport aux critères applicables. En ce qui concerne le Critère A, seuls l'arsenic et le nickel dépassent ce seuil d'un ordre de grandeur dans plusieurs échantillons provenant des lithologies amphibiotique, métasédimentaire et ultramafique. La lithologie ultramafique se distingue particulièrement : 30 % de ses échantillons présentent des dépassements en arsenic de deux ordres de grandeur par rapport au critère, et un échantillon dépasse même ce critère de trois (3) ordres de grandeur. Ces résultats soulignent un potentiel important de lixiviation de l'arsenic, surtout pour les unités ultramafiques.

Les résultats des essais de lixiviation CTEU-9 indiquent une mobilisation potentielle de l'arsenic dans les conditions des essais. En effet, 19 % des échantillons ultramafiques dépassent le critère RES pour l'arsenic de deux (2) ordres de grandeur, et 56 % d'un ordre de grandeur. Un total de 22 % des résidus miniers et de 8 % de la pegmatite (minerai) dépassent également d'un ordre de grandeur le critère RES pour ce métal. De plus, les résultats de ces essais montrent des dépassements de critères d'un ordre de grandeur pour plusieurs autres éléments. C'est notamment le cas de l'argent (22 % des échantillons de résidus miniers et 2 % pour les métasédiments), le chrome (7 % de la lithologie ultramafique), le cuivre (3 % des métasédiments et 6 % de la pegmatite stérile), le lithium (12 % de la pegmatite à spodumène), l'antimoine (22 % de l'ultramafique et 8 % de la pegmatite à spodumène) et le thorium (12 % de la pegmatite stérile, et 8 % de la pegmatite à spodumène).

En comparaison, les essais SPLP montrent un nombre plus limité de dépassements. Aucun dépassement ne dépasse un ordre de grandeur par rapport au critère, sauf pour l'argent, et ce, seulement dans quelques échantillons. Ces résultats suggèrent une lixiviabilité plus faible dans les conditions simulées par les essais SPLP, par rapport à celles représentées par les essais CTEU-9. Les essais CTEU-9 simulent des conditions plus rigoureuses que les essais SPLP du fait de pulvérisation de l'échantillon à -150 microns (-9,5 mm pour l'essai SPLP), un temps d'agitation de 7 jours (18 h pour l'essai SPLP) et un rapport de mélange liquide/solide cinq fois plus faible que celui du SPLP. L'objectif de cet essai n'est pas de reproduire les conditions d'altération du site, mais d'identifier les éléments chimiques d'intérêt dont la lixiviabilité doit être examinée plus en détail.

Tableau 6-2 Interprétation du potentiel de lixiviabilité des matériaux miniers

Lithologies	Métaux > Critère A [1]	SPLP >RES[2]	CTEU-9>RES[2]	Métaux>Critère A et lix>RES [3]	Classification préliminaire
Amphibolite n = 128	As (98), Cu (98), Ni (36), Cr (9), Sn (7), Co (3), Cd (2), Pb (2), Zn (2), Ag (1), Ba (1), Hg (1)	Zn (5), Ag (3), Cu (3), As (2)	Li (69), Cu (37), As (26), Sb (20), Ag (16), Cr (7) Cd (1), Pb (1), Th (1), V (1)	**Cu (35)**, **As (26)**, Ag (1), Cd (1), Cr (1)	Potentiellement lixiviable en cuivre et en arsenic
Métasédiments n = 101	As (70), Cu (18), Ni (12), Sn (12), Cr (8), Zn (6), Cd (5), Ag (3), Pb (3), Co (2), Mn (2), Ba (1), Hg (1)	Cu (4), Ag (2), Zn (2), As (1), Sb (1)	Li (63), Cu (34), Ag (21), As (16), Sb (9), Cr (5), Pb (5), Zn (3), Cd (2), V (2), Be (1), Mn (1), Th (1)	**As (16)**, **Cu (12)**, Cr (5), Ag (2), Pb (2), Zn (2), Cd (1)	Potentiellement lixiviable en arsenic et en cuivre
Ultramafique n = 54	As (54), Cr (53), Ni (53), Co (35), Cu (24), Sn (5), Ag (1), Cd (1), Mo (1), Pb (1), Zn (1)	As (17), Sb (1)	As (50), Cr (42), Sb (36), Li (21), Cu (13), Ni (8), Ag (7)	**As (50)**, **Cr (42)**, **Cu (9)**, **Ni (8)**, Ag (1)	Potentiellement lixiviable en arsenic, chrome, cuivre et nickel
Pegmatite à spodumène n = 25	As (22), Sn (4), Cr (3), Ag (1)	Cu (3), Ag (2), Be (2), Zn (2)	Li (25), As (19), Th (19), Sb (10), Ag (7), Be (7), Cu (6)	**As (18)**	Potentiellement lixiviable en arsenic
Pegmatite stérile n = 33	As (25, Cr (4), Cu (3), Sn (3), Ni (1), Pb (1)	Be (4), Cu (4), Ag (3), Zn (3), Pb (1)	As (24), Th (21), Cu (19), Be (13), Li (8), Ag (6), Pb (3), Fe (2), Sb (2), Cr (1), V (1), Zn (1)	**As (24)**, Cu (3), Pb (1)	Potentiellement lixiviable en arsenic
Résidus miniers n = 9	As (9), Cr (5), Ni (3)	Cu (3), Ag (2), Zn (2)	As (9), Th (6), Li (5), Sb (5), Cr (4), Cu (5), Ag (4), Zn (2), Th (1)	**As (9)**, **Cr (4)**	Potentiellement lixiviable en arsenic et en chrome

Notes :

1. *Il n'y a pas de critère A pour le lithium, l'antimoine et le thorium, entre autres. Ils ont toutefois été intégrés dans l'analyse comme étant des éléments chimiques d'intérêt.*
2. *Plusieurs éléments chimiques d'intérêt n'ont pas de critère RES. Les critères CVAA (critères de vie aquatique - effet aigu) ont été utilisés à titre indicatif. C'est le cas du béryllium, du chrome, du cobalt, de l'étain, du fer, du lithium, du thorium et du vanadium.*
3. *Comme mentionné dans la Section 3.0, pour qu'un échantillon soit considéré comme potentiellement lixiviable, les résultats des essais doivent démontrer à la fois un dépassement du critère A pour les métaux extractibles, et du critère RES pour les essais SPLP ou CTEU-9 et cela pour le même élément chimique dans le même échantillon.*

6.2.3 Essais de lixiviation cinétiques

Entre 2024 et 2025, des essais de lixiviation en colonnes sur les différentes lithologies stériles du projet (UQAT) et sur les résidus miniers (Vision Geochemistry, 2025) ont été réalisés afin de permettre une meilleure compréhension de la lixiviabilité en métaux de ces matériaux. Les résultats de ces essais sont présentés en **Annexe A**.

6.2.3.1 Lixiviabilité des lithologies stériles

Comme décrit dans la **Section 2.2**, des essais de lixiviation en colonne ont été effectués par l'UQAT sur l'ensemble des lithologies stériles pendant un an. Les résultats des essais sont résumés ci-dessous.

- Arsenic : des dépassements des critères D019 et RES sont observés pour l'ensemble des lithologies. Ces concentrations diminuent au cours des essais pour les échantillons de pegmatite et de métasédiments devenant inférieures au critère de la D019 après 200 et 100 jours d'essais respectivement. Pour les échantillons d'amphibolite et d'ultramafique, les concentrations se maintiennent au-dessus du critère RES sur les 300 jours des essais et, à titre indicatif, jusqu'à 250 jours d'essais, les concentrations en arsenic dans les échantillons d'ultramafique sont supérieures au critère de l'Annexe A du GCRMM définissant les résidus miniers à risques élevés. Les concentrations baissent légèrement vers la fin de l'essai, mais elles restent proches de ce critère jusqu'à la fin des essais. Jusqu'à 250 jours des essais, la concentration en arsenic dans la colonne d'ultramafique en conditions submergées présentent des concentrations en arsenic supérieures à celles observées dans la colonne d'ultramafique en conditions drainées. Ce phénomène semble indiquer la présence de minéraux porteurs d'arsenic qui présentent une certaine solubilité dans l'eau.
- Cadmium : Les concentrations en cadmium sont relativement stables et supérieures au critère RES pour chaque lithologie tout au long des essais, excepté pour la pegmatite et les métasédiments. Jusqu'à 70 jours d'essai, les concentrations sont supérieures au critère pour la pegmatite, puis elles baissent sous celui-ci. Pour les deux colonnes de métasédiments, les concentrations se maintiennent en dessous du critère tout au long de l'essai. Il est à noter que les concentrations en cadmium dans les lixiviats des essais en cellules humides étaient toujours proches ou égales à la limite de détection pour toutes les lithologies mises à l'essai.
- Cuivre : Les résultats montrent des concentrations relativement stables tout au long des essais, avec des concentrations généralement inférieures aux critères RES pour toutes les lithologies, excepté la pegmatite qui montre dans son lixiviat des concentrations supérieures au critère durant les 50 premiers jours des essais.
- Nickel : Les concentrations demeurent inférieures aux critères réglementaires pour l'ensemble des lithologies tout au long des essais, à l'exception de l'amphibolite en conditions submergées, qui présente quelques dépassements des critères RES/D019 en début d'essai. Cependant, après 200 jours d'essai, les concentrations chutent et restent sous les critères.
- Antimoine : Les deux colonnes d'ultramafique montrent des concentrations supérieures au critère RES pour toute la durée de l'essai. La colonne C9 (mélange de toutes les lithologies stériles) montre des concentrations supérieures au critère dans les premiers 150 jours de l'essai, probablement du fait de sa composante en ultramafique.
- Lithium, plomb, uranium, zinc : Les concentrations se maintiennent sous les critères RES (CVAA pour le lithium, à titre indicatif) pour toutes les lithologies sur toute la durée des essais.

6.2.3.2 Lixiviabilité du minerai

Deux essais en cellules humides, CV-WR-HCT-74 et -76, ont été réalisés sur le minerai (Vision Geochemistry, 2025). Les résultats de ces essais sont présentés en **Annexe A** pour les principaux éléments d'intérêt. Les résultats des essais ont mis en évidence dans les lixiviats de l'un de ces échantillons (HCT- 74) des concentrations en arsenic supérieures au critère RES pour les trois premiers rinçages et des concentrations en lithium égales au critère CVAA (Critère de vie aquatique – effet aigu) pour les deux premiers rinçages. Par la suite, les concentrations en ces deux éléments s'amenuisent progressivement dans les lixiviats. L'échantillon de la cellule HCT-76 ne montre pas de concentrations en arsenic ou en lithium supérieures à leur critère respectif pour toute la durée des essais. Les concentrations en cuivre, en nickel, en antimoine et en zinc dans les lixiviats des deux cellules restent en dessous de leur critère RES respectif tout au long des 100 semaines d'essai.

Sur la base de ces résultats, le minerai pourrait présenter un potentiel de lixiviabilité en arsenic et, à titre indicatif, en lithium à très court terme. Étant donné que les deux échantillons présentent des comportements différents, la représentativité des propriétés géochimiques de l'échantillon CV-WR-HCT-74 devrait être évaluée par rapport aux propriétés de la lithologie complète. Il est également recommandé de procéder à des essais de lixiviation en colonne sur le minerai afin de mettre à l'essai une masse plus grande d'échantillon dans des conditions plus représentatives des conditions de terrain.

6.2.3.3 Lixiviabilité des résidus miniers

Les essais cinétiques en colonne réalisés sur cinq échantillons de résidus miniers (Vision Geochemistry, 2025) confirment une partie des résultats des essais statiques. Quatre de ces échantillons présentent des lixiviats avec des concentrations qui dépassent les critères RES et D019 de l'arsenic, pendant toute la durée des essais, c'est notamment le cas de l'échantillon composite représentatif des résidus miniers qui seront entreposés sur le site (colonne CL-5). Les teneurs en chrome dans les lixiviats sont très faibles sur toute la période d'essai pour toutes les colonnes.

Malgré une concentration dans son lixiviat initial dépassant le critère RES pour les résidus miniers de flottation, les concentrations en cuivre mesurées dans les lixiviats sont inférieures à la limite de détection pour tous les échantillons à partir du troisième rinçage. Ce résultat indique l'absence d'un potentiel significatif de lixiviation du cuivre dans les résidus miniers évalués.

Pour l'antimoine, les résultats montrent une diminution graduelle des concentrations au fur et à mesure du déroulement des essais. Après quatre semaines de rinçage, les concentrations deviennent inférieures au critère RES, ce qui illustre une atténuation progressive du potentiel de relargage de cet élément au fil du temps. Des conclusions similaires peuvent être faites pour le lithium.

Les concentrations en uranium de l'échantillon CL-5 restent au-dessus du critère RES pendant huit (8) semaines sur vingt (20). Toutefois, la diminution constante de ces concentrations semble montrer qu'il n'y a pas de problématique de lixiviation à long terme en uranium pour les résidus miniers.

6.2.4 Sommaire sur la lixiviabilité des matériaux miniers

Les essais en cellule humide et les essais en colonne diffèrent principalement par leurs conditions expérimentales : les cellules humides appliquent des cycles standardisés d'humidification-séchage, tandis que les colonnes reproduisent de façon plus représentative les conditions observées sur le terrain. De plus, comme mentionné dans la Section 5.0, les différences de granulométrie des échantillons qui sont soumis à ces essais jouent un rôle prépondérant dans la réactivité des phases minérales présentes. Ces différences peuvent entraîner des comportements de lixiviation distincts selon les lithologies. Le rapport entre la quantité de lixiviat et la quantité de solide lixivié influe également sur les taux de lixiviation. Ce rapport est de l'ordre de 1 pour les essais en cellule humide et de 0,1 pour les essais en colonne. À titre comparatif, ce rapport est de 0,001 à 0,01 pour une halde à stériles (Dent et al., 2022).

Le **Tableau 6-3** synthétise les informations recueillies des différents essais afin de classifier les matériaux quant à leur lixiviabilité en métaux et métalloïdes. La classification est faite sur la base de l'information disponible en considérant que les propriétés des échantillons analysés pour une lithologie sont représentatives des propriétés de l'ensemble de cette lithologie.

Tableau 6-3 Interprétation de la lixiviabilité des lithologies et des résidus miniers

Lithologies/Matériaux	Selon les essais statiques	Selon les essais cinétiques		Classification
		À court terme	À long terme	
Amphibolite	arsenic, cuivre	As Cd Sb	As Cd Sb	Lixiviable
Métasédiments	arsenic, cuivre	As	-	Lixiviables
Ultramafique	arsenic, cuivre, chrome, nickel	As Cd	As Cd	Lixiviable
Pegmatite (stérile)	arsenic	As Cd Cu	-	Lixiviable
Pegmatite à spodumène (minerai)	arsenic	As (Li)*	-	à confirmer par des essais supplémentaires
Résidus miniers (composite)	arsenic, chrome	As U (Li)*	As	Lixiviable

* Le lithium (Li) ne possédant pas de critère RES, son critère CVAA a été utilisé afin de l'intégrer dans l'analyse à titre indicatif.

6.2.5 Matériaux à risques élevés

Dans le cadre des essais réalisés par Vision Geochemistry (2025), lors des essais de lixiviation TCLP, seuls deux échantillons ultramafiques sur huit ont montré des concentrations dans leur lixiviat supérieures au critère des résidus miniers à risques élevés pour l'arsenic. Les concentrations observées dans leur lixiviat étaient de 5,80 mg/L et 7,58 mg/L (critère de 5 mg/L).

La lithologie ultramafique est classée non acidogène (voir **Section 6.1**), ce qui signifie qu'elle ne devrait pas générer des conditions acides comparables à celles qui sont simulées lors de l'essai TCLP. Il est donc peu probable qu'elle produise naturellement un lixiviat présentant des concentrations en arsenic suffisamment élevées pour entraîner une classification « à risques élevés ». De plus, ces deux échantillons ne sont pas représentatifs de l'ensemble de la lithologie, car ils avaient été sélectionnés en raison de leurs teneurs élevées en arsenic. Ils semblent refléter ainsi des cas extrêmes plutôt que le comportement général de la lithologie ultramafique.

Sur la base de ces considérations, il est considéré qu'aucun des matériaux miniers du projet ne soit classé comme « à risques élevés » selon les critères du GCRMM.

6.3 Radioactivité

Une analyse préliminaire de la radioactivité des matériaux miniers du projet a été réalisée. La radioactivité des matériaux miniers provient principalement des isotopes de l'uranium et du thorium ainsi que des radionucléides faisant partie de leur chaine de décroissance. La **Figure 6-9** présente la distribution des teneurs en uranium et en thorium extractible analysés dans le cadre de l'étude de Vision Geochemistry (2025). Les teneurs en ces deux éléments sont faibles, de l'ordre du ppm pour l'ensemble des matériaux miniers du projet. Il semble a priori que la radioactivité potentielle de ces matériaux est faible. Il faut mentionner toutefois que les teneurs présentées sont des teneurs obtenues par digestion partielle des échantillons. Il est donc possible que ces teneurs sous-estiment la teneur totale des matériaux en ces éléments.

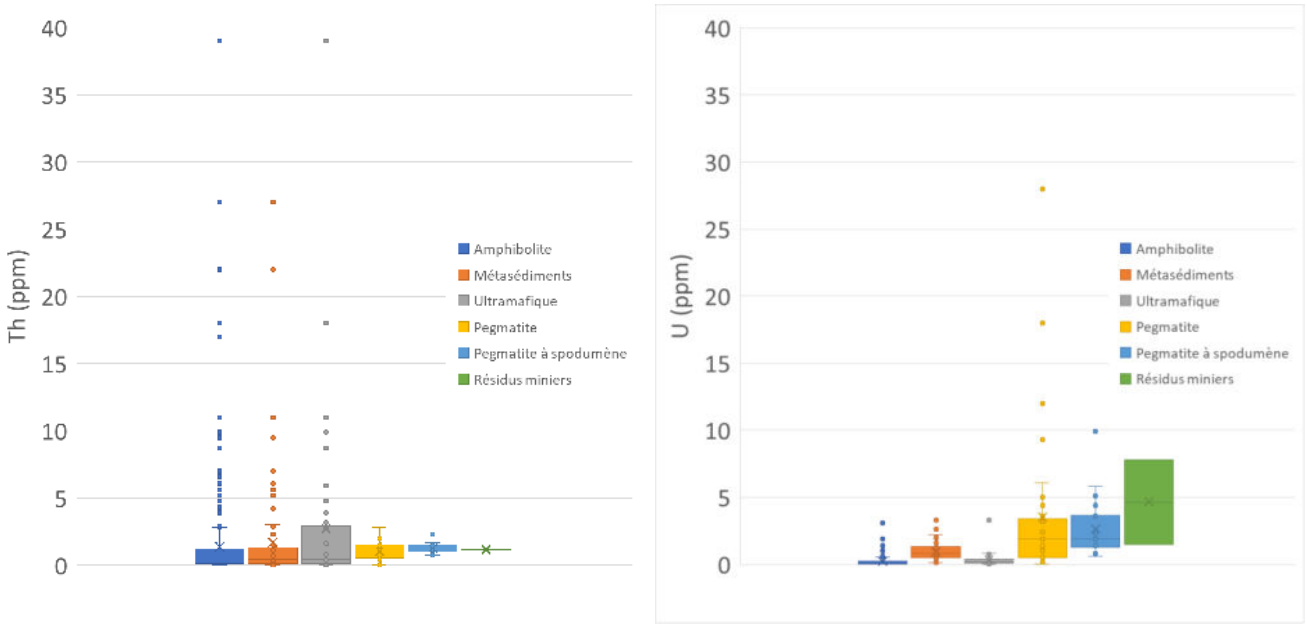


Figure 6-9 Teneurs en thorium et uranium extractibles

Dans le cadre des essais en colonne de l'UQAT, l'activité de certains radionucléides a été mesurée dans les lixiviats des colonnes C1 à C9 au mois 1 des essais et dans ceux des colonnes C3 à C9 au mois 9.

Les isotopes analysés sont le plomb-210, le radium-226 ainsi que le thorium-228, -230 et -232. Les lixiviats du mois 1 des essais en colonne montrent des activités généralement inférieures à la limite de détection, excepté pour les colonnes C4 (métasédiments), C5 (pegmatite stérile) et C7 (métasédiments en conditions submergées). Les isotopes détectés sont le radium -226, le thorium -230 et -232. Les activités les plus élevées sont observées dans le lixiviat de la colonne de pegmatite C5 avec des activités comprises entre 0,11 et 0,19 Bq/L. En comparant l'activité massique de ces radionucléides avec leur activité massique maximale, il est possible d'estimer, de façon partielle, le rayonnement ionisant S associé à chaque lithologie. Les valeurs obtenues pour chaque lithologie sont significativement inférieures au critère définissant les matériaux à risques élevés en termes de radioactivité. La situation est similaire au mois 9 des essais. Les isotopes détectés sont le radium -226 dans les lixiviats de toutes les colonnes, sauf la C6 (amphibolite) et le plomb -210 pour les colonnes C5 (pegmatite) et C6. Les activités sont toutefois trop faibles pour que les valeurs du coefficient S calculées soient supérieures au critère définissant les matériaux miniers à risques élevés. Les activités du radium -226 sont inférieures au critère de l'effluent final de la Directive 019 (0,37 Bq/L) lors de chaque mesure.

L'évaluation préliminaire du potentiel de radioactivité des matériaux miniers du projet semble indiquer qu'il est peu probable que ceux-ci soient classifiés comme radioactifs. Cette affirmation devra être confirmée par la réalisation d'essais permettant le calcul du coefficient de rayonnement S incluant l'ensemble des isotopes requis par le GCRMM.

7. Conclusions et recommandations

Une revue des données géochimiques disponibles a été réalisée afin de mettre à jour la classification des matériaux miniers qui seront produits dans le cadre de l'exploitation du projet Shaakichiuwaanaan selon les critères du Guide de caractérisation des résidus miniers et du minerai du Québec. Les données examinées incluent des résultats d'essais statiques réalisés sur 350 échantillons de stériles, de minerai et de résidus miniers ainsi que des résultats d'essais cinétiques en cellules humides et en colonnes. Une partie de ces résultats a été présentée antérieurement dans le rapport de Vision Geochemistry (2025). Le présent rapport vise à réaliser une validation et une mise à jour de l'interprétation présentée dans le rapport de 2025 sur la base des données additionnelles collectées.

Le **Tableau 7-1** présente une synthèse de la classification des différentes lithologies évaluées dans le cadre de cette revue. Cette vue d'ensemble constitue la base de l'interprétation des risques associés au comportement géochimique des matériaux du projet et servira à bâtir le programme de gestion des matériaux miniers sur le site. La classification est établie sur la base de l'information disponible au moment de cette revue en considérant que les propriétés des échantillons analysés pour une lithologie sont représentatives des propriétés de l'ensemble de cette lithologie.

Tableau 7-1 Classification des lithologies concernées par le projet

Lithologie	Acidogène	Lixiviabilité	À risques élevés	Radioactivité (évaluation préliminaire)
Amphibolite	Non	Lixiviable (**As, Cd, Sb**)	Non	Non
Métasédiments	Non	Lixiviables (As)	Non	Non
Ultramafique	Non	Lixiviable (**As, Cd**)	Non	Non
Pegmatite stérile	Non	Lixiviable (As, Cd, Cu)	Non	Non
Pegmatite spodumène	Non	Potentiellement lixiviable (As, Li), à confirmer par des essais supplémentaires	Non	Non
Résidus miniers	Non	Lixiviables (**As**, Li, U)	Non	Non

Note : les éléments **en gras** sont plus susceptibles d'être lixiviés sur le long terme selon les résultats des essais en colonne

Il est à noter que, dans le cadre du rapport de Vision Geochemistry (2025), plusieurs lithologies avaient été identifiées comme potentiellement acidogènes de façon préliminaire. À la lumière de l'information supplémentaire qui a été examinée dans le cadre de la présente étude, ce potentiel n'a pas été confirmé. L'ensemble des matériaux miniers du projet est considéré comme non acidogène. Il est toutefois recommandé de poursuivre les essais dans des conditions plus représentatives des conditions de l'exploitation afin de valider cette information.

Bien que toutes les lithologies aient été classifiées comme non acidogènes, la lithologie des métasédiments serait la plus sensible à une hétérogénéité de la distribution en sulfures ou en minéraux neutralisants. En effet, cette unité présente les teneurs en soufre les plus élevées et des teneurs en carbonates parmi les plus faibles. Le risque environnemental que pourrait représenter cette unité doit être évalué plus en détail.

Aucun matériau minier du projet n'a été classé comme « à risques élevés » dans le cadre de cette revue. Toutefois, les essais en colonne sur la roche ultramafique montrent des concentrations lixiviées de plus de 5 mg/L pour l'arsenic. Des essais à plus grande échelle doivent être mis en œuvre afin de vérifier les concentrations lixiviées dans les conditions du terrain.

Selon les résultats d'analyses disponibles, l'ensemble des matériaux miniers présentent un certain potentiel de lixiviabilité à court terme (métasédiments, pegmatite) ou à plus long terme (amphibolite, ultramafique et résidus miniers). Vision Geochemisty (2025) propose la mise en place d'un procédé de ségrégation permettant de séparer le stérile en deux groupes, l'un étant constitué de matériel à faibles risques, l'autre comprenant le matériel lixiviable et acidogène. Des essais de laboratoire débuteront en mars 2026 pour tester ces critères de ségrégation sur les différents matériaux miniers du projet et de vérifier la possibilité de produire du matériel à faible risque sur la base de ceux-ci.

Au terme de cet exercice, plusieurs recommandations peuvent être formulées afin d'améliorer la connaissance des propriétés des matériaux miniers du projet et de permettre une gestion adéquate de ceux-ci durant l'exploitation. Ces recommandations tiennent compte des commentaires de l'Agence d'évaluation d'impact du Canada (AEIC) qui ont été reçus par PMET en février 2026. Elles sont les suivantes :

- Étudier la répartition spatiale des éléments potentiellement problématiques (soufre, arsenic, antimoine, etc.) au sein du gisement afin de localiser les zones potentiellement enrichies. Les propriétés géochimiques de ces zones peuvent être différentes par rapport aux propriétés moyennes de la lithologie dans laquelle elle se retrouve.
- Réaliser des essais de lixiviation à plus grande échelle, avec une granulométrie représentative de celle observée dans les haldes à stériles, et dans les conditions d'altération du site.
- Réaliser des essais de validation des critères de ségrégation en laboratoire afin de vérifier la possibilité d'isoler un matériel à faibles risques à partir des lithologies stériles sur la base de ces critères.
- Réaliser un essai en colonne sur un composite d'échantillons représentatifs du minerai afin de finaliser la classification pour cette lithologie ;
- Examiner la représentativité des propriétés géochimiques de l'échantillon de minerai de la cellule humide CV-WR-HCT-74 par rapport aux propriétés de la lithologie complète ;
- Procéder à l'évaluation de la radioactivité des différentes lithologies/matériaux miniers du projet selon les exigences du GCRMM (évaluation du coefficient de rayonnement S) ;
- Analyser la composition minéralogique des résidus miniers, car ces données ne sont pas disponibles actuellement ;
- Augmenter le nombre d'analyses de la composition minéralogique des lithologies stériles sur des échantillons représentatifs afin, entre autres, de mieux identifier les minéraux neutralisants de l'unité de métasédiments ;

- Vérifier si un phénomène d'adsorption du nickel retarde l'émission de cet élément dans les lixiviats de la lithologie ultramafique ;
- Validation en conditions opérationnelles : Bien que les essais statiques et cinétiques offrent un cadre robuste, un programme de suivi en conditions réelles d'exploitation permettra également de confirmer les comportements anticipés.

Il est à noter que les travaux de caractérisation géochimique des matériaux miniers qui seront produits par le projet se poursuivent en 2026. Des essais de lixiviation sont en cours de démarrage au laboratoire et des essais de lixiviation en barils ont débuté en octobre 2025 sur le site de la future exploitation minière. Les recommandations mentionnées ci-dessus seront intégrées à ce programme de caractérisation.

8. Références

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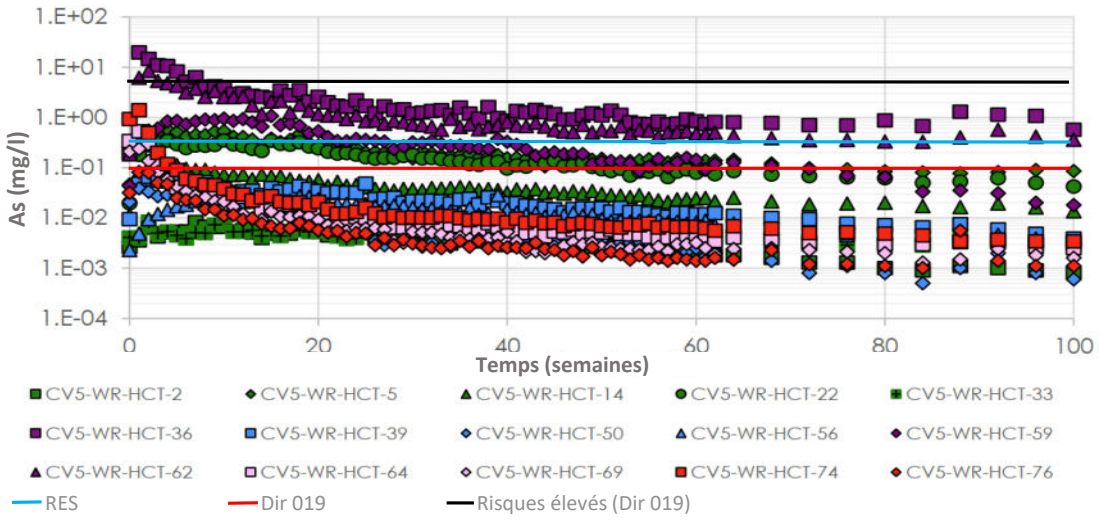
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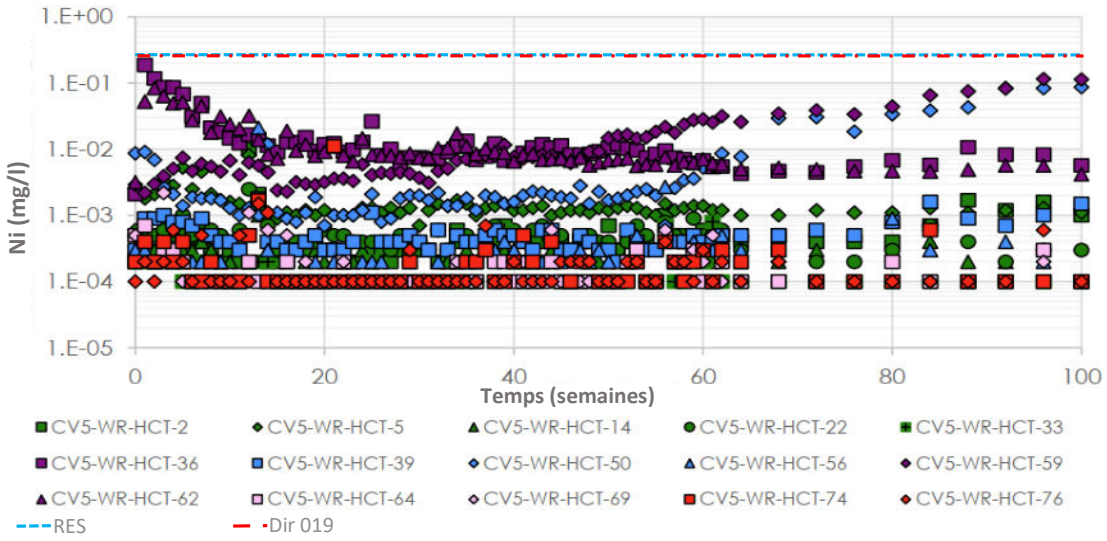
LISTE DES ANNEXES

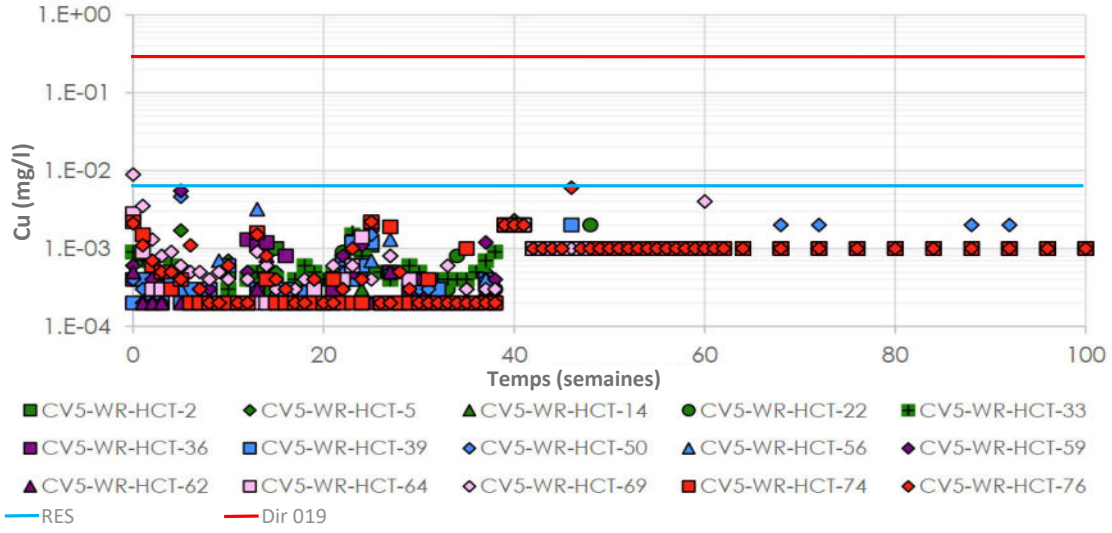
Annexe A. Résultats des essais cinétiques

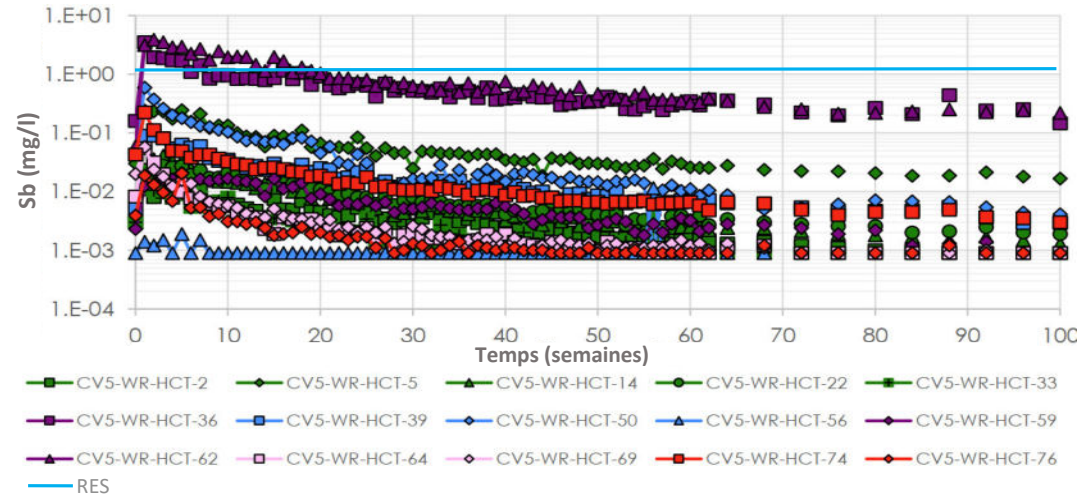
A.1 Résultats des essais en cellule humide (Vision Geochemistry, 2025)

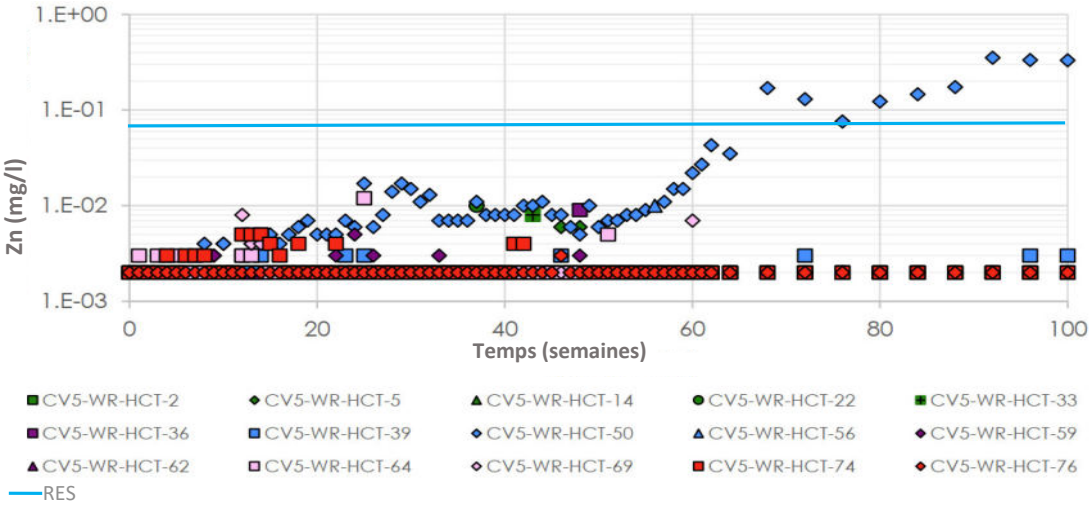
AtkinsRéalis - Sensitive / Sensible [FR]

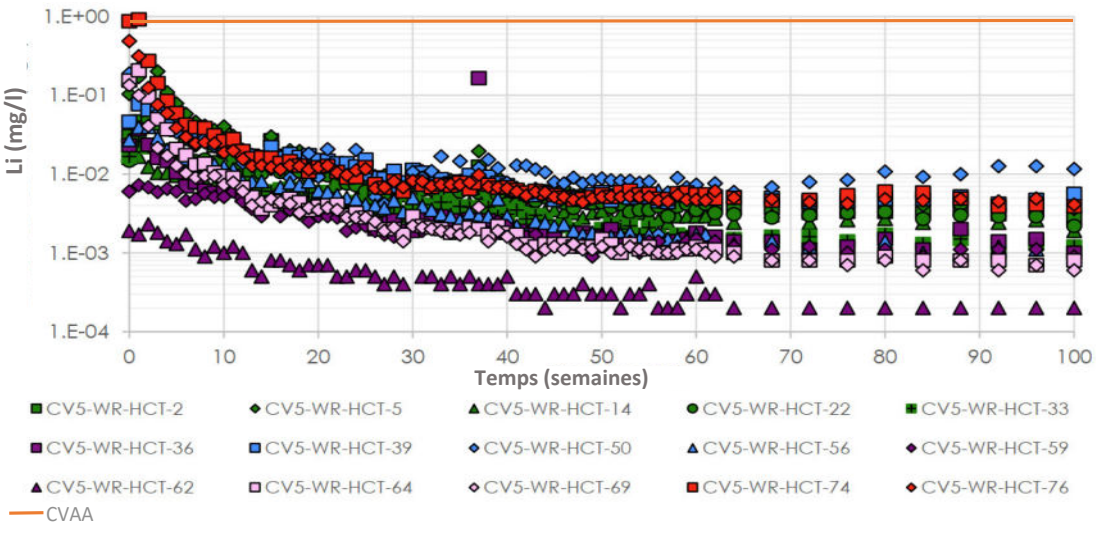

1.E+02
1.E+01
1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
As (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019
Risques élevés (Dir 019)


1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
1.E-05
Ni (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019


1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
Cu (mg/l)
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
RES
Dir 019

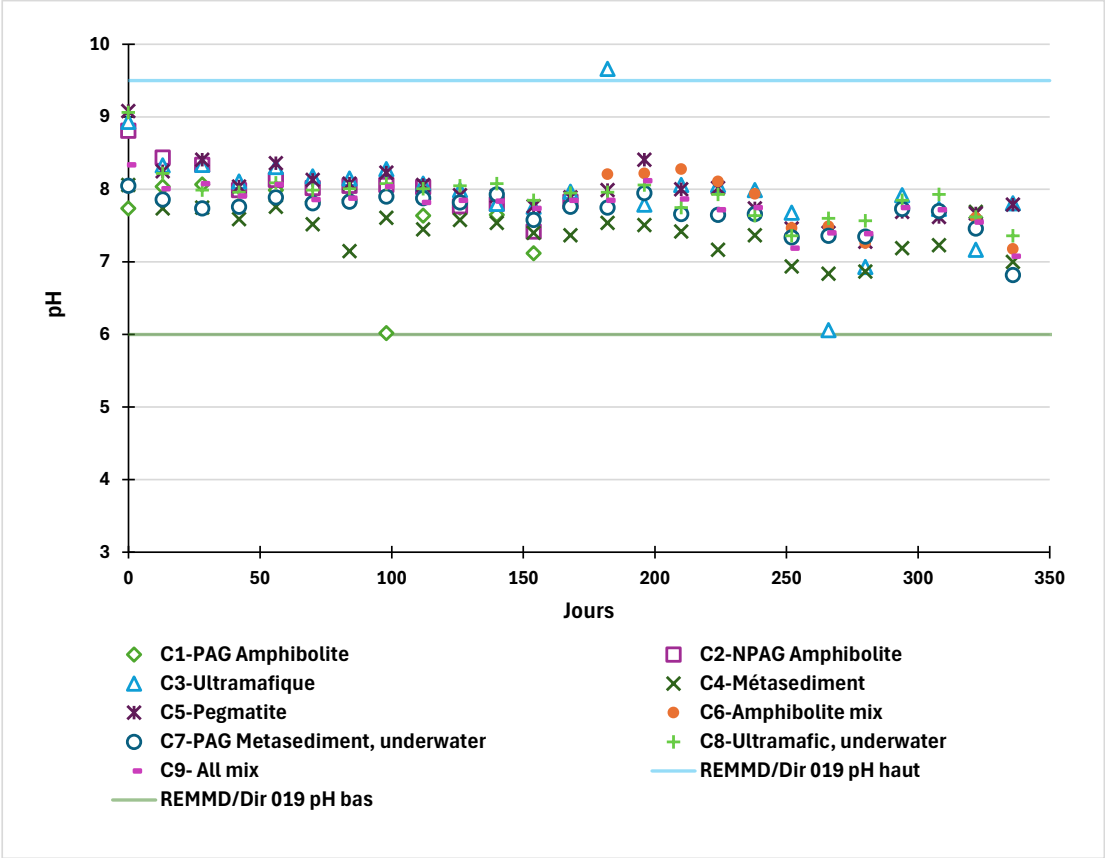

Sb (mg/l)
1.E+01
1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
0
10
20
30
40
50
60
70
80
90
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
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CV5-WR-HCT-74
CV5-WR-HCT-76
RES

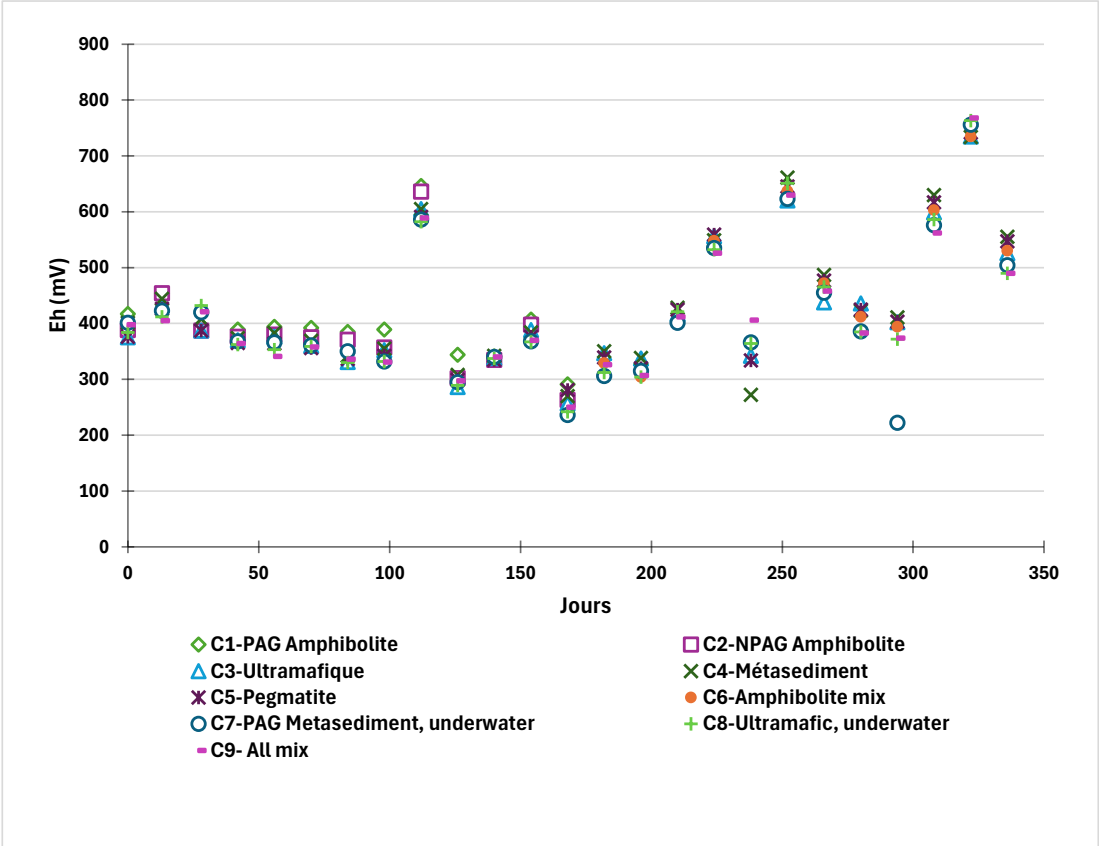

Zn (mg/l)
1.E+00
1.E-01
1.E-02
1.E-03
0
20
40
60
80
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
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CV5-WR-HCT-76
RES

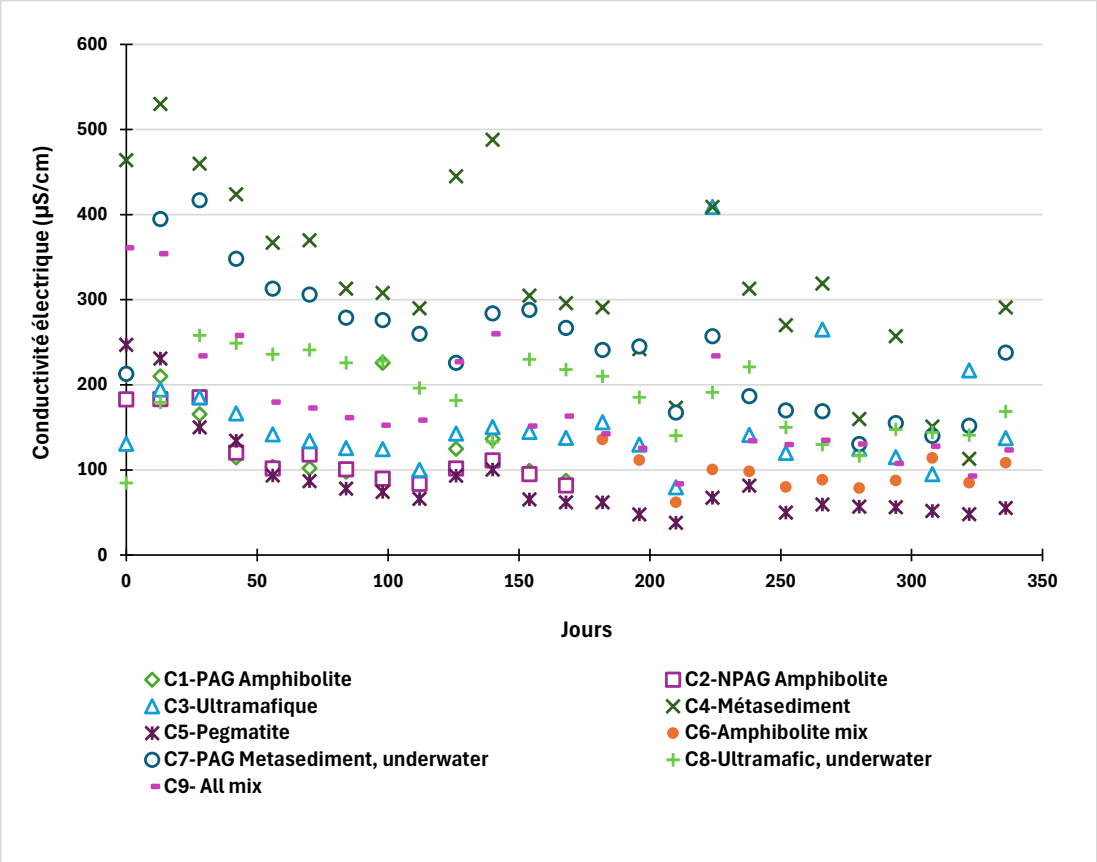

Li (mg/l)
1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
0
10
20
30
40
50
60
70
80
90
100
Temps (semaines)
CV5-WR-HCT-2
CV5-WR-HCT-5
CV5-WR-HCT-14
CV5-WR-HCT-22
CV5-WR-HCT-33
CV5-WR-HCT-36
CV5-WR-HCT-39
CV5-WR-HCT-50
CV5-WR-HCT-56
CV5-WR-HCT-59
CV5-WR-HCT-62
CV5-WR-HCT-64
CV5-WR-HCT-69
CV5-WR-HCT-74
CV5-WR-HCT-76
CVAA

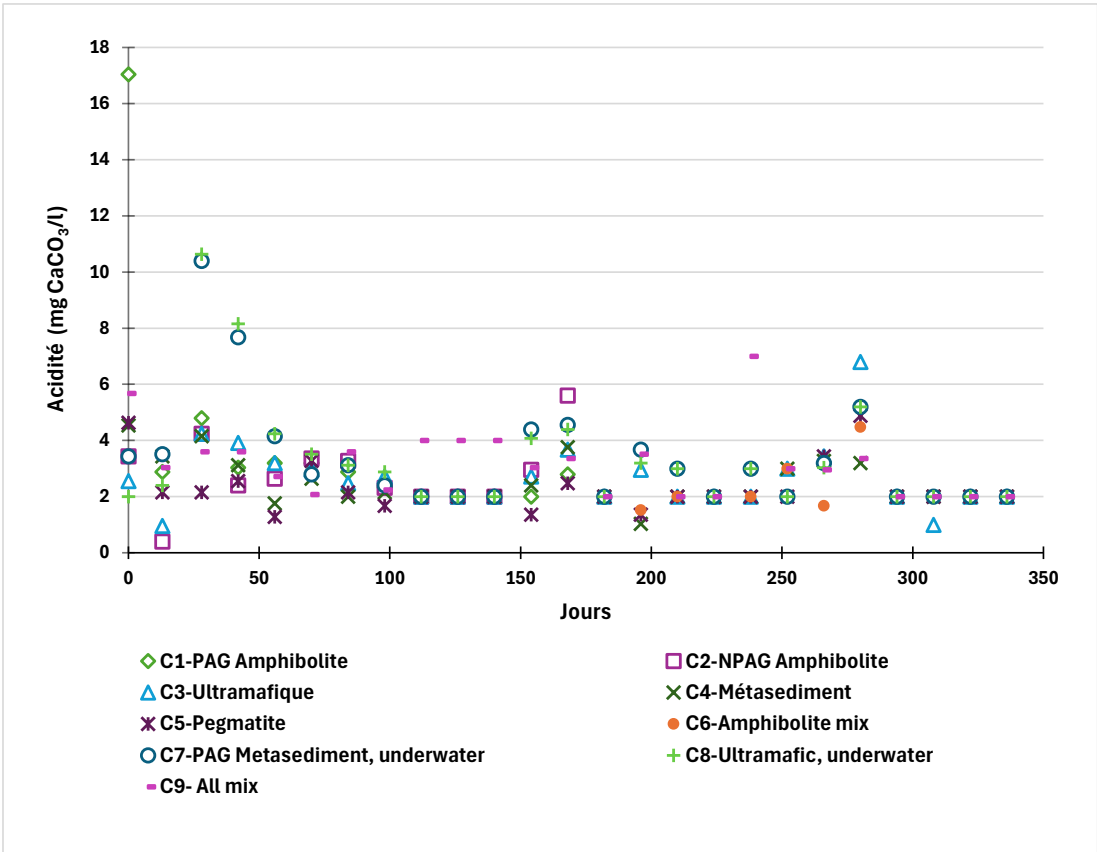
A.2 Résultats des essais en colonne – UQAT

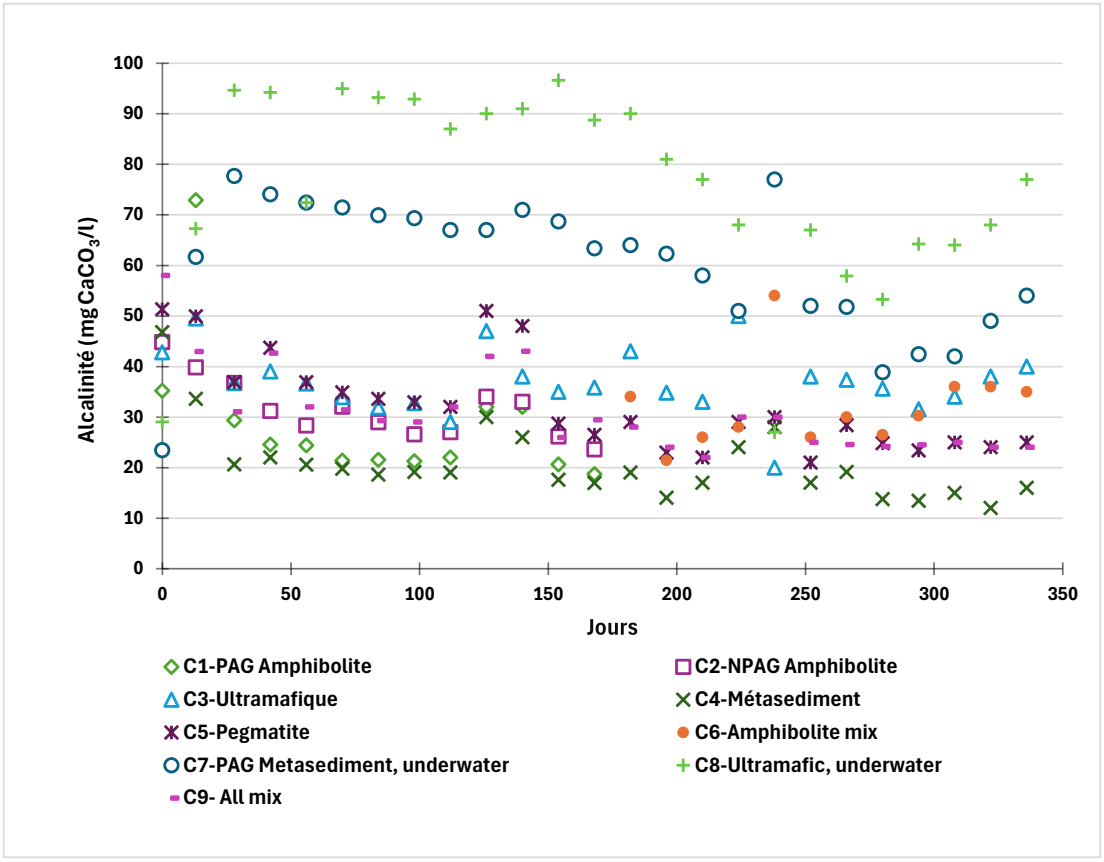
AtkinsRéalis - Sensitive / Sensible [FR]

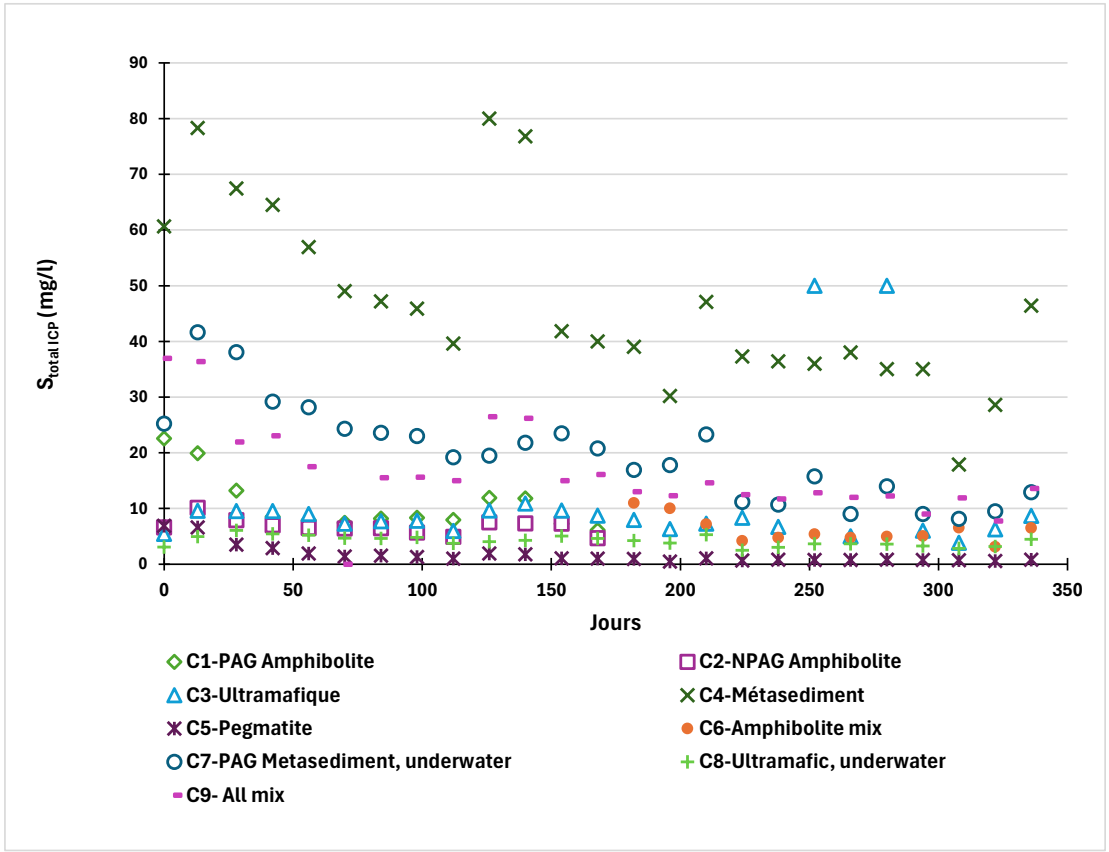

pH
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
REMMD/Dir 019 pH haut
REMMD/Dir 019 pH bas

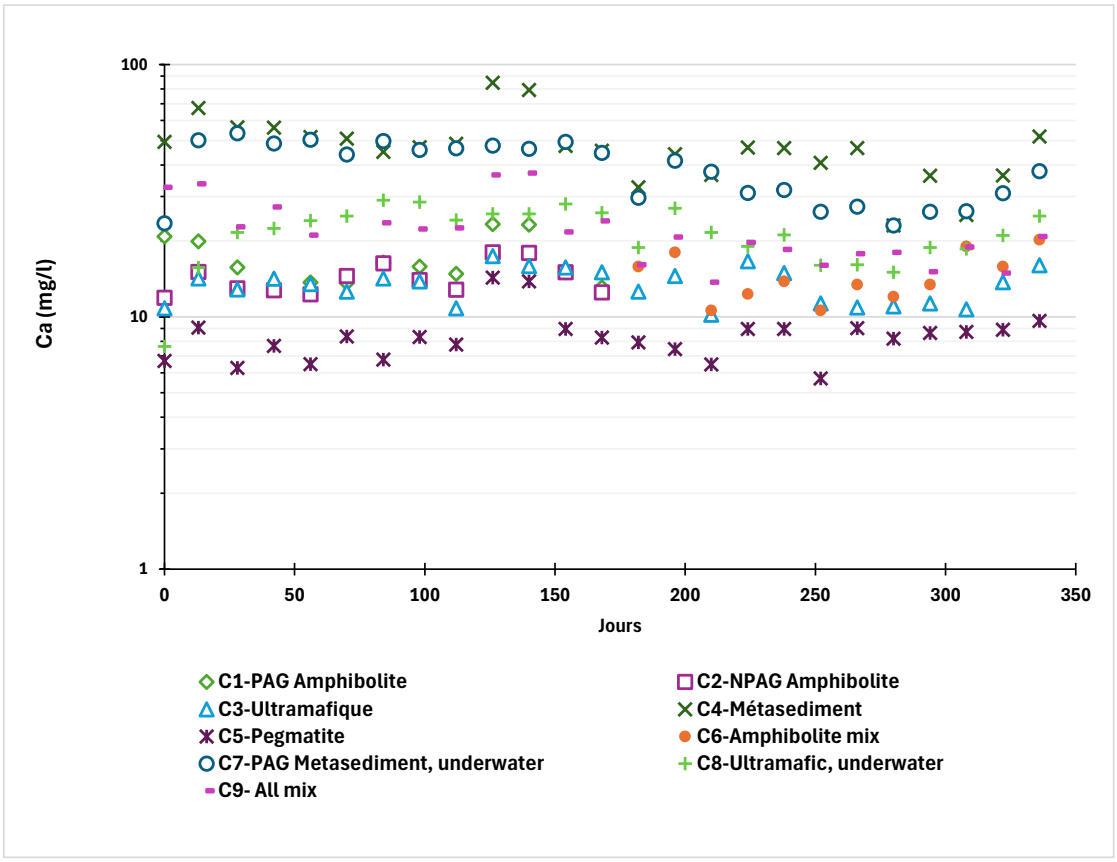

Eh (mV)
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

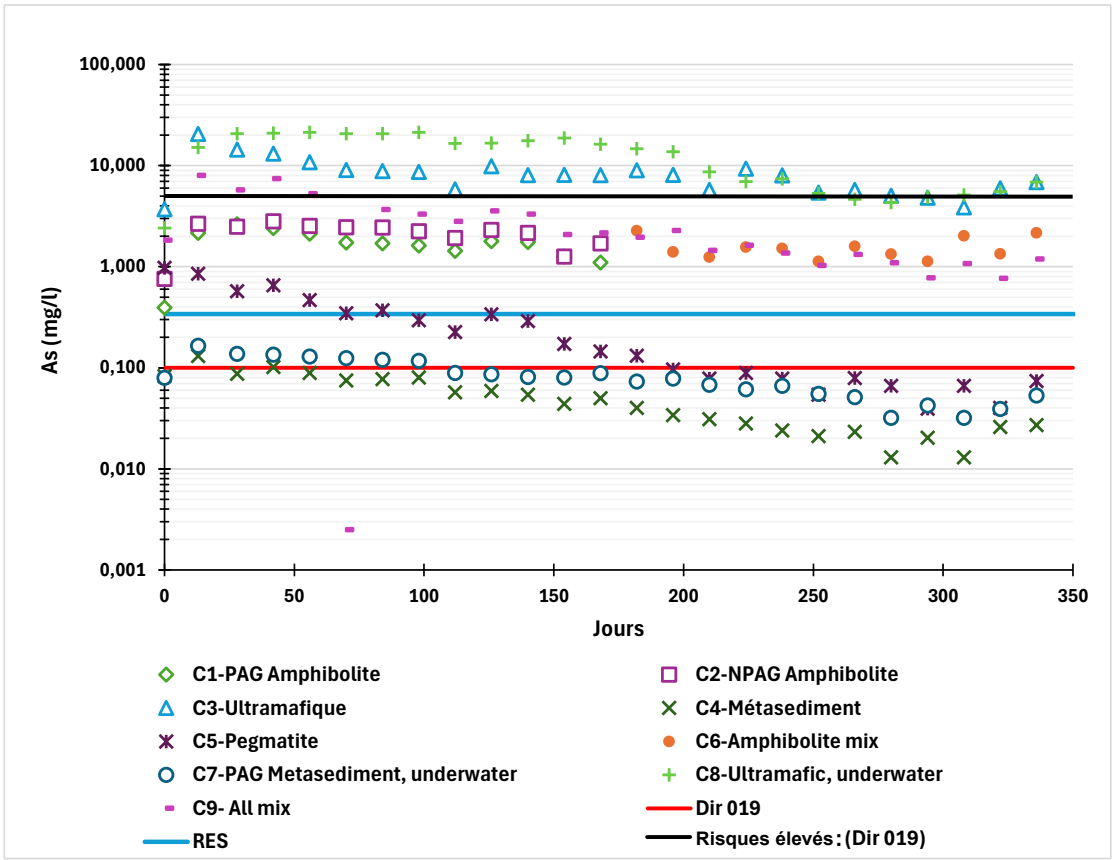

Conductivité électrique (µS/cm)
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

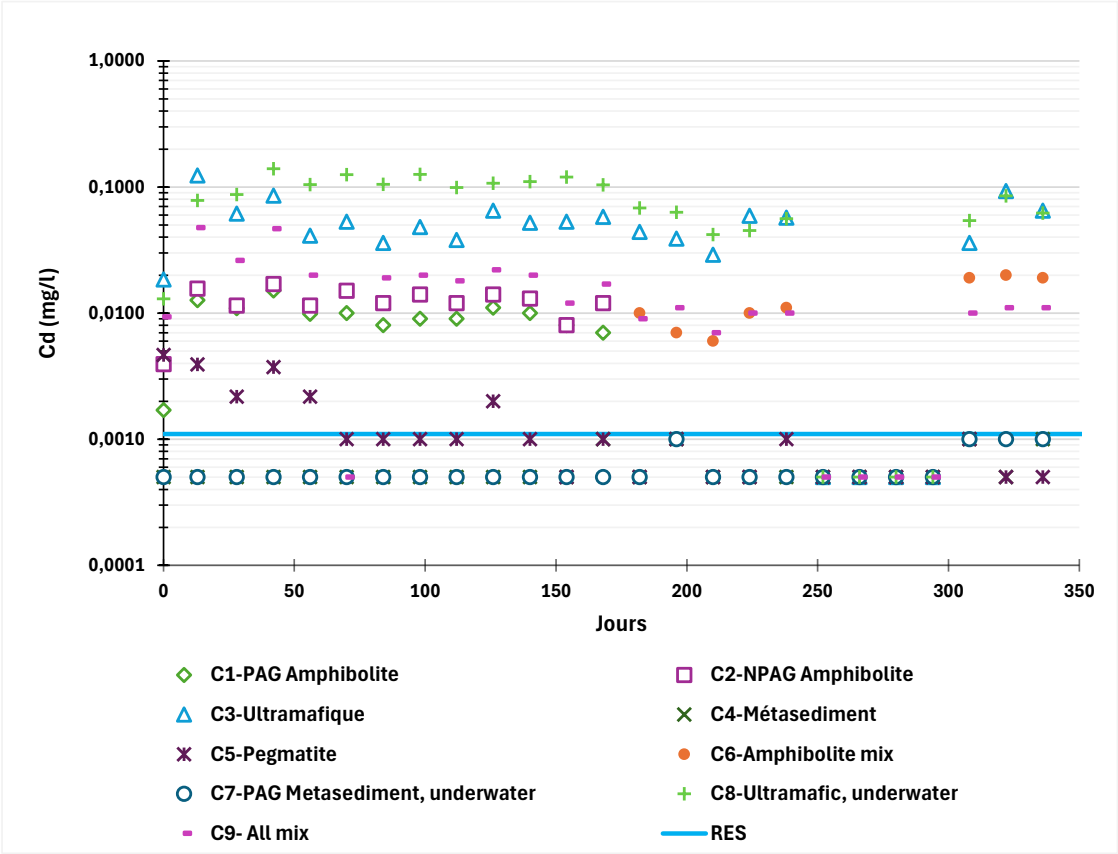

Acidité (mg CaCO3/l)
18
16
14
12
10
8
6
4
2
0
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

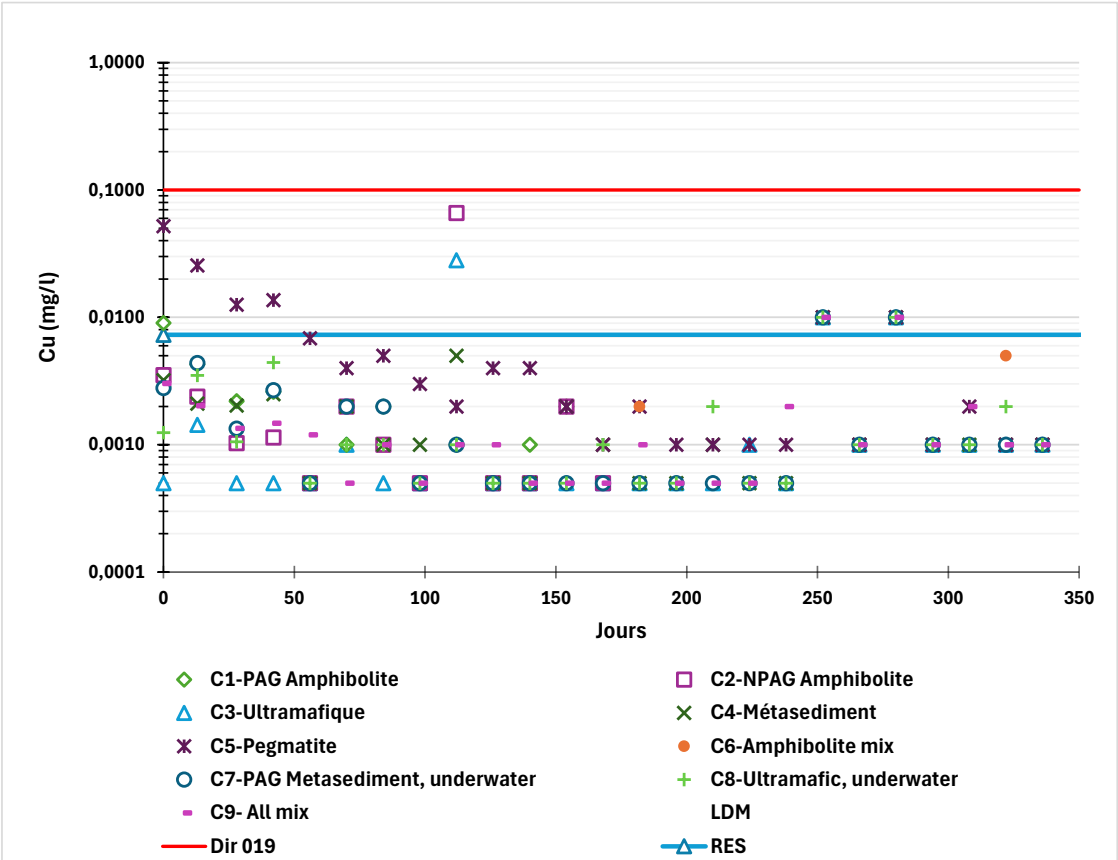

Alcalinité (mg CaCO3/l)
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

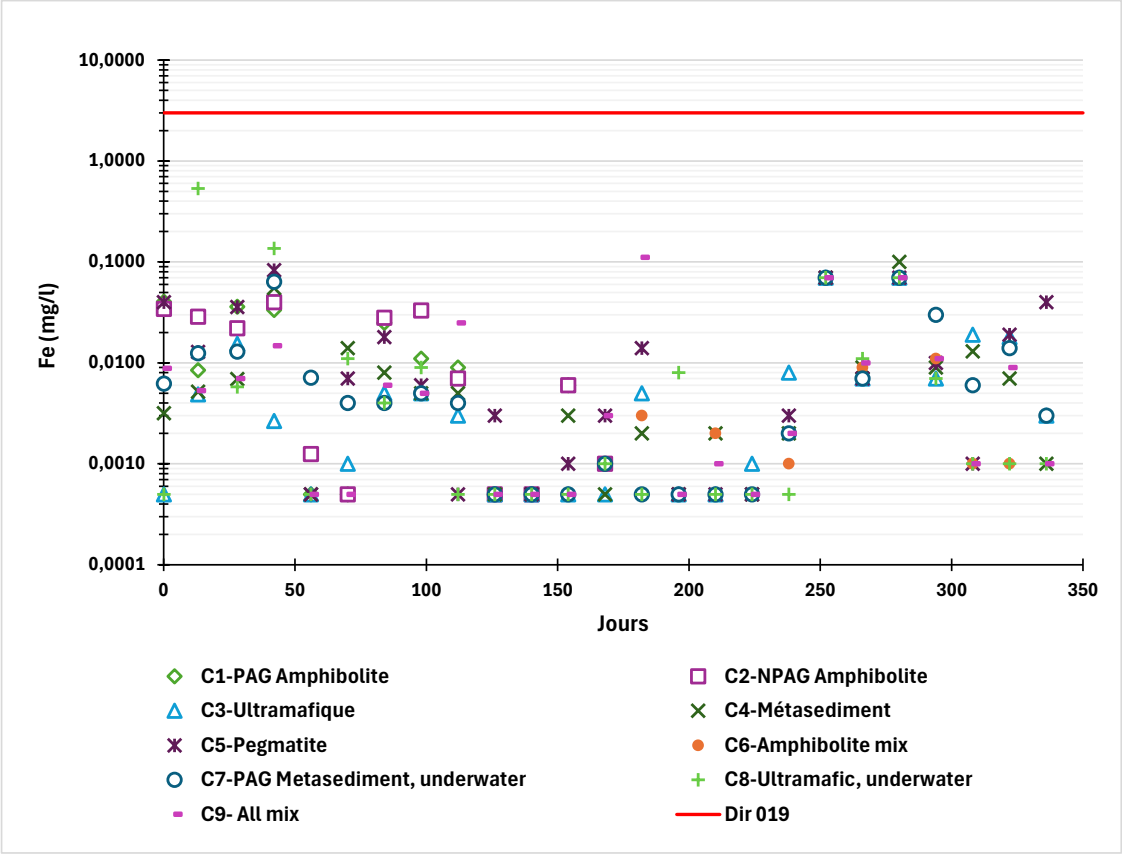

Stotal ICP (mg/l)
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

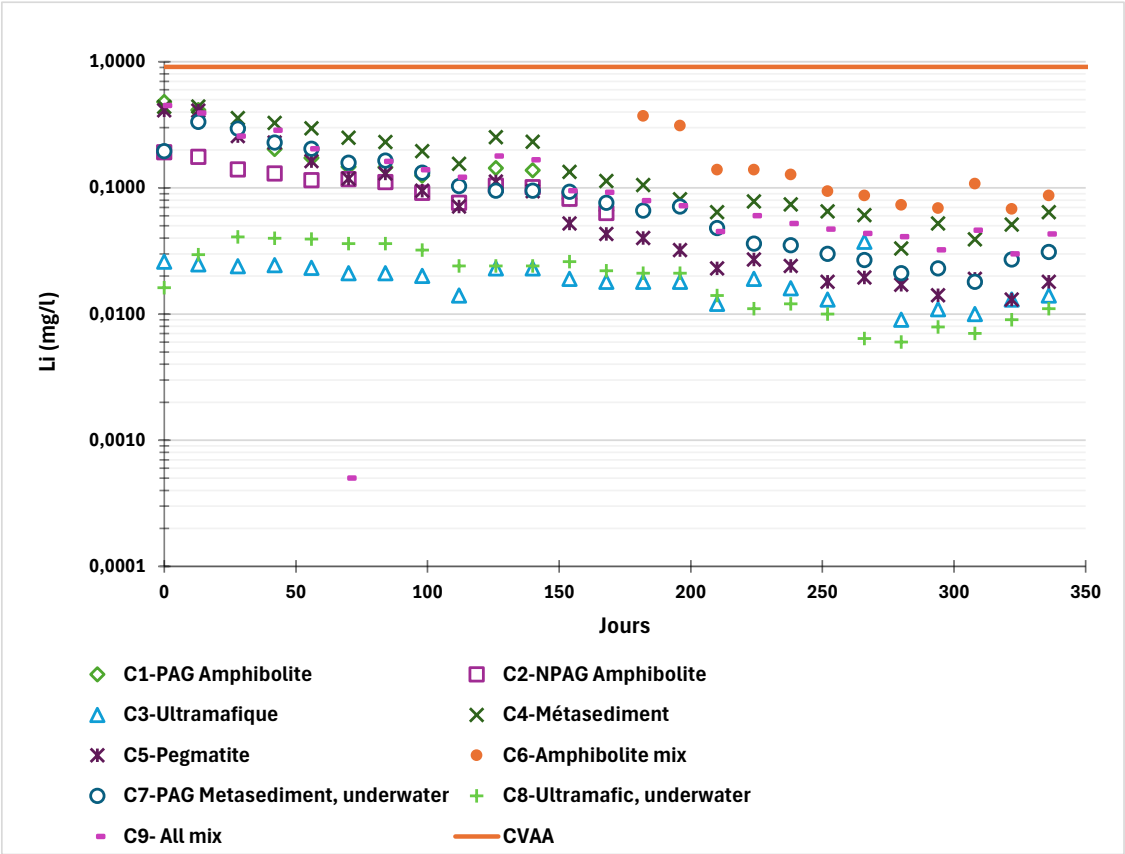

Ca (mg/l)
100
10
1
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix

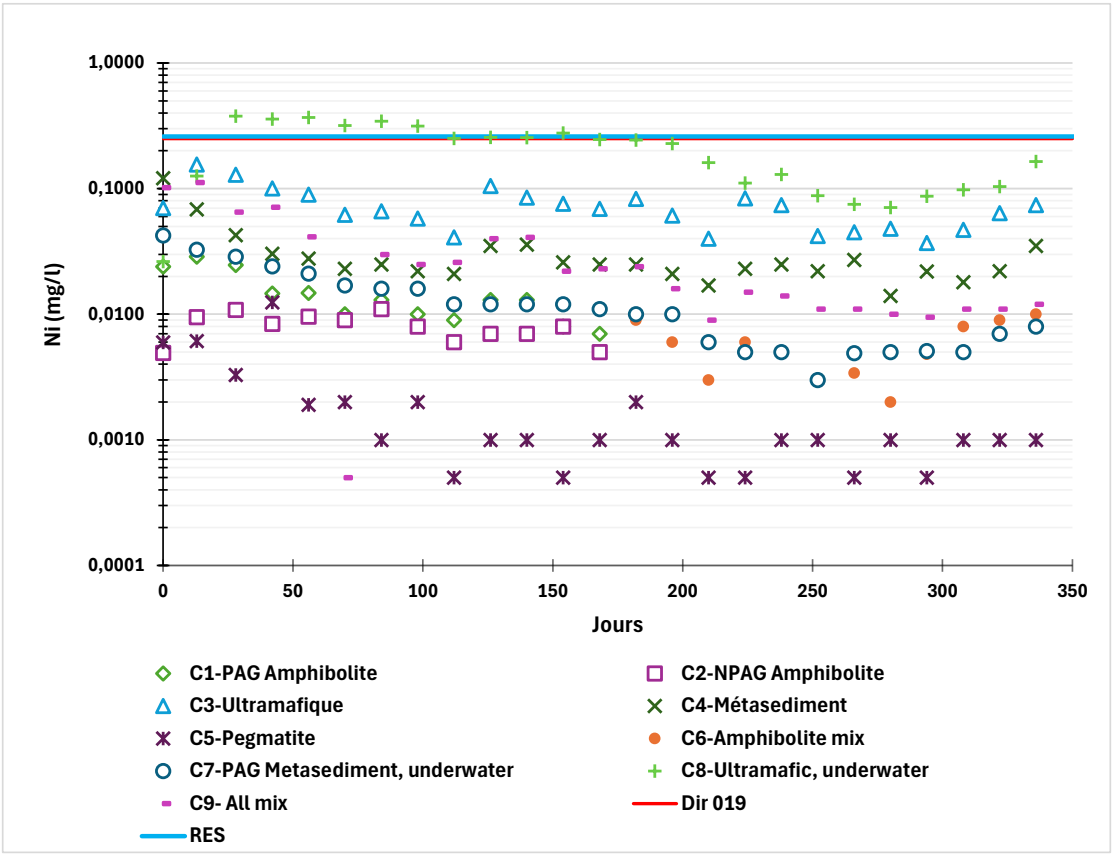

As (mg/l)
100,000
10,000
1,000
0,100
0,010
0,001
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES
Risques élevés: (Dir 019)

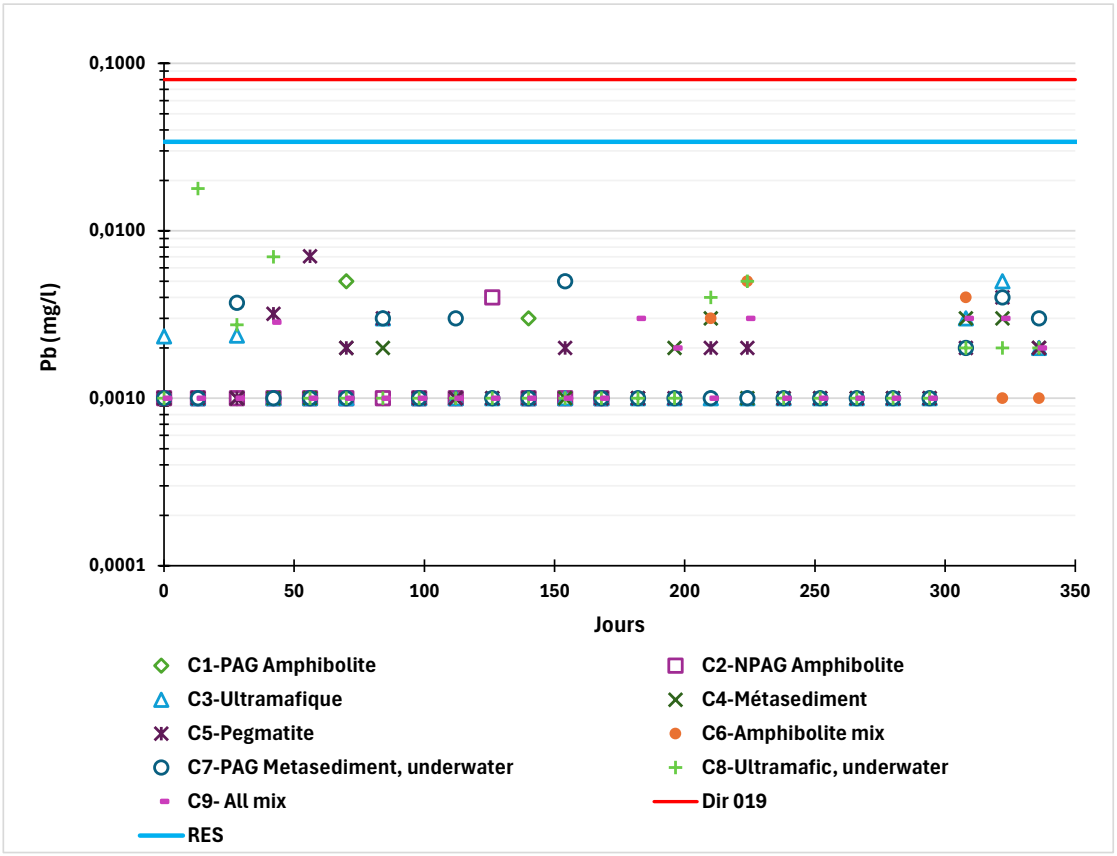

1,0000
0,1000
0,0100
0,0010
0,0001
Cd (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
RES

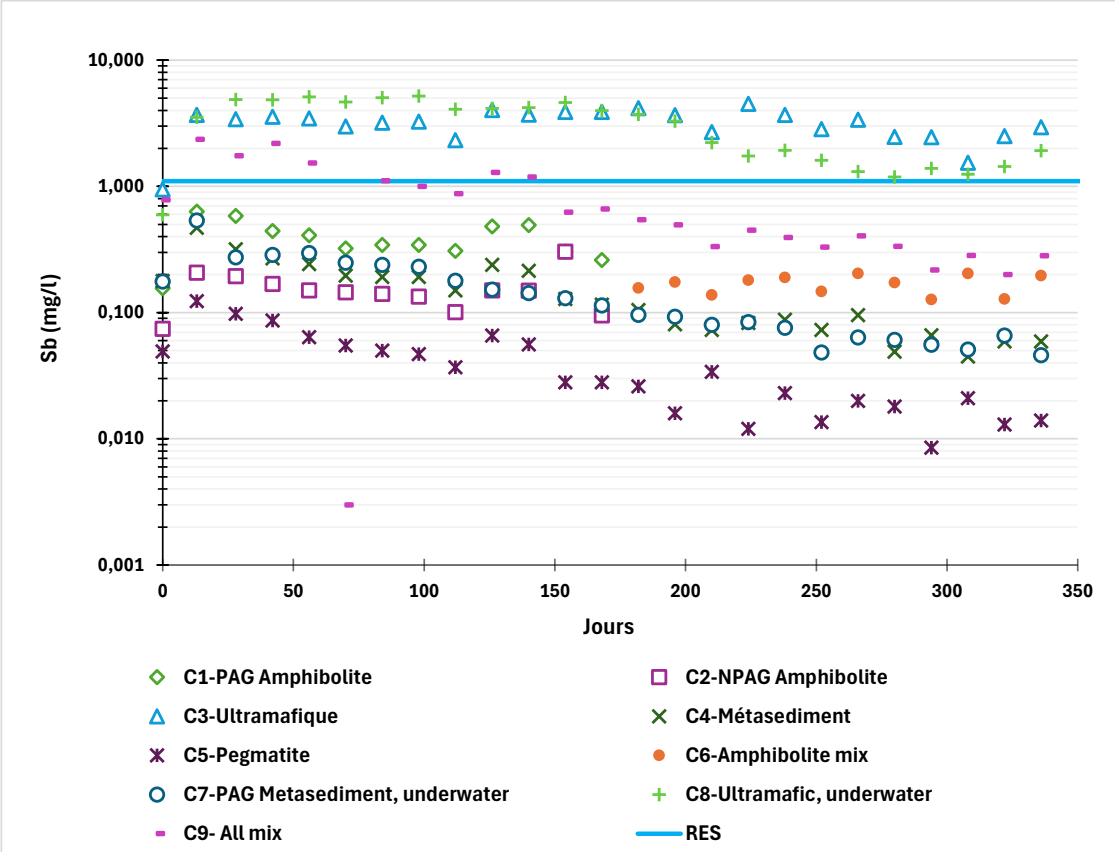

1,0000
0,1000
0,0100
0,0010
0,0001
Cu (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
LDM
Dir 019
RES

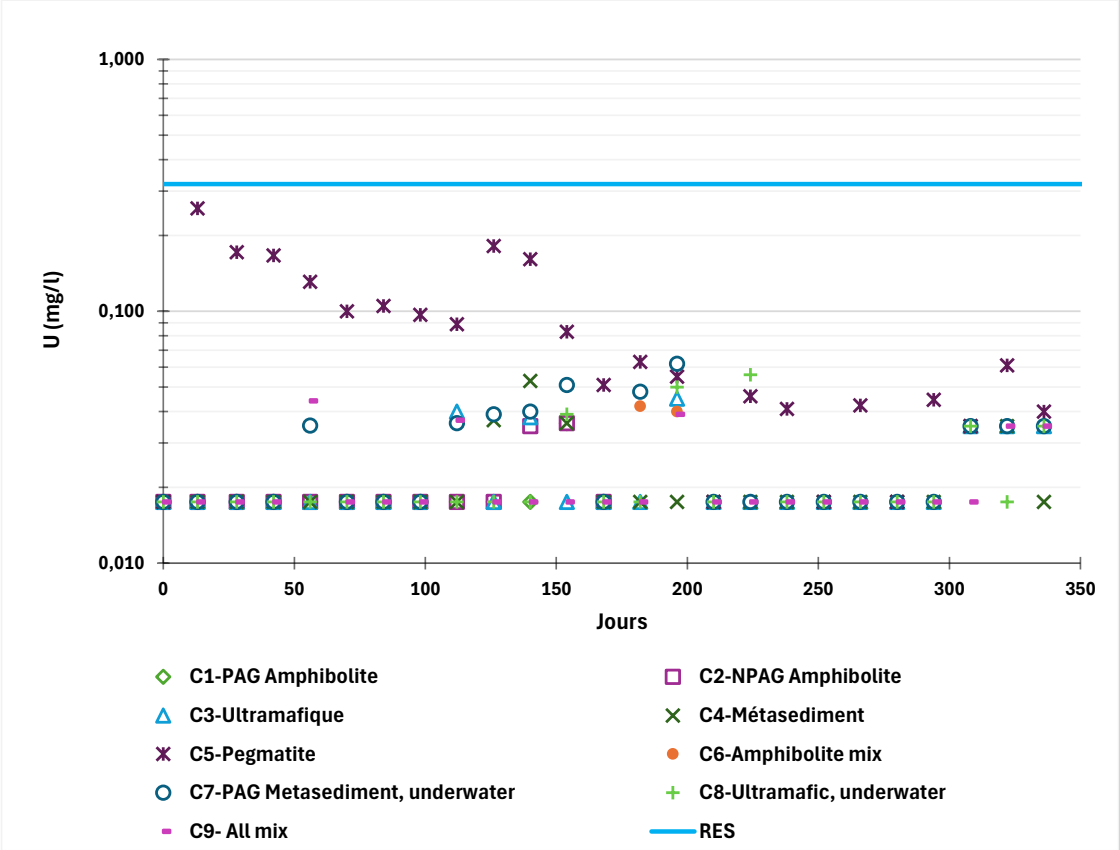

10,0000
1,0000
0,1000
0,0100
0,0010
0,0001
Fe (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019

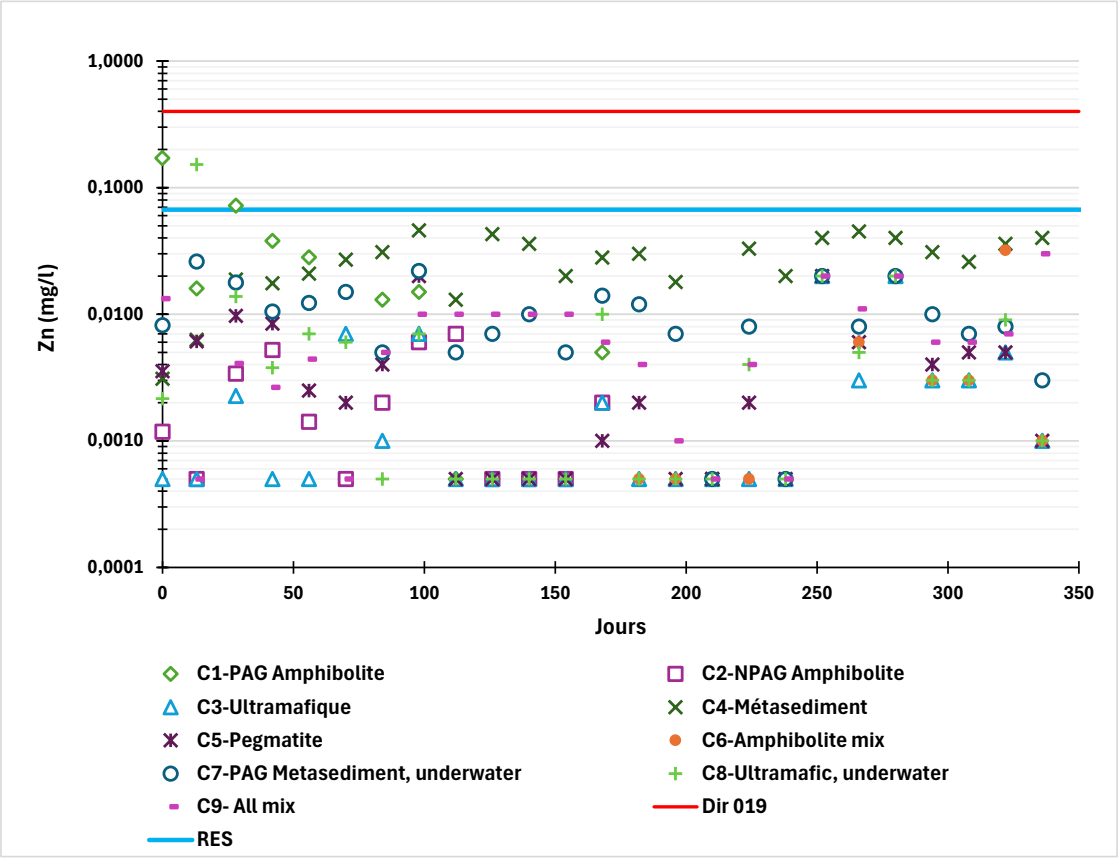

1,0000
0,1000
0,0100
0,0010
0,0001
Li (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
CVAA


1,0000
0,1000
0,0100
0,0010
0,0001
Ni (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES


0,1000
0,0100
0,0010
0,0001
Pb (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES

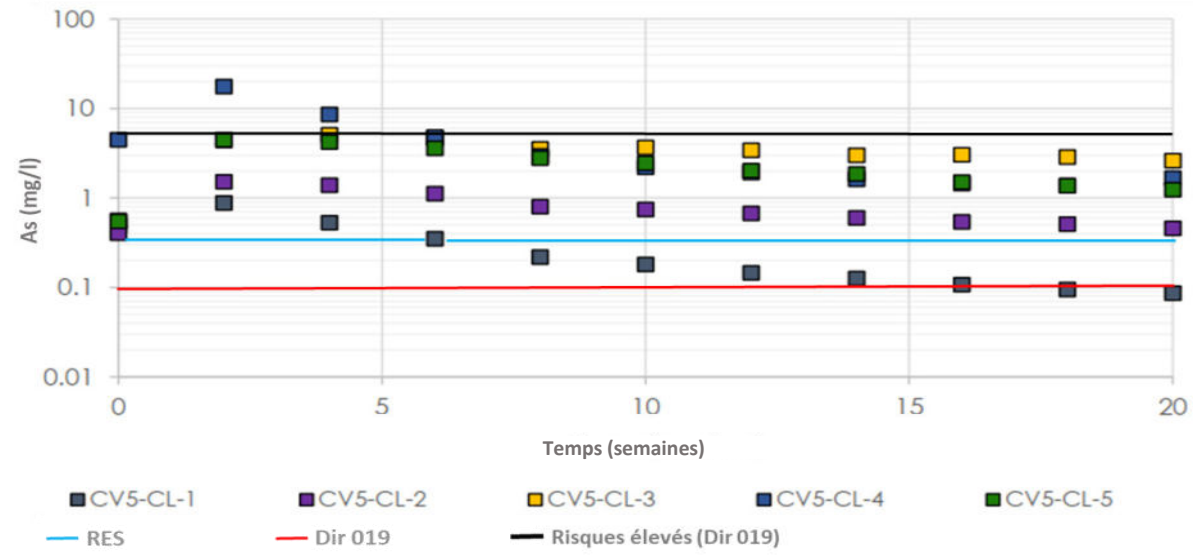

10,000
1,000
0,100
0,010
0,001
Sb (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
RES

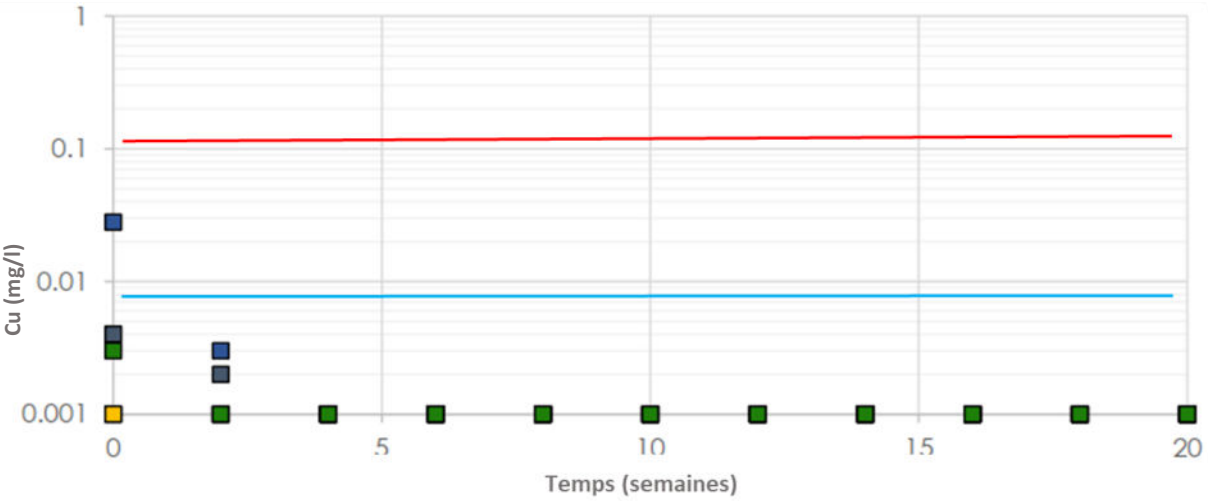

1,000
0,100
0,010
U (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
RES

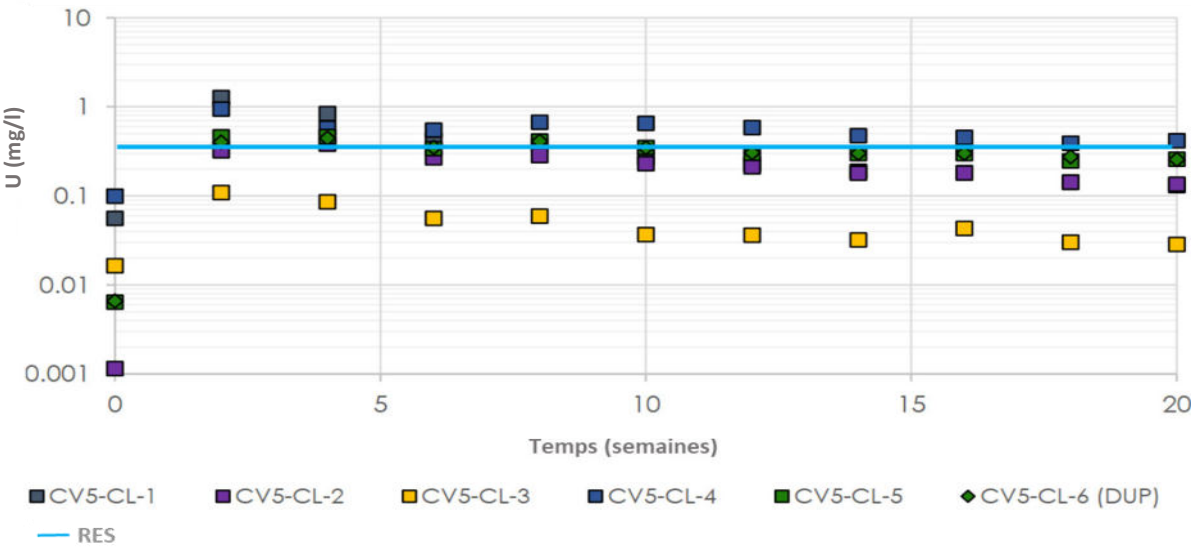

1,0000
0,1000
0,0100
0,0010
0,0001
Zn (mg/l)
0
50
100
150
200
250
300
350
Jours
C1-PAG Amphibolite
C2-NPAG Amphibolite
C3-Ultramafique
C4-Métasediment
C5-Pegmatite
C6-Amphibolite mix
C7-PAG Metasediment, underwater
C8-Ultramafic, underwater
C9- All mix
Dir 019
RES

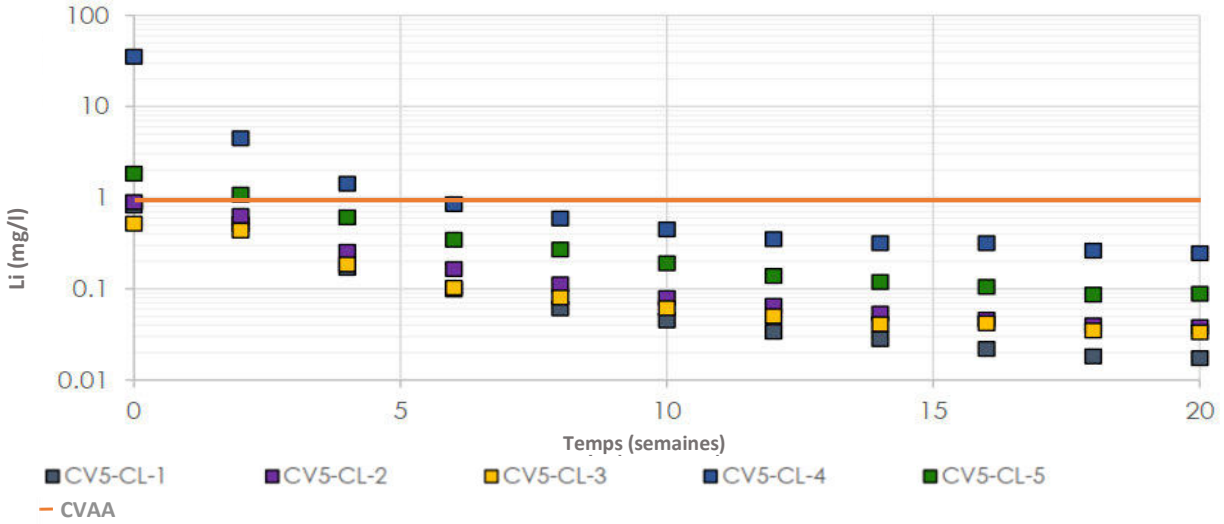
A.3 Résultats des essais en colonne – résidus miniers (Vision Geochemistry, 2025)

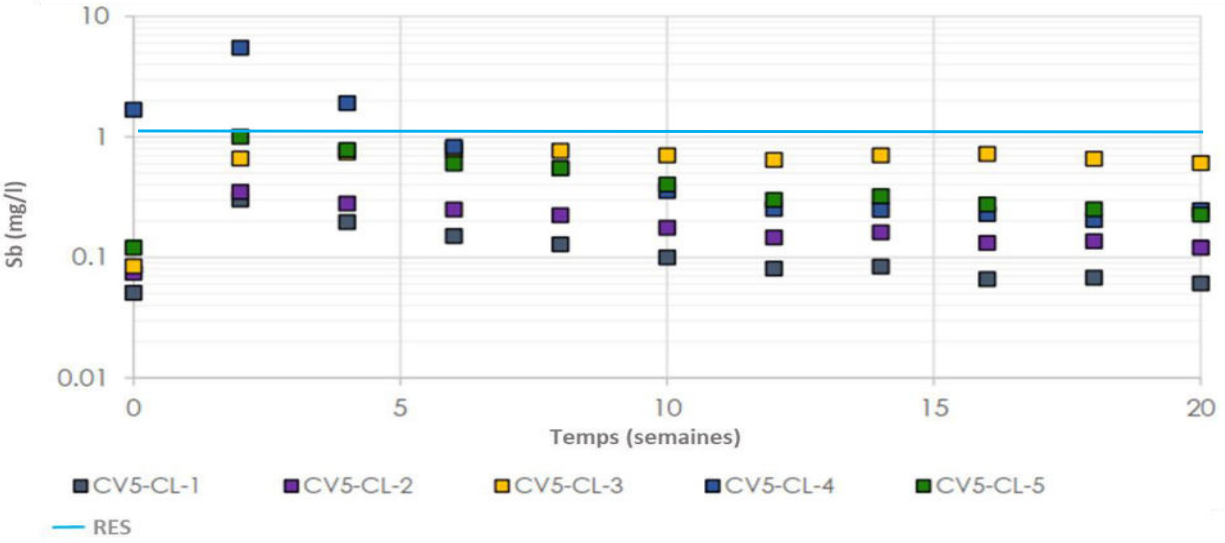
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100
10
1
0.1
0.01
As (mg/l)
0
5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES
Dir 019
Risques élevés (Dir 019)


1
0.1
0.01
0.001
Cu (mg/l)
0
5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES
Dir 019


10
1
0.1
0.01
0.001
U (mg/l)
0
5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
CV5-CL-6 (DUP)
RES


100
10
1
0.1
0.01
Li (mg/l)
0
5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
CVAA


10
1
0.1
0.01
Sb (mg/l)
0
5
10
15
20
Temps (semaines)
CV5-CL-1
CV5-CL-2
CV5-CL-3
CV5-CL-4
CV5-CL-5
RES

AtkinsRéalis
Minéraux et Métaux

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Annexe H

Étude de faisabilité : Gestion des eaux et des résidus miniers (Atkins, 2026a)

AtkinsRéalis	NOTE TECHNIQUE Rapport d'étude de faisabilité		
	Numéro de document :	**Rév.**	**Date :**
	Numéro du document : CASN-A-370-GT-REP-0001 *AtkinsRéalis : 702381-0000-40ER-0001*	C	10 février 2026

Titre du document : **ÉTUDE DE FAISABILITÉ POUR LA GESTION DES RÉSIDUS, DES STÉRILES ET DES EAUX**

Client : **PATRIOT BATTERY METALS INC.**

Projet **PROJET LITHIUM SHAAKICHIUWAANAAN**

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DN: C=CA, O=CentifiO Pro, OU=Professional Engineers Ontario, uid=100193342 + CN=Philip Charles Addis -- P.Eng. - PEO
Reason: I am the author of this document
Location:
Date: 2026.02.18 15:07:28-05'00'
Foxit PDF Editor Version: 2025.2.0

Approuvé par : Bruno Morrissette, ing. #OIQ : 125157

(F-40ER-0012-MMG-F)

Note au lecteur

Le présent rapport est une traduction de la version anglophone du rapport portant le même numéro. En cas de disparité entre ces 2 rapports, la version anglophone prime.

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Ce rapport doit être lu dans son ensemble, car des sections prises hors contexte peuvent être trompeuses. Si des divergences surviennent entre la version préliminaire (ébauche) et la version finale de ce rapport, c'est la version finale qui prévaut. Rien dans le présent rapport ne vise à constituer ou à fournir une opinion juridique.

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Liste des révisions

#	Prép.	Rév.	App.	Date	Pages	Remarques
PA	AC/GM/HT/SP	PA	BM	2025-11-03	Tous	Commentaire – Interne
PB	AC/GM/HT/SP	PB	BM	2025-11-12	Tous	Commentaire – Client
C	AC/GM/HT/SP	C	BM	2026-02-10	Tous	Émis pour étude de faisabilité

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1. Introduction

AtkinsRéalis a été mandatée par Innova, une filiale québécoise entièrement détenue par Patriot Battery Metals Inc., pour réaliser une étude de faisabilité sur la gestion des déchets et de l'eau pour le projet minier Shaakichiuwaanaan. Le site est situé dans la région d'Eeyou Istchee Baie-James, dans la province de Québec, au Canada, aux coordonnées 53°32'00" N, 73°55'00" O. Il se trouve à environ 220 km à l'est de Radisson et à environ 240 km au nord-nord-est de Nemaska. La propriété comprend 463 claims miniers, couvrant environ 23 710 hectares répartis en deux groupes principaux. Le plus grand de ces groupes s'étend de manière presque continue sur environ 51 km dans une direction est-ouest.

Le projet permettra d'extraire du spodumène d'un gisement de pegmatite à l'aide d'une méthode hybride combinant l'exploitation à ciel ouvert et l'exploitation souterraine. Au cours de la phase initiale (2029-2034), le taux de production annuel estimé sera de 400 ktpa avec une teneur de 5,5 % en concentré d'oxyde de lithium (Li_2O). Ce taux passera à 800 ktpa pendant la phase d'expansion (2031-2051). La durée d'exploitation du projet est actuellement estimée à 23 ans.

2. Informations sur le site et le projet

Le projet devrait générer environ 155,7 millions de tonnes (Mt) de stériles, 14,0 Mt de morts-terrains et 71,1 Mt de résidus à disposer. Deux types de stériles seront produits : des stériles lixiviables ou potentiellement générateurs d'acide (estimés à 81,0 Mt) et des stériles non lixiviables « à faible risque » (73,1 Mt).

Le développement de la mine à ciel ouvert est prévu en deux phases. La fosse ouest sera exploitée de 2029 à 2034, tandis que l'expansion vers l'est, appelée fosse Est, est prévue de 2034 à 2045. Les opérations minières souterraines se dérouleront de 2031 à 2051. Avant le début de l'exploitation de la fosse ouest, une digue (phase 1) sera construite dans le lac 001, ainsi qu'un fossé de dérivation. Cela permettra l'exploitation de la fosse dans la partie ouest du lac 001 et le maintien du déversement du lac 001 vers le lac 007, autour de la mine à ciel ouvert. Une seconde digue et un second fossé, situés à l'est, seront nécessaires pour l'aménagement de la fosse est. La digue et le fossé de dérivation maintiendront le niveau d'eau du lac 001 à son élévation actuelle d'environ 373 mètres au-dessus du niveau de la mer (m.a.s.l.) et détourneront l'eau autour du périmètre nord de la fosse.

La figure 2 présente un plan général du site. Les composantes et activités du projet sur le site comprendront la construction, l'exploitation, puis éventuellement le déclassement et la fermeture des éléments clés suivants :

- Les fosses à ciel ouvert ouest et est ;
- La mine souterraine ;
- Les infrastructures de traitement des minéraux et les bâtiments du site ;
- La halde 001, contenant des stériles à faible risque, ainsi que les fossés et le bassin de stockage associés ;
- La halde 002, contenant des stériles à faible risque, des résidus filtrés et des stériles potentiellement générateurs d'acide, ainsi que les fossés et bassins associés ;
- Les haldes 004 et 005 contenant des morts-terrains ;
- Deux haldes de disposition de matières organiques et de terre végétale ;
- Des haldes de disposition de minerai à faible teneur ;
- Un bassin de polissage ;
- Deux bassins de sédimentation ;
- Une station de traitement d'eau ;
- Des routes d'accès ;
- Lignes électriques/de transport d'électricité ;
- Un camp minier ; et
- D'autres infrastructures et équipements auxiliaires.

3. Études complémentaires

3.1 Études et rapports antérieurs

Les études et rapports antérieurs relatifs à la gestion des résidus et de l'eau sont répertoriés ci-dessous :

- Patriot Battery Metals : *Site selection study for waste disposal* (terminée mais non examinée par AtkinsRéalis) ;
- Études géotechniques et rapports :
  - BBA, 2024. *Technical Report Geotechnical Campaign for Phase 1 Diversion Dams*, 7535009-000000-4G-ERA-0001-RAA;
  - BBA, 2024. *Technical Report Geotechnical Campaign for Phase 2* (factual), 7535009-020001-4G-ERA-0003-RAA, and;
  - BBA, 2024. *Technical Report Factual Report of 2024 Geotechnical Diamond Drill Investigation*, CV5 Site, 75350179-000000-4M-ERA-0003-R00.

Les études géotechniques et le rapport factuel comprennent 22 forages dans les emplacements proposés pour les haldes 001 et 002, ainsi que 6 forages dans la zone de l'usine de traitement. On compte également, 11 forages dans le lac 001 et à l'emplacement proposé prévu du fossé de dérivation, ainsi qu'un forage à l'emplacement des aires temporaires de stockage du mort-terrain.. Des essais en laboratoire ont aussi été réalisés (analyse granulométrique, teneur en eau, limites d'Atterberg, densité relative, résistance à la compression simple de la roche en place).

Des études géochimiques, de gestion de l'eau et d'hydrogéologie ont également été réalisées et examinées dans le cadre de l'étude de faisabilité. Les principales références sont les suivantes :

- *Analysis and* Interpretation of the CV5 Static and Kinetic Geochemistry Characterization Results – Technical Report submitted by BBA on May 23, 2024. Reference 7535001-000500-4E-ERA-0001 R00;
- Geochemical Modelling of Arsenic Leaching Risk for CV5 Waste Rock Stockpiles – Technical Report submitted by BBA on July 3rd, 2024. Reference 7535001-003200-4E-ERA-0001-R00;
- Geochemical Characterization of Mine Waste Materials & Modelling of Waste Rock Stockpiles for the Shaakichiuwaanaan Project (CV5 Pegmatite): Feasibility Study Update. Preliminary report submitted by Vision Geochemistry, 27 September 2025. Ref. 2405007-TR1;
- Water Management Plan and Water Diversion – Technical Report submitted by BBA on September 11, 2024. Reference 7535006-014000-41-ERA-0002-R00;
- Hydrogeological Baseline Study – Future Open Pit CV5, Corvette Lithium property – Technical report submitted by BBA on September 23, 2024, reference 7535001-001900-41-ERA-0002-R00;
- Hydrogeological Characterisation – CV5 mining site Shaakichiuwaanaan Lithium Property submitted by BBA on July 4, 2025. Reference 753019-000000-41-ERA-0002-R00;
- Packer Testing Factual Report – Technical report submitted by BBA on July 9, 2025. Reference 7535019-000000-41-ERA-0001-R00;
- Hydrogeological characterisation – Water supply well, Shaakichiuwaanaan Lithium Property submitted by BBA on July 9, Reference 20257535019-000000-41-ERA-0003-R00.

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En outre, d'autres informations ont été fournies et examinées :

- Le levé aérien du site avec une précision de +/- 0,5 m ;
- Le plan général de l'infrastructure du site fourni par G-Mining (révision du 5 mai 2025) ;
- L'enveloppe de la fosse à ciel ouvert et la mine souterraine ont été fournies par G Mining le 5 mai 2025 ;
- Les données LiDAR, la bathymétrie et le modèle numérique d'élévation (MNE) du Canada (RNCan, 2011) La bathymétrie des lacs 001 et le lac 027 ;
- Les cartes de géologie de surface fournies par le ministère des Ressources naturelles et des Forêts (https://www.donneesquebec.ca/recherche/fr/dataset/carte-des-depots-de-surface-du-nord-quebecois) ;
- Le modèle géologique fourni par PB Metals le 6 novembre 2024 ;
- La géologie structurale (failles, joints et autres structures) a été fournie dans le modèle géologique de PB Metals en date du 25 janvier 2025. La nature hydrogéologique des failles et des joints a été déterminée à l'aide du RDQ et de la description géologique ;
- Les données sismiques provenant du Code national du bâtiment du Canada (CNBC) ;
- La prise d'eau douce située au lac 317, au nord-est de l'usine de traitement ;
- Les critères de conception du procédé (Primero, 2024) ;
- Les données de base disponibles, telles que les contraintes environnementales, les écosystèmes sensibles et uniques, les plans d'eau de surface, les limites de propriété, les ressources minérales et les claims miniers. Toutes ces informations ont été intégrées dans un système d'information géographique, et
- Le rapport PEA: Highlights Shaakichiuwaanaan Project as a Potential North American Lithium Raw Materials Supply Base. Patriots Battery Metals Inc. August 2024.

3.2 Météorologie

Dans la région de Shaakichiuwaanaan, la température annuelle moyenne est d'environ -3,1 °C. Les précipitations annuelles moyennes sont de 772 mm, dont 518 mm de pluie et 254 cm de neige. L'évaporation annuelle moyenne du lac est de 421 mm, et l'évapotranspiration maximale dans des conditions moyennes est de 390 mm. Des informations plus détaillées sont disponibles dans le rapport d'hydrologie de base (AtkinsRéalis, 2025c).

Les données climatiques, incluant les précipitations, les chutes de neige, les pluies et les températures, ont été obtenues à partir des données disponibles pour quatre stations météorologiques d'Environnement Canada (EC) :

- Station La Grande IV (ID de la station : 7093GJ5) ;
- Station La Grande IV A (ID de la station : 7093GJ3) ;
- Station La Grande 4 A (ID de la station : 7093714) et
- Station Nitchequon (ID de station: 7095480).

Ces informations ont été recueillies et traitées afin d'établir l'hydrologie de base du projet (AtkinsRéalis, 2025c).

3.3 Géologie

La propriété Shaakichiuwaanaan, située dans la province archéenne du Supérieur constituant le Bouclier canadien, se trouve dans la sous-province de La Grande, près de la sous-province d'Opinaca, et est réputée pour son fort potentiel d'exploration de matières premières, notamment les métaux de base, les métaux précieux et le lithium (PEA, 2024). La sous-province de La Grande, véritable merveille géologique présente une structure volcanique plutonique alignée avec le corridor Wemindji-Caniapiscau. Elle comprend deux domaines principaux, la ceinture de la rivière Eastmain et la ceinture de la rivière La Grande, chacun présentant des caractéristiques géologiques uniques (PEA, 2024).

La propriété est située dans la ceinture de la rivière La Grande, caractérisée par des roches volcaniques et sédimentaires, dont deux anciennes séquences volcaniques et des métasédiments interstratifiés (PEA, 2024). La sous-province de La Grande est limitée au nord par la sous-province plutonique de Bienville et au sud par la sous-province métasédimentaire et plutonique d'Opinaca (Lucas & St-Onge, 1998 ; Houle, 2004 ; Percival, 2007). Les sous-provinces de La Grande et d'Opinaca contiennent de nombreux gisements connus de pegmatite à spodumène au Québec (PEA, 2024).

Le métamorphisme dans la région varie du faciès schiste vert dans le centre au faciès amphibolite aux marges (Card, 1986 ; Houle, 2004). Les tendances structurelles passent d'est-ouest dans le sud-ouest à nord-est-sud-ouest dans le nord, principalement formées entre 2700 et 2680 Ma (Percival et al., 2012). La région n'offre pas seulement un potentiel de minéralisation, elle a déjà donné lieu à des découvertes importantes. Elle contient d'importants gisements de nickel-cuivre associés à des coulées komatiitiques, des intrusions ultramafiques et des gisements notables de pegmatite à spodumène (PEA, 2024). *Regional Bedrock Geology*.

3.4 Géotechnique

Une étude géotechnique du site et un rapport factuel ont été réalisés en 2023 et 2024 (BBA, 2025). L'étude a porté sur les deux sites des haldes à stériles, la zone industrielle et le lac 001. Des forages de condamnation ont été réalisés dans les superficies des haldes 001 et 002. L'étude pour la halde 001 comprenait 19 forages, des échantillonnages et des analyses en laboratoire. Le profil du sol pour la halde 001 est résumé ci-dessous :

- Des matières organiques sont présentes sur l'ensemble de l'emprise, avec une épaisseur allant de 0,1 à 0,9 m (0,4 m en moyenne), la plus grande profondeur se trouvant au centre de l'emprise. Les matières organiques reposent directement sur le roc à l'extrémité est de l'emprise.
- Le ML (horizon de sol composé de limon/limon sableux/limon avec gravier) n'est présent qu'à l'extrémité ouest de la superficie, à des profondeurs allant de 0,8 à 1,4 m sous le niveau du sol, recouvrant le GM et les galets/gravier ;
- Le SM (horizon de sol composé de sable limoneux/sable limoneux avec gravier est présent uniquement dans les parties nord et sud de l'emprise (absent au centre), reposant sur des galets/graviers ou le roc. Cet horizon se rencontre à des profondeurs variant de 0,9 à 3,1 m sous la surface, la plus grande profondeur se situant dans le coin nord-est de l'emprise ;
- Le GM se trouve dans certaines zones à l'extrémité ouest et au centre de l'emprise (généralement sur une épaisseur de 1 m). Il est surmonté par ML à l'ouest et par des organiques au centre, et repose sur des galets/graviers ;

- Les galets/graviers sont généralement présents sur l'ensemble de l'emprise, à l'exception de la limite est, où ils reposent directement sur le roc;
- La profondeur du roc varie entre 0,6 et 5,7 m sous la surface ; l'élévation du roc varie entre 360 et 392 m au-dessus du niveau de la mer. Il présente une pente générale vers le nord-ouest ; la plus grande profondeur se trouve à l'ouest et la plus faible à l'est ;
- Les niveaux d'eau souterraine varient de 0,13 à 0,51 m sous la surface. En fonction des variations topographiques, les élévations de la nappe varient de 365 à 389 m (NGV).

L'étude réalisée pour la halde 002 comprenait 12 forages, des prélèvements d'échantillons et des essais en laboratoire. Les conditions du sol rencontrées dans l'emprise de la halde 002 sont variables et se décrivent comme suit :

- Des matières organiques sont présentes sur l'ensemble de l'emprise, avec une épaisseur variant entre 0,1 et 1,5 m (moyenne de 0,4 m). La profondeur varie avec une dépression localisée dans le coin sud-ouest, à l'emplacement du bassin de collecte 04 ;
- Le ML (horizon de sol composé de limon/limon sableux/limon avec gravier) a été rencontré uniquement dans la partie nord-est de l'emprise, jusqu'à une profondeur de 1,8 m sous la surface, recouvrant du SM, du GM et des galets/gravier ;
- Le SM (horizon de sol composé de sable limoneux/sable limoneux avec gravier) a été rencontré sur l'ensemble de l'emprise, reposant sur GM, et/ou des galets/graviers, et le roc. Cet horizon se rencontre à des profondeurs variant de 0,5 à 13,4 m sous la surface, en fonction de la topographie du socle, la plus grande profondeur se situant au centre de l'emprise de la halde ;
- Le GM (horizon de sol composé de gravier limoneux avec du sable/gravier avec du limon et du sable) a été rencontré dans certaines zones près du centre de l'emprise et à sa bordure est. Il est surmonté par SM et repose sur des galets/graviers et le roc. La profondeur et l'épaisseur de cet horizon varient selon l'emprise ; Des galets/gravilers ont été rencontrés dans certaines zones près du centre et à son extrémité est.
- La profondeur du roc dans la halde varie entre 0,3 et 18,8 m sous la surface du sol; l'élévation de la surface du roc varie entre 374 et 440 m au-dessus du niveau de la mer. Le roc atteint son altitude maximale au centre de la partie est de l'emprise et son altitude minimale au centre de la partie ouest.
- Les niveaux d'eau souterraine varient de 2,08 à 3,07 m sous la surface. En fonction des variations topographiques, les élévations e la nappe varient de 393 à 418 m (NGV)

La zone industrielle comprend l'usine de traitement, l'usine de pâte à remblai, le camp permanent, le poste électrique et l'usine de traitement des eaux. L'étude réalisée pour cette zone a inclus 9 forages, des prélèvements d'échantillons et des essais en laboratoire. Les profils de sol sous-jacents aux emprises prévues pour l'usine de traitement et les infrastructures associées indiquent que l'unité de sol principale influençant les considérations de fondation est un sable non cohésif graveleux, compact à dense (symbole USCS : SM), rencontré à faible profondeur. Le roc se trouve généralement à faible profondeur, mais présente une dépression à la limite sud-est de l'emprise de l'usine de traitement.

Il n'existe aucune information sur le profil du sol ou sur les caractéristiques géotechniques à l'emplacement de l'usine de traitement des eaux proposée. Selon les données des forages géotechniques situés à proximité (moins de 250 m), il est prévu que l'unité de sol principale influençant les considérations de fondation soit la même que dans le reste de la zone industrielle. Le roc pourrait être rencontré à environ 5 m sous la surface. Pour les phases ultérieures de la conception, il est recommandé de réaliser des forages géotechniques dans l'emprise couvrant l'usine de traitement des eaux.

3.5 Géochimie

Une étude géochimique a été menée (Vision, 2025) sur les matériaux générés par les activités minières, principalement les résidus provenant du traitement du minerai ainsi que les stériles. Les essais ont été conçus pour évaluer les échantillons conformément aux directives du MELCCFP, notamment le *Guide de caractérisation des résidus miniers et du minerai* (MELCC, 2020), désormais sous la responsabilité du MELCCFP (*Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs).*

Selon les résultats, les contaminants anticipés ainsi que leurs concentrations dans les effluents provenant des différents amas de minerai, des résidus et des stériles ont été rapportés (Vision, 2025). Ces concentrations sont présentées dans les sections portant sur le traitement des eaux. De plus, le communiqué conforme au NI 43-101 (PMET, 2025a) fournit une classification des résidus et des stériles.

Les résidus ont été classés comme non potentiellement générateurs d'acide (Non-PGA), mais susceptibles de présenter un risque de lixiviation des métaux (LM) conformément aux lignes directrices du MELCCFP.

Au total, 26,7 % des échantillons de stériles ont été classés comme potentiellement générateurs d'acide (PGA). En conséquence, un protocole de ségrégation a été recommandé afin d'atténuer les risques associés aux matériaux PAG. Deux catégories de stériles ont été identifiées : l'une classée comme PGA et LM, et l'autre comme Non-PGA et Non-LM.

La halde 001 et le dépôt dans la fosse contiendront des stériles non potentiellement générateurs d'acide et non lixiviables (NON-PGA et NON-LM). La halde 002 stockera les stériles potentiellement générateurs d'acide/lixiviables (PGA et LM) et les résidus non PGA et LM.

3.6 Hydrogéologie

L'hydrogéologie de base a été élaborée à partir d'informations accessibles au public et d'études de terrain réalisées en 2023 et 2024. L'ensemble des données a été compilé afin de déterminer les différentes unités hydrostratigraphiques, d'évaluer leurs propriétés hydrauliques globales, ainsi que le régime d'écoulement et la qualité des eaux souterraines.

Le site est entouré de plans d'eau tels que des lacs et des zones marécageuses, et la topographie est généralement plane, avec de petites collines telles que des drumlins et des affleurements rocheux.

Deux unités hydrogéologiques sont présentes sur le site : l'unité des morts-terrains et l'unité du roc. L'unité de morts-terrains est discontinue dans la zone d'étude et son épaisseur varie de 0 m à 58 m, mais elle se situe généralement autour de 8 m lorsqu'elle est présente. Elle est constituée d'une mince couche de matière organique surmontant un till non différencié ou des drumlins. Le till est principalement composé de sable silto-argileux, de limon ou de sable, avec parfois du gravier et des traces d'argile, devenant plus graveleux en profondeur. Les morts-terrains sont aquifères, mais en raison de leur caractère discontinu, ils ne sont pas considérés comme un aquifère à grande échelle. L'unité de roc est généralement constituée d'amphibolite grise et verte en alternance, de wacke et d'intrusions pegmatitiques. Le RQD indique que la roche est généralement de bonne qualité et faiblement fracturée. Le roc affleure à plusieurs endroits dans la zone d'étude.

En 2024, le niveau des eaux souterraines dans les morts-terrains se situait généralement entre 0,1 et 2,7 m sous la surface du sol (bgs). Les niveaux des eaux souterraines dans le roc varient entre 0,1 et 3,1 m sous le niveau du sol, avec deux endroits atteignant plus de 7 m sous le niveau du sol. L'écoulement des eaux souterraines dans les morts-terrains et le roc peu profond suit la topographie, les eaux souterraines s'écoulant généralement des points élevés, qui agissent comme des zones de recharge, vers les lacs et les zones humides. En général, les eaux souterraines s'écoulent vers les lacs 001 et 027. Le gradient hydraulique vertical entre les deux unités est descendant dans les points élevés de la topographie, où se trouvent les eaux souterraines, et ascendant dans les autres zones et sous le lac 001. Une variation saisonnière préliminaire a été évaluée dans trois forages, montrant que le niveau le plus élevé des eaux souterraines était généralement atteint en mai et juin, pendant la crue printanière.

La conductivité hydraulique des morts-terrains a été évaluée à l'aide de diverses méthodes d'essai hydraulique, telles que l'essai d'infiltration dans la zone vadose et les essais de charge croissante et décroissante dans la zone saturée. La conductivité hydraulique de la zone vadose varie entre $1,6 \times 10^{-6}$ et $4,1 \times 10^{-5}$ m/s, tandis que celle dans les morts-terrains saturés variait entre $2,9 \times 10^{-8}$ $3,9 \times 10^{-6}$ m/s, avec une moyenne géométrique de $1,1 \times 10^{6}$ m/s

La conductivité hydraulique du roc a été évaluée à l'aide d'essais de Lugeon, où des intervalles spécifiques ont été testés, ainsi que d'essais de charge et de décharge et d'essais de pompage. La conductivité hydraulique géométrique du roc est de $5,8 \times 10^{-8}$ m/s, avec un maximum de $2,0 \times 10^{-6}$ m/s et un minimum de $8,6 \times 10^{-10}$ m/s. Aucune corrélation n'a pu être établie entre l'indice RQD et la conductivité hydraulique, ce qui suggère que l'écoulement dans le roc est dominé par des caractéristiques discrètes qui ne sont pas captées par les mesures du l'indice RQD. Les résultats des essais Slug et Packer suggèrent que la conductivité hydraulique dans le roc diminue avec la profondeur.

Deux campagnes d'échantillonnage des eaux souterraines ont été menées dans six puits d'observation dans la fosse CV5 proposée et dans 15 puits d'observation dans l'emprise des haldes proposées. Les eaux souterraines sont de type bicarbonate de magnésium et dépassent les critères de potabilité pour les métaux suivants : arsenic (eaux souterraines du roc uniquement), manganèse, molybdène et antimoine, ainsi que les critères de ruissellement dans les eaux de surface pour le cuivre. Plusieurs dépassements des critères applicables à l'eau potable ont été également constatés pour l'azote ammoniacal et les sulfures.

4. Critères de conception

Les critères de conception pour la gestion de l'eau et des résidus sont présentés en détail dans le rapport d'AtkinsRéalis (AtkinsRéalis, 2025c) (voir **Annexe A**). Les critères le plus pertinents sont présentés dans les sections suivantes.

4.1 Gestion des résidus et des stériles

4.1.1 Données d'exploitation

Les données d'exploitation sont nécessaires pour dimensionner les installations de résidus et de stériles et modéliser les flux (bilan hydrique). Les données clés fournies par Patriot Battery Metals et les essais en laboratoire effectués sont présentées ci-dessous :

- Durée d'exploitation de la mine est de 22 ans ;
- Capacité de l'usine : augmentation de 2,5 Mtpa pour la phase1 (usine DMS) à 5,0 Mtpa pour la phase 2 (usine DMS à double circuit);
- Tonnage total des résidus produits est de 71,1 millions de tonnes (Mt) ;
- Lieu de disposition des résidus : de la 1re année à la 22e année dans la halde 002, et de la 3e année à la 22e année en remblai en pâte pour la mine souterraine;
- Tonnage total des résidus vers la halde 002 est de 54 Mt ;
- Densité spécifique des résidus est de 2,68 ;
- Granulométrie des résidus: P_{80} est de 7,68 mm, non plastiques ;
- Teneur en solides des résidus est de 88 % (Ws/Wt) ;
- Tonnage total des stériles : 155,2 Mt, dont 7 4,2 Mt à faible risque et 81,0 potentiellement générateurs d'acide/lixiviables ;
- Tonnage total des morts-terrains : 14 Mt;
- Lieu de disposition des stériles : stériles à faible risque vers la halde 001 de l'année 1 à 9, puis dans la fosse ; et stériles potentiellement générateurs d'acide vers la halde 002 de l'année 1 à 22.

4.1.2 Classement des risques

La halde 001 est utilisée exclusivement pour la disposition des stériles. La halde 002 est utilisée à la fois pour la disposition des stériles et des résidus filtrés. Les résidus et les stériles seront placés dans la halde 002. Les haldes de disposition seront des structures qui ne retiennent pas l'eau et sont conçues pour évacuer les eaux de surface vers les fossés périphériques au pied de la halde.

La directive 19 sur l'industrie minière (MELCCFP, 2025) considère un empilement à sec comme une zone de retenue sans rétention d'eau. Elle définit les critères de conception du système de drainage et de résistance aux séismes. La directive 019 réfère au guide du Québec (MRNF, 2024) pour les facteurs de sécurité minimaux applicables aux haldes à stériles et de morts-terrains, lesquels constituent les critères de conception retenus pour cette étude.

Selon la norme industrielle mondiale sur la gestion des stériles (GISTM, 2020), les nouvelles installations de disposition des résidus (y compris les haldes à stériles) doivent répondre aux critères de conception correspondant à la classification « Conséquence extrême » pour les conditions post-fermeture. Cette classification a été utilisée pour déterminer l'intervalle de récurrence de l'événement sismique pris en compte dans l'analyse de stabilité. Le bulletin technique de l'Association canadienne des barrages (ACB, 2019) précise qu'une installation de résidus sans eau libre/stagnante, comme un empilement (parc) à sec, peut être conçue selon les lignes directrices applicables aux haldes et aux morts-terrains, à condition que les matériaux ne soient ni liquéfiables ni susceptibles de se liquéfier.

Les haldes 001 et 002, ainsi que les haldes de morts-terrains 004 et 005, ont été classées selon le système de classification de Hawley et Cunning (2017) pour les haldes. Les haldes 001 et 002 sont classées comme présentant un risque modéré (WHC III). Les haldes de morts-terrains 004 et 005 sont classées comme présentant un faible risque (WHC II).

Les bassins de rétention des haldes de disposition ont été classés comme « significatifs » selon les lignes directrices de l'ACB (ACB, 2013).

Les digues situées dans le lac 001 pour la dérivation doivent être classées conformément à la Loi sur la sécurité des barrages du Québec, car elles seront construites dans un cours d'eau existant. Ces digues sont classées «classe B».

4.1.3 Sismicité

Les valeurs d'accélération maximale du sol (PGA) ont été obtenues et extrapolées à partir du NBCC (2020) comme suit :

- 0,0642 g pour un événement survenant une fois tous les 2 475 ans, et
- 0,2 g pour un événement survenant une fois tous les 10 000 ans.

4.1.4 Stabilité des haldes

Les facteurs de sécurité minimaux pour les haldes sont basés sur BCMWRPRC (1991a) et Hawley et Cunning (2017) et sont présentés dans le tableau ci-dessous.

Tableau 4-1 Facteurs de sécurité minimaux pour les haldes

Condition de chargement	Facteur de sécurité minimal
Halde/surface du sol (court terme)	1,0
Halde/surface du sol (long terme)	1,2
Stabilité globale à court terme (statique), après construction	1,3 à 1,5
Stabilité globale à long terme (statique)	1,5
Analyse pseudo-statique ou dynamique pour le chargement sismique	1,1 à 1,3

4.1.5 Stabilité des digues

Les facteurs de sécurité minimaux pour les barrages du lac 001 sont basés sur le MDDEP (2012) et sont indiqués dans le tableau ci-dessous.

Tableau 4-2 Exigences minimales en matière de facteur de sécurité pour les digues de dérivation

Zone	Condition de chargement	Facteur de sécurité minimal (MDDEP, 2012 ; MRNF, 2024)
Amont et aval	Stabilité des pentes à la fin de chaque phase de construction (court terme)	1,3 à 1,5
Amont et aval	Stabilité des pentes en situation d'inondation prévue dans le cadre du projet (court terme)	1,3
Amont et aval	Stabilité des pentes dans des conditions stationnaires (long terme)	1,5
Amont	Drainage rapide	1,3
Amont et aval	Analyse pseudo-statique ou dynamique pour les chargements sismiques, avec bassin rempli et à propriétés réduites en cas de possibilité de liquéfaction	1,1
Amont et aval	Valeur post-sismique	1,3

4.2 Gestion de l'eau sur site

4.2.1 Gestion de l'eau pour les haldes

Le système de gestion de l'eau pour les haldes 001 et 002 est conçu pour contrôler et traiter efficacement les eaux de contact générées par le ruissellement de surface. Des fossés de collecte des eaux de contact sont disposés stratégiquement afin d'intercepter le ruissellement et de l'acheminer vers des bassins de collecte dédiés, qui fonctionnent comme des ouvrages de retenue temporaire. L'eau collectée est stockée temporairement avant d'être pompée vers la zone industrielle pour un traitement complémentaire. Les principaux critères de conception hydrotechnique sont résumés ci-dessous :

Fossés de collecte des eaux de contact :

- La pluie de projet utilisée pour le dimensionnement des fossés correspond à un événement de 1 fois en 100 ans, d'une durée de 24 heures en été;
- Une revanche minimale de 0,6 m est maintenue pour les fossés;
- Les fossés sont de forme trapézoïdale et comprennent un enrochement pour protéger contre l'érosion;
- Les fossés autour de la halde 001 ne sont pas revêtus, tandis que ceux autour de la halde 002 sont munis de revêtement.

Bassins de collecte des eaux de contact :

- Tous les bassins sont classés comme des digues à risque « significatif » ;
- Les bassins associés à la halde 001 ne sont pas revêtus, tandis que ceux associés à la halde 002 sont revêtus d'une géomembrane;
- La crue de conception environnementale (CCE) pour les bassins de la halde 001 correspond à une fonte nivale centennale (1 fois en 100 ans) sur 13 jours, suivie d'un événement pluvieux printanier centennal. Cette CCE a été retenue puisque la halde 001 contient des matériaux non générateurs potentiels d'acide (NGA) et non lixiviables en métaux;
- La CCE pour les bassins de la halde 002 correspond à une fonte nivale centennale sur 13 jours, suivie d'un événement pluvieux millénaire (1 fois en 2 000 ans). Cette CCE plus conservatrice reflète la présence de matériaux potentiellement générateurs d'acide (PAG) et lixiviables en métaux (LM), conformément aux exigences de la Directive 019 (MELCCFP, 2025) ;
- En conditions CCE, les bassins associés à la halde 001 sont conçus avec une revanche minimale de 1,0 m, tandis que ceux associés à la halde 002 maintiennent une revanche minimale de 1,5 m;
- La crue de conception pour les déversoirs d'urgence (CCA) est la crue maximale probable (PMF), utilisée pour le dimensionnement des déversoirs d'urgence de tous les bassins ;
- Une revanche minimale de 0,6 m est maintenue pour tous les bassins dans des conditions CCA.

4.2.2 Gestion de l'eau pour la zone industrielle

La zone industrielle, située au nord-est de la fosse proposée, accueillera toutes les infrastructures liées au traitement de l'eau et aux opérations de procédé. Les infrastructures de gestion de l'eau dans le cadre de ce projet comprennent deux bassins d'eau de contact, deux bassins de sédimentation, un bassin de polissage, une usine de traitement des eaux pour les matières en suspension (MES) (prévue à titre de contingence) et une station de traitement pour les eaux contaminées par des métaux. Les principaux critères de conception hydrotechnique pour la conception des bassins de sédimentation, du bassin de polissage et des bassins d'eau de contact sont résumés ci-dessous :

Bassins de sédimentation et de polissage

- La classification des conséquences en cas de rupture de digue est « importante » ;
- La caractérisation de l'eau est considérée comme présentant un faible risque, et les deux bassins sont munis d'une étanchéité afin de prévenir les infiltrations.
- La CCE pour tous les bassins correspond à un événement pluvieux millénaire (1 fois en 1 000 ans);
- La CCA correspond à la crue maximale probable (CMP), utilisée pour dimensionner les déversoirs d'urgence, et
- une revanche minimale de 1,0 et 0,6 m est maintenue au-dessus des niveaux d'eau maximaux de la CCE et de l'CCA, respectivement.

Bassins de collecte des eaux de contact :

- Les bassins sont entièrement excavés et ne comportent pas de digue en remblai ;
- La caractérisation de l'eau est considérée à faible risque, et les deux bassins sont revêtus pour prévenir les infiltrations;
- L'événement de crue de conception environnementale (CCE) pour les deux bassins correspond à une fonte des neiges d'occurrence 1 fois en 100 ans sur une période de 13 jours, suivie d'un événement pluvieux d'occurrence 1 fois en 1 000 ans.
- Une revanche minimale de 1,0 m doit être maintenue au-dessus du niveau d'eau maximal associé à la CCE.

Les critères de conception pour les usines de traitement d'eau ont été présentés à la **Section 4.3**.

4.2.3 Digues et canal de dérivation du lac 001

Il est proposé de construire une série de digues étanches ainsi qu'un système de fossés de dérivation afin de détourner en toute sécurité les écoulements provenant du lac 001 autour de la fosse. Ce système est conçu pour isoler la fosse des apports du lac en amont, tout en maintenant la continuité du drainage naturel pendant toute la durée de vie de la mine.

Les principaux critères de conception hydrotechnique sont les suivants :

- La classification des risques des digues de retenue est « Conséquence extrême ».
- Le débit de conception des apports (CCA) correspond à la Crue Maximale Probable (CMP).
- Une revanche minimale de 1,5 m est maintenue pour les digues d'étanchéité dans des conditions correspondant à la CCA.
- Le fossé de dérivation est de forme trapézoïdale et comporte une protection contre l'érosion par enrochement lorsque cela est nécessaire, en particulier dans les sections de recouvrement, et
- Une revanche minimale de 0,6 m est maintenue pour le fossé de dérivation.

4.3 Traitement de l'eau

4.3.1 Traitement de l'eau de contact

4.3.1.1 Débit de conception et qualité de l'eau brute

Le **Tableau 4-3** présente les débits potentiels ainsi que les contaminants d'intérêt pour chaque source d'eau de contact à gérer sur le site. Vision Geochemistry a caractérisé la qualité de l'eau pour chaque source au moyen d'essais statiques et dynamiques afin d'identifier les contaminants d'intérêt (Vision, 2025).

Les débits sont déterminés en fonction des hypothèses suivantes :

- Le débit normal est basé sur 40 % de la capacité maximale de pompage;
- Le débit minimal correspond à une condition sèche, où seul le débit de dénoyage doit être géré ;
- La CCE définit le débit maximal.
- La stratégie de gestion des crues consiste à emmagasiner le ruissellement tout en pompant activement la fonte des neiges durant la crue printanière. Le débit maximal correspond donc au débit de pompage de pointe requis pour gérer l'eau dans le bassin de collecte.

Tableau 4-3 Débits de conception et contaminants prévus utilisés pour le dimensionnement des usines de traitement de l'eau

Point d'eau	Unité	Min	Condition normale	Max	Contaminants d'interet	Référence
Halde 001	m^3 /h	0	236	592	MES	Valeurs calculées à partir du bilan hydrique du site par AtkinsRéalis Référence du document 2405007-TR1 (Vision, 2025)
Halde 001a (drainage dans le bassin 01a)		0	144	3	MES	
Halde 002 (drainage vers le bassin 02)		0	346	86	MES et As, Al, Cd, Cu, Ni, U, Sb et Li pH de 4,2	
Halde 002 (drainage vers le bassin 03)		0	735	1 837	MES et As, Al, Cd, Cu, Ni, U, Sb et Li pH de 4,2	
Zone industrielle		0	880	2 200	MES	
Ruissellement provenant de la mine à ciel ouvert		0	347	867	MES	Chiffre fourni par G-Mining (courriel daté du 9 juin 2025)
Dénoyage du bassin versant externe de la fosse		0	810	810	MES	Sur la base de la capacité de pompage fournie par G-Mining (courriel daté du 6 juin 2025) Pas de VFD sur ces pompes. Conditions normales = conditions maximales)
Dénoyage de la fosse		133	133	133	MES	Débits estimés fournis par Mailloux Hydrogeologie (courriel daté du 7 mai 2025)
Dénoyage souterrain		204	204	204	MES	
Eau générée par les activités souterraines		22	22	22	MES	Débits préliminaires fournis par G-Mining (courriel daté du 7 février 2025)
Eau domestique traitée		-	5,8	8,7	MES	Calculé sur la base de 550 chambres (AtkinsRéalis, 2025c)
Eau purgée de l'usine de traitement		13	266	26	MES, As	Débit fourni par Primero (courriel daté du 8 mai 2025) Référence du document 2405007-TR1 (Vision, 2025)

4.3.1.2 Critères de rejet des effluents finaux

Le **Tableau 4-4** résume les critères de rejet pour chaque réglementation. Les chiffres en gras indiquent les valeurs les plus restrictives utilisées dans la conception de l'usine de traitement des eaux (UTE).

L'UTE a été conçue de manière à ce que l'effluent final réponde aux critères de rejet énoncés dans la directive 019 du *Ministère du Développement durable, de l'Environnement, de la Faune et des Parcs* (MDDEFP). De plus, le système a été conçu pour produire un effluent traité qui tend à respecter les normes de qualité des eaux de surface nécessaires à la protection de la vie aquatique, conformément aux meilleures technologies disponibles économiquement réalisables (MTDER). Il convient de noter qu'aucun critère de rejet spécifique au projet n'avait été établi au moment de la rédaction du rapport.

Tableau 4-4 Critères finaux de qualité des effluents

Paramètres	Critères de qualité pour le point de rejet des effluents finaux			
	Unités	Conformément à la directive 019 (D019)(1)	Conformément au règlement sur les effluents des mines de métaux et de diamants (REMMD)(2)	Critères de qualité des eaux de surface (protection de la vie aquatique)(3)
pH	pH	**6-9,5**	6-9,5	6-9,5
Matières en suspension (SS)	mg/L	**15**	15	25
Fluorure (F)	mg/L	-	-	0,2
Aluminium (Al)	mg/L	-	**1**	0,018 – 0,32
Arsenic (As)	mg/L	**0,1**	0,1	0,15
Cuivre (Cu)	mg/L	**0,1**	0,1	0,0013(4)
Fer (Fe)	mg/L	**3**	-	1,3
Nickel (Ni)	mg/L	**0,25**	0,25	0,007(4)
Plomb (Pb)	mg/L	**0,08**	0,08	0,00017(4)
Zinc (Zn)	mg/L	**0,4**	0,4	0,017(4)
Ammoniac non ionisé	mg/L	-	**0,50**	0,30
Lithium (Li)	mg/L	-	-	0,44
Manganèse (Mn)	mg/L	-	-	0,26
Mercure (Hg)	mg/L	-	-	0,0091
Uranium (U)	mg/L	-	-	0,014

(1) Directive 019 sur l'industrie minière (mars 2025).
(2) Règlement sur les effluents provenant des mines de métaux et des mines de diamants, DORS/2002-222.
(3) Critères de qualité des eaux de surface.
(4) Critères de qualité des eaux pour les métaux dont la toxicité varie en fonction de la dureté, fournis à l'annexe 12 des Critères de qualité des eaux de surface.

4.3.1.3 Lixiviation du lithium provenant de la halde 002

Du lithium a été détecté dans les eaux de lixiviation lors de la caractérisation géochimique, avec des concentrations dépassant les critères de qualité des rejets dans les eaux de surface, principalement dans les eaux de ruissellement provenant des résidus. Cependant, comme le lithium n'est actuellement réglementé ni par le REMMD ni par la directive 019, et qu'aucun objectif spécifique de rejet n'a été fixé pour ce projet à ce jour, aucun traitement spécifique n'a été conçu pour ce contaminant.

Le lithium n'est généralement pas associé à une toxicité élevée. De plus, sa présence dans les résidus suggère des possibilités d'améliorer les taux de récupération du lithium à partir du spodumène pendant le processus de concentration. Des études supplémentaires sont nécessaires pour mieux comprendre la relation entre la caractérisation géochimique, la concentration de lithium dans le traitement du Li_2O et les futurs objectifs de rejet. Ces études permettront de déterminer s'il convient de mettre au point un processus de traitement spécifique pour le lithium.

4.3.2 Production d'eau potable

4.3.2.1 Débit de conception

Le débit de conception pour l'usine de production d'eau potable (UPEP) est déterminé à l'aide du Guide de conception du MDDEFP (MDDEFP, 2023), en tenant compte d'un camp de 550 chambres. Bien que la capacité du camp devrait augmenter légèrement au cours des premières années, une usine de production d'eau potable à pleine capacité sera opérationnelle dès la première année.

La consommation d'eau dans les camps éloignés fluctue souvent de manière significative. L'expérience acquise dans le cadre de projets similaires a montré que la consommation peut dépasser le débit de conception calculé selon le guide du MDDEFP pendant les rotations des équipes. Pour faire face à ces variations, un réservoir de stockage d'eau potable garantit un approvisionnement en eau suffisant pendant les périodes de pointe. Le tableau ci-dessous résume les débits pris en compte pour ce projet.

Tableau 4-5 Critères de conception pour l'usine de production de l'eau potable

Description	Unité	Base de conception
Capacité du camp	Pièce	550
Volume par chambre	L/chambre/jour	340
Eau consommée à l'usine	%	15
Eau utilisée pour contre-lavagedes filtres de l'usine	%	10
Débit moyen	m^3 /j	158
Débit maximal	m^3 /j	237 (facteur de pointe de 1,5)
Débit nominal PWPP	m^3 /j	240
Réservoir d'eau potable	m^3	7

4.3.2.2 Source d'eau potable

Les résultats de l'étude hydrogéologique de base montrent que la capacité des eaux souterraines est insuffisante pour répondre aux besoins en eau potable du camp. Par conséquent, il est prévu d'utiliser l'eau de surface d'un lac voisin comme principale source d'eau pour l'UPEP. Le lac 308, situé à proximité de la halde 002, a été confirmé comme une source viable d'eau douce pour la production d'eau potable. Le dessin CASN-A-001-GE-DWG-0001-B montre l'emplacement de la prise d'eau douce.

4.3.2.3 Qualité de l'eau

Le lac 308 n'a pas fait l'objet d'échantillonnage lors des études de terrain précédentes. Afin d'estimer la qualité de l'eau, les données disponibles sur les lacs environnants ont été interpolées pour fournir un aperçu général de la qualité des eaux de surface dans la région. Cette approche de caractérisation ne répond pas aux exigences réglementaires pour définir correctement une nouvelle source d'approvisionnement en eau, comme l'exige le Guide (MDDEFP, 2019). Étant donné que la qualité des eaux de surface peut fluctuer selon les saisons et d'une année à l'autre, une approche prudente a été adoptée en se basant sur les hypothèses suivantes.

- La concentration du contaminant trouvé au 90e centile est utilisée pour concevoir l'usine de traitement.
- L'eau est considérée comme une eau de surface de bonne qualité, telle que décrite dans le Guide (MDDEFP, 2019). Par conséquent, les objectifs de désinfection sont les suivants :
  - Virus: 4 logs.
  - Giardia: 3 logs, et
  - Cryptosporidium: 3 logs.

Le tableau ci-dessous résume les principaux contaminants préoccupants identifiés dans la compilation des données sur la qualité des eaux de surface prélevées autour du site, sur la base des critères du RQEP (MDDEFP, 2024). Les principaux contaminants identifiés sont le NO_2 /NO_3 et la turbidité.

Tableau 4-6 Qualité des eaux de surface dans les plans d'eau voisins

Paramètre	Unité	Min	Max	Moyenne	90e centile	Critères
Arsenic	µg/L	0,4	1,0	0,6	1,0	10
MES	mg/L	<2	2	<2	<2	-
NO_2 /NO_3		0,1	24,0	14,0	22,8	1
COT		6,4	8,8	7,0	8,0	-
Turbidité	NTU	0,4	0,8	0,5	0,7	0,3
pH	-	7,0	7,9	7,3	7,7	6,5 – 8,5

4.3.3 Traitement des eaux usées

4.3.3.1 Débit de conception

Le débit de conception est déterminé à l'aide du guide du MDDEFP (MDDEFP, 2023) et de la demande estimée en eau potable pour ce projet. On suppose que le réseau d'égouts utilisera un système de canalisations séparées.

Tableau 4-7 Critères de conception pour le traitement des eaux usées domestiques

Description	Unité	Base de conception	Référence
Capacité du camp	Chambre	550	Nombre fourni par G-Mining (AtkinsRéalis, 2025c)
Débit moyen	m^3 /j	13	Calculé par AtkinsRéalis
Débit maximal	m^3 /j	209 (facteur de pointe de 1,5)	Calculé par AtkinsRéalis Guide pour l'étude des technologies conventionnelles de traitement des eaux usées d'origine domestique (MDDEFP, 2023)

4.3.3.2 Qualité de l'eau

Les eaux usées du réseau d'égouts sont exclusivement domestiques. Les concentrations types en demande biologique en oxygène (DBO_5), azote total Kjeldahl (ATK) et phosphore sont appliquées dans un rapport de 100:20:5 (MDDEFP, 2023). Le tableau suivant présente les critères de rejet pour ce projet, conformément à la réglementation québécoise (MDDEFP, 2020). Aucun traitement spécifique de l'ammoniac n'est prévu pour ce projet.

Tableau 4-8 Qualité de l'eau des eaux usées domestiques

Paramètre	Unité	Concentration Débit entrant	Critères de rejet
DBO	mg/L	400	≤ 15
MES		400	≤ 15
ATK		80	≤ 1
Pt		20	≤ 200

4.4 Fermeture

4.4.1 Objectifs de fermeture

Les activités de fermeture visent à remettre le site dans un état satisfaisant, tel que défini à la **Section 4-1** du Guide du MRNF (MERN, 2024). Les principaux objectifs des activités de fermeture et de remise en état seront les suivants :

- Éliminer les risques inacceptables pour la santé et assurer la sécurité publique.
- Limiter la production et la propagation de contaminants susceptibles d'affecter l'environnement récepteur et, à long terme, viser à éliminer toute forme d'entretien et de surveillance.
- Assurer la stabilité géotechnique et géochimique à long terme.
- Permettre une restauration progressive.
- Assurer l'acceptabilité sociale.
- Ramener le site à un état qui soit, dans la mesure du possible, conforme à l'écosystème initial ou environnant et visuellement acceptable.
- Ramener les zones d'infrastructure à un état compatible avec leur utilisation future.

4.4.2 Facteurs de sécurité minimaux pour les analyses de stabilité dans des conditions de fermeture

Les cas de chargement à analyser et les critères de stabilité sont présentés dans le tableau ci-dessous. Les facteurs de sécurité (FS) recommandés pour évaluer la stabilité des installations de disposition des stériles sont ceux spécifiés par la directive D019 sur l'industrie minière (MELCCFP, 2025), par l'Association canadienne des barrages (ACB, 2019) et par le Guide de préparation des plans de réhabilitation et de restauration des sites miniers au Québec (MRNF, 2024). Les valeurs minimales des FS adoptées pour évaluer la stabilité des installations de stockage des stériles dans des conditions de fermeture y sont également présentées.

Tableau 4-9 Facteurs de sécurité minimaux visés pour les analyses de stabilité dans des conditions de fermeture

Condition de chargement		Facteurs de sécurité minimaux (FS)			
		D019 (MELCCFP, 2025)	**ACB (2019)**	**MRNF (2024)**	**F S minimal proposé pour ce projet (fermeture)**
Statique	Fin de la construction (court terme)	1,3 à 1,5	> 1,3	1,3 à 1,5	1,5
	Long terme	1,5	1,5	1,5	1,5
	Crue de conception	1,3	-	1,3 à 1,5	1,3
Pseudo-statique		1,1	1,0	1,1	1.1
Post-sismique		1,3	1.2	1.3	1.3
Glissement horizontal (statique)		1,5	-	1,5	1,5
Glissement horizontal (post-liquéfaction)		1,3	-	1,3	1,3
***Remarque** : cette condition sera incluse dans l'analyse de stabilité (surfaces de glissement composites).*					

4.4.3 Charge hydrotechnique

Le document du MELCCFP (2025) recommande une crue de conception à une période de retour minimale de 100 ans pour les systèmes de drainage avec des structures sans accumulation d'eau, sur les sites miniers et autour de ceux-ci. Par conséquent, les critères de conception suivants ont été adoptés dans la présente étude :

- Le débit de crue de conception des fossés ou des ponceaux est généré par des précipitations estivales et automnales avec une période de retour de 100 ans. Cette période de retour doit également être utilisée dans le programme d'entretien du site.
- La transformation des précipitations en ruissellement est basée sur un coefficient de ruissellement conservateur de 1,0 (comme recommandé par la méthodologie du MTQ).
-

4.4.4 Propriétés géotechniques des matériaux

En ce qui concerne le choix des matériaux de restauration, les critères sont les suivants :

- Le concept de fermeture doit donner la priorité aux matériaux disponibles sur le site ou à proximité, y compris ceux provenant de carrières ou de matériaux miniers réutilisables;
- Les matériaux utilisés, ou tout mélange de ceux-ci doivent être non acidifiants et non lixiviables.

4.4.5 Système de couverture

Le système de couverture sera sélectionné en fonction de la classification géochimique des stériles et de la disponibilité des matériaux.

Les critères de fermeture pour la couverture de la zone d'accumulation des stériles et des résidus sont basés sur les objectifs de restauration énumérés à la **Section 4.4.1** :

- Nécessite un entretien minimal;
- Ne libère pas de contaminants au-delà des limites acceptables définies par la directive D019;
- Est physiquement stable (c'est-à-dire que la couverture répond aux critères géotechniques décrits à la **Section 4.4.2**) ;
- S'intègre au paysage environnant;
- Limite l'infiltration d'eau dans les stériles et les résidus ;
- Permet de détourner l'eau de pluie vers les infrastructures de gestion de l'eau afin de réduire l'érosion ;
- Est résilient au changement climatique.

4.4.6 Couverture végétale

Toutes les haldes à stériles doivent être revégétalisées afin de contrôler l'érosion et de restaurer un aspect naturel en harmonie avec l'environnement avoisinant (MRNF, 2024).

Les critères agronomiques suivants doivent être pris en compte et intégrés dans la couverture de restauration choisie :

- La végétation doit atteindre un état satisfaisant, ce qui signifie qu'une fois en place, les plantes doivent être robustes, viables à long terme et ne nécessiter aucune modification ni entretien pour garantir de la durabilité.
- Le type de végétation sélectionné ne doit pas compromettre les performances du concept de fermeture.
- L'introduction et la propagation d'espèces exotiques envahissantes (EEE) doivent être limitées, notamment en s'assurant que les sols utilisés ne contiennent aucune graine d'EEE.
- La croissance de la végétation ne doit pas entraîner le blocage des fossés du site.

Les zones revégétalisées doivent faire l'objet d'un suivi agronomique par un spécialiste de la revégétalisation des sites miniers ou par un agronome membre de l'Ordre professionnel des agronomes du Québec. Ce professionnel confirmera que les conditions en place sont adéquates pour assurer la durabilité à long terme de la végétation.

4.4.7 Critères liés aux changements climatiques

Les critères de fermeture des haldes à stériles doivent tenir compte des effets des changements climatiques dans leur conception. Les changements climatiques devraient se manifester principalement par une augmentation de la fréquence et de l'intensité des précipitations extrêmes dans toutes les régions minières du Québec, ainsi que par une augmentation des précipitations annuelles moyennes (URSTM, 2017 ; GIEC, 2018).

Les effets prévus du changement climatique pour les régions minières du Québec (URSTM, 2017) pourraient inclure :

- Une augmentation de la fréquence et de la gravité des phénomènes météorologiques extrêmes.
- Des changements dans les régimes de précipitations, avec une forte tendance à des précipitations plus abondantes et une tendance plus faible à des périodes de sécheresse plus longues.
- Risque accru d'instabilité dans les infrastructures de gestion de l'eau et des stériles/résidus.

La fermeture des haldes à stériles doit intégrer une approche d'adaptation pour faire face à ces impacts. Les éléments clés d'une approche d'adaptation au changement climatique applicable au secteur minier comprennent :

- Définir les impacts des conditions climatiques actuelles et évaluer les impacts climatiques futurs, en tenant compte de divers scénarios climatiques en relation avec le concept de fermeture.
- Comprendre la vulnérabilité des infrastructures minières au changement climatique et identifier les risques associés.
- Identifier les solutions d'adaptation appropriées et les appliquer lors de la conception des structures.

Afin de garantir l'efficacité du système de couverture et la capacité du système de drainage à évacuer efficacement l'eau, des mesures seront intégrées dans la conception finale des structures. Ces mesures permettront de mieux préparer le site aux impacts à moyen et long terme du changement climatique, notamment en tenant compte de l'augmentation des précipitations annuelles moyennes et de la fréquence et de l'intensité accrues des événements extrêmes dans les calculs hydrologiques utilisés pour concevoir les infrastructures de rétention des résidus et des stériles.

5. Gestion de l'eau

5.1 Approche globale de gestion de l'eau

Le plan de gestion de l'eau visait à séparer efficacement les eaux de contact des eaux sans contact, conformément aux exigences de la directive 019 sur l'industrie minière (MELCCFP, 2025). Les eaux de contact seront collectées par des systèmes de collecte composés de fossés et de bassins de rétention. Les eaux de contact provenant de diverses infrastructures du site, notamment les haldes 001 et 002, les installations industrielles et le drainage des mines (à ciel ouvert et souterraines), seront acheminées vers des infrastructures de traitement des eaux (c'est-à-dire des bassins de sédimentation et de polissage) via des stations de pompage. À partir de là, les eaux seront traitées de manière appropriée avant d'être rejetées dans l'environnement ou réutilisées dans l'usine de traitement.

Le dessin CAN-A-001-GE-DWG-0001 illustre l'infrastructure de gestion de l'eau sur le site minier, qui comprend cinq éléments principaux :

- Fossés de dérivation des eaux sans contact : il s'agit de structures temporaires conçues pour détourner les eaux sans contact de l'empreinte de la halde 002 pendant les quatre premières années de l'exploitation minière;
- Fossés d'eau de contact : ces fossés sont conçus pour collecter les eaux de ruissellement provenant des haldes 01 et 02 et les acheminer vers les bassins de collecte d'eau de contact désignés ;
- Bassins de collecte des eaux de contact : ces bassins servent d'installations de stockage pour recueillir les eaux de ruissellement provenant des haldes 001 et 002 et de la zone industrielle. Une fois les eaux de contact collectées dans ces bassins, elles sont transférées, par des systèmes de pompage, vers les infrastructures de traitement pour y être traitées ;
- Stations de pompage : stratégiquement réparties sur le site, ces stations servent à transférer l'eau de contact entre le système de collecte et les installations de traitement. Un système de pompage a également été conçu pour fournir un soutien opérationnel à l'approvisionnement en eau pour diverses activités minières.
- Infrastructure de traitement de la zone industrielle : ce système constitue la dernière étape du processus de gestion de l'eau. Il comprend une station de traitement de l'eau, des bassins de sédimentation et un bassin de polissage qui sert d'étape finale de traitement avant le rejet dans l'environnement ou la réutilisation dans l'usine de traitement.

Le surplus d'eau traitée sera rejeté dans la rivière CE15 (fossé naturel entre le lac 001 et le lac 027) à partir du bassin de polissage, garantissant ainsi le respect des normes réglementaires et le maintien d'un point de rejet unique et contrôlé. De plus, des déversoirs d'urgence sont intégrés à la conception des digues de tous les bassins afin de faire face en toute sécurité aux événements extrêmes.

5.2 Bilan hydrologique du site

5.2.1 Description

Un modèle de bilan hydrique à l'échelle du site est un élément essentiel dans l'élaboration et la conception d'un plan de gestion de l'eau pour la mine. Ce modèle a été développé pour soutenir les différentes phases du cycle de vie de la mine, y compris la mise en service et l'exploitation. Il fournit un cadre quantitatif pour estimer les volumes d'eau, leurs mouvements et leurs stockages dans les infrastructures du site, conformément au principe de conservation de la masse. Le modèle tient compte de tous les apports, retraits et transferts internes d'eau, et facilite la prise de décision en matière d'utilisation opérationnelle de l'eau, de rejets dans l'environnement et de dimensionnement des infrastructures.

Le modèle englobe tous les principaux composants du site, y compris la mine à ciel ouvert, la mine souterraine, les haldes, l'usine de traitement, l'usine de pâte, les installations domestiques et les infrastructures de gestion de l'eau, telles que les bassins de sédimentation et le bassin de polissage.

Les principaux objectifs du modèle de bilan hydrique étaient les suivants :

- S'assurer que les niveaux d'eau dans les bassins de la mine se situaient dans des fourchettes opérationnelles acceptables ;
- Évaluer la disponibilité de l'eau pour les besoins opérationnels dans des conditions climatiques variables ; et
- Estimer les volumes de rejets environnementaux provenant du bassin de polissage pendant la durée de vie de la mine.

La figure 702381-5100-4H-Sketch dans l'**Annexe C** présente un schéma de la logique de gestion des flux d'eau du site. Cette figure a été incluse dans la note sur le bilan hydrique CASN-A-320-WM-MEM-0001.

5.2.2 Méthodologie

Le bilan hydrique à l'échelle du site a été élaboré à l'aide de GoldSim™, un logiciel de simulation dynamique développé par GoldSim Technology Group. La structure du modèle comprend des composants modulaires pour chaque bassin versant et chaque élément d'infrastructure, les voies d'écoulement étant représentées sous forme d'écoulements gravitaires, de transferts par pompage et de conduites de refoulement. Le modèle a été exécuté de manière déterministe sur toute la durée de vie de la mine, simulant les débits d'eau quotidiens et les volumes de stockage dans quatre conditions climatiques, à savoir des scénarios moyens, secs, humides et extrêmes.

Le scénario extrême consiste en une année au cours de laquelle un événement hydrologique extrême se produit. Plus précisément, le scénario comprend la fonte d'un manteau neigeux associée à une période de 1 à 100 ans sur 13 jours, suivie d'un événement pluvieux printanier de 24 heures, avec une période de retour de 1 sur 2 000 ans. Cette combinaison a été choisie sur la base de la crue de conception environnementale (CCE) la plus critique utilisée dans la conception des infrastructures pour les composants sensibles au comportement potentiellement générateur d'acide (PGA), y compris la halde 002 (Vision, 2025) . Cet événement a été sélectionné à des fins de simulation afin d'évaluer les performances du système dans des conditions très conservatrices et ne reflète pas la base de conception de toutes les infrastructures.

Tous les scénarios climatiques ont été définis sur la base de l'étude hydrologique de référence (AtkinsRéalis, 2025d), comme résumé dans la section suivante.

5.2.3 Données d'entrée

5.2.3.1 Données climatiques

Les données climatiques ont été obtenues à partir de quatre stations d'Environnement et Changement climatique Canada (ECCC), comme indiqué dans le rapport hydrologique de base (AtkinsRéalis, 2025d). Les précipitations mensuelles estimées pour des conditions climatiques moyennes, sèches (1 fois en 100 ans) et humides (1 fois en 100 ans) sont présentées dans le **Tableau 5-1**. Afin de représenter ces scénarios dans le modèle de bilan hydrique, des données climatiques historiques quotidiennes ont été sélectionnées à partir d'années dont les régimes de précipitations correspondaient étroitement aux valeurs mensuelles cibles. Ces années représentatives ont été utilisées pour simuler une variabilité quotidienne réaliste dans chaque scénario, en veillant à la cohérence avec les conditions climatiques à long terme définies dans l'étude hydrologique de base (AtkinsRéalis, 2025d).

De plus, les taux d'évaporation ont été estimés à l'aide de la méthode Thornthwaite, sur la base des données mensuelles de température (**Tableau 5-1**). Les considérations relatives au changement climatique ont été intégrées à l'étude, comme indiqué dans le rapport hydrologique de base (AtkinsRéalis, 2025d), en appliquant :

- Une augmentation de 8 % des précipitations annuelles,
- Une augmentation de 18 % des précipitations extrêmes ; et
- Une augmentation de 5 % de la couverture neigeuse sur 100 ans.

Tableau 5-1 Température, précipitations et évaporation mensuelles (AtkinsRéalis, 2025)

Mois	Température	Précipitations totales (sécheresse centenaire)	Précipitations totales (moyenne)	Précipitations totales (100 ans humides)	Évaporation
	[°C]	[mm]	[mm]	[mm]	[mm]
Janvier	-24,8	37,5	35,7	36,1	0,0
Février	-21,4	10,8	35,8	39,7	0
Mars	-15,6	12,9	28,1	102,7	0
Avril	-5,6	11,0	37,8	68,7	0
Mai	4,0	10,0	56,4	44,9	38,2
Juin	13,8	18,6	59,9	204,5	97,1
Juillet	16,1	22,7	137,5	106,8	120,5
Août	13,2	107,2	121,8	147,7	98,3
Septembre	8,4	86,0	83,2	156,9	55,2
Octobre	1,5	57,8	82,7	74,1	13,0
Novembre	-7,0	20,0	93,5	54,1	0
Décembre	-20,7	15,1	58,1	62,4	0
Année	-3,2	409,7	830,6	1098,7	422,2

5.2.3.2 Génération des précipitations et du ruissellement

Le ruissellement provenant de divers bassins versants a été estimé à l'aide de la méthode rationnelle, avec des coefficients de ruissellement ajustés selon les saisons en fonction des types de la nature de sols (**Tableau 5-2**). La délimitation des bassins versants a été effectuée sur la base de la topographie et de la disposition des infrastructures.

Tableau 5-2 Coefficients de ruissellement utilisés dans le modèle

Description	Coefficient de ruissellement hivernal	Coefficient de ruissellement estival
Surface de l'eau	1,00	1,00
Forêt	1,00	0,19
À ciel ouvert	1,00	0,80
Sédiments	1,00	1,00
Haldes 001	1,00	0,50
Haldes 002	1,00	0,75
Bassin versant externe	1,00	0,55

5.2.3.3 Zones de drainage et débits de pompage

Les zones de drainage contribuant aux bassins d'eau en contact avec la mine ont été identifiées et résumées dans le **Tableau 5-3**, ainsi que les systèmes de pompage associés. On suppose qu'avant 2032, la mine à ciel ouvert sera partiellement développée et que seule une partie de la superficie des haldes contribuera au système d'équilibre hydrique de l'ensemble du site. Après 2032, la mine à ciel ouvert est considérée comme entièrement développée et l'ensemble de la superficie des haldes est supposé contribuer au ruissellement et à la production d'eau de contact dans le modèle.

Tableau 5-3 Débit de pompage et zone de captage des différentes infrastructures

Zone de drainage/bassin	Bassin versant [m^2]	Débit de pompage [m^3/h]	Volume maximal du bassin [m^3]
Zone industrielle/Bassin de contact n° 1	435 193	1 550	10 000
Zone industrielle/Bassin d'eau de contact n° 2	229 987	800	6 000
Halde 01/Bassin 001	539 763	590	86 000
Halde 01/Bassin 001a	329 252 (0)[1]	360	52 000
Halde 02/Bassin 002	895 856 (0)[1]	870	137 000
Halde 02/Bassin 003	1 699 221 (1 274 416)[1]	2 750	293 000
Empreinte de la mine à ciel ouvert/-	1 329 600 (617 000)[1]	1 000	-
Mine à ciel ouvert (externe)/-	770 000 (352 000)[1]	-	-
-/Bassin de sédimentation 1	15 500	-	42 000
-/Bassin de sédimentation 2	15 500	-	42 000
-/Bassin de polissage	32 000	-	140 000

Remarques :
1 Le chiffre entre parenthèses indique la superficie contributive avant l'année 2032.

5.2.3.4 Apports d'eau souterraine

Les apports d'eau souterraine vers la mine à ciel ouvert et les travaux souterrains sont dirigés vers le bassin de sédimentation. Les taux moyens de drainage sur la durée de vie de la mine sont présentés dans le **Tableau 5-4**.

Tableau 5-4 Taux de drainage de la mine à ciel ouvert et de la mine souterraine (Mailloux, 2024)

Description	Mine à ciel ouvert (m^3 /j)	Mine souterraine (m^3 /j)
2028-2032	1 200	2 600
2032-2036	1 800	3 200
2036-2040	2 600	4 300
2040-2044	2 900	4 600
2044-2049	3 200	4 900

5.2.3.5 Eaux usées domestiques

Les eaux usées domestiques traitées provenant du camp permanent et de l'usine de traitement sont rejetées dans le bassin de polissage à un débit de 8,7 m^3 /h. Le débit maximal a été utilisé dans le modèle.

5.2.3.6 Données de traitement

Les entrées et sorties d'eau de traitement ont été fournies par Primero (Primero, 2025) et sont illustrées à la figure W2. Avant 2032, une seule chaîne de traitement sera en service. Après 2032, deux chaînes seront pleinement opérationnelles.

5.2.4 Résultats

Les principales conclusions de l'analyse du bilan hydrique à l'échelle du site sont résumées ci-dessous :

- L'approvisionnement mensuel en eau douce nécessaire à la production d'eau potable varie entre 4 424 m^3/mois et 4 898 m^3/ mois, selon le mois. Une station de pompage dédiée située au lac 308 assure cet approvisionnement.
- Dans des conditions sèches, le bilan hydrique mensuel net du bassin de polissage, défini comme la différence entre les entrées et les sorties, est positif pendant la majeure partie de l'année, à différents stades du développement de la mine. Toutefois, en juin, le bilan devrait devenir temporairement négatif, avec un déficit compris entre environ 1 000 et 5 000 m^3 selon le stade d'exploitation de la mine. Ce bilan négatif peut être compensé par l'approvisionnement à partir du volume de réserve du bassin de polissage, ce qui garantit la fiabilité opérationnelle continue.
- Ce bilan globalement positif est principalement dû aux taux de drainage élevés des travaux à ciel ouvert et souterrains.
- Dans des conditions normales, lorsque la mine est pleinement exploitée, le volume d'eau excédentaire rejeté dans l'environnement varie de 286 000 m^3/mois en hiver à 989 000 m^3/mois au printemps, principalement en raison de la fonte des neiges et des précipitations . Ces volumes ont été estimés comme étant toujours égaux ou inférieurs à 30 % du débit dans le cours d'eau récepteur (CE 15 river).

- Sur une base annuelle, les volumes de rejet estimés dans l'environnement sont les suivants :
  - Année sèche: 4 950 000 m³.
  - Année moyenne: 7 030 000 m³.
  - Année humide: 8 410 000 m³.
- Les bassins de collecte des eaux de ruissellement situés en aval des haldes ont été évalués dans le cadre du scénario extrême et jugés suffisamment dimensionnés pour gérer les volumes de ruissellement sans débordement. Ces bassins ont été conçus pour capter les eaux de contact et les acheminer vers des bassins de sédimentation ou le bassin de polissage pour traitement.
- Les stations de pompage ont été conçues pour gérer l'événement de fonte des neiges prévu par la directive 019 (c'est-à-dire la fonte de la couverture neigeuse centenaire en 13 jours), garantissant ainsi un transfert efficace vers les infrastructures de traitement de l'eau. La simulation du bilan hydrique dans le scénario climatique extrême indique que la capacité du système de pompage est suffisante pendant la crue printanière extrême.
- Dans des conditions de fonctionnement normales, les systèmes de pompage n'utilisent que 40 % de leur capacité installée, ce qui offre une redondance suffisante pour les pics de débit.
- Dans des conditions normales, tous les bassins fonctionnent entre leur niveau d'eau de fonctionnement bas (NEFB) et leur niveau d'eau de fonctionnement maximal (NEFM). Aucun dépassement du NEFB n'a été observé dans des conditions moyennes ou sèches. Dans des conditions humides, des niveaux d'eau temporairement élevés ont été observés, mais ils sont restés dans les limites prévues . Ce phénomène peut être atténué par un pompage optimisé pendant le fonctionnement.
- Le temps de rétention hydraulique (TRH) dans les bassins de sédimentation et de polissage reste constamment supérieur à 24 heures en fonctionnement normal et proche de 18 heures lors d'épisodes de précipitations extrêmes, ce qui est considéré comme suffisant pour une décantation efficace des particules et une amélioration préliminaire de la qualité de l'eau.

Le **Tableau 5-5**, le **Tableau 5-6** et le **Tableau 5-7** présentent les résultats mensuels du bilan hydrique pour les années moyennes, sèches et humides lorsque la mine est pleinement opérationnelle.

Tableau 5-5 Bilan hydrique mensuel pour les principales infrastructures de la mine dans des conditions moyennes

Mois	Bassin 001 vers bassin de polissage	Bassin 001a vers bassin de polissage	Bassin 002 vers bassin 003	Bassin 003 vers UTE	Dénoyage de la fosse vers sédimentation	Dénoyage de la mine souterraine vers séd.	Zone industrielle vers sédimenttion	Effluent final	Prise d'eau douce (lac 308)
	Débit (m^3/mois)								
Octobre	45 894	16 346	61 689	223 514	220 350	168 268	45 284	483 679	4 898
Novembre	41 384	25 583	66 640	236 996	237 139	162 840	45 515	754 321	4 740
Décembre	6 730	4 106	10 567	55 531	121 985	168 268	7 242	325 000	4 898
Janvier	6 559	4 105	10 566	55 529	121 985	168 268	7 243	320 000	4 898
Février	6 272	3 709	9 841	51 718	110 180	151 984	6 541	286 000	4 424
Mars	6 382	4 106	10 264	53 945	121 985	168 268	7 243	322 000	4 898
Avril	8 036	4 999	12 430	60 828	122 376	163 104	8 550	317 000	4 740
Mai	49 968	36 614	119 007	415 939	339 000	168 000	86 708	989 000	4 898
Juin	23 391	17 680	57 113	211 000	210 000	163 000	43 921	704 000	4 740
Juillet	42 106	26 535	101 636	359 000	297 000	168 000	74 842	951 000	4 898
Août	39 479	25 064	94 323	334 000	286 000	168 000	71 275	978 000	4 898
Septembre	20 072	13 153	49 415	185 000	194 000	163 000	37 833	600 000	4 740
TOTAL	**296 273**	**182 000**	**603 491**	**2 243 000**	**2 382 000**	**1 981 000**	**442 197**	**7 030 000**	**57 670**

Tableau 5-6 Bilan hydrique mensuel pour les principales infrastructures de la mine en conditions sèches

Mois	Bassin 001 vers bassin de polissage	Bassin 001a vers bassin de polissage	Bassin 002 vers bassin 003	Bassin 003 vers UTE	Dénoyage de la fosse vers sédimentation	Dénoyage de la mine souterraine vers séd.	Zone industrielle vers sédimenttion	Effluent final	Prise d'eau douce (lac 308)
	Débit (m^3/mois)								
Octobre	16 757	10 819	38 299	142 902	179 283	168 268	30 625	387 880	4 898
Novembre	9 636	6 008	14 496	67 735	128 548	162 840	10 905	355 790	4 740
Décembre	6 741	4 106	10 148	53 012	121 985	168 268	7 243	338 330	4 898
Janvier	6 742	4 106	10 148	53 013	121 985	168 268	7 242	307 000	4 898
Février	6 089	3 708	9 166	47 867	110 180	151 984	6 542	274 000	4 424
Mars	6 741	4 106	10 148	53 024	121 985	168 268	7 242	321 000	4 898
Avril	6 535	4 168	9 822	51 295	118 050	163 104	7 044	312 000	4 740
Mai	13 656	13 220	30 678	119 130	162 984	168 000	23 584	491 000	4 898
Juin	5 713	5 807	12 946	61 977	123 000	163 000	12 156	348 000	4 740
Juillet	6 091	3 896	13 936	62 370	129 000	168 000	14 182	340 000	4 898
Août	24 135	15 484	55 168	198 770	214 000	168 000	45 142	718 000	4 898
Septembre	28 385	18 212	64 882	227 905	232 000	163 000	51 539	759 000	4 740
TOTAL	**137 221**	**93 640**	**279 837**	**1 139 000**	**1 763 000**	**1 981 000**	**223 446**	**4 952 000**	**57 670**

Tableau 5-7 Bilan hydrique mensuel pour les principales infrastructures de la mine en conditions humides

Mois	Bassin 001 vers bassin de polissage	Bassin 001a vers bassin de polissage	Bassin 002 vers bassin 003	Bassin 003 vers UTE	Dénoyage de la fosse vers sédimentation	Dénoyage de la mine souterraine vers séd.	Zone industrielle vers sédimenttion	Effluent final	Prise d'eau douce (lac 308)
	Débit (m^3/mois)								
Octobre	21 804	14 001	49 605	180 796	202 930	168 268	38 978	464 044	4 898
Novembre	10 844	6 744	16 313	71 395	132 623	162 840	12 345	399 870	4 740
Décembre	6 741	4 106	10 148	53 013	121 985	168 268	7 242	318 086	4 898
Janvier	6 742	4 106	10 148	53 012	121 985	168 268	7 243	315 000	4 898
Février	6 089	3 708	9 166	47 881	110 180	151 984	6 541	281 000	4 424
Mars	6 741	4 106	10 148	53 013	121 985	168 268	7 243	315 000	4 898
Avril	6 649	4 249	9 995	52 148	118 439	163 104	7 167	303 000	4 740
Mai	49 676	36 055	112 833	377 937	334 873	168 000	85 581	975 000	4 898
Juin	120 033	77 911	268 467	873 805	658 000	163 000	204 956	2 147 000	4 740
Juillet	32 686	20 963	74 685	259 000	255 000	168 000	59 924	884 000	4 898
Août	46 195	29 622	105 523	357 000	320 000	168 000	82 899	1 041 000	4 898
Septembre	45 123	28 922	103 034	345 000	311 000	163 000	80 351	967 000	4 740
TOTAL	**359 323**	**234 493**	**780 065**	**2 724 000**	**2 809 000**	**1 981 000**	**600 470**	**8 410 000**	**57 670**

5.3 Haldes 001 et 002

5.3.1 Description

La halde 001 est exclusivement destinée au stockage des stériles à faible risque, tandis que la halde 02 est destinée au stockage des stériles et des résidus potentiellement générateurs d'acide (PGA) et lixiviables en métaux (LM). Des systèmes de gestion de l'eau dédiés ont été mis en place pour les deux stocks afin de séparer et de gérer efficacement les eaux de contact, conformément à la directive 019 (MELCCFP, 2025). Ces systèmes comprennent principalement des fossés de collecte périphériques, des bassins de rétention des eaux de contact avec des déversoirs d'urgence intégrés et des infrastructures de pompage pour assurer le transport et la collecte efficaces des eaux de contact.

Les principaux éléments des systèmes de gestion de l'eau sont les suivants :

- Fossés de collecte des eaux de contact périphériques : chaque zone de stockage est entièrement entourée de quatre fossés périphériques conçus pour intercepter les eaux de ruissellement générées par les précipitations et l'écoulement de surface. Ces fossés acheminent les eaux de contact vers les bassins de rétention désignés ;
- Bassins de collecte des eaux de contact : il est proposé que les eaux de ruissellement collectées dans les fossés soient acheminées vers deux bassins de rétention adjacents, également proposés pour chaque halde. Ces bassins servent de structures de confinement primaires, assurant la décantation initiale des solides en suspension et le stockage temporaire lors d'événements de débit élevé. Chaque bassin est équipé d'un déversoir d'urgence afin de gérer en toute sécurité les débordements lors d'événements de précipitations extrêmes et d'empêcher le débordement.
- Systèmes de pompage : l'excès d'eau des bassins de rétention est activement pompé vers un bassin de sédimentation situé dans la zone industrielle. Cela facilite le respect des normes environnementales en matière de rejet et favorise la réutilisation de l'eau traitée dans l'usine de traitement.

De plus, il est proposé d'installer des fossés de dérivation d'eau sans contact dans la halde 002 afin de détourner les eaux de ruissellement de la superficie du site pendant les quatre premières années d'exploitation de la mine.

L'ensemble des infrastructures de gestion de l'eau associées aux haldes 001 et 002 est respectivement illustré dans les dessins CASN-A-370-GT-DWG-0001 et CASN-A-370-GT-DWG-0002. Les spécifications détaillées de conception de chaque composant sont fournies dans les sections suivantes.

5.3.2 Fossés de collecte des eaux de contact périphériques

5.3.2.1 Approche de conception

Un ensemble de fossés de collecte a été conçu pour recueillir les eaux de ruissellement produites dans chaque zone de stockage. Pour la halde 01, les fossés 01-01, 01-02, 01A-01 et 01A-02 recueillent les eaux de ruissellement de surface et les acheminent vers les bassins 01 et 01A. De même, pour la halde 02, les fossés 02-01, 02-02, 03-01 et 03-02 dirigent les eaux de ruissellement vers les bassins 02 et 03. En raison de la présence de stériles générateurs d'acide et de résidus dans la halde 02, les fossés seront revêtus d'une géomembrane en polyéthylène linéaire à basse densité (LLDPE) de 1,5 mm. Tous les fossés sont conçus pour supporter un débit de pointe produit par des précipitations estivales centennales, avec une hauteur libre minimale de 0,6 m. Le débit de conception a été estimé à l'aide de la méthode rationnelle :

$$Q_p = 0.28 \times C \times i \times A \quad (1)$$

Où :

- Q_P: estimation du débit de pointe (m^3 /s) ;
- A: La superficie du bassin versant contributeur (km^2) ;
- i: l'intensité d'averse type (mm/h), égale à 91,2 mm/h en 15 min (AtkinsRéalis, 2025c), et
- C: le coefficient de ruissellement. Une valeur de 0,25 a été choisie pour refléter les conditions de haute perméabilité des stériles miniers de NAG.

De plus, la profondeur des fossés fournis par les remblais est conçue pour empêcher le débordement lors d'événements extrêmes pouvant atteindre le débit maximal probable (DMP). Cette approche conservatrice garantit l'intégrité des remblais et minimise le risque de déversement incontrôlé lors de conditions météorologiques très extrêmes.

Les caractéristiques hydrauliques correspondant au débit de conception ont été obtenues à l'aide de la formule de Manning :

$$Q = \left(\frac{1}{n}\right) * A * R^{\frac{2}{3}} * S_0^{\frac{1}{2}} \quad (2)$$

Où :

- Q: le débit (m^3 /s);
- n: le coefficient de rugosité de Manning (une valeur de 0,035 a été prise en compte);
- A: la section d'écoulement (m˟);
- R: le rayon hydraulique (m), et
- S_0: la pente du canal (%).

Afin de protéger contre l'érosion causée par les écoulements à grande vitesse, un géotextile de séparation et un revêtement en enrochement ont été incorporés le long des fossés. La taille et l'épaisseur minimales requises pour l'enrochement ont été déterminées en fonction des vitesses d'écoulement, conformément aux directives fournies dans le MTQ (2024).

5.3.2.2 Résultats

Les spécifications détaillées des fossés de collecte périphériques conçus autour des haldes 01 et 02 sont présentées respectivement dans le **Tableau 5-8** et **Tableau 5-9**.

Tableau 5-8 Configuration des fossés de collecte d'eau de contact dans la halde 01

Paramètres	Unité	Fossé 01-01	Fossé 01-02	Fossé 01A-01	Fossé 01A-02
Emplacement de la sortie	[-]	Étang 01	Étang 01	Étang 01A	Étang 01A
Géométrie	[m]	Trapézoïdale	Trapézoïdale	Trapézoïdale	Trapézoïdale
Largeur inférieure	[m]	1,5 à 2,0	1,5	2,0	1,5
Pente latérale	[H:V]	2:1	2:1	2:1	2:1
Longueur approximative du fossé	[m]	1 500	800	1 000	900
Pente longitudinale	[%]	0,5 à 11,9	0,5 à 8,0	0,5 à 4,9	0,9 à 6,1
Profondeur minimale	[m]	1,0 à 1,2	1,0	1,0	1,0
Taille des enrochements (D50)	[mm]	200 à 300	200	200	200
Épaisseur de la couche d'enrochement	[m]	0,3 à 0,45	0,3	0,3	0,3

Tableau 5-9 Configuration des fossés de collecte d'eau dans la halde 02

Paramètres	Unité	Fossé 02-01	Fossé 02-02	Fossé 03-01	Fossé 03-02
Emplacement de la sortie	[-]	Étang 02	Étang 02	Étang 03	Étang 03
Géométrie	[m]	Trapézoïdale	Trapézoïdale	Trapézoïdale	Trapézoïdale
Largeur inférieure	[m]	2,5	1,5 à 3,0	2,0 à 5,0	1,0
Pente latérale	[H:V]	3:1	3:1	3:1	3:1
Longueur approximative du fossé	[m]	1 000	1 600	4 200	400
Pente longitudinale	[%]	0,5 à 9,0	0,7 à 5,9	0,5 à 6,0	0,5 à 5,6
Profondeur minimale	[m]	1,5	1,1 à 1,3	1,2 à 2,2	1,0
Taille des enrochements (D50)	[mm]	200 à 300	200	200 à 300	200
Épaisseur de la couche d'enrochement	[m]	0,3 à 0,45	0,3	0,3 à 0,45	0,3

5.3.3 Bassins de collecte des eaux de contact

5.3.3.1 Approche de conception

Comme décrit dans la **Section 5.1**, les bassins de collecte des eaux de contact font partie intégrante du système de gestion de l'eau du site. Ils sont conçus pour collecter et transférer les eaux de contact vers l'installation de traitement de la zone industrielle afin qu'elles y soient traitées avant d'être rejetées dans l'environnement ou réutilisées dans l'usine de traitement.

Les eaux de ruissellement provenant de la halde 001 doivent être collectées par un ensemble de fossés périphériques et acheminées vers les bassins 01 et 01A. Ces bassins sont conçus pour offrir un temps de rétention adéquat et sont équipés de conduites d'aspiration stratégiquement placées afin d'optimiser l'élimination des matières en suspension totales (MES). L'eau traitée est ensuite pompée vers le bassin de polissage situé dans la zone industrielle, où un polissage final des MES est effectué afin d'améliorer encore la qualité de l'eau.

Pour la halde 002, qui contient des déchets rocheux et des stériles potentiellement générateurs d'acide (PGA) et de lixiviation des métaux (LM), les eaux de ruissellement sont également collectées via des fossés périphériques et dirigées vers les bassins 02 et 03. Ces bassins servent de première étape de confinement et de traitement avant que l'eau ne soit transférée vers la zone industrielle pour le traitement des métaux. Après traitement, l'eau peut être rejetée dans l'environnement ou réutilisée dans l'usine de traitement.

La conception de tous les bassins d'eau de contact est conforme à la directive 019 (MELCCFP, 2025), qui exige que les bassins soient capables de gérer les volumes d'eau de contact, y compris le volume d'inondation associé à la crue de conception environnementale (CCE). Les critères de CCE pour chaque composante de l'infrastructure sont les suivants :

- Halde 001 (bassins 01 et 01A) : précipitations sur 24 heures survenant une fois tous les 100 ans, combinées à une fonte des neiges survenant une fois tous les 100 ans sur 13 jours .
- Réserve 002 (bassins 02 et 03) : précipitations sur 24 heures survenant une fois tous les 2 000 ans, combinées à une fonte des neiges survenant une fois tous les 100 ans et s'étalant sur 13 jours.

Pour gérer la CCE, les bassins sont équipés de systèmes de pompage actifs, et un pompage d'urgence équivalent à deux jours de panne de pompe a également été pris en compte. La capacité de pompage a été déterminée pour correspondre au taux moyen de fonte des neiges sur 100 ans.

Les niveaux d'eau opérationnels dans les bassins ont été définis afin de garantir un fonctionnement fiable des pompes. Le niveau d'eau opérationnel bas est fixé de manière à maintenir une immersion suffisante pour le fonctionnement des pompes (par exemple, 0,3 m minimum), et le niveau d'eau opérationnel maximal inclut le ruissellement provenant d'un événement pluvieux estival de 24 heures survenant une fois tous les deux ans.

5.3.3.2 Résultats

Le **Tableau 5-10** résume les principaux paramètres de conception de tous les bassins. De plus, les courbes d'élévation-stockage des bassins sont également illustrées dans les figures W3 à W6 (voir l'**Annexe C**).

Tableau 5-10 Paramètres de conception des bassins de collecte d'eau de contact

Paramètres	Unité	Bassin 01	Bassin 01A	Bassin 02	Bassin 03
Halde associée	[-]	Halde01	Halde01	Halde02	Halde02
Zone de captage	[m2]	621 300	378 400	935 300	1 933 200
Altitude minimale	[m]	368,0	373,8	382,0	381,0
Niveau d'eau de fonctionnement bas (LOWL)	[m]	368,3	374,1	382,5	381,5
Niveau d'eau maximal d'exploitation (MOWL)	[m]	370,0	374,8	388,2	386,1
Niveau d'eau maximal CCE	[m]	371,5	376,5	391,4	389,7
Capacité de stockage en dessous du niveau maximal CCE	[m3]	80 142	52 201	137 300	293 200
Capacité de pompage maximale requise	[m3/h]	592	361	866	1 837

5.3.4 Déversoirs d'urgence

5.3.4.1 Approche conceptuelle

Afin d'assurer un fonctionnement sûr lors d'événements extrêmes, des déversoirs d'urgence sont intégrés à la conception de tous les bassins, y compris les bassins 01 et 01A (halde 01) et les bassins 02 et 03 (halde 02). Les déversoirs ont été conçus pour évacuer en toute sécurité les crues supérieures à la CCE, empêchant ainsi tout débordement et tout déversement incontrôlé.

Conformément à la directive 019 (MELCCFP, 2025), tous les déversoirs d'urgence sont conçus sur la base du débit de crue de référence (CCA), qui correspond à la crue maximale probable (PMF). L'hydrogramme CCA a été élaboré à partir de l'hydrogramme d'un événement de précipitations maximales probables (PMP) sur 72 heures et simulé à l'aide d'un modèle hydrologique construit dans le système de modélisation hydrologique (HEC-HMS) version 4.11, développé par le Corps des ingénieurs de l'armée américaine (USACE).

L'élévation du seuil des déversoirs d'urgence a été établie de manière à garantir que chaque bassin puisse contenir entièrement le volume de la CCE sans déclencher le déversoir. De plus, des revanches de 1 m (pour les bassins de la halde 01) et de 1,5 m (pour les bassins de la halde 02) ont été intégrées afin de tenir compte des incertitudes spécifiquement associées à l'estimation du niveau d'eau maximal de la CCE.

La section de contrôle de chaque déversoir d'urgence a été conçue sous forme trapézoïdale intégrant un déversoir à crête large. Les capacités de déversement ont été estimées à l'aide de l'équation standard du déversoir à crête large :

$$Q = C_w \cdot L \cdot H^{\frac{3}{2}} + 2 \cdot (\frac{2}{5} \cdot Z \cdot C_{ws} \cdot H^{\frac{5}{2}}) \quad (3)$$

Où :

- Q: Débit (m³/s) ;
- L: longueur effective du déversoir (m) ;
- H: hauteur d'eau au-dessus de la crête du déversoir (m) ;
- Z: Pente latérale de la section de contrôle du déversoir (H:1V) ;
- C_W: Coefficient de débit pour la section rectangulaire (centrale) du déversoir (égal à 1,7, valeur raisonnable pour les déversoirs à crête large) ;
- C_{WS}: Coefficient de débit pour la section latérale (en pente) du déversoir (égal à 1,7, valeur raisonnable pour les déversoirs à crête large).

Le dimensionnement a été réalisé à l'aide d'un processus itératif basé sur le routage des hydrogrammes CCA dans le réservoir, tout en garantissant le respect des exigences en matière de revanche dans les conditions CCA et CCE. Plus précisément, les sections de contrôle du déversoir ont été conçues pour maintenir une revanche minimale de 0,6 m au-dessus du niveau d'eau maximal CCA.

Compte tenu des contraintes topographiques du site, les chutes du déversoir ont été conçues pour évacuer en toute sécurité le débit de pointe associé à l'CCA. La géométrie des chutes et du déversoir (sections de contrôle) est similaire, de sorte que l'ensemble de la structure du déversoir conservera une section transversale homogène sur toute sa longueur. Les caractéristiques d'écoulement dans les chutes du déversoir ont été estimées à l'aide de l'équation de Manning (équation 2). La revanche minimale requise dans la chute du déversoir a été déterminée comme suit (USBR, 2022) :

$$Freeboard\ in\ chute\ (ft) = 2.0 + 0.025v\sqrt[3]{d} \quad (4)$$

Où :

- v: la vitesse moyenne (ft/s) ;
- d: la profondeur de l'eau dans la chute (ft).

Une protection en enrochement est intégrée à la conception des crêtes et des chutes du déversoir afin d'atténuer l'érosion causée par les écoulements à grande vitesse lors d'événements extrêmes. La taille et l'épaisseur minimales requises pour l'enrochement au niveau des sections de contrôle du déversoir ont été déterminées sur la base des directives fournies par le MTQ (2024). Pour les chutes du déversoir, le dimensionnement de l'enrochement a été effectué à l'aide de la méthodologie recommandée par la FEMA (2014). L'épaisseur minimale requise de la couche d'enrochement dans les chutes a été fixée à deux fois le diamètre médian des pierres (2 × D_{50}) afin d'assurer une stabilité adéquate.

5.3.4.2 Résultats

Les caractéristiques détaillées des sections de contrôle des déversoirs, l'élévation minimale de la crête du remblai et la protection par enrochement sont résumées dans le **Tableau 5-11** De plus, le **Tableau 5-16** résume les caractéristiques d'écoulement et les configurations conçues pour les chutes des déversoirs.

Tableau 5-11 Configuration de la section de contrôle des déversoirs d'urgence

Paramètres	Unité	Déversoir 01	Déversoir 01A	Déversoir 02	Déversoir 03
Halde associée	[-]	Halde 01	Halde 01	Halde 02	Halde 02
Bassin associé	[-]	Bassin 01	Bassin 01A	Bassin 02	Bassin 03
Déversoir Crête Géométrie de la crête	[-]	**Trapézoïdal**	**Trapézoïdal**	**Trapézoïdal**	**Trapézoïdal**
Longueur de la crête du déversoir	[m]	10	8	13	20
Pente latérale de la crête du déversoir	[H:V]	3:1	3:1	3:1	3:1
Hauteur du seuil du déversoir	[m]	371,65	376,65	391,55	389,85
Débit maximal CCA	[m^3 /s]	33,2	21,5	29,7	61,5
Débit maximal CCA	[m^3 /s]	11,7	9,9	18,6	22,8
Niveau d'eau maximal CCA	[m]	372,4	377,4	392,4	390,6
Altitude de la crête du barrage	[m]	373,0	378,0	393,0	391,2
Revanche CCA	[m]	0,6	0,6	0,6	0,6
Taille des enrochements (D50)	[mm]	200	200	200	200
Épaisseur de la couche d'enrochement	[m]	0,3	0,3	0,3	0,3

Tableau 5-12 Configuration des chutes des déversoirs d'urgence

Paramètres	Unité	Déversoir 01	Déversoir 01A	Déversoir 02	Déversoir 03
Halde associée	[-]	Halde 01	Halde 01	Halde 02	Halde 02
Géométrie de la goulotte	[-]	Trapézoïdale	Trapézoïdale	Trapézoïdale	Trapézoïdale
Largeur du fond de la goulotte	[m]	10	8	13	20
Pente latérale de la goulotte	[H:V]	3:1	3:1	3:1	3:1
Pente longitudinale de la goulotte	[%]	~14	~6	~8	~6
Profondeur minimale de la goulotte	[m]	1,1	1,1	1,2	1,1
Profondeur du flux de conception	[m]	0,3	0,4	0,4	0,7
Vitesse de débit nominale	[m/s]	3,3	2,6	3,1	2,7
Taille des enrochements (D50)	[mm]	300	300	300	300
Épaisseur de la couche d'enrochement	[m]	0,6	0,6	0,6	0,6

5.3.5 Fossés temporaires de dérivation d'eau sans contact

5.3.5.1 Approche de conception

Afin de séparer les eaux sans contact et les eaux de contact et de réduire le volume d'eau de contact nécessitant un traitement, des fossés temporaires de dérivation des eaux sans contact seront construits autour de la superficie de la halde 02 pendant les quatre premières années d'exploitation de la mine. Ces fossés ont été conçus pour intercepter les eaux de ruissellement propres et les détourner de la zone perturbée. Les eaux de ruissellement détournées seront acheminées vers le système de drainage naturel, ce qui minimisera la charge hydraulique sur l'infrastructure de gestion des eaux de contact et favorisera le respect des objectifs de protection de l'environnement.

Conformément à la règle empirique en vigueur dans l'industrie, les fossés de dérivation hors contact sont conçus en utilisant comme critère de conception un événement pluvieux survenant une fois tous les 25 ans. Le débit de conception a été estimé à l'aide de la méthode rationnelle (équation 1), en tenant compte des coefficients de ruissellement de 0,6 et 1,0, respectivement, pour les événements estivaux et printaniers. Les caractéristiques hydrauliques correspondant au débit de conception ont été déterminées à l'aide de l'équation de Manning, telle que présentée dans l'équation 2. Une revanche minimale de 0,3 m a été intégrée afin d'assurer un transport sûr et d'éviter tout débordement dans des conditions de tempête de conception. Afin de protéger contre l'érosion et de maintenir l'intégrité structurelle, un revêtement en enrochement est recommandé lorsque cela est nécessaire, la taille et l'emplacement étant déterminés sur la base des directives du MTQ (2024).

5.3.5.2 Résultats

Trois fossés de collecte périphériques temporaires ont été conçus avec une largeur de base de 2 m et des pentes latérales de 2:1 H:V. Chaque fossé est revêtu d'un géotextile de séparation et d'enrochement pour assurer la protection contre l'érosion. Ces fossés seront mis hors service à mesure que l'empreinte du stock s'agrandira.

5.4 Haldes de morts-terrains 04 et 05 et empilements organiques

5.4.1 Description

Les matériaux de recouvrement seront empilés dans quatre zones désignées :

- La halde à morts-terrains 004 situé au sud de la fosse, d'une superficie de 23 ha ;
- La halde à morts-terrains 005 situé au sud-est de la fosse, d'une superficie de 27 ha, et
- Deux haldes pour matériaux organiques situés au sud de la halde 01 et au nord de la zone industrielle, d'une superficie totale d'environ 11 hectares.

La gestion de l'eau de ces haldes repose sur le concept de bassins de rétention, où les eaux de ruissellement sont temporairement stockées pour permettre la décantation des sédiments avant d'être progressivement rejetées dans l'environnement.

5.4.2 Approche conceptuelle

Comme indiqué dans la section précédente, un système de bassins de rétention a été mis en place pour gérer les eaux de ruissellement provenant des halde à mort-terrains. Ce système consiste en des bassins de stockage temporaires formés par des digues construites à partir de remblais rocheux perméables à faible risque, stratégiquement placés autour des haldes afin d'intercepter les eaux de ruissellement chargées de sédiments. Les digues sont conçues pour contenir temporairement les eaux de ruissellement provenant de précipitations dont la période de retour est de 10 ans. Le volume de stockage prévu a été estimé à l'aide de la méthode rationnelle (équation 2), en appliquant un coefficient de ruissellement de 0,75. L'eau stockée se dissipe par la suite par infiltration ou évaporation.

5.4.3 Résultats

Une coupe transversale type des bassins de rétention est présentée dans le dessin CASN-A-370-GT-DWG-0005-B (**Annexe B**). Chaque bassin mesure environ 15 m de long et est entouré d'une digue d'une hauteur de 0,8 m. Ces caractéristiques offrent ensemble une capacité de confinement suffisante et permettent d'atteindre les performances hydrotechniques prévues.

5.5 Zone industrielle

5.5.1 Description

La zone industrielle sera située juste au nord-est de la fosse proposée, comme indiqué sur le dessin CASN-A-001-GE-DWG-0001-B (**Annexe B**). Dans ce secteur, toutes les infrastructures liées aux processus et au traitement seront développées, y compris le campement. Voici un aperçu des infrastructures de gestion de l'eau qui entrent dans le cadre de ce projet :

- Un bassin de polissage;
- Deux bassins de sédimentation;
- Deux bassins de contact, le bassin 1 et le bassin 2 ;
- Une usine de traitement des eaux (UTE décrite à la **Section 7.2**, et
- Une UTE pour les eaux de contact contaminées aux métaux, décrite à la **Section 7.2**.

Il convient de noter que les fossés de dérivation et les systèmes de drainage routier ne font pas partie du champ d'application du présent mandat.

5.5.2 Conception des bassins

5.5.2.1 Approche de conception

Dans le cadre de la stratégie de gestion de l'eau du site, un système de bassins interconnectés a été conçu pour gérer et traiter l'eau provenant de diverses sources. Le système comprend :

- Deux bassins de sédimentation pour le traitement primaire ;
- Deux bassins de collecte (BC1 et BC2) pour la capture des eaux de ruissellement, et
- Un bassin de polissage pour le traitement final et le stockage.

5.5.2.1.1 Critères généraux de conception des bassins de polissage et de sédimentation :

Les bassins de sédimentation et de polissage sont classés comme des ouvrages à conséquences significatives, conçus pour gérer les eaux de contact à faible risque et dotés de fonds étanchéisés afin d'empêcher les infiltrations. Leur dimensionnement permet d'accommoder un événement pluvieux d'une période de retour de 1 fois sur 1 000 ans (CCE) et comprend des déversoirs d'urgence conçus pour la crue maximale probable (PMP/PMF). Afin de garantir un fonctionnement sûr et sécuritaire, une revanche minimale de 1,0 m est maintenue au-dessus du niveau maximal de la CCE et de 0,6 m au-dessus du niveau maximal de la CCA.

5.5.2.1.2 Bassins de sédimentation

Deux bassins de sédimentation sont prévus dans le cadre de ce projet afin d'éliminer les solides en suspension de l'eau collectée dans divers secteurs, qui sera transférée à l'aide de systèmes de pompage. Les bassins de sédimentation se déverseront par gravité dans le bassin de polissage.

Les principaux apports par pompage vers les bassins de sédimentation sont les suivants :

- Assèchement de la mine à ciel ouvert ;
- Assèchement de la mine souterraine, et
- Ruissellement provenant de la zone industrielle (initialement collecté dans les bassins BC1 et BC2).

5.5.2.1.3 Bassins de collecte (BC)

Comme mentionné dans la **Section 4.2.2** , les critères de conception des bassins de collecte sont les suivants :

- Les bassins sont entièrement excavés et ne comportent aucun remblai de barrage ;
- La caractérisation de l'eau est considérée comme présentant un faible risque, et les deux bassins sont revêtus afin d'empêcher les infiltrations ;
- Le débit de référence pour les deux bassins est une fonte des neiges sur 13 jours avec une probabilité de 1 sur 100, suivie d'un événement pluvieux avec une probabilité de 1 sur 1 000 ; et
- une revanche minimale de 1,0 m est maintenue au-dessus du niveau d'eau maximal de la CCE.

Pendant les mois d'hiver, les bassins de collecte (BC1 et BC2) peuvent être vidés dans le bassin de polissage à l'aide d'une pompe diesel. Cette opération permet d'éliminer complètement les sédiments accumulés dans ces installations. Une approche similaire peut être appliquée à l'un des deux bassins de sédimentation. Étant donné l'absence d'apports en provenance des BC1 et BC2 pendant l'hiver, un seul bassin de sédimentation est nécessaire pour traiter les eaux de déshydratation. Ainsi, chaque hiver, l'un des bassins de sédimentation peut être vidé dans le bassin de polissage, ce qui permet d'éliminer les sédiments du fond et d'effectuer l'entretien courant.

5.5.2.1.4 Bassin de polissage

Comme indiqué, le bassin de polissage constitue la dernière étape du processus de traitement et remplit trois fonctions clés :

- Il regroupe tous les apports liés à l'exploitation minière, offrant ainsi un point de rejet unique ;
- Il assure le traitement final de l'eau avant son rejet, et
- Il sert de réserve d'eau douce pour l'usine de traitement et l'usine de pâte.

Les critères de conception pour le dimensionnement des bassins dans le cadre de l'étude de faisabilité étaient basés sur le temps de rétention hydraulique (HRT). Afin d'assurer une gestion adéquate de l'eau pendant l'inondation de conception environnementale (CCE), les bassins doivent fournir un HRT minimum de 16 heures dans les conditions de la CCE. Pour les bassins de sédimentation, le HRT a été augmenté à 18 heures afin d'améliorer les performances pendant la CCE.

5.5.2.2 Résultats

Le **Tableau 5-13** résume les résultats de la conception des bassins de sédimentation et du bassin de polissage.

Tableau 5-13 Bassins de la zone industrielle

Bassin	Apports	Pente des parois latérales	Superficie	Volume	Temps de rétention hydraulique (en fonctionnement normal)	Temps de rétention hydraulique (pendant CCE)
		(H:V)	(m2)	(m3)	(Hr)	(Hr)
Bassin de sédimentation 01	Assèchement de la fosse à ciel ouvert Assèchement de la mine souterraine	4:1	15 500	42 000	>37	>18
Bassin de sédimentation 02	Zone industrielle (BC1) Zone industrielle (BC2)	4:1	15 500	42 000	>44	>18
Bassin de polissage	Tout	1:1	32 000	140 000	>36	>16

Les principales caractéristiques des bassins sont décrites ci-dessous :

Les remblais des bassins seront principalement constitués de stériles, avec une couche de transition en pierre et une couche de sable en amont. Une largeur de crête de 10 m a été prévue avec une pente amont de 3H:1V et une pente aval de 2H:1V. Les pentes des digues amont et le bassin de rétention seront recouverts d'une géomembrane LLDPE texturée de 1,5 mm. La base des bassins est recouverte d'une couche de poids de 0,3 m d'épaisseur sur un géotextile de protection, tandis que les pentes recouvertes seront exposées. L'élévation des remblais des bassins est déterminée en appliquant des critères de revanche qui satisfont à la fois aux conditions CCE et CCA au-dessus des volumes de stockage requis prévus dans le **Tableau 5-13**. Plus précisément, la revanche requise est la plus grande des deux valeurs suivantes : 1,0 m au-dessus du niveau d'eau maximal CCE ou 0,6 m au-dessus du niveau d'eau maximal CCA. Le **Tableau 5-13** les résultats de la conception des bassins de sédimentation et du bassin de polissage.

- Chaque bassin de sédimentation comprend une rampe d'accès pour faciliter l'enlèvement périodique des sédiments accumulés.
- Chaque bassin de sédimentation est équipé d'un déversoir rectangulaire en béton pour acheminer les flux CCE et CCA vers le bassin de polissage afin d'éviter le débordement des bassins de sédimentation.
- Le bassin de polissage a été conçu pour évacuer les débits normaux via trois ponceaux de 36 pouces de diamètre à travers le barrage. Un déversoir de secours est également prévu dans la conception pour évacuer en toute sécurité les débits entrants dépassant la CCE. Le déversoir de secours a une configuration trapézoïdale avec un seuil en béton de 10 m de large dans le barrage. Le canal de décharge du déversoir nécessite une plate-forme pour fournir une pente de 18 %. Le canal de décharge comprend un géotextile de séparation avec un enrochement fourni comme protection contre l'érosion.

5.5.3 Déversoirs

5.5.3.1 Approche de conception

Pour la conception des déversoirs, la procédure décrite dans la **Section 5.5.2** a été prise en considération. La conception des bassins a été réalisée pour trois conditions : une dans des conditions hydrologiques normales ou de fonctionnement normal du système, et deux dans des conditions d'inondation, l'inondation de conception environnementale (CCE) et l'inondation de conception d'entrée (CCA). Pour estimer le débit sortant des bassins de sédimentation et de polissage, les résultats du bilan hydrique ont été utilisés, en supposant que l'effluent représente au maximum 30 % du débit de la source (rivière CE 15).

Comme le montre le **Tableau 5-14**, les structures des bassins de sédimentation et de polissage reçoivent des apports provenant de deux sources : le débit des pompes et les précipitations directes provenant de leurs surfaces de drainage. Dans des conditions hydrologiques normales, on suppose que les pompes fonctionnent à 40 % de leur capacité maximale (comme décrit à la **Section 7.3**). Pour les scénarios CCE et CCA, on a supposé une capacité maximale des pompes (efficacité de 100 %).

Pour les précipitations directes, un événement pluvieux d'une fréquence de 1 fois tous les 2 ans a été utilisé comme critère conservateur pour les conditions normales. Pour le scénario CCE, un événement pluvieux d'une fréquence de 1 fois tous les 1 000 ans a été pris en compte, tandis que, pour le scénario CCA, la précipitation maximale probable (PMP) a été utilisée. Ces bases sont également résumées dans le **Tableau 5-14**.

Tableau 5-14 Scénarios pris en compte pour le calcul du débit pour chaque condition hydrologique

Scénario/Source	Conditions normales	CCE	CCA
Capacité de pompage	40 % de l'efficacité maximale	100 % de l'efficacité maximale	100 % de l'efficacité maximale
Précipitations directes sur les étangs	1 précipitation de période de retour de 2 ans	1 précipitation de période de retour de 1 000 ans	PMP (5 min)

Le déversoir fonctionnera comme une structure unique, à la fois opérationnelle et d'urgence. Il permettra donc le passage de tous les débits de crue vers le PMF. Le **Tableau 5-15** résume le débit sortant pour chaque scénario hydrologique pour les bassins de sédimentation et de polissage.

Tableau 5-15 Débit source vers le bassin de sédimentation et le bassin de polissage dans les conditions hydrologiques prévues

	Conditions normales (m^3 /s)	CCE (m^3 /s)	CCA (m^3 /s)
Bassin de sédimentation 1	0, 6	1,4	5,1
Bassin de sédimentation 2	0,5	1,5	5, 3
Bassin de polissage	1, 9	5,7	20. 9

Pour la conception des déversoirs, une simulation de l'écoulement des crues à travers les structures a été utilisée. Pour cela, le type de déversoir à crête large a été appliqué aux bassins de sédimentation et de polissage. Pour le bassin de sédimentation, la section rectangulaire est conçue, et pour le bassin de polissage, la section trapézoïdale est envisagée. La formule à crête large est présentée et décrite dans la **Section 5.3.4** .

La conception a intégré des critères de revanche afin d'éviter tout débordement. Plus précisément, une revanche minimale de 1,0 m a été établie pour le scénario CCE, tandis qu'un minimum de 0,6 m a été fixé pour le scénario CCA, mesuré à partir de la crête du déversoir. Ces critères ont été mis en œuvre afin de garantir une conception optimale et robuste.

5.5.3.2 Résultats

Le **Tableau 5-16** résume les résultats de la conception des déversoirs. Il convient de noter que la même conception de déversoir a été appliquée aux deux bassins de sédimentation, car la différence entre les débits sources des deux bassins est négligeable (par exemple, le débit total de l'CCA vers le bassin de sédimentation 1 est de 5,1 m3/s, tandis que la valeur correspondante pour le bassin de sédimentation 2 est de 5,3 m^3/s).

Tableau 5-16 Caractéristiques des déversoirs et des débits associés dans les bassins de sédimentation et le bassin de polissage

		Bassins de sédimentation	Bassin de polissage
	Seuil du déversoir (m)	381,8	381,4
	Hauteur de crête suggérée	383	382,4
	Largeur du fond (m)	5	10
	Pente latérale	0H:1V (rectangulaire)	3H:1V (trapézoïdale)
	Élévation de la crête (m)	383	382,4
CCE	Niveau d'eau maximal (m)	382	Utilisation de 3 ponceaux, passage normal et CCE[1]
	Profondeur maximale de l'eau (m)	0,2	
	Débit de pointe (m^3/s)	0,8	
	Revanche (m)	1	
CCA	Niveau d'eau maximal (m)	382,2	381,8
	Profondeur maximale de l'eau (m)	0,4	0,4
	Débit maximal (m^3/s)	1,8	5,7
	Revanche (m)	0,8	0,6

Remarques :

(1) Trois ponceaux circulaires adjacents avec une élévation de fond en amont de 380,5 et un diamètre de 0,9 m.

6. Dérivation du lac 01 vers la mine à ciel ouvert

6.1 Description

La mine à ciel ouvert proposée sera développée à l'extrémité ouest du lac 01. Un fossé de dérivation et des barrages seront inclus dans la conception afin de détourner en toute sécurité les écoulements du lac pendant le développement et l'exploitation de la mine. Ce système isolera la mine de la partie est du lac et permettra de gérer les sédiments et les eaux de ruissellement pendant les deux phases d'expansion, à savoir les phases ouest et est de la mine. La conception est conforme aux réglementations environnementales et minimise les risques opérationnels.

Le système comprend les éléments clés suivants :

- Un fossé de dérivation, construit en une seule phase (année 2), pour détourner les écoulements du lac 001 autour de la mine à ciel ouvert et maintenir la continuité du drainage naturel pendant toute la durée de vie de la mine ;
- Une série de digues, construite en deux étapes (initialement pour la phase de la fosse ouest, puis étendues pour la phase de la fosse est) afin d'isoler la fosse des apports d'eau en amont du lac, et
- des zones de gestion des sédiments et de l'eau dans le lit asséché du lac, conçues pour contrôler le ruissellement et le transport des sédiments à l'aide de bermes, de systèmes de pompage et de stratégies de confinement localisées.

Ensemble, ces éléments forment une stratégie intégrée de gestion de l'eau qui favorise la sécurité des opérations de la fosse, protège la qualité de l'eau en aval et facilite le développement progressif de l'exploitation minière. La disposition du système de gestion de l'eau du lac 001 est illustrée dans le dessin CASN-A-327-GE-DWG-0001.

Les sections suivantes fournissent des détails supplémentaires sur la conception hydrotechnique de chaque composante de l'infrastructure.

6.2 Fossé de dérivation et digues

Le fossé de dérivation est conçu pour acheminer de manière sécuritaire les débits normaux et de crue, y compris la crue maximale probable (CMP), conformément à la directive 019 (MELCCFP, 2025). Il aura une longueur totale d'environ 870 m, une base d'une largeur de 5 m et une pente moyenne d'environ 0,3 % (dessin CASN-A-327-WM-DWG-0003 à l'**Annexe B**). La majeure partie du fossé sera creusée à l'explosif dans le roc, ce qui explique que les pentes latérales soient à 1:1 H:V. L'alignement du canal a été sélectionné de manière à maintenir un décalage minimum de 45 m par rapport à la fosse, de 60 m par rapport aux lacs 02 et 03, et de 10 m par rapport au lac 04.

Les digues sont construites en deux étapes, d'abord pour la phase de la fosse ouest, puis étendues pour la phase de la fosse est, afin d'isoler progressivement la fosse des apports en amont du lac à mesure que la mine se développe (voir le dessin CASN-A-327-WM-DWG-0001 à l'**Annexe B**). Ces digues sont conçues pour retenir l'eau dans des conditions normales et extrêmes, y compris lors du PMF, en maintenant une revanche minimale de 1,5 m afin d'assurer un confinement sûr lors d'inondations extrêmes sans débordement.

6.2.1 Crue de conception

Comme indiqué dans la **Section 4.2.3**, la crue maximale probable (CMP) est la crue de conception adoptée pour le dimensionnement du fossé de dérivation et des digues. Une modélisation hydrologique conceptuelle a été réalisée pour estimer les apports du CMP au lac 001. Le modèle a été mis en place et développé dans le système de modélisation hydrologique (HEC-HMS) version 4.11, développé par le Corps des ingénieurs de l'armée américaine (USACE)[1]. Les outils SIG du HEC-HMS ont été utilisés pour délimiter le bassin versant contributeur, qui a une superficie d'environ 106 km² (figure W7). Cette délimitation a été effectuée à partir d'un modèle numérique d'élévation (MNE) de la Shuttle Radar Topography Mission (SRTM) d'une résolution de 30 m. Le modèle a utilisé les précipitations maximales probables (PMP) estivales sur 72 heures, soit 386,6 mm (AtkinsRéalis, 2025c). L'hydrogramme CMP simulé est illustré à la figure W9. Les résultats montrent que le débit maximal vers le lac est d'environ 536 m³/s. Cet hydrogramme sert de base à la conception hydraulique du canal de dérivation et à l'établissement des hauteurs minimales de crête des digues.

6.2.2 Conception hydraulique du fossé de dérivation et des digues

La conception de la géométrie du fossé de dérivation et l'établissement de l'élévation minimale requise pour la crête des digues de coupure ont été réalisés à l'aide d'un processus itératif de transit de réservoir, utilisant l'apport de la CMP décrit à la **Section 6.2.1**. L'analyse de transit a été réalisée à l'aide de la courbe de stockage en fonction de l'élévation du lac 001 en amont du fossé de dérivation (figure W8), ainsi que de la courbe de calibration canal de dérivation proposé et développée l'aide du logiciel HEC-RAS (**Tableau 6-1**). L'hydrogramme de la CMP a été acheminé à travers le lac afin de déterminer le niveau d'eau maximal et le débit de pointe pendant l'événement de conception.

Les résultats de l'analyse de transit du réservoir, basée sur les configurations conçues du fossé de dérivation, sont présentés dans la figure W9. L'élévation d'inversion du fossé de dérivation a été fixée à 373,0 m au-dessus du niveau de la mer, ce qui correspond à la sortie actuelle du lac. La géométrie du fossé a été optimisée par des ajustements itératifs afin de s'adapter au débit acheminé tout en maintenant une revanche minimale de 1,5 m par rapport au niveau d'eau maximal obtenu lors de l'exercice d'acheminement. Cela permet d'établir les crêtes des digues de séparation. La configuration finale du canal de dérivation et les élévations minimales correspondantes des crêtes des digues sont résumées dans le **Tableau 6-1**. La profondeur du fossé a été déterminée de manière à respecter la revanche requise de 0,6 m pendant le pic de débit le long du fossé. Les détails des profils et des sections du fossé de dérivation sont présentés dans le dessin CASN-A-327-WM-DWG-0003-A (**Annexe B**).

[1] *Le numéro de courbe du Soil Conservation Service (SCS) et les méthodes hydrographiques Clark Unit ont été utilisés pour simuler le processus de ruissellement des eaux pluviales.*

Tableau 6-1 Configuration hydrotechnique du fossé de dérivation et des digues

Paramètres	Unité	Valeur
Largeur de base du fossé de dérivation	[m]	5
Pente latérale de la crête du fossé de dérivation	[H:V]	1:1
Hauteur de fond du fossé de dérivation	[m]	373,0
Pente longitudinale du fossé de dérivation	[%]	0,3
Débit de pointe CCA	[m^3 /s]	94,9
Niveau d'eau maximal de l'CCA	[m]	377,0
Élévation minimale de la crête des digues de coupure	[m]	378,5

6.2.3 Considérations relatives à la conception des habitats et des passes à poissons

Le fossé de dérivation remplacera le cours d'eau naturel existant qui draine du lac 001 vers la rivière CE 15. La conception du fossé doit donc reproduire les conditions hydrauliques du cours d'eau naturel afin de maintenir l'habitat du poisson et d'assurer le passage des poissons (PMET, 2025b). Pour ce faire, une série de seuils et de bassins sera aménagée le long du lit du fossé afin de créer des écoulements rapides et des profondeurs d'eau adéquates, tant en amont qu'en aval des seuils... Il est recommandé d'installer des blocs rocheux entre les sections du fossé où les vitesses sont élevées afin d'offrir un abri aux poissons pendant leur migration ascendante. La figure W11 présente une représentation schématique du fossé de passage à poissons proposé. La comparaison entre les résultats de la modélisation hydraulique et les mesures sur le terrain a montré que les vitesses aux profondeurs du fossé de dérivation se situent dans une fourchette de valeurs similaire à celles mesurées dans le cours d'eau naturel.

6.3 Stratégie de gestion des sédiments et de l'eau du lac 001

L'assèchement du lac 001, réalisé dans le cadre du développement progressif de la fosse, a nécessité une stratégie progressive de gestion des sédiments et de l'eau afin d'atténuer les risques environnementaux et de maintenir l'efficacité opérationnelle. Des stratégies distinctes ont été élaborées pour les phases ouest et est de la fosse, en fonction de l'évolution de l'empreinte de la fosse et des changements associés dans les schémas de drainage, la topographie et la bathymétrie à l'intérieur des limites d'origine du lac.

La phase de la fosse ouest consiste à assécher la partie ouest du lac 001 après la construction des digues de la fosse ouest. La zone asséchée est divisée en deux zones, ouest et est, par une berme (barrage de contrôle des sédiments 1) construite à un endroit étroit et peu profond de l'ancien lit du lac (figure W12).

- Dans la zone est : les sédiments doivent être retirés afin d'empêcher leur mobilisation dans la fosse. Le ruissellement provenant de cette zone s'écoulera directement dans la fosse et sera transféré vers les bassins de la zone industrielle pour traitement des matières en suspension.

- Dans la zone ouest : il est proposé de laisser les sédiments en place. Pour empêcher le ruissellement chargé en sédiments d'atteindre la fosse, une berme perméable et un système de pompage seront installés. Ce système est conçu pour gérer les volumes de ruissellement associés à une crue de période de retour de 10 ans, l'eau étant pompée vers le bassin de sédimentation de la zone industrielle avant rejet environnemental.

La phase Est de la fosse prolonge la fosse à ciel ouvert d'environ 1,4 km vers l'est, ce qui nécessite la construction de trois digues de coupure supplémentaires et la mise en place de mesures supplémentaires de gestion des sédiments et de l'eau dans trois zones : Nord, Centre et Sud (figure W12).

- Dans les zones nord et centrale : les sédiments seront retirés afin d'éliminer les risques de mobilisation. Le ruissellement sera dirigé vers la fosse, puis pompé vers la zone industrielle pour y être traité.
- Dans la zone sud : les sédiments resteront en place. Une berme (digue de contrôle des sédiments 2) sera construite à un endroit étroit et peu profond afin d'isoler la zone et d'empêcher le transport des sédiments vers la fosse. Cette berme est conçue pour contenir les eaux de ruissellement provenant d'événements dont la période de retour est de 10 ans. Un système de pompage gérera les eaux de ruissellement en les dirigeant vers le bassin de sédimentation pour le contrôle des MES avant leur rejet dans l'environnement.

Les deux digues de contrôle des sédiments sont conçues pour empêcher les eaux de ruissellement chargées de sédiments d'accéder à la fosse et pour gérer les eaux de surface lors d'événements pluvieux. Les bermes, construites principalement à partir de stériles perméables, sont conçues pour contenir temporairement les eaux de ruissellement provenant d'événements pluvieux d'une période de retour de 10 ans et pour résister au débordement lors d'événements extrêmes moins fréquents. Les principaux paramètres de conception des bermes de contrôle des sédiments et les capacités de pompage requises sont résumés dans le **Tableau 6-2**.

Tableau 6-2 Configuration de la conception des bermes de contrôle des sédiments

Paramètres	Unité	Barrage de contrôle des sédiments 1 (ouest)	Barrage de contrôle des sédiments 1 (sud)
Bassin versant	[km^2]	0,35	0,34
Niveau d'eau maximal (tempête de 24 heures sur 10 ans)	[H:V]	372,4	372,5
Hauteur de la crête	[m]	372,5	372,5
Largeur de la crête	[m]	5,0	5,0
Pente côté aval	[H:V]	1,5	1,5
Pente côté amont	[H:V]	1,5	1,5
Capacité de pompage	[m^3 /h]	230	580

6.4 Analyse de stabilité des digues du lac 01

La construction des digues de séparation sera réalisée en deux phases, parallèlement au développement de la fosse. Pour la phase de la fosse ouest, un seul barrage est nécessaire dans le lac 001. Une partie de ce barrage s'étendra sur les terres sèches adjacentes au lac 001 afin d'empêcher les eaux de crue de contourner la structure. Dans le cadre de la phase de la fosse est, quatre barrages supplémentaires seront nécessaires dans le lac 001, situé à l'est du barrage West Pit. La construction des barrages nécessite l'enlèvement des sédiments lacustres des fondations.

AtkinsRéalis a réalisé des analyses de stabilité et d'infiltration afin d'évaluer la faisabilité de la digue, comme détaillé dans la sous-section suivante.

6.4.1 Évaluation de la stabilité

La digue de séparation du lac 001 est conçue avec deux sections transversales principales : l'une correspondant à la section traversant le plan d'eau (la section critique) et l'autre à la section située en terrain sec. Des analyses de stabilité des pentes ont été réalisées sur la section critique (phase de la fosse est), comme illustrées dans le dessin n° CASN-A-327-WM-DWG-0001-A (**Annexe B**), où l'on dispose d'une quantité relativement plus importante d'informations sur les forages (BH). Dans cette section, une couche de gravier sert de recouvrement sur le roc, et la profondeur de l'eau est de 4,4 mètres.

Les analyses ont été réalisées à l'aide du logiciel SLOPE/W version 2023.1.2, un logiciel d'équilibre limite bidimensionnel développé par Geo-Slope International Limited. La méthode Morgenstern-Price a été utilisée pour identifier les surfaces de rupture potentielles dans les pentes des haldes et leurs fondations sous-jacentes. Ces analyses visaient à déterminer les surfaces de rupture les plus critiques donnant le facteur de sécurité (FS) le plus conservateur. Le FS est le rapport entre la résistance moyenne au cisaillement (force de résistance) et la contrainte de cisaillement moyenne mobilisée (force motrice) le long d'une surface de rupture spécifique.

Les sous-sections suivantes fournissent des informations détaillées sur la géométrie de la digue, les propriétés des matériaux, les scénarios de chargement et la surface phréatique utilisés dans le modèle, ainsi qu'une discussion des résultats de l'analyse de stabilité.

6.4.1.1 Géométrie du modèle

La géométrie de l'une des sections critiques est illustrée dans le dessin n° CASN-A-327-WM-DWG-0001-A. Comme le montre le dessin, la largeur de la crête de la digue est conçue pour être de 6,0 mètres. Les pentes amont et aval des digues auront une inclinaison de 3 horizontaux pour 1 vertical (3H:1V). Les deux bermes de pied, qui mesurent 6 mètres de largeur tant en amont qu'en aval, auront une pente de 2,5 horizontal pour 1 vertical (2,5H:1V). La partie supérieure de la paroi en palplanches sera nivelée à une altitude de 378,1 mètres au-dessus du niveau de la mer (m.a.s.l.). Une couche supplémentaire de 0,3 mètre de matériau de revêtement routier sera placée au sommet, ce qui donnera une altitude finale de la crête du barrage de 378,4 m.a.s.l.

Une fois achevées, ces digues seront percées ou leur hauteur sera réduite pour permettre l'écoulement dans la fosse à ciel ouvert.

6.4.1.2 Facteur de sécurité minimal

AtkinsRéalis a classé les digues conformément aux lignes directrices de l'ACB en matière de sécurité des barrages et à la Loi sur la sécurité des barrages du Québec. La classification de l'ACB est principalement basée sur la « population à risque » située en aval. Dans des conditions d'exploitation normales, le site comptera entre 50 et 500 travailleurs, ce qui se traduit par une classification de danger « extrême » pour le barrage. La Loi sur la sécurité des barrages du Québec le classe dans la « classe C », avec une valeur P de 58.

Cette classification détermine la période de retour des événements sismiques et CCA utilisé dans la conception du barrage. Pour un barrage classé « extrême », les lignes directrices de la CDA de 2019 et du MELCCFP 2025 exigent une période de retour de 1 sur 10 000 ou le séisme maximal crédible. La CCA est définie comme le débit de CMP qui tient compte des précipitations maximales probables (PMP). Une revanche minimale de 1,5 m a été prise en compte pour la conception de la CCA, conformément à la Loi sur la sécurité des barrages du Québec.

Plusieurs conditions de charge ont été testées afin d'établir les configurations stables nécessaires à la digue.

Le tableau ci-dessous résume les facteurs de sécurité minimaux requis dans différentes conditions de charge. Vous trouverez plus de détails dans le mémorandum sur les critères de conception (CASN-A-370-GT-DCR-0001).

6.4.1.3 Piézomètre et conditions de charge

6.4.1.3.1 Fin de la construction (FC)

La digue de séparation sera construite sous l'eau, et l'élévation du niveau phréatique à la fin des travaux a été modélisée au niveau normal de l'eau (NNE) du lac existant adjacent, tant en amont qu'en aval. Un facteur de sécurité (FS) cible minimum de 1,3 a été établi pour les conditions statiques à court terme, comme indiqué dans le **Tableau 6-4**.

6.4.1.3.2 Crue prévue (à court terme)

Lors d'un événement de crue projeté, il est supposé, par approche conservatrice, que la surface phréatique de la digue s'aligne sur le niveau de la CCA du lac, tant du côté amont que du côté aval de la digue. Un facteur de sécurité (FS) minimal ciblé de 1,3 a été établi pour les conditions statiques à court terme, comme illustré dans le **Tableau 6-4**.

6.4.1.3.3 Pendant l'opération (à long terme)

Dans les conditions opérationnelles, la surface phréatique en amont de la digue est supposée correspondre au niveau d'eau normal (NWL) du lac situé en amont. La surface phréatique en aval a été modélisée à la surface du sol et, de manière plus conservatrice, à un niveau plus élevé à l'intérieur de la digue. Un facteur de sécurité (FS) minimal ciblé de 1,5 a été établi pour les conditions statiques à long terme, comme indiqué dans le **Tableau 6-4**.

6.4.1.3.4 Rabattement

Les scénarios de rabattement rapide n'ont pas été analysés pour la digue de séparation, car si l'abaissement du niveau d'eau se produit rapidement du côté aval, la pression interstitielle a peu de chances de demeurer à l'intérieur de la digue. Cela s'explique par le fait que les matériaux de remblai se drainent rapidement, en supposant un facteur de temps sans dimension (T) supérieur à 3. Une valeur de T ($=\frac{C_v t}{D^2}$) supérieure à 3 ne nécessite pas d'analyse de rabattement rapide, où Cv représente le coefficient de consolidation, le temps associé au rabattement et D la distance de drainage.

6.4.1.3.5 Analyse pseudo-statique

Une analyse pseudo-statique a été réalisée pour évaluer la stabilité dynamique de la digue. Le site est classé dans la catégorie D selon le Manuel canadien des fondations, avec un coefficient d'accélération sismique horizontale (K_h) de 0,1 g (50% du PGA, extrapolé à partir du CNB (2020) pour un événement survenant une fois tous les 10 000 ans) (HPC : extrême) utilisé dans les analyses pseudo-statiques. Un facteur de sécurité (FOS) minimal de 1,1 a été établi pour les conditions pseudo-statiques, comme indiqué dans le **Tableau 6-4**.

6.4.1.3.6 Post-sismique

On suppose que les matériaux sableux limoneux et limoneux sableux meubles présents dans les fondations du barrage seront complètement éliminés pendant la construction, garantissant ainsi que les fondations ne sont pas susceptibles de se liquéfier dans des conditions statiques et sismiques. Par conséquent, aucune analyse post-liquéfaction n'a été effectuée.

6.4.1.4 Propriétés des matériaux

Les paramètres de densité et de résistance des matériaux utilisés dans les analyses de stabilité ont été établis par AtkinsRéalis à partir des investigations géotechniques réalisées par BBA (BBA, 2024) dans le lac 001. Lorsque les données issues des essais de terrain ou de laboratoire n'étaient pas disponibles, des hypothèses ont été formulées en s'appuyant sur l'expérience d'AtkinsRéalis avec des matériaux similaires. Le **Tableau 6-3** résume les paramètres et les modèles des matériaux utilisés dans cette étude. Une description détaillée des propriétés de ces matériaux est fournie dans les sous-sections suivantes.

Tableau 6-3 Propriétés mécaniques pour les analyses de stabilité des pentes

Description du matériau	γ (kN/m^3)	C' (kPa)	Φ' (˚)	Type de modèle
Stérile (-450 mm)	20	0	38	Mohr Coulomb
Pierre concassée (-75 mm)	19	0	32	Mohr Coulomb
Granulaire B de type II	19	0	32	Mohr Coulomb
Roc	Impenetrable			Mohr Coulomb
Gravier (GW)	19	0	3	Mohr Coulomb
Gravier sableux (GP-GM)	19	0	35	Mohr Coulomb
Sable limoneux (SM)	17,8	0	3	Mohr Coulomb
Sable limoneux (ML)	16,5	0	29	Mohr Coulomb

6.4.1.4.1 Fondations

BBA Engineering Ltd. a mené une étude géotechnique afin d'évaluer les conditions du sous-sol sur le site (BBA, 2024). Au total, soixante et un (61) forages ont été réalisés pour des essais sur le terrain, notamment des essais de pénétration standard (SPT) et des analyses en laboratoire. Parmi ces forages, six (6) ont été réalisés dans le lac 001. L'objectif principal de ces forages était de déterminer la stratigraphie et d'évaluer les propriétés du sol de fondation.

Les échantillons de sol sélectionnés ont été analysés au laboratoire d'Englobe à Montréal, où des essais ont été effectués pour évaluer la granulométrie, la teneur en eau, la densité et la résistance à la compression uniaxiale (RCU). Des évaluations supplémentaires ont été menées afin de déterminer le module d'élasticité et le coefficient de Poisson. AtkinsRéalis a analysé les rapports de forage réalisés par BBA, ainsi que les données des essais en

laboratoire issus de l'étude, afin d'élaborer des profils de sol pour le site conformément au système unifié de classification des sols (USCS) et aux normes ASTM D2487-17 (AtkinsRéalis, 2025a). AtkinsRéalis a interprété les « valeurs N » obtenues à partir du SPT de BBA afin de fournir des recommandations concernant les propriétés matérielles des unités de sol classées.

D'après les interprétations d'AtkinsRéalis, les fondations sous l'empreinte de la digue de séparation sont constituées de silt/limon sableux silt/silt avec gravier (ML). Sous la couche ML, une unité de sable limoneux/sable limoneux avec gravier (SM) a été identifiée. Sous cette couche SM se trouve une unité de gravier limoneux avec sable/gravier avec limon et sable (GM), suivie d'une unité de gravier (y compris des galets) (GW), qui est située au-dessus du roc. Les angles de frottement estimés à 29º, 31º, 35º et 36º, ainsi que les poids unitaires de 16,5, 17,8, 19 et 19 kN/m³, ont été dérivés de l'analyse des « valeurs N » SPT pour ML, SM, GM et GW, respectivement, et ont été utilisés dans le modèle.

6.4.1.4.2 Matériaux de remblayage

La construction de la digue nécessite différents matériaux de remblayage. La zone centrale, appelée zone 1, est constituée de roches concassées qui facilitent l'installation des palplanches. Les matériaux de remblayage de la zone 1 ont une taille maximale de particules de 75 mm. La structure principale des barrages est construite avec des enrochements chimiquement inertes (NPGA), appelés zone 2. Les matériaux de la zone 2 ont une taille maximale de particules de 450 mm. Ces enrochements de la Zone 2 assurent la stabilité nécessaire au barrage. De plus, une couche d'usure (matériau granulaire de type II, appelé Zone 4) sera placée au sommet de la crête du barrage afin de garantir l'accès des véhicules pour les inspections.

À l'heure actuelle, aucune donnée de laboratoire n'est disponible pour les matériaux de remplissage. Pour le modèle, des angles de frottement effectifs de 38°, 32° et 32° ont été attribués, ainsi que des poids unitaires de 20, 19 et 19 kN/m³ pour les stériles (taille de -450 mm), les pierres concassées (taille de -75 mm) et le granulaire B de type II, respectivement. Ces valeurs sont basées sur l'expérience antérieure d'AtkinsRéalis avec des matériaux similaires et ont été attribuées de manière prudente.

6.4.1.4.3 Roc

Les surfaces de rupture de la pente ne sont pas supposées traverser le roc. Par conséquent, celle-ci est modélisée comme impénétrable et aucun paramètre de modèle n'a été attribué.

6.4.1.5 Résultats de l'analyse de stabilité

Le **Tableau 6-4** résume les résultats des analyses de stabilité, qui ont été réalisées à l'aide de la méthode des blocs et de la méthode d'entrée-sortie. La méthode d'entrée-sortie (non circulaire) a donné un coefficient de sécurité (FS) plus faible, c'est pourquoi les conclusions sont basées sur cette méthode. Les résultats détaillés sont présentés dans l'**Annexe D** des figures S1 à S8.

Dans le cas des niveaux d'eau à la fin de la construction (FC) et de la CCA, le FS est identique pour les côtés amont et aval du barrage. Cela s'explique par la symétrie de la structure et les niveaux d'eau similaires des deux côtés du barrage. Cependant, dans le cas de conditions à long terme et pseudo-statiques, le FS pour la phase amont est inférieur à celui pour la phase aval. Cette différence est attribuée au niveau d'eau de 373 m dans le lac 001 du côté amont, où la surface phréatique se trouve généralement au niveau ou près de la surface du sol du côté aval.

Comme prévu, la condition CCA a entraîné un FS inférieur à celui de la phase opérationnelle, en raison de la surface phréatique plus élevée pendant l'CCA (à 376,9 m) par rapport au niveau d'eau normal (NWL) à 373 m.

Le FS le plus bas se produit dans des conditions pseudo-statiques (FS = 1,67), en raison des conditions de charge dynamique.

Comme indiqué dans le **Tableau 6-4**, le barrage répond aux facteurs de sécurité requis dans toutes les conditions. Des études géotechniques supplémentaires dans le lac devraient être prévues pour la prochaine phase des travaux, et la géométrie du barrage peut être optimisée davantage.

Tableau 6-4 Résultats de l'analyse de la stabilité des pentes, barrages de dérivation

Zone	Condition de charge	FoS	Référence[2]	FoS minimum (MDDEP, 2012 MRNF, 2024)
En amont	Fin de chaque phase de construction (court terme)	2,45	Figure S1	1,3 à 1,5
En amont	En présence de l'inondation prévue par le projet (court terme)	2,31	Figure S2	1,3
En amont	Conditions stationnaires (long terme)	2,39	Figure S3	1,5
En amont	Pseudo-statique	1,67	Figure S4	1,1
En aval	Fin de chaque phase de construction (court terme)	2,43	Figure S5	1,3 à 1,5
En aval	En présence de l'inondation prévue par le projet (court terme)	2,34	Figure S6	1,3
En aval	Conditions stationnaires (long terme)	2,63	Figure S7	1,5
En aval	Pseudo-statique	1,99	Figure S8	1,1

6.4.2 Analyse des infiltrations

Des analyses d'infiltration bidimensionnelles en régime permanent ont été réalisées afin d'évaluer le débit d'infiltration. Les analyses ont été effectuées à l'aide du logiciel SEEP/W 2023, version 2023.1.2, développé par GEO-SLOPE International Ltd.

6.4.2.1 Propriétés des matériaux

Les paramètres de conductivité hydraulique des matériaux utilisés dans les analyses d'infiltration ont été déterminés à partir de l'expérience d'Atkins Realis avec des matériaux similaires. Le **Tableau 6-4** résume les paramètres adoptés pour la présente étude.

Tableau 6-5 Propriétés hydrauliques et mécaniques pour les analyses de percolation

Description du matériau	k_{sat} (m/s)	Type de modèle
Résidus (-450 mm)	5×10^{-4}	Saturé / non saturé
Pierre concassée (-75 mm)	5×10^{-5}	Saturé / non saturé
Granulaire B type II	2×10^{-5}	Saturé / non saturé
Roc	7×10^{-7}	Saturé
Gravier (GW)	5×10^{-4}	Saturé
Gravier sableux (GP-GM)	5×10^{-5}	Saturé
Sable limoneux (SM)	1×10^{-6}	Saturé
Sable limoneux (ML)	1×10^{-7}	Saturé

[2] Les résultats de l'analyse de stabilité (figures) sont présentés dans **l'Annexe D**

6.4.2.2 Conditions piézométriques et limites hydrauliques

La surface phréatique en amont et la limite hydraulique du barrage sont supposées se trouver au niveau normal des eaux (NWL) du lac 001. Le modèle s'étend jusqu'au bord de la fosse à ciel ouvert, la condition limite en aval étant définie comme la surface d'examen afin de simuler l'infiltration dans la fosse à ciel ouvert.

L'infiltration est déterminée en fonction des apports du lac 001, tandis que l'infiltration due aux précipitations n'est pas prise en compte.

6.4.2.3 Résultats de l'analyse des infiltrations

Le **Tableau 6-6** résume les résultats de l'analyse des infiltrations. Ces résultats ont été utilisés pour planifier le drainage de la fosse à ciel ouvert. L'analyse des infiltrations a estimé que le débit dans la fosse à ciel ouvert varierait de 360 m^3 /jour pour la phase I à 1 000 m^3 /jour pour la phase II.

Tableau 6-6 Résultats de l'analyse des infiltrations

Description	Débit (m^3/s/m)	Longueur du barrage (sous l'eau), m	Débit (m3/j)	Direction du débit
Infiltration à travers la phase aval du barrage (la fosse à ciel ouvert n'est pas prise en compte) - Fosse ouest	7,00E-06	90	50	Du lac 001 à l'aval du barrage
Infiltration à travers la phase aval du barrage (la fosse à ciel ouvert n'est pas prise en compte) - Fosse est	7,00E-06	3	190	Du lac 001 à l'aval du barrage
Infiltration vers la fosse à ciel ouvert (fosse ouest) (profondeur de la fosse à ciel ouvert : 225 m)	4,80E-05	90	36	Du lac 001 à la fosse à ciel ouvert
Infiltration vers la fosse à ciel ouvert (fosse Est) (profondeur de la fosse à ciel ouvert : 185 m)	3,80E-05	300	1	Du lac 001 à la mine à ciel ouvert

7. Traitement de l'eau de contact

7.1 Général

Ce projet prévoit deux qualités d'eau distinctes : l'une contaminée uniquement par des matières en suspension (MES) et l'autre contenant des métaux traces.

L'eau contaminée uniquement par des MES provient du pompage de dénoyage de la fosse et de la mine souterraine, ainsi que du ruissellement des haldes à stériles non générateurs d'acide (NGA) et de la zone industrielle. Ces flux sont traités à l'aide de bassins de sédimentation, comme décrit à la **Section 5.5**.

L'eau contenant des métaux traces provient des stériles potentiellement générateurs d'acide (PGA), des résidus et des eaux usées de l'usine de traitement. Cette eau est traitée à l'aide d'un procédé physico-chimique afin de garantir le respect des limites de rejet. Le procédé de traitement comprend l'ajustement du pH, l'utilisation d'agents chélatants, de coagulants, de floculants et de la clarification. L'effluent traité est ensuite dirigé vers un bassin de polissage. Les boues générées par le processus de traitement sont déshydratées à l'aide de sacs de filtration, et le filtrat obtenu est pompé dans le circuit de traitement pour un traitement supplémentaire.

Selon les études hydrologiques, l'usine de traitement est conçue pour une capacité initiale de 2 000 m³/h, portée à 2 800 m³/h après deux ans afin de tenir compte du développement complet du dépôt de stériles 002. Lors d'événements extrêmes, tels que définis par la Directive 019, le système de traitement fonctionne à un débit plus élevé, car les concentrations en métaux et en particules sont plus faibles en raison du volume d'eau accru,
étant donné que seuls des bassins de sédimentation sont prévus pour l'élimination des MES, un système de traitement physico-chimique d'urgence est également conçu et inclus dans les plans du projet. Ce système utilise un processus physico-chimique impliquant la coagulation, la floculation et la clarification. Les boues générées par ce processus sont gérées à l'aide de sacs de filtration.

Afin de maximiser la réutilisation de l'eau, l'eau de procédé est prélevée à partir du bassin de polissage

7.2 Conception de l'usine de traitement des eaux

7.2.1 Métaux traces

Les eaux de contact provenant des stériles, des résidus et des eaux usées de l'usine de traitement doivent être traitées afin d'éliminer les métaux traces conformément aux critères de rejet définis dans la directive 019 (D019) et le règlement sur les effluents des mines de métaux et de diamants (REMMD). La conception préliminaire de l'usine de traitement des eaux contenant des métaux traces (UTEMT) comprend les éléments suivants :

- Conteneurs préfabriqués et chauffés
  - Facilement déployables sur site pour une installation modulaire et flexible.
- Conteneur de traitement
  - Ajustement du pH à l'aide d'une solution d'hydroxyde de sodium (NaOH) ;
  - Précipitation des métaux traces sous forme d'hydroxydes et/ou de sulfures métalliques à l'aide d'un agent chélatant ;

- Coagulation pour coprécipiter les solides colloïdaux en suspension et les précipités métalliques en les liant à l'hydroxyde ferrique, et
- Floculation pour favoriser la formation de flocs plus gros et décantables.

- Clarificateur conteneurisé avec ballast à micro-sable
  - Un système conteneurisé comprend un réservoir de mélange rapide, un réservoir réacteur de floculation et un clarificateur à lamelles ;
  - Le micro-sable est utilisé pour améliorer l'efficacité de décantation des flocs, et
  - un hydrocyclone sépare le micro-sable des boues pour le réutiliser.
- Boîte de répartition
  - Permet la recirculation des boues en amont dans le processus de traitement afin d'ensemencer et d'améliorer la formation de particules.
- Sacs de filtration pour la déshydratation des boues
  - Trois baies de filtration sont prévues pour les premières étapes de l'exploitation minière ;
  - Une quatrième baie est ajoutée une fois que la mine atteint son plein développement ;
  - Lorsqu'un sac de filtration est plein, il est mis hors service pour permettre la consolidation des boues, et
  - le filtrat est collecté dans un fossé et renvoyé vers le système de traitement via une pompe de puisard.

Il est important de noter que le processus de traitement décrit ci-dessus sera affiné et optimisé au cours de la prochaine phase d'ingénierie. Des ajustements seront apportés à mesure que des données supplémentaires seront disponibles, notamment en ce qui concerne la qualité prévue de l'eau à traiter et à gérer. Cela comprend la caractérisation géochimique actualisée des stériles, des résidus et des effluents de traitement, ainsi que les conclusions de l'étude d'impact environnemental du projet.

Les dessins CASN-A-361-IN-PID-0001 à 0010 et CASN-A-362-PR-0001 et 0002 montrent le schéma P&ID et le schéma PFD du système.

7.2.2 Élimination des MES

Les eaux de contact provenant des stériles NGA (halde 001), de la zone industrielle et de dénoyage de la fosse et de la mine souterraine contiendront des MES. Un traitement par décantation naturelle dans des bassins de sédimentation est nécessaire, comme décrit à la **Section 5.5.2.1**. Cependant, certaines eaux de contact, en particulier celles provenant de l'ancien lac 001 après dénoyage, peuvent contenir des niveaux élevés de MES. Pour y remédier, un second système actif de traitement de l'eau est conçu comme mesure de contingence, et n'est déployé que si les niveaux de MES s'avèrent trop élevés pour être gérés adéquatement.
La conception préliminaire de l'unité de traitement des matières en suspension (UTMES) comprend les éléments suivants :

- Conteneurs préfabriqués et chauffés
  - Facilement déployables sur site pour une installation modulaire et flexible.
- Clarificateur conteneurisé avec ballast à micro-sable
  - Le système conteneurisé comprend un réservoir de mélange rapide, un réservoir de floculation et un clarificateur à lamelles.
  - Le microsable est utilisé pour améliorer l'efficacité de décantation des flocs.
  - Un hydrocyclone sépare le microsable des boues pour le réutiliser.

- Sacs de filtration pour la déshydratation des boues
  - Trois baies de filtration sont prévues pour les premières phases de l'exploitation minière.
  - Une quatrième baie sera ajoutée une fois que la mine aura atteint son plein développement.
  - Lorsqu'un sac de filtration est plein, il est mis hors service pour permettre la consolidation des boues.
  - Le filtrat est collecté dans un fossé et transféré vers le bassin de polissage à l'aide d'une pompe de puisard.

Les dessins CASN-A-361-IN-PID-0001 à 0006 et CASN-A-362-PR-0001 montrent le schéma P&ID et le schéma PFD du système.

7.3 Stations de pompage

Des stations de pompage sont nécessaires pour transférer l'eau de contact à travers le site et pour alimenter en eau les activités minières. Les objectifs des stations de pompage sont les suivants :

- Pomper l'eau de contact des bassins de ruissellement vers des systèmes de traitement de l'eau actifs ou passifs. Comme mentionné à la **Section 5.1**, cela comprend le pompage actif de la fonte des neiges centenaire lors d'inondations environnementales.
- Pomper l'eau traitée du bassin de polissage vers l'usine de traitement, l'usine de pâte et la mine souterraine.

En fonction de la profondeur du bassin de collecte (supérieure ou inférieure à 6 m), des pompes centrifuges ou verticales sont utilisées pour transférer l'eau de contact. Des systèmes de purge sont conçus pour chaque pipeline : soit à l'aide de casse-vide et de vannes de vidange pour les conduites transportant de l'eau sans contact, soit à l'aide de systèmes de raclage avec compresseurs pour l'eau de contact.

Chaque station de pompage comprend une pompe de secours pour assurer la redondance. Un stock suffisant de pièces de rechange est maintenu pour permettre des réparations rapides en cas de panne. Toutes les pompes sont équipées de variateurs de fréquence (VDF) pour ajuster les débits en fonction des conditions météorologiques. Les tuyaux sont dimensionnés en fonction de la hauteur manométrique totale et sont en PEHD afin de minimiser les pertes de charge. Une canalisation dédiée dessert chaque station de pompage. Toutes les canalisations sont installées au-dessus du sol sur des supports le long de la route. La canalisation transportant l'eau traitée vers les installations de traitement est entièrement isolée et chauffée afin d'éviter le gel.

La figure W13 présente la configuration type d'une station équipée de pompes à turbine verticales.

Le **Tableau 7-1** résume les spécifications des pompes utilisées pour la gestion de l'eau dans les stations de pompage sur site. Dans des conditions normales, les pompes fonctionnent à 40 % de leur capacité nominale. Les schémas P&ID et PFD des stations de pompage figurent dans les dessins CASN-A-360-IN-PID-0001 à 0002 et CASN-A-360-PR-PFD-0001 à 0008.

Tableau 7-1 Liste des stations de pompage d'eau de contact

Station de pompage	Bassin 1 vers bassin de polissage	Bassin 1a vers bassin de polissage	Bassin 2 vers traitement	Bassin 3 vers traitement	Bassin d'eau de contact n° 1 vers bassin de sédimentation	Bassin de contact n° 2 vers bassin de sédimentation	Bassin de polissage vers l'usine de traitement	Traitement vers bassin de polissage
identification d'équipement	P1-PMP-00X	P1a-PMP-00X	P2-PMP-00X	P3-PMP-00X	BC1-PMP-00X	BC2-PMP-00X	PP-PMP-00X	CWT-PMP-00X
Débit de conception(m^3/h)	592	362	706	2060	1450	750	379	2800
Conception TDH (m)	57	11	25	37	17	3,5	21	5
Type de pompe	Pompe centrifuge horizontale	Pompe centrifuge horizontale	Pompes à turbine verticales	Pompes à turbine verticales	Pompe centrifuge horizontale	Pompe centrifuge horizontale	Pompes à turbine verticales	Pompe d'aspiration
Nombre de pompes	1 + 1	1 + 1	1 + 1	2 + 1	2 + 1	1 + 1	1 + 1	3
Diamètre de la conduite(mm)	350	350	400	600	500	350	300	650
Matériau de la conduite	PEHD	PEHD	PEHD	PEHD	PEHD	PEHD	PEHD	PEHD

8. Production d'eau potable et traitement des eaux usées

8.1 Production d'eau potable

8.1.1 Pompes et conduite

Une barge flottante équipée d'une pompe est installée sur le lac 308 afin d'alimenter en eau douce la production d'eau potable. Une conduite de recirculation permet à l'eau de circuler autour de la barge afin d'éviter qu'elle ne gèle. La conduite est isolée et tracée afin d'assurer une protection contre le gel. Le **Tableau 8-1** présente les spécifications de la pompe et de la conduite.

Tableau 8-1 Spécifications de la pompe à eau potable et du système de conduite

Station de pompage	Lac 308 à l'usine de production d'eau potable
Identification d'équipement	FW-PMP-00X
Débit de conception (m^3/h)	10 + 15 (recirculation)
TDH nominal (m)	62
Type de pompe	Pompes submersibles sur barge
Nombre de pompes	1 + 1
Diamètre de la conduite (mm)	75
Matériau de la canalisation	PEHD
Protection contre le gel	Isolation 3 pouces + traçage thermique

8.1.2 Traitement

Les eaux de surface du lac 308 sont traitées toute l'année par ultrafiltration et nanofiltration afin d'éliminer les matières en suspension totales (MES) et le carbone organique total (COT). Le système de traitement est situé à côté du camp.

La conception préliminaire de l'usine de production d'eau potable comprend les éléments suivants :

- Conteneurs préfabriqués et chauffés pour un déploiement modulaire et flexible sur site ;
- Unités d'ultrafiltration;
- Unités de nanofiltration;
- Système de désinfection par UV;
- Système d'injection de chlore;
- Réservoirs de stockage d'eau potable et;
- NSP (nettoyage sur place) pour le nettoyage des membranes.

L'eau résiduelle issue du processus NSP est neutralisée avant d'être acheminée vers le système de traitement des eaux usées, afin de ne pas interférer avec les processus de traitement biologique. Les schémas détaillés du digramme de flux et les schémas de tuyauterie et d'instrumentation (P&ID) sont fournis dans les dessins CASN-A-341-IN-DWG-0001 et 0002.

8.2 Traitement des eaux usées

8.2.1 Traitement

Toutes les eaux usées domestiques provenant du camp et des installations de la zone industrielle sont collectées et acheminées vers un système central de traitement des eaux usées. Le dessin CASN-A-370-GT-DWG-0001 montre l'emplacement préliminaire du traitement.

La conception préliminaire du système de traitement des eaux usées comprend les éléments suivants :

- Conteneurs préfabriqués et chauffés
  - Facilement déployables sur site pour une installation modulaire et flexible.
    - Un bac à graisse situé sur la ligne provenant de la cuisine.
    - Un réservoir d'égalisation pour amortir les pics de débit générés lors des rotations d'équipes.
  - Un réacteur biologique – réacteur à lit biologique mobile (RLBM) pour l'élimination de la DBO et du COT.
    - Une élimination du phosphore par coagulation au sulfate ferrique
  - Une clarification par flottation à air dissous (FAD)
    - Une étape de désinfection des effluents traités à l'aide de lampes UV.
  - La gestion des boues consiste en un filtre-presse pour déshydrater les boues. Les boues sèches sont éliminées avec les autres déchets (matières non dangereuses).

De plus, un séparateur de graisses est prévu pour les effluents de la cuisine. Un réservoir d'égalisation doit être mis en place pour amortir les pics de débit générés lors des rotations d'équipes.

8.2.2 Rejet

Les eaux traitées sont accumulées dans une station de pompage pour être transférées vers le bassin de polissage. Un brise-vide est inclus au point haut de la conduite afin d'assurer le drainage par gravité de la conduite après chaque pompage. Le **Tableau 8-2** présente les caractéristiques de la station de pompage.

Tableau 8-2 Station de pompage utilisée dans le projet pour évacuer les eaux usées domestiques traitées

Identification de l'équipement	SWT-PMP-00X
Débit de conception (m3/h)	6
TDH nominal (m)	15,5
Type de pompe	Centrifuge
Nombre de pompes	1 + 1
Diamètre de la conduite (mm)	75
Matériau de la conduite	PEHD
Protection contre le gel	Disjoncteur à vide pour vidanger la conduite par gravité

9. Point de rejet final

9.1 Généralités

Il n'y aura qu'un seul point de rejet pour l'ensemble du site minier. Le bassin de polissage recueille tous les effluents traités produits par les différentes stations de traitement des eaux, afin d'assurer un traitement final ainsi qu'une homogénéisation. Compte tenu de la proximité entre le bassin de polissage et la rivière CE015, les effluents finaux traités sont rejetés par gravité .

Le système de traitement de l'eau est conçu pour répondre aux critères de rejet établis dans la Directive 019 et le REMM (MDMER) (présentés au Tableau 4-4). Cependant, puisque l'ensemble des effluents miniers est dirigé vers l'étang de polissage, une atténuation supplémentaire des concentrations de contaminants est attendue avant le rejet final.

Les concentrations finales au point de rejet ont été calculées à partir des éléments suivants :

- La qualité de l'eau à la sortie du système de traitement;
- La qualité de l'eau provenant du Stockpile 001 (Vision Geochemistry, 2025);
- La qualité de l'eau de dénoyage issue de l'étude hydrogéologique de base.

Le tableau suivant présente les concentrations maximales calculées sur une période d'un an sous des conditions normales de précipitations. Les concentrations mesurées dans les eaux de surface, provenant de la ligne de base hydrogéologique réalisée par BBA, sont également présentées.

Tableau 9-1 Concentration en contaminants dans l'effluent final ainsi que dans le milieu naturel

	Aluminium	Antimoine	Arsenic	Cadnium	Cuivre	Lithium	Nickel	Uranium
				mg/L				
Effluent final	**0,040**	**0,019**	**0,063**	**0,005**	**0,001**	**0,012**	**0,012**	**0,005**
Eau de surface	**0,139**	**0,005**	**0,001**	**31,03**	**0,001**	**Inconnu**	**0,184**	**0,001**

Une étude de modélisation de la dispersion a été réalisée afin d'évaluer la manière dont les contaminants se dispersent dans la rivière puis dans le lac. L'objectif principal était de s'assurer que les contaminants ne s'accumulent pas dans l'eau et qu'ils se dispersent uniformément dans l'environnement. Dans le **Tableau 9-1** , seul l'arsenic est réglementé par la Directive 019 (ou le REMM/MDMER) et dépasse les critères applicables. Par conséquent, l'arsenic est le seul paramètre qui sera modélisé.

9.2 Diffusion de rejet

Afin d'assurer un mélange adéquat de l'effluent final traité dans l'environnement récepteur, un système de diffuseur de rejet souterrain est nécessaire. Le rejet du bassin de polissage se compose de trois (3) tuyaux de 36 pouces de diamètre, qui se réduisent progressivement à 24 pouces, 16 pouces et 6 pouces de diamètre dans la rivière. Cette réduction du diamètre assure une vitesse adéquate dans le système de diffuseur.

Chaque tuyau immergé mesure 90 mètres de long et est équipé de 14 diffuseurs de 6 pouces de diamètre. Chaque diffuseur est équipé d'un clapet anti-retour pour empêcher le refoulement. Afin de maintenir les lignes de diffusion immergées, même lorsqu'elles sont vides, des blocs de lest en béton pesant 610 livres chacun sont utilisés.

La figure W14 illustre la configuration détaillée du système de diffusion.

9.3 Diffusion dans la rivière

9.3.1 Méthodologie

Afin d'évaluer la manière dont les contaminants à l'état de traces présents dans les effluents finaux de la mine se dispersent dans l'environnement, un modèle utilisant le logiciel HEC-RAS (v. 6.7) a été développé pour la rivière. Le modèle simule les processus d'advection-dispersion sur un tronçon de 4,3 km de la rivière (de l'entrée du canal de dérivation à l'entrée du lac 027), en intégrant les conditions d'écoulement du modèle hydraulique 1D et les caractéristiques des effluents (concentration). La simulation suit la concentration du contaminant (arsenic) le long du tronçon, identifiant le point où la concentration se stabilise et se mélange uniformément avec le débit de la rivière.

Pour les conditions aux limites, l'effluent est introduit au km 2,5, avec une concentration constante en arsenic de 0,06 mg/l, conformément aux critères de conception. D'après les mesures de la BBA (2024), les conditions initiales de l'arsenic dans la rivière (km) sont de 0,001 mg/l. Les mesures ont été effectuées au km 2,8 de la rivière, soit environ 0,3 km en aval du point de rejet des effluents. (Figure W15). Elles peuvent donc représenter l'état initial du contaminant dans la rivière.

Pour la simulation hydraulique, on suppose que la rivière se trouve dans des conditions de débit moyen avec une valeur de débit de 3,1 m^3/s à l'entrée du canal de dérivation. De plus, comme mentionné dans les sections précédentes, la base de conception pour le débit à partir du point de rejet des effluents est de 30 % du débit du canal de dérivation (au ratio maximal). Par conséquent, une valeur de débit de rejet de 0,93 m^3/s a été appliquée comme condition limite de débit. Le **Tableau 9-2** résume les conditions d'écoulement et les paramètres de qualité dans la rivière.

Tableau 9-2 Conditions limites pour le débit et la qualité de l'eau

	Débit d'écoulement - m^3 /s	Concentration de contaminants (arsenic) – mg/l
En amont (canal de dérivation)	3,1	0,001
Point de rejet des effluents	0,93	0,06

9.3.2 Résultats

Le domaine est initialisé avec C = 0,001 mg/l pour l'arsenic. Les conditions aux limites pour les valeurs de débit sélectionnées sont ensuite appliquées. Les résultats du profil longitudinal simulé de la concentration en arsenic dans la rivière sont présentés dans la figure W16. La concentration en arsenic dans la rivière après équilibre est de 0,02327 mg/l (ou 23,3 µg/l). En amont du point de rejet des effluents, la concentration reste constante à sa valeur initiale de C = 0,001 mg/l. Au niveau du point de rejet, la concentration simulée atteint une valeur maximale de C = 0,02344 mg/l, et en aval (à l'entrée du lac 027), elle est réduite à C = 0,02327 mg/l.

Selon la Directive 019 (MELCCFP, 2025), la concentration maximale en arsenic doit être de 0,1 mg/Litre. D'après les résultats, la concentration simulée est inférieure à la valeur recommandée dans la Directive 019 (2025) d'environ 0,077 mg/Litre. Ainsi, l'augmentation de la concentration d'arsenic dans la rivière attribuable au rejet d'effluent demeure conforme aux limites acceptables établies par les lignes directrices.

Selon les lignes directrices de la Directive 019 (MELCCFP, 2025), la concentration maximale d'arsenic permise est de 0,1 mg/L. D'après les résultats obtenus, la concentration simulée est d'environ 0,085 mg/L, soit sous la valeur exigée par la Directive 019 (2025). Ainsi, l'augmentation de la concentration d'arsenic dans la rivière attribuable au rejet des effluents demeure conforme aux exigences réglementaires.

La figure W16 montre également que la zone de mélange longitudinale, définie comme la région où la concentration passe de la valeur initiale de 0,001 mg/l à la valeur finale de 0,02327 mg/l, s'étend sur environ 200 mètres en aval du point de rejet des effluents. Cela indique qu'au moment où le traceur atteint 200 mètres en aval du point de rejet, la concentration en arsenic est complètement mélangée. Par conséquent, le fluide est complètement mélangé avant d'atteindre le lac 027. La figure W17 présente la variation de la concentration en arsenic en aval, à l'entrée du lac 027 (à environ 4,3 km de l'entrée du canal de dérivation). D'après cette figure, le fluide mélangé atteint le lac environ 2 heures après le début, et la concentration atteint sa valeur maximale (0,02327 mg/l) après 4 heures.

10. Évaluation hydrogéologique (Halde 002)

La halde 002 se composera à la fois des stériles PGA/LM et des résidus non PGA/LM. La disposition de ces matériaux nécessite un niveau de protection A conformément à la directive 019 (MELCCFP, 2025). Le niveau de protection A exige que les conditions hydrogéologiques en dessous et autour de l'installation de disposition, ou les mesures d'atténuation mises en place, soient suffisantes pour empêcher de manière toute dégradation significative de la qualité des eaux souterraines due à une éventuelle infiltration provenant de l'installation de stockage. La directive 019 exige qu'une étude de modélisation hydrogéologique soit réalisée afin d'estimer les taux de percolation verticale et la simulation numérique du transport des contaminants générés par les matériaux stockés dans la halde de disposition.

Un modèle numérique hydrogéologique en 3D a été développé pour évaluer l'efficacité des mesures de contrôle des infiltrations proposées, en l'occurrence une géomembrane sous la halde 002 pendant l'exploitation de la mine, suivie de l'installation d'une couverture imperméable après la fermeture de la mine, au niveau de la halde 002, afin d'empêcher le lessivage de l'arsenic et d'étayer la prise de décision pour la conception de la halde. Le développement du modèle et les résultats sont détaillés dans le rapport CASN-A-370-HY-REP-0002 d'AtkinsRéalis et un résumé est fourni ci-dessous.

10.1 Modèle numérique 3D

Le modèle a été développé en trois phases. Le modèle pré-exploitation tenait compte des conditions actuelles du site, avant le développement de la mine, et a été utilisé pour calibrer le modèle à l'aide de données de terrain. Le modèle des opérations minières supposait une halde 002 entièrement développée et une fosse minière pleine à partir de la première année jusqu'à la fin de l'exploitation, et la phase post-fermeture, à partir de la fin de l'exploitation pendant 180 ans, supposait une fosse réinondée et une halde 002 recouverte.

Les résultats du modèle d'écoulement des eaux souterraines suggèrent que l'installation de la géomembrane sous la halde 002 modifiera les directions d'écoulement des eaux souterraines vers le sud et le sud-ouest, respectivement vers le lac L01 et la fosse minière. L'écoulement modifié des eaux souterraines persiste pendant la phase de fermeture.

Le modèle de transport des solutés simule la percolation des solutés provenant de la halde 002, à travers les géomembranes (au-dessus et en dessous), dans l'environnement environnant. Les résultats du modèle de transport des solutés suggèrent que le lac L02 est le récepteur le plus exposé au risque d'infiltration provenant de la halde 002, mais que le système d'atténuation est efficace, les concentrations de solutés atteignant les récepteurs environnementaux étant inférieures aux critères applicables après 200 ans. Par conséquent, le modèle indique que les mesures proposées sont adéquates pour prévenir toute dégradation significative de la qualité des eaux souterraines due à une éventuelle infiltration provenant de l'installation de stockage.

11. Installation de disposition des résidus

Les résidus générés pendant les opérations de traitement sortiront de l'usine sous forme d'un seul flux unique. Ils seront soit disposés en surface, soit utilisés comme remblai en pâte pour la mine souterraine. Les résidus destinés à être disposés en surface seront déshydratés par séparation en milieu dense (SMD) ou à l'aide d'un filtre-presse à bandes jusqu'à atteindre une teneur en solides d'environ 88 % (Ws/Wt) à l'usine de traitement. Les résidus secs seront transportés vers la halde 002, puis déposés par l'équipement de transport, étalés à l'aide d'un bulldozer et compactés à l'aide d'un compacteur de sol vibrant. La production totale prévue de résidus pendant les 22 ans de durée de vie de la mine est estimée à 71,1 Mt, dont environ 54,0 Mt seront éliminées en surface, et les 17,1 Mt restants seront utilisées pour le remblayage en pâte.

Un processus de sélection de site a été réalisé pour l'étude d'évaluation économique préliminaire (EEP). Deux sites ont été identifiés pour la disposition des résidus et du stérile minier.
La halde 001, située au nord-ouest du site de l'usine, sera utilisée exclusivement pour la disposition des stériles en raison de sa proximité avec la mine à ciel ouvert. La halde 002 située au nord-est de l'usine, sera utilisée à la fois pour le stockage des stériles et des résidus. La conception du volet gestion des résidus comprend la zone de stockage des résidus dans la halde 002 et les infrastructures connexes de gestion de l'eau.

11.1 Considérations générales relatives à la conception

La conception de l'installation de disposition des résidus repose sur les considérations suivantes :

- La directive 19 sur l'industrie minière (MELCCFP, 2025) considère qu'un parc à résidus sec est une zone de retenue sans rétention d'eau. Cela définit les critères de conception du système de drainage et la résistance aux séismes ;
- Les résidus produits à l'usine sont conditionnés à un état suffisamment sec pour permettre leur transport, leur mise en place, leur étalement et leur compaction à l'aide d'équipements de terrassement conventionnels;
- Les résidus seront transportés de l'usine vers la halde 002 à l'aide de camions miniers. Les résidus destinés au remblayage seront pompés vers l'usine de remblayage en pâte ;
- La halde de résidus sera construite selon une méthodologie ascendante ;
- Une berme de démarrage sera prévue au pied de l'installation de stériles;
- Les résidus considérés comme non acidifiants, mais ont été pris en compte comme source de lixiviation des métaux aux fins de la présente étude ;
- La base de la portion réservée aux résidus de la halde 002 sera recouverte d'une géomembrane LLDPE double texture de 1,5 mm ;
- Les eaux de ruissellement provenant de l'empreinte de la halde de disposition sont gérées par des fossés périphériques revêtus et des bassins de collecte ;
- L'excès d'eau des bassins de collecte sera pompé vers la zone industrielle pour y être traité, tant au niveau des matières en suspension totales (MES) que des métaux traces, avant d'être rejeté dans l'environnement ou réutilisé.
- Les pentes externes de l'installation de résidus seront reprofilées en vue de la fermeture
- Dans le cadre des opérations normales. À la fermeture, les surfaces de disposition des résidus seront recouvertes d'une géomembrane, de morts-terrains et de terre végétale avant hydroensemencement.

11.2 Production et caractéristiques des résidus

La production de résidus augmente de 1,9 Mt à l'Année 1 à 5,2 Mt à l'Année 3. De l'Année 4 à l'Année 16, la production se situe entre 4,1 et 4,3 Mt par année. La production diminue à 2,9 Mt à l'Année 17, puis à 1,6 Mt à l'Année 18, et cesse à l'Année 19 avec 1,25 Mt.
. Les informations suivantes ont été utilisées pour l'analyse volumétrique de l'installation :

- La production totale de résidus pour la durée de vie de la mine est de 71,1 Mt.
  - 17,1 Mt de résidus seront utilisés comme remblai, et
  - Les 54,0 Mt restantes seront éliminées dans la halde 002.
- Les essais en laboratoire sur l'échantillon de stériles ont indiqué une densité sèche maximale standard Proctor = 1 958 kg/m3 (ASTM, D698) et une teneur en humidité optimale de 11,7 % (Ww/Ws selon la mécanique des sols) ;
- La densité sèche moyenne *in situ* des stériles SMD compactés dans l'installation pour le calcul volumétrique est supposée être de 90 % de la densité sèche Proctor standard maximale. Cette valeur est d'environ 1,7 t/m^3 et le volume de stockage requis dans la halde 002 est donc de 31,0 Mm^3, et
- les résidus destinés à la disposition en surface seront constitués d'un mélange comprenant les matériaux grossiers primaires SMD (flottés) et degrit, les matériaux grossiers secondaires SMD (degrit), les matériaux fins et ultrafins SMD (flottés et degrit), les matériaux SMD recassés-retamisés (flottés), les fractions magnétiques SMD ainsi que le gâteau de filtre-presse. La fraction dominante est représentée par les matériaux grossiers primaires SMD, qui comptent pour environ 38 % du total, tandis que le gâteau de filtre-presse représente environ 20 % du flux global.

Les informations supplémentaires fournies par les analyses des résidus sont les suivantes :

- Les résidus contiennent environ 3 % de particules fines (limon et/ou argile), environ 57 % de sable et environ 40 % de gravier. La distribution granulométrique est la suivante :
  - D_{80} = 7,68 mm, et
  - Particules fines inférieures à 75 microns = 2,9 %.
- L'échantillon de stériles présente un comportement non plastique et a une densité de 2,68 (ASTM D854), et
- La conductivité hydraulique moyenne des résidus à 1200 kPa est de 9,46E-04 cm/s, ce qui se situe dans la plage de perméabilité des matériaux sableux tels que le sable bien calibré (SW).

Les résultats des essais sont inclus dans le rapport CASN-A-370-GT-REP-0003 d'AtkinsRéalis.

Le **Tableau 11-1** présente la production annuelle prévue pour les flux de résidus, le remblayage souterrain prévu et les résidus destinés à être éliminés en surface à la halde 002.

Tableau 11-1 Production de résidus – disposés et remblayés

Période	Résidus produits	Résidus annuels destinés à l'usine de remblayage par pâte pour les travaux souterrains	Résidus annuels de la halde 002	Tonnage cumulé des résidus destinés à la halde 002
(année)	(Mt)	(Mt)	(Mt)	(Mt)
Y-1	0,28		0,28	0,28
Y1	1,86	0,03	1,83	2,11
Y2	2,32	0,38	1,94	4,05
Y3	5,20	1,12	4,08	8,13
Y4	4,30	0,97	3,33	11,46
Y5	4,30	0,98	3,32	14,78
Y6	4,30	0,93	3,37	18,15
Y7	4,30	0,97	3,33	21,48
Y8	4,30	0,98	3,32	24,8
Y9	4,30	0,99	3,31	28,11
Y10	4,31	0,99	3,32	31,43
Y11	4,28	0,99	3,29	34,72
Y12	4,31	0,99	3,32	38,04
Y13	4,29	1,00	3,29	41,33
Y14	4,30	1,01	3,29	44,62
Y15	4,30	1,01	3,29	47,91
Y16	4,10	0,99	3,11	51,02
Y17	2,85	0,98	1,87	52,89
Y18	1,64	1,02	0,62	53,51
Y19	1,25	0,77	0,48	53,99
Y20	0			
Y21	0			
Y22	0			
Y23	0			
Total	**71,10**	**17,11**	**53,99**	**53,99**

11.3 Description du site de disposition des résidus

La superficie totale du site de la halde 002 est de 218 ha. Le site de disposition a été reculé d'au moins 60 m par rapport aux cours d'eau naturels, aux lacs ou aux habitats piscicoles présumés. La topographie du site varie entre une altitude de 386 m et une altitude de 444 m. La topographie permet le drainage par gravité vers les fossés périphériques. La superficie de la halde 002 est entièrement munie d'un revêtement étanche

La halde 002 contiendra également des stériles PGA. Les résidus seront disposés séparément de la halde de stériles. La superficie de la partie réservée aux résidus de la halde 002 est d'environ 92 ha (42 %). Les forages de condamnation ont été réalisés dans la place occupée par la halde 002. Une étude géotechnique du site et un rapport factuel ont été réalisés pour la halde 002 (BBA, 2024), qui comprenait 12 forages, des échantillonnages et des essais en laboratoire. Les conditions du sol rencontrées dans la superficie de la halde 002 sont décrites dans **la Section 3.4** .

11.4 Description de la disposition des résidus et des infrastructures connexes

La superficie de la halde nécessitera l'abattage des arbres, ainsi que le retrait de la terre végétale et des matières organiques. Les matériaux décapés seront entreposés en vue de leur réutilisation lors de la fermeture. Les morts-terrains présents dans l'emprise et identifiés comme meubles ou saturés seront également excavés, suivant l'inspection d'un ingénieur géotechnicien, puis stockés dans les piles de morts-terrains 004/005. Un reprofilage minimal de l'emprise est prévu, bien que le remblayage de certaines dépressions soit nécessaire. La topographie naturelle de l'emprise permet généralement un drainage gravitaire vers le pourtour de la pile. La cuvette sera ensuite munie d'une géomembrane en LLDPE texturée double face de 1,5 mm d'épaisseur. Un géotextile de protection sera installé au-dessus de la géomembrane, et les résidus pourront être déposés directement sur le géotextile, pourvu que la circulation d'équipement sur le bassin revêtu soit évitée (voir **Figure 11-1**).

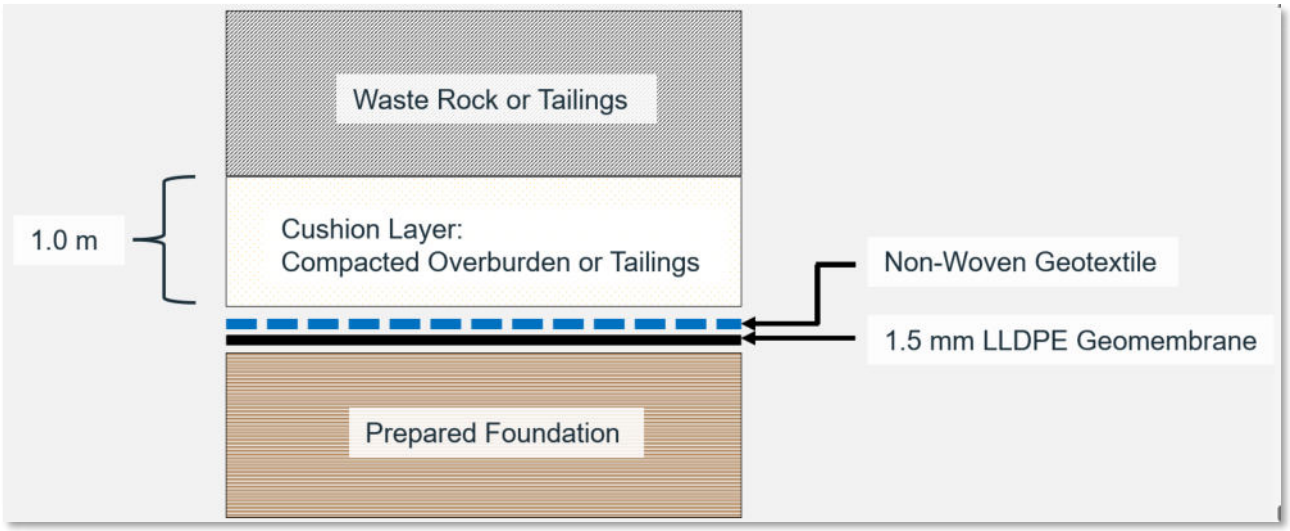


Figure 11-1 profil d'étanchéité de la halde 002

Un remblai de départ sera aménagé au pied aval de la mise en place de stériles. Ce remblai assurera la stabilité du pied de talus et permettra l'accès des véhicules pour faciliter les inspections. Il sera construit à partir de stériles classés « faible risque » et aura une hauteur de 3 m, une largeur de couronne de 5 m et des pentes latérales de 3H:1V. Une couche de sable filtrant/mise en assise de 300 mm d'épaisseur sera installée sous la digue. Sur la pente amont, une couche de transition en sable et gravier de 300 mm sera mise en place, recouverte d'une couche supplémentaire de 300 mm de sable filtrant/mise en assise, assurant une protection adéquate entre la digue en stériles et le géotextile de protection. Le parc à résidus sera construit de manière à faciliter la fermeture, avec une pente externe générale de 3,25 H:1V et des banquettes intermédiaires de 7,5 m de largeur tous les 30 m d'élévation (voir dessin CASN-A-370-GT-DWG-003).

La gestion de l'eau pour la halde 002 comprend une série de fossés périphériques qui drainent par gravité vers deux bassins de collecte. Les eaux de ruissellement provenant de la zone des résidus seront évacuées via les fossés 02-01 et 02-02 vers le bassin 02 et via les fossés 03-01 et 03-02 vers le bassin 03. Les fossés et les bassins seront recouverts d'une géomembrane en polyéthylène linéaire à basse densité (PLDD) de 1,5 mm, recouverte d'un géotextile de rembourrage et d'une couche d'enrochement. Une route d'accès est prévue parallèlement aux fossés et à l'extérieur de ceux-ci. La route d'accès facilite l'accès des véhicules pour les inspections et les réparations et détourne également les eaux de ruissellement provenant de l'extérieur de la superficie de la halde afin qu'elles ne se déversent pas dans les fossés. L'eau collectée dans le bassin 02 sera pompée vers le bassin 03 et l'eau du bassin 03 sera pompée vers l'usine de traitement des eaux pour y être traitée avant d'être rejetée dans le bassin de polissage. Une description plus détaillée de l'infrastructure de gestion de l'eau est fournie à **la Section 5.3** .

11.5 Analyse de la stabilité pour le stockage des résidus

Une analyse de stabilité a été effectuée pour la section critique (section B1) de la zone de stockage des stériles (voir les dessins CASN-A-370-GT-DWG-0002 pour la vue en plan et CASN-A-370-GT-DWG-0004 pour la vue en coupe). Les sections transversales sélectionnées pour les analyses de stabilité sont basées sur la hauteur maximale et les pentes les plus raides, comme indiqué sur les dessins.

Des analyses de stabilité des pentes ont été réalisées pour la halde de résidus (sur la zone de stockage des résidus de la halde 002) à l'aide du logiciel SLOPE/W version 2023.1.2, un programme d'équilibre limite en deux dimensions développées par Geo-Slope International Limited. La méthode Morgenstern-Price a été utilisée pour identifier les surfaces de rupture potentielles dans les pentes des haldes de disposition et leurs fondations sous-jacentes.

11.5.1 Géométrie du modèle

Sur la durée de vie de 22 années de la mine, la production prévue de stériles est estimée à 71,1 Mt. Environ 54,0 Mt de ces résidus seront déposés en surface, tandis que les 17,1 Mt restants seront utilisés pour le remblayage en pâte. Les résidus déposés dans la halde 002 sont destinés à stocker 54,0 Mt. Une description détaillée des modèles géométriques de la halde de résidus (pouvant accueillir 54 Mt de stériles) est fournie dans les sous-sections suivantes.

11.5.1.1.1 Exploitation

La géométrie de la section critique B1 pour la phase opérationnelle de la halde à stériles est illustrée dans le dessin n° CASN-A-370-GT-DWG-0004. La halde à stériles présente une pente externe globale de 3,25 horizontal sur 1 vertical (3,25H:1V) et comprend des banquettes intermédiaires de 7,5 m de largeur espacées tous les 30 m d'élévation.
Comme décrit à la **Section 11.4** , le bassin de la halde sera recouvert d'une géomembrane, sur laquelle sera placé un géotextile de rembourrage. L'interface entre le géotextile et la géomembrane est essentielle pour la stabilité de la pente. L'analyse a révélé que la combinaison d'une géomembrane PLDD double texture de 1,5 mm (60 mil) et d'un géotextile non tissé fournissait le FS requis, et cette combinaison a été sélectionnée pour la conception.

De plus, la digue de départ a été intégrée au modèle afin de permettre l'accès des véhicules au pied du parc à résidus pour fins d'inspection. Cette digue de départ, construite à partir de stériles de faible risque, aura une hauteur de 3 m et une largeur de couronne de 5 m, tel qu'illustré au dessin no CASN-A-370-GT-DWG-0004.

11.5.1.1.2 Fermeture

La géométrie de la section critique B1 pour la phase de fermeture de la halde est illustrée dans le dessin n° CASN-A-370-GT-DWG- 0004 . Contrairement au modèle de fermeture appliqué au stérile de la pile 002, celui prévu pour les résidus ne nécessite pas de couche de 30 cm de pierre concassée sur les pentes. À la place, le modèle de fermeture intègre directement une géomembrane en PEHD texturé double face de 1,5 mm, installée immédiatement au-dessus des résidus. Une géogrille est ensuite posée sur la géomembrane pour agir comme couche de drainage. De plus, une couche de 20 cm de matériaux granulaires est ajoutée au-dessus de la géogrille, puis recouverte d'une couche supplémentaire de 20 cm de terre végétale afin de permettre l'hydro-ensemencement. Cette configuration reflète fidèlement la structure de fermeture prévue dans le modèle.

11.5.1.2 Scénarios de chargement et FS minimum

Des analyses de stabilité ont été effectuées dans des conditions statiques et pseudo-statiques. Il est important de noter que le coefficient de sécurité (FS) pour les haldes de disposition classée comme non liquéfiables n'est pas abordé par l'ACB (2019). Toutefois, l'ACB (2019) indique que, si les stériles sont non liquéfiables et ne peuvent s'écouler, l'installation peut être considérée comme une zone d'élimination des déchets similaire à une zone d'élimination des morts-terrains. Il existe des directives de conception pour les décharges et les zones d'élimination des morts-terrains, qui seraient applicables dans ce cas.

Sur la base de ces directives de l'ACB (2019), les valeurs du FS ont été déterminées conformément à la réglementation du Québec (MRNF, 2024) pour les décharges et les haldes de disposition de morts-terrains. Il convient de noter que les directives du MRNF (2024) sont similaires à celles suggérées par le BCMWRPRC (1991a) et Hawley et Cunning (2017). Le FoS minimum requis pour les haldes de disposition des stériles est présenté dans le **Tableau 11-2** les raisons qui ont motivé le choix des conditions de chargement sont expliquées dans les sous-sections suivantes.

Tableau 11-2 Facteurs de sécurité minimaux pour les haldes de résidus (MRNF, 2024 ; BCMWRPRC, 1991a et Hawley et Cunning, 2017)

Condition	Facteurs de sécurité minimaux (MRNF, 2024)	
Classification des conséquences (CDA, 2019)	**Faible à importante**	**Élevé à extrême**
Stabilité locale (chaque banc)		
Statique (condition non drainée)	1,0	1,1
Statique (condition drainée)	1,2	
Stabilité globale (ensemble de la halde de disposition)		
Statique (à l'état non drainé)	1.3	1,5
Statique à long terme	1,5	
Pseudo-statique	1,1	1,3

11.5.1.2.1 Drainé

La condition de chargement drainée reflète la stabilité à long terme et utilise les résistances au cisaillement sous contrainte effective pour tous les matériaux dans le modèle de stabilité des pentes. Un FS minimal cible de 1,5 a été adopté pour les conditions statiques à long terme.

11.5.1.2.2 Non drainé

Les matériaux stériles analysés en laboratoire sont à grains grossiers (AtkinsRéalis, 2025b), ce qui signifie qu'ils peuvent être classés comme drainants. Par conséquent, les conditions de chargement non drainées n'ont pas été prises en compte pour les stériles. On suppose que tous les matériaux organiques, la terre végétale et l'argile susceptibles de générer une pression interstitielle en cas de chargement rapide seront retirés de la superficie de la halde de disposition. Par conséquent, les conditions de chargement non drainées n'ont pas non plus été prises en compte pour les fondations.

11.5.1.3 Sismicité

Cette étude n'a pas inclus d'analyses post-séisme, qui évaluent généralement les résistances résiduelles au cisaillement des matériaux de fondation susceptibles de s'être liquéfiés. Cette décision a été prise sur la base d'études de forages indiquant que les matériaux de fondation ne devraient pas subir de liquéfaction. De plus, les stériles seront compactés à 95 % de la densité sèche maximale standard Proctor, ce qui les rendra non liquéfiables. Par conséquent, la résistance résiduelle n'a pas été incluse dans cette étude. La ABC (2019) précise également qu'une installation de résidus sans eau retenue, telle qu'un empilement à sec, peut être conçue sur la base des lignes directrices relatives aux décharges et aux haldes de disposition de morts-terrains, à condition que les matériaux empilés à sec ne soient pas liquéfiables et ne puissent pas s'écouler. Par conséquent, aucune analyse post-séisme n'a été effectuée pour la halde à stériles.

Au lieu de cela, une analyse pseudo-statique a été réalisée pour évaluer la stabilité dynamique. Une analyse pseudo-statique a été réalisée pour évaluer la stabilité dynamique des haldes de disposition de résidus. Tout terril sec conçu selon la norme GISTM doit répondre aux critères de conception correspondant à la classification des conséquences extrêmes pour les conditions post-fermeture. Le site est classé dans la catégorie D, avec un coefficient d'accélération sismique horizontal (K_h) de 0,1 g (50% du PGA pour un événement survenant une fois tous les 10 000 ans (extrême), extrapolée à partir de NBCC (2020)) utilisée dans l'analyse pseudo-statique. Toutefois, une évaluation des risques sismiques spécifiques au site est recommandée dans la prochaine phase de l'étude. De plus, pendant la phase de conception détaillée, des études géotechniques supplémentaires seront nécessaires pour déterminer si des couches épaisses et faibles sous la superficie des haldes de disposition pourraient présenter un risque de liquéfaction.

11.5.1.4 Propriétés des matériaux

Le **Tableau 11-3** fournit un résumé des paramètres des matériaux et du modèle de matériaux utilisés pour cette étude. Les résidus destinés à être disposés en surface sont constitués d'un mélange comprenant les matériaux grossiers primaires SMD (flottés) et degrit, les matériaux grossiers secondaires SMD (degrit), les matériaux fins et ultrafins SMD (flottés et degrit), les matériaux SMD recassés-retamisés (flottés), les fractions magnétiques SMD ainsi que le gâteau de filtre-presse.

.

Les essais en laboratoire ont permis de déterminer une densité sèche maximale Proctor standard de 1 958 kg/m³ et une teneur en eau optimale de 11,7 % (Ww/Ws). Par conséquent, une masse volumique correspondant à 95 % de la densité Proctor standard, soit 1 860 kg/m³ (18,2 kN/m³), a été retenue dans le modèle. Un angle de frottement effectif de 42° a été estimé à partir des essais triaxiaux CIU (ASTM D4767) en conditions drainées ; toutefois, considérant que ces essais ont été réalisés en laboratoire dans des conditions contrôlées difficilement reproductibles sur le terrain, une valeur conservatrice de **37°** a été adoptée pour l'analyse de stabilité.

La géomembrane PLDD à double texture a été modélisée comme en conditions drainées, avec un angle de frottement effectif de 30,1 degrés et une masse volumique de 9 kN/m³. Parallèlement, le géotextile non tissé a également été modélisé, avec une masse volumique de 1 kN/m³ pour chaque condition de chargement. Ces paramètres de modélisation ont été repris de la base de données AtkinsRéalis et sont basés sur les spécifications de différents fournisseurs.

Les paramètres de densité et de résistance des matériaux de fondation proviennent de l'étude réalisée par BBA (2024). Selon l'interprétation d'AtkinsRéalis, la fondation sous les emprises des haldes 001 et 002 est composée d'une couche d'organique surmontant une unité de sols classés limon/limon sableux/limon avec gravier (ML), elle-même reposant sur une unité de sable limoneux/sable limoneux avec gravier (SM). Sous cette couche se trouve une unité de gravier limoneux avec sable/gravier avec limon et sable (GM), suivie d'une unité de gravier (incluant des cailloux) (GW) située au-dessus du roc. Les valeurs de résistance des matériaux ont été dérivées de l'analyse des valeurs SPT « N » réalisées par BBA, menant aux angles de frottement estimés à 31°, 34°, 38° et 39° et aux masses volumiques de 18,5, 19,0, 20,0 et 20,5 kN/m³, pour les unités ML, SM, GM et GW respectivement, et intégrées dans le modèle.

Tableau 11-3 Paramètres géotechniques des matériaux des haldes à stériles

Description	γ (kN/m³)	C' (kPa)	Φ' (˚)	Modèle de stabilité des pentes
Matières organiques	14	0	18	Mohr-Coulomb
ML - Limon/Limon sableux/Limon avec gravier	18,5	0	31	Mohr-Coulomb
SM - Sable limoneux/Sable limoneux avec gravier	19,0	0	34	Mohr-Coulomb
GM - Gravier limoneux avec sable/gravier avec limon et sable	20,0	0	38	Mohr-Coulomb
GW - Gravier	20,5	0	39	Mohr-Coulomb
Résidus	18	0	37	Mohr-Coulomb
Stériles	20	0	38	Mohr-Coulomb
Géomembrane PLDD double texture de 1,5 mm (couche de base)	9	3,15	30,1	Mohr-Coulomb
Géotextile non tissé (couche de base)	1	3,15	30,1	Mohr-Coulomb
Géomembrane PEHD de 1,5 mm (couverture)	9	0,65	17,8	Mohr-Coulomb

Description	γ (kN/m^3)	C' (kPa)	Φ' (˚)	Modèle de stabilité des pentes
Géogrille (couverture)	9	0,65	17,8	Mohr-Coulomb
Couche protectrice en géomembrane/géotextile	19	0	34	Mohr-Coulomb
Roc	Impenétrable			

11.5.1.5 Hypothèse relative à la surface phréatique

Le modèle a adopté une surface phréatique conservatrice basée sur un modèle en régime permanent, dans lequel la nappe phréatique s'abaisse jusqu'au niveau des drains périphériques situés sous le terrain naturel.

11.5.1.6 Résultats de l'analyse de stabilité

Les résultats sommaires de l'analyse de stabilité des pentes sont présentés dans **Tableau 11-4**. Les résultats détaillés sont présentés dans l'**Annexe D**, rapport AtkinsRéalis CASN-A-370-GT-REP-0002, , figures S9 à S20. L'évaluation s'est concentrée sur les conditions de chargement drainées et pseudo-statiques pour la section critique (section B1 dans le dessin n° CASN-A-370-GT-DWG-0002) de la halde à stériles. Les conditions de chargement non drainées n'ont pas été analysées, car on a supposé que l'eau pouvait s'écouler rapidement du sol. L'étude a pris en compte les défaillances globales et locales, en mettant particulièrement l'accent sur la surface de rupture critique aux interfaces entre la géomembrane et les matériaux géotextiles. Il a été constaté que l'interface entre la géomembrane PLDD à double texture et le géotextile non tissé n'était pas une surface de rupture critique. L'analyse a évalué les mécanismes de rupture circulaires et non circulaires, le mécanisme de rupture non circulaire étant identifié comme le mécanisme prédominant, entraînant le coefficient de sécurité (FS) le plus faible. Par conséquent, les conclusions présentées dans cette note sont basées sur une rupture non circulaire. La phase opérationnelle et la phase de fermeture ont toutes deux été évaluées, mais les résultats n'ont pas différé entre les deux phases.

Le FS le plus bas se produit dans des conditions pseudo-statiques (FS = 1,60), en raison des conditions de chargement dynamique. Comme le **Tableau 11-3**, les configurations et optimisations proposées démontrent que le FS pour les haldes répond aux exigences minimales établies par le Règlement du Québec (MRNF, 2024) dans tous les scénarios de chargement, y compris les défaillances globales et locales.

Tableau 11-4 Coefficients de sécurité pour la stabilité des pentes des haldes

Phase	Section	Conditions de chargement	Exigence minimale de FoS[1]	FoS	Références[3]	Type de défaillance[2]
Opérationnel	B1-B1	Statique (drainé)	1,5	2,13	Figure S9	Global
Opérationnel	B1-B1	Pseudo-statique	1,3	1,60	Figure S10	Global
Fermeture	B1-B1	Statique (drainé)	1,5	2,13	Figure S11	Global
Fermeture	B1-B1	Pseudo-statique	1,3	1,60	Figure S12	Global
Opérationnel	B1-B1	Statique (drainé)	1,2	2,36	Figure S13	Local (banc 1)
Opérationnel	B1-B1	Statique (drainé)	1,2	2,28	Figure S14	Local (banc 2)
Opérationnel	B1-B1	Statique (drainé)	1,2	2,28	Figure S15	Local (banc 3)
Opérationnel	B1-B1	Statique (drainé)	1,2	1,84	Figure S16	Local (banc 4)
Fermeture	B1-B1	Statique (drainé)	1,2	2,3	Figure S17	Local (banc 1)
Fermeture	B1-B1	Statique (drainé)	1,2	2,36	Figure S18	Local (banc 2)
Fermeture	B1-B1	Statique (drainé)	1,2	2,29	Figure S19	Local (banc 3)
Fermeture	B1-B1	Statique (drainé)	1,2	1,90	Figure S20	Local (banc 4)

[1] *MRNF, 2024 ; BCMWRPRC, 1991a et Hawley et Cunning, 2017*

[2] *Le premier banc est celui du haut, les bancs suivants étant disposés chronologiquement vers le bas, en direction de la surface du sol.*

[3] Les résultats de l'analyse de stabilité (figures) sont présentés à **l'Annexe D**

12. Stockage des stériles et des morts-terrains

Parmi l'ensemble des sous-produits générés par les opérations minières, les stériles et les morts-terrains seront produits tout au long de la durée de vie de la mine. Deux piles de stériles, deux piles de morts-terrains et deux piles de matières organiques ont été définies conceptuellement. La construction de ces piles se poursuivra de manière continue durant toute la vie de la mine. Les matériaux entreposés dans les piles de morts-terrains et de matières organiques seront réutilisés lors de la phase de fermeture.

La production prévue de matériaux sur les 22 ans de la durée de vie de la mine est évaluée comme suit :

- Stériles: 155,2 Mt.;
  - Stériles non lixiviables (à faible risque) : 74,2 Mt ;
  - Stériles PAG/ML: 81,0 Mt;
- Morts-terrains: 14,0 Mt.
- Matières organiques: 3,2 Mt.

Une partie des stériles non lixiviables sera stockée et disposée dans la halde 001 (45,2 Mt), le reste sera déversé dans la fosse à ciel ouvert (29,0 Mt). Tous les stériles PGA/LM produits seront disposés à la halde 002 et tous les morts-terrains et matières organiques seront stockés dans leurs haldes respectifs.

12.1 Considérations générales relatives à la conception

Les principales références pour la conception des installations de gestion des stériles et des morts-terrains sont les suivantes :

- Technical note – Environmental, social, and hydrological surveys (NIIGAAN, 2022);
- Geochemical characterization of tailings and waste rock (Vision, 2025).
- *GMining Mine Plan*, "CASN-Final_Mining_Mass_Balance".
- Données de référence disponibles telles que les contraintes environnementales, les écosystèmes sensibles et uniques, les plans d'eau de surface, les limites de propriété, les ressources minérales et les concessions minières. Ces informations ont été intégrées dans un système d'information géographique ;
- Données LiDAR fournies par Patriot et extraites des sites web gouvernementaux.

12.2 Production et caractéristiques des stériles et des morts-terrains

La conception des stériles et des morts-terrains repose sur les éléments suivants :

- Les morts-terrains et les stériles extraits lors des différentes phases d'exploitation sont considérés comme des matériaux secs ; par conséquent, les matériaux auront le temps de s'égoutter entre l'excavation et le placement dans la halde de disposition. L'équipement minier transportera le matériau de la fosse vers la zone d'élimination finale ;
- Les haldes de disposition seront constituées par levées successives en élévation, et des hauteurs et largeurs de banquettes adéquates seront maintenues afin d'atteindre l'inclinaison globale de conception ;
- Les eaux de ruissellement provenant des stériles à faible risque de la halde de disposition 001 seront gérées à l'aide de fossés périphériques (fossé 01-01, fossé 01-02, fossé 01A-01 et fossé 01A-2) et de bassins de collecte 01 et 01A. L'eau collectée dans les bassins 01 et 01A sera pompée vers les bassins de sédimentation de la zone industrielle pour la gestion des MES avant d'être rejetée dans l'environnement ou réutilisée dans l'usine de traitement ;
- Les eaux de ruissellement provenant des stériles PGA dans la halde de disposition 002 seront gérées à l'aide de fossés revêtus (fossé 02-02 et fossé 03-01) et de bassins de collecte 02 et 03, tous deux munis de revêtement. Cette eau sera pompée vers la zone industrielle pour y être traitée avant d'être rejetée dans l'environnement ou réutilisée dans l'usine de traitement ;
- Les eaux de ruissellement provenant de la halde de disposition de morts-terrains seront gérées à l'aide d'une série de bassins de rétention situés au pied de la halde ;
- La fermeture des surfaces de stériles à faible risque dans la halde de disposition 001 nécessitera le nivellement des pentes externes à une inclinaison de 3H:1V, la mise en place d'une couche de morts-terrains et de terre végétale et de l'ensemencement hydraulique ;
- La fermeture des surfaces de stériles PGA dans la halde de disposition 002 nécessitera le nivellement des pentes externes à une inclinaison de 3H:1V, la mise en place d'une couche de rembourrage, l'installation d'une membrane géomembrane, le recouvrement de la géomembrane d'une couche de morts-terrains et de terre végétale et de l'ensemencement hydraulique ;
- Les matériaux stockés dans les haldes de disposition de morts-terrains 004 et 005 et les tas de matières organiques seront utilisés pendant la phase de fermeture comme matériaux de remblayage/recouvrement propres ;
- Les matériaux stockés dans les tas de matières organiques seront utilisés pendant la phase de fermeture.
- Production et caractéristiques des matériaux : Le plan d'exploitation minière prévoit une période de montée en puissance de la première à la deuxième année, une baisse au cours des troisième et quatrième année, puis une nouvelle période de montée en puissance au cours de la cinquième année, après quoi la production restera relativement stable jusqu'à la dixième année, où elle commencera à diminuer jusqu'à la dix-neuvième année. Les morts-terrains ne sont attendus qu'aux premières étapes du projet, avec un pic de 3,9 Mt en année -1 et année 1 ; le tonnage total prévu est d'environ 14,0 Mt ;

L'analyse volumétrique des installations de stockage des stériles et des morts-terrains est basée sur les éléments suivants :

- Les haldes de disposition de stériles auront une pente extérieure globale de 3,25H:1V ;
- La granulométrie des stériles devrait être comprise entre 0 et 1 000 mm. Le matériau est considéré comme autodrainant et ne présente pas de teneur en humidité importante ;
- La densité sèche estimée sur place est de 2,0 t/m³. La capacité de stockage requise qui en résulte est donc de 77,2 Mm³ ;
- Les stériles seront stockés dans les haldes de disposition 001 et 002, les stériles à faible risque étant stockés dans la halde de disposition 001 et les stériles PGA dans la halde de disposition 002 ;
- Les stériles à faible risque seront stockés dans la mine à ciel ouvert une fois que la capacité de la halde de disposition 001 aura été atteinte au cours de l'année 9 ;
- Pour les tas de morts-terrains, la densité sèche *in situ* estimée est de 1,75 t/m³. La capacité requise qui en résulte est de 8,01 Mm³, et
- Pour le tas de matières organiques, la densité sèche in situ estimée est de 1,43 t/m³. La capacité requise qui en résulte est de 2,2 Mm³.

Le **Tableau 12-1** présente la production annuelle à stocker dans les haldes de disposition et les tas de morts-terrains, ainsi que le nombre cumulé de tonnes produites et le lieu de dépôt des stériles et des morts-terrains.

Tableau 12-1 Zones de production et de stockage des stériles et des morts-terrains

Année	Production annuelle de stériles à faible risque (Mt)	Cumul des stériles à faible risque dans la halde de disposition 001 (Mt)	Cumul des stériles à faible risque dans la mine à ciel ouvert (Mt)	Production annuelle de stériles PAG (Mt)	Roches stériles PAG cumulées dans la halde de disposition 002 (Mt)	Production annuelle de morts-terrains (Mt)	Matières en excédent cumulées vers le dépôt 004 (Mt)	Stériles cumulés vers le dépôt 005 (Mt)	Production annuelle de matières organiques (Mt)	Matières organiques cumulées dans le dépôt (Mt)
Y-2				0,10	0,10	0,89	0,89			
Y-1	0,77	0,77		1,59	1,69	3,92	4,81			
Y1	1,76	2,53	-	3,83	5,52	3,91	7,00	1,72	0,89	0,89
Y2	6,27	8,79	-	7,08	12,60	0,89		2,61	0,89	1,77
Y3	4,63	13,42	-	5,00	17,60	1,04		3,65	1,39	3,16
Y4	4,37	17,80	-	3,83	21,43	1,07		4,72	-	-
Y5	9,03	26,82	-	7,15	28,60	2,08	-	6,80	-	-
Y6	10,88	37,71	-	8,33	36,91	0,23	-	7,03	-	-
Y7	7,48	45,18	-	6,37	43,27		-		-	-
Y8	8,21		8,21	7,24	50,52		-		-	-
Y9	5,76		13,97	9,59	60,11		-		-	-
Y10	4,35		18,32	8,20	68,32	-	-	-	-	-
Y11	2,40	-	20,72	4,08	72,40	-	-	-	-	-
Y12	3,42	-	24,14	4,66	77,06	-	-	-	-	-
Y13	1,83	-	25,97	1,37	78,43	-	-	-	-	-
Y14	1,65	-	27,62	1,21	79,65	-	-	-	-	-
Y15	1,03	-	28,65	0,55	80,20	-	-	-	-	-
Y16	0,3	-	28,95	0,49	80,69	-	-	-	-	-
Y17	0,03	-	28,98	0,23	80,92	-	-	-	-	-
Y18		-		0,06	80,98	-	-	-	-	-
Y19		-		0,03	81,01	-	-	-	-	-
Y20		-				-	-	-	-	-
Y21		-	-			-	-	-	-	-
Y22	-	-	-			-	-	-	-	-
Y23	-	-	-			-	-	-	-	-
Total	**74,17**	**45,18**	**28,98**	**81,01**	**81,01**	**14,03**	**7,00**	**7,03**	**3,16**	**3,16**

12.3 Description du site de stockage des stériles et des morts-terrains

La halde de disposition 001 est située au nord-ouest du site de l'usine et sera utilisée exclusivement pour l'élimination des stériles à faible risque. La halde de disposition 002 est située au nord-est de l'usine et sera utilisée pour le stockage des stériles et des résidus PGA. La superficie totale de la halde 001 est de 80 ha. La superficie totale de la halde 002 est de 218 ha. La partie de la halde 002 destinée au stockage des stériles PGA est de 126 ha (58 %). Les superficies des haldes ont été décalées d'au moins 60 m par rapport aux cours d'eau naturels, aux lacs ou aux habitats piscicoles présumés. La topographie du site de la halde 001 varie entre 374 m et 400 m d'altitude. La topographie du site de la halde 002 varie entre 386 m et 444 m d'altitude. La topographie des deux haldes permet le drainage des eaux de ruissellement par gravité vers les fossés périphériques.

Les forages de condamnation ont été réalisés dans les superficies des haldes 001 et 002. Une étude géotechnique du site et un rapport factuel ont été réalisés pour les deux haldes (BBA 2024), comprenant 19 forages, des prélèvements d'échantillons et des essais en laboratoire. Les conditions du sol rencontrées dans les superficies des haldes 001 et 002 sont variables et sont résumées dans Les conditions du sol rencontrées dans la superficie de la halde 002 sont décrites dans la **Section** « **11.3** » ci-dessus.

Les haldes de disposition de morts-terrains identifiées dans le plan général sont les suivantes :

- Tas de déblais 004 : zone située au sud-ouest de la limite de la fosse – années -1 à 4 ;
- Tas de morts-terrains 005 : zone située au sud-est de la limite de la phase 2 de la fosse – années 5 à 8 ; et
- Tas de matières organiques : zone située au sud de la halde 001 et au nord de la zone industrielle – années 1 à 3.

12.4 Halde de stériles, piles de morts-terrains et infrastructures connexes

La superficie de la halde 001 couvre 80 ha et sa hauteur maximale est d'environ 95 m. La partie rocheuse PGA de la halde 002 est d'environ 126 ha (58 %) avec une hauteur maximale d'environ 120 m. Les superficies des deux haldes nécessiteront le déboisement et le retrait de la couche arable/des matières organiques. La couche arable et les matières organiques retirées seront stockées dans le tas de matières organiques pour être utilisées lors de la fermeture. Les morts-terrains jugés meubles/saturés dans la superficie seront également retirés, après inspection par un ingénieur géotechnique, et stockés dans les haldes de morts-terrains 004/005. Le bassin de la partie rocheuse PGA/LM de la halde 002 sera recouvert d'une géomembrane LPDD double texture de 1,5 mm. La préparation pour l'installation de la géomembrane comprendra le remblayage des points bas, le compactage de la surface et la mise en place d'une couche de sable servant de coussin aux endroits où la géomembrane pourrait être endommagée par les fondations, par exemple les affleurements de stériles. Un géotextile servant de coussin sera posé sur la géomembrane et une couche de coussin de 1 m d'épaisseur sera posée sur le géotextile avant la mise en place des stériles. La couche de rembourrage pour le développement initial de la superficie sera constituée de morts-terrains extraits de l'exploitation de la fosse ou provenant de carrières locales. Une fois que l'usine de traitement sera opérationnelle et que les résidus seront produits, ceux-ci pourront être utilisés comme couche de rembourrage pour le reste de la superficie (voir le détail 1 sur le dessin CASN-A-370-GT-DWG-004).

Les stériles seront placés en couches de 10 m de hauteur avec des pentes locales d'environ 1,5H:1V. Une marche de 15 m de large est prévue pour chaque banc. Un banc sur trois aura une marche de 22,5 m. Les bancs seront nivelés au bulldozer afin d'obtenir une pente locale de 3H:1V à la fermeture. Le banc le plus large sera en partie conservé lorsque les bancs intermédiaires seront aplatis. Cela facilitera la gestion de l'eau à la fermeture. Cette géométrie offre une pente externe globale de 3,25H:1V (voir les dessins CASN-A-370-GT-DWG-003 et CASN-A-370-GT-DWG-004).

La gestion de l'eau pour les deux haldes de disposition consiste à entourer les superficies des haldes de fossés périphériques et à acheminer l'eau vers des bassins de rétention. L'excès d'eau est pompé des bassins de rétention vers les bassins de sédimentation ou vers l'usine de traitement de la zone industrielle pour y être traité avant d'être rejeté dans l'environnement ou réutilisé dans l'usine. Des routes d'accès sont prévues à côté et parallèlement aux fossés de drainage. Les conduites de pompage de l'eau sont indiquées dans le dessin 001-GE-DWG-0001-C de la CASN-A-001-GE-DWG-0001-C. Le traitement de l'eau est décrit à la **Section 18.3**. Le dessin 001-GE-DWG-001 présente la disposition des infrastructures de gestion de l'eau pour la halde 001 et la halde 002. Une description plus détaillée des infrastructures de gestion de l'eau est fournie à la **Section 5.3**.

Les morts-terrains seront stockés dans quatre zones distinctes (voir les dessins CASN-A-370-GT-DWG-001 et CASN-A-370-GT-DWG-005) :

- La pile de morts-terrains 004, située au sud de la fosse, a une superficie de 23 ha. La préparation de cette zone devrait commencer dès le début des travaux. La gestion de l'eau correspondante consiste en une série de bassins de rétention situés autour du périmètre de la halde. Les bassins de rétention seront construits avec un remblai rocheux à faible risque. Ils stockeront temporairement les eaux de ruissellement, permettront aux sédiments de se déposer, puis s'infiltreront dans l'environnement ou s'évaporeront.
- La pile de morts-terrains 005 est située au sud-est de la fosse ouest et occupe une superficie de 27 hectares. La préparation de cette zone doit être effectuée avant l'aménagement de la fosse est. Quant à la pile 004, la gestion de l'eau consiste en une série de bassins de rétention situés autour du périmètre du tas. Ces bassins stockeront temporairement les eaux de ruissellement, permettront aux sédiments de se déposer, puis s'infiltreront dans l'environnement ou s'évaporeront.
- Deux piles de matières organiques sont situées au sud de la halde 001 et au nord de la zone industrielle. Ils couvrent une superficie d'environ 11 hectares. La préparation de cette zone devrait commencer dès le début des travaux. La gestion de l'eau correspondante consiste en une série de bassins de rétention situés autour du périmètre de la halde de disposition. Ces bassins stockeront temporairement les eaux de ruissellement, permettront aux sédiments de se déposer, puis s'infiltreront dans l'environnement ou s'évaporeront.

12.5 Analyses de stabilité des haldes de stériles

Comme indiqué sur le plan n° CASN-A-001-GO-DWG-0001, la halde 001, située au nord-ouest du site de l'usine, sera exclusivement dédiée au stockage des stériles NGA en raison de sa proximité avec la mine à ciel ouvert. En revanche, la halde 002, située au nord-est de l'usine, est destinée au stockage des stériles PGA et des résidus. Des analyses de stabilité ont été réalisées pour les deux haldes proposées, 001 et 002.

Les analyses de stabilité des pentes ont été réalisées à l'aide du logiciel SLOPE/W version 2023.1.2, un logiciel d'équilibre limite bidimensionnel développé par Geo-Slope International Limited. La méthode Morgenstern-Price a été utilisée pour identifier les surfaces de rupture potentielles dans les pentes des haldes et leurs fondations sous-jacentes. L'objectif principal de ces analyses était de déterminer les surfaces de rupture les plus critiques qui produiraient le facteur de sécurité (FS) le plus conservateur. Le FS est le rapport entre la résistance moyenne

au cisaillement disponible (force de résistance) et la contrainte de cisaillement moyenne mobilisée (force motrice) le long d'une surface de rupture spécifique.

Les sous-sections suivantes résument les détails de ces analyses de stabilité, y compris leurs résultats.

12.5.1 Évaluation de la stabilité de la halde 001

Des analyses de stabilité des pentes ont été effectuées sur une (1) section critique de la halde non génératrice d'acide (NAG) (section A1 pour la halde 001), comme indiqué sur les dessins CASN-A-370-GT-DWG-0001 (plan) et CASN-A-370-GT-DWG-0003 (vue en coupe), où la pile atteint sa hauteur maximale et présente la pente la plus raide.

Les sous-sections suivantes fournissent des détails sur la géométrie de la halde, les propriétés des matériaux, les scénarios de chargement et la surface phréatique utilisés dans le modèle, ainsi qu'une discussion des résultats de l'analyse de stabilité.

12.5.1.1 Géométrie du modèle de la halde 001

La halde 001 a une superficie de 80 hectares (ha) et une hauteur maximale d'environ 90 m. Deux configurations ont été conçues pour la halde 001, tant pour la phase d'exploitation que pour la phase de fermeture. Le profil des fondations a été intégré dans la géométrie du modèle sur la base des informations disponibles sur les forages.

Une description détaillée des modèles géométriques de la halde 001 est fournie dans les sous-sections suivantes.

12.5.1.1.1 Phase opérationnelle

La section critique (section A1) de la géométrie pour les phases opérationnelles de la halde 001 est illustrée dans le plan numéro CASN-A-370-GT-DWG-0003. Pendant la phase opérationnelle, les haldes de stériles sont conçues en couches de 10 mètres de haut, avec des pentes locales d'environ 1,5 horizontal (H) pour 1 vertical (V). Chaque banc a une largeur de 15 mètres, et un banc sur trois à une largeur de 22,5 mètres. Cette conception permet d'obtenir une pente extérieure globale de 3,25 H :1V.

12.5.1.1.2 Fermeture

La section critique (section A1) de la géométrie pour les phases de fermeture de la halde 001 est illustrée dans le plan numéro CASN-A-370-GT-DWG-0003. Pendant la phase de fermeture, les bancs sont conçus avec une pente locale de 3:1 (horizontale à verticale) afin de favoriser une gestion efficace de l'eau. Chaque banc mesure 7,5 mètres de large.

Pour la halde 001, la conception de la fermeture consiste en une couche de 30 cm d'épaisseur de pierre concassée, recouverte d'une couche de 20 cm de terre végétale pour permettre l'ensemencement hydraulique.

12.5.1.2 Scénarios de chargement et valeurs minimales de FS

Les valeurs de FS ont été déterminées conformément à la réglementation québécoise (MRNF, 2024) pour les terrils et les haldes de morts-terrains. Il convient de noter que les directives du MRNF (2024) sont similaires à celles suggérées par le BCMWRPRC (1991a) et Hawley et Cunning (2017). Le FoS minimum requis pour les haldes de stériles est présenté dans le **Tableau 12-2**. Les raisons qui ont motivé le choix des conditions de chargement sont expliquées dans les sous-sections suivantes.

Tableau 12-2 Facteurs de sécurité minimaux pour la halde 001 et la halde 002 (MRNF, 2024 ; BCMWRPRC, 1991a et Hawley et Cunning, 2017)

Condition	Facteurs de sécurité minimaux (MRNF, 2024)	
Classification des conséquences (CDA, 2019)	**Faible à importante**	**Élevé à extrême**
Stabilité locale (chaque banc)		
Statique (condition non drainée)	1,0	1,1
Statique (condition drainée)	1,2	
Stabilité globale (ensemble de la halde)		
Statique (à l'état non drainé)	1.3	1,5
Statique à long terme	1,5	
Pseudo-statique	1,1	1,3

12.5.1.2.1 Drainé

La condition de chargement drainée reflète la stabilité à long terme et utilise les résistances au cisaillement sous contrainte effective pour tous les matériaux dans le modèle de stabilité des pentes. Un FS minimal cible de 1,5 a été adopté pour les conditions statiques à long terme.

12.5.1.2.2 Non drainé

Le chargement non drainé se caractérise généralement par un chargement rapide et à court terme. Contrairement aux conditions de chargement drainé, le chargement non drainé peut entraîner des pressions interstitielles positives, en particulier dans les sols contractifs. Le FS minimal visé pour les analyses de stabilité à l'équilibre limite non drainé est de 1,3 pour les risques faibles à importants et de 1,5 pour les risques élevés à extrêmes. Toutefois, les haldes de stériles sont drainantes. On suppose que toutes les matières organiques, la couche arable et l'argile susceptibles de générer une pression interstitielle due à un chargement rapide seront retirées de la superficie de la halde. Par conséquent, les conditions de chargement non drainé n'ont pas été prises en compte dans cette étude.

12.5.1.3 Sismicité

Cette étude n'a pas inclus d'analyses post-séisme, qui évaluent généralement les résistances au cisaillement résiduel des matériaux de fondation susceptibles de s'être liquéfiés. Cette décision a été prise sur la base d'études de forages indiquant que les matériaux de fondation ne devraient pas subir de liquéfaction. Cependant, pendant la phase de conception détaillée, des études géotechniques supplémentaires seront nécessaires pour déterminer si des couches épaisses et faibles sous la superficie des haldes de disposition pourraient présenter un risque de liquéfaction.

Une analyse pseudo-statique a été réalisée pour évaluer la stabilité dynamique de la halde 001. Le site est classé dans la catégorie D, avec un coefficient d'accélération sismique horizontal (K_h) de 0,1 g (50% du PGA pour un événement survenant une fois tous les 10 000 ans (extrême), extrapolée à partir de NBCC (2020)) utilisée dans l'analyse pseudo-statique. Cette valeur est supérieure aux exigences applicables aux installations de stockage des stériles, mais elle a été choisie par mesure de prudence et pour assurer la cohérence avec la halde 002. Toutefois, une évaluation des risques sismiques spécifiques au site est recommandée dans la prochaine phase de l'étude.

12.5.1.4 Propriétés des matériaux

Les paramètres de densité et de résistance des matériaux utilisés dans les analyses de stabilité ont été déterminés par AtkinsRéalis, sur la base des études géotechniques menées par BBA (BBA, 2024). Lorsque les données issues des essais sur le terrain ou en laboratoire n'étaient pas disponibles, des hypothèses ont été formulées sur la base de l'expérience d'AtkinsRéalis avec des matériaux similaires. Le **Tableau 12-3** résume les paramètres et les modèles des matériaux utilisés dans cette étude. Une description détaillée des propriétés de ces matériaux est fournie dans les sous-sections suivantes.

Tableau 12-3 Paramètres géotechniques des matériaux – Haldes 001 et 002

Description	γ (kN/m^3)	C' (kPa)	Φ' (˚)	Modèle de stabilité des pentes
Matières organiques/couche arables	14	0	18	Mohr-Coulomb
ML - Limon/limon sableux/limon avec gravier	18,5	0	31	Mohr-Coulomb
SM - Sable limoneux/Sable limoneux avec gravier	19,0	0	34	Mohr-Coulomb
GM - Gravier limoneux avec sable/gravier avec limon et sable	20,0	0	38	Mohr-Coulomb
GW - Gravier	20,5	0	39	Mohr-Coulomb
Stériles	18	0	37	Mohr-Coulomb
Roche stérile	20	0	38	Mohr-Coulomb
Géomembrane LPDD double texture de 1,5 mm (couche de base)	9	3,15	30,1	Mohr-Coulomb
Géotextile non tissé (couche de base)	1	3,15	30,1	Mohr-Coulomb
Géomembrane PEHD de 1,5 mm (couverture)	9	0,65	17,8	Mohr-Coulomb
Géogrille (couverture)	9	0,65	17,8	Mohr-Coulomb
Couche protectrice en géomembrane/géotextile	19	0	34	Mohr-Coulomb
Pierre concassée (à la fermeture)	19	0	38	Mohr-Coulomb
Roc	Impenetrable			

12.5.1.4.1 Fondation

BBA Engineering Ltd. (BBA) a mené une étude géotechnique afin d'évaluer les conditions du sous-sol aux emplacements proposés pour les haldes (BBA, 2024). BBA (2024) a réalisé au total soixante et un (61) forages pour des essais sur le terrain (essais SPT) et des analyses en laboratoire sur l'ensemble du site. Parmi ces forages, onze (11) sont situés dans la halde 001 et huit (8) dans la halde 002. Ces forages ont pour but de déterminer la stratigraphie et d'évaluer les propriétés du sol de fondation. Les échantillons de sol sélectionnés ont été analysés au laboratoire Englobe à Montréal, où des essais ont été effectués pour évaluer la distribution granulométrique, la teneur en eau, la densité et la résistance à la compression uniaxiale (UCS). De plus, des évaluations du module d'élasticité et du coefficient de Poisson ont été réalisées. AtkinsRéalis a analysé les journaux de forage réalisés par BBA, ainsi que les données des essais en laboratoire issus de cette étude, afin d'élaborer des profils de sol pour le site conformément aux normes USCS (Unified Soil Classification System) et ASTM D2487-17 (AtkinsRéalis, 2025a). AtkinsRéalis a interprété les « valeurs N » obtenues à partir du test de pénétration standard (SPT) de BBA afin de formuler des recommandations sur les propriétés matérielles des unités de sol classées.

Sur la base des interprétations d'AtkinsRéalis, les fondations sous la superficie des haldes 001 et 002 sont constituées de matériaux organiques, suivis d'une unité de sol classée SILT/Sandy SILT/SILT avec Gravier (ML). Sous la couche ML, une unité de SABLE limoneux/SABLE limoneux avec gravier (SM) a été identifiée. Sous cette couche SM se trouve une unité de GRAVIER limoneux avec sable/GRAVIER avec limon et sable (GM), suivie d'une unité de gravier (y compris des galets) (GW), qui est située au-dessus de la roc. Les angles de frottement estimés à 31º, 34º, 38º et 39º, ainsi que les poids unitaires de 18,5, 19,0, 20,0 et 20,5 kN/m³, ont été dérivés de l'analyse des « valeurs N » SPT pour ML, SM, GM et GW, respectivement, et ont été utilisés dans le modèle.

12.5.1.4.2 Stérile

Il n'existe aucune donnée de laboratoire disponible pour les stériles. Un angle de frottement effectif de 38° et un poids unitaire de 20 kN/m³ ont été attribués au modèle sur la base de l'expérience antérieure d'AtkinsRéalis avec des matériaux similaires, en adoptant une approche prudente.

12.5.1.4.3 Roc

On suppose que les surfaces de rupture de pente ne traversent pas le roc. Par conséquent, le roc est modélisé comme impénétrable et aucun paramètre de modèle n'a été attribué.

12.5.1.5 Hypothèse relative à la surface phréatique

Le modèle a attribué une surface phréatique prudente sur la base d'un modèle en régime permanent où la nappe phréatique s'abaisse jusqu'au niveau des drains périphériques situés sous le terrain naturel.

12.5.1.6 s des résultats de l'analyse de stabilité pour le stock 001

Les résultats sommaires de l'analyse de stabilité des pentes pour la halde 001 sont présentés dans le **Tableau 12-4**.Les résultats détaillés sont présentés dans l'**Annexe D**, AtkinsRéalis rapport CASN-A-370-GT-REP-0002 figures S21 à S36. Les conditions de chargement drainées et pseudo-statiques ont été évaluées pour la halde 001. Les conditions de chargement non drainées n'ont pas été évaluées, car on a supposé que l'eau pouvait s'écouler rapidement du sol. Les défaillances globales et locales ont été étudiées. Les mécanismes de défaillance circulaires et non circulaires ont été évalués. Le mécanisme de défaillance prédominant, qui a donné lieu au FS le plus faible, a été identifié comme non circulaire. Par conséquent, les résultats présentés dans cette note sont basés sur une défaillance non circulaire.

Il existe une légère différence géométrique entre les phases d'exploitation et de fermeture du projet. Par exemple, le nombre de bancs dans la halde de stériles 001 est plus élevé pendant la phase d'exploitation que pendant la phase de fermeture. Bien que cette différence puisse avoir un impact mineur sur le facteur de sécurité (FS), celui-ci demeure non significatif. Dans l'ensemble, le FS pendant la phase d'exploitation est légèrement supérieur à celui observé en phase de fermeture.

Des variations mineures du FS sont observées entre les défaillances locales sur les différents bancs, attribuées à l'orientation variable des lignes d'entrée-sortie et au positionnement de ces derniers. En général, les bancs situés à des altitudes plus élevées présentent un FS plus élevé que ceux situés à des altitudes plus basses.

Comme le montre le **Tableau 12-4**, les configurations et optimisations proposées démontrent que le FS de la halde 001 répond aux exigences minimales établies par la réglementation québécoise (MRNF, 2024) dans tous les scénarios de chargement, y compris les défaillances globales et locales.

Tableau 12-4 Coefficient de sécurité de l'analyse de la stabilité des pentes de la halde 001

Halde de disposition	Phase	Section	Conditions de chargement	Exigence minimale de FoS	FoS[1]	Référence[4]	Type de défaillance
001	Opérationnel	A1-A1	Statique (drainé)	1,5	2,53	Figure S21	Global
001	Opérationnel	A1-A1	Pseudo-statique	1,3	1,91	Figure S22	Global
001	Fermeture	A1-A1	Statique (drainé)	1,5	2,41	Figure S23	Global
001	Fermeture	A1-A1	Pseudo-statique	1,3	1,84	Figure S24	Global
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,80	Figure S25	Local (banc 1)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,30	Figure S26	Local (banc 2)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,22	Figure S27	Local (banc 3)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,27	Figure S28	Local (banc 4)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,26	Figure S29	Local (banc 5)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,2	Figure S30	Local (banc 6)
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,2	Figure S31	Local (banc 7)
001	*Opérationnel*	*A1-A1*	*Statique (drainé)*	*1,2*	*1,38*	*Figure S32*	*Local (banc 8)*
001	Opérationnel	A1-A1	Statique (drainé)	1,2	1,24	Figure S33	Local (banc 9)
001	Fermeture	A1-A1	Statique (drainé)	1,2	2,41	Figure S34	Local (banc 1)
001	Fermeture	A1-A1	Statique (drainé)	1,2	2,33	Figure S35	Local (banc 2)
001	Fermeture	A1-A1	Statique (drainé)	1,2	2,21	Figure S36	Local (banc 3)

[4] Les résultats de l'analyse de stabilité (figures) sont présentés à **l'annexe D**

12.5.2 Halde 002 de stériles Stabilité des pentes

Une analyse de stabilité a été effectuée pour les stériles PAG/ML dans la halde 002 pour la section critique (section H1) (voir les dessins CASN-A-370-GT-DWG-0002 pour la vue en plan et CASN-A-370-GT-DWG-0004 pour la vue en coupe). Dans la section H1, le tas atteint sa hauteur maximale et présente la pente la plus raide.

Les scénarios de chargement, le facteur de sécurité minimal (FoS), les propriétés des matériaux (géotechniques) et les hypothèses relatives à la surface phréatique pour la halde 002 sont identiques à ceux de la halde 001, comme décrit dans Géométrie modèle des stériles dans la halde 002.

La halde 002, qui contient des roches PGA/LM, couvre environ 126 ha (58 % de la superficie totale de la halde 002), avec une hauteur maximale d'environ 120 m. Deux configurations ont été conçues pour la halde 002, couvrant à la fois les phases d'exploitation et de fermeture. Le profil des fondations a été intégré dans la géométrie du modèle sur la base des informations disponibles sur les forages.

Une description détaillée des modèles géométriques de la halde 002 est fournie dans les sous-sections suivantes.

12.5.2.1.1 Phase opérationnelle

La géométrie de la section critique H1 pour la phase opérationnelle de la halde 002 est illustrée dans le dessin n° CASN-A-370-GT-DWG-0004. Pendant la phase opérationnelle, les haldes de stériles sont conçues en couches de 10 mètres de haut, avec des pentes locales d'environ 1,5 horizontal (H) pour 1 vertical (V). Chaque banc a une largeur de 15 mètres, et un banc sur trois à une largeur de 22,5 mètres. Cette conception permet d'obtenir une pente externe globale de 3,25 horizontale (H) pour 1 vertical (V).

Le bassin de la halde 002 est recouvert d'une géomembrane LPDD double texture de 1,5 mm. Un géotextile de rembourrage est placé sur cette géomembrane, suivi d'une couche de rembourrage protectrice d'une épaisseur de 1 mètre.

12.5.2.1.2 Fermeture

La géométrie de la section critique H1 pour la phase de fermeture de la halde 002 est illustrée dans le dessin n° CASN-A-370-GT-DWG-0004. Pendant la phase de fermeture, les bancs sont conçus avec une pente locale de 3:1 (horizontale/verticale) afin de favoriser une gestion efficace de l'eau. Chaque banc mesure 7,5 mètres de large.

Le modèle de fermeture de la halde 002 (PGA/LM) consiste en une couche de 30 cm d'épaisseur de pierre concassée sur la pente, suivie d'une couche de sable de 15 cm d'épaisseur (empruntée à la couverture) pour soutenir la géomembrane. Au-dessus de cette couche, une géomembrane en PEHD double texture de 1,5 mm est incorporée. Une géogrille est ensuite placée au-dessus de la géomembrane, servant de couche de drainage. De plus, une couche de sable de 20 cm d'épaisseur, empruntée à la couverture, est appliquée sur la géogrille, qui est recouverte d'une couche de 20 cm de terre végétale pour faciliter l'ensemencement hydraulique (voir le dessin n° CASN-A-370-GT-DWG-0004). Cette conception garantit une reproduction fidèle de la structure de fermeture prévue.

12.5.2.2 Résultats de l'analyse de stabilité des stériles dans la halde 002 (

Les résultats sommaires de l'analyse de la stabilité des pentes pour les stériles de la halde 002 à la section H1 sont présentés dans le **Tableau 12-5**. Pour les résultats détaillés, se reporter à l'**Annexe D** et plus précisément aux figures S37 à S55. Les conditions de chargement drainé et celles pseudo-statiques ont été évaluées pour la halde 002 ; cependant, les conditions de chargement non drainé n'ont pas été évaluées, car on a supposé que

l'eau pouvait s'écouler rapidement du sol. L'analyse a pris en compte la surface de rupture critique aux interfaces entre la géomembrane et les matériaux géotextiles. Il a été déterminé que l'interface entre la géomembrane LPDD à double texture et le géotextile non tissé n'était pas une surface de rupture critique.

L'analyse a porté à la fois sur les ruptures globales et locales, en tenant compte des mécanismes de rupture circulaire et non circulaire. Le mécanisme de rupture prédominant, qui a donné le FS le plus faible, a été identifié comme non circulaire. Par conséquent, les résultats présentés dans ce rapport sont basés sur une rupture non circulaire.

Dans l'ensemble, le FS pour la halde 002 est inférieur à celui de la halde 001. Cette différence s'explique principalement par la hauteur plus importante de la halde 002 (120 m) par rapport à la halde 001 (90 m).

Il existe des différences géométriques mineures entre les phases d'exploitation et de fermeture. Par exemple, le nombre de bancs dans la halde de stériles 001 est plus élevé pendant la phase d'exploitation que pendant la phase de fermeture. Néanmoins, le FS global pour ces deux phases est assez similaire, malgré les légers changements géométriques.

Les légères variations du FS entre les défaillances locales sur les différents bancs peuvent être attribuées à l'orientation variable des lignes d'entrée-sortie. Cependant, aucune tendance spécifique n'est observée dans le FS en fonction de l'emplacement des bancs.

Comme le montre le tableau 12-5, les configurations et optimisations proposées indiquent que le FS pour la halde 002 répond aux exigences minimales établies par la réglementation québécoise (MRNF, 2024) dans tous les scénarios de chargement, y compris les défaillances globales et locales.

- Il existe certaines incertitudes concernant la résistance des fondations sous la superficie des haldes 001 et 002. Au cours de la phase de conception détaillée, des études géotechniques supplémentaires seront nécessaires pour déterminer si des couches épaisses et faibles sous la superficie des haldes pourraient présenter un risque de liquéfaction. La conception devra être ajustée en conséquence en fonction de ces résultats.

Tableau 12-5 Facteur de sécurité de l'analyse de la stabilité des pentes du PGA dans la halde 002

Halde de disposition	Phase	Section	Conditions de chargement	Exigence minimale de FS	FS	Référence[5]	Type de défaillance
002	Opérationnel	H-H	Statique (drainé)	1,5	2,31	Figure S37	Global
002	Opérationnel	H-H	Pseudo-statique	1,3	1,76	Figure S38	Global
002	Fermeture	H-H	Statique (drainé)	1,5	2,32	Figure S39	Global
002	Fermeture	H-H	Pseudo-statique	1,3	1,75	Figure S40	Global
002	Opérationnel	H-H	Statique (drainé)	1,2	1,63	Figure S41	Local (banc 1)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,49	Figure S42	Local (banc 2)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,31	Figure S43	Local (banc 3)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,37	Figure S44	Local (banc 4)

[5] Les résultats de l'analyse de stabilité (figures) sont présentés à **l'annexe D.**

Halde de disposition	Phase	Section	Conditions de chargement	Exigence minimale de FS	FS	Référence[5]	Type de défaillance
002	Opérationnel	H-H	Statique (drainé)	1,2	1,36	Figure S45	Local (banc 5)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,42	Figure S46	Local (banc 6)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,37	Figure S47	Local (banc 7)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,42	Figure S48	Local (banc 8)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,46	Figure S49	Local (banc 9)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,37	Figure S50	Local (banc 10)
002	Opérationnel	H-H	Statique (drainé)	1,2	1,35	Figure S51	Local (banc 11)
002	Fermeture	H-H	Statique (drainé)	1,2	2,43	Figure S52	Local (banc 1)
002	Fermeture	H-H	Statique (drainé)	1,2	2,37	Figure S53	Local (banc 2)
002	Fermeture	H-H	Statique (drainé)	1,2	2,44	Figure S54	Local (banc 3)
002	Fermeture	H-H	Statique (drainé)	1.2	2,21	Figure S55	Local (banc 4)

13. Fermeture

La phase de fermeture du projet est conçue pour assurer une transition responsable entre l'exploitation active et l'utilisation post-minière des terres, en collaboration avec les communautés des Premières Nations et en conformité avec les réglementations du ministère des Ressources naturelles et des Forêts (MRNF) et du ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs (MELCCFP) du Québec. Les principaux objectifs des activités de fermeture et de réhabilitation seront les suivants :

- Éliminer les risques inacceptables pour la santé et assurer la sécurité publique.
- Limiter la production et la propagation de contaminants susceptibles d'affecter l'environnement récepteur et, à long terme, viser à éliminer toute forme d'entretien et de surveillance.
- Assurer la stabilité géotechnique et géochimique à long terme.
- Permettre une restauration progressive.
- Assurer l'acceptabilité sociale.
- Ramener le site à un état qui soit, dans la mesure du possible, conforme à l'écosystème initial ou environnant et visuellement acceptable.
- Rétablir les zones d'infrastructure dans un état compatible avec leur utilisation future.

Le plan de fermeture du site est élaboré conformément au guide provincial (guide de préparation du plan de réaménagement et de restauration des sites miniers au Québec [MRNF, 2024]).
À des fins de planification, des stratégies de fermeture et de remise en état ont été élaborées pour chaque composante de la mine. Une fois l'exploitation minière terminée, la mine sera fermée, remise en état et surveillée conformément à ses autorisations, réglementations et plans.

13.1 Séquence de fermeture

La séquence de fermeture sera planifiée en trois (3) étapes, à commencer par :

- Des travaux de restauration progressifs seront effectués pendant les opérations minières dans les zones devenues actives afin de vérifier le succès des mesures à grande échelle qui seront mises en œuvre pendant la phase de fermeture de la mine.
- Une fois les opérations terminées, la phase post-exploitation débutera, elle comprend le démantèlement des installations industrielles et l'exécution des travaux de fermeture.
- Après le démantèlement des infrastructures de fermeture et des installations de traitement des eaux, la phase de post-fermeture sera amorcée, comprenant l'entretien et la surveillance du site.

Les infrastructures à restaurer sont présentées dans les sections suivantes.

13.2 Fermeture de la zone industrielle et des infrastructures linéaires

Toutes les usines de traitement, les installations électriques, tous les bâtiments administratifs ainsi que les autres structures, infrastructures et équipements industriels seront démantelés et retirés du site pour être éliminés dans un lieu d'enfouissement autorisé. Les matériaux générés pendant le processus de démantèlement seront gérés selon les principes de réduction, de réutilisation, de recyclage et de remise en état. Les dalles et fondations en béton seront brisées ou fissurées pour faciliter le drainage, puis recouvertes de 15 cm de matériau semblable à de la terre végétale avant d'être revégétalisées par ensemencement hydraulique. Les routes d'accès et les anciennes zones de stockage ou de dépôt sur le site minier seront scarifiées afin de rétablir le drainage et de favoriser la revégétalisation.

Il est à noter que la route d'accès toutes saisons de 20 km à partir de la route Trans-Taiga est considérée comme une route multi-usage et restera ouverte au public et aux membres de la communauté crie pendant toute la durée de l'exploitation et après la fermeture de la mine.

Le site de transbordement de Matagami sera détenu et exploité par la ville de Matagami. Par conséquent, la fermeture de ces installations relèvera de leur compétence et celles-ci pourront être maintenues en place pour d'autres utilisateurs à l'avenir. Aucun coût n'a été inclus pour la fermeture.

Des discussions sont en cours avec les actionnaires et les communautés locales afin de déterminer l'avenir du centre culturel des Premières Nations prévu sur le site, ainsi que celui de la ligne électrique. Le client prévoit transférer la propriété à la communauté ; par conséquent, les coûts liés au démantèlement de la ligne électrique et au centre culturel ne sont pas inclus.

13.3 Infrastructure minière : fosse, stériles, résidus et installations de stockage des morts-terrains

Les stratégies de fermeture et de réhabilitation élaborées à ce jour sont les suivantes : des séances d'analyse comparative des scénarios de fermeture des infrastructures (pour la fosse, les haldes 001 et 002) ont été menées dans le cadre de la préparation du plan de fermeture du site afin de déterminer les meilleurs concepts pour chacune de ces infrastructures. Divers concepts de fermeture ont été retenus. Les activités de fermeture pour chacune de ces infrastructures sont présentées ci-dessous :

13.3.1 Halde 001

La halde 001 sera constituée d'une portion de stériles « à faible risque » (Vision géochimie, 2025), tandis que le reste de ces stériles sera disposées dans la fosse à ciel ouvert. Les activités de fermeture prévues pour la halde 001 comprennent les éléments suivants :

- L'emprise de la halde 001 sera reprofilée afin de permettre un drainage efficace vers les fossés de collecte des eaux.
- Une couche de 30 cm de morts-terrains sera placée sur les stériles après le reprofilage afin d'empêcher que la terre végétale ne s'infiltre à travers les vides des stériles.
- Une couche de 20 cm de terre végétale sera ajoutée sur les matériaux granulaires. Ensuite, la surface de la halde 001 sera végétalisée afin de créer un paysage fermé et d'atténuer l'érosion.

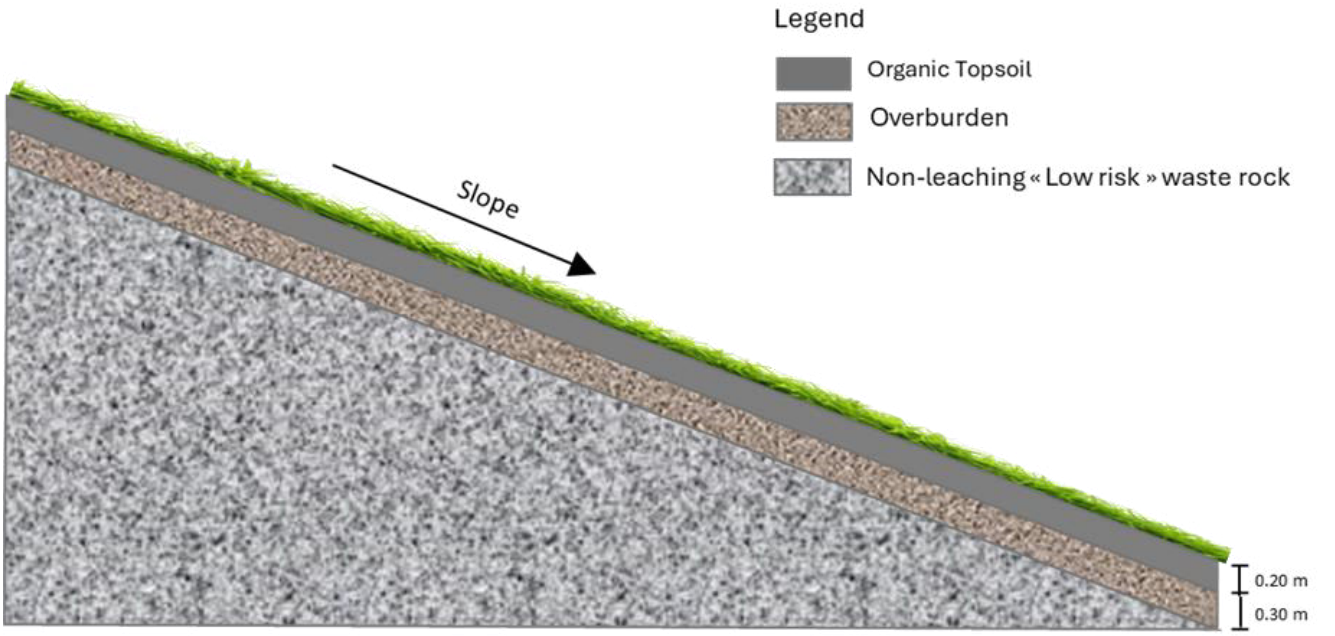


Figure 13-1 Configuration de fermeture de la halde 001

13.3.2 Halde 002

La halde 002 recevra tous les stériles et résidus potentiellement lixiviables (LM), à haut risque ou PGA. En raison de la nature des roches qui seront stockées dans la halde 002, le concept de fermeture retenu pour celle-ci est une couverture d'argile. Ce concept consiste à installer une barrière contre l'infiltration d'eau sur les stériles et résidus à l'aide de matériaux naturels. Le rôle de cette couche imperméable, composée d'argile d'une épaisseur de 1,5 m, est de limiter l'infiltration d'eau et la diffusion d'oxygène vers les matériaux sous-jacents (stériles PGA ou PLM) afin d'éviter la génération de contaminants. En effet, cette couche, qui offre une faible conductivité hydraulique, agit comme une couche de rétention d'eau et limite la diffusion d'oxygène vers les matériaux sous-jacents. Aucune étude n'a été réalisée pour identifier les sources potentielles d'argile. Toutefois, on suppose donc qu'une étude de site d'emprunt sera menée lors des prochaines phases du projet. Dans le cas contraire, un autre concept devra être élaboré.

La surface de la halde 002 sera reprofilée afin de permettre la mise en place du système de couverture et un drainage efficace vers les fossés de collecte d'eau. La configuration générale de ce concept comprend, de bas en haut :

- Une couche de 30 cm de matériau granulaire (mort-terrain) sera placée sur les stériles après le reprofilage.
- Une couverture en argile (1,5 m d'épaisseur) sera ensuite mise en place.
- Une couche de 20 cm de terre végétale servant de support à la végétation sera placée sur la couverture d'argile. Ensuite, la surface de la halde 002 sera végétalisée afin de créer un paysage fermé et d'atténuer l'érosion.
- Un système de drainage permettra d'évacuer les eaux d'infiltration à travers les couches de matériaux de couverture naturels vers des réseaux de fossés périphériques.

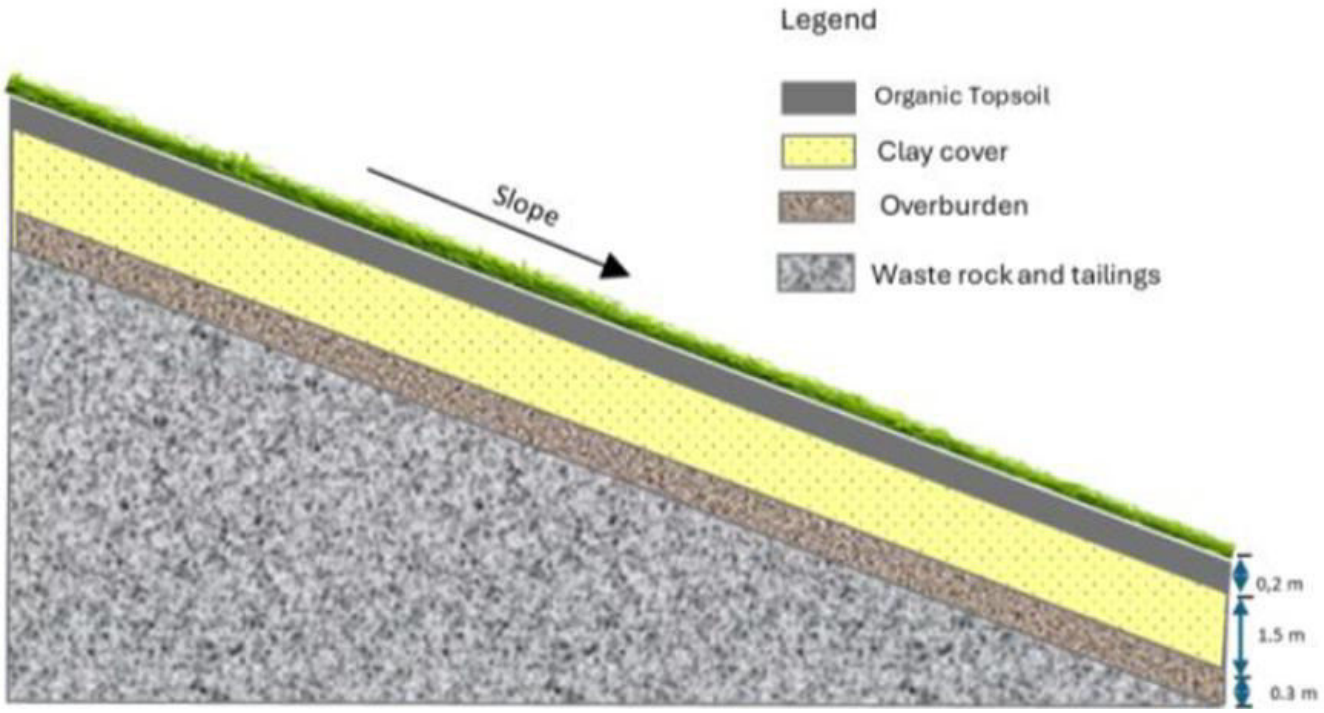


Figure 13-2 Configuration de fermeture de la halde 002

13.3.3 Dépôt de matières organiques et de morts-terrains

Les empilements de terre végétale et de morts-terrains (001, 002, 004 et 005, respectivement) seront utilisés pour les activités de fermeture. Une fois les matériaux utilisés, la superficie restante de ces haldes sera scarifiée afin de briser les surfaces compactées et de favoriser le drainage naturel. Ces zones seront ensuite revégétalisées à l'aide d'un ensemencement hydraulique, qui facilite l'établissement rapide de la végétation et le contrôle de l'érosion.

13.3.4 Mine à ciel ouvert

13.3.4.1 Inondation et sécurisation du site :

Dans le cadre de cette stratégie de fermeture, la mine à ciel ouvert sera laissée à l'inondation naturelle, ce qui entraînera la formation d'un lac de fosse stable qui s'intégrera au système hydrogéologique local. Les activités de fermeture de la mine sont les suivantes :

- Inondation passive de la fosse : laisser le ruissellement naturel et les apports d'eau souterraine inonder la fosse jusqu'au niveau actuel du lac 01 (élévation de 373 m).
- Sécurisation de la fosse par la construction d'une berme de sécurité autour de celle-ci afin d'empêcher les animaux et les personnes non autorisées d'accéder à la fosse inondée.
- Démanteler la petite berme de rétention d'eau.
- Le lac de mine sera relié au canal naturel existant qui se déverse vers le nord.
- Promouvoir la création d'un habitat aquatique grâce à des éléments tels que les chenaux à faible débit.

13.3.5 Voies d'accès

Les stratégies de fermeture et de réhabilitation élaborées sont les suivantes :

- Mise hors service et enlèvement : Toutes les routes d'accès seront entièrement mises hors service, y compris :
  - Retrait des ponceaux et des structures de drainage.
  - Restauration du débit hydrologique naturel.
- Mesures de réhabilitation :
  - Rétablissement de la chaussée pour l'adapter à la topographie environnante.
  - Revégétalisation avec des espèces végétales indigènes afin de prévenir l'érosion.

13.3.6 Restauration du système de gestion de l'eau

Une fois le site restauré et la qualité de l'eau confirmée, les quatre (4) bassins situés dans la zone de traitement des eaux, ainsi que les deux (2) bassins de la zone industrielle, seront remblayés. Les zones seront reprofilées et revégétalisées à l'aide d'ensemencement hydraulique. Avant le début des travaux de terrassement, les sédiments accumulés au fond des bassins seront caractérisés, excavés et soit stockés dans la halde 002, soit transportés vers un site d'élimination autorisé. La géomembrane sera retirée pour permettre le drainage.

Quant aux quatre (4) bassins collectant l'eau des haldes 001 et 002, une brèche sera creusée dans chacune des digues afin d'éviter toute accumulation d'eau au pied des haldes. Les sédiments accumulés au fond de ces bassins seront également retirés et gérés de manière appropriée.

13.4 Programmes de surveillance et d'entretien

Les considérations à long terme comprennent des programmes de surveillance visant à évaluer la stabilité géochimique et les risques de tassement, afin de s'assurer que les zones restaurées ne posent pas de problèmes de contamination ou d'affaissement à long terme. La mise en œuvre d'un programme de surveillance environnementale permettra de démontrer que les travaux de restauration ont atteint leurs objectifs. Sur la base de l'édition 2025 de la directive 019 du MELCCFP, voici un résumé des exigences en matière de surveillance environnementale après l'exploitation et après la fermeture :

13.4.1 Après l'exploitation

13.4.1.1 Exigences en matière de surveillance des effluents :

- Les effluents finaux doivent être surveillés chaque semaine pendant la phase de restauration.
- La surveillance comprend:
  - L'échantillonnage de la qualité de l'eau au point de rejet.
  - Mesures du débit et du pH, de préférence à l'aide d'un équipement de surveillance continue.
  - La transmission des données au MELCCFP selon les formats et la fréquence prescrits.

13.4.1.2 Gestion des eaux souterraines et des eaux de ruissellement

- Les eaux souterraines doivent être échantillonnées deux fois par an pendant les phases de restauration et de post-restauration.
- Les eaux de ruissellement provenant des haldes de disposition doivent être collectées et traitées dans l'installation de traitement des eaux jusqu'à ce que les objectifs de qualité de l'eau soient atteints.
-

13.4.2 Surveillance après la restauration

- Une fois le site restauré et la qualité de l'eau confirmée :
  - Des brèches seront créées dans les bassins de collecte des haldes à stériles.
  - Il en résultera quatre (4) effluents à surveiller.
- Une surveillance mensuelle (pendant la saison des eaux libres) de ces effluents est requise pendant 20 ans après la restauration.
- La surveillance des eaux souterraines se poursuivra deux fois par an pendant cette période.
- La surveillance des eaux minières et des effluents finaux se poursuivra huit (8) fois par an pendant cette période.
- L'efficacité de la revégétalisation sera surveillée.

13.4.3 Suivi agronomique

La mise en place de la végétation sur les haldes de stériles commencera dès le démantèlement des installations et la restauration des haldes. Le suivi du succès de la revégétalisation dans les zones restaurées et végétalisées du site et l'entretien des plantes seront effectués sur une période de cinq (5) ans au moyen d'inspections annuelles.

L'objectif général du suivi de la végétation est de suivre l'évolution des zones restaurées et végétalisées, notamment la croissance des plantes, le taux de couverture et la diversification des espèces, ainsi que les performances et l'autosuffisance des espèces végétales qui ont colonisé les zones restaurées. Il vise également à s'assurer qu'aucune espèce exotique envahissante (EEE) n'est présente sur le site. En outre, il consiste à évaluer les besoins d'entretien et de correction si nécessaire (par exemple, application d'engrais). Des activités de revégétalisation seront menées dans les zones où le succès est jugé insatisfaisant.

Un programme de suivi agronomique plus détaillé sera présenté dans le plan de végétalisation et se poursuivra tout au long de la phase post-restauration. Le suivi sera effectué sur une période de cinq (5) ans selon le calendrier suivant :

- Année 1 : Suivi de la croissance des espèces végétales (juin et août) dans les zones nouvellement restaurées et végétalisées.
- Années 2 à 5 : surveillance annuelle pendant le pic de la saison de croissance des plantes, entre la mi-juillet et la mi-août.

Les zones végétalisées soumises au suivi agronomique seront délimitées à l'aide de placettes d'échantillonnage permanentes. Les placettes d'échantillonnage (PE) couvriront une superficie de 1 m² (1 m x 1 m) et seront réparties sur toutes les zones végétalisées. Le nombre de PE à inventorier variera en fonction de la taille des zones végétalisées (**Tableau 13-1**). Le type d'inspection et les indicateurs mesurés lors de la surveillance agronomique sont présentés ci-dessous :

- Croissance : inspection visuelle ;
- Taux de couverture : inspection visuelle et méthode d'interception ponctuelle à l'aide d'une grille de 1 m² ;
- Indice de surface foliaire : mesure ;
- Pourcentage de plantes vivantes et mortes et répartition spatiale : inspection visuelle ;
- Profondeur des racines : mesure ;
- Paramètres racinaires (RLD, RVD, etc.) : mesure.

Un rapport de suivi annuel sera soumis au MRNF et au MELCCFP.

Tableau 13-1 Nombre minimum de parcelles d'échantillonnage (PE) à inventorier en fonction de la superficie considérée pour le suivi agronomique

Superficie végétalisée (ha)	Nombre minimal de parcelles de surveillance
1 ha ou moins	4
2 à 4	6
4 à 6	8
6 à 10	10
10 ou plus	10 + 1 par tranche supplémentaire de 5 ha

13.5 Planification de la réhabilitation et de la fermeture

Un plan de fermeture, conforme au Guide de préparation des plans de réhabilitation et de restauration des sites miniers au Québec (MRNF, 2024), est en cours d'élaboration par GCM Consulting et comprendra un calendrier détaillé des travaux de fermeture. Le plan de fermeture de la mine décrit les mesures que PMET prendra pour mettre hors service la mine en toute sécurité une fois les opérations terminées, en veillant à ce que tous les impacts environnementaux soient atténués et que le site soit remis dans un état sûr et stable.

13.6 Station de transbordement

Sur le site de transbordement de Matagami, les installations (rails, gares de triage et bâtiments de stockage) dédiées au projet seront détenues et exploitées par la ville de Matagami. La fermeture de ces installations relèvera donc de leur compétence et elles pourront rester en place pour d'autres utilisateurs à l'avenir. Aucun coût n'a été inclus pour la fermeture.

14. Surveillance du rendement

Pendant l'exploitation, la mise en œuvre d'un programme systématique de surveillance du rendement est essentielle pour maintenir l'intégrité physique des haldes à stériles, des tas de résidus et des structures auxiliaires. Un tel programme devrait inclure une surveillance environnementale ainsi que des inspections visuelles régulières de l'ensemble de l'installation, la surveillance des niveaux piézométriques dans le tas de résidus filtrés et des digues du bassin de confinement, et des repères de tassement dans les haldes à stériles et les tas de résidus filtrés. Le programme sera documenté dans un manuel d'exploitation, d'entretien et de surveillance qui sera élaboré pendant la phase de conception détaillée et de construction du projet et il sera révisé régulièrement afin de tenir compte de tout changement dans le rendement ou le fonctionnement des haldes de stériles et du tas de résidus filtrés.

14.1 Programmes d'inspection

Les différents composants des tas de résidus filtrés et des haldes à stériles doivent être inspectés régulièrement par un personnel compétent connaissant bien leur conception et leurs exigences opérationnelles. Les résultats du programme de surveillance doivent servir de base pour déterminer les mesures d'entretien et d'assainissement qui peuvent être nécessaires de temps à autre. Les documents de conception et de construction des différents composants des tas de résidus filtrés et des haldes à stériles sont essentiels pour évaluer le rendement de l'installation et doivent être correctement archivés sur le site et accessibles pour examen au besoin.

Il est courant de mettre en œuvre de tels programmes à trois niveaux : observations de routine (quotidiennes), inspections détaillées (trimestrielles et annuelles) et examens formels de la sécurité des barrages (tous les cinq à sept ans, selon la classification des risques liés aux barrages). En outre, des inspections détaillées doivent être effectuées après le ruissellement du printemps et après tout événement inhabituel, tel que de fortes pluies, des tempêtes de vent ou des événements sismiques. Les niveaux d'eau dans les bassins de stockage doivent être enregistrés quotidiennement et une étude détaillée de la surface des stériles doit être réalisée chaque année afin de faciliter la planification du dépôt des résidus et le calendrier de construction.

14.2 Instrumentation

La performance du tas de résidus filtrés peut être déduite, en partie, grâce aux instruments placés dans les fondations. Un plan d'instrumentation basé sur les conditions rencontrées et les observations faites pendant la construction devra être élaboré et mis en œuvre dès que possible après la construction. Les facteurs à prendre en compte dans l'élaboration du plan d'instrumentation comprennent les conditions et les difficultés rencontrées pendant la construction, ainsi que les résultats du suivi de la construction des matériaux de remblayage et de leur mise en place.

Au minimum, il est prévu que des instruments soient nécessaires pour surveiller les niveaux piézométriques à l'intérieur du tas de résidus filtrés et des sols de fondation de chacun des bassins de confinement. Des plaques de tassement, installées à une profondeur qui pénètre la profondeur maximale prévue du gel, doivent être installées sur la crête des barrages avec les piézomètres afin de surveiller le tassement. Des inclinomètres peuvent également être installés pour surveiller les déformations latérales à l'intérieur du barrage. Pour les haldes à stériles, des plaques de tassement et des inclinomètres doivent être installés au fur et à mesure de leur développement.

Au départ, les mesures du niveau d'eau dans les piézomètres devraient être effectuées toutes les deux semaines. Une fois stabilisée, la fréquence de surveillance sera probablement réduite à des relevés mensuels, à condition qu'aucune condition anormale n'ait été observée pendant la période de surveillance initiale. Des instruments supplémentaires et/ou une surveillance plus fréquente pourraient être nécessaires si la surveillance initiale ou les observations enregistrées lors des inspections des installations révèlent des conditions inhabituelles.

14.3 Surveillance des eaux souterraines et des eaux de surface

Il faut s'attendre à des infiltrations à travers et sous les haldes et les bassins. Un réseau de puits de surveillance des eaux souterraines doit être installé en aval des haldes et des bassins afin de surveiller tout changement dans la qualité des eaux souterraines. Un puits de surveillance doit être installé en amont afin de servir d'indicateur de la qualité des eaux souterraines. L'emplacement et le nombre de puits de surveillance des eaux souterraines à installer devront respecter les exigences réglementaires et seront détaillés dans l'EIES.

En plus de la surveillance des eaux souterraines, il est également suggéré de surveiller la qualité des eaux de surface dans les ruisseaux en aval et autour des haldes à stériles.

15. Estimation des coûts

Les estimations des coûts du projet ont été élaborées par GMining. AtkinsRéalis a fourni les relevés des quantités de matériaux (RQMs) pour les différents aspects du projet. Les RQMs sont inclus dans **l'Annexe E.**

16. Conclusions et recommandations

16.1 Gestion de l'eau

Les systèmes de gestion et de traitement de l'eau proposés pour le projet lithium Shaakichiuwaanaan ont été développés afin de répondre aux exigences réglementaires et d'assurer la fiabilité et la protection de l'environnement tout au long du cycle de vie de la mine. La stratégie de gestion de l'eau à l'échelle du site sépare efficacement les eaux de contact et les eaux sans contact, regroupe les eaux traitées en un seul point de rejet et assure le transport sécuritaire des eaux de ruissellement par des fossés, des bassins et des systèmes de pompage spécialement conçus.

Les principales conclusions sont les suivantes :

- Gestion des eaux de contact : Toutes les eaux de contact générées par les infrastructures de la mine, y compris les haldes à stériles, les zones industrielles et les activités de drainage, seront collectées par un réseau de fossés et de bassins. Ces flux seront transférés via des stations de pompage vers des installations de traitement désignées. Au total, quatre (4) bassins ont été conçus pour gérer les eaux de ruissellement provenant des haldes 001 et 002, tandis que deux bassins supplémentaires desserviront la zone industrielle. Des stations de pompage seront installées à chaque bassin afin de faciliter le transfert de l'eau vers les installations de traitement désignées. De plus, les flux de drainage provenant des opérations à ciel ouvert et souterraines seront pompés directement vers les systèmes de traitement.
- Traitement de l'eau :
  - Deux (2) types distincts d'eau de contact sont prévus dans le cadre de ce projet :
    - Eau contaminée par des matières en suspension totales (MES) :
    - Cette catégorie comprend les eaux contaminées par les stériles inertes, les zones industrielles et les activités de drainage des mines. Elles seront d'abord traitées dans des bassins de sédimentation, puis dans un bassin de polissage pour une clarification finale. En cas de concentrations élevées de MES, provenant notamment du drainage des mines ou des anciens lacs, un espace désigné au sein de la zone industrielle a été réservé pour accueillir un traitement physico-chimique supplémentaire, notamment des systèmes de clarification à haut débit.
    - Eau contaminée par la lixiviation des métaux et les matières génératrices d'acide :
    - Ce type d'eau contient principalement des contaminants, tels que l'arsenic, associés à des stériles et des stériles PGA et de LM. Le traitement comprendra un processus physico-chimique comprenant l'ajustement du pH, l'utilisation d'agents chélateurs, la coagulation et la floculation. L'eau traitée sera ensuite dirigée vers le bassin de polissage pour un polissage final avant d'être rejetée.
  - Bien que du lithium ait été détecté dans les eaux de ruissellement provenant de la section des stériles de la halde 002, aucun traitement spécifique n'est actuellement mis en œuvre, car le lithium n'est pas réglementé par la directive 019 ou le MDMER. Cependant, l'optimisation du processus de concentration devrait améliorer la récupération du lithium et réduire sa concentration dans les résidus.
  - Deux (2) chaînes de traitement ont été conçues afin de réduire les dépenses d'investissement initiales et de suivre l'augmentation de la superficie de la halde à stériles et le développement de la mine. Un espace a été réservé à proximité des systèmes de traitement de l'eau afin de permettre une expansion future si nécessaire .

- Rejet final : L'objectif global est de regrouper toutes les eaux traitées en un seul point de rejet pour l'ensemble du site. Toutes les eaux traitées seront rejetées dans la rivière CE15 via un système de diffusion souterrain conçu pour assurer un mélange efficace et minimiser l'impact environnemental. La modélisation hydraulique confirme que les effluents seront entièrement mélangés à moins de 200 mètres en aval du point de rejet.
- Bilan hydrique et résilience climatique : Un modèle de bilan hydrique à l'échelle du site a été développé à l'aide de GoldSim, simulant les débits quotidiens dans des scénarios climatiques moyens, secs, humides et extrêmes. Le modèle confirme que le système peut gérer les débits de pointe, maintenir les revanches et garantir la fiabilité opérationnelle même dans des conditions de crue conservatrice.
- Infrastructure de dérivation : Le développement du projet nécessite la mise en œuvre d'un système de dérivation du lac afin de rediriger les écoulements du lac 001. Ce système se compose d'un fossé de dérivation et d'une série de barrages échelonnés. Il est conçu pour acheminer en toute sécurité le PMF et maintenir la continuité de l'habitat des poissons en intégrant des chutes, des bassins et des placements de rochers. Le fossé, d'une longueur d'environ 870 mètres, sera construit au cours de la deuxième année et traversera le roc avec des pentes latérales de 1H:1V. Il redirigera le débit du lac 001 vers le lac 05, affectant environ 1,9 km² du bassin versant du lac.
- Gestion de l'eau des morts-terrains et des piles organiques : Les eaux de ruissellement provenant de ces piles seront gérées à l'aide de systèmes de bassins qui favorisent l'infiltration et l'évaporation, réduisant ainsi le volume d'eau à traiter.

Afin de soutenir la prochaine phase de développement du projet et de garantir le maintien de la conformité et des performances, les recommandations suivantes sont formulées :

- Gestion de l'eau et infrastructures
  - Analyse des risques de rupture de barrage et d'inondation : réaliser des évaluations détaillées des risques de rupture des barrages et des bassins d'eau de contact, en particulier ceux qui gèrent les eaux de ruissellement provenant des matériaux PGA, afin d'évaluer les risques en aval et les protocoles d'intervention d'urgence.
  - Évaluation de l'élévation de la crête des barrages et de la configuration du vent : surveiller les fluctuations saisonnières du niveau d'eau dans le lac 001 et effectuer une analyse de la configuration du vent afin de valider l'adéquation de la revanche dans des conditions extrêmes. Ces évaluations permettront de confirmer ou d'ajuster l'élévation proposée de la crête des barrages et d'assurer un confinement sûr en cas de vents violents et d'événements hydrologiques.
  - Optimisation de la conception des déversoirs : Réaliser la conception hydraulique complète de tous les déversoirs de secours, y compris la géométrie des chutes, les bassins de dissipation, la protection contre l'érosion et la confirmation de l'emplacement des déversoirs par rapport aux digues des bassins et aux récepteurs en aval.
  - Mesures de contrôle de l'érosion du canal de dérivation : affiner l'évaluation des risques d'érosion à l'aide d'une modélisation hydraulique en 2D afin d'identifier les zones à fort potentiel d'érosion le long du canal de dérivation, en particulier à proximité des rapides, des chutes et des rétrécissements. Ces zones doivent être prioritaires pour la mise en place de mesures de protection ciblées.
  - Conception de la passe à poissons du canal de dérivation : Les recommandations pour la passe à poissons incluent l'intégration de chutes et de bassins dans le lit du canal afin de varier le débit. Une évaluation hydraulique affinée est recommandée afin d'évaluer les conditions d'écoulement dans l'ensemble du canal et de garantir la connectivité écologique et la fonction d'habitat à long terme.
  - Validation des bassins de rétention : confirmer le dimensionnement et la performance des systèmes de bassin autour des morts-terrains et des piles organiques grâce à une modélisation hydrologique et une validation sur le terrain. Les besoins en contrôle de l'érosion à long terme et en entretien doivent également être évalués.

- Affinement du modèle de bilan hydrique : Mettre à jour le modèle de bilan hydrique à l'échelle du site à l'aide de données climatiques récentes et de mesures sur le terrain. Il est recommandé de recourir à des simulations probabilistes pour évaluer l'incertitude et faciliter la prise de décisions opérationnelles.

- Traitement de l'eau :
  - Le système de traitement de l'eau a été conçu sur la base des données les plus récentes issues des modèles de bilan hydrique et géochimique. Il est recommandé de mettre à jour la base de conception lors de la prochaine phase du projet afin de refléter les dernières découvertes géochimiques.
  - Le système a été développé pour répondre aux critères de la directive 019 et aux exigences de la réglementation MDMER. Le projet devrait recevoir les objectifs de rejet environnemental du MDDEFP, lesquels tiendront compte de la capacité de l'environnement récepteur à accepter les effluents. Des modifications du système de traitement pourraient être nécessaires une fois ces objectifs reçus.
  - Certains paramètres, tels que le lithium, ne sont pas pris en compte dans la conception actuelle du traitement de l'eau. Une surveillance continue des effluents entrants et sortants est nécessaire, et le système de traitement devrait être mis à jour si nécessaire en fonction des résultats de la surveillance.
  - Un espace a été réservé à proximité de l'infrastructure de traitement de l'eau pour accueillir une éventuelle unité de traitement future. Cette mesure a été prise afin de garantir la conformité aux exigences réglementaires en matière de MES ou d'ammonium, si un traitement supplémentaire s'avérait nécessaire.
  - Un seul point de rejet est actuellement prévu pour ce projet, situé dans la rivière CE15. Une étude plus approfondie devrait être menée pour confirmer la faisabilité de cette conception et valider la capacité de la rivière à recevoir les effluents tout au long de l'année.
- Eau potable
  - Le système de production d'eau potable a été conçu en fonction de la population prévue de travailleurs dans le camp permanent. Si la capacité doit être ajustée, la conception du système de traitement devra être mise à jour en conséquence.
  - Il est nécessaire de prélever des échantillons d'eau douce du lac 308 conformément aux lignes directrices énoncées dans le document du MELSCC.
  - La disponibilité de l'eau dans le lac 308 a été évaluée à un niveau élevé afin de confirmer la disponibilité générale de la ressource. Cependant, une étude hydrologique détaillée est nécessaire pour garantir la disponibilité à long terme de l'eau douce pour la production d'eau potable, y compris en cas de sécheresse.
- Traitement des eaux usées
  - Le système de traitement des eaux usées a été conçu en fonction de la population prévue de travailleurs dans le camp permanent. Si la capacité doit être ajustée, la conception du système de traitement doit être mise à jour en conséquence.

16.2 Hydrogéologie

Un modèle tridimensionnel des eaux souterraines a été développé pour évaluer l'efficacité des mesures de contrôle des infiltrations proposées pour prévenir toute dégradation significative de la qualité des eaux souterraines due à d'éventuelles infiltrations provenant de la halde 002, car celle-ci stockera à la fois des stériles PGA/LM et des résidus non PGA/LM (Vision Geochemistry 2025).

Les mesures d'atténuation évaluées dans le cadre de cette étude consistaient en l'installation d'une géomembrane sous la halde 002 pendant l'exploitation de la mine, suivie de l'installation d'une couverture imperméable après la fermeture de la mine. Les résultats du modèle de transport des solutés suggèrent que le système d'atténuation est efficace, les concentrations de solutés atteignant les récepteurs environnementaux demeurent inférieures aux critères applicables après 200 ans.

Sur la base des résultats, des conditions du site, de la nature des matériaux stockés et des mesures d'atténuation proposées, et afin de garantir la conformité et la performance continues, les recommandations suivantes peuvent être formulées :

- Un contrôle et une assurance qualité efficaces doivent être mis en œuvre pendant l'installation de la géomembrane afin de minimiser le nombre de défauts et donc de réduire le taux de percolation à travers la géomembrane.
- Mettre en œuvre un programme de surveillance des eaux souterraines afin de contrôler la qualité des eaux souterraines autour de la halde 002, avec une surveillance périodique des eaux souterraines et un seuil de déclenchement approprié fixé pour atteindre les objectifs de protection de la qualité des eaux souterraines.
- Les projections obtenues à partir de l'étude de modélisation hydrogéologique doivent être comparées aux résultats de la surveillance des eaux souterraines recueillis sur le terrain. L'étude de modélisation hydrogéologique doit être mise à jour et recalibrée au besoin en fonction des données recueillies sur le terrain afin d'affiner les prévisions.

16.3 Gestion des déchets

Les résidus miniers seront triés et éliminés à différents endroits, comme décrits ci-dessous :

- La halde 001 stockera environ 54 Mt de « stériles à faible risque ». L'installation n'est pas munie de revêtement et les eaux de ruissellement sont collectées dans des fossés périphériques qui se déversent dans deux bassins. Cette eau est pompée vers les bassins de sédimentation de la zone industrielle pour la gestion des MES avant d'être réutilisée ou rejetée dans l'environnement. Les 29 Mt restantes de stériles à « faible risque » seront déversées dans la fosse ouest.
- La halde 002 stockera 54 Mt de résidus LM et 81 Mt de PGA/LM de stériles. La base de la halde 002 est recouverte d'une géomembrane. Les eaux de ruissellement provenant de cette halde sont collectées dans des fossés périphériques revêtus qui se déversent dans deux bassins également revêtus. L'eau collectée est pompée vers l'usine de traitement située dans la zone industrielle avant d'être réutilisée ou rejetée dans l'environnement. Les 17 Mt de résidus restants seront utilisées comme remblai en pâte pour la mine souterraine.
- Les 14 Mt de morts-terrains seront disposés dans les haldes 004 et 005 situées au sud de la mine à ciel ouvert. Les eaux de ruissellement provenant de ces piles seront gérées à l'aide d'un système de bassins de rétention.
- Deux haldes de terre végétale seront situées au sud de la halde 001. Ces piles serviront à stocker les matériaux décapés provenant du développement de la superficie.

Les systèmes de gestion des déchets proposés pour le projet lithium Shaakichiuwaanaan ont été développés afin de répondre aux exigences réglementaires et d'assurer la fiabilité et la protection de l'environnement tout au long du cycle de vie de la mine. Sur la base des résultats de l'étude, des conditions du site, de la nature des matériaux à stocker et des mesures d'atténuation proposées, les recommandations suivantes sont formulées pour la prochaine phase de l'étude :

- Des études géotechniques supplémentaires sont nécessaires afin de mieux caractériser les fondations des haldes à stériles et de déterminer la présence éventuelle de couches faibles sous leur superficie susceptible de présenter un risque de liquéfaction.
- Des études géotechniques sont également nécessaires pour mieux définir la profondeur du roc dans le fossé de dérivation proposé pour le lac 001, ainsi que dans les fossés de collecte et les bassins entourant les haldes 001 et 002.
- Il n'existe actuellement aucune information sur le profil du sol ou sur les caractéristiques géotechniques à l'emplacement de la station de traitement des eaux proposée. Pour les phases de conception futures, il est recommandé de mener des études géotechniques dans l'emprise de l'usine de traitement des eaux.
- Les études géotechniques doivent inclure les emplacements proposés pour les barrages des fosses ouest et est dans le lac 001 afin de déterminer l'épaisseur des sédiments lacustres et les caractéristiques du roc sous les barrages proposés.
- Les carrières d'emprunt potentielles doivent être identifiées pour les matériaux granulaires, et ceux-ci doivent être échantillonnés et testés.
- Une évaluation des risques sismiques spécifique au site doit être réalisée afin de déterminer la charge appropriée pour les analyses de stabilité sismique.

16.4 Fermeture

La phase de fermeture de la mine vise à assurer une transition responsable vers une utilisation durable des terres après l'exploitation, conformément aux exigences réglementaires du Québec et en collaboration avec les communautés autochtones. Elle repose sur une approche de planification progressive et structurée, comprenant la restauration progressive des zones inactives, le démantèlement des infrastructures industrielles et la mise en œuvre de stratégies de réhabilitation adaptées à chaque composante du site.

Les installations industrielles seront démantelées selon les principes de réduction, de réutilisation et de recyclage, tandis que les routes d'accès seront soit restaurées, soit entretenues en fonction de leur utilisation par la communauté. Les routes non essentielles seront mises hors service, les ponceaux seront retirés, les cours d'eau naturels seront restaurés et les surfaces seront remodelées et revégétalisées avec des espèces végétales indigènes afin de prévenir l'érosion.

Les haldes de stériles seront gérées en fonction de leur potentiel de génération de contaminants : la halde 001 sera restaurée avec une couverture végétale adaptée aux stériles à faible risque, tandis que la halde 002 sera restaurée à l'aide d'une couverture d'argile imperméable afin de limiter l'infiltration d'eau et d'empêcher la génération de contaminants.

La fosse à ciel ouvert sera naturellement inondée pour former un lac stable, sécurisé par des bermes et intégré au réseau hydrographique local.

Les bassins de gestion de l'eau seront remblayés une fois la qualité de l'eau confirmée, après caractérisation des sédiments et élimination appropriée. Les digues des bassins de collecte d'eau des haldes à stériles seront percées afin d'éviter toute accumulation d'eau à la base des structures.

Enfin, les empilements de morts-terrains et de sols organiques seront utilisés pour la construction de la couverture, puis restaurés par scarification et revégétalisation. Ces mesures visent à assurer la stabilité environnementale du site, à favoriser la réintégration écologique des terres et à répondre aux attentes des parties prenantes, en particulier des communautés locales et autochtones.

Afin de soutenir la prochaine phase de développement du projet et de garantir la conformité et la performance continues, les recommandations suivantes sont formulées :

- Sources potentielles de bancs d'emprunt : Des études doivent être menées afin d'identifier les matériaux argileux appropriés provenant de carrières d'emprunt potentielles pour la construction du système de couverture.
- Propriétés géotechniques requises : La faisabilité technique de la couverture d'argile dépend des propriétés spécifiques du matériau. Selon Benson et al. (1994) et Marcoen et al. (2000), cités dans Bussière et Guittonny (2020), les critères géotechniques recommandés pour l'argile utilisée comme barrière hydraulique sont les suivants :
  - Conductivité hydraulique ≤ 10^{-9} m/s;
  - Teneur en particules fines > 30 %;
  - Fraction argileuse (<2 µm) > 15 %;
  - Indice de plasticité (PI) > 7 %, mais < 20 % si des cycles de gel-dégel et d'humidité-sécheresse sont prévus ;
  - Limite de liquidité > 20 %;
  - Teneur en gravier < 50 %.
- Validation numérique : Il est fortement recommandé d'effectuer une modélisation des écoulements à l'aide du logiciel SEEP/W afin de valider la performance hydraulique de la couverture argileuse et d'intégrer dans le modèle l'effet prévu des changements climatiques.
- Optimisation de la gestion des stériles : Il convient de procéder à un examen de la gestion des stériles afin d'évaluer la possibilité d'une ségrégation supplémentaire pour réduire la quantité de stériles nécessitant un système de couverture imperméable (c'est-à-dire la réduction de la halde 002).
- Essais en laboratoire et sur le terrain : Des essais en laboratoire et sur le terrain doivent être envisagés dès le début du développement de la mine afin d'optimiser et d'évaluer les performances des systèmes de couverture proposés.

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Annexes

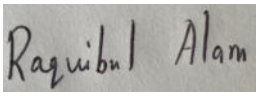
Annexe A Critères de conception

AtkinsRéalis	TECHNICAL NOTE Shaakichiuwaanaan Project – Waste and Water Management		
	Document No.: CASN-A-370-GT-DCR-0001 AtkinsRéalis: 702381-0000-4GEA-0001	**Rev.** C	**Date:** August 19, 2025

Title of document: **DESIGN BASIS AND CRITERIA – WASTE AND WATER MANAGEMENT**

Client: **PATRIOT BATTERY METALS INC.**

Project: **SHAAKICHIUWAANAAN PROJECT – WASTE AND WATER MANAGEMENT**

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List of Revisions

#	Prep.	Rev.	App.	Date	Pages	Remarks
B	RA	PA	BM	2025-01-29	All	Issue for client's comments
B1	HT/AC/PD	PA/TH		2025-05-06		
C	JD	PA	BM	2025-08-19	All	Issued as Final

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Appendix A – Site Location and Layout

1. Introduction

AtkinsRéalis has been retained by Innova, a wholly-owned Québec subsidiary of Patriot Battery Metals Inc., for a feasibility study for waste and water management for the Shaakichiuwaanaan Mining Project. The site is in the Eeyou Istchee James Bay region of Québec, Canada, with coordinates of 53°32'00" N, 73°55'00" W. It is approximately 220 km east of Radisson and about 240 km north-northeast of Nemaska. The Property comprises 463 mineral claims, covering roughly 23,710 hectares across two main claim groups. The largest of these groups extends nearly continuously for about 51 km in an east-west direction.

The project will extract spodumene from a pegmatite deposit using a hybrid method that includes open-pit and underground mining. In the initial phase (2029-2034), the estimated annual production rate will be 400 ktpa at a grade of 5.5% lithium oxide (Li2O) concentrate. This will increase to 800 ktpa in the expansion phase (2031-2051). The operating life of the project is currently estimated to be 22 years.

The project is expected to generate approximately 154.1 million tonnes (Mt) of waste rock, 16.9 Mt of overburden, and 71.1 Mt of tailings. Two types of waste rock will be produced: metal-leaching or potentially acid generating waste rock (estimated at 81.0 Mt) and non-leaching "Low Risk" waste rock (73.0Mt). Stockpile 001, located north of the open pit, will be designated for a portion of the "Low Risk" waste rock, about 43.5 Mt. The remaining "Low Risk" waste rock (29.6 Mt) will be placed in the open pit. Stockpile 002, situated northeast of the pit, will receive the potentially metal-leaching or potentially acid generating waste rock (81.0 Mt), and a portion of the filtered tailings (54.0 Mt). The remaining tailings, estimated as 17.1 Mt, will be disposed as paste backfill once the underground mine is operational. Overburden will be managed in Stockpile 004 and Stockpile 005, located south of the pit.

The development of the open pit is planned in two phases. Phase 1 will be from 2029 to 2034, while Phase 2 is scheduled for 2034 to 2045. Underground mining operations will run from 2031 to 2051. Before the commencement of Phase 1, a cutoff dam (Stage 1) will be constructed in Lake 001 together with a diversion ditch. This will allow for the pit development within the western portion of Lake 001 and continued discharge from Lake 001 to Lake 007, around the open pit. A second series of cutoff dams, located to the east will be required for the Phase 2 pit development. The dyke and diversion ditch will maintain the water level of Lake 001 at the current elevation of approximately 373 meters above sea level (m.a.s.l.) and redirect water around the northern perimeter of the pit. The general site layout is provided in **Appendix A**.

2. Scope

This document forms the design criteria and design basis for tailings management, the stockpiles, the cut-off dyke, and the diversion ditch, geotechnical aspects, water management, and hydrogeology (in the stockpiles area) for the Shaakichiuwaanaan Mining Project.

3. Units

The following units are used (the study is carried out using metric units):

- Distance – meter (m);
- Elevation – metres above mean sea level (m.a.s.l.);
- Volume – cubic meter (m^3);
- Pressure – kilo pascal (kPa);
- Unit Weight – Kilo-Newton (kN)/$m^{3;}$
- Temperature – Celsius (^oC);
- Time – seconds (sec), years (yr);
- Mass (in mining) – million tonnes (Mt);
- Production rate – kilotonnes per annum (ktpa).

4. Site Geology

The Shaakichiuwaanaan Property, located in the Archean Superior Province of the Canadian Shield, lies in the La Grande sub-province, near the Opinaca sub-province, and is renowned for its robust exploration potential for commodities, including base metals, precious metals, and lithium (PEA, 2024). The La Grande sub-province, a geological marvel, showcases a volcano-plutonic structure aligned with the Wemindji-Caniapiscau corridor. It comprises two primary domains, the Eastmain River Belt and the La Grande River Belt, each with its unique geological features (PEA,2024).

The Property is situated within the La Grande River Belt, characterized by volcanic and sedimentary rocks, including two ancient volcanic sequences and interstratified metasediments (PEA, 2024). The La Grande sub-province is bordered to the north by the plutonic Bienville sub-province and to the south by the metasedimentary and plutonic Opinaca sub-province (Lucas & St-Onge, 1998; Houle, 2004; Percival, 2007). The La Grande and Opinaca sub-provinces contain many of Québec's known spodumene pegmatite occurrences (PEA, 2024).

Metamorphism in the region varies from greenschist facies at the centre to amphibolite facies at the edges (Card, 1986; Houle, 2004). Structural trends shift from east-west in the southwest to northeast-southwest in the north, primarily formed between 2700 and 2680 Ma (Percival et al., 2012). The area is not just about potential; it is about significant discoveries that have already been made. It contains significant nickel-copper deposits associated with komatiitic flows, ultramafic intrusions, and notable spodumene pegmatite occurrences (PEA, 2024).

5. Design Criteria and Design Basis

The design criteria and basis summary for the stockpile and the dams are presented on the following page.

5.1 Applicable Legislation, Regulations, and Best Practice Guidelines

Item	Design Criteria and Basis	Reference
Provincial Standards	Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs (MELCCFP) ▪ The Provincial Directive 019 on the Mining Industry ▪ Dam Safety Regulation ▪ Dam Safety Act Ministère des Ressources Naturelles et des Forêts (MRNF) ▪ Guide de préparation du plan de réaménagement et de restauration des sites miniers au Québec -	MELCCFP, 2025 s-3.1.01, r. 1 - Dam Safety Regulation S-3.1.01 - Dam Safety Act MRNF, 2024
Canadian Dam Association Guidelines	Canadian Dam Association (CDA), Dam Safety Guidelines CDA Technical Bulletins ▪ Inundation, Consequences, and Classification for Dam Safety ▪ Surveillance of Dam Facilities ▪ Flow Control Equipment for Dam Safety ▪ Dam Safety Analysis and Assessment ▪ Hydrotechnical Considerations for Dam Safety ▪ Seismic Hazard Considerations for Dam Safety ▪ Geotechnical Considerations for Dam Safety ▪ Dam Safety Reviews ▪ Application of Dam Safety Guidelines to Mining Dams ▪ Tailings Dam Breach Analysis ▪ Environmental Consequence Classification CDA Guidelines ▪ Public Safety Around Dams	CDA, 2013 CDA, 2007a CDA, 2007b CDA, 2007c CDA, 2007d CDA, 2007e CDA, 2007f CDA, 2007g CDA, 2016 CDA, 2019 CDA, 2021 CDA, 2023 CDA, 2011

Item	Design Criteria and Basis	Reference
Others	Federal Metal and Diamond Mines Effluent Regulation	MDMER, 2024
	A Guide to the Management of Tailings Facilities	MAC, 2021a
	USBR Design of Small Dams	USBR, 1987
	USBR Design Standards No. 13: Embankment Dams	USBR, 2021
	USBR Design Standards No. 14: Appurtenant Structures for Dams (Spillways and Outlet Works) Design Standard	USBR, 2022
	USBR Design of Stilling Basins and Energy Dissipators	USBR, 1984
	FEMA Technical Manual: Overtopping Protection for Dams	FEMA, 2014
	USACE Hydraulic Design of Flood Control Channels (EM 1110-2-1601)	USACE, 1994
	NCHRP Report 568, Riprap Design Criteria, Recommended Specifications, and Quality Control, 2006	NCHRP, 2006
	ICOLD Bulletin 157 Small Dams, Design, Surveillance and Rehabilitation	
	Guidelines for Mine Waste Dump and Stockpile Design.	ICOLD, 2016
		Hawley and Cunning, 2017

5.2 Mine Description

Item	Design Criteria and Basis	Reference
Name of Mine	Shaakichiuwaanaan	
Facility location	Category III lands of the Eeyou Istchee Cree Territory, James Bay, Quebec.	See Appendix A
Reserves	Total Ore: 87.2 Mt Average LiO_2% grade:1.26 Tonnes of concentrate @5.5% LiO2: 13.7 Mt	Project Charter (GMining)
Projected Mine Life	22 years	GMining, 2025
Mineralogy of the Main Ore Body	Spodumene ($LiAlSi_2O_6$)	PEA, 2024
Type of Mine	Open pit and underground	PEA, 2024
Process and Reagents	Ferrosilicon 270 (DMS) Magnafloc 10 (Thickening and dewatering)	PEA, 2024
Treatment Processes	Fresh ferrosilicon (“FeSi”) will be added to a mixing hopper, which will then be fed continuously via screw feeders to each DMS’s respective medium header box. Flocculant mixing will be completed in a designated area within the plant with a dedicated sump pump that recycles spillage to the thickener feed tank.	PEA, 2024
Processing Capacity	Stage 1: 2.5 Mtpa DMS Plant Stage 2: 5.0 Mtpa DMS Plant dual train	Project Charter (GMining)
Mine Waste Production	Waste Rock: 154.1 Mt Overburden: 16.9 Mt Tailings: 71.1 Mt	GMining, 2025
Backfill	17.1 Mt of tailings will be used for underground backfill	GMining, 2025
Coordinate Reference System	UTM-NAD83-ZONE18	PROJECTED_CRS for Qb
Topographical Surveys	LiDAR and orthophoto survey in August 2022. A LiDAR and orthophoto survey, and heliborne magnetic and radiometric survey have also been completed in 2024 over the JBN-57 claim block.	NI 43-101 Technical Report, PEA

5.3 Climate Conditions and Meteorology

Item	Design Criteria and Basis	Reference
Climate Classification	Sub-arctic climate, Dfc in terms of the Köppen climate classification	
Weather Station(s)	Environment and Climate Change Canada (ECCC) Stations near site are: ▪ La Grande IV station (7093GJ5) ▪ La Grande IV A station (7093GJ3) ▪ La Grande 4 A station (7093714) ▪ Nitchequon station (7095480)	AtkinsRéalis, 2025
Temperature	Average annual temperature is -3.1 degrees Celsius	AtkinsRéalis, 2025
Precipitation	Average annual precipitation is 772 mm which includes 518 mm of rainfall and 254 cm of snowfall	AtkinsRéalis, 2025
Evapotranspiration	Average annual lake evaporation is 421 mm and maximum evapotranspiration under average conditions is 390 mm	AtkinsRéalis, 2025
Wind	The predominant wind direction is from the southwest (see Figure 6-1 for wind roses)	Weather Spark, 2020
Climate Change Effect	Climate change increase factor of 18% for extreme precipitation Climate change increase factor of 5% for extreme snow cover Climate change increase factor of 8% for annual and monthly precipitation	AtkinsRéalis, 2025

5.4 Tailings Management

Item	**Design Criteria and Basis**	**Reference**
Description	**Tailings**	
Tailings Production	71.1 Mt	GMining, 2025
Particle Size Distribution	P_{80} = 7.7 mm P_{50} = 3.8 mm P_{10} = 0.4 mm	WSP, 2025
Specific Gravity	2.68	WSP, 2025
Filtered tailings moisture content	12-14% (M_{water}/M_{total}) ~ 13.6-16.3% (M_{water}/M_{solids})	Primero e-mail correspondence 5 December 2024
Standard Proctor Max Dry Density	1,958 kg/m^3	WSP, 2025
Standard Proctor Optimum Water Content	11.7% (M_{water}/M_{solids}) ~10.5% (M_{water}/M_{total})	WSP, 2025 Estimated by AtkinsRéalis
Plasticity	Non-plastic	WSP, 2025
Average in-situ dry density (for conversion to volume)	1.70 t/m³ which is approximately 90% of the maximum standard Proctor dry density	Selected by AtkinsRéalis
Consolidation Properties	The average coefficient of consolidation, Cv, (cm²/s) = 0.0532	WSP, 2025
Hydraulic Conductivity	Average Hydraulic Conductivity (cm/s) = 9.46E-04	WSP, 2025
Tailings Deposition	Filtered tailings are transported with mine trucks from the concentrator to the final disposal area or the paste backfill plant with a front-end loader.	PEA, 2024

5.5 Stockpiles

Item	Design Criteria and Basis	Reference
Stockpile 001		
Mine Waste	43.5 Mt (Low-Risk waste rock)	Designed by AtkinsRéalis. The remaining 29.6 Mt of Low-Risk mine waste will be dumped into the open pit
Hazard Classification	Moderate hazard (WHC III)	Preliminary, based on Hawley and Cunning, 2017
Base Lining	Not required	Selected by AtkinsRéalis, based on geochemical characterization of waste rock
Stockpile Geometry	Bench Height: 10 m Intermediate bench width: 15 m Overall slope: 3.25 (Horizontal): 1 (Vertical)	GMining (meeting discussions 14 January 2025) -Selected by AtkinsRéalis
Maximum Height	Approx. 90 m (measured from the max elevation to the downstream toe)	Designed by AtkinsRéalis
Average in-situ dry density	Waste rock: 2 t/m^3	Selected by AtkinsRéalis
Water Management	Runoff collected by perimeter ditches at the toe of the stockpile and directed to the stockpile pond	Selected by AtkinsRéalis
Minimum offset from toe of stockpile to an existing water body	60 m	MELCCFP, 2025
Stockpile 002		
Mine Waste Description	81.0 Mt of waste rock (Potentially Acid Generating) 54.0 Mt of tailings	AtkinsRéalis, the 81 Mt total of potentially leaching in concentration below the D019 table 1 criteria and acid-generating waste rock is based on discussions with Vision and Patriot Battery Metals on 7 January 2025
Hazard Classification	Waste Rock - Moderate hazard (WHC III) Tailings stack - Moderate hazard (WHC III)	Preliminary, based on Hawley and Cunning, 2017

Item	**Design Criteria and Basis**	**Reference**
Base Lining	Single liner: 1.5 mm HDPE Liner Cushion Layer: 1m	MELCCFP, 2025
Stockpile Geometry	Bench Height: 10 m for waste rock and 30 m for tailings Bench width: 7.5m for tailings and 15 m for waste rock Overall slope: 3.25 (Horizontal): 1 (Vertical) for all types (i.e. tailings, and Waste rock)	GMining (meeting discussions 14 January 2025) Selected by AtkinsRéalis
Maximum Height	120 m (measured from the max elevation to the downstream toe)	Designed by AtkinsRéalis
Average in-situ dry density	Waste rock: 2 t/m^3 Tailings: 1.7 t/m^3 (which is approximately 90% of the maximum standard Proctor dry density)	Selected by AtkinsRéalis Selected by AtkinsRéalis
Water Management	Runoff and seepage are directed to ditches at the toe of the stockpile and directed to the stockpile ponds	Selected by AtkinsRéalis
Minimum offset from the toe of the stockpile to an existing water body	60 m	MELCCFP, 2025
Overburden Piles 004 and 005		
Mine Waste Description	Overburden Pile 004: 8.1 Mt of overburden Overburden Pile 005: 8.8 Mt of overburden Organic Stockpile: 1.6 Mt	GMining, 2025 Estimated by AtkinsRéalis
Hazard Classification	Low Hazard (WHC II)	Preliminary, based on Hawley and Cunning, 2017
Base Lining	None	
Pile Geometry	Continuous external slope stockpile 004 and 005: 4H:1V Continuous external slope organic stockpile: 5H:1V	Selected by AtkinsRéalis
Maximum Height	Stockpile 004: 36 m (measured from the max elevation to the downstream toe) Stockpile 005: 39 m Organic Stockpile: 27 m	Designed by AtkinsRéalis
Average in-situ dry density	Overburden: 1.75 t/m^3	Selected by AtkinsRéalis
Water Management	Runoff directed to collection paddocks at the toe of the pile for store and seep	Selected by AtkinsRéalis

5.6 Water Management for Stockpiles

Item	Design Criteria and Basis	Reference
Perimeter Drainage System		
Design Storm	1:100-year 24-hr summer rainfall event	MELCCFP, 2025
Design Flow Calculation Methodology	Rational Method	Selected by AtkinsRéalis
Runoff Coefficient	Considering high moisture conditions	Selected by AtkinsRéalis
Ditch Dimensions	Trapezoidal (Side slope: 2H:1V or flatter)	Selected by AtkinsRéalis
Ditch Lining	Stockpile 001: Unlined Stockpile 002: 1.5 mm LLDPE geomembrane for run-off collection from leaching/PAG rockfill and tailings	based on preliminary results of the geochemical characterization by Vision Geochemistry as provided at meeting on Jan 21st, 2025.
Erosion protection	Stockpile 001: Riprap and non-woven needle punched geotextile Stockpile 002: 1.5 mm LLDPE geomembrane plus riprap and non-woven needle punched geotextile on the base of the ditch.	Selected by AtkinsRéalis
Minimum Freeboard	0.6 m	USACE, 1994 / NCHRP, 2006
Collection Ponds		
Dam Dimensions	Crest Width: 10 m Dam Slopes: 3H:1V upstream (lined), 2H:1V downstream	Selected by AtkinsRéalis
Seepage Control	1.5 mm LLDPE geomembrane on the upstream slope	Selected by AtkinsRéalis
Basin/Pond Lining	Stockpile 001 Ponds: Unlined Stockpile 002 Ponds: 1.5 mm LLDPE geomembrane	based on preliminary results of the geochemical characterization by Vision Geochemistry as provided at the meeting on Jan 21st, 2025.
Dam Hazard Classification	Pond 1 (Stockpile 001): Significant Pond 1A (Stockpile 001): Significant Pond 2 (Stockpile 002): Significant Pond 3 (Stockpile 002): Significant	CDA, 2019
Return Period for Design Seismic Event	1 in 2,475-year event (minimum)	MELCCFP, 2025

Item	Design Criteria and Basis	Reference
Inflow Design Flood (IDF)	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP). The more critical one of the spring or summer PMFs.	MELCCFP, 2025
Environmental Design Flood (EDF)	Stockpile 001 Ponds 1 and 1A: ▪ 1:100-year snowmelt followed by a 1:100-year 24-hr rainfall event Stockpile 002 Ponds 2 and 3: ▪ 1:100-year snowmelt followed by 1:2,000-year 24-hr rainfall event	MELCCFP, 2025
Freeboard	Minimum Freeboard for EDF: ▪ For Stockpile 001 ponds: 1.0 m ▪ For Stockpile 002 ponds: 1.5 m. Minimum Freeboard for IDF: 0.6 m	MELCCFP, 2025 OMNR, 2011
Spillway Geometry	Trapezoidal (Side slope: 2H:1V or flatter)	Selected by AtkinsRéalis

5.7 Water Management for Industrial Area

Item	Design Criteria and Basis	Reference
Sedimentation Ponds and Polishing Pond		
Dam Dimensions	Crest Width: 10 m Dam Slopes: 3H:1V upstream (lined), 2H:1V downstream	AtkinsRéalis
Seepage Control	1.5 mm LLDPE geomembrane on the upstream slope and pond base with underdrainage collection and pump-back system	AtkinsRéalis
Basin/Pond Lining	1.5 mm LLDPE geomembrane	AtkinsRéalis
Dam Consequence Classification	Significant	CDA, 2019; 2023
Dam Hazard Classification	Not applicable (no watercourse crossings)	Quebec Dam Safety Act
Pond Water Characterization	Sedimentation Ponds: Low risk Polishing Pond: Low risk	Assumed by AtkinsRéalis based on MELCCFP, 2025
Environmental Design Flood (EDF)	Sedimentation Ponds: 1:1,000-year Polishing Pond: 1:1,000-year	Selected by AtkinsRéalis as per MELCCFP, 2025
Inflow Design Flood (IDF)	PMF	Selected by AtkinsRéalis as per MELCCFP, 2025
Minimum Freeboard above EDF	Sedimentation Ponds: 1.0 m Polishing Pond: 1.0 m	Selected by AtkinsRéalis as per MELCCFP, 2025
Minimum Freeboard above IDF	0.6 m	AtkinsRéalis
Pond Inflows	Sedimentation Ponds: ▪ Dewatering water from open-pit and underground mines, dewatering of Lake 001 and run off from industrial area Polishing Pond: ▪ Sedimentation ponds, stockpile 001 collection ponds and treated water from water treatment	AtkinsRéalis

Item	Design Criteria and Basis	Reference
Pond Outflows	Sedimentation Ponds: ▪ Gravity discharge to the polishing pond Polishing Pond: ▪ Pumped to the paste plant and water supply, ▪ Outlet structure for operational discharge to the environment, ▪ Emergency spillway to discharge to the environment during flood conditions.	AtkinsRéalis
Spillway Geometry	Sedimentation Ponds: ▪ Trapezoidal/Rectangular Polishing Pond: ▪ Outlet Structure: HDPE pipes ▪ Emergency spillway: Trapezoidal (3H:1V or flatter) with concrete sill	AtkinsRéalis
Minimum offset from the downstream toe of the pond dam to an existing waterbody	60 m	MELCCFP, 2025
Return Period for Design Seismic Event	1:2,475 years	MELCCFP, 2025
Pond Service Life	To be removed prior to post-restoration period	As per MRNF, 2024
Contact Water Ponds		
Pond Slopes	3H:1V	AtkinsRéalis
Seepage Control	1.5 mm LLDPE geomembrane on pond slopes and pond base with underdrainage collection and pump-back system	AtkinsRéalis
Basin/Pond Lining	1.5 mm LLDPE geomembrane	AtkinsRéalis
Dam Consequence Classification	Not applicable (no dam embankment)	AtkinsRéalis
Dam Hazard Classification	Not applicable (no watercourse crossings)	Quebec Dam Safety Act

Item	**Design Criteria and Basis**	**Reference**
Pond Water Characterization	Low risk	Assumed by AtkinsRéalis based on MELCCFP, 2025
Environmental Design Flood (EDF)	1:100-year rainfall + 1:100-year snowfall	Selected by AtkinsRéalis as per MELCCFP, 2025
Inflow Design Flood (IDF)	Not applicable (no dam embankment)	AtkinsRéalis
Minimum Freeboard above EDF	1.0 m	Selected by AtkinsRéalis as per MELCCFP, 2025
Minimum Freeboard above IDF	Not applicable (no dam embankment)	AtkinsRéalis
Pond Inflows	Contact Water Pond 1 and 2: ▪ Runoff from the industrial area by gravity	AtkinsRéalis
Pond Outflows	Contact Water Pond 1 and 2: ▪ Pumped to Sedimentation Ponds	AtkinsRéalis
Spillway Details and Dimensions	Not applicable (no dam embankment)	AtkinsRéalis
Minimum offset from pond to an existing waterbody	60 m	MELCCFP, 2025
Return Period for Design Seismic Event	Not applicable (no dam embankment)	AtkinsRéalis
Pond Service Life	To be removed prior to the post-restoration period	As per MRNF, 2024
Industrial Area Diteches	**Not applicable (out of the scope of the mandate)**	**Designed by Gmining**

5.8 Lake 001 Cut-off Dams

Item	Design Criteria and Basis	Reference
Dam Dimensions	Crest Width Upstream Berm: 6m Crest Width Downstream Berm: 6m Minimum Dam crest width: 6 m Berm Slopes (upstream and downstream): 2.5H:1V; Central Berm: 3H:1V	Based on the stability analysis
Dam Crest Elevation	378.4m	After providing 1.5m freeboard from IDF water level (~376.9m)
Dam Hazard Classification	Extreme	Preliminary, selected by AtkinsRéalis, based on CDA, 2013
Dam Class	Class C	Quebec Dam Safety Act, chapter S-3.1.01, r. 1
Return Period for Design Seismic Event	1/10,000 or Maximum Credible Earthquake event for “Extreme” Dam Classification	CDA, 2019; MELCCFP, 2025
Inflow Design Flood (IDF)	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP). The more critical one of the spring or summer PMF	CDA, 2019; MELCCFP, 2025
Minimum Freeboard	Minimum Freeboard for IDF: 1.5 m	S-3.1.01 - Dam Safety Act
Erosion Protection	Dam is constructed primarily with -450 mm rockfill. No additional erosion protection is provided.	Selected by AtkinsRéalis
Seepage management	Sheet piles	Selected by AtkinsRéalis

5.9 Diversion Channel for Lake 001

Design Flow	Probable Maximum Flood (PMF) based on Probable Maximum Precipitation (PMP) The more critical one of the spring or summer PMF	CDA, 2013
Channel Geometry	Trapezoidal	Selected by AtkinsRéalis
Dimensions	Side slope: 1 H: 1 V, steeper in blasted rock sections	Selected by AtkinsRéalis
Erosion Protection	RipRap lining for ditch in overburden	Selected by AtkinsRéalis
Minimum Freeboard	0.6 m	USACE, 1994 / NCHRP, 2006

5.10 Seismic Design Criteria

Site Class	Class D	NBCC, 2020
Peak Ground Acceleration (PGA)	0.0642g for 1 in 2,475-year event (HPC: High) 0.1g for 1 in a 10,000-year event (HPC: Extreme)	NBCC, 2020 Extrapolated by AtkinsRéalis from NBCC, 2020. A site-specific hazard assessment is recommended as per MELCCFP, 2025

5.11 Geotechnical Design Basis

Seismic Liquefaction		
Susceptibility	Saturated and near-saturated (S_r > 80%) sand-like soils/tailings.	Selected by AtkinsRéalis
CRR for Sand-like material	Based on (S) SPT method: Boulanger and Idriss (2014) simplified method	Boulanger and Idriss, 2014
Fines Content Correction	Applied only to foundation soil, not to tailings	James, 2009
Factor of Safety against Liquefaction of Tailings and Sand-Like Soils (FOS_{Liq} = CRR/CSR)	FOS_{liq} < 1.0: Liquefiable FOS_{liq} between 1.0 to 1.3: Potentially liquefiable FOS_{liq} > 1.3: Not liquefiable	Selected by AtkinsRéalis
Cyclic softening		
Susceptibility	Saturated and near-saturated (S_r > 80%) clay-like soils meet the following plasticity index (PI) limits: ▪ Clays: PI < 7 ▪ Silts: PI < 12	Idriss and Boulanger, 2008 Bray and Sancio, 2006
CRR for Clay-like material	Based on the simplified method: Idriss and Boulanger (2008) simplified method.	Idriss and Boulanger, 2008
Factor of Safety against Cyclic Softening of Clay-Like Soils (FOS_{cs} = CRR/CSR)	FOS_{cs} < 1.0: Susceptible to cyclic softening	Selected by AtkinsRéalis

5.12 Geotechnical Parameters

Soil Classification	Soils encountered on site, classified according to ASTM D2487-17, Unified Soil Classification System (USCS) are as follows: ▪ ML – Silt/Sandy Silt ▪ SM – Silty Sand/Silty Sand with Gravel ▪ GM – Silty Gravel with Sand/Gravel with Silt and Sand ▪ GW – Gravel	Determined by AtkinsRéalis based on BBA, 2024

Soil Index Properties						
	USCS	ML	SM	GM	GW	Determined by AtkinsRéalis based on BBA, 2024
	Relative Density	Compact	Compact	Dense	Very Dense	
	Friction Angle, ϕ (°)	31	34	38	39	
	Unit Weight, Moist, γ_{moist} (kN/m^3)	18.5	19.0	20.0	20.5	
	Unit Weight, Submerged, $\gamma_{sub.}$ (kN/m^3)	9.5	10.5	11.5	12.5	
	Cohesion, c (kPa)	0	0	0	0	
	Void Ratio, e	0.83	0.56	0.42	0.36	

5.13 Loading and Seepage Conditions

Seepage Model Limits / Boundary Conditions (Lake 001 Cut-off Dam)	Upstream Boundary Condition: Lake 007 EL 373m Downstream Boundary Condition: towards Open Pit	Selected by AtkinsRéalis
Seepage Model Material Parameters	To be determined after analyzing laboratory and field investigation data	TBD

5.14 Geotechnical Design Criteria

Limit Equilibrium Analysis – Minimum Factors of Safety (Lake 001 Cut-off Dam)

Zone	Loading Conditions	Minimum Factor of Safety
Upstream and downstream	Slope stability at the end of each construction phase (short-term)	1.3 to 1.5
Upstream and downstream	Slope stability in the presence of the project flood (short-term)	1.3
Upstream and downstream	Slope stability under stationary conditions (long-term)	1.5
Upstream	Quick drain	1.3
Upstream and downstream	Pseudo-static or dynamic analysis for seismic loading, with filled basin and reduced properties if liquefaction possible	1.1
	(post-seismic value)	(1.3)
Central	Horizontal slippage of the dike under static loading	1.5
Central	Horizontal slippage of dike under liquefaction pressures	1.3
Central	Bearing capacity of soil under fill	1.5

MELCCFP, 2025

Limit Equilibrium Analysis – Minimum Factors of Safety (Stockpiles)

Loading Conditions	Minimum Factor of Safety
Dump/Soil Surface (short-term)	1.0
Dump/Soil Surface (long-term)	1.2
Overall global stability short-term (static), post-construction	1.3 to 1.5
Overall global stability long-term (static)	1.5
Pseudo-static or dynamic analysis for seismic loading	1.1 to 1.3

BCMWRPRC, 1991a
Hawley and Cunning, 2017

Piezometric Conditions	▪ Geotechnical analysis for the current condition is based on readings from the existing piezometers/BHs water level ▪ Geotechnical analysis for ultimate/closure condition is based on seepage analysis results.	Selected by AtkinsRéalis

5.15 Closure

Objectives	▪ Eliminate unacceptable health risks and ensure the safety of persons. ▪ Limit the production and spread of contaminants that may affect the receiving environment and, in the long term, aim to eliminate any form of maintenance and follow-up. ▪ Return the site to a visually acceptable condition. ▪ To remediate the infrastructure site (excluding tailings and tailings accumulation areas) in a state compatible with future use	Based on MRNF, 2024

Minimum safety factor targeted for stability analyses under closure conditions

Loading Condition	Minimum Factors of Safety			Minimum Factors of Safety for this Project (Closure)
	MDDEP (2012)	CDA (2019)	MRNF(2024)	
Static – End of construction	1.3 to 1.5	<1.3	1.3 to 1.5	1,5
Static – Long term (with NPS)	1.5	1.5	1.5	1.5
Static – Design Flood	1.3	-	1.3 to 1.5	1.3
Pseudo-static	1.1	1.0	1.1	1.1
Post-seismic	1.3	1.2	1.3	1.3
Horizontal Sliding (static) (1)	1.5	-	1.5	1.5
Horizontal Sliding (post-liquéfaction) (1)	1.3	-	1.3	1.3
Note : This condition will be included in the stability analysis (composite sliding surfaces)				

MELCCFP, 2025
CDA, 2019
MRNF, 2024

Earthquake Loading	The return interval for the earthquake loading for closure design will be either based on the hazard consequence classification as per CDA (2019) for the active and passive closure phases or as prescribed by MELCCFP (2025) which is 1 in 2,475 years for acid-generating residues (the greater loading shall apply).	CDA, 2019
Hydrotechnical Closure Criteria	MELCCFP (2025) recommends a design flood with a minimum return period of 100 years, for drainage systems with structures without water accumulation, on and around mine sites. Therefore, the following design criteria were adopted in the present study: ▪ The ditches or culverts design flood is generated by a summer-fall rainfall with a 1:100-yr return period. This return period should also be used in the Maintenance Program for the site. ▪ The transformation of rainfall into runoff is based on a conservative runoff coefficient of 1.0. (recommended by MTQ methodology)	MELCCFP, 2025
Vegetative Cover	There are generally no formal criteria for the evaluation of the vegetation management. Vegetation success on the different infrastructures and cover systems contribute to their integrity as it protects the top layers against erosion and contribute to the integration of the site to its surroundings. However, the roots should not penetrate so deeply as to affect the cover system, such as a geomembrane liner. Also, vegetation growth should not lead to blocking the ditches of the site.	AtkinsRealis
Cover System	Stockpile 001 – Waste Rock: A layer of overburden and topsoil Stockpile 002 – Waste Rock: A layer of crushed stone, overlain by a layer of overburden, a 1.5 mm HDPE geomembrane, a geonet, a layer of overburden and topsoil. Alternatively, a layer of compacted clay will be placed onto the waste rock and overlain with topsoil Stockpile 002 – Tailings: A 1.5 mm HDPE geomembrane placed directly onto tailings overlain with a geonet, a layer of overburden and topsoil. Alternatively, a layer of compacted clay will be placed onto the tailings and overlain with topsoil	AtkinsRealis

6. Supplemental Information

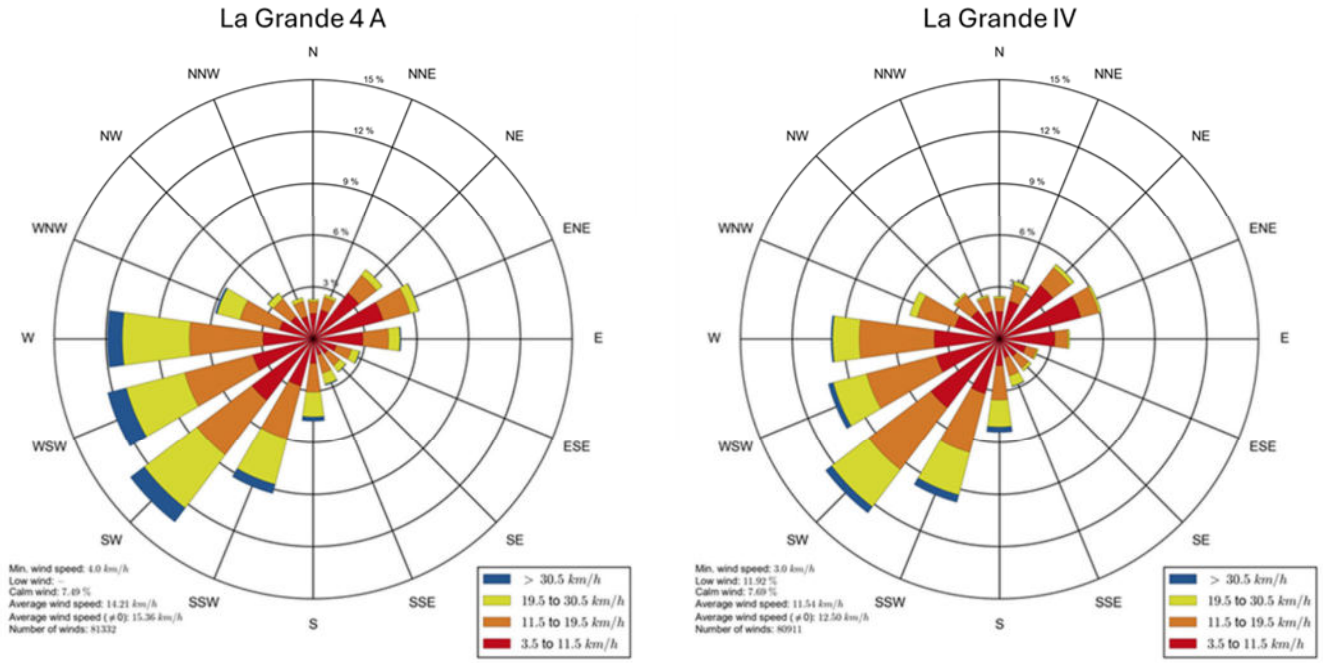


Figure 6-1 Wind Rose plots for La Grande 4 A and La Grande IV stations (established based on wind data from 2014 to 2024) (Provided by Client)

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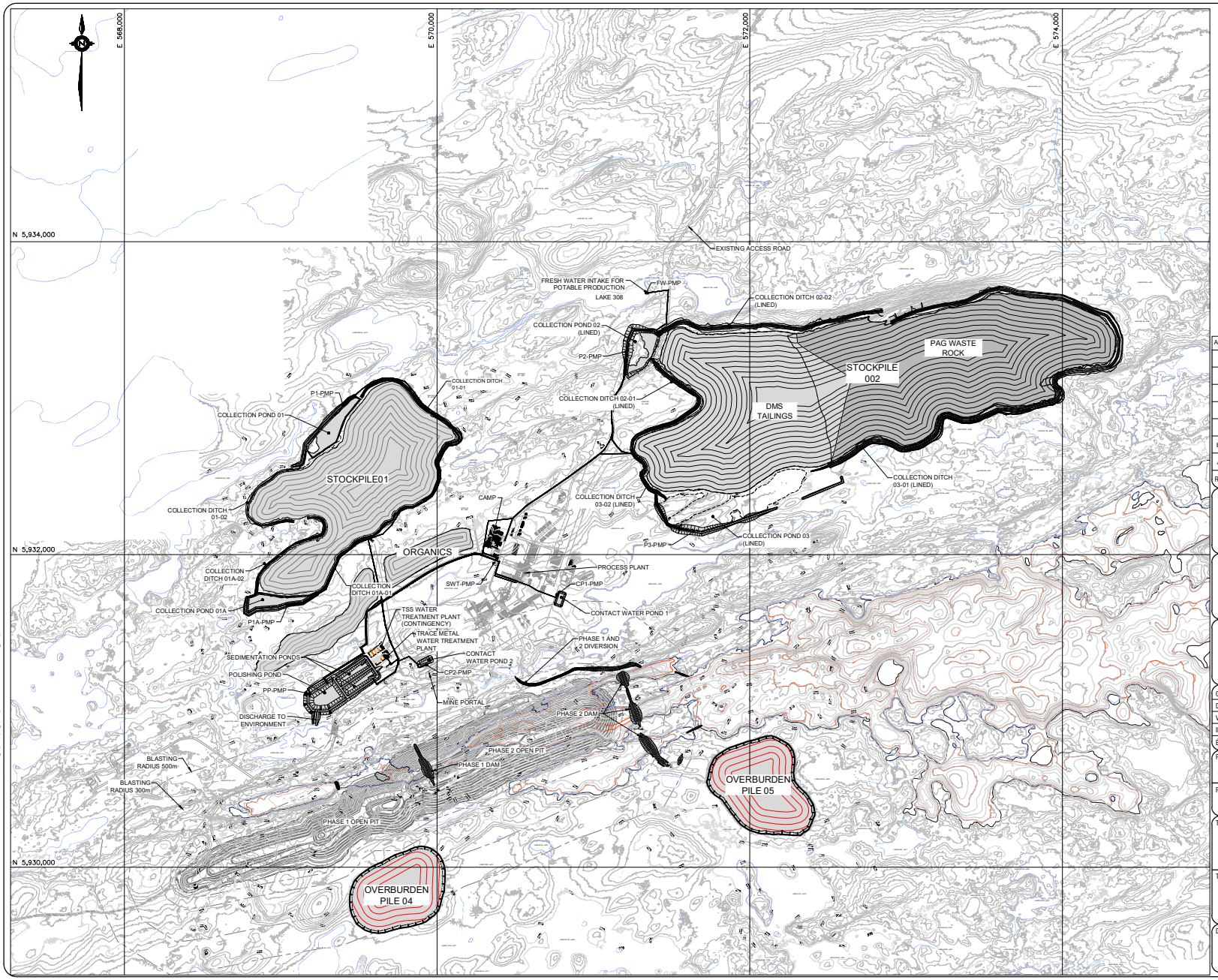
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Appendices

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Appendix A Site Location and Layout



ATKINSRÉALIS DOC#: 702381-0000-4GDD01-0001				
B	CLIENT REVIEW / COMMENT	A.C.	B.M.	25/07/28
A	INTERNAL REVIEW	A.C.	B.M.	25/04/12
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CONCEPTEUR/DESIGN: A. COGULET	25-07-28
DESSINATEUR/DRAWN: M. SYKES	25-07-28
VÉRIFIÉ PAR/CHECKED: P. ADDIS	25-07-28
INGÉNIEUR/ENGINEER: B. MORRISSETTE	25-07-28
ÉCHELLE/SCALE: 1:11,000	DATE

PROJET/PROJECT:
SHAAKICHIUWAANAAN

PHASE:
ÉTUDE DE FAISABILITÉ
FEASIBILITY STUDY

TITRE:
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TITLE
WATER MANAGEMENT
GENERAL ARRANGEMENT
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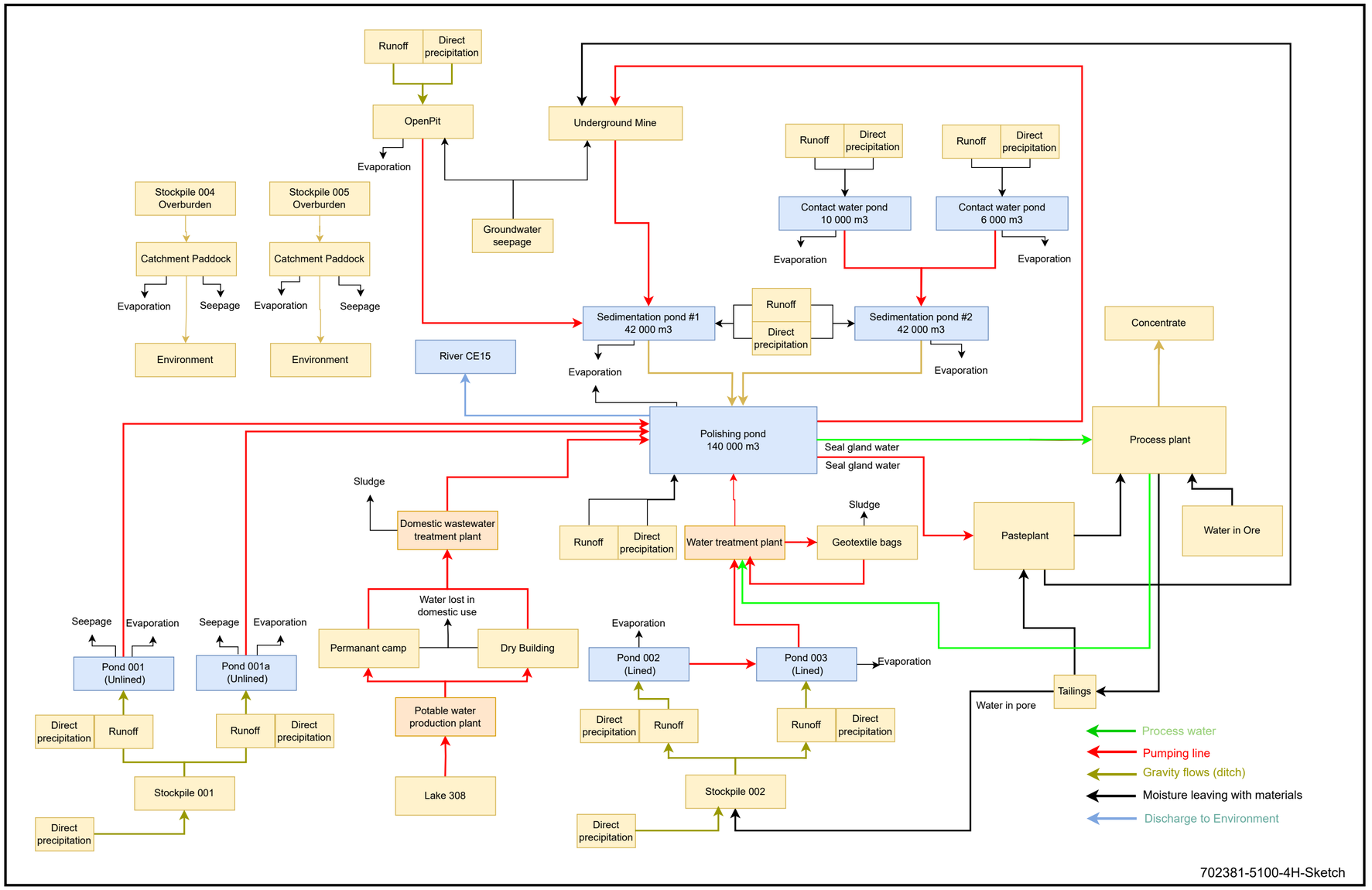
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AREA DISC. TYPE SEQ. REV.

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ATKINSRÉALIS - Sensitive

Annexe B Dessins


Runoff
Direct precipitation
OpenPit
Evaporation
Underground Mine
Groundwater seepage
Stockpile 004 Overburden
Stockpile 005 Overburden
Catchment Paddock
Catchment Paddock
Evaporation
Seepage
Evaporation
Seepage
Environment
Environment
Runoff
Direct precipitation
Contact water pond 10 000 m3
Runoff
Direct precipitation
Contact water pond 6 000 m3
Evaporation
Evaporation
Sedimentation pond #1 42 000 m3
Runoff
Direct precipitation
Sedimentation pond #2 42 000 m3
Evaporation
Evaporation
River CE15
Concentrate
Polishing pond 140 000 m3
Process plant
Seal gland water
Seal gland water
Sludge
Domestic wastewater treatment plant
Runoff
Direct precipitation
Water treatment plant
Sludge
Geotextile bags
Pasteplant
Water in Ore
Water lost in domestic use
Seepage
Evaporation
Seepage
Evaporation
Permanant camp
Dry Building
Evaporation
Pond 002 (Lined)
Pond 003 (Lined)
Evaporation
Pond 001 (Unlined)
Pond 001a (Unlined)
Potable water production plant
Tailings
Water in pore
Direct precipitation
Runoff
Runoff
Direct precipitation
Direct precipitation
Runoff
Runoff
Direct precipitation
Stockpile 001
Lake 308
Stockpile 002
Direct precipitation
Process water
Pumping line
Gravity flows (ditch)
Moisture leaving with materials
Discharge to Environment
702381-5100-4H-Sketch

PAPER SIZE FORMAT: A1

E 568,000 E 570,000 E 572,000 E 574,000

N 5,934,000 N 5,932,000 N 5,930,000

CV24-594 CV24-601 CV24-588 CV24-599 CV24-778 CV24-649 CV24-640 CV24-774 CV24-575 CV24-634 CV24-647 CV24-557 CV24-658 CV24-670 CV24-665 CV24-656 CV24-653 CV24-560 CV24-580 CV24-552 CV24-673 CV24-568 CV24-544 CV24-729 CV24-566 CV24-776 CV24-557 CV24-537 CV24-186 CV24-531 CV24-780 CV24-782 CV24-772 CV24-770 CV24-775 CV24-541 CV24-530 CV24-527 CV24-542 CV24-528 CV24-556 CV24-562 CV24-533 CV24-606 CV24-787 CV24-785 CV24-530 CV24-784 CV24-534 CV24-786

EXISTING ACCESS ROAD
FRESH WATER INTAKE FOR POTABLE PRODUCTION
FW-P
LAKE 308
COLLECTION DITCH 02-02 (LINED)
COLLECTION POND 02 (LINED)
P2-P
PAG WASTE ROCK
STOCKPILE 002
DMS TAILINGS
P1-P
COLLECTION DITCH 01-01
COLLECTION DITCH 02-01 (LINED)
COLLECTION POND 01
COLLECTION DITCH 03-01 (LINED)
STOCKPILE01
CAMP
COLLECTION DITCH 03-02 (LINED)
COLLECTION POND 03 (LINED)
P3-P
ORGANICS PILE 01
PROCESS PLANT
SWT-PMP
CP1-P
COLLECTION DITCH 01A-01
COLLECTION DITCH 01A-02
CONTACT WATER POND 1
PHASE 1 AND 2 DIVERSION CHANNEL
COLLECTION POND 01A
P1A-PMP
ORGANICS PILE 02
TSS WATER TREATMENT PLANT (CONTINGENCY)
TRACE METAL WATER TREATMENT PLANT
SEDIMENTATION PONDS
CONTACT WATER POND 2
CP2-P
POLISHING POND
PP-P
CONNECTION CHANNEL
DISCHARGE TO ENVIRONMENT
EAST PIT
EAST PIT DAMS
BLASTING RADIUS 500m
WEST PIT DAM
SEDIMENT CONTROL DAM 2
BLASTING RADIUS 300m
SEDIMENT CONTROL DAM 1
OVERBURDEN PILE 05
WEST PIT
OVERBURDEN PILE 04

NOTES

1. THE CO-ORDINATES, DIMENSIONS AND ELEVATIONS ARE IN METERS. ELEVATIONS ARE TIED TO MEAN SEA LEVEL. CO-ORDINATES ARE BASED ON UTM NAD83(CSRS) ZONE 18 METRIC GRID PROJECTION.
2. CONTOURS WERE DERIVED FROM LiDAR SURVEY FROM PATRIOT LiDAR DATED OCT 11, 2022.

LEGEND

CV24 - BOREHOLES FROM 2024 GORTECHNICAL INVESTIGATION

OBSERVATION WELL

SURFACE GEOLOGY LEGEND

- ORGANICS
- DRUMLINS
- STABILIZED AEOLIAN
- FLUVIOGLACIAL
- FLUVIOGLACIAL LANDFORM
- FLUVIOGLACIAL WITH ESKER
- DECAY MORAINE
- ROGEN MORAINE (RIBBED MORAINE)
- ABLATION TILL
- UNDIFFERENTIATED TILL
- ROCK
- BARE ROCK

0 200 400 600m

200 SCALE= 1:10,000

ATKINSRÉALIS DOC#: 702381-0000-4GDD01-0002

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B	CLIENT REVIEW / COMMENT	A.C.	B.M.	25/07/28
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PATRIOT BATTERY METALS

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Mining Services

CONCEPTEUR/DESIGN: A. COGULET	25-09-10
DESSINATEUR/DRAWN: M. SYKES	25-09-10
VÉRIFIÉ PAR/CHECKED: P. ADDIS	25-09-10
INGÉNIEUR/ENGINEER: B. MORRISSETTE	25-09-10
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PROJET/PROJECT:
SHAAKICHIUWAANAAN

PHASE:
ÉTUDE DE FAISABILITÉ
FEASIBILITY STUDY

TITRE:
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WATER MANAGEMENT
SITE GEOLOGY
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PAPER SIZE FORMAT : A1

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E 570,000
E 572,000
E 574,000
N 5,934,000
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EXISTING ACCESS ROAD
FRESH WATER INTAKE FOR POTABLE PRODUCTION LAKE 308
FW-P
COLLECTION DITCH 02-02 (LINED)
COLLECTION POND 02 (LINED)
P2-P
PROPOSED SPILLWAY LOCATION (TYP.)
P1-P
COLLECTION DITCH 01-01
COLLECTION POND 01
COLLECTION DITCH 02-01 (LINED)
PAG WASTE ROCK
STOCKPILE 002
DMS TAILINGS
STOCKPILE01
COLLECTION DITCH 03-01 (LINED)
CAMP
COLLECTION DITCH 03-02 (LINED)
COLLECTION DITCH 01-02
P3-P
COLLECTION POND 03 (LINED)
ORGANICS PILE 01
COLLECTION DITCH 01A-01
PROCESS PLANT
SWT-P
CP1-P
COLLECTION DITCH 01A-02
CONTACT WATER POND 1
COLLECTION POND 01A
TSS WATER TREATMENT PLANT (CONTINGENCY)
ORGANICS PILE 02
P1A-P
DIVERSION CHANNEL
TRACE METAL WATER TREATMENT PLANT
SEDIMENTATION PONDS
CONTACT WATER POND 2
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POLISHING POND
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CONNECTION CHANNEL
DIFFUSER
DISCHARGE TO ENVIRONMENT
EAST PIT
EAST PIT DAMS
BLASTING RADIUS 500m
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AtkinsRéalis

Mining Services

CONCEPTEUR/DESIGN: A. COGULET	25-09-10
DESSINATEUR/DRAWN: M. SYKES	25-09-10
VÉRIFIÉ PAR/CHECKED: P. ADDIS	25-09-10
INGÉNIEUR/ENGINEER: B. MORRISSETTE	25-09-10
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SHAAKICHIUWAANAAN

PHASE:
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TITLE
WATER MANAGEMENT
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