



**APPENDIX E VEGETATION AND SOIL BASE
METALS MONITORING SITES,
2012 TO 2025**



Appendix Table E-1. Vegetation and soil base metals monitoring sites, 2012 to 2025.

Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
MP-01	Near	2014	L-56	1	1	1		0.00	DF-P-04	14.25	71.8709	-80.8824
		2020	MP-01_2020	1	1			0.00	DF-P-04	37.40	71.8710	-80.8817
		2021	MP-L-56	1	1			0.00	DF-P-04	14.27	71.8710	-80.8820
		2022	MP-01_2022	1	1			0.00	DF-P-04	22.70	71.87117	-80.8824
		2025	MP-01_2025	1	1			0.00	DF-P-04	27.35	71.87102	-80.8819
MP-02	Near	2016	L-101	1	1			50.93	DF-P-04	594.69	71.8761	-80.8778
		2019	L-118	1	1			50.12	DF-P-04	573.38	71.8759	-80.8778
		2020	MP-02_2020	1	1			49.39	DF-P-04	572.11	71.8759	-80.8778
		2021	MP-L-118	1	1			45.86	DF-P-04	571.27	71.8759	-80.8778
		2022	MP-02_2022	1	1			53.12	DF-P-04	580.25	71.8760	-80.8777
		2025	MP-02_2025	1	1			49.03	DF-P-04	579.76	71.8759	-80.8778
MP-03	Near	2016	L-100	1	1			36.01	DF-P-04	654.69	71.8767	-80.8783
		2019	L-119	1	1			39.89	DF-P-04	666.35	71.8768	-80.8782
		2020	MP-03_2020	1	1			35.72	DF-P-04	665.37	71.8768	-80.8783
		2021	MP-L-119	1	1			35.97	DF-P-04	666.25	71.8767	-80.8782
		2022	MP-03_2022	1	1			34.87	DF-P-04	659.22	71.8768	-80.8784
		2025	MP-03_2025	1	1			35.11	DF-P-04	656.38	71.8767	-80.8783
MP-04	Near	2016	L-97	1	1			63.31	DF-P-04	833.29	71.8783	-80.8777
		2019	L-121	1	1			57.18	DF-P-06	817.54	71.8785	-80.8779
		2020	MP-04_2020	1	1			66.90	DF-P-06	837.00	71.8783	-80.8776
		2021	MP-L-121	1	1			60.27	DF-P-06	843.31	71.8783	-80.8777
		2022	MP-04_2022	1	1			62.75	DF-P-06	833.80	71.8784	-80.8777
		2025	MP-04_2025	1	1			54.14	DF-P-06	834.73	71.8783	-80.8779
MP-05	Near	2016	L-96	1	1			45.74	DF-P-06	750.13	71.8791	-80.8783
		2019	L-122	1	1			46.14	DF-P-06	738.98	71.8792	-80.8783



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		2020	MP-05_2020	1	1			46.84	DF-P-06	739.01	71.8792	-80.8783
		2021	MP-L-122	1	1			44.46	DF-P-06	741.51	71.8791	-80.8782
		2022	MP-05_2022	1	1			34.36	DF-P-06	747.01	71.8791	-80.8786
		2025	MP-05_2025	1	1			48.26	DF-P-06	737.08	71.8792	-80.8782
MP-06	Near	2016	L-94	1	1			25.28	DF-P-06	549.02	71.8809	-80.8791
		2019	L-144	1	1			35.28	DF-P-06	560.19	71.8808	-80.8788
		2020	MP-06_2020	1	1			33.83	DF-P-06	552.37	71.8809	-80.8789
		2021	MP-L-144	1	1			34.85	DF-P-06	561.25	71.8808	-80.8789
		2022	MP-06_2022	1	1			30.38	DF-P-06	563.32	71.8808	-80.8790
		2025	MP-06_2025	1	1			29.68	DF-P-06	553.05	71.8808	-80.8789
MP-07	Near	2016	L-91	1	1			66.59	DF-P-06	438.74	71.8819	-80.8780
		2019	L-145	1	1			44.35	DF-P-06	426.50	71.8820	-80.8786
		2020	MP-07_2020	1	1			43.67	DF-P-06	426.48	71.8820	-80.8786
		2021	MP-L-145	1	1			44.47	DF-P-06	426.58	71.8819	-80.8784
		2022	MP-07_2022	1	1			53.18	DF-P-06	430.09	71.8820	-80.8784
		2025	MP-07_2025	1	1			41.52	DF-P-06	428.12	71.8819	-80.8787
MP-08	Near	2014	L-57	1		1		0.00	DF-P-06	6.37	71.8858	-80.8790
		2020	MP-08_2020	1	1			0.00	DF-P-06	12.14	71.8859	-80.8790
		2021	MP-57-2021	1	1			0.00	DF-P-06	6.94	71.8858	-80.8790
		2022	MP-08_2022	1	1			0.00	DF-P-06	32.54	71.8859	-80.8799
		2025	MP-08_2025	1	1			0.00	DF-P-06	10.88	71.8858	-80.8792
MP-09	Near	2019	L-147	1	1			104.15	DF-P-06	247.90	71.8838	-80.8760
		2020	MP-09_2020	1	1			119.47	DF-P-06	250.19	71.8838	-80.8755
		2021	MP-L-147	1	1			104.37	DF-P-06	249.44	71.8834	-80.8766
		2022	MP-09_2022	1	1			90.17	DF-P-06	285.97	71.8834	-80.8766



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2025	MP-09_2025	1	1			99.57	DF-P-06	261.72	71.8836	-80.8762
MP-10	Near	2019	L-146	1	1			82.92	DF-P-06	322.07	71.8830	-80.8770
		2020	MP-10_2020	1	1			71.19	DF-P-06	303.79	71.8832	-80.8773
		2021	MP-L-146	1	1			82.41	DF-P-06	322.52	71.8830	-80.8771
		2022	MP-10_2022	1	1			75.57	DF-P-06	317.00	71.8830	-80.8772
		2025	MP-10_2025	1	1			83.42	DF-P-06	320.53	71.8830	-80.8769
MP-11	Far	2016	L-93	1	1			171.14	DF-P-06	469.25	71.8818	-80.8750
		2020	MP-11_2020	1	1			171.37	DF-P-06	472.55	71.8818	-80.8750
		2022	MP-11_2022	1	1			168.32	DF-P-06	465.27	71.8818	-80.8751
		2025	MP-11_2025	1	1			169.76	DF-P-06	483.46	71.8816	-80.8750
MP-12	Far	2016	L-102	1	1			424.04	DF-P-04	758.30	71.8757	-80.8670
		2020	MP-12_2020	1	1			425.51	DF-P-04	760.84	71.8757	-80.8670
		2022	MP-12_2022	1	1			420.68	DF-P-04	759.81	71.8758	-80.8671
		2025	MP-12_2025	1	1			430.98	DF-P-04	770.19	71.8758	-80.8668
MP-13	Far	2019	L-142	1	1			841.35	DF-P-04	1034.94	71.8742	-80.8548
		2020	MP-13_2020	1	1			839.30	DF-P-04	1033.37	71.8742	-80.8549
		2022	MP-13_2022	1	1			835.61	DF-P-04	1030.42	71.8742	-80.8550
		2025	MP-13_2025	1	1			834.63	DF-P-04	1031.20	71.8742	-80.8550
MP-14	Far	2019	L-136	1	1			755.54	DF-P-04	1003.25	71.8753	-80.8574
		2020	MP-14_2020	1	1			755.34	DF-P-04	1000.59	71.8752	-80.8574
		2022	MP-14_2022	1	1			772.05	DF-P-04	1009.34	71.8751	-80.8569
		2025	MP-14_2025	1	1			772.70	DF-P-04	1007.43	71.8750	-80.8568
MP-15	Far	2016	L-103	1	1			649.33	DF-P-04	984.57	71.8765	-80.8606
		2020	MP-15_2020	1	1			647.47	DF-P-04	981.13	71.8765	-80.8607
		2022	MP-15_2022	1	1			645.56	DF-P-04	978.94	71.8765	-80.8607



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2025	MP-15_2025	1	1			647.83	DF-P-04	982.18	71.8764	-80.8606
MP-16	Reference	2013	L-02	1	1	1		3269.31	DF-P-03	0.84	71.8996	-80.7884
		2019	L-135	1	1			3266.82	DF-P-03	25.58	71.8994	-80.7882
		2020	MP-16_2020	1	1			3268.13	DF-P-03	18.93	71.8995	-80.7882
		2022	MP-16_2022	1	1			3255.69	DF-P-03	13.02	71.8996	-80.7887
		2025	MP-16_2025	1	1			3258.08	DF-P-03	10.74	71.8996	-80.7886
MP-17	Reference	2019	L-141	1	1			2168.16	DF-P-03	1744.01	71.8865	-80.8157
		2020	MP-17_2020	1	1			2164.88	DF-P-03	1742.16	71.8865	-80.8158
		2022	MP-17_2022	1	1			2176.20	DF-P-03	1738.95	71.8865	-80.8155
		2025	MP-17_2025	1	1			2164.97	DF-P-03	1742.32	71.8865	-80.8158
MP-18	Reference	2016	L-105	1	1			1824.06	DF-P-04	2055.62	71.8770	-80.8268
		2020	MP-18_2020	1	1			1822.94	DF-P-04	2053.91	71.8770	-80.8268
		2022	MP-18_2022	1	1			1821.81	DF-P-04	2053.03	71.8770	-80.8269
		2025	MP-18_2025	1	1			1833.59	DF-P-04	2060.92	71.8768	-80.8265
MP-19	Near	2016	L-92	1	1			44.65	DF-P-06	493.40	71.8814	-80.8786
		2019	L-143	1	1			34.25	DF-P-06	493.24	71.8814	-80.8789
MP-20	Near	2016	L-98	1	1			40.07	DF-P-04	763.50	71.8777	-80.8783
		2019	L-120	1	1			19.25	DF-P-04	759.54	71.8777	-80.8789
MP-21	Near	2013	L-01	1	1			0.00	DF-P-05	139.00	71.8850	-80.8912
MP-22	Reference	2019	L-140	1	1			2303.95	DF-P-03	1842.41	71.8848	-80.8118
MP-23	Near	2014	L-58	1	1			0.00	DF-P-07	324.09	71.8838	-80.9159
MP-24	Near	2016	L-95	1	1			28.98	DF-P-06	638.24	71.8801	-80.8789
MP-25	Near	2016	L-99	1	1			17.22	DF-P-04	704.72	71.8772	-80.8789
MP-26	Far	2019	L-137	1	1			726.06	DF-P-04	1051.98	71.8766	-80.8584
MP-27	Near	2013	L-03	1	1		1	0.00	DF-P-04	103.98	71.8702	-80.8844



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
MP-28	Reference	2019	L-139	1	1			3157.83	DF-P-03	127.06	71.8988	-80.7909
MP-29	Far	2016	L-104	1	1			805.58	DF-P-04	1024.99	71.8748	-80.8559
		2022	MP-29_2022	1	1			802.57	DF-P-04	1020.07	71.8748	-80.8560
		2025	MP-29_2025	1	1			806.47	DF-P-04	1026.38	71.8748	-80.8558
MP-30	Reference	2016	L-106	1	1			3217.83	DF-P-03	70.63	71.8999	-80.7902
		2022	MP-30_2022	1	1			3218.62	DF-P-03	68.22	71.8999	-80.7902
		2025	MP-30_2025	1	1			3219.10	DF-P-03	68.33	71.8998	-80.7901
MS-01	Near	2020	MS-01_2020	1	1			0.00	DF-M-01	42.23	71.3243	-79.3759
		2022	MS-01_2022	1	1			0.00	DF-M-01	22.74	71.3242	-79.3753
		2025	MS-01_2025	1	1			0.00	DF-M-01	27.10	71.3243	-79.3754
MS-02	Near	2019	L-128	1	1			30.95	DF-M-01	709.06	71.3202	-79.3595
		2020	MS-02_2020	1	1			38.52	DF-M-01	710.67	71.3201	-79.3596
		2022	MS-02_2022	1	1			34.58	DF-M-01	712.49	71.3202	-79.3595
		2025	MS-02_2025	1	1			40.05	DF-M-01	710.51	71.3201	-79.3596
MS-03	Near	2016	L-83	1	1			92.95	DF-M-07	1142.60	71.3101	-79.2012
		2019	L-154	1	1			87.41	DF-M-07	1144.64	71.3101	-79.2015
		2020	MS-03_2020	1	1			90.23	DF-M-07	1142.10	71.3101	-79.2014
		2022	MS-03_2022	1	1			96.00	DF-M-07	1137.31	71.3101	-79.2013
		2025	MS-03_2025	1	1			90.87	DF-M-07	1139.30	71.3100	-79.2016
MS-04	Near	2016	L-85	1	1			63.14	DF-M-03	1189.10	71.3102	-79.2114
		2019	L-155	1	1			74.36	DF-M-03	1192.90	71.3101	-79.2112
		2020	MS-04_2020	1	1			71.50	DF-M-03	1198.63	71.3101	-79.2111
		2022	MS-04_2022	1	1			72.66	DF-M-03	1192.02	71.3101	-79.2112
		2025	MS-04_2025	1	1			73.16	DF-M-03	1189.01	71.3101	-79.2113
MS-05	Near	2016	L-86	1	1			46.83	DF-M-03	817.49	71.3094	-79.2215



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		2019	L-156	1	1			55.68	DF-M-03	803.94	71.3093	-79.2218
		2020	MS-05_2020	1	1			59.59	DF-M-03	806.40	71.3093	-79.2217
		2022	MS-05_2022	1	1			38.21	DF-M-03	814.50	71.3095	-79.2217
		2025	MS-05_2025	1	1			56.02	DF-M-03	805.66	71.3093	-79.2217
MS-06	Near	2016	L-88	1	1			53.84	DF-M-03	313.01	71.3075	-79.2346
		2019	L-157	1	1			53.23	DF-M-03	335.66	71.3076	-79.2340
		2020	MS-06_2020	1	1			53.58	DF-M-03	336.72	71.3076	-79.2340
		2022	MS-06_2022	1	1			42.21	DF-M-03	329.33	71.3077	-79.2342
		2025	MS-06_2025	1	1			61.22	DF-M-03	327.06	71.3075	-79.2342
MS-07	Near	2019	L-153	1	1			18.73	DF-M-02	1103.30	71.3004	-79.2729
		2020	MS-07_2020	1	1			26.40	DF-M-02	1109.90	71.3003	-79.2729
		2022	MS-07_2022	1	1			29.23	DF-M-02	1108.08	71.3003	-79.2731
		2025	MS-07_2025	1	1			33.07	DF-M-02	1107.30	71.3002	-79.2732
MS-08	Near	2016	L-82	1	1			69.06	DF-M-03	1214.29	71.2997	-79.2679
		2019	L-131	1	1			71.21	DF-M-03	1224.70	71.2997	-79.2683
		2020	MS-08_2020	1	1			66.38	DF-M-03	1219.61	71.2997	-79.2682
		2022	MS-08_2022	1	1			68.28	DF-M-03	1218.12	71.2997	-79.2681
		2025	MS-08_2025	1	1			67.28	DF-M-03	1218.32	71.2997	-79.2681
MS-09	Near	2019	L-130	1	1			33.83	DF-M-03	1094.74	71.2998	-79.2634
		2020	MS-09_2020	1	1			27.76	DF-M-03	1092.06	71.2999	-79.2635
		2022	MS-09_2022	1	1			29.11	DF-M-03	1089.82	71.2999	-79.2633
		2025	MS-09_2025	1	1			31.70	DF-M-03	1093.22	71.2998	-79.2634
MS-10	Near	2019	L-132	1	1			1.56	DF-M-03	1033.91	71.3000	-79.2615
		2020	MS-10_2020	1	1			0.00	DF-M-03	1027.77	71.3000	-79.2614
		2022	MS-10_2022	1	1			0.00	DF-M-03	1029.86	71.3000	-79.2615



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blueberry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2025	MS-10_2025	1	1			0.00	DF-M_03	1027.36	71.3000	-79.2614
MS-11	Far	2019	L-134	1	1			238.26	DF-M-01	867.31	71.3181	-79.3600
		2020	MS-11_2020	1	1			242.25	DF-M-01	866.72	71.3181	-79.3601
		2022	MS-11_2022	1	1			242.85	DF-M-01	867.54	71.3181	-79.3601
		2025	MS-11_2025	1	1			242.62	DF-M-01	868.19	71.3180	-79.3601
MS-12	Far	2020	MS-12_2020	1	1			335.08	DF-M-01	669.35	71.3187	-79.3679
		2022	MS-12_2022	1	1			335.81	DF-M-01	673.38	71.3187	-79.3679
		2025	MS-12_2025	1	1			334.81	DF-M-01	674.74	71.3186	-79.3678
MS-13	Far	2019	L-159	1	1			367.31	DF-M-07	1150.49	71.3103	-79.1922
		2020	MS-13_2020	1	1			365.40	DF-M-07	1149.14	71.3103	-79.1923
		2022	MS-13_2022	1	1			373.51	DF-M-07	1132.40	71.3101	-79.1922
		2025	MS-13_2025	1	1			372.63	DF-M-07	1126.55	71.3100	-79.1923
MS-14	Far	2016	L-115	1	1			451.95	DF-M-07	1186.34	71.3105	-79.1894
		2020	MS-14_2020	1	1			451.78	DF-M-07	1188.66	71.3105	-79.1894
		2022	MS-14_2022	1	1			442.11	DF-M-07	1211.25	71.3107	-79.1894
		2025	MS-14_2025	1	1			443.33	DF-M-07	1206.90	71.3107	-79.1894
MS-15	Far	2020	MS-15_2020	1	1			162.69	DF-M-03	479.82	71.3070	-79.2299
		2022	MS-15_2022	1	1			162.20	DF-M-03	480.27	71.3070	-79.2299
		2025	MS-15_2025	1	1			161.43	DF-M-03	479.85	71.3070	-79.2299
MS-16	Far	2020	MS-16_2021	1	1			353.30	DF-M-02	1302.34	71.2976	-79.2774
		2022	MS-16_2022	1	1			354.46	DF-M-02	1302.19	71.2976	-79.2775
		2025	MS-16_2025	1	1			355.22	DF-M-02	1304.31	71.2976	-79.2777
MS-17	Far	2020	MS-17_2021	1	1			655.56	DF-M-07	755.76	71.3043	-79.2116
		2022	MS-17_2022	1	1			656.58	DF-M-07	755.44	71.3043	-79.2116
		2025	MS-17_2025	1	1			658.41	DF-M-07	753.77	71.3043	-79.2116



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
MS-18	Far	2020	MS-18_2020	1	1			781.12	DF-M-02	1501.15	71.2951	-79.2891
		2022	MS-18_2022	1	1			781.68	DF-M-02	1500.66	71.2951	-79.2892
		2025	MS-18_2025	1	1			776.76	DF-M-02	1497.01	71.2951	-79.2890
MS-19	Far	2020	MS-19_2020	1	1			537.87	DF-M-02	1302.74	71.2969	-79.2854
		2022	MS-19_2022	1	1			537.98	DF-M-02	1303.48	71.2969	-79.2854
		2025	MS-19_2025	1	1			534.69	DF-M-02	1301.84	71.2969	-79.2852
MS-20	Far	2019	L-129	1	1			744.82	DF-M-01	1043.56	71.3150	-79.3712
		2020	MS-20_2020	1	1			740.84	DF-M-01	1040.50	71.3150	-79.3711
		2022	MS-20_2022	1	1			744.84	DF-M-01	1043.69	71.3150	-79.3713
		2025	MS-20_2025	1	1			743.16	DF-M-01	1043.67	71.3150	-79.3711
MS-21	Far	2020	MS-21_2020	1	1			947.46	DF-M-01	1173.86	71.3138	-79.3757
		2022	MS-21_2022	1	1			945.19	DF-M-01	1174.46	71.3138	-79.3756
		2025	MS-21_2025	1	1			947.40	DF-M-01	1171.74	71.3138	-79.3758
MS-22	Reference	2013	L-29	1	1	1		9228.31	DF-M-04	0.84	71.2197	-79.3277
		2019	L-165	1	1			9227.39	DF-M-04	3.28	71.2197	-79.3276
		2020	MS-22_2020	1	1			9233.41	DF-M-04	12.88	71.2196	-79.3274
		2022	MS-22_2022	1	1			9233.14	DF-M-04	4.08	71.2197	-79.3277
		2025	MS-25_2025	1	1			9232.97	DF-M-04	3.49	71.2196	-79.3276
MS-23	Reference	2019	L-138	1	1			4139.17	DF-M-08	303.03	71.2968	-79.0955
		2020	MS-23_2020	1	1			4143.27	DF-M-08	299.61	71.2968	-79.0954
		2022	MS-23_2022	1	1			4144.40	DF-M-08	298.96	71.2968	-79.0954
		2025	MS-23_2025	1	1			4141.78	DF-M-08	298.65	71.2967	-79.0954
MS-24	Reference	2019	L-166	1	1			10254.11	DF-M-05	1403.66	71.3843	-78.9051
		2020	MS-24_2020	1	1			10235.26	DF-M-05	1393.70	71.3843	-78.9057
		2022	MS-24_2022	1	1			10234.70	DF-M-05	1392.60	71.3843	-78.9057



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2025	MS-24_2025	1	1			10243.05	DF-M-05	1398.22	71.3843	-79.9054
MS-25	Reference	2014	L-65	1	1	1		1230.76	DF-M-07	2.38	71.3000	-79.1953
		2019	L-170	1	1			1221.17	DF-M-07	7.48	71.3001	-79.1953
		2020	MS-25_2020	1	1			1219.94	DF-M-07	22.60	71.3001	-79.1959
		2022	MS-25_2022	1	1			1218.44	DF-M-07	20.96	71.3001	-79.1959
		2025	MS-25_2025	1	1			1221.59	DF-M-07	24.64	71.3000	-79.1959
MS-26	Reference	2014	L-64	1	1			1186.92	DF-M-06	4.26	71.3196	-79.1559
		2016	L-113	1	1			1182.06	DF-M-06	5.49	71.3196	-79.1560
		2019	L-174	1	1			1215.24	DF-M-06	36.63	71.3196	-79.1550
MS-27	Reference	2014	L-66	1	1	1	4092.75	DF-M-08	2.87	71.2945	-79.1001	
MS-28	Reference	2012	L-20	1	1		32532.26	DF-RS-08	28077.06	71.6457	-79.2153	
MS-29	Reference	2012	L-28	1	1		39601.07	DF-M-05	30884.62	71.5403	-78.2296	
MS-30	Reference	2016	L-111	1	1		10383.88	DF-M-05	1600.41	71.3860	-78.9034	
MS-31	Reference	2012	L-27	1	-		2447.89	DF-M-06	7062.32	71.3758	-79.2471	
MS-32	Reference	2012	L-26	1	1		2880.93	DF-M-06	3122.46	71.3391	-79.0935	
MS-33	Far	2012	L-24	1	1		128.79	DF-M-01	979.85	71.3331	-79.3766	
MS-34	Near	2019	L-133	1	1		18.65	DF-M-01	357.19	71.3220	-79.3677	
MS-35	Far	2016	L-90	1	1		403.25	DF-M-01	707.93	71.3182	-79.3691	
MS-36	Near	2016	L-84	1	1		83.75	DF-M-07	1168.22	71.3101	-79.2043	
MS-37	Near	2016	L-87	1	1		62.94	DF-M-03	636.98	71.3089	-79.2263	
MS-38	Near	2013	L-25	1	1	1	0.00	DF-M-03	2.44	71.3072	-79.2433	
MS-39	Near	2019	L-158	1	1		92.01	DF-M-03	252.95	71.3060	-79.2373	
MS-40	Near	2016	L-89	1	1		90.01	DF-M-03	339.23	71.3047	-79.2379	
MS-41	Near	2016	L-117	1	1		46.20	DF-M-03	1150.47	71.2998	-79.2657	
MS-42	Reference	2016	L-110	1	1		3869.16	DF-M-08	402.83	71.2981	-79.1020	



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blueberry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
MS-43	Reference	2014	L-67	1	1	1	1	3346.77	DF-M-09	5.01	71.2936	-79.4128
MS-44	Reference	2016	L-109	1	1			9105.87	DF-M-04	124.22	71.2208	-79.3274
MS-45	Reference	2016	L-112	1	1			1044.33	DF-M-06	141.07	71.3202	-79.1594
MS-46	Far	2016	L-114	1	1			391.40	DF-M-07	1095.36	71.3098	-79.1921
MS-47	Far	2019	L-160	1	1			417.07	DF-M-07	1250.49	71.3111	-79.1897
MS-48	Near	2013	L-23	1	1		1	0.00	DF-M-01	4.33	71.3243	-79.3747
MS-49	Near	2016	L-81	1	1			56.11	DF-M-02	1115.09	71.3001	-79.2737
TR-01	Near	2019	L-152	1	1			17.83	DF-RS-03	1549.83	71.3913	-79.7827
		2020	TR-01_2020	1	1			20.28	DF-RS-03	1554.86	71.3913	-79.7826
		2021	TR_152_2021	1	1			19.87	DF-RS-03	1549.02	71.3912	-79.7826
		2022	TR-01_2022	1	1			21.56	DF-RS-03	1552.08	71.3913	-79.7826
		2025	TR-01_2025	1	1			25.14	DF-RS-03	1548.22	71.3913	-79.7826
TR-02	Near	2020	TR-02_2020	1	1			92.93	DF-RS-03	1015.34	71.3920	-79.7984
		2022	TR-02_2022	1	1			94.19	DF-RS-03	995.65	71.3921	-79.7989
		2025	TR-02_2025	1	1			97.79	DF-RS-03	1004.53	71.3920	-79.7987
TR-03	Near	2013	L-16	1	1	1		0.00	DF-RS-06	1.46	71.3986	-79.8234
		2019	L-151	1	1			0.00	DF-RS-06	3.56	71.3986	-79.8235
		2020	TR-03_2020	1	1			0.00	DF-RS-06	1.07	71.3986	-79.8234
		2022	TR-03_2022	1	1			0.00	DF-RS-06	3.03	71.3986	-79.8235
		2025	TR-03_2025	1	1			0.00	DF-RS-06	4.95	71.3985	-79.8234
TR-04	Near	2016	L-79	1	1			0.00	DF-RS-03	1554.84	71.3891	-79.7862
		2020	TR-04_2020	1	1			0.00	DF-RS-03	1530.50	71.3893	-79.7867
		2021	TR-79-2021	1	1			0.00	DF-RS-03	0.00	71.3891	-79.7864
TR-05	Near	2013	L-15	1	1		1	67.05	DF-RS-03	0.53	71.3967	-79.8228
		2019	L-124	1	1			66.03	DF-RS-03	7.12	71.3967	-79.8230



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blueberry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2020	TR-05_2020	1	1			83.57	DF-RS-03	31.38	71.3965	-79.8234
		2022	TR-05_2022	1	1			75.39	DF-RS-03	14.95	71.3966	-79.8231
		2025	TR-05_2025	1	1			71.67	DF-RS-03	11.61	71.3966	-79.8230
TR-06	Near	2019	L-125	1	1			75.11	DF-RS-03	207.05	71.3962	-79.8284
		2020	TR-06_2020	1	1			79.38	DF-RS-03	216.10	71.3961	-79.8286
TR-07	Near	2019	L-149	1	1			36.10	DF-RS-03	786.23	71.3958	-79.8447
		2020	TR-07_2020	1	1			38.12	DF-RS-03	789.90	71.3958	-79.8448
		2022	TR-07_2022	1	1			42.39	DF-RS-03	762.40	71.3961	-79.8441
		2025	TR-07_2025	1	1			40.80	DF-RS-03	746.81	71.3962	-79.8437
TR-08	Near	2019	L-172	1	1			19.48	DF-RN-05	11.16	71.7186	-80.4414
		2020	TR-08_2020	1	1			25.63	DF-RN-05	34.50	71.7188	-80.4416
		2022	TR-08_2022	1	1			14.70	DF-RN-05	20.29	71.7187	-80.4417
		2025	TR-08_2025	1	1			25.94	DF-RN-05	26.70	71.7187	-80.4415
TR-09	Near	2013	L-07	1	1			86.51	DF-RN-06	1.15	71.7189	-80.4397
		2020	TR-09_2020	1	1			90.05	DF-RN-06	3.50	71.7189	-80.4397
		2022	TR-09_2022	1	1			93.13	DF-RN-06	10.22	71.7190	-80.4397
		2025	TR-09_2025	1	1			93.67	DF-RN-06	8.62	71.7189	-80.4396
TR-10	Near	2013	L-06	1	1	1		73.72	DF-RN-03	3.79	71.7186	-80.4473
		2020	TR-10_2020	1	1			70.77	DF-RN-03	1.79	71.7186	-80.4473
TR-11	Far	2019	L-123	1	1			246.74	DF-RS-03	205.76	71.3954	-79.8187
		2020	TR-11_2020	1	1			245.67	DF-RS-03	204.98	71.3954	-79.8187
		2022	TR-11_2022	1	1			256.42	DF-RS-03	199.98	71.3952	-79.8197
		2025	TR-11_2025	1	1			261.03	DF-RS-03	204.72	71.3951	-79.8196
TR-12	Far	2016	L-116	1	1			449.12	DF-RS-02	2032.15	71.3833	-79.8862
		2020	TR-12_2020	1	1			446.80	DF-RS-02	2032.08	71.3833	-79.8862



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2022	TR-12_2022	1	1			450.62	DF-RS-02	2031.80	71.3833	-79.8862
		2025	TR-12_2025	1	1			416.87	DF-RS-02	2030.59	71.3835	-79.8864
TR-13	Far	2013	L-17	1	1	1		954.74	DF-RS-07	1.28	71.4077	-79.8182
		2016	L-77	1	1			976.34	DF-RS-07	28.53	71.4079	-79.8187
		2019	L-162	1	1			943.12	DF-RS-07	11.15	71.4076	-79.8182
		2020	TR-13_2020	1	1			945.14	DF-RS-07	16.80	71.4076	-79.8186
		2022	TR-13_2022	1	1			954.80	DF-RS-07	5.45	71.4077	-79.8184
		2025	TR-13_2025	1	1			947.83	DF-RS-07	6.74	71.4076	-79.8182
TR-14	Far	2013	L-14	1	1			627.65	DF-RS-02	4.26	71.3893	-79.8324
		2016	L-76	1	1			599.30	DF-RS-02	27.96	71.3896	-79.8326
		2019	L-161	1	1			611.19	DF-RS-02	14.93	71.3894	-79.8328
		2020	TR-14_2020	1	1			600.00	DF-RS-02	25.11	71.3896	-79.8327
		2022	TR-14_2022	1	1			606.22	DF-RS-02	17.95	71.3895	-79.8327
		2025	TR-14_2025	1	1			601.77	DF-RS-02	25.24	71.3894	-79.8330
TR-15	Reference	2013	L-12	1	1	1	1	13986.35	DF-RR-01	2.77	71.2805	-80.2450
		2019	L-169	1	1			13978.40	DF-RR-01	14.09	71.2806	-80.2451
		2020	TR-15_2020	1	1			13975.85	DF-RR-01	17.45	71.2806	-80.2451
		2022	TR-15_2022	1	1			13984.48	DF-RR-01	6.47	71.2805	-80.2449
		2025	TR-15_2025	1	1				DF-RR-01		71.2801	-80.2448
TR-16	Reference	2013	L-22	1	-	1		6022.58	DF-RS-01	1.78	71.3275	-79.8001
		2019	L-168	1	1			6032.35	DF-RS-01	20.36	71.3275	-79.8007
		2020	TR-16_2020	1	1			6002.17	DF-RS-01	35.52	71.3278	-79.8006
		2022	TR-16_2022	1	1			6012.06	DF-RS-01	26.08	71.3277	-79.8006
		2025	TR-16_2025	1	1				DF-RS-01		71.3274	-79.8002
TR-17	Reference	2013	L-19	1	-	1		6672.12	DF-RS-08	1.33	71.4489	-79.7106



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
		2019	L-167	1	1			6663.09	DF-RS-08	19.48	71.4489	-79.7112
		2020	TR-17_2020	1	1			6648.29	DF-RS-08	38.95	71.4486	-79.7103
		2022	TR-17_2022	1	1			6675.56	DF-RS-08	4.26	71.4489	-79.7105
		2025	TR-17_2025	1	1				DF-RS-08		71.4488	-79.7108
TR-18	Reference	2014	L-63	1	1	1	10692.18	DF-P-03	11616.77	71.8805	-80.4592	
TR-19	Reference	2014	L-59	1	1	1	13242.00	DF-RN-08	7368.60	71.7752	-80.1047	
TR-20	Reference	2013	L-09	1	1	1	5925.58	DF-RN-08	1.78	71.7435	-80.2898	
		2022	TR-20_2022	1	1		5919.91	DF-RN-08	4.62	71.7435	-80.2899	
		2025	TR-20_2025	1	1			DF-RN-08		71.7435	-80.2898	
TR-21	Far	2013	L-08	1	1	1	979.87	DF-RN-07	0.84	71.7226	-80.4165	
		2022	TR217_2022	1	1		980.53	DF-RN-07	5.79	71.7226	-80.4164	
		2025	TR-21_2025	1	1			DF-RN-07		71.7225	-80.4164	
TR-22	Near	2019	L-173	1	1		13.98	DF-RN-04	48.43	71.7192	-80.4466	
TR-23	Far	2016	L-75	1	1		282.93	DF-RS-03	215.51	71.3948	-79.8217	
TR-24	Near	2016	L-72	1	1		63.07	DF-RS-03	712.12	71.3967	-79.8428	
TR-25	Far	2013	L-05	1	1	1	998.63	DF-RN-02	0.84	71.7145	-80.4704	
TR-26	Reference	2013	L-04	1	1	1	4544.76	DF-RN-01	1.48	71.6882	-80.5363	
TR-27	Reference	2012	L-11	1	1		3019.46	DF-TR-56E	5924.75	71.5628	-80.2148	
TR-28	Reference	2013	L-10	1	-	1	14000.46	DF-RR-02	2.30	71.5189	-80.6923	
TR-29	Reference	2016	L-108	1	1		6899.43	DF-RS-08	293.17	71.4515	-79.7117	
TR-30	Reference	2012	L-18	1	1		1494.38	DF-RS-07	820.09	71.4113	-79.7981	
TR-31	Reference	2019	L-164	1	1		6723.69	DF-RS-08	50.97	71.4493	-79.7100	
TR-32	Far	2019	L-163	1	1		587.64	DF-RS-06	1034.30	71.4004	-79.8519	
TR-33	Near	2016	L-73	1	1		79.93	DF-RS-06	324.75	71.3984	-79.8325	
TR-34	Near	2019	L-171	1	1		0.00	DF-RS-05	13.24	71.3981	-79.8230	



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Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
TR-35	Near	2019	L-150	1	1			2.79	DF-RS-06	240.90	71.3980	-79.8299
TR-36	Near	2019	L-126	1	1			10.97	DF-RS-04	163.68	71.3978	-79.8177
TR-37	Near	2019	L-127	1	1			0.00	DF-RS-04	15.44	71.3974	-79.8225
TR-38	Near	2016	L-74	1	1			122.81	DF-RS-03	55.88	71.3962	-79.8227
TR-39	Near	2016	L-71	1	1			115.29	DF-RS-02	1011.26	71.3944	-79.8560
TR-40	Near	2019	L-148	1	1			53.92	DF-RS-02	910.20	71.3941	-79.8532
TR-41	Near	2016	L-70	1	1			151.45	DF-RS-02	1311.70	71.3933	-79.8671
TR-42	Near	2016	L-69	1	1			82.69	DF-RS-02	1191.70	71.3904	-79.8657
TR-43	Near	2016	L-80	1	1			135.29	DF-RS-03	1812.00	71.3904	-79.7759
TR-44	Near	2016	L-68	1	1			113.77	DF-RS-02	1577.96	71.3884	-79.8766
TR-45	Near	2014	L-60	1	1	1	1	22.33	DF-M-01	6617.87	71.3423	-79.5512
TR-46	Reference	2012	L-13	1	1			8657.51	DF-RR-01	6532.74	71.3387	-80.2239
TR-47	Reference	2012	L-21	1	1			15563.78	DF-RS-01	11813.00	71.2216	-79.7948
TR-48	Far	2014	L-61	1	1	1	1	474.82	DF-M-01	5580.24	71.3383	-79.5246
TR-49	Reference	2016	L-107	1	1			6196.55	DF-RS-01	179.61	71.3259	-79.8008
TR-50	Near	2016	L-78	1	1			96.48	DF-RS-03	969.72	71.3922	-79.7995
SP ³ -01	Near	2012	L-52	1	1			114648.66	DF-M-04	106703.48	70.3044	-78.4834
SP-02	Reference	2012	L-53	1	1			116160.98	DF-M-04	108425.81	70.3025	-78.3506
SP-03	Reference	2012	L-54	1	1			122627.02	DF-M-04	114788.92	70.2413	-78.3607
SP-04	Reference	2012	L-51	1	1			108650.57	DF-M-04	100549.82	70.3491	-78.6165
SR ⁴ -01	Reference	2012	L-30	1	1			13826.31	DF-M-08	10252.60	71.2144	-78.9602
SR-02	Near	2012	L-31	1	1			17505.65	DF-M-08	13534.96	71.2128	-78.8212
SR-03	Reference	2012	L-32	1	1			32466.09	DF-M-05	24196.07	71.3204	-78.2655
SR-04	Reference	2012	L-33	1	1			23731.69	DF-M-04	14793.63	71.0875	-79.2946
SR-05	Reference	2012	L-34	1	1			36223.15	DF-M-08	32282.17	71.0966	-78.4455



Appendix Table E-1. Vegetation and soil base metals monitoring sites, 2012 to 2025.

Site ID	Distance Category	Year	Visit ID ¹	Soil	Lichen	Willow	Blue-berry	Distance to PDA (m)	Associated Dustfall Site ²	Distance to Dustfall Site (m)	Latitude	Longitude
SR-06	Near	2012	L-35	1	1			40222.23	DF-M-08	36202.87	71.0947	-78.3074
SR-07	Reference	2012	L-36	1	1			44424.52	DF-M-08	40362.82	71.0926	-78.1693
SR-08	Reference	2012	L-37	1	1			49880.53	DF-M-05	43090.31	71.1990	-77.8489
SR-09	Reference	2012	L-38	1	1			61126.19	DF-M-05	54910.40	71.1263	-77.5989
SR-10	Reference	2012	L-39	1	1			46027.24	DF-M-04	37303.99	70.8878	-79.2013
SR-11	Reference	2012	L-40	1	1			56697.25	DF-M-04	51289.90	70.8778	-78.3816
SR-12	Near	2012	L-41	1	1			59477.26	DF-M-04	54729.82	70.8763	-78.2491
SR-13	Reference	2012	L-42	1	1			62698.21	DF-M-04	58552.22	70.8734	-78.1139
SR-14	Reference	2012	L-43	1	1			85517.56	DF-M-08	81479.30	70.8591	-77.2928
SR-15	Reference	2012	L-44	1	1			66939.34	DF-M-04	58475.05	70.7046	-79.0278
SR-16	Reference	2012	L-45	1	1			75851.59	DF-M-04	69487.49	70.7024	-78.2643
SR-17	Far	2012	L-46	1	1			79833.16	DF-M-04	73738.24	70.6845	-78.1393
SR-18	Reference	2012	L-47	1	1			90414.17	DF-M-04	81810.38	70.4932	-79.0190
SR-19	Far	2012	L-48	1	1			97006.40	DF-M-04	89650.45	70.4844	-78.3384
SR-20	Reference	2012	L-49	1	1			98863.91	DF-M-04	91743.17	70.4813	-78.2233
SR-21	Reference	2012	L-50	1	1			114424.91	DF-M-04	109190.26	70.4673	-77.4203
SR-22	Reference	2012	L-55	1	1			128982.36	DF-M-04	122594.05	70.2890	-77.5545
SR-23	Near	2014	L-62	1	1	1	1	36343.66	DF-M-08	32283.33	71.1324	-78.3563

¹ Visit ID represents the specific position that the sample was taken for a particular sampling year. All Visit IDs have an associated Site ID.

² Dustfall collectors and metal sampling sites were considered ‘associated’ if Near sites (0 to 100 m of the Mine Site, Milne Port, or the Tote Road PDA) were within 0 to 12 m of a dustfall collector, if Far sites (100 to 1,000 m from the PDA) were within 13 to 60 m of a dustfall collector, and if Reference sites (≥1,000 m from the PDA) were within 60 to 150 m of a dustfall collector.

^{3,4} SB = Steensby Inlet Port. SR = South Rail.



**APPENDIX F VEGETATION AND SOIL BASE
METALS MONITORING, 2025
LABORATORY RETURNS**



CERTIFICATE OF ANALYSIS

Work Order	: WT2519848		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 17-Jul-2025 09:00
C-O-C number	: ----	Date Analysis Commenced	: 11-Aug-2025
Sampler	: BD/AL	Issue Date	: 28-Aug-2025 08:28
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu		Metals, Burlington, Ontario
Navdeep Buttar		Organics, Burlington, Ontario
Sabir Ahmed		Metals, Burlington, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	TR-01-L_2025 ----	TR-02-L_2025 ----	TR-03-L_2025 ----	TR-05-L_2025 ----	TR-07-L_2025 ----
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519848-001	WT2519848-002	WT2519848-003	WT2519848-004	WT2519848-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	58.0	58.5	49.6	68.2	70.1	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	5690	4720	3660	4990	4240	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	0.016	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.647	0.538	0.365	0.579	0.466	
Barium	7440-39-3	E464/BU	0.10	mg/kg	50.6	43.3	33.4	46.4	46.3	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.210	0.175	0.145	0.195	0.160	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.152	0.106	0.068	0.100	0.091	
Boron	7440-42-8	E464/BU	1.0	mg/kg	4.9	4.2	4.2	4.2	3.5	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.104	0.0691	0.0390	0.0642	0.132	
Calcium	7440-70-2	E464/BU	25	mg/kg	13700	15700	6540	15700	16200	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	12.7	12.4	7.65	8.35	6.50	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	2.62	2.22	1.68	2.04	1.64	
Copper	7440-50-8	E464/BU	0.10	mg/kg	8.34	6.38	4.24	6.19	4.58	
Iron	7439-89-6	E464/BU	2.5	mg/kg	13800	11600	8060	12000	9110	
Lead	7439-92-1	E464/BU	0.020	mg/kg	6.71	5.28	3.80	6.35	6.45	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	9.10	8.15	6.67	9.52	5.82	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	4590	4180	2820	3970	3230	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	182	172	109	181	154	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.037	0.035	<0.031	<0.031	0.047	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	2.05	1.42	0.909	1.68	1.14	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	TR-01-L_2025 ----	TR-02-L_2025 ----	TR-03-L_2025 ----	TR-05-L_2025 ----	TR-07-L_2025 ----
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519848-001	WT2519848-002	WT2519848-003	WT2519848-004	WT2519848-005	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	8.19	7.82	5.02	5.52	4.34	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	741	634	356	511	556	
Potassium	7440-09-7	E464/BU	20	mg/kg	3370	2950	1880	3240	2760	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	23.2	18.5	13.5	21.0	17.2	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.126	0.092	0.060	0.091	0.095	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0724	0.0571	0.0359	0.0624	0.0654	
Sodium	7440-23-5	E464/BU	25	mg/kg	227	226	134	246	361	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	29.2	37.1	21.4	36.0	29.7	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.121	0.0961	0.0748	0.107	0.0764	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.41	0.36	0.32	1.14	0.27	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.62	0.43	0.30	0.48	0.53	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	1.99	1.54	1.40	2.03	1.42	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	8.90	7.21	5.91	7.13	5.25	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	35.4	30.0	18.7	28.3	29.4	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	10.9	8.83	7.32	11.2	7.75	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	TR-08-L_2025	TR-09-L_2025	TR-11-L_2025	TR-12-L_2025	TR-14-L_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519848-006	WT2519848-007	WT2519848-008	WT2519848-009	WT2519848-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	46.3	49.9	58.0	66.7	61.9	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	2740	3150	2680	3680	2300	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	<0.010	<0.010	0.013	<0.010	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.532	0.617	0.366	0.363	0.248	
Barium	7440-39-3	E464/BU	0.10	mg/kg	41.2	37.6	30.4	37.6	20.1	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.133	0.155	0.105	0.131	0.070	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.072	0.060	0.084	0.135	0.033	
Boron	7440-42-8	E464/BU	1.0	mg/kg	6.1	8.7	2.4	4.8	1.8	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0643	0.0521	0.0950	0.0652	0.0460	
Calcium	7440-70-2	E464/BU	25	mg/kg	82400	64300	15800	14200	2400	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	5.13	5.86	4.28	5.60	3.77	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	1.22	1.36	0.963	1.43	0.911	
Copper	7440-50-8	E464/BU	0.10	mg/kg	3.77	3.80	3.34	4.59	2.53	
Iron	7439-89-6	E464/BU	2.5	mg/kg	6330	6670	6100	6930	5880	
Lead	7439-92-1	E464/BU	0.020	mg/kg	5.83	4.90	5.67	4.42	1.66	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	7.24	8.32	3.67	5.11	2.14	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	5170	6610	2160	3040	1980	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	135	130	107	117	81.8	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.036	0.043	0.039	0.045	0.038	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.777	0.867	0.816	1.02	0.556	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	TR-08-L_2025 ----	TR-09-L_2025 ----	TR-11-L_2025 ----	TR-12-L_2025 ----	TR-14-L_2025 ----
					Client sampling date / time	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519848-006	WT2519848-007	WT2519848-008	WT2519848-009	WT2519848-010	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	2.85	3.22	2.82	3.40	2.51	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	495	494	544	471	587	
Potassium	7440-09-7	E464/BU	20	mg/kg	2560	2490	2480	2220	2060	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	14.2	14.5	14.5	14.8	14.4	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.084	0.104	0.092	0.091	0.064	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0580	0.0513	0.0543	0.0383	0.0214	
Sodium	7440-23-5	E464/BU	25	mg/kg	316	245	387	279	135	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	96.2	71.5	22.9	13.1	5.57	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0604	0.0660	0.0595	0.0696	0.0397	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.23	0.24	0.19	0.26	0.14	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.24	0.15	0.36	0.76	0.22	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	2.19	1.55	0.890	1.02	0.426	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	4.03	4.98	3.37	5.05	2.90	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	22.2	22.1	20.9	22.0	19.8	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	7.03	7.58	5.94	5.67	3.02	

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519848</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 10</p> <p>No. of samples analysed : 10</p>	<p>Page : 1 of 9</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 17-Jul-2025 09:00</p> <p>Issue Date : 28-Aug-2025 08:26</p>
---	--

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Biota

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Metals	WT2519848-001	TR-01-L_2025	Antimony	7440-36-0	E464	48.5 % ^K	70.0-130%	Recovery less than lower data quality objective
Metals	WT2519848-001	TR-01-L_2025	Tungsten	7440-33-7	E464	44.8 % ^K	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-01-L_2025	E524	13-Jul-2025	07-Aug-2025	28 days	25 days	✓	11-Aug-2025	28 days	25 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-02-L_2025	E524	13-Jul-2025	07-Aug-2025	28 days	25 days	✓	11-Aug-2025	28 days	25 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-11-L_2025	E524	13-Jul-2025	07-Aug-2025	28 days	25 days	✓	11-Aug-2025	28 days	25 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-14-L_2025	E524	13-Jul-2025	07-Aug-2025	28 days	25 days	✓	11-Aug-2025	28 days	25 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-03-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✓	11-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-05-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✓	11-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-07-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✓	11-Aug-2025	28 days	26 days	*	EHT



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-08-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✔	11-Aug-2025	28 days	26 days	✖ EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-09-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✔	11-Aug-2025	28 days	26 days	✖ EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag TR-12-L_2025	E524	12-Jul-2025	07-Aug-2025	28 days	26 days	✔	11-Aug-2025	28 days	26 days	✖ EHT	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-01-L_2025	E464	13-Jul-2025	07-Aug-2025	180 days	25 days	✔	12-Aug-2025	180 days	25 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-02-L_2025	E464	13-Jul-2025	07-Aug-2025	180 days	25 days	✔	12-Aug-2025	180 days	25 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-11-L_2025	E464	13-Jul-2025	07-Aug-2025	180 days	25 days	✔	12-Aug-2025	180 days	25 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-14-L_2025	E464	13-Jul-2025	07-Aug-2025	180 days	25 days	✔	12-Aug-2025	180 days	25 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-03-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✔	12-Aug-2025	180 days	26 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-05-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✔	12-Aug-2025	180 days	26 days	✔	



Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-07-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✓	12-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-08-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✓	12-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-09-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✓	12-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag TR-12-L_2025	E464	12-Jul-2025	07-Aug-2025	180 days	26 days	✓	12-Aug-2025	180 days	26 days	✓	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-01-L_2025	E144	13-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-02-L_2025	E144	13-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-03-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-05-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-07-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----		



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-08-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-09-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-11-L_2025	E144	13-Jul-2025	----	----	----		15-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-12-L_2025	E144	12-Jul-2025	----	----	----		15-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-14-L_2025	E144	13-Jul-2025	----	----	----		15-Aug-2025	----	----	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Moisture Content by Gravimetry	E144 ALS Environmental - Burlington	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 6020B (analysis)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process. Instrumental analysis is performed via collision-reaction cell ICPMS. Data is reported on a dry weight basis.
Mercury in Tissues by CVAAS (DRY units, Routine)	E524 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 7470A (analytical)	After microwave digestion, a sub-sample is re-digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA. Data is reported on a dry weight basis.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury in Tissues - Digestion	EP464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process.

QUALITY CONTROL REPORT

Work Order	: WT2519848	Page	: 1 of 10
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 17-Jul-2025 09:00
PO	: 4500156571	Date Analysis Commenced	: 07-Aug-2025
C-O-C number	: ----	Issue Date	: 28-Aug-2025 08:26
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu	Analyst	Burlington Metals, Burlington, Ontario
Navdeep Buttar		Burlington Organics, Burlington, Ontario
Sabir Ahmed	Analyst	Burlington Metals, Burlington, Ontario

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Work Order : WT2519848
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2162816)											
WT2519848-001	TR-01-L_2025	Moisture	----	E144	0.50	%	58.0	57.9	0.156%	20%	----
Metals (QC Lot: 2147240)											
WT2519848-001	TR-01-L_2025	Aluminum	7429-90-5	E464	19.7	mg/kg	5690	5730	0.756%	20%	----
		Antimony	7440-36-0	E464	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E464	0.0200	mg/kg	0.647	0.629	2.69%	20%	----
		Barium	7440-39-3	E464	0.10	mg/kg	50.6	51.0	0.799%	20%	----
		Beryllium	7440-41-7	E464	0.010	mg/kg	0.210	0.211	0.789%	20%	----
		Bismuth	7440-69-9	E464	0.010	mg/kg	0.152	0.131	15.2%	20%	----
		Boron	7440-42-8	E464	1.0	mg/kg	4.9	5.0	0.1	Diff <2x LOR	----
		Cadmium	7440-43-9	E464	0.0050	mg/kg	0.104	0.102	1.68%	20%	----
		Calcium	7440-70-2	E464	25	mg/kg	13700	13900	1.22%	20%	----
		Chromium	7440-47-3	E464	0.050	mg/kg	12.7	12.5	1.87%	20%	----
		Cobalt	7440-48-4	E464	0.020	mg/kg	2.62	2.59	1.08%	20%	----
		Copper	7440-50-8	E464	0.10	mg/kg	8.34	8.01	4.02%	20%	----
		Iron	7439-89-6	E464	2.5	mg/kg	13800	13400	2.38%	20%	----
		Lead	7439-92-1	E464	0.020	mg/kg	6.71	6.56	2.25%	20%	----
		Lithium	7439-93-2	E464	0.50	mg/kg	9.10	8.92	1.96%	20%	----
		Magnesium	7439-95-4	E464	5.0	mg/kg	4590	4660	1.44%	20%	----
		Manganese	7439-96-5	E464	0.50	mg/kg	182	177	2.71%	20%	----
		Molybdenum	7439-98-7	E464	0.020	mg/kg	2.05	1.91	7.47%	20%	----
		Nickel	7440-02-0	E464	0.20	mg/kg	8.19	8.14	0.633%	20%	----
		Phosphorus	7723-14-0	E464	10	mg/kg	741	719	2.96%	20%	----
		Potassium	7440-09-7	E464	20	mg/kg	3370	3390	0.725%	20%	----
		Rubidium	7440-17-7	E464	0.10	mg/kg	23.2	23.1	0.398%	20%	----
		Selenium	7782-49-2	E464	0.050	mg/kg	0.126	0.128	0.002	Diff <2x LOR	----
		Silver	7440-22-4	E464	0.0050	mg/kg	0.0724	0.0717	0.972%	20%	----
		Sodium	7440-23-5	E464	25	mg/kg	227	224	3	Diff <2x LOR	----
		Strontium	7440-24-6	E464	0.10	mg/kg	29.2	29.2	0.203%	20%	----
		Tellurium	13494-80-9	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Thallium	7440-28-0	E464	0.0020	mg/kg	0.121	0.118	2.63%	20%	----



Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2147240) - continued											
WT2519848-001	TR-01-L_2025	Tin	7440-31-5	E464	0.10	mg/kg	0.41	0.39	0.01	Diff <2x LOR	----
		Tungsten	7440-33-7	E464	0.10	mg/kg	0.62	0.55	0.06	Diff <2x LOR	----
		Uranium	7440-61-1	E464	0.020	mg/kg	1.99	1.84	7.89%	20%	----
		Vanadium	7440-62-2	E464	0.10	mg/kg	8.90	8.85	0.537%	20%	----
		Zinc	7440-66-6	E464	0.50	mg/kg	35.4	34.9	1.40%	20%	----
		Zirconium	7440-67-7	E464	0.30	mg/kg	10.9	10.9	0.304%	20%	----
Metals (QC Lot: 2147241)											
WT2519848-001	TR-01-L_2025	Mercury	7439-97-6	E524	0.031	mg/kg	0.037	0.037	0.0006	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2162816)						
Moisture	---	E144	0.5	%	<0.50	---
Metals (QCLot: 2147240)						
Aluminum	7429-90-5	E464	2	mg/kg	<2.0	---
Antimony	7440-36-0	E464	0.01	mg/kg	<0.010	---
Arsenic	7440-38-2	E464	0.02	mg/kg	<0.0200	---
Barium	7440-39-3	E464	0.1	mg/kg	<0.10	---
Beryllium	7440-41-7	E464	0.01	mg/kg	<0.010	---
Bismuth	7440-69-9	E464	0.01	mg/kg	<0.010	---
Boron	7440-42-8	E464	1	mg/kg	<1.0	---
Cadmium	7440-43-9	E464	0.005	mg/kg	<0.0050	---
Calcium	7440-70-2	E464	25	mg/kg	<25	---
Chromium	7440-47-3	E464	0.05	mg/kg	<0.050	---
Cobalt	7440-48-4	E464	0.02	mg/kg	<0.020	---
Copper	7440-50-8	E464	0.1	mg/kg	<0.10	---
Iron	7439-89-6	E464	2.5	mg/kg	<2.5	---
Lead	7439-92-1	E464	0.02	mg/kg	<0.020	---
Lithium	7439-93-2	E464	0.5	mg/kg	<0.50	---
Magnesium	7439-95-4	E464	5	mg/kg	<5.0	---
Manganese	7439-96-5	E464	0.5	mg/kg	<0.50	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	<0.020	---
Nickel	7440-02-0	E464	0.2	mg/kg	<0.20	---
Phosphorus	7723-14-0	E464	10	mg/kg	<10	---
Potassium	7440-09-7	E464	20	mg/kg	<20	---
Rubidium	7440-17-7	E464	0.1	mg/kg	<0.10	---
Selenium	7782-49-2	E464	0.05	mg/kg	<0.050	---
Silver	7440-22-4	E464	0.005	mg/kg	<0.0050	---
Sodium	7440-23-5	E464	25	mg/kg	<25	---
Strontium	7440-24-6	E464	0.1	mg/kg	<0.10	---
Tellurium	13494-80-9	E464	0.1	mg/kg	<0.10	---
Thallium	7440-28-0	E464	0.002	mg/kg	<0.0020	---
Tin	7440-31-5	E464	0.1	mg/kg	<0.10	---
Tungsten	7440-33-7	E464	0.1	mg/kg	<0.10	---

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Work Order : WT2519848
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: **Biota**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2147240) - continued						
Uranium	7440-61-1	E464	0.02	mg/kg	<0.020	----
Vanadium	7440-62-2	E464	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E464	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E464	0.3	mg/kg	<0.30	----
Metals (QCLot: 2147241)						
Mercury	7439-97-6	E524	0.0313	mg/kg	<0.031	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	
Physical Tests (QCLot: 2162816)									
Moisture	---	E144	0.5	%	50 %	101	90.0	110	---
Metals (QCLot: 2147240)									
Aluminum	7429-90-5	E464	2	mg/kg	10 mg/kg	89.1	70.0	130	---
Antimony	7440-36-0	E464	0.01	mg/kg	5 mg/kg	90.5	70.0	130	---
Arsenic	7440-38-2	E464	0.02	mg/kg	5 mg/kg	86.5	70.0	130	---
Barium	7440-39-3	E464	0.1	mg/kg	1.25 mg/kg	84.1	70.0	130	---
Beryllium	7440-41-7	E464	0.01	mg/kg	0.5 mg/kg	82.2	70.0	130	---
Bismuth	7440-69-9	E464	0.01	mg/kg	5 mg/kg	84.2	70.0	130	---
Boron	7440-42-8	E464	1	mg/kg	5 mg/kg	83.0	70.0	130	---
Cadmium	7440-43-9	E464	0.005	mg/kg	0.5 mg/kg	82.6	70.0	130	---
Calcium	7440-70-2	E464	25	mg/kg	250 mg/kg	85.7	70.0	130	---
Chromium	7440-47-3	E464	0.05	mg/kg	1.25 mg/kg	86.5	70.0	130	---
Cobalt	7440-48-4	E464	0.02	mg/kg	1.25 mg/kg	85.9	70.0	130	---
Copper	7440-50-8	E464	0.1	mg/kg	1.25 mg/kg	85.1	70.0	130	---
Iron	7439-89-6	E464	2.5	mg/kg	5 mg/kg	85.1	70.0	130	---
Lead	7439-92-1	E464	0.02	mg/kg	2.5 mg/kg	81.3	70.0	130	---
Lithium	7439-93-2	E464	0.5	mg/kg	1.04 mg/kg	81.4	70.0	130	---
Magnesium	7439-95-4	E464	5	mg/kg	250 mg/kg	97.6	70.0	130	---
Manganese	7439-96-5	E464	0.5	mg/kg	1.25 mg/kg	86.0	70.0	130	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	1.25 mg/kg	85.8	70.0	130	---
Nickel	7440-02-0	E464	0.2	mg/kg	2.5 mg/kg	85.4	70.0	130	---
Phosphorus	7723-14-0	E464	10	mg/kg	50 mg/kg	84.5	70.0	130	---
Potassium	7440-09-7	E464	20	mg/kg	250 mg/kg	90.6	70.0	130	---
Rubidium	7440-17-7	E464	0.1	mg/kg	0.5 mg/kg	84.9	70.0	130	---
Selenium	7782-49-2	E464	0.05	mg/kg	5 mg/kg	71.7	70.0	130	---
Silver	7440-22-4	E464	0.005	mg/kg	0.5 mg/kg	74.8	70.0	130	---
Sodium	7440-23-5	E464	25	mg/kg	250 mg/kg	95.8	70.0	130	---
Strontium	7440-24-6	E464	0.1	mg/kg	1.25 mg/kg	81.6	70.0	130	---
Tellurium	13494-80-9	E464	0.1	mg/kg	0.5 mg/kg	72.7	70.0	130	---
Thallium	7440-28-0	E464	0.002	mg/kg	5 mg/kg	81.4	70.0	130	---
Tin	7440-31-5	E464	0.1	mg/kg	2.5 mg/kg	82.2	70.0	130	---
Tungsten	7440-33-7	E464	0.1	mg/kg	0.5 mg/kg	81.5	70.0	130	---



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2147240) - continued									
Uranium	7440-61-1	E464	0.02	mg/kg	0.025 mg/kg	77.0	70.0	130	----
Vanadium	7440-62-2	E464	0.1	mg/kg	2.5 mg/kg	86.6	70.0	130	----
Zinc	7440-66-6	E464	0.5	mg/kg	2.5 mg/kg	82.0	70.0	130	----
Zirconium	7440-67-7	E464	0.3	mg/kg	0.5 mg/kg	75.5	70.0	130	----
Metals (QCLot: 2147241)									
Mercury	7439-97-6	E524	0.0313	mg/kg	0.083 mg/kg	92.6	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Biota

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 2147240)										
WT2519848-001	TR-01-L_2025	Aluminum	7429-90-5	E464	ND mg/kg	----	ND	70.0	130	----
		Antimony	7440-36-0	E464	2.02 mg/kg	4.16 mg/kg	48.5	70.0	130	K
		Arsenic	7440-38-2	E464	4.50 mg/kg	4.98 mg/kg	90.2	70.0	130	----
		Barium	7440-39-3	E464	ND mg/kg	----	ND	70.0	130	----
		Beryllium	7440-41-7	E464	0.437 mg/kg	0.498 mg/kg	87.7	70.0	130	----
		Bismuth	7440-69-9	E464	3.99 mg/kg	4.98 mg/kg	80.0	70.0	130	----
		Boron	7440-42-8	E464	4.2 mg/kg	4.98 mg/kg	85.3	70.0	130	----
		Cadmium	7440-43-9	E464	0.413 mg/kg	0.498 mg/kg	83.0	70.0	130	----
		Calcium	7440-70-2	E464	ND mg/kg	----	ND	70.0	130	----
		Chromium	7440-47-3	E464	ND mg/kg	----	ND	70.0	130	----
		Cobalt	7440-48-4	E464	1.08 mg/kg	1.25 mg/kg	86.9	70.0	130	----
		Copper	7440-50-8	E464	ND mg/kg	----	ND	70.0	130	----
		Iron	7439-89-6	E464	ND mg/kg	----	ND	70.0	130	----
		Lead	7439-92-1	E464	ND mg/kg	----	ND	70.0	130	----
		Lithium	7439-93-2	E464	ND mg/kg	----	ND	70.0	130	----
		Magnesium	7439-95-4	E464	ND mg/kg	----	ND	70.0	130	----
		Manganese	7439-96-5	E464	ND mg/kg	----	ND	70.0	130	----
		Molybdenum	7439-98-7	E464	1.07 mg/kg	1.25 mg/kg	86.1	70.0	130	----
		Nickel	7440-02-0	E464	ND mg/kg	----	ND	70.0	130	----
		Phosphorus	7723-14-0	E464	ND mg/kg	----	ND	70.0	130	----
		Potassium	7440-09-7	E464	ND mg/kg	----	ND	70.0	130	----
		Rubidium	7440-17-7	E464	ND mg/kg	----	ND	70.0	130	----
		Selenium	7782-49-2	E464	4.13 mg/kg	4.98 mg/kg	82.8	70.0	130	----
		Silver	7440-22-4	E464	0.364 mg/kg	0.498 mg/kg	73.1	70.0	130	----
		Sodium	7440-23-5	E464	255 mg/kg	249 mg/kg	102	70.0	130	----
		Strontium	7440-24-6	E464	ND mg/kg	----	ND	70.0	130	----
		Tellurium	13494-80-9	E464	0.37 mg/kg	0.498 mg/kg	75.2	70.0	130	----
		Thallium	7440-28-0	E464	4.02 mg/kg	4.98 mg/kg	80.7	70.0	130	----
		Tin	7440-31-5	E464	1.83 mg/kg	2.49 mg/kg	73.6	70.0	130	----
		Tungsten	7440-33-7	E464	0.19 mg/kg	0.416 mg/kg	44.8	70.0	130	K
		Uranium	7440-61-1	E464	ND mg/kg	----	ND	70.0	130	----
		Vanadium	7440-62-2	E464	ND mg/kg	----	ND	70.0	130	----
		Zinc	7440-66-6	E464	ND mg/kg	----	ND	70.0	130	----
		Zirconium	7440-67-7	E464	ND mg/kg	----	ND	70.0	130	----
Metals (QCLot: 2147241)										
WT2519848-001	TR-01-L_2025	Mercury	7439-97-6	E524	0.070 mg/kg	0.083 mg/kg	83.6	70.0	130	----

Page : 10 of 10
Work Order : WT2519848
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Qualifiers

<i>Qualifier</i>	<i>Description</i>
K	<i>Matrix Spike recovery outside ALS DQO due to sample matrix effects.</i>



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number

Environmental Division
Waterloo
Work Order Reference
WT2519848



1 519 866 6911

Report To: EDI - Environmental Dynamics Inc 50 Baffinland Iron Mine
Company: Baffinland Iron Mine Corporation
Contact: Daniel Hall
Phone: 403-479-1040
Street: 400-622 5 Avenue SW
City/Province: Calgary, AB
Postal Code: T2P 0M6
ALS Account # / Quote #: 4500156571
Job #: 25C0127_2025_Metals_Sampling
PO / AFE: 4500156571
ALS Lab Work Order # (lab use only): 673519848
Sample Identification (this automatically):
Sample Location (SYS_LOC_CODE):
Sampling Date (dd-mm-yy):
Time (hh:mm):
Field Matrix:
Number of Containers:
Samples on Hold:
Extended Storage Required:
Suspected Hazard (see notes):

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY by the user at knowledge and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
1. If any water samples are taken from a Regulated Drinking Water (RDW) System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS

Work Order	: WT2519898		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 17-Jul-2025 09:00
C-O-C number	: ----	Date Analysis Commenced	: 21-Aug-2025
Sampler	: BD/AL	Issue Date	: 28-Aug-2025 14:33
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu		Metals, Burlington, Ontario
Navdeep Buttar		Organics, Burlington, Ontario
Sabir Ahmed		Metals, Burlington, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-01-L_2025 ----	MP-02-L_2025 ----	MP-03-L_2025 ----	MP-04-L_2025 ----	MP-05-L_2025 ----
					Client sampling date / time	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519898-001	WT2519898-002	WT2519898-003	WT2519898-004	WT2519898-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	70.5	68.0	66.1	42.6	38.5	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	1620	1820	1700	1280	1170	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	0.016	0.013	0.012	0.011	0.011	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.325	0.359	0.436	0.426	0.536	
Barium	7440-39-3	E464/BU	0.10	mg/kg	20.6	13.2	15.2	14.6	12.1	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.074	0.098	0.098	0.067	0.070	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.032	0.130	0.032	0.033	0.032	
Boron	7440-42-8	E464/BU	1.0	mg/kg	3.7	4.6	4.6	3.9	2.9	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0527	0.0511	0.0541	0.0399	0.0539	
Calcium	7440-70-2	E464/BU	25	mg/kg	24600	39400	37600	31400	35800	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	2.53	3.16	3.30	2.62	2.82	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	0.686	1.03	1.35	0.653	0.741	
Copper	7440-50-8	E464/BU	0.10	mg/kg	2.51	2.54	2.51	2.23	2.17	
Iron	7439-89-6	E464/BU	2.5	mg/kg	6330	5170	6830	6680	7230	
Lead	7439-92-1	E464/BU	0.020	mg/kg	2.60	3.15	3.38	2.49	3.73	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	2.22	4.61	4.28	2.98	2.72	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	1750	2520	1970	2060	1900	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	76.2	68.9	77.2	67.3	61.0	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.081	0.060	0.048	0.054	0.045	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.541	0.347	0.489	0.571	0.518	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-01-L_2025 ----	MP-02-L_2025 ----	MP-03-L_2025 ----	MP-04-L_2025 ----	MP-05-L_2025 ----
					Client sampling date / time	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519898-001	WT2519898-002	WT2519898-003	WT2519898-004	WT2519898-005	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	1.74	2.10	1.98	1.78	1.92	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	439	357	358	433	407	
Potassium	7440-09-7	E464/BU	20	mg/kg	1700	1570	1540	1710	1560	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	7.91	7.80	8.69	7.69	7.13	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.098	0.106	0.096	0.092	0.102	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0309	0.0254	0.0296	0.0249	0.0277	
Sodium	7440-23-5	E464/BU	25	mg/kg	316	230	263	326	307	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	22.4	20.6	21.4	20.3	24.6	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0340	0.0361	0.0367	0.0255	0.0230	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.17	0.14	0.22	0.14	<0.10	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.11	<0.10	<0.10	0.15	0.15	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.918	1.20	1.42	1.32	1.43	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	2.17	3.51	3.06	2.02	2.05	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	19.0	15.9	15.3	14.4	13.6	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	3.45	3.46	4.89	3.45	3.84	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-06-L_2025	MP-07-L_2025	MP-08-L_2025	MP-09-L_2025	MP-10-L_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15	
					WT2519898-006	WT2519898-007	WT2519898-008	WT2519898-009	WT2519898-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	53.0	51.4	13.6	61.4	58.5	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	1540	1930	839	1040	2370	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	0.016	0.015	<0.010	0.019	0.015	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.581	0.947	0.157	0.422	0.612	
Barium	7440-39-3	E464/BU	0.10	mg/kg	15.6	13.0	9.17	10.4	12.2	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.091	0.109	0.042	0.056	0.121	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.046	0.034	0.012	0.021	0.028	
Boron	7440-42-8	E464/BU	1.0	mg/kg	3.5	8.4	5.4	4.2	11.0	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0524	0.0457	0.0466	0.0733	0.0591	
Calcium	7440-70-2	E464/BU	25	mg/kg	29100	35400	25600	35700	31800	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	3.69	4.57	1.51	2.43	4.64	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	0.948	1.35	0.448	0.598	1.08	
Copper	7440-50-8	E464/BU	0.10	mg/kg	2.69	3.06	1.85	2.21	3.18	
Iron	7439-89-6	E464/BU	2.5	mg/kg	10600	12600	2300	7270	8040	
Lead	7439-92-1	E464/BU	0.020	mg/kg	3.60	3.04	1.21	2.14	2.75	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	3.43	4.86	1.59	1.74	5.45	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	1840	2740	3020	1460	2840	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	78.0	88.5	39.4	48.9	72.2	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.058	0.040	0.044	0.063	0.073	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.667	0.732	0.148	0.416	0.472	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-06-L_2025	MP-07-L_2025	MP-08-L_2025	MP-09-L_2025	MP-10-L_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15	
					WT2519898-006	WT2519898-007	WT2519898-008	WT2519898-009	WT2519898-010	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	2.43	3.42	1.26	1.71	2.87	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	458	493	174	496	531	
Potassium	7440-09-7	E464/BU	20	mg/kg	1730	1780	2000	1620	1990	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	8.56	6.58	3.31	5.90	7.21	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.116	0.096	<0.050	0.115	0.104	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0292	0.0281	0.0114	0.0190	0.0235	
Sodium	7440-23-5	E464/BU	25	mg/kg	307	329	861	297	330	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	26.5	34.0	41.8	27.8	33.6	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0299	0.0275	0.0122	0.0201	0.0368	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.12	0.12	<0.10	<0.10	0.15	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.19	0.13	<0.10	<0.10	<0.10	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	1.36	0.950	0.390	0.501	0.674	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	2.55	3.35	0.95	1.94	4.29	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	16.2	14.6	17.2	15.7	18.0	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	4.91	4.77	0.41	2.30	4.45	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-11-L_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519898-011	----	----	----	----	----
						Result	----	----	----	----
Physical Tests										
Moisture	----	E144/BU	0.50	%	59.0	----	----	----	----	----
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	1440	----	----	----	----	----
Antimony	7440-36-0	E464/BU	0.010	mg/kg	0.017	----	----	----	----	----
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.521	----	----	----	----	----
Barium	7440-39-3	E464/BU	0.10	mg/kg	15.0	----	----	----	----	----
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.072	----	----	----	----	----
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.031	----	----	----	----	----
Boron	7440-42-8	E464/BU	1.0	mg/kg	4.3	----	----	----	----	----
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0781	----	----	----	----	----
Calcium	7440-70-2	E464/BU	25	mg/kg	20300	----	----	----	----	----
Chromium	7440-47-3	E464/BU	0.050	mg/kg	3.02	----	----	----	----	----
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	0.894	----	----	----	----	----
Copper	7440-50-8	E464/BU	0.10	mg/kg	2.61	----	----	----	----	----
Iron	7439-89-6	E464/BU	2.5	mg/kg	10100	----	----	----	----	----
Lead	7439-92-1	E464/BU	0.020	mg/kg	2.77	----	----	----	----	----
Lithium	7439-93-2	E464/BU	0.50	mg/kg	2.88	----	----	----	----	----
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	2060	----	----	----	----	----
Manganese	7439-96-5	E464/BU	0.50	mg/kg	67.7	----	----	----	----	----
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.083	----	----	----	----	----
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.561	----	----	----	----	----



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-11-L_2025	---	---	---	---
					Client sampling date / time	10-Jul-2025 09:00	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519898-011	---	---	---	---	
						Result	---	---	---	---
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	2.26	---	---	---	---	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	531	---	---	---	---	
Potassium	7440-09-7	E464/BU	20	mg/kg	1770	---	---	---	---	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	6.20	---	---	---	---	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.111	---	---	---	---	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0348	---	---	---	---	
Sodium	7440-23-5	E464/BU	25	mg/kg	422	---	---	---	---	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	25.1	---	---	---	---	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	---	---	---	---	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0255	---	---	---	---	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.12	---	---	---	---	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.10	---	---	---	---	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.815	---	---	---	---	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	2.42	---	---	---	---	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	22.4	---	---	---	---	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	2.96	---	---	---	---	

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519898</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 11</p> <p>No. of samples analysed : 11</p>	<p>Page : 1 of 9</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 17-Jul-2025 09:00</p> <p>Issue Date : 28-Aug-2025 14:33</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Biota**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Metals	WT2519898-001	MP-01-L_2025	Antimony	7440-36-0	E464	64.6 % ^K	70.0-130%	Recovery less than lower data quality objective
Metals	WT2519898-001	MP-01-L_2025	Tungsten	7440-33-7	E464	63.5 % ^K	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-01-L_2025	E524	11-Jul-2025	18-Aug-2025	28 days	38 days	* EHT	21-Aug-2025	28 days	38 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-02-L_2025	E524	11-Jul-2025	18-Aug-2025	28 days	38 days	* EHT	21-Aug-2025	28 days	38 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-03-L_2025	E524	11-Jul-2025	18-Aug-2025	28 days	38 days	* EHT	21-Aug-2025	28 days	38 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-04-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	38 days	* EHT	21-Aug-2025	28 days	38 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-05-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	38 days	* EHT	21-Aug-2025	28 days	38 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-06-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-07-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT	



Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)										
LDPE bag MP-08-L_2025	E524	09-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)										
LDPE bag MP-09-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)										
LDPE bag MP-10-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)										
LDPE bag MP-11-L_2025	E524	10-Jul-2025	18-Aug-2025	28 days	39 days	* EHT	21-Aug-2025	28 days	39 days	* EHT
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)										
LDPE bag MP-01-L_2025	E464	11-Jul-2025	18-Aug-2025	180 days	38 days	✓	21-Aug-2025	180 days	38 days	✓
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)										
LDPE bag MP-02-L_2025	E464	11-Jul-2025	18-Aug-2025	180 days	38 days	✓	21-Aug-2025	180 days	38 days	✓
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)										
LDPE bag MP-03-L_2025	E464	11-Jul-2025	18-Aug-2025	180 days	38 days	✓	21-Aug-2025	180 days	38 days	✓
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)										
LDPE bag MP-04-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✓	21-Aug-2025	180 days	39 days	✓
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)										
LDPE bag MP-05-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✓	21-Aug-2025	180 days	39 days	✓



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-06-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✔	21-Aug-2025	180 days	39 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-07-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✔	21-Aug-2025	180 days	39 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-09-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✔	21-Aug-2025	180 days	39 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-10-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✔	21-Aug-2025	180 days	39 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-11-L_2025	E464	10-Jul-2025	18-Aug-2025	180 days	39 days	✔	21-Aug-2025	180 days	39 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-08-L_2025	E464	09-Jul-2025	18-Aug-2025	180 days	40 days	✔	21-Aug-2025	180 days	40 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-01-L_2025	E144	11-Jul-2025	----	----	----		22-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-02-L_2025	E144	11-Jul-2025	----	----	----		22-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-03-L_2025	E144	11-Jul-2025	----	----	----		22-Aug-2025	----	----		



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-04-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-05-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-06-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-07-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-08-L_2025	E144	09-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-09-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-10-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MP-11-L_2025	E144	10-Jul-2025	----	----	----		22-Aug-2025	----	----	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2177486	1	11	9.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2166704	1	17	5.8	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2166703	1	17	5.8	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2177486	1	11	9.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2166704	1	17	5.8	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2166703	1	17	5.8	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2177486	1	11	9.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2166704	1	17	5.8	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2166703	1	17	5.8	5.0	✔
Matrix Spikes (MS)							
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2166704	1	17	5.8	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2166703	1	17	5.8	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Moisture Content by Gravimetry	E144 ALS Environmental - Burlington	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 6020B (analysis)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process. Instrumental analysis is performed via collision-reaction cell ICPMS. Data is reported on a dry weight basis.
Mercury in Tissues by CVAAS (DRY units, Routine)	E524 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 7470A (analytical)	After microwave digestion, a sub-sample is re-digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA. Data is reported on a dry weight basis.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury in Tissues - Digestion	EP464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process.

QUALITY CONTROL REPORT

Work Order	: WT2519898	Page	: 1 of 10
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 17-Jul-2025 09:00
PO	: 4500156571	Date Analysis Commenced	: 18-Aug-2025
C-O-C number	: ----	Issue Date	: 28-Aug-2025 14:33
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu	Analyst	Burlington Metals, Burlington, Ontario
Navdeep Buttar		Burlington Organics, Burlington, Ontario
Sabir Ahmed	Analyst	Burlington Metals, Burlington, Ontario

Page : 2 of 10
Work Order : WT2519898
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2177486)											
WT2519898-001	MP-01-L_2025	Moisture	----	E144	0.50	%	70.5	71.0	0.594%	20%	----
Metals (QC Lot: 2166703)											
WT2519898-001	MP-01-L_2025	Mercury	7439-97-6	E524	0.031	mg/kg	0.081	0.078	0.002	Diff <2x LOR	----
Metals (QC Lot: 2166704)											
WT2519898-001	MP-01-L_2025	Aluminum	7429-90-5	E464	27.7	mg/kg	1620	1580	2.91%	20%	----
		Antimony	7440-36-0	E464	0.010	mg/kg	0.016	0.017	0.0005	Diff <2x LOR	----
		Arsenic	7440-38-2	E464	0.0200	mg/kg	0.325	0.344	5.56%	20%	----
		Barium	7440-39-3	E464	0.10	mg/kg	20.6	21.4	3.65%	20%	----
		Beryllium	7440-41-7	E464	0.010	mg/kg	0.074	0.080	0.006	Diff <2x LOR	----
		Bismuth	7440-69-9	E464	0.010	mg/kg	0.032	0.032	0.0002	Diff <2x LOR	----
		Boron	7440-42-8	E464	1.0	mg/kg	3.7	4.4	0.7	Diff <2x LOR	----
		Cadmium	7440-43-9	E464	0.0050	mg/kg	0.0527	0.0518	1.64%	20%	----
		Calcium	7440-70-2	E464	346	mg/kg	24600	22200	10.3%	20%	----
		Chromium	7440-47-3	E464	0.050	mg/kg	2.53	2.71	6.76%	20%	----
		Cobalt	7440-48-4	E464	0.020	mg/kg	0.686	0.692	0.871%	20%	----
		Copper	7440-50-8	E464	0.10	mg/kg	2.51	2.67	6.24%	20%	----
		Iron	7439-89-6	E464	2.5	mg/kg	6330	6590	4.04%	20%	----
		Lead	7439-92-1	E464	0.020	mg/kg	2.60	2.77	6.52%	20%	----
		Lithium	7439-93-2	E464	0.50	mg/kg	2.22	2.43	0.21	Diff <2x LOR	----
		Magnesium	7439-95-4	E464	69.3	mg/kg	1750	1620	7.70%	20%	----
		Manganese	7439-96-5	E464	0.50	mg/kg	76.2	68.4	10.8%	20%	----
		Molybdenum	7439-98-7	E464	0.020	mg/kg	0.541	0.533	1.56%	20%	----
		Nickel	7440-02-0	E464	0.20	mg/kg	1.74	1.77	0.03	Diff <2x LOR	----
		Phosphorus	7723-14-0	E464	10	mg/kg	439	432	1.50%	20%	----
		Potassium	7440-09-7	E464	20	mg/kg	1700	1780	4.59%	20%	----
		Rubidium	7440-17-7	E464	0.10	mg/kg	7.91	8.20	3.56%	20%	----
		Selenium	7782-49-2	E464	0.050	mg/kg	0.098	0.097	0.0008	Diff <2x LOR	----
		Silver	7440-22-4	E464	0.0050	mg/kg	0.0309	0.0233	0.0077	Diff <2x LOR	----
		Sodium	7440-23-5	E464	25	mg/kg	316	318	0.729%	20%	----
		Strontium	7440-24-6	E464	0.10	mg/kg	22.4	22.2	0.550%	20%	----

Page : 4 of 10
 Work Order : WT2519898
 Client : Baffinland Iron Mines Corporation
 Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: Biota

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2166704) - continued											
WT2519898-001	MP-01-L_2025	Tellurium	13494-80-9	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Thallium	7440-28-0	E464	0.0020	mg/kg	0.0340	0.0360	5.77%	20%	----
		Tin	7440-31-5	E464	0.10	mg/kg	0.17	0.17	0.006	Diff <2x LOR	----
		Tungsten	7440-33-7	E464	0.10	mg/kg	0.11	0.12	0.008	Diff <2x LOR	----
		Uranium	7440-61-1	E464	0.020	mg/kg	0.918	0.914	0.400%	20%	----
		Vanadium	7440-62-2	E464	0.10	mg/kg	2.17	2.36	8.36%	20%	----
		Zinc	7440-66-6	E464	0.50	mg/kg	19.0	18.3	3.68%	20%	----
		Zirconium	7440-67-7	E464	0.30	mg/kg	3.45	3.66	6.01%	20%	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2177486)						
Moisture	---	E144	0.5	%	<0.50	---
Metals (QCLot: 2166703)						
Mercury	7439-97-6	E524	0.0313	mg/kg	<0.031	---
Metals (QCLot: 2166704)						
Aluminum	7429-90-5	E464	2	mg/kg	<2.0	---
Antimony	7440-36-0	E464	0.01	mg/kg	<0.010	---
Arsenic	7440-38-2	E464	0.02	mg/kg	<0.0200	---
Barium	7440-39-3	E464	0.1	mg/kg	<0.10	---
Beryllium	7440-41-7	E464	0.01	mg/kg	<0.010	---
Bismuth	7440-69-9	E464	0.01	mg/kg	<0.010	---
Boron	7440-42-8	E464	1	mg/kg	<1.0	---
Cadmium	7440-43-9	E464	0.005	mg/kg	<0.0050	---
Calcium	7440-70-2	E464	25	mg/kg	<25	---
Chromium	7440-47-3	E464	0.05	mg/kg	<0.050	---
Cobalt	7440-48-4	E464	0.02	mg/kg	<0.020	---
Copper	7440-50-8	E464	0.1	mg/kg	<0.10	---
Iron	7439-89-6	E464	2.5	mg/kg	<2.5	---
Lead	7439-92-1	E464	0.02	mg/kg	<0.020	---
Lithium	7439-93-2	E464	0.5	mg/kg	<0.50	---
Magnesium	7439-95-4	E464	5	mg/kg	<5.0	---
Manganese	7439-96-5	E464	0.5	mg/kg	<0.50	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	<0.020	---
Nickel	7440-02-0	E464	0.2	mg/kg	<0.20	---
Phosphorus	7723-14-0	E464	10	mg/kg	<10	---
Potassium	7440-09-7	E464	20	mg/kg	<20	---
Rubidium	7440-17-7	E464	0.1	mg/kg	<0.10	---
Selenium	7782-49-2	E464	0.05	mg/kg	<0.050	---
Silver	7440-22-4	E464	0.005	mg/kg	<0.0050	---
Sodium	7440-23-5	E464	25	mg/kg	<25	---
Strontium	7440-24-6	E464	0.1	mg/kg	<0.10	---
Tellurium	13494-80-9	E464	0.1	mg/kg	<0.10	---
Thallium	7440-28-0	E464	0.002	mg/kg	<0.0020	---



Sub-Matrix: **Biota**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2166704) - continued						
Tin	7440-31-5	E464	0.1	mg/kg	<0.10	----
Tungsten	7440-33-7	E464	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E464	0.02	mg/kg	<0.020	----
Vanadium	7440-62-2	E464	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E464	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E464	0.3	mg/kg	<0.30	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2177486)									
Moisture	---	E144	0.5	%	50 %	101	90.0	110	---
Metals (QCLot: 2166703)									
Mercury	7439-97-6	E524	0.0313	mg/kg	0.083 mg/kg	91.0	70.0	130	---
Metals (QCLot: 2166704)									
Aluminum	7429-90-5	E464	2	mg/kg	10 mg/kg	87.4	70.0	130	---
Antimony	7440-36-0	E464	0.01	mg/kg	5 mg/kg	80.1	70.0	130	---
Arsenic	7440-38-2	E464	0.02	mg/kg	5 mg/kg	84.4	70.0	130	---
Barium	7440-39-3	E464	0.1	mg/kg	1.25 mg/kg	81.3	70.0	130	---
Beryllium	7440-41-7	E464	0.01	mg/kg	0.5 mg/kg	75.4	70.0	130	---
Bismuth	7440-69-9	E464	0.01	mg/kg	5 mg/kg	80.5	70.0	130	---
Boron	7440-42-8	E464	1	mg/kg	5 mg/kg	84.2	70.0	130	---
Cadmium	7440-43-9	E464	0.005	mg/kg	0.5 mg/kg	83.0	70.0	130	---
Calcium	7440-70-2	E464	25	mg/kg	250 mg/kg	82.3	70.0	130	---
Chromium	7440-47-3	E464	0.05	mg/kg	1.25 mg/kg	87.2	70.0	130	---
Cobalt	7440-48-4	E464	0.02	mg/kg	1.25 mg/kg	81.0	70.0	130	---
Copper	7440-50-8	E464	0.1	mg/kg	1.25 mg/kg	84.8	70.0	130	---
Iron	7439-89-6	E464	2.5	mg/kg	5 mg/kg	112	70.0	130	---
Lead	7439-92-1	E464	0.02	mg/kg	2.5 mg/kg	81.5	70.0	130	---
Lithium	7439-93-2	E464	0.5	mg/kg	1.04 mg/kg	76.8	70.0	130	---
Magnesium	7439-95-4	E464	5	mg/kg	250 mg/kg	93.2	70.0	130	---
Manganese	7439-96-5	E464	0.5	mg/kg	1.25 mg/kg	88.1	70.0	130	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	1.25 mg/kg	83.0	70.0	130	---
Nickel	7440-02-0	E464	0.2	mg/kg	2.5 mg/kg	84.0	70.0	130	---
Phosphorus	7723-14-0	E464	10	mg/kg	50 mg/kg	84.0	70.0	130	---
Potassium	7440-09-7	E464	20	mg/kg	250 mg/kg	88.3	70.0	130	---
Rubidium	7440-17-7	E464	0.1	mg/kg	0.5 mg/kg	86.2	70.0	130	---
Selenium	7782-49-2	E464	0.05	mg/kg	5 mg/kg	75.0	70.0	130	---
Silver	7440-22-4	E464	0.005	mg/kg	0.5 mg/kg	73.6	70.0	130	---
Sodium	7440-23-5	E464	25	mg/kg	250 mg/kg	86.9	70.0	130	---
Strontium	7440-24-6	E464	0.1	mg/kg	1.25 mg/kg	78.0	70.0	130	---
Tellurium	13494-80-9	E464	0.1	mg/kg	0.5 mg/kg	74.7	70.0	130	---
Thallium	7440-28-0	E464	0.002	mg/kg	5 mg/kg	80.2	70.0	130	---



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2166704) - continued									
Tin	7440-31-5	E464	0.1	mg/kg	2.5 mg/kg	80.1	70.0	130	----
Tungsten	7440-33-7	E464	0.1	mg/kg	0.5 mg/kg	79.4	70.0	130	----
Uranium	7440-61-1	E464	0.02	mg/kg	0.025 mg/kg	78.0	70.0	130	----
Vanadium	7440-62-2	E464	0.1	mg/kg	2.5 mg/kg	86.0	70.0	130	----
Zinc	7440-66-6	E464	0.5	mg/kg	2.5 mg/kg	83.5	70.0	130	----
Zirconium	7440-67-7	E464	0.3	mg/kg	0.5 mg/kg	75.5	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Biota

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 2166703)										
WT2519898-001	MP-01-L_2025	Mercury	7439-97-6	E524	0.067 mg/kg	0.082 mg/kg	81.8	70.0	130	----
Metals (QCLot: 2166704)										
WT2519898-001	MP-01-L_2025	Aluminum	7429-90-5	E464	ND mg/kg	----	ND	70.0	130	----
		Antimony	7440-36-0	E464	3.16 mg/kg	4.9 mg/kg	64.6	70.0	130	K
		Arsenic	7440-38-2	E464	4.25 mg/kg	4.9 mg/kg	86.8	70.0	130	----
		Barium	7440-39-3	E464	ND mg/kg	----	ND	70.0	130	----
		Beryllium	7440-41-7	E464	0.398 mg/kg	0.49 mg/kg	81.3	70.0	130	----
		Bismuth	7440-69-9	E464	3.94 mg/kg	4.9 mg/kg	80.4	70.0	130	----
		Boron	7440-42-8	E464	4.2 mg/kg	4.9 mg/kg	85.8	70.0	130	----
		Cadmium	7440-43-9	E464	0.400 mg/kg	0.49 mg/kg	81.7	70.0	130	----
		Calcium	7440-70-2	E464	ND mg/kg	----	ND	70.0	130	----
		Chromium	7440-47-3	E464	1.08 mg/kg	1.22 mg/kg	88.4	70.0	130	----
		Cobalt	7440-48-4	E464	0.959 mg/kg	1.22 mg/kg	78.3	70.0	130	----
		Copper	7440-50-8	E464	0.96 mg/kg	1.22 mg/kg	78.8	70.0	130	----
		Iron	7439-89-6	E464	ND mg/kg	----	ND	70.0	130	----
		Lead	7439-92-1	E464	2.01 mg/kg	2.45 mg/kg	82.1	70.0	130	----
		Lithium	7439-93-2	E464	1.39 mg/kg	1.22 mg/kg	114	70.0	130	----
		Magnesium	7439-95-4	E464	ND mg/kg	----	ND	70.0	130	----
		Manganese	7439-96-5	E464	ND mg/kg	----	ND	70.0	130	----
		Molybdenum	7439-98-7	E464	1.05 mg/kg	1.22 mg/kg	85.5	70.0	130	----
		Nickel	7440-02-0	E464	1.99 mg/kg	2.45 mg/kg	81.4	70.0	130	----
		Phosphorus	7723-14-0	E464	ND mg/kg	----	ND	70.0	130	----
		Potassium	7440-09-7	E464	ND mg/kg	----	ND	70.0	130	----
		Rubidium	7440-17-7	E464	ND mg/kg	----	ND	70.0	130	----
		Selenium	7782-49-2	E464	3.96 mg/kg	4.9 mg/kg	80.9	70.0	130	----
		Silver	7440-22-4	E464	0.352 mg/kg	0.49 mg/kg	71.8	70.0	130	----
		Sodium	7440-23-5	E464	221 mg/kg	245 mg/kg	90.3	70.0	130	----
		Strontium	7440-24-6	E464	ND mg/kg	----	ND	70.0	130	----
		Tellurium	13494-80-9	E464	0.38 mg/kg	0.49 mg/kg	77.6	70.0	130	----
		Thallium	7440-28-0	E464	4.01 mg/kg	4.9 mg/kg	81.8	70.0	130	----
		Tin	7440-31-5	E464	1.95 mg/kg	2.45 mg/kg	79.5	70.0	130	----
		Tungsten	7440-33-7	E464	0.31 mg/kg	0.49 mg/kg	63.5	70.0	130	K
		Uranium	7440-61-1	E464	ND mg/kg	----	ND	70.0	130	----
		Vanadium	7440-62-2	E464	2.17 mg/kg	2.45 mg/kg	88.7	70.0	130	----
		Zinc	7440-66-6	E464	ND mg/kg	----	ND	70.0	130	----
		Zirconium	7440-67-7	E464	ND mg/kg	----	ND	70.0	130	----

Page : 10 of 10
Work Order : WT2519898
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Qualifiers

<i>Qualifier</i>	<i>Description</i>
K	<i>Matrix Spike recovery outside ALS DQO due to sample matrix effects.</i>



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9978

COC Nur

Environmental Division
Waterloo
Work Order Reference
WT2519898



Telephone +1 519 886 6911

Report To: EDI - Environmental Dynamics Inc do Barfield Iron Mine
Company: Barfield Iron Mine Corporation
Contact: Daniel Hall
Phone: 403-479-1040
City/Province: Calgary, AB
Street: 400-822 5 Avenue SW
Postal Code: T2P 0W6
Invoice To: Same as Report To
Company: Barfield Iron Mine Corporation
Contact: Accounts Payable
ALS Account # / Quote #: 25C0127, 2025 Metals Sampling
Job #: 4600198671
PC / A/E: 4600198671

Reports / Receipts: Selected Report Format: pdf, excel, EOD (optional)
Merge Q/C/QC: Reports with ODA
Complete Results to Chain of Report - provide details below if box checked
Selected Distribution: Email 1 or Fax, Email 2, Email 3
Invoice Receipts: Email 1 or Fax, Email 2, Email 3
Selected Invoice Distribution: Email 1 or Fax, Email 2, Email 3
Oil and Gas Required Fields (client use): A/E/Coast Center, Magnitude Code, Requisitioner, Location, ALS Contact: Rick Hawthorne, Sampler: Bailey Durant, Andrew Lai

Table with columns: ALS Sample # (lab use only), Sample Identification (file automatically), (SYS_SAMPLE_CODE), Sample Location, (SYS_LOC_CODE), Sampling Date, (dd-mmm-yy), Time, (hh:mm), Field Matrix, NUMBER OF CONTAINERS (AG-DRY-CCMS-N-VA, HG-DRY-CVAFS-N-VA, MET-DRY-CCMS-N-VA, TH-DRY-CCMS-N-VA, MOISTURE-TISS-VA), SAMPLES ON HOLD, EXTENDED STORAGE REQUIRED, SUSPECTED HAZARD (see notes)

Drinking Water (DW) Samples (client use)
Are samples taken from a Regulated DW System?
Are samples for human consumption use?
SHIPMENT RELEASE (client use)
Date: 15-Jul-2025
Time: 08:00
Received by:
INITIAL SHIPMENT RECEPTION (lab use only)
Date:
Received by:

WHITE - LABORATORY COPY
YELLOW - CLIENT COPY
COOLING METHOD: NONE, ICE, ICE PACKS, ROZEL, COOLING INITIATED
Cooler Custody Seals Intact: YES, NO, N/A
Sample Custody Seals Intact: YES, NO, N/A
FINAL SHIPMENT RECEPTION (lab use only)
Date: 23.7
Received by: 2017552025

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form from field analysis Phase fill in this form (ESBL) by the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS

Work Order	: WT2519900		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 11-Aug-2025
Sampler	: BD/AL	Issue Date	: 28-Aug-2025 08:26
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu		Metals, Burlington, Ontario
Navdeep Buttar		Organics, Burlington, Ontario
Sabir Ahmed		Metals, Burlington, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-07-L_2025 ----	MS-08-L_2025 ----	MS-10-L_2025 ----	MS-16-L_2025 ----	MS-03-L_2025 ----
					Client sampling date / time	15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519900-001	WT2519900-002	WT2519900-003	WT2519900-004	WT2519900-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	66.2	61.6	58.5	62.4	68.6	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	2680	3320	3120	2810	2750	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	0.015	0.013	0.021	0.016	0.013	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.596	0.657	0.956	0.896	0.414	
Barium	7440-39-3	E464/BU	0.10	mg/kg	36.8	36.6	28.4	38.6	28.7	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.101	0.121	0.119	0.110	0.093	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.068	0.067	0.063	0.065	0.049	
Boron	7440-42-8	E464/BU	1.0	mg/kg	2.7	3.0	3.6	2.4	2.7	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.118	0.0849	0.0577	0.0892	0.0844	
Calcium	7440-70-2	E464/BU	25	mg/kg	11100	10300	12700	9050	19900	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	6.54	7.86	7.63	7.00	7.78	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	1.78	2.09	2.27	2.29	1.59	
Copper	7440-50-8	E464/BU	0.10	mg/kg	4.51	4.90	4.48	4.49	3.59	
Iron	7439-89-6	E464/BU	2.5	mg/kg	16000	15300	18700	20000	11300	
Lead	7439-92-1	E464/BU	0.020	mg/kg	2.33	2.43	2.55	2.54	2.06	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	1.56	1.81	1.97	1.53	1.39	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	3070	3160	2960	2970	3560	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	107	110	114	133	83.6	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.053	0.064	0.073	0.064	0.046	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.840	0.995	1.12	0.869	0.589	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-07-L_2025 ----	MS-08-L_2025 ----	MS-10-L_2025 ----	MS-16-L_2025 ----	MS-03-L_2025 ----
					Client sampling date / time	15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519900-001	WT2519900-002	WT2519900-003	WT2519900-004	WT2519900-005	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	6.02	6.28	6.19	6.02	8.05	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	671	740	850	772	564	
Potassium	7440-09-7	E464/BU	20	mg/kg	2560	2350	2460	2420	2210	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	10.9	10.8	9.93	10.0	10.3	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.134	0.124	0.115	0.127	0.116	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0380	0.0295	0.0344	0.0347	0.0284	
Sodium	7440-23-5	E464/BU	25	mg/kg	331	364	396	343	369	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	7.95	7.51	8.07	6.30	9.41	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0375	0.0432	0.0401	0.0349	0.0357	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.13	0.16	0.21	0.13	0.13	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.22	0.21	0.24	0.24	0.21	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.385	0.448	0.502	0.419	0.346	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	3.96	4.58	4.88	3.79	3.75	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	23.4	20.7	18.0	23.6	20.1	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	3.01	2.65	3.06	2.53	2.90	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-04-L_2025	MS-06-L_2025	MS-09-L_2025	MS-15-L_2025	MS-15-L_2025R
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40	
					WT2519900-006	WT2519900-007	WT2519900-008	WT2519900-009	WT2519900-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	64.5	71.1	61.6	67.6	70.4	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	2830	7660	2410	3210	4040	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	0.020	0.015	0.011	0.014	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.413	1.67	0.668	0.513	0.668	
Barium	7440-39-3	E464/BU	0.10	mg/kg	33.8	78.5	27.2	34.5	39.7	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.097	0.264	0.097	0.103	0.138	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.068	0.305	0.059	0.069	0.105	
Boron	7440-42-8	E464/BU	1.0	mg/kg	2.3	4.5	2.4	2.6	3.4	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.111	0.492	0.0936	0.0805	0.0826	
Calcium	7440-70-2	E464/BU	25	mg/kg	15500	13400	9940	12100	16900	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	6.86	18.1	5.83	7.09	9.02	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	1.48	5.36	1.73	1.76	2.14	
Copper	7440-50-8	E464/BU	0.10	mg/kg	3.72	37.8	4.15	5.00	5.56	
Iron	7439-89-6	E464/BU	2.5	mg/kg	8420	37300	15400	11600	15500	
Lead	7439-92-1	E464/BU	0.020	mg/kg	2.90	6.23	2.08	2.41	2.84	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	1.48	5.72	1.39	1.67	2.22	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	3050	6730	2590	3220	3720	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	83.7	255	90.9	93.4	114	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.070	0.037	0.058	0.060	0.068	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.822	2.82	0.831	1.15	1.55	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-04-L_2025 ----	MS-06-L_2025 ----	MS-09-L_2025 ----	MS-15-L_2025 ----	MS-15-L_2025R ----
					Client sampling date / time	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519900-006	WT2519900-007	WT2519900-008	WT2519900-009	WT2519900-010	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	5.42	14.1	4.78	5.14	6.49	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	535	684	668	650	663	
Potassium	7440-09-7	E464/BU	20	mg/kg	2280	3990	2400	2540	2570	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	10.2	19.5	8.84	10.7	12.2	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.136	0.146	0.103	0.112	0.111	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0329	0.0916	0.0280	0.0370	0.0430	
Sodium	7440-23-5	E464/BU	25	mg/kg	291	277	375	284	264	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	7.78	9.42	6.15	6.34	7.16	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0401	0.104	0.0365	0.0424	0.0549	
Tin	7440-31-5	E464/BU	0.10	mg/kg	0.13	0.59	0.19	0.15	0.28	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	0.15	0.36	0.25	0.22	0.21	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.388	0.989	0.403	0.396	0.484	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	4.00	11.0	3.24	4.32	5.39	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	20.2	37.7	22.7	21.3	20.2	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	2.92	7.61	2.38	3.38	3.79	

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519900</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 10</p> <p>No. of samples analysed : 10</p>	<p>Page : 1 of 9</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 28-Aug-2025 08:26</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Biota

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Metals	Anonymous	Anonymous	Antimony	7440-36-0	E464	48.5 % ^K	70.0-130%	Recovery less than lower data quality objective
Metals	Anonymous	Anonymous	Tungsten	7440-33-7	E464	44.8 % ^K	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-03-L_2025	E524	16-Jul-2025	07-Aug-2025	28 days	22 days	✔	11-Aug-2025	28 days	22 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-04-L_2025	E524	16-Jul-2025	07-Aug-2025	28 days	22 days	✔	11-Aug-2025	28 days	22 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-06-L_2025	E524	16-Jul-2025	07-Aug-2025	28 days	22 days	✔	11-Aug-2025	28 days	22 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-15-L_2025	E524	16-Jul-2025	07-Aug-2025	28 days	22 days	✔	11-Aug-2025	28 days	22 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-15-L_2025R	E524	16-Jul-2025	07-Aug-2025	28 days	22 days	✔	11-Aug-2025	28 days	22 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-07-L_2025	E524	15-Jul-2025	07-Aug-2025	28 days	23 days	✔	11-Aug-2025	28 days	23 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-08-L_2025	E524	15-Jul-2025	07-Aug-2025	28 days	23 days	✔	11-Aug-2025	28 days	23 days	✔	



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-09-L_2025	E524	15-Jul-2025	07-Aug-2025	28 days	23 days	✔	11-Aug-2025	28 days	23 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-10-L_2025	E524	15-Jul-2025	07-Aug-2025	28 days	23 days	✔	11-Aug-2025	28 days	23 days	✔	
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-16-L_2025	E524	15-Jul-2025	07-Aug-2025	28 days	23 days	✔	11-Aug-2025	28 days	23 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-03-L_2025	E464	16-Jul-2025	07-Aug-2025	180 days	22 days	✔	12-Aug-2025	180 days	22 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-04-L_2025	E464	16-Jul-2025	07-Aug-2025	180 days	22 days	✔	12-Aug-2025	180 days	22 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-06-L_2025	E464	16-Jul-2025	07-Aug-2025	180 days	22 days	✔	12-Aug-2025	180 days	22 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-15-L_2025	E464	16-Jul-2025	07-Aug-2025	180 days	22 days	✔	12-Aug-2025	180 days	22 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-15-L_2025R	E464	16-Jul-2025	07-Aug-2025	180 days	22 days	✔	12-Aug-2025	180 days	22 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-07-L_2025	E464	15-Jul-2025	07-Aug-2025	180 days	23 days	✔	12-Aug-2025	180 days	23 days	✔	



Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-08-L_2025	E464	15-Jul-2025	07-Aug-2025	180 days	23 days	✓	12-Aug-2025	180 days	23 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-09-L_2025	E464	15-Jul-2025	07-Aug-2025	180 days	23 days	✓	12-Aug-2025	180 days	23 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-10-L_2025	E464	15-Jul-2025	07-Aug-2025	180 days	23 days	✓	12-Aug-2025	180 days	23 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-16-L_2025	E464	15-Jul-2025	07-Aug-2025	180 days	23 days	✓	12-Aug-2025	180 days	23 days	✓	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-03-L_2025	E144	16-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-04-L_2025	E144	16-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-06-L_2025	E144	16-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-07-L_2025	E144	15-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-08-L_2025	E144	15-Jul-2025	----	----	----		15-Aug-2025	----	----		



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-09-L_2025	E144	15-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-10-L_2025	E144	15-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-15-L_2025	E144	16-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-15-L_2025R	E144	16-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-16-L_2025	E144	15-Jul-2025	----	----	----		15-Aug-2025	----	----		

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2162816	1	20	5.0	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2147240	1	20	5.0	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2147241	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Moisture Content by Gravimetry	E144 ALS Environmental - Burlington	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 6020B (analysis)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process. Instrumental analysis is performed via collision-reaction cell ICPMS. Data is reported on a dry weight basis.
Mercury in Tissues by CVAAS (DRY units, Routine)	E524 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 7470A (analytical)	After microwave digestion, a sub-sample is re-digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA. Data is reported on a dry weight basis.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury in Tissues - Digestion	EP464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process.

QUALITY CONTROL REPORT

Work Order	: WT2519900	Page	: 1 of 10
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 23-Jul-2025 09:30
PO	: 4500156571	Date Analysis Commenced	: 07-Aug-2025
C-O-C number	: ----	Issue Date	: 28-Aug-2025 08:26
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu	Analyst	Burlington Metals, Burlington, Ontario
Navdeep Buttar		Burlington Organics, Burlington, Ontario
Sabir Ahmed	Analyst	Burlington Metals, Burlington, Ontario

Page : 2 of 10
Work Order : WT2519900
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2162816)											
WT2519848-001	Anonymous	Moisture	----	E144	0.50	%	58.0	57.9	0.156%	20%	----
Metals (QC Lot: 2147240)											
WT2519848-001	Anonymous	Aluminum	7429-90-5	E464	19.7	mg/kg	5690	5730	0.756%	20%	----
		Antimony	7440-36-0	E464	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E464	0.0200	mg/kg	0.647	0.629	2.69%	20%	----
		Barium	7440-39-3	E464	0.10	mg/kg	50.6	51.0	0.799%	20%	----
		Beryllium	7440-41-7	E464	0.010	mg/kg	0.210	0.211	0.789%	20%	----
		Bismuth	7440-69-9	E464	0.010	mg/kg	0.152	0.131	15.2%	20%	----
		Boron	7440-42-8	E464	1.0	mg/kg	4.9	5.0	0.1	Diff <2x LOR	----
		Cadmium	7440-43-9	E464	0.0050	mg/kg	0.104	0.102	1.68%	20%	----
		Calcium	7440-70-2	E464	25	mg/kg	13700	13900	1.22%	20%	----
		Chromium	7440-47-3	E464	0.050	mg/kg	12.7	12.5	1.87%	20%	----
		Cobalt	7440-48-4	E464	0.020	mg/kg	2.62	2.59	1.08%	20%	----
		Copper	7440-50-8	E464	0.10	mg/kg	8.34	8.01	4.02%	20%	----
		Iron	7439-89-6	E464	2.5	mg/kg	13800	13400	2.38%	20%	----
		Lead	7439-92-1	E464	0.020	mg/kg	6.71	6.56	2.25%	20%	----
		Lithium	7439-93-2	E464	0.50	mg/kg	9.10	8.92	1.96%	20%	----
		Magnesium	7439-95-4	E464	5.0	mg/kg	4590	4660	1.44%	20%	----
		Manganese	7439-96-5	E464	0.50	mg/kg	182	177	2.71%	20%	----
		Molybdenum	7439-98-7	E464	0.020	mg/kg	2.05	1.91	7.47%	20%	----
		Nickel	7440-02-0	E464	0.20	mg/kg	8.19	8.14	0.633%	20%	----
		Phosphorus	7723-14-0	E464	10	mg/kg	741	719	2.96%	20%	----
		Potassium	7440-09-7	E464	20	mg/kg	3370	3390	0.725%	20%	----
		Rubidium	7440-17-7	E464	0.10	mg/kg	23.2	23.1	0.398%	20%	----
		Selenium	7782-49-2	E464	0.050	mg/kg	0.126	0.128	0.002	Diff <2x LOR	----
		Silver	7440-22-4	E464	0.0050	mg/kg	0.0724	0.0717	0.972%	20%	----
		Sodium	7440-23-5	E464	25	mg/kg	227	224	3	Diff <2x LOR	----
		Strontium	7440-24-6	E464	0.10	mg/kg	29.2	29.2	0.203%	20%	----
		Tellurium	13494-80-9	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Thallium	7440-28-0	E464	0.0020	mg/kg	0.121	0.118	2.63%	20%	----



Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2147240) - continued											
WT2519848-001	Anonymous	Tin	7440-31-5	E464	0.10	mg/kg	0.41	0.39	0.01	Diff <2x LOR	----
		Tungsten	7440-33-7	E464	0.10	mg/kg	0.62	0.55	0.06	Diff <2x LOR	----
		Uranium	7440-61-1	E464	0.020	mg/kg	1.99	1.84	7.89%	20%	----
		Vanadium	7440-62-2	E464	0.10	mg/kg	8.90	8.85	0.537%	20%	----
		Zinc	7440-66-6	E464	0.50	mg/kg	35.4	34.9	1.40%	20%	----
		Zirconium	7440-67-7	E464	0.30	mg/kg	10.9	10.9	0.304%	20%	----
Metals (QC Lot: 2147241)											
WT2519848-001	Anonymous	Mercury	7439-97-6	E524	0.031	mg/kg	0.037	0.037	0.0006	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2162816)						
Moisture	---	E144	0.5	%	<0.50	---
Metals (QCLot: 2147240)						
Aluminum	7429-90-5	E464	2	mg/kg	<2.0	---
Antimony	7440-36-0	E464	0.01	mg/kg	<0.010	---
Arsenic	7440-38-2	E464	0.02	mg/kg	<0.0200	---
Barium	7440-39-3	E464	0.1	mg/kg	<0.10	---
Beryllium	7440-41-7	E464	0.01	mg/kg	<0.010	---
Bismuth	7440-69-9	E464	0.01	mg/kg	<0.010	---
Boron	7440-42-8	E464	1	mg/kg	<1.0	---
Cadmium	7440-43-9	E464	0.005	mg/kg	<0.0050	---
Calcium	7440-70-2	E464	25	mg/kg	<25	---
Chromium	7440-47-3	E464	0.05	mg/kg	<0.050	---
Cobalt	7440-48-4	E464	0.02	mg/kg	<0.020	---
Copper	7440-50-8	E464	0.1	mg/kg	<0.10	---
Iron	7439-89-6	E464	2.5	mg/kg	<2.5	---
Lead	7439-92-1	E464	0.02	mg/kg	<0.020	---
Lithium	7439-93-2	E464	0.5	mg/kg	<0.50	---
Magnesium	7439-95-4	E464	5	mg/kg	<5.0	---
Manganese	7439-96-5	E464	0.5	mg/kg	<0.50	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	<0.020	---
Nickel	7440-02-0	E464	0.2	mg/kg	<0.20	---
Phosphorus	7723-14-0	E464	10	mg/kg	<10	---
Potassium	7440-09-7	E464	20	mg/kg	<20	---
Rubidium	7440-17-7	E464	0.1	mg/kg	<0.10	---
Selenium	7782-49-2	E464	0.05	mg/kg	<0.050	---
Silver	7440-22-4	E464	0.005	mg/kg	<0.0050	---
Sodium	7440-23-5	E464	25	mg/kg	<25	---
Strontium	7440-24-6	E464	0.1	mg/kg	<0.10	---
Tellurium	13494-80-9	E464	0.1	mg/kg	<0.10	---
Thallium	7440-28-0	E464	0.002	mg/kg	<0.0020	---
Tin	7440-31-5	E464	0.1	mg/kg	<0.10	---
Tungsten	7440-33-7	E464	0.1	mg/kg	<0.10	---

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Work Order : WT2519900
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: **Biota**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2147240) - continued						
Uranium	7440-61-1	E464	0.02	mg/kg	<0.020	----
Vanadium	7440-62-2	E464	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E464	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E464	0.3	mg/kg	<0.30	----
Metals (QCLot: 2147241)						
Mercury	7439-97-6	E524	0.0313	mg/kg	<0.031	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2162816)									
Moisture	---	E144	0.5	%	50 %	101	90.0	110	---
Metals (QCLot: 2147240)									
Aluminum	7429-90-5	E464	2	mg/kg	10 mg/kg	89.1	70.0	130	---
Antimony	7440-36-0	E464	0.01	mg/kg	5 mg/kg	90.5	70.0	130	---
Arsenic	7440-38-2	E464	0.02	mg/kg	5 mg/kg	86.5	70.0	130	---
Barium	7440-39-3	E464	0.1	mg/kg	1.25 mg/kg	84.1	70.0	130	---
Beryllium	7440-41-7	E464	0.01	mg/kg	0.5 mg/kg	82.2	70.0	130	---
Bismuth	7440-69-9	E464	0.01	mg/kg	5 mg/kg	84.2	70.0	130	---
Boron	7440-42-8	E464	1	mg/kg	5 mg/kg	83.0	70.0	130	---
Cadmium	7440-43-9	E464	0.005	mg/kg	0.5 mg/kg	82.6	70.0	130	---
Calcium	7440-70-2	E464	25	mg/kg	250 mg/kg	85.7	70.0	130	---
Chromium	7440-47-3	E464	0.05	mg/kg	1.25 mg/kg	86.5	70.0	130	---
Cobalt	7440-48-4	E464	0.02	mg/kg	1.25 mg/kg	85.9	70.0	130	---
Copper	7440-50-8	E464	0.1	mg/kg	1.25 mg/kg	85.1	70.0	130	---
Iron	7439-89-6	E464	2.5	mg/kg	5 mg/kg	85.1	70.0	130	---
Lead	7439-92-1	E464	0.02	mg/kg	2.5 mg/kg	81.3	70.0	130	---
Lithium	7439-93-2	E464	0.5	mg/kg	1.04 mg/kg	81.4	70.0	130	---
Magnesium	7439-95-4	E464	5	mg/kg	250 mg/kg	97.6	70.0	130	---
Manganese	7439-96-5	E464	0.5	mg/kg	1.25 mg/kg	86.0	70.0	130	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	1.25 mg/kg	85.8	70.0	130	---
Nickel	7440-02-0	E464	0.2	mg/kg	2.5 mg/kg	85.4	70.0	130	---
Phosphorus	7723-14-0	E464	10	mg/kg	50 mg/kg	84.5	70.0	130	---
Potassium	7440-09-7	E464	20	mg/kg	250 mg/kg	90.6	70.0	130	---
Rubidium	7440-17-7	E464	0.1	mg/kg	0.5 mg/kg	84.9	70.0	130	---
Selenium	7782-49-2	E464	0.05	mg/kg	5 mg/kg	71.7	70.0	130	---
Silver	7440-22-4	E464	0.005	mg/kg	0.5 mg/kg	74.8	70.0	130	---
Sodium	7440-23-5	E464	25	mg/kg	250 mg/kg	95.8	70.0	130	---
Strontium	7440-24-6	E464	0.1	mg/kg	1.25 mg/kg	81.6	70.0	130	---
Tellurium	13494-80-9	E464	0.1	mg/kg	0.5 mg/kg	72.7	70.0	130	---
Thallium	7440-28-0	E464	0.002	mg/kg	5 mg/kg	81.4	70.0	130	---
Tin	7440-31-5	E464	0.1	mg/kg	2.5 mg/kg	82.2	70.0	130	---
Tungsten	7440-33-7	E464	0.1	mg/kg	0.5 mg/kg	81.5	70.0	130	---



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2147240) - continued									
Uranium	7440-61-1	E464	0.02	mg/kg	0.025 mg/kg	77.0	70.0	130	----
Vanadium	7440-62-2	E464	0.1	mg/kg	2.5 mg/kg	86.6	70.0	130	----
Zinc	7440-66-6	E464	0.5	mg/kg	2.5 mg/kg	82.0	70.0	130	----
Zirconium	7440-67-7	E464	0.3	mg/kg	0.5 mg/kg	75.5	70.0	130	----
Metals (QCLot: 2147241)									
Mercury	7439-97-6	E524	0.0313	mg/kg	0.083 mg/kg	92.6	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Biota

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 2147240)										
WT2519848-001	Anonymous	Aluminum	7429-90-5	E464	ND mg/kg	----	ND	70.0	130	----
		Antimony	7440-36-0	E464	2.02 mg/kg	4.16 mg/kg	48.5	70.0	130	K
		Arsenic	7440-38-2	E464	4.50 mg/kg	4.98 mg/kg	90.2	70.0	130	----
		Barium	7440-39-3	E464	ND mg/kg	----	ND	70.0	130	----
		Beryllium	7440-41-7	E464	0.437 mg/kg	0.498 mg/kg	87.7	70.0	130	----
		Bismuth	7440-69-9	E464	3.99 mg/kg	4.98 mg/kg	80.0	70.0	130	----
		Boron	7440-42-8	E464	4.2 mg/kg	4.98 mg/kg	85.3	70.0	130	----
		Cadmium	7440-43-9	E464	0.413 mg/kg	0.498 mg/kg	83.0	70.0	130	----
		Calcium	7440-70-2	E464	ND mg/kg	----	ND	70.0	130	----
		Chromium	7440-47-3	E464	ND mg/kg	----	ND	70.0	130	----
		Cobalt	7440-48-4	E464	1.08 mg/kg	1.25 mg/kg	86.9	70.0	130	----
		Copper	7440-50-8	E464	ND mg/kg	----	ND	70.0	130	----
		Iron	7439-89-6	E464	ND mg/kg	----	ND	70.0	130	----
		Lead	7439-92-1	E464	ND mg/kg	----	ND	70.0	130	----
		Lithium	7439-93-2	E464	ND mg/kg	----	ND	70.0	130	----
		Magnesium	7439-95-4	E464	ND mg/kg	----	ND	70.0	130	----
		Manganese	7439-96-5	E464	ND mg/kg	----	ND	70.0	130	----
		Molybdenum	7439-98-7	E464	1.07 mg/kg	1.25 mg/kg	86.1	70.0	130	----
		Nickel	7440-02-0	E464	ND mg/kg	----	ND	70.0	130	----
		Phosphorus	7723-14-0	E464	ND mg/kg	----	ND	70.0	130	----
		Potassium	7440-09-7	E464	ND mg/kg	----	ND	70.0	130	----
		Rubidium	7440-17-7	E464	ND mg/kg	----	ND	70.0	130	----
		Selenium	7782-49-2	E464	4.13 mg/kg	4.98 mg/kg	82.8	70.0	130	----
		Silver	7440-22-4	E464	0.364 mg/kg	0.498 mg/kg	73.1	70.0	130	----
		Sodium	7440-23-5	E464	255 mg/kg	249 mg/kg	102	70.0	130	----
		Strontium	7440-24-6	E464	ND mg/kg	----	ND	70.0	130	----
		Tellurium	13494-80-9	E464	0.37 mg/kg	0.498 mg/kg	75.2	70.0	130	----
		Thallium	7440-28-0	E464	4.02 mg/kg	4.98 mg/kg	80.7	70.0	130	----
		Tin	7440-31-5	E464	1.83 mg/kg	2.49 mg/kg	73.6	70.0	130	----
		Tungsten	7440-33-7	E464	0.19 mg/kg	0.416 mg/kg	44.8	70.0	130	K
		Uranium	7440-61-1	E464	ND mg/kg	----	ND	70.0	130	----
		Vanadium	7440-62-2	E464	ND mg/kg	----	ND	70.0	130	----
		Zinc	7440-66-6	E464	ND mg/kg	----	ND	70.0	130	----
		Zirconium	7440-67-7	E464	ND mg/kg	----	ND	70.0	130	----
Metals (QCLot: 2147241)										
WT2519848-001	Anonymous	Mercury	7439-97-6	E524	0.070 mg/kg	0.083 mg/kg	83.6	70.0	130	----

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Work Order : WT2519900
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Qualifiers

Qualifier	Description
K	<i>Matrix Spike recovery outside ALS DQO due to sample matrix effects.</i>



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Canada Toll Free: 1 800 688 9878

Chain of Custody (COC) / Analytical Request Form

COC NU

Environmental Division
Waterloo
Work Order Reference
WT2519900



519 886 8911

Main form containing sections: Report To, Company, Contact, Street, Postal Code, Invoice To, Company, Accounts Payable, ALS Account # / Quote #, Job #, PO / AFE, ALS Lab Work Order #, Sample Identification, Sample Location, Sampling Date, Time, Field Matrix, NUMBER OF CONTAINERS, Turnaround Time (TAT) Request, and SAMPLE RECEIPT DETAILS.

PLEASE TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in the form (EGBI, V, B) by the use of this form the user acknowledges and agrees with the terms and conditions as specified on the back page of the white - report copy.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Released by: Bailey Durant Date: 22-Jul-2025 Time: 08:00
Received by: INITIAL SHIPMENT RECEPTION (lab use only) Date:
Time:
Received by: FINAL SHIPMENT RECEPTION (lab use only) Date: 23 July 2025 Time: 18:51



CERTIFICATE OF ANALYSIS

Work Order	: WT2519903		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 14-Aug-2025
Sampler	: BD/AL	Issue Date	: 28-Aug-2025 08:27
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu		Metals, Burlington, Ontario
Navdeep Buttar		Organics, Burlington, Ontario
Sabir Ahmed		Metals, Burlington, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-13-L_2025 ----	MS-14-L_2025 ----	MS-22-L_2025 ----	MS-23-L_2025 ----	MS-24-L_2025 ----
					Client sampling date / time	17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519903-001	WT2519903-002	WT2519903-003	WT2519903-004	WT2519903-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	41.4	39.0	58.0	32.5	25.4	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	1860	1880	337	1520	2500	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	0.010	<0.010	<0.010	<0.010	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.320	0.442	0.0980	0.299	0.362	
Barium	7440-39-3	E464/BU	0.10	mg/kg	19.5	22.9	14.3	23.0	37.9	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.066	0.079	0.014	0.068	0.114	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.034	0.044	<0.010	0.025	0.021	
Boron	7440-42-8	E464/BU	1.0	mg/kg	2.0	2.4	<1.0	2.9	7.2	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0674	0.0857	0.197	0.207	0.133	
Calcium	7440-70-2	E464/BU	25	mg/kg	13600	15000	10300	11400	7460	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	4.61	5.07	0.836	3.46	6.40	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	1.02	1.19	0.300	0.904	1.23	
Copper	7440-50-8	E464/BU	0.10	mg/kg	2.73	3.30	1.72	2.63	3.13	
Iron	7439-89-6	E464/BU	2.5	mg/kg	6590	8980	1640	4050	3650	
Lead	7439-92-1	E464/BU	0.020	mg/kg	1.51	1.64	0.616	2.84	3.45	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	1.16	1.79	<0.50	1.92	3.84	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	2540	2420	1400	1710	1960	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	59.0	72.2	57.4	64.5	70.8	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.049	0.053	0.047	0.058	0.063	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.464	0.468	0.163	0.245	0.115	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-13-L_2025 ----	MS-14-L_2025 ----	MS-22-L_2025 ----	MS-23-L_2025 ----	MS-24-L_2025 ----
					Client sampling date / time	17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519903-001	WT2519903-002	WT2519903-003	WT2519903-004	WT2519903-005	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	3.08	3.49	0.74	2.25	3.53	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	577	746	434	486	583	
Potassium	7440-09-7	E464/BU	20	mg/kg	2140	2440	1660	1500	1740	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	7.58	8.71	3.68	6.68	10.9	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.100	0.110	0.106	0.126	0.119	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0146	0.0207	0.0111	0.0142	0.0184	
Sodium	7440-23-5	E464/BU	25	mg/kg	348	309	295	330	323	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	5.75	8.05	10.3	8.52	12.4	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0301	0.0292	0.0073	0.0270	0.0498	
Tin	7440-31-5	E464/BU	0.10	mg/kg	<0.10	0.10	<0.10	<0.10	0.21	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	<0.10	0.12	<0.10	<0.10	<0.10	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.258	0.294	0.228	0.225	0.465	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	2.72	3.32	0.49	3.14	6.14	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	18.1	20.8	33.3	28.7	24.2	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	1.62	1.86	0.44	2.48	3.49	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-24-L_2025R	MS-25-L_2025	MP-12-L_2025	MP-13-L_2025	MP-14-L_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	17-Jul-2025 14:15	17-Jul-2025 11:00	18-Jul-2025 15:30	18-Jul-2025 12:45	18-Jul-2025 14:05	
					WT2519903-006	WT2519903-007	WT2519903-008	WT2519903-009	WT2519903-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/BU	0.50	%	24.8	32.9	19.2	19.4	17.3	
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	1460	1300	1330	963	630	
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.236	0.302	0.431	0.278	0.115	
Barium	7440-39-3	E464/BU	0.10	mg/kg	33.2	17.0	11.2	8.65	7.93	
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.075	0.045	0.066	0.051	0.025	
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.013	0.027	0.022	0.017	<0.010	
Boron	7440-42-8	E464/BU	1.0	mg/kg	3.9	1.9	3.7	2.9	1.5	
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.103	0.0732	0.0506	0.0447	0.0275	
Calcium	7440-70-2	E464/BU	25	mg/kg	7380	17400	41900	34200	23300	
Chromium	7440-47-3	E464/BU	0.050	mg/kg	3.11	5.89	2.69	1.68	0.982	
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	0.828	0.889	0.687	0.470	0.271	
Copper	7440-50-8	E464/BU	0.10	mg/kg	2.09	2.68	1.81	1.59	1.30	
Iron	7439-89-6	E464/BU	2.5	mg/kg	2060	5580	4360	3660	1720	
Lead	7439-92-1	E464/BU	0.020	mg/kg	2.12	1.32	2.35	2.66	0.837	
Lithium	7439-93-2	E464/BU	0.50	mg/kg	2.17	1.14	2.64	1.89	0.69	
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	1570	2250	1850	1580	1160	
Manganese	7439-96-5	E464/BU	0.50	mg/kg	58.2	45.0	49.9	35.9	26.7	
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.049	0.053	0.047	0.044	0.047	
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.073	0.499	0.269	0.259	0.150	



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MS-24-L_2025R ----	MS-25-L_2025 ----	MP-12-L_2025 ----	MP-13-L_2025 ----	MP-14-L_2025 ----
					Client sampling date / time	17-Jul-2025 14:15	17-Jul-2025 11:00	18-Jul-2025 15:30	18-Jul-2025 12:45	18-Jul-2025 14:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519903-006	WT2519903-007	WT2519903-008	WT2519903-009	WT2519903-010	
					Result	Result	Result	Result	Result	
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	2.24	4.22	1.70	1.17	0.71	
Phosphorus	7723-14-0	E464/BU	10	mg/kg	526	549	350	404	222	
Potassium	7440-09-7	E464/BU	20	mg/kg	1690	1670	1420	1470	1600	
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	7.86	5.56	6.18	5.29	4.98	
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.090	0.105	0.104	0.082	<0.050	
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0126	0.0146	0.0176	0.0152	0.0078	
Sodium	7440-23-5	E464/BU	25	mg/kg	374	247	287	333	394	
Strontium	7440-24-6	E464/BU	0.10	mg/kg	12.2	7.49	22.0	18.4	14.5	
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0289	0.0225	0.0256	0.0186	0.0116	
Tin	7440-31-5	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.327	0.156	0.980	0.834	0.362	
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	3.43	2.37	2.68	1.77	0.82	
Zinc	7440-66-6	E464/BU	0.50	mg/kg	22.6	14.9	11.6	11.0	10.1	
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	1.54	1.32	2.23	1.45	0.43	

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-15-L_2025	MP-29-L_2025	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519903-011	WT2519903-012	----	----	----	----
					Result	Result	----	----	----	----
Physical Tests										
Moisture	----	E144/BU	0.50	%	16.8	16.4	----	----	----	----
Metals										
Aluminum	7429-90-5	E464/BU	2.0	mg/kg	919	633	----	----	----	----
Antimony	7440-36-0	E464/BU	0.010	mg/kg	<0.010	<0.010	----	----	----	----
Arsenic	7440-38-2	E464/BU	0.0200	mg/kg	0.214	0.180	----	----	----	----
Barium	7440-39-3	E464/BU	0.10	mg/kg	8.70	7.97	----	----	----	----
Beryllium	7440-41-7	E464/BU	0.010	mg/kg	0.037	0.026	----	----	----	----
Bismuth	7440-69-9	E464/BU	0.010	mg/kg	0.012	<0.010	----	----	----	----
Boron	7440-42-8	E464/BU	1.0	mg/kg	2.9	1.8	----	----	----	----
Cadmium	7440-43-9	E464/BU	0.0050	mg/kg	0.0315	0.0344	----	----	----	----
Calcium	7440-70-2	E464/BU	25	mg/kg	35200	21400	----	----	----	----
Chromium	7440-47-3	E464/BU	0.050	mg/kg	1.37	0.997	----	----	----	----
Cobalt	7440-48-4	E464/BU	0.020	mg/kg	0.333	0.271	----	----	----	----
Copper	7440-50-8	E464/BU	0.10	mg/kg	1.33	1.36	----	----	----	----
Iron	7439-89-6	E464/BU	2.5	mg/kg	2340	2420	----	----	----	----
Lead	7439-92-1	E464/BU	0.020	mg/kg	1.23	0.880	----	----	----	----
Lithium	7439-93-2	E464/BU	0.50	mg/kg	1.60	0.75	----	----	----	----
Magnesium	7439-95-4	E464/BU	5.0	mg/kg	1790	1350	----	----	----	----
Manganese	7439-96-5	E464/BU	0.50	mg/kg	30.7	28.9	----	----	----	----
Mercury	7439-97-6	E524/BU	0.031	mg/kg	0.066	0.044	----	----	----	----
Molybdenum	7439-98-7	E464/BU	0.020	mg/kg	0.247	0.197	----	----	----	----



Analytical Results

Sub-Matrix: Plant
 (Matrix: Biota)

					Client sample ID	MP-15-L_2025	MP-29-L_2025	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519903-011	WT2519903-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Nickel	7440-02-0	E464/BU	0.20	mg/kg	0.90	0.74	----	----	----	----
Phosphorus	7723-14-0	E464/BU	10	mg/kg	448	388	----	----	----	----
Potassium	7440-09-7	E464/BU	20	mg/kg	1580	1520	----	----	----	----
Rubidium	7440-17-7	E464/BU	0.10	mg/kg	4.79	4.40	----	----	----	----
Selenium	7782-49-2	E464/BU	0.050	mg/kg	0.071	0.065	----	----	----	----
Silver	7440-22-4	E464/BU	0.0050	mg/kg	0.0109	0.0119	----	----	----	----
Sodium	7440-23-5	E464/BU	25	mg/kg	290	343	----	----	----	----
Strontium	7440-24-6	E464/BU	0.10	mg/kg	19.4	13.0	----	----	----	----
Tellurium	13494-80-9	E464/BU	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Thallium	7440-28-0	E464/BU	0.0020	mg/kg	0.0172	0.0124	----	----	----	----
Tin	7440-31-5	E464/BU	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Tungsten	7440-33-7	E464/BU	0.10	mg/kg	<0.10	<0.10	----	----	----	----
Uranium	7440-61-1	E464/BU	0.020	mg/kg	0.275	0.456	----	----	----	----
Vanadium	7440-62-2	E464/BU	0.10	mg/kg	1.39	0.95	----	----	----	----
Zinc	7440-66-6	E464/BU	0.50	mg/kg	10.1	10.8	----	----	----	----
Zirconium	7440-67-7	E464/BU	0.30	mg/kg	1.09	0.77	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519903</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 10</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 28-Aug-2025 08:26</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Biota**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Metals	WT2519903-001	MS-13-L_2025	Molybdenum	7439-98-7	E464	25.3 % DUP-H	20%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-12-L_2025	E524	18-Jul-2025	13-Aug-2025	28 days	26 days	✓	18-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-13-L_2025	E524	18-Jul-2025	13-Aug-2025	28 days	26 days	✓	18-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-14-L_2025	E524	18-Jul-2025	13-Aug-2025	28 days	26 days	✓	18-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-15-L_2025	E524	18-Jul-2025	13-Aug-2025	28 days	26 days	✓	18-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MP-29-L_2025	E524	18-Jul-2025	13-Aug-2025	28 days	26 days	✓	18-Aug-2025	28 days	26 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-13-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-14-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT



Matrix: **Biota** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-22-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-23-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-24-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-24-L_2025R	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Mercury in Tissues by CVAAS (DRY units, Routine)											
LDPE bag MS-25-L_2025	E524	17-Jul-2025	13-Aug-2025	28 days	27 days	✓	18-Aug-2025	28 days	27 days	*	EHT
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-12-L_2025	E464	18-Jul-2025	13-Aug-2025	180 days	26 days	✓	14-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-13-L_2025	E464	18-Jul-2025	13-Aug-2025	180 days	26 days	✓	14-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-14-L_2025	E464	18-Jul-2025	13-Aug-2025	180 days	26 days	✓	14-Aug-2025	180 days	26 days	✓	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-15-L_2025	E464	18-Jul-2025	13-Aug-2025	180 days	26 days	✓	14-Aug-2025	180 days	26 days	✓	



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MP-29-L_2025	E464	18-Jul-2025	13-Aug-2025	180 days	26 days	✔	14-Aug-2025	180 days	26 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-13-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-14-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-22-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-23-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-24-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-24-L_2025R	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Metals : Metals in Tissue by ICPMS Analysis (DRY units, Routine)											
LDPE bag MS-25-L_2025	E464	17-Jul-2025	13-Aug-2025	180 days	27 days	✔	14-Aug-2025	180 days	27 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-12-L_2025	E144	18-Jul-2025	----	----	----		15-Aug-2025	----	----		



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-13-L_2025	E144	18-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-14-L_2025	E144	18-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-15-L_2025	E144	18-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-29-L_2025	E144	18-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-13-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-14-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-22-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-23-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-24-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----		



Matrix: **Biota** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-24-L_2025R	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-25-L_2025	E144	17-Jul-2025	----	----	----		15-Aug-2025	----	----	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Biota**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content by Gravimetry	E144	2163374	1	12	8.3	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2158098	1	12	8.3	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2158097	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
Moisture Content by Gravimetry	E144	2163374	1	12	8.3	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2158098	1	12	8.3	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2158097	1	12	8.3	5.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2163374	1	12	8.3	5.0	✔
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2158098	1	12	8.3	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2158097	1	12	8.3	5.0	✔
Matrix Spikes (MS)							
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464	2158098	1	12	8.3	5.0	✔
Mercury in Tissues by CVAAS (DRY units, Routine)	E524	2158097	1	12	8.3	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Moisture Content by Gravimetry	E144 ALS Environmental - Burlington	Biota	ASTM Method D4638-16 (mod)	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Tissue by ICPMS Analysis (DRY units, Routine)	E464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 6020B (analysis)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process. Instrumental analysis is performed via collision-reaction cell ICPMS. Data is reported on a dry weight basis.
Mercury in Tissues by CVAAS (DRY units, Routine)	E524 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation) and EPA Method 7470A (analytical)	After microwave digestion, a sub-sample is re-digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA. Data is reported on a dry weight basis.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals and Mercury in Tissues - Digestion	EP464 ALS Environmental - Burlington	Biota	EPA Method 3052 (preparation)	Tissue samples are homogenized and sub-sampled, then digested using a closed-vessel microwave process.

QUALITY CONTROL REPORT

Work Order	: WT2519903	Page	: 1 of 10
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 23-Jul-2025 09:30
PO	: 4500156571	Date Analysis Commenced	: 13-Aug-2025
C-O-C number	: ----	Issue Date	: 28-Aug-2025 08:26
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Gamini Nadu	Analyst	Burlington Metals, Burlington, Ontario
Navdeep Buttar		Burlington Organics, Burlington, Ontario
Sabir Ahmed	Analyst	Burlington Metals, Burlington, Ontario

Page : 2 of 10
Work Order : WT2519903
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2163374)											
WT2519903-001	MS-13-L_2025	Moisture	----	E144	0.50	%	41.4	42.9	3.60%	20%	----
Metals (QC Lot: 2158097)											
WT2519903-001	MS-13-L_2025	Mercury	7439-97-6	E524	0.031	mg/kg	0.049	0.055	0.007	Diff <2x LOR	----
Metals (QC Lot: 2158098)											
WT2519903-001	MS-13-L_2025	Aluminum	7429-90-5	E464	14.2	mg/kg	1860	1570	16.9%	20%	----
		Antimony	7440-36-0	E464	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E464	0.0200	mg/kg	0.320	0.295	8.18%	20%	----
		Barium	7440-39-3	E464	0.10	mg/kg	19.5	19.8	1.77%	20%	----
		Beryllium	7440-41-7	E464	0.010	mg/kg	0.066	0.061	0.004	Diff <2x LOR	----
		Bismuth	7440-69-9	E464	0.010	mg/kg	0.034	0.032	0.001	Diff <2x LOR	----
		Boron	7440-42-8	E464	1.0	mg/kg	2.0	2.0	0.08	Diff <2x LOR	----
		Cadmium	7440-43-9	E464	0.0050	mg/kg	0.0674	0.0733	8.43%	20%	----
		Calcium	7440-70-2	E464	177	mg/kg	13600	11600	16.2%	20%	----
		Chromium	7440-47-3	E464	0.050	mg/kg	4.61	4.23	8.59%	20%	----
		Cobalt	7440-48-4	E464	0.020	mg/kg	1.02	0.996	2.72%	20%	----
		Copper	7440-50-8	E464	0.10	mg/kg	2.73	2.63	3.84%	20%	----
		Iron	7439-89-6	E464	2.5	mg/kg	6590	6040	8.65%	20%	----
		Lead	7439-92-1	E464	0.020	mg/kg	1.51	1.40	7.46%	20%	----
		Lithium	7439-93-2	E464	0.50	mg/kg	1.16	1.03	0.13	Diff <2x LOR	----
		Magnesium	7439-95-4	E464	35.4	mg/kg	2540	2260	11.6%	20%	----
		Manganese	7439-96-5	E464	0.50	mg/kg	59.0	60.4	2.31%	20%	----
		Molybdenum	7439-98-7	E464	0.020	mg/kg	0.464	0.360	25.3%	20%	DUP-H
		Nickel	7440-02-0	E464	0.20	mg/kg	3.08	3.03	1.73%	20%	----
		Phosphorus	7723-14-0	E464	10	mg/kg	577	590	2.29%	20%	----
		Potassium	7440-09-7	E464	20	mg/kg	2140	2190	2.38%	20%	----
		Rubidium	7440-17-7	E464	0.10	mg/kg	7.58	7.77	2.50%	20%	----
		Selenium	7782-49-2	E464	0.050	mg/kg	0.100	0.100	0.0002	Diff <2x LOR	----
		Silver	7440-22-4	E464	0.0050	mg/kg	0.0146	0.0143	0.0003	Diff <2x LOR	----
		Sodium	7440-23-5	E464	25	mg/kg	348	341	2.07%	20%	----
		Strontium	7440-24-6	E464	0.10	mg/kg	5.75	5.83	1.38%	20%	----



Sub-Matrix: Biota					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2158098) - continued											
WT2519903-001	MS-13-L_2025	Tellurium	13494-80-9	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Thallium	7440-28-0	E464	0.0020	mg/kg	0.0301	0.0276	8.60%	20%	----
		Tin	7440-31-5	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Tungsten	7440-33-7	E464	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Uranium	7440-61-1	E464	0.020	mg/kg	0.258	0.216	17.8%	20%	----
		Vanadium	7440-62-2	E464	0.10	mg/kg	2.72	2.55	6.58%	20%	----
		Zinc	7440-66-6	E464	0.50	mg/kg	18.1	18.2	0.551%	20%	----
		Zirconium	7440-67-7	E464	0.30	mg/kg	1.62	1.62	0.003	Diff <2x LOR	----

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Biota

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2163374)						
Moisture	---	E144	0.5	%	<0.50	---
Metals (QCLot: 2158097)						
Mercury	7439-97-6	E524	0.0313	mg/kg	<0.031	---
Metals (QCLot: 2158098)						
Aluminum	7429-90-5	E464	2	mg/kg	<2.0	---
Antimony	7440-36-0	E464	0.01	mg/kg	<0.010	---
Arsenic	7440-38-2	E464	0.02	mg/kg	<0.0200	---
Barium	7440-39-3	E464	0.1	mg/kg	<0.10	---
Beryllium	7440-41-7	E464	0.01	mg/kg	<0.010	---
Bismuth	7440-69-9	E464	0.01	mg/kg	<0.010	---
Boron	7440-42-8	E464	1	mg/kg	<1.0	---
Cadmium	7440-43-9	E464	0.005	mg/kg	<0.0050	---
Calcium	7440-70-2	E464	25	mg/kg	<25	---
Chromium	7440-47-3	E464	0.05	mg/kg	<0.050	---
Cobalt	7440-48-4	E464	0.02	mg/kg	<0.020	---
Copper	7440-50-8	E464	0.1	mg/kg	<0.10	---
Iron	7439-89-6	E464	2.5	mg/kg	2.9	---
Lead	7439-92-1	E464	0.02	mg/kg	<0.020	---
Lithium	7439-93-2	E464	0.5	mg/kg	<0.50	---
Magnesium	7439-95-4	E464	5	mg/kg	<5.0	---
Manganese	7439-96-5	E464	0.5	mg/kg	<0.50	---
Molybdenum	7439-98-7	E464	0.02	mg/kg	<0.020	---
Nickel	7440-02-0	E464	0.2	mg/kg	<0.20	---
Phosphorus	7723-14-0	E464	10	mg/kg	<10	---
Potassium	7440-09-7	E464	20	mg/kg	<20	---
Rubidium	7440-17-7	E464	0.1	mg/kg	<0.10	---
Selenium	7782-49-2	E464	0.05	mg/kg	<0.050	---
Silver	7440-22-4	E464	0.005	mg/kg	<0.0050	---
Sodium	7440-23-5	E464	25	mg/kg	<25	---
Strontium	7440-24-6	E464	0.1	mg/kg	<0.10	---
Tellurium	13494-80-9	E464	0.1	mg/kg	<0.10	---
Thallium	7440-28-0	E464	0.002	mg/kg	<0.0020	---



Sub-Matrix: **Biota**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2158098) - continued						
Tin	7440-31-5	E464	0.1	mg/kg	<0.10	----
Tungsten	7440-33-7	E464	0.1	mg/kg	<0.10	----
Uranium	7440-61-1	E464	0.02	mg/kg	<0.020	----
Vanadium	7440-62-2	E464	0.1	mg/kg	<0.10	----
Zinc	7440-66-6	E464	0.5	mg/kg	<0.50	----
Zirconium	7440-67-7	E464	0.3	mg/kg	<0.30	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Biota					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	
Physical Tests (QCLot: 2163374)									
Moisture	---	E144	0.5	%	50 %	101	90.0	110	----
Metals (QCLot: 2158097)									
Mercury	7439-97-6	E524	0.0313	mg/kg	0.083 mg/kg	81.2	70.0	130	----
Metals (QCLot: 2158098)									
Aluminum	7429-90-5	E464	2	mg/kg	10 mg/kg	83.2	70.0	130	----
Antimony	7440-36-0	E464	0.01	mg/kg	5 mg/kg	82.5	70.0	130	----
Arsenic	7440-38-2	E464	0.02	mg/kg	5 mg/kg	82.2	70.0	130	----
Barium	7440-39-3	E464	0.1	mg/kg	1.25 mg/kg	84.5	70.0	130	----
Beryllium	7440-41-7	E464	0.01	mg/kg	0.5 mg/kg	75.8	70.0	130	----
Bismuth	7440-69-9	E464	0.01	mg/kg	5 mg/kg	82.2	70.0	130	----
Boron	7440-42-8	E464	1	mg/kg	5 mg/kg	75.2	70.0	130	----
Cadmium	7440-43-9	E464	0.005	mg/kg	0.5 mg/kg	82.6	70.0	130	----
Calcium	7440-70-2	E464	25	mg/kg	250 mg/kg	82.6	70.0	130	----
Chromium	7440-47-3	E464	0.05	mg/kg	1.25 mg/kg	85.0	70.0	130	----
Cobalt	7440-48-4	E464	0.02	mg/kg	1.25 mg/kg	80.7	70.0	130	----
Copper	7440-50-8	E464	0.1	mg/kg	1.25 mg/kg	87.5	70.0	130	----
Iron	7439-89-6	E464	2.5	mg/kg	5 mg/kg	88.5	70.0	130	----
Lead	7439-92-1	E464	0.02	mg/kg	2.5 mg/kg	82.1	70.0	130	----
Lithium	7439-93-2	E464	0.5	mg/kg	1.04 mg/kg	74.8	70.0	130	----
Magnesium	7439-95-4	E464	5	mg/kg	250 mg/kg	90.6	70.0	130	----
Manganese	7439-96-5	E464	0.5	mg/kg	1.25 mg/kg	83.7	70.0	130	----
Molybdenum	7439-98-7	E464	0.02	mg/kg	1.25 mg/kg	79.6	70.0	130	----
Nickel	7440-02-0	E464	0.2	mg/kg	2.5 mg/kg	82.1	70.0	130	----
Phosphorus	7723-14-0	E464	10	mg/kg	50 mg/kg	82.0	70.0	130	----
Potassium	7440-09-7	E464	20	mg/kg	250 mg/kg	86.8	70.0	130	----
Rubidium	7440-17-7	E464	0.1	mg/kg	0.5 mg/kg	81.8	70.0	130	----
Selenium	7782-49-2	E464	0.05	mg/kg	5 mg/kg	75.7	70.0	130	----
Silver	7440-22-4	E464	0.005	mg/kg	0.5 mg/kg	70.5	70.0	130	----
Sodium	7440-23-5	E464	25	mg/kg	250 mg/kg	86.3	70.0	130	----
Strontium	7440-24-6	E464	0.1	mg/kg	1.25 mg/kg	84.9	70.0	130	----
Tellurium	13494-80-9	E464	0.1	mg/kg	0.417 mg/kg	83.8	70.0	130	----
Thallium	7440-28-0	E464	0.002	mg/kg	5 mg/kg	84.8	70.0	130	----



Sub-Matrix: Biota

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2158098) - continued									
Tin	7440-31-5	E464	0.1	mg/kg	2.5 mg/kg	78.6	70.0	130	----
Tungsten	7440-33-7	E464	0.1	mg/kg	0.5 mg/kg	78.1	70.0	130	----
Uranium	7440-61-1	E464	0.02	mg/kg	0.025 mg/kg	80.3	70.0	130	----
Vanadium	7440-62-2	E464	0.1	mg/kg	2.5 mg/kg	83.3	70.0	130	----
Zinc	7440-66-6	E464	0.5	mg/kg	2.5 mg/kg	80.2	70.0	130	----
Zirconium	7440-67-7	E464	0.3	mg/kg	0.5 mg/kg	73.0	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Biota

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Metals (QCLot: 2158097)										
WT2519903-001	MS-13-L_2025	Mercury	7439-97-6	E524	0.075 mg/kg	0.083 mg/kg	89.9	70.0	130	----
Metals (QCLot: 2158098)										
WT2519903-001	MS-13-L_2025	Aluminum	7429-90-5	E464	ND mg/kg	----	ND	70.0	130	----
		Antimony	7440-36-0	E464	3.58 mg/kg	4.99 mg/kg	71.6	70.0	130	----
		Arsenic	7440-38-2	E464	4.46 mg/kg	4.99 mg/kg	89.4	70.0	130	----
		Barium	7440-39-3	E464	ND mg/kg	----	ND	70.0	130	----
		Beryllium	7440-41-7	E464	0.396 mg/kg	0.499 mg/kg	79.4	70.0	130	----
		Bismuth	7440-69-9	E464	4.12 mg/kg	4.99 mg/kg	82.6	70.0	130	----
		Boron	7440-42-8	E464	3.8 mg/kg	4.99 mg/kg	75.8	70.0	130	----
		Cadmium	7440-43-9	E464	0.423 mg/kg	0.499 mg/kg	84.7	70.0	130	----
		Calcium	7440-70-2	E464	ND mg/kg	----	ND	70.0	130	----
		Chromium	7440-47-3	E464	ND mg/kg	----	ND	70.0	130	----
		Cobalt	7440-48-4	E464	1.04 mg/kg	1.25 mg/kg	83.0	70.0	130	----
		Copper	7440-50-8	E464	ND mg/kg	----	ND	70.0	130	----
		Iron	7439-89-6	E464	ND mg/kg	----	ND	70.0	130	----
		Lead	7439-92-1	E464	2.11 mg/kg	2.5 mg/kg	84.7	70.0	130	----
		Lithium	7439-93-2	E464	1.32 mg/kg	1.04 mg/kg	127	70.0	130	----
		Magnesium	7439-95-4	E464	ND mg/kg	----	ND	70.0	130	----
		Manganese	7439-96-5	E464	ND mg/kg	----	ND	70.0	130	----
		Molybdenum	7439-98-7	E464	1.02 mg/kg	1.25 mg/kg	81.7	70.0	130	----
		Nickel	7440-02-0	E464	2.20 mg/kg	2.5 mg/kg	88.0	70.0	130	----
		Phosphorus	7723-14-0	E464	ND mg/kg	----	ND	70.0	130	----
		Potassium	7440-09-7	E464	ND mg/kg	----	ND	70.0	130	----
		Rubidium	7440-17-7	E464	ND mg/kg	----	ND	70.0	130	----
		Selenium	7782-49-2	E464	4.25 mg/kg	4.99 mg/kg	85.1	70.0	130	----
		Silver	7440-22-4	E464	0.350 mg/kg	0.499 mg/kg	70.0	70.0	130	----
		Sodium	7440-23-5	E464	212 mg/kg	250 mg/kg	85.0	70.0	130	----
		Strontium	7440-24-6	E464	ND mg/kg	----	ND	70.0	130	----
		Tellurium	13494-80-9	E464	0.36 mg/kg	0.416 mg/kg	86.0	70.0	130	----
		Thallium	7440-28-0	E464	4.06 mg/kg	4.99 mg/kg	81.3	70.0	130	----
		Tin	7440-31-5	E464	1.98 mg/kg	2.5 mg/kg	79.4	70.0	130	----
		Tungsten	7440-33-7	E464	0.34 mg/kg	0.416 mg/kg	81.7	70.0	130	----
		Uranium	7440-61-1	E464	ND mg/kg	----	ND	70.0	130	----
		Vanadium	7440-62-2	E464	2.41 mg/kg	2.5 mg/kg	96.6	70.0	130	----
		Zinc	7440-66-6	E464	ND mg/kg	----	ND	70.0	130	----
		Zirconium	7440-67-7	E464	ND mg/kg	----	ND	70.0	130	----

Page : 10 of 10
Work Order : WT2519903
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING





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Chain of Custody (COC) / Analytical Request Form

COC No:

Environmental Division
Waterloo
Work Order Reference
WT2519903



519 886 6971

Report To: EDI - Environmental Dynamics Inc. 400-479-1040
Company: Daniel Hill
Contact: 400-479-1040
Street: 400-822 5 Avenue SW
City/Province: Calgary, AB
Postal Code: T2P 0M6
Invoice To: Same as Report To
Company: Batifoland Iron Mine Corporation
ALS Account # / Quote #: 25C0127, 2025 Metals Sampling
Job #: 4500198671
ALS Lab Work Order #: WT2519903
Sample Identification (file automatically): (SYS_SAMPLE_CODE)
Sample Location: (SYS_LOC_CODE)
Sampling Date: 17-Jul-2025
Time: 10:10
Field Matrix: L
Number of Containers: AG-DRY-CCMS-N-VA (Metals in Tissue)
MOISTURE-TISS-VA (Physical Test)
Samples on Hold:
Extended Storage Required:
Suspected Hazard:
Shipping Release Date: 22-Jul-2025
Time: 08:00
Received by:
Date:
Initial Shipping Reception (lab use only):
Date:
Time:
Received by:
Final Shipping Reception (lab use only):
Date:
Time:
Received by:

REFERTO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS

Work Order	: WT2519619		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 17-Jul-2025 09:00
C-O-C number	: ----	Date Analysis Commenced	: 22-Jul-2025
Sampler	: BA/AL	Issue Date	: 28-Jul-2025 18:05
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan
Josphin Masihi		Centralized Prep, Waterloo, Ontario
Walt Kippenhuck		Metals, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

PSAL: Samples 004; 008-010: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.

RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-01-S_2025 ----	TR-02-S_2025 ----	TR-03-S_2025 ----	TR-05-S_2025 ----	TR-07-S_2025 ----
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-001	WT2519619-002	WT2519619-003	WT2519619-004	WT2519619-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	6.16	9.09	4.64	20.1	19.9	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	4.76	5.84	6.77	5.35	4.11	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	1.5	<1.0	<1.0	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	4.1	1.7	1.6	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	23.0	18.5	14.8	29.3	17.0	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	56.9	55.6	59.6	45.4	47.3	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	15.6	20.5	17.4	18.6	25.1	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	1.5	1.6	1.3	1.9	3.4	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	1.3	1.5	<1.0	1.6	3.2	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	1.1	1.4	1.3	1.5	2.4	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	1.1	
Passing (0.020mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	2.3	
Passing (0.0312mm)	----	E184/SK	1.0	%	1.3	1.5	<1.0	1.6	3.2	
Passing (0.05mm)	----	E182/SK	1.0	%	2.1	2.6	1.0	2.7	4.8	
Passing (0.063mm)	----	E182/SK	1.0	%	2.4	2.9	1.3	3.1	5.6	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-01-S_2025	TR-02-S_2025	TR-03-S_2025	TR-05-S_2025	TR-07-S_2025
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-001	WT2519619-002	WT2519619-003	WT2519619-004	WT2519619-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	---	E182/SK	1.0	%	2.7	3.2	1.6	3.5	6.2	
Passing (0.125mm)	---	E182/SK	1.0	%	3.9	4.5	2.6	5.0	9.0	
Passing (0.149mm)	---	E182/SK	1.0	%	6.9	8.4	6.0	8.6	13.8	
Passing (0.250mm)	---	E182/SK	1.0	%	19.5	25.0	20.0	23.6	34.1	
Passing (0.420mm)	---	E182/SK	1.0	%	58.2	62.8	60.5	54.5	66.3	
Passing (0.50mm)	---	E182/SK	1.0	%	76.4	80.6	79.6	69.0	81.4	
Passing (0.841mm)	---	E182/SK	1.0	%	92.1	93.3	89.7	89.0	93.0	
Passing (1.0mm)	---	E182/SK	1.0	%	99.4	99.1	94.4	98.3	98.4	
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	---	E181/SK	1.0	%	100.0	100.0	98.5	100.0	100.0	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	---	E181/SK	1.0	%	100.0	100.0	99.4	100.0	100.0	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	557	598	877	828	1150	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.12	<0.10	0.13	0.12	0.17	
Barium	7440-39-3	E440/WT	0.50	mg/kg	2.40	2.77	3.74	3.08	5.07	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-01-S_2025	TR-02-S_2025	TR-03-S_2025	TR-05-S_2025	TR-07-S_2025
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-001	WT2519619-002	WT2519619-003	WT2519619-004	WT2519619-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	
Calcium	7440-70-2	E440/WT	50	mg/kg	134	183	330	414	266	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	2.52	3.28	7.30	3.38	7.40	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	0.40	0.54	0.90	0.74	1.08	
Copper	7440-50-8	E440/WT	0.50	mg/kg	0.62	<0.50	1.29	0.84	0.97	
Iron	7439-89-6	E440/WT	50	mg/kg	1510	1530	3540	2430	4820	
Lead	7439-92-1	E440/WT	0.50	mg/kg	0.70	0.72	0.86	0.72	1.31	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	<2.0	<2.0	2.0	<2.0	<2.0	
Magnesium	7439-95-4	E440/WT	20	mg/kg	405	476	832	712	639	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	8.9	28.1	25.5	37.6	37.8	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0104	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	1.60	1.64	3.83	2.08	2.40	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	50	81	92	97	135	
Potassium	7440-09-7	E440/WT	100	mg/kg	110	<100	180	140	190	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	<50	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-01-S_2025 ----	TR-02-S_2025 ----	TR-03-S_2025 ----	TR-05-S_2025 ----	TR-07-S_2025 ----
					Client sampling date / time	13-Jul-2025 12:00	13-Jul-2025 09:50	12-Jul-2025 12:15	12-Jul-2025 12:45	12-Jul-2025 11:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-001	WT2519619-002	WT2519619-003	WT2519619-004	WT2519619-005	
					Result	Result	Result	Result	Result	
Metals										
Strontium	7440-24-6	E440/WT	0.50	mg/kg	0.98	1.24	1.49	1.37	1.41	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	42.0	44.4	65.9	57.0	114	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.121	0.091	0.154	0.138	0.225	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	2.28	2.32	4.37	3.15	6.02	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	<2.0	<2.0	2.6	2.7	2.8	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-08-S_2025 ----	TR-09-S_2025 ----	TR-11-S_2025 ----	TR-12-S_2025 ----	TR-14-S_2025 ----
					Client sampling date / time	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-006	WT2519619-007	WT2519619-008	WT2519619-009	WT2519619-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	8.05	15.0	22.8	8.52	40.8	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	7.71	7.59	4.61	4.99	4.25	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	37.0	7.5	<1.0	<1.0	<1.0	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-08-S_2025	TR-09-S_2025	TR-11-S_2025	TR-12-S_2025	TR-14-S_2025
					Client sampling date / time	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-006	WT2519619-007	WT2519619-008	WT2519619-009	WT2519619-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	7.7	4.1	<1.0	<1.0	<1.0	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	17.3	8.8	14.5	14.5	12.9	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	15.9	24.6	52.5	54.2	40.3	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	5.1	23.2	23.1	22.3	27.1	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	2.6	8.4	3.3	2.4	6.0	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	7.6	11.8	2.9	3.8	6.8	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	4.4	9.4	2.7	2.4	4.2	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	2.4	2.2	<1.0	<1.0	1.8	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	1.6	1.2	<1.0	<1.0	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	2.4	2.2	<1.0	<1.0	1.8	
Passing (0.005mm)	----	E184/SK	1.0	%	2.9	2.7	<1.0	1.0	2.2	
Passing (0.020mm)	----	E184/SK	1.0	%	7.7	9.5	1.7	2.6	6.8	
Passing (0.0312mm)	----	E184/SK	1.0	%	10.0	14.0	2.9	3.8	8.6	
Passing (0.05mm)	----	E182/SK	1.0	%	13.8	21.6	4.9	5.7	11.5	
Passing (0.063mm)	----	E182/SK	1.0	%	14.4	23.4	5.6	6.2	12.8	
Passing (0.075mm)	----	E182/SK	1.0	%	14.9	25.0	6.2	6.7	13.9	
Passing (0.125mm)	----	E182/SK	1.0	%	17.0	31.8	8.9	8.6	18.8	
Passing (0.149mm)	----	E182/SK	1.0	%	18.0	36.3	13.3	12.9	24.0	
Passing (0.250mm)	----	E182/SK	1.0	%	22.1	55.0	32.0	30.9	45.9	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-08-S_2025	TR-09-S_2025	TR-11-S_2025	TR-12-S_2025	TR-14-S_2025
					Client sampling date / time	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-006	WT2519619-007	WT2519619-008	WT2519619-009	WT2519619-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	---	E182/SK	1.0	%	32.9	71.7	67.7	67.7	73.3	
Passing (0.50mm)	---	E182/SK	1.0	%	38.0	79.6	84.5	85.1	86.2	
Passing (0.841mm)	---	E182/SK	1.0	%	49.8	85.6	94.4	95.0	95.0	
Passing (1.0mm)	---	E182/SK	1.0	%	55.3	88.4	99.0	99.6	99.1	
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	---	E181/SK	1.0	%	63.0	92.5	99.9	100.0	100.0	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	---	E181/SK	1.0	%	73.1	97.1	100.0	100.0	100.0	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	---	E181/SK	1.0	%	78.9	99.1	100.0	100.0	100.0	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	3190	2670	920	602	1250	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	1.30	1.20	0.16	<0.10	0.23	
Barium	7440-39-3	E440/WT	0.50	mg/kg	8.30	7.83	5.04	2.54	6.64	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.20	0.21	<0.10	<0.10	<0.10	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	21.6	26.6	<5.0	<5.0	<5.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-08-S_2025	TR-09-S_2025	TR-11-S_2025	TR-12-S_2025	TR-14-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45	
					WT2519619-006	WT2519619-007	WT2519619-008	WT2519619-009	WT2519619-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	62400	66300	569	310	363	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	12.0	7.51	5.12	2.93	8.60	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	2.51	1.90	1.07	0.28	0.62	
Copper	7440-50-8	E440/WT	0.50	mg/kg	5.19	3.67	0.88	<0.50	1.71	
Iron	7439-89-6	E440/WT	50	mg/kg	7130	5480	3170	1310	2840	
Lead	7439-92-1	E440/WT	0.50	mg/kg	3.25	3.19	1.05	0.76	1.18	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	17.1	18.9	<2.0	<2.0	2.0	
Magnesium	7439-95-4	E440/WT	20	mg/kg	27700	31400	747	346	711	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	117	103	32.5	5.9	10.7	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	0.0086	0.0064	0.0074	<0.0050	0.0051	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.34	0.26	<0.10	<0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	7.04	4.74	2.29	1.02	5.20	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	125	172	110	<50	130	
Potassium	7440-09-7	E440/WT	100	mg/kg	1100	910	170	100	110	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	54	51	<50	<50	<50	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	34.2	35.3	1.42	1.08	1.78	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.063	0.054	<0.050	<0.050	<0.050	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-08-S_2025 ----	TR-09-S_2025 ----	TR-11-S_2025 ----	TR-12-S_2025 ----	TR-14-S_2025 ----
					Client sampling date / time	12-Jul-2025 08:15	12-Jul-2025 09:00	13-Jul-2025 09:00	12-Jul-2025 10:45	13-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519619-006	WT2519619-007	WT2519619-008	WT2519619-009	WT2519619-010	
					Result	Result	Result	Result	Result	
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg	93.5	77.0	75.9	50.6	98.1	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.371	0.296	0.221	0.107	0.367	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	12.3	7.80	4.31	2.49	4.87	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	5.9	6.6	2.8	<2.0	3.0	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519619</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BA/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 10</p> <p>No. of samples analysed : 10</p>	<p>Page : 1 of 16</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 17-Jul-2025 09:00</p> <p>Issue Date : 28-Jul-2025 18:04</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-2119748 002	----	Silver	7440-22-4	E440	67.9 % RRQC	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
RRQC	Refer to report comments for information regarding this QC result.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-01-S_2025	E510	13-Jul-2025	25-Jul-2025	28 days	12 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-02-S_2025	E510	13-Jul-2025	25-Jul-2025	28 days	12 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-11-S_2025	E510	13-Jul-2025	25-Jul-2025	28 days	12 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-14-S_2025	E510	13-Jul-2025	25-Jul-2025	28 days	12 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-03-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-05-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-07-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-08-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-09-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-12-S_2025	E510	12-Jul-2025	25-Jul-2025	28 days	13 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-01-S_2025	E440	13-Jul-2025	25-Jul-2025	180 days	12 days	✔	25-Jul-2025	180 days	12 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-02-S_2025	E440	13-Jul-2025	25-Jul-2025	180 days	12 days	✔	25-Jul-2025	180 days	12 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-11-S_2025	E440	13-Jul-2025	25-Jul-2025	180 days	12 days	✔	25-Jul-2025	180 days	12 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-14-S_2025	E440	13-Jul-2025	25-Jul-2025	180 days	12 days	✔	25-Jul-2025	180 days	12 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-03-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-05-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-07-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-08-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-09-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-12-S_2025	E440	12-Jul-2025	25-Jul-2025	180 days	13 days	✔	25-Jul-2025	180 days	13 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-01-S_2025	E185A	13-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-02-S_2025	E185A	13-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-03-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-05-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-07-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-08-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-09-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-11-S_2025	E185A	13-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-12-S_2025	E185A	12-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-14-S_2025	E185A	13-Jul-2025	----	----	----		28-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-01-S_2025	E184	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-02-S_2025	E184	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-11-S_2025	E184	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-14-S_2025	E184	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-03-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-05-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-07-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-08-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-09-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-12-S_2025	E184	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-01-S_2025	E182	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-02-S_2025	E182	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-11-S_2025	E182	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-14-S_2025	E182	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-03-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-05-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-07-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-08-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-09-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-12-S_2025	E182	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-01-S_2025	E181	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-02-S_2025	E181	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-11-S_2025	E181	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-14-S_2025	E181	13-Jul-2025	24-Jul-2025	365 days	11 days	✔	24-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-03-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-05-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-07-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-08-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-09-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-12-S_2025	E181	12-Jul-2025	24-Jul-2025	365 days	12 days	✔	24-Jul-2025	365 days	12 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-01-S_2025	E144	13-Jul-2025	----	----	----		22-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-02-S_2025	E144	13-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-03-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-05-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-07-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-08-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-09-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-11-S_2025	E144	13-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-12-S_2025	E144	12-Jul-2025	----	----	----		22-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag TR-14-S_2025	E144	13-Jul-2025	----	----	----		22-Jul-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-03-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-05-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-07-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-08-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-09-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-12-S_2025	E108A	12-Jul-2025	22-Jul-2025	30 days	10 days	✔	23-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-01-S_2025	E108A	13-Jul-2025	22-Jul-2025	30 days	9 days	✔	23-Jul-2025	30 days	9 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-02-S_2025	E108A	13-Jul-2025	22-Jul-2025	30 days	9 days	✔	23-Jul-2025	30 days	9 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-11-S_2025	E108A	13-Jul-2025	22-Jul-2025	30 days	9 days	✔	23-Jul-2025	30 days	9 days	✔	



Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag TR-14-S_2025	E108A	13-Jul-2025	22-Jul-2025	30 days	9 days	✔	23-Jul-2025	30 days	9 days	✔

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2119750	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2119751	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2125521	1	10	10.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2125519	1	10	10.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2119749	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2119750	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2119751	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2125520	1	10	10.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2125521	1	10	10.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2125519	1	10	10.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2119749	2	20	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	2	20	10.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2119751	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2119749	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.

QUALITY CONTROL REPORT

Work Order	: WT2519619	Page	: 1 of 10
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 17-Jul-2025 09:00
PO	: 4500156571	Date Analysis Commenced	: 22-Jul-2025
C-O-C number	: ----	Issue Date	: 28-Jul-2025 18:04
Sampler	: BA/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham	Laboratory Supervisor	Saskatoon Inorganics, Saskatoon, Saskatchewan
Hedy Lai	Team Leader - Inorganics	Saskatoon Sask Soils, Saskatoon, Saskatchewan
Josphin Masihi	Supervisor I	Waterloo Centralized Prep, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario

Page : 2 of 10
Work Order : WT2519619
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2119750)											
WT2519619-001	TR-01-S_2025	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	4.76	4.63	2.77%	5%	----
Physical Tests (QC Lot: 2119751)											
WT2519619-003	TR-03-S_2025	Moisture	----	E144	0.25	%	4.64	4.66	0.299%	20%	----
Percent Passing (QC Lot: 2125519)											
WT2519619-001	TR-01-S_2025	Passing (0.002mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	1.3	1.5	0.2	Diff <2x LOR	----
Percent Passing (QC Lot: 2125521)											
WT2519619-001	TR-01-S_2025	Passing (0.05mm)	----	E182	1.0	%	2.1	2.4	0.3	Diff <2x LOR	----
		Passing (0.063mm)	----	E182	1.0	%	2.4	2.8	0.4	Diff <2x LOR	----
		Passing (0.075mm)	----	E182	1.0	%	2.7	3.2	0.5	Diff <2x LOR	----
		Passing (0.125mm)	----	E182	1.0	%	3.9	4.7	0.8	Diff <2x LOR	----
		Passing (0.149mm)	----	E182	1.0	%	6.9	7.7	0.8	Diff <2x LOR	----
		Passing (0.250mm)	----	E182	1.0	%	19.5	20.6	5.22%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	58.2	58.7	0.857%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	76.4	76.7	0.319%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	92.1	92.1	0.0332%	15%	----
Passing (1.0mm)	----	E182	1.0	%	99.4	99.3	0.0697%	15%	----		
Metals (QC Lot: 2119748)											
WT2519619-001	TR-01-S_2025	Mercury	7439-97-6	E510	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
Metals (QC Lot: 2119749)											
WT2519619-001	TR-01-S_2025	Aluminum	7429-90-5	E440	50	mg/kg	557	638	13.6%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.12	0.13	0.01	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	2.40	2.58	0.19	Diff <2x LOR	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2119749) - continued											
WT2519619-001	TR-01-S_2025	Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	134	177	43	Diff <2x LOR	----
		Chromium	7440-47-3	E440	0.50	mg/kg	2.52	2.68	0.15	Diff <2x LOR	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	0.40	0.43	0.03	Diff <2x LOR	----
		Copper	7440-50-8	E440	0.50	mg/kg	0.62	0.59	0.03	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	1510	1500	0.705%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	0.70	0.71	0.02	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	405	496	20.1%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	8.9	9.6	7.85%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	1.60	1.67	0.07	Diff <2x LOR	----
		Phosphorus	7723-14-0	E440	50	mg/kg	50	70	19	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	110	120	7	Diff <2x LOR	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	0.98	1.07	0.09	Diff <2x LOR	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	42.0	43.9	4.32%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.121	0.151	0.030	Diff <2x LOR	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	2.28	2.65	14.8%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	<2.0	2.2	0.2	Diff <2x LOR	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2119751)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2119748)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2119749)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---

Page : 6 of 10
Work Order : WT2519619
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2119749) - continued						
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2119750)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2119751)									
Moisture	---	E144	0.25	%	50 %	99.7	90.0	110	---
Metals (QCLot: 2119748)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	91.0	80.0	120	---
Metals (QCLot: 2119749)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	94.6	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	89.2	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	92.0	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	93.4	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	93.3	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	89.9	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	88.1	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	93.6	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	92.6	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	92.5	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	91.6	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	91.9	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	89.7	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	94.0	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	92.2	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	100	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	92.2	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	87.6	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	91.6	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	92.1	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	92.5	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	89.0	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 67.9	80.0	120	RRQC
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	95.8	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	92.2	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	90.9	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2119749) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	91.8	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	89.2	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	85.1	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	92.8	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	93.6	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	91.9	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	84.3	80.0	120	----

Qualifiers

Qualifier	Description
RRQC	Refer to report comments for information regarding this QC result.



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

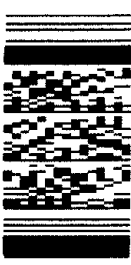
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2125519)									
QC-2125519-001	RM	Passing (0.002mm)	----	E184	22.5 %	109	74.1	126	----
QC-2125519-001	RM	Passing (0.004mm)	----	E184	25.1 %	108	76.8	123	----
QC-2125519-001	RM	Passing (0.005mm)	----	E184	26.5 %	108	77.9	122	----
QC-2125519-001	RM	Passing (0.020mm)	----	E184	41.8 %	102	85.8	114	----
QC-2125519-001	RM	Passing (0.0312mm)	----	E184	45.6 %	105	88.0	112	----
Percent Passing (QCLot: 2125520)									
QC-2125520-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2125520-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Percent Passing (QCLot: 2125521)									
QC-2125521-001	RM	Passing (0.05mm)	----	E182	54.1 %	104	90.0	110	----
QC-2125521-001	RM	Passing (0.063mm)	----	E182	57.1 %	102	90.8	109	----
QC-2125521-001	RM	Passing (0.075mm)	----	E182	60.2 %	101	91.4	109	----
QC-2125521-001	RM	Passing (0.125mm)	----	E182	68.2 %	103	92.7	107	----
QC-2125521-001	RM	Passing (0.149mm)	----	E182	72 %	101	93.1	107	----
QC-2125521-001	RM	Passing (0.250mm)	----	E182	82.3 %	100	94.1	106	----
QC-2125521-001	RM	Passing (0.420mm)	----	E182	89.9 %	99.0	94.6	105	----
QC-2125521-001	RM	Passing (0.50mm)	----	E182	91.2 %	101	94.7	105	----
QC-2125521-001	RM	Passing (0.841mm)	----	E182	95.6 %	99.6	94.9	105	----
QC-2125521-001	RM	Passing (1.0mm)	----	E182	96.3 %	100	94.9	105	----
Metals (QCLot: 2119748)									
QC-2119748-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	90.6	70.0	130	----
Metals (QCLot: 2119749)									
QC-2119749-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	100	70.0	130	----
QC-2119749-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	88.3	70.0	130	----
QC-2119749-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	90.6	70.0	130	----
QC-2119749-003	RM	Barium	7440-39-3	E440	788 mg/kg	93.5	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2119749) - continued									
QC-2119749-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	96.1	70.0	130	----
QC-2119749-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	88.5	70.0	130	----
QC-2119749-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	94.6	70.0	130	----
QC-2119749-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	95.1	70.0	130	----
QC-2119749-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	95.8	70.0	130	----
QC-2119749-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	92.0	70.0	130	----
QC-2119749-003	RM	Copper	7440-50-8	E440	969 mg/kg	96.0	70.0	130	----
QC-2119749-003	RM	Iron	7439-89-6	E440	32700 mg/kg	97.3	70.0	130	----
QC-2119749-003	RM	Lead	7439-92-1	E440	919 mg/kg	90.7	70.0	130	----
QC-2119749-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	97.3	70.0	130	----
QC-2119749-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	98.6	70.0	130	----
QC-2119749-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	96.3	70.0	130	----
QC-2119749-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	93.5	70.0	130	----
QC-2119749-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	96.8	70.0	130	----
QC-2119749-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	91.5	70.0	130	----
QC-2119749-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	94.1	70.0	130	----
QC-2119749-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	100	60.0	140	----
QC-2119749-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	88.0	70.0	130	----
QC-2119749-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2119749-003	RM	Strontium	7440-24-6	E440	41 mg/kg	93.5	70.0	130	----
QC-2119749-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	108	50.0	150	----
QC-2119749-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	88.9	70.0	130	----
QC-2119749-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	93.8	40.0	160	----
QC-2119749-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	97.1	70.0	130	----
QC-2119749-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	100	70.0	130	----
QC-2119749-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	99.9	70.0	130	----
QC-2119749-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	92.9	70.0	130	----
QC-2119749-003	RM	Zinc	7440-66-6	E440	828 mg/kg	93.2	70.0	130	----
QC-2119749-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	98.9	70.0	130	----

SR-009
O/D



COC Number: 2

Page

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



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Report To Contact and company name below will appear on the final report Company: ED - Environmental Dynamics Inc c/o Baffinland Iron Mine Contact: Daniel Hill Phone: 409-479-1040 Company address below will appear on the final report Street: 400-625 5 Avenue SW City/Province: Calgary, AB Postal Code: T2P 0M6		Reports / Recipients Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Merge COC/OC Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: dhill@edynamics.com Email 2: paul@edynamics.com Email 3:		Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine RI (received by 3pm M-F - 20% rush surcharge minimum) <input type="checkbox"/> 4 day (P) (received by 3pm M-F - 25% rush surcharge minimum) <input type="checkbox"/> 3 day (P) (received by 3pm M-F - 25% rush surcharge minimum) <input type="checkbox"/> 2 day (P) (received by 3pm M-F - 50% rush surcharge minimum) <input type="checkbox"/> 1 day (E) (received by 3pm M-F - 100% rush surcharge minimum) <input type="checkbox"/> Same day (E) (received by 10am M-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests) (ALS use only)	
Invoice To Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Company: Baffinland Iron Mine Corporation Contact: Accounts Payable		Invoice Recipients Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: ap@baffinland.com Email 2: environment.suggestions@baffinland.com Email 3:		Date and Time Requested for all EDP TATs: For tests that can not be performed according to the TAT requested, you will be contacted.	
Project Information ALS Account # / Quote #: 107519619 Job #: 25CO127_2025_Metals_Sampling PO / AFE: 4500156571 LSD:		Oil and Gas Required Fields (client use) AFE/Cost Center: Meter/Miner Code: Requisitioner: Location:		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
ALS Lab Work Order # (lab use only): Sample Identification (fills automatically)		ALS Contact: Rick Hawthorne Sampler: Bailey Durant, Andrew Lali		NUMBER OF CONTAINERS HG-200 2-CVAA-WT (Metals In Soil) MET-200 2-COM-S-WT (Metals In Soil) MOISTURE-WT (Physical Test) PH-WT (Physical Test) PARTICLE SIZE/TEXTURE (Physical Test)	
ALS Sample # (lab use only) TR-01-S_2025 TR-02-S_2025 TR-03-S_2025 TR-04-S_2025 TR-05-S_2025 TR-06-S_2025 TR-07-S_2025 TR-08-S_2025 TR-09-S_2025 TR-10-S_2025 TR-11-S_2025 TR-12-S_2025 TR-13-S_2025 TR-14-S_2025		Sample Location (SYS_LOC_CODE) SO SO SO SO SO SO SO SO SO SO SO SO		SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)	
Drinking Water (DW) Samples¹ (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (lab use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A <input type="checkbox"/> Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A INITIAL COOLER TEMPERATURES °C: <input type="checkbox"/> YES <input type="checkbox"/> NO FINAL COOLER TEMPERATURES °C: 25.0	
SHIPMENT RELEASE (client use) Released by: Bailey Durant Date: 15-Jul-2025 Time: 08:00		INITIAL SHIPMENT RECEPTION (lab use only) Received by: <i>BA</i> Date: 15 July 2025 Time: 09:00		FINAL SHIPMENT RECEPTION (lab use only) Received by: <i>BA</i> Date: 15 July 2025 Time: 09:00	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 Failures to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS

Work Order	: WT2519625		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 17-Jul-2025 09:00
C-O-C number	: ----	Date Analysis Commenced	: 22-Jul-2025
Sampler	: BA/AL	Issue Date	: 28-Jul-2025 18:04
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Greg Pokocky		Metals, Waterloo, Ontario
Greg Pokocky		Inorganics, Waterloo, Ontario
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan
Josphin Masihi		Centralized Prep, Waterloo, Ontario
Niral Patel		Centralized Prep, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.

PSAL:Sample 004-006,011: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-01-S_2025 ----	MP-02-S_2025 ----	MP-03-S_2025 ----	MP-04-S_2025 ----	MP-05-S_2025 ----
					Client sampling date / time	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-001	WT2519625-002	WT2519625-003	WT2519625-004	WT2519625-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	24.6	14.8	22.7	18.0	18.0	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.70	7.34	6.87	6.30	7.17	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	25.7	9.0	6.4	10.5	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	7.5	3.9	2.9	3.9	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	1.7	9.0	7.6	4.1	7.6	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	17.3	15.6	15.7	11.3	19.2	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	48.3	18.3	26.4	27.5	23.2	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	13.4	7.7	12.3	16.2	10.1	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	8.3	7.7	12.1	15.3	12.5	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	8.5	6.8	11.8	14.0	11.4	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	1.8	1.7	1.2	2.3	1.6	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	1.2	1.1	<1.0	1.2	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	1.8	1.7	1.2	2.3	1.6	
Passing (0.005mm)	----	E184/SK	1.0	%	2.1	2.0	1.6	2.8	2.0	
Passing (0.020mm)	----	E184/SK	1.0	%	6.7	6.3	7.8	11.2	8.6	
Passing (0.0312mm)	----	E184/SK	1.0	%	10.1	9.4	13.3	17.6	14.1	
Passing (0.05mm)	----	E182/SK	1.0	%	15.8	14.6	22.6	28.2	23.4	
Passing (0.063mm)	----	E182/SK	1.0	%	18.6	16.2	25.1	31.6	25.5	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-01-S_2025	MP-02-S_2025	MP-03-S_2025	MP-04-S_2025	MP-05-S_2025
					Client sampling date / time	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-001	WT2519625-002	WT2519625-003	WT2519625-004	WT2519625-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	---	E182/SK	1.0	%	21.2	17.7	27.5	34.7	27.5	
Passing (0.125mm)	---	E182/SK	1.0	%	32.0	23.9	37.4	47.8	35.6	
Passing (0.149mm)	---	E182/SK	1.0	%	41.2	27.4	42.5	53.1	40.0	
Passing (0.250mm)	---	E182/SK	1.0	%	80.3	42.2	63.8	75.3	58.8	
Passing (0.420mm)	---	E182/SK	1.0	%	92.1	52.8	74.4	83.0	71.8	
Passing (0.50mm)	---	E182/SK	1.0	%	97.6	57.8	79.5	86.6	78.0	
Passing (0.841mm)	---	E182/SK	1.0	%	98.8	64.0	84.6	89.4	83.2	
Passing (1.0mm)	---	E182/SK	1.0	%	99.3	66.8	87.1	90.7	85.6	
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	---	E181/SK	1.0	%	100.0	74.3	91.0	93.6	89.5	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	---	E181/SK	1.0	%	100.0	83.6	95.0	96.2	94.4	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	---	E181/SK	1.0	%	100.0	92.0	96.9	100.0	98.3	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2570	3060	5140	4480	4330	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.62	0.70	0.97	0.92	0.85	
Barium	7440-39-3	E440/WT	0.50	mg/kg	9.17	7.92	12.1	11.4	12.8	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-01-S_2025	MP-02-S_2025	MP-03-S_2025	MP-04-S_2025	MP-05-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30	
					WT2519625-001	WT2519625-002	WT2519625-003	WT2519625-004	WT2519625-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.15	0.22	0.32	0.30	0.26	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	7.7	8.8	9.7	8.4	9.2	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	0.036	0.026	0.024	
Calcium	7440-70-2	E440/WT	50	mg/kg	1940	16200	2890	1600	11600	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	8.99	5.91	10.4	12.0	7.75	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.82	1.88	2.65	2.62	2.32	
Copper	7440-50-8	E440/WT	0.50	mg/kg	2.27	3.09	4.75	4.14	4.80	
Iron	7439-89-6	E440/WT	50	mg/kg	6020	6220	8670	8310	7360	
Lead	7439-92-1	E440/WT	0.50	mg/kg	2.70	3.85	4.82	4.73	4.04	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	7.5	9.3	14.5	12.0	11.5	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1740	10400	3610	3120	9050	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	77.5	100	153	111	118	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0054	0.0072	<0.0050	0.0053	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.11	0.14	0.25	0.20	0.19	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	4.44	3.46	5.73	6.46	4.98	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	163	167	228	158	178	
Potassium	7440-09-7	E440/WT	100	mg/kg	520	430	580	640	650	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	60	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-01-S_2025	MP-02-S_2025	MP-03-S_2025	MP-04-S_2025	MP-05-S_2025
					Client sampling date / time	11-Jul-2025 07:45	11-Jul-2025 08:30	11-Jul-2025 09:00	10-Jul-2025 14:15	10-Jul-2025 13:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-001	WT2519625-002	WT2519625-003	WT2519625-004	WT2519625-005	
					Result	Result	Result	Result	Result	
Metals										
Strontium	7440-24-6	E440/WT	0.50	mg/kg	4.17	7.79	3.55	3.41	6.20	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	0.058	0.104	0.088	0.090	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	139	166	197	214	235	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	1.30	0.906	1.82	10.1	1.52	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	8.48	9.95	13.0	12.3	11.1	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	7.6	11.1	17.8	14.7	14.4	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-06-S_2025	MP-07-S_2025	MP-08-S_2025	MP-09-S_2025	MP-10-S_2025
					Client sampling date / time	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-006	WT2519625-007	WT2519625-008	WT2519625-009	WT2519625-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	17.8	10.2	21.4	19.5	6.43	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	7.19	7.46	7.22	7.32	7.57	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	48.8	29.9	14.9	40.8	51.7	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-06-S_2025	MP-07-S_2025	MP-08-S_2025	MP-09-S_2025	MP-10-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15	
					WT2519625-006	WT2519625-007	WT2519625-008	WT2519625-009	WT2519625-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	8.4	10.8	4.8	4.7	3.8	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	8.0	17.3	19.3	4.4	8.2	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	6.2	17.2	41.6	4.3	15.1	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	5.3	7.4	5.3	5.5	8.4	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	2.5	2.1	1.1	6.6	3.2	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	10.8	6.3	6.5	17.5	4.8	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	10.0	3.8	4.0	12.3	3.1	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	5.2	2.5	3.9	1.7	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	4.5	1.9	2.4	1.2	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	5.2	2.5	3.9	1.7	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	5.5	2.8	4.7	2.0	
Passing (0.020mm)	----	E184/SK	1.0	%	5.2	9.5	6.8	14.9	5.1	
Passing (0.0312mm)	----	E184/SK	1.0	%	10.8	11.5	9.0	21.4	6.5	
Passing (0.05mm)	----	E182/SK	1.0	%	20.2	14.9	12.8	32.4	8.9	
Passing (0.063mm)	----	E182/SK	1.0	%	20.8	15.3	13.0	33.7	9.6	
Passing (0.075mm)	----	E182/SK	1.0	%	21.2	15.7	13.2	35.0	10.2	
Passing (0.125mm)	----	E182/SK	1.0	%	23.3	17.4	14.1	40.3	12.8	
Passing (0.149mm)	----	E182/SK	1.0	%	24.4	18.8	15.2	41.3	14.4	
Passing (0.250mm)	----	E182/SK	1.0	%	28.6	24.8	19.4	45.8	21.2	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-06-S_2025	MP-07-S_2025	MP-08-S_2025	MP-09-S_2025	MP-10-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15	
					WT2519625-006	WT2519625-007	WT2519625-008	WT2519625-009	WT2519625-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	----	E182/SK	1.0	%	32.9	36.5	47.7	48.7	31.5	
Passing (0.50mm)	----	E182/SK	1.0	%	34.8	42.0	61.0	50.1	36.3	
Passing (0.841mm)	----	E182/SK	1.0	%	40.2	53.8	74.2	53.1	41.9	
Passing (1.0mm)	----	E182/SK	1.0	%	42.8	59.3	80.3	54.5	44.5	
Passing (19mm)	----	E181/SK	1.0	%	58.7	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	51.2	70.1	85.1	59.2	48.3	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	56.6	80.9	88.0	66.4	59.0	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	58.7	91.4	89.5	74.2	69.2	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	4310	5990	2920	10600	4360	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.84	1.18	0.52	2.33	1.02	
Barium	7440-39-3	E440/WT	0.50	mg/kg	12.7	11.0	6.37	23.5	7.84	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.25	0.37	0.18	0.61	0.28	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	9.2	20.8	16.5	37.2	15.7	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.023	0.025	<0.020	0.049	<0.020	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-06-S_2025	MP-07-S_2025	MP-08-S_2025	MP-09-S_2025	MP-10-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15	
					WT2519625-006	WT2519625-007	WT2519625-008	WT2519625-009	WT2519625-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	11800	28000	9920	51800	27500	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	7.88	13.3	8.74	26.2	9.99	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	2.29	3.03	1.37	5.55	2.47	
Copper	7440-50-8	E440/WT	0.50	mg/kg	4.95	5.66	3.48	12.5	4.91	
Iron	7439-89-6	E440/WT	50	mg/kg	7200	8810	4020	14900	7400	
Lead	7439-92-1	E440/WT	0.50	mg/kg	4.06	4.96	2.24	9.03	4.39	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	11.1	22.2	13.4	39.3	15.1	
Magnesium	7439-95-4	E440/WT	20	mg/kg	9030	14100	6920	25000	11200	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	115	130	49.4	231	112	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	0.0052	<0.0050	<0.0050	0.0138	<0.0050	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.15	0.18	<0.10	0.38	0.15	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	4.94	7.85	4.62	14.7	5.81	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	181	203	175	367	175	
Potassium	7440-09-7	E440/WT	100	mg/kg	650	1470	990	2180	990	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	56	55	102	92	<50	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	6.60	17.5	8.96	30.1	18.4	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.095	0.094	<0.050	0.205	0.097	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-06-S_2025	MP-07-S_2025	MP-08-S_2025	MP-09-S_2025	MP-10-S_2025
					Client sampling date / time	10-Jul-2025 10:00	10-Jul-2025 11:00	09-Jul-2025 12:30	10-Jul-2025 07:30	10-Jul-2025 08:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-006	WT2519625-007	WT2519625-008	WT2519625-009	WT2519625-010	
					Result	Result	Result	Result	Result	
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg	233	229	111	362	197	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	1.70	0.925	0.571	1.20	0.962	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	11.0	14.3	7.04	25.1	11.9	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	14.2	15.0	6.5	28.9	11.7	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	4.5	1.5	3.6	2.4	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-11-S_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-011	----	----	----	----	
					Result	----	----	----	----	
Physical Tests										
Moisture	----	E144/WT	0.25	%	24.1	----	----	----	----	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	7.04	----	----	----	----	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	33.4	----	----	----	----	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	10.5	----	----	----	----	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	9.8	----	----	----	----	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	10.5	----	----	----	----	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	8.5	----	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-11-S_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-011	----	----	----	----	
					Result	----	----	----	----	
Particle Size										
Sand (0.125mm - 0.063mm)	----	EC184/SK	1.0	%	3.4	----	----	----	----	
Silt (0.0312mm - 0.004mm)	----	EC184/SK	1.0	%	11.3	----	----	----	----	
Silt (0.063mm - 0.0312mm)	----	EC184/SK	1.0	%	11.0	----	----	----	----	
Clay (<0.004mm)	----	EC184/SK	1.0	%	1.6	----	----	----	----	
Grain size curve	----	E185A/SK	-	-	See Attached	----	----	----	----	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	1.3	----	----	----	----	
Passing (0.004mm)	----	E184/SK	1.0	%	1.6	----	----	----	----	
Passing (0.005mm)	----	E184/SK	1.0	%	1.7	----	----	----	----	
Passing (0.020mm)	----	E184/SK	1.0	%	6.8	----	----	----	----	
Passing (0.0312mm)	----	E184/SK	1.0	%	12.9	----	----	----	----	
Passing (0.05mm)	----	E182/SK	1.0	%	23.2	----	----	----	----	
Passing (0.063mm)	----	E182/SK	1.0	%	23.9	----	----	----	----	
Passing (0.075mm)	----	E182/SK	1.0	%	24.5	----	----	----	----	
Passing (0.125mm)	----	E182/SK	1.0	%	27.3	----	----	----	----	
Passing (0.149mm)	----	E182/SK	1.0	%	28.9	----	----	----	----	
Passing (0.250mm)	----	E182/SK	1.0	%	35.8	----	----	----	----	
Passing (0.420mm)	----	E182/SK	1.0	%	42.9	----	----	----	----	
Passing (0.50mm)	----	E182/SK	1.0	%	46.3	----	----	----	----	
Passing (0.841mm)	----	E182/SK	1.0	%	53.0	----	----	----	----	
Passing (1.0mm)	----	E182/SK	1.0	%	56.1	----	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-11-S_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-011	----	----	----	----	
					Result	----	----	----	----	
Percent Passing										
Passing (19mm)	---	E181/SK	1.0	%	100.0	----	----	----	----	
Passing (2.0mm)	---	E181/SK	1.0	%	66.6	----	----	----	----	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	----	----	----	----	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	----	----	----	----	
Passing (4.75mm)	---	E181/SK	1.0	%	74.8	----	----	----	----	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	----	----	----	----	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	----	----	----	----	
Passing (9.5mm)	---	E181/SK	1.0	%	87.7	----	----	----	----	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	6180	----	----	----	----	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	----	----	----	----	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	1.27	----	----	----	----	
Barium	7440-39-3	E440/WT	0.50	mg/kg	27.1	----	----	----	----	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.38	----	----	----	----	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	----	----	----	----	
Boron	7440-42-8	E440/WT	5.0	mg/kg	23.4	----	----	----	----	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.068	----	----	----	----	
Calcium	7440-70-2	E440/WT	50	mg/kg	19600	----	----	----	----	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	18.9	----	----	----	----	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	4.17	----	----	----	----	
Copper	7440-50-8	E440/WT	0.50	mg/kg	9.36	----	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-11-S_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-011	----	----	----	----	
					Result	----	----	----	----	
Metals										
Iron	7439-89-6	E440/WT	50	mg/kg	11600	----	----	----	----	
Lead	7439-92-1	E440/WT	0.50	mg/kg	8.77	----	----	----	----	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	15.4	----	----	----	----	
Magnesium	7439-95-4	E440/WT	20	mg/kg	6930	----	----	----	----	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	254	----	----	----	----	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	0.0464	----	----	----	----	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.38	----	----	----	----	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	10.6	----	----	----	----	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	811	----	----	----	----	
Potassium	7440-09-7	E440/WT	100	mg/kg	1210	----	----	----	----	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	----	----	----	----	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	----	----	----	----	
Sodium	7440-23-5	E440/WT	50	mg/kg	59	----	----	----	----	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	20.6	----	----	----	----	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	1000	----	----	----	----	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.132	----	----	----	----	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	----	----	----	----	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	174	----	----	----	----	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	----	----	----	----	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	1.90	----	----	----	----	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	17.0	----	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
(Matrix: Soil/Solid)

					Client sample ID	MP-11-S_2025	----	----	----	----
					Client sampling date / time	10-Jul-2025 09:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519625-011	----	----	----	----	----
					Result	----	----	----	----	----
Metals										
Zinc	7440-66-6	E440/WT	2.0	mg/kg	46.3	----	----	----	----	----
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	1.2	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519625</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BA/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 11</p> <p>No. of samples analysed : 11</p>	<p>Page : 1 of 17</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 17-Jul-2025 09:00</p> <p>Issue Date : 28-Jul-2025 18:04</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-2119748 002	----	Silver	7440-22-4	E440	67.9 % RRQC	80.0-120%	Recovery less than lower control limit
Metals	QC-MRG2-2128956 002	----	Silver	7440-22-4	E440	72.8 % MES	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RRQC	Refer to report comments for information regarding this QC result.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-01-S_2025	E510	11-Jul-2025	25-Jul-2025	28 days	14 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-02-S_2025	E510	11-Jul-2025	25-Jul-2025	28 days	14 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-03-S_2025	E510	11-Jul-2025	25-Jul-2025	28 days	14 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-04-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-05-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-06-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✔	26-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-07-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✔	26-Jul-2025	28 days	1 days	✔



Matrix: Soil/Solid

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MP-09-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✓	26-Jul-2025	28 days	1 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MP-10-S_2025	E510	10-Jul-2025	25-Jul-2025	28 days	15 days	✓	26-Jul-2025	28 days	1 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MP-08-S_2025	E510	09-Jul-2025	25-Jul-2025	28 days	16 days	✓	26-Jul-2025	28 days	1 days	✓	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MP-11-S_2025	E510	10-Jul-2025	27-Jul-2025	28 days	18 days	✓	28-Jul-2025	28 days	0 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-01-S_2025	E440	11-Jul-2025	25-Jul-2025	180 days	14 days	✓	25-Jul-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-02-S_2025	E440	11-Jul-2025	25-Jul-2025	180 days	14 days	✓	25-Jul-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-03-S_2025	E440	11-Jul-2025	25-Jul-2025	180 days	14 days	✓	25-Jul-2025	180 days	14 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-04-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✓	25-Jul-2025	180 days	15 days	✓	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-05-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✓	25-Jul-2025	180 days	15 days	✓	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-06-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✔	25-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-07-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✔	25-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-09-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✔	25-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-10-S_2025	E440	10-Jul-2025	25-Jul-2025	180 days	15 days	✔	25-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-08-S_2025	E440	09-Jul-2025	25-Jul-2025	180 days	16 days	✔	25-Jul-2025	180 days	16 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-11-S_2025	E440	10-Jul-2025	27-Jul-2025	180 days	18 days	✔	28-Jul-2025	180 days	18 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-01-S_2025	E185A	11-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-02-S_2025	E185A	11-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-03-S_2025	E185A	11-Jul-2025	----	----	----		28-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-04-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-05-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-06-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-07-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-08-S_2025	E185A	09-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-09-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-10-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-11-S_2025	E185A	10-Jul-2025	----	----	----		28-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-01-S_2025	E184	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-02-S_2025	E184	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-03-S_2025	E184	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-04-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-05-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-06-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-07-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-09-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-10-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-11-S_2025	E184	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-08-S_2025	E184	09-Jul-2025	24-Jul-2025	365 days	15 days	✔	24-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-01-S_2025	E182	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-02-S_2025	E182	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-03-S_2025	E182	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-04-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-05-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-06-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-07-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-09-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-10-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-11-S_2025	E182	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-08-S_2025	E182	09-Jul-2025	24-Jul-2025	365 days	15 days	✔	24-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-01-S_2025	E181	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-02-S_2025	E181	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-03-S_2025	E181	11-Jul-2025	24-Jul-2025	365 days	13 days	✔	24-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-04-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-05-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-06-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-07-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-09-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-10-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-11-S_2025	E181	10-Jul-2025	24-Jul-2025	365 days	14 days	✔	24-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-08-S_2025	E181	09-Jul-2025	24-Jul-2025	365 days	15 days	✔	24-Jul-2025	365 days	15 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-01-S_2025	E144	11-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-02-S_2025	E144	11-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-03-S_2025	E144	11-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-04-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-05-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-06-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-07-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-08-S_2025	E144	09-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-09-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-10-S_2025	E144	10-Jul-2025	----	----	----		22-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-11-S_2025	E144	10-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-01-S_2025	E108A	11-Jul-2025	22-Jul-2025	30 days	11 days	✔	23-Jul-2025	30 days	11 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-02-S_2025	E108A	11-Jul-2025	22-Jul-2025	30 days	11 days	✔	23-Jul-2025	30 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-03-S_2025	E108A	11-Jul-2025	22-Jul-2025	30 days	11 days	✔	23-Jul-2025	30 days	11 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-04-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-05-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-06-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-07-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-09-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-10-S_2025	E108A	10-Jul-2025	22-Jul-2025	30 days	12 days	✔	23-Jul-2025	30 days	12 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-08-S_2025	E108A	09-Jul-2025	22-Jul-2025	30 days	13 days	✔	23-Jul-2025	30 days	13 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-11-S_2025	E108A	10-Jul-2025	25-Jul-2025	30 days	15 days	✔	28-Jul-2025	30 days	15 days	✔	

[Legend & Qualifier Definitions](#)

Page : 14 of 17
Work Order : WT2519625
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126164	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2125972	2	40	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2125504	1	15	6.6	5.0	✔
Particle Size Analysis - Pipette Method	E184	2125503	1	15	6.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2128956	2	21	9.5	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	2	21	9.5	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126164	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2125972	2	40	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2125505	1	15	6.6	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2125504	1	15	6.6	5.0	✔
Particle Size Analysis - Pipette Method	E184	2125503	1	15	6.6	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2128956	4	21	19.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	4	21	19.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2125972	2	40	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2128956	2	21	9.5	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2119748	2	21	9.5	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.



QUALITY CONTROL REPORT

Work Order : **WT2519625**
Client : Baffinland Iron Mines Corporation
Contact : Environmental Lab Results
Address : 360 Oakville Place Dr Suite 300
 Oakville ON Canada L6H 6K8
Telephone : ----
Project : 25C0127_2025_METALS_SAMPLING
PO : 4500156571
C-O-C number : ----
Sampler : BA/AL
Site : ----
Quote number : 2024-2025 Scope of Work
No. of samples received : 11
No. of samples analysed : 11

Page : 1 of 14
Laboratory : ALS Environmental - Waterloo
Account Manager : Rick Hawthorne
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Date Samples Received : 17-Jul-2025 09:00
Date Analysis Commenced : 22-Jul-2025
Issue Date : 28-Jul-2025 18:04

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
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Work Order : WT2519625
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2119750)											
WT2519619-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	4.76	4.63	2.77%	5%	----
Physical Tests (QC Lot: 2119751)											
WT2519619-003	Anonymous	Moisture	----	E144	0.25	%	4.64	4.66	0.299%	20%	----
Physical Tests (QC Lot: 2125972)											
WT2519625-011	MP-11-S_2025	Moisture	----	E144	0.25	%	24.1	22.3	7.71%	20%	----
Physical Tests (QC Lot: 2126164)											
TY2507956-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.10	5.01	1.78%	5%	----
Percent Passing (QC Lot: 2125503)											
VA25B7948-021	Anonymous	Passing (0.002mm)	----	E184	1.0	%	6.6	7.1	0.5	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	9.1	9.7	0.5	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	10.4	11.0	0.6	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	24.1	24.7	2.49%	15%	----
		Passing (0.0312mm)	----	E184	1.0	%	30.2	30.3	0.419%	15%	----
Percent Passing (QC Lot: 2125504)											
VA25B7948-021	Anonymous	Passing (0.05mm)	----	E182	1.0	%	40.3	39.6	1.71%	15%	----
		Passing (0.063mm)	----	E182	1.0	%	42.1	41.4	1.70%	15%	----
		Passing (0.075mm)	----	E182	1.0	%	43.7	43.0	1.69%	15%	----
		Passing (0.125mm)	----	E182	1.0	%	50.5	49.7	1.66%	15%	----
		Passing (0.149mm)	----	E182	1.0	%	52.4	51.6	1.47%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	60.1	59.7	0.772%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	67.3	67.4	0.138%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	70.7	71.1	0.500%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	76.1	76.9	1.09%	15%	----
		Passing (1.0mm)	----	E182	1.0	%	78.6	79.6	1.33%	15%	----
Metals (QC Lot: 2119748)											
WT2519619-001	Anonymous	Mercury	7439-97-6	E510	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
Metals (QC Lot: 2119749)											
WT2519619-001	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	557	638	13.6%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.12	0.13	0.01	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2119749) - continued											
WT2519619-001	Anonymous	Barium	7440-39-3	E440	0.50	mg/kg	2.40	2.58	0.19	Diff <2x LOR	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	134	177	43	Diff <2x LOR	----
		Chromium	7440-47-3	E440	0.50	mg/kg	2.52	2.68	0.15	Diff <2x LOR	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	0.40	0.43	0.03	Diff <2x LOR	----
		Copper	7440-50-8	E440	0.50	mg/kg	0.62	0.59	0.03	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	1510	1500	0.705%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	0.70	0.71	0.02	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	405	496	20.1%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	8.9	9.6	7.85%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	1.60	1.67	0.07	Diff <2x LOR	----
		Phosphorus	7723-14-0	E440	50	mg/kg	50	70	19	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	110	120	7	Diff <2x LOR	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	0.98	1.07	0.09	Diff <2x LOR	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----		
Titanium	7440-32-6	E440	1.0	mg/kg	42.0	43.9	4.32%	40%	----		
Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		
Uranium	7440-61-1	E440	0.050	mg/kg	0.121	0.151	0.030	Diff <2x LOR	----		
Vanadium	7440-62-2	E440	0.20	mg/kg	2.28	2.65	14.8%	30%	----		
Zinc	7440-66-6	E440	2.0	mg/kg	<2.0	2.2	0.2	Diff <2x LOR	----		
Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----		
Metals (QC Lot: 2128956)											
WT2519625-011	MP-11-S_2025	Aluminum	7429-90-5	E440	50	mg/kg	6180	6310	2.11%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2128956) - continued											
WT2519625-011	MP-11-S_2025	Arsenic	7440-38-2	E440	0.10	mg/kg	1.27	1.26	0.736%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	27.1	27.4	1.33%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.38	0.38	0.003	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	23.4	22.4	1.0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.068	0.079	0.012	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	19600	18500	5.41%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	18.9	19.1	1.25%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	4.17	4.24	1.72%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	9.36	9.52	1.72%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	11600	11100	4.15%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	8.77	8.55	2.61%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	15.4	14.6	5.10%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	6930	6980	0.736%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	254	265	4.02%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.38	0.38	0.001	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	10.6	11.0	3.89%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	811	800	1.46%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	1210	1190	1.15%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	59	59	0.7	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	20.6	22.0	6.44%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	1000	1000	10	Diff <2x LOR	----
Thallium	7440-28-0	E440	0.050	mg/kg	0.132	0.134	0.002	Diff <2x LOR	----		
Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----		
Titanium	7440-32-6	E440	1.0	mg/kg	174	172	1.25%	40%	----		
Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		
Uranium	7440-61-1	E440	0.050	mg/kg	1.90	1.78	6.72%	30%	----		
Vanadium	7440-62-2	E440	0.20	mg/kg	17.0	16.4	3.37%	30%	----		
Zinc	7440-66-6	E440	2.0	mg/kg	46.3	46.6	0.491%	30%	----		
Zirconium	7440-67-7	E440	1.0	mg/kg	1.2	<1.0	0.2	Diff <2x LOR	----		
Metals (QC Lot: 2128957)											
WT2519625-011	MP-11-S_2025	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0464	0.0510	9.44%	40%	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2119751)						
Moisture	---	E144	0.25	%	<0.25	---
Physical Tests (QCLot: 2125972)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2119748)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2119749)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2119749) - continued						
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---
Titanium	7440-32-6	E440	1	mg/kg	<1.0	---
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	---
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	---
Zinc	7440-66-6	E440	2	mg/kg	<2.0	---
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	---
Metals (QCLot: 2128956)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2128956) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2128957)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2119750)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2119751)									
Moisture	---	E144	0.25	%	50 %	99.7	90.0	110	---
Physical Tests (QCLot: 2125972)									
Moisture	---	E144	0.25	%	50 %	99.6	90.0	110	---
Physical Tests (QCLot: 2126164)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Metals (QCLot: 2119748)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	91.0	80.0	120	---
Metals (QCLot: 2119749)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	94.6	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	89.2	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	92.0	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	93.4	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	93.3	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	89.9	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	88.1	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	93.6	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	92.6	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	92.5	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	91.6	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	91.9	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	89.7	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	94.0	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	92.2	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	100	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	92.2	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	87.6	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	91.6	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	92.1	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	92.5	80.0	120	---



Sub-Matrix: Soil/Solid

Laboratory Control Sample (LCS) Report

Analyte	CAS Number	Method	LOR	Unit	Spike		Recovery (%)		Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High			
Metals (QCLot: 2119749) - continued											
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	89.0	80.0	120			----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 67.9	80.0	120			RRQC
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	95.8	80.0	120			----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	92.2	80.0	120			----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	90.9	80.0	120			----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	91.8	80.0	120			----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	89.2	80.0	120			----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	85.1	80.0	120			----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	92.8	80.0	120			----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	93.6	80.0	120			----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	91.9	80.0	120			----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	84.3	80.0	120			----
Metals (QCLot: 2128956)											
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	95.6	80.0	120			----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	104	80.0	120			----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	101	80.0	120			----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	98.4	80.0	120			----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	89.3	80.0	120			----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	90.5	80.0	120			----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	89.3	80.0	120			----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	95.0	80.0	120			----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	92.1	80.0	120			----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	96.4	80.0	120			----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	94.4	80.0	120			----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	93.9	80.0	120			----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	96.3	80.0	120			----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	95.2	80.0	120			----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	89.1	80.0	120			----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	102	80.0	120			----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	93.6	80.0	120			----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	98.7	80.0	120			----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	93.8	80.0	120			----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	98.6	80.0	120			----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	99.2	80.0	120			----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.8	80.0	120			----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 72.8	80.0	120			MES



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2128956) - continued									
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	96.7	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	95.7	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	91.3	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	96.5	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	94.0	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	94.9	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	96.2	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	94.4	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	94.4	80.0	120	----
Metals (QCLot: 2128957)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	95.0	80.0	120	----

Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RRQC	Refer to report comments for information regarding this QC result.



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2125503)									
QC-2125503-001	RM	Passing (0.002mm)	----	E184	22.5 %	101	74.1	126	----
QC-2125503-001	RM	Passing (0.004mm)	----	E184	25.1 %	102	76.8	123	----
QC-2125503-001	RM	Passing (0.005mm)	----	E184	26.5 %	103	77.9	122	----
QC-2125503-001	RM	Passing (0.020mm)	----	E184	41.8 %	100	85.8	114	----
QC-2125503-001	RM	Passing (0.0312mm)	----	E184	45.6 %	102	88.0	112	----
Percent Passing (QCLot: 2125504)									
QC-2125504-001	RM	Passing (0.05mm)	----	E182	54.1 %	101	90.0	110	----
QC-2125504-001	RM	Passing (0.063mm)	----	E182	57.1 %	100	90.8	109	----
QC-2125504-001	RM	Passing (0.075mm)	----	E182	60.2 %	99.0	91.4	109	----
QC-2125504-001	RM	Passing (0.125mm)	----	E182	68.2 %	101	92.7	107	----
QC-2125504-001	RM	Passing (0.149mm)	----	E182	72 %	99.5	93.1	107	----
QC-2125504-001	RM	Passing (0.250mm)	----	E182	82.3 %	100	94.1	106	----
QC-2125504-001	RM	Passing (0.420mm)	----	E182	89.9 %	98.6	94.6	105	----
QC-2125504-001	RM	Passing (0.50mm)	----	E182	91.2 %	100	94.7	105	----
QC-2125504-001	RM	Passing (0.841mm)	----	E182	95.6 %	99.5	94.9	105	----
QC-2125504-001	RM	Passing (1.0mm)	----	E182	96.3 %	100	94.9	105	----
Percent Passing (QCLot: 2125505)									
QC-2125505-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2125505-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Metals (QCLot: 2119748)									
QC-2119748-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	90.6	70.0	130	----
Metals (QCLot: 2119749)									
QC-2119749-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	100	70.0	130	----
QC-2119749-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	88.3	70.0	130	----
QC-2119749-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	90.6	70.0	130	----
QC-2119749-003	RM	Barium	7440-39-3	E440	788 mg/kg	93.5	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2119749) - continued									
QC-2119749-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	96.1	70.0	130	----
QC-2119749-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	88.5	70.0	130	----
QC-2119749-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	94.6	70.0	130	----
QC-2119749-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	95.1	70.0	130	----
QC-2119749-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	95.8	70.0	130	----
QC-2119749-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	92.0	70.0	130	----
QC-2119749-003	RM	Copper	7440-50-8	E440	969 mg/kg	96.0	70.0	130	----
QC-2119749-003	RM	Iron	7439-89-6	E440	32700 mg/kg	97.3	70.0	130	----
QC-2119749-003	RM	Lead	7439-92-1	E440	919 mg/kg	90.7	70.0	130	----
QC-2119749-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	97.3	70.0	130	----
QC-2119749-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	98.6	70.0	130	----
QC-2119749-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	96.3	70.0	130	----
QC-2119749-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	93.5	70.0	130	----
QC-2119749-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	96.8	70.0	130	----
QC-2119749-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	91.5	70.0	130	----
QC-2119749-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	94.1	70.0	130	----
QC-2119749-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	100	60.0	140	----
QC-2119749-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	88.0	70.0	130	----
QC-2119749-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2119749-003	RM	Strontium	7440-24-6	E440	41 mg/kg	93.5	70.0	130	----
QC-2119749-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	108	50.0	150	----
QC-2119749-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	88.9	70.0	130	----
QC-2119749-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	93.8	40.0	160	----
QC-2119749-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	97.1	70.0	130	----
QC-2119749-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	100	70.0	130	----
QC-2119749-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	99.9	70.0	130	----
QC-2119749-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	92.9	70.0	130	----
QC-2119749-003	RM	Zinc	7440-66-6	E440	828 mg/kg	93.2	70.0	130	----
QC-2119749-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	98.9	70.0	130	----
Metals (QCLot: 2128956)									
QC-2128956-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	96.3	70.0	130	----
QC-2128956-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	84.4	70.0	130	----
QC-2128956-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	93.3	70.0	130	----
QC-2128956-003	RM	Barium	7440-39-3	E440	788 mg/kg	95.2	70.0	130	----
QC-2128956-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	94.3	70.0	130	----
QC-2128956-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	94.7	70.0	130	----
QC-2128956-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	91.4	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2128956) - continued									
QC-2128956-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	95.5	70.0	130	----
QC-2128956-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	93.8	70.0	130	----
QC-2128956-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	92.6	70.0	130	----
QC-2128956-003	RM	Copper	7440-50-8	E440	969 mg/kg	94.6	70.0	130	----
QC-2128956-003	RM	Iron	7439-89-6	E440	32700 mg/kg	97.5	70.0	130	----
QC-2128956-003	RM	Lead	7439-92-1	E440	919 mg/kg	91.7	70.0	130	----
QC-2128956-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	99.4	70.0	130	----
QC-2128956-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	97.0	70.0	130	----
QC-2128956-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	94.2	70.0	130	----
QC-2128956-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	92.7	70.0	130	----
QC-2128956-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	97.9	70.0	130	----
QC-2128956-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	88.8	70.0	130	----
QC-2128956-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	98.1	70.0	130	----
QC-2128956-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	98.5	60.0	140	----
QC-2128956-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	89.7	70.0	130	----
QC-2128956-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	102	70.0	130	----
QC-2128956-003	RM	Strontium	7440-24-6	E440	41 mg/kg	95.4	70.0	130	----
QC-2128956-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	93.4	50.0	150	----
QC-2128956-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	94.0	70.0	130	----
QC-2128956-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	93.3	40.0	160	----
QC-2128956-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	96.3	70.0	130	----
QC-2128956-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	101	70.0	130	----
QC-2128956-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	99.8	70.0	130	----
QC-2128956-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	92.6	70.0	130	----
QC-2128956-003	RM	Zinc	7440-66-6	E440	828 mg/kg	91.8	70.0	130	----
QC-2128956-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	99.5	70.0	130	----
Metals (QCLot: 2128957)									
QC-2128957-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	90.5	70.0	130	----



CERTIFICATE OF ANALYSIS

Work Order	: WT2519853		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 24-Jul-2025
Sampler	: BD/AL	Issue Date	: 31-Jul-2025 09:05
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Amanda Ganouri-Lumsden		Centralized Prep, Waterloo, Ontario
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Greg Pokocky		Metals, Waterloo, Ontario
Greg Pokocky		Inorganics, Waterloo, Ontario
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

PSAL:Sample 001-012: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-13-S_2025 ----	TR-15-S_2025 ----	TR-15-S_2025R ----	TR-16-S_2025 ----	TR-17-S_2025 ----
					Client sampling date / time	20-Jul-2025 12:15	20-Jul-2025 14:50	20-Jul-2025 14:50	20-Jul-2025 13:30	20-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-001	WT2519853-002	WT2519853-003	WT2519853-004	WT2519853-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	12.8	9.10	9.57	44.7	9.92	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	5.28	5.86	5.72	5.28	5.90	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	11.6	4.7	9.7	6.1	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	1.9	2.4	3.3	4.1	5.3	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	14.4	11.3	12.7	12.4	12.8	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	48.5	39.5	42.9	29.0	30.2	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	26.9	24.3	24.7	27.3	27.4	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	2.8	4.0	3.9	8.5	6.1	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	2.8	3.8	4.6	3.7	5.8	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	2.4	3.1	3.2	4.1	4.8	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	<1.0	1.2	1.5	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	1.2	1.5	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	<1.0	1.0	1.4	1.8	
Passing (0.020mm)	----	E184/SK	1.0	%	1.8	2.5	3.2	3.5	5.2	
Passing (0.0312mm)	----	E184/SK	1.0	%	2.8	3.8	4.6	4.9	7.3	
Passing (0.05mm)	----	E182/SK	1.0	%	4.6	6.0	7.0	7.2	10.8	
Passing (0.063mm)	----	E182/SK	1.0	%	5.2	6.9	7.8	9.0	12.1	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-13-S_2025	TR-15-S_2025	TR-15-S_2025R	TR-16-S_2025	TR-17-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	20-Jul-2025 12:15	20-Jul-2025 14:50	20-Jul-2025 14:50	20-Jul-2025 13:30	20-Jul-2025 10:45	
					WT2519853-001	WT2519853-002	WT2519853-003	WT2519853-004	WT2519853-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%	5.8	7.6	8.6	10.6	13.3	
Passing (0.125mm)	----	E182/SK	1.0	%	8.0	10.9	11.7	17.5	18.2	
Passing (0.149mm)	----	E182/SK	1.0	%	13.2	15.5	16.5	22.7	23.5	
Passing (0.250mm)	----	E182/SK	1.0	%	34.9	35.2	36.4	44.8	45.6	
Passing (0.420mm)	----	E182/SK	1.0	%	67.9	62.0	65.6	64.5	66.1	
Passing (0.50mm)	----	E182/SK	1.0	%	83.4	74.7	79.3	73.8	75.8	
Passing (0.841mm)	----	E182/SK	1.0	%	93.2	82.4	88.0	82.3	84.5	
Passing (1.0mm)	----	E182/SK	1.0	%	97.8	86.0	92.0	86.2	88.6	
Passing (19mm)	----	E181/SK	1.0	%	100.0	90.7	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	99.7	88.4	95.3	90.3	93.9	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	100.0	89.6	98.1	96.8	98.3	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	90.7	100.0	100.0	100.0	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	1440	1720	2020	2720	5330	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.25	0.36	0.44	0.51	0.54	
Barium	7440-39-3	E440/WT	0.50	mg/kg	5.88	5.76	6.91	11.0	20.9	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-13-S_2025	TR-15-S_2025	TR-15-S_2025R	TR-16-S_2025	TR-17-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	20-Jul-2025 12:15	20-Jul-2025 14:50	20-Jul-2025 14:50	20-Jul-2025 13:30	20-Jul-2025 10:45	
					WT2519853-001	WT2519853-002	WT2519853-003	WT2519853-004	WT2519853-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	0.12	0.27	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	8.4	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	
Calcium	7440-70-2	E440/WT	50	mg/kg	611	1060	1350	964	1300	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	9.53	6.77	7.42	10.0	20.6	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.10	1.50	1.81	1.95	4.41	
Copper	7440-50-8	E440/WT	0.50	mg/kg	2.02	1.64	1.95	2.47	7.25	
Iron	7439-89-6	E440/WT	50	mg/kg	4320	4240	4650	5720	10800	
Lead	7439-92-1	E440/WT	0.50	mg/kg	1.21	2.28	2.29	2.61	3.02	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	2.3	4.2	4.5	5.7	10.0	
Magnesium	7439-95-4	E440/WT	20	mg/kg	989	1500	1670	1370	4610	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	27.4	61.5	77.8	75.7	130	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0054	<0.0050	<0.0050	0.0067	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	0.11	<0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	3.49	3.63	4.63	4.68	14.6	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	127	164	242	251	244	
Potassium	7440-09-7	E440/WT	100	mg/kg	230	280	330	410	880	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	<50	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-13-S_2025 ----	TR-15-S_2025 ----	TR-15-S_2025R ----	TR-16-S_2025 ----	TR-17-S_2025 ----
					Client sampling date / time	20-Jul-2025 12:15	20-Jul-2025 14:50	20-Jul-2025 14:50	20-Jul-2025 13:30	20-Jul-2025 10:45
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-001	WT2519853-002	WT2519853-003	WT2519853-004	WT2519853-005	
					Result	Result	Result	Result	Result	
Metals										
Strontium	7440-24-6	E440/WT	0.50	mg/kg	1.97	1.86	2.22	1.95	3.85	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	<0.050	<0.050	0.062	0.066	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	91.7	140	174	231	296	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.214	0.196	0.280	0.434	0.391	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	5.84	8.41	8.92	9.55	18.2	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	4.2	6.7	7.5	6.9	15.2	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	1.6	<1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-20-S_2025 ----	TR-21-S_2025 ----	MP-16-S_2025 ----	MP-17-S_2025 ----	MP-18-S_2025 ----
					Client sampling date / time	20-Jul-2025 09:05	20-Jul-2025 09:45	19-Jul-2025 11:20	19-Jul-2025 10:20	19-Jul-2025 09:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-006	WT2519853-007	WT2519853-008	WT2519853-009	WT2519853-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	8.35	30.5	20.0	17.0	51.0	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	4.77	6.71	7.06	6.80	6.61	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	12.7	2.7	10.3	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-20-S_2025 ----	TR-21-S_2025 ----	MP-16-S_2025 ----	MP-17-S_2025 ----	MP-18-S_2025 ----
					Client sampling date / time	20-Jul-2025 09:05	20-Jul-2025 09:45	19-Jul-2025 11:20	19-Jul-2025 10:20	19-Jul-2025 09:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-006	WT2519853-007	WT2519853-008	WT2519853-009	WT2519853-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	5.4	4.1	2.7	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	6.7	4.1	9.7	12.1	4.7	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	37.0	46.5	24.6	31.6	15.0	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	42.0	35.3	21.4	21.7	14.8	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	7.0	3.8	3.1	3.9	3.6	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	3.1	5.4	11.0	12.0	24.6	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	3.6	4.5	9.9	9.8	22.5	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	2.2	2.1	1.8	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	<1.0	1.8	1.3	1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	<1.0	2.2	2.1	1.8	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	<1.0	2.5	2.4	2.2	
Passing (0.020mm)	----	E184/SK	1.0	%	1.9	3.2	7.7	8.8	13.4	
Passing (0.0312mm)	----	E184/SK	1.0	%	3.1	5.4	13.2	14.1	26.4	
Passing (0.05mm)	----	E182/SK	1.0	%	5.2	9.2	22.5	23.1	48.1	
Passing (0.063mm)	----	E182/SK	1.0	%	6.7	9.9	23.1	23.9	48.9	
Passing (0.075mm)	----	E182/SK	1.0	%	8.0	10.7	23.7	24.7	49.6	
Passing (0.125mm)	----	E182/SK	1.0	%	13.7	13.7	26.2	27.8	52.5	
Passing (0.149mm)	----	E182/SK	1.0	%	21.8	20.5	30.3	32.0	55.4	
Passing (0.250mm)	----	E182/SK	1.0	%	55.7	49.0	47.6	49.5	67.3	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-20-S_2025	TR-21-S_2025	MP-16-S_2025	MP-17-S_2025	MP-18-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	20-Jul-2025 09:05	20-Jul-2025 09:45	19-Jul-2025 11:20	19-Jul-2025 10:20	19-Jul-2025 09:15	
					WT2519853-006	WT2519853-007	WT2519853-008	WT2519853-009	WT2519853-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	----	E182/SK	1.0	%	80.8	80.6	64.4	71.0	77.5	
Passing (0.50mm)	----	E182/SK	1.0	%	92.7	95.5	72.2	81.1	82.3	
Passing (0.841mm)	----	E182/SK	1.0	%	97.2	98.3	78.8	89.3	85.5	
Passing (1.0mm)	----	E182/SK	1.0	%	99.4	99.6	81.9	93.2	87.0	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	99.8	99.9	87.3	97.3	89.7	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	100.0	100.0	91.8	99.2	90.6	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	100.0	95.8	100.0	93.4	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	1500	1530	5720	1940	6010	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.36	0.66	0.75	0.39	2.34	
Barium	7440-39-3	E440/WT	0.50	mg/kg	5.26	8.67	12.2	4.82	17.8	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	<0.10	0.11	0.28	0.13	0.36	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	14.3	6.0	13.7	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	0.043	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	TR-20-S_2025	TR-21-S_2025	MP-16-S_2025	MP-17-S_2025	MP-18-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	20-Jul-2025 09:05	20-Jul-2025 09:45	19-Jul-2025 11:20	19-Jul-2025 10:20	19-Jul-2025 09:15	
					WT2519853-006	WT2519853-007	WT2519853-008	WT2519853-009	WT2519853-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	591	2370	19200	3260	8360	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	7.31	3.62	28.4	4.45	10.6	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.66	2.00	3.91	1.20	3.54	
Copper	7440-50-8	E440/WT	0.50	mg/kg	1.28	3.72	5.12	2.29	11.7	
Iron	7439-89-6	E440/WT	50	mg/kg	4340	2840	9800	3860	8870	
Lead	7439-92-1	E440/WT	0.50	mg/kg	1.83	1.98	3.33	2.04	7.76	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	3.3	2.3	15.1	5.8	13.6	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1200	846	12200	2360	5350	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	52.1	54.3	144	62.6	212	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0066	0.0111	0.0079	0.0251	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	0.15	<0.10	0.36	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	3.21	2.68	18.2	2.71	6.92	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	190	123	228	186	449	
Potassium	7440-09-7	E440/WT	100	mg/kg	260	280	990	330	1140	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	54	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.00	2.54	13.6	3.10	8.04	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	<0.050	0.099	<0.050	0.108	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					TR-20-S_2025 ----	TR-21-S_2025 ----	MP-16-S_2025 ----	MP-17-S_2025 ----	MP-18-S_2025 ----
Client sampling date / time					20-Jul-2025 09:05	20-Jul-2025 09:45	19-Jul-2025 11:20	19-Jul-2025 10:20	19-Jul-2025 09:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-006	WT2519853-007	WT2519853-008	WT2519853-009	WT2519853-010
					Result	Result	Result	Result	Result
Metals									
Titanium	7440-32-6	E440/WT	1.0	mg/kg	166	39.4	346	81.7	182
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.242	0.819	0.639	0.460	13.3
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	6.90	4.55	16.5	5.76	15.2
Zinc	7440-66-6	E440/WT	2.0	mg/kg	5.3	4.5	17.2	9.0	17.4
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	1.6	<1.0	2.5

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MP-18-S_2025R ----	MP-30-S_2025 ----	----	----	----
Client sampling date / time					19-Jul-2025 09:15	19-Jul-2025 11:50	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-011	WT2519853-012	----	----	----
					Result	Result	----	----	----
Physical Tests									
Moisture	----	E144/WT	0.25	%	51.3	18.5	----	----	----
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.53	6.69	----	----	----
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	1.7	5.6	----	----	----
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	3.6	3.8	----	----	----
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	7.5	10.0	----	----	----
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	27.3	32.9	----	----	----
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	25.9	26.2	----	----	----



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-18-S_2025R	MP-30-S_2025	----	----	----
					Client sampling date / time	19-Jul-2025 09:15	19-Jul-2025 11:50	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-011	WT2519853-012	----	----	----	
					Result	Result	----	----	----	
Particle Size										
Sand (0.125mm - 0.063mm)	----	EC184/SK	1.0	%	5.7	4.9	----	----	----	
Silt (0.0312mm - 0.004mm)	----	EC184/SK	1.0	%	14.0	7.7	----	----	----	
Silt (0.063mm - 0.0312mm)	----	EC184/SK	1.0	%	11.9	6.8	----	----	----	
Clay (<0.004mm)	----	EC184/SK	1.0	%	2.4	2.1	----	----	----	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	----	----	----	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	1.6	1.6	----	----	----	
Passing (0.004mm)	----	E184/SK	1.0	%	2.4	2.1	----	----	----	
Passing (0.005mm)	----	E184/SK	1.0	%	2.8	2.3	----	----	----	
Passing (0.020mm)	----	E184/SK	1.0	%	10.1	6.4	----	----	----	
Passing (0.0312mm)	----	E184/SK	1.0	%	16.4	9.8	----	----	----	
Passing (0.05mm)	----	E182/SK	1.0	%	27.0	15.6	----	----	----	
Passing (0.063mm)	----	E182/SK	1.0	%	28.3	16.6	----	----	----	
Passing (0.075mm)	----	E182/SK	1.0	%	29.4	17.6	----	----	----	
Passing (0.125mm)	----	E182/SK	1.0	%	34.0	21.5	----	----	----	
Passing (0.149mm)	----	E182/SK	1.0	%	39.0	26.5	----	----	----	
Passing (0.250mm)	----	E182/SK	1.0	%	59.9	47.7	----	----	----	
Passing (0.420mm)	----	E182/SK	1.0	%	78.5	70.1	----	----	----	
Passing (0.50mm)	----	E182/SK	1.0	%	87.2	80.6	----	----	----	
Passing (0.841mm)	----	E182/SK	1.0	%	92.3	87.4	----	----	----	
Passing (1.0mm)	----	E182/SK	1.0	%	94.7	90.6	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-18-S_2025R	MP-30-S_2025	----	----	----
					Client sampling date / time	19-Jul-2025 09:15	19-Jul-2025 11:50	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-011	WT2519853-012	----	----	----	
					Result	Result	----	----	----	
Percent Passing										
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (2.0mm)	---	E181/SK	1.0	%	98.3	94.4	----	----	----	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (4.75mm)	---	E181/SK	1.0	%	99.8	97.7	----	----	----	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (9.5mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	5740	5830	----	----	----	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	1.77	0.80	----	----	----	
Barium	7440-39-3	E440/WT	0.50	mg/kg	17.3	13.5	----	----	----	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.35	0.31	----	----	----	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Boron	7440-42-8	E440/WT	5.0	mg/kg	13.7	14.5	----	----	----	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.044	0.021	----	----	----	
Calcium	7440-70-2	E440/WT	50	mg/kg	7660	2900	----	----	----	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	9.93	26.3	----	----	----	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	3.51	4.10	----	----	----	
Copper	7440-50-8	E440/WT	0.50	mg/kg	10.8	5.36	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-18-S_2025R	MP-30-S_2025	----	----	----
					Client sampling date / time	19-Jul-2025 09:15	19-Jul-2025 11:50	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-011	WT2519853-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Iron	7439-89-6	E440/WT	50	mg/kg	8440	10200	----	----	----	
Lead	7439-92-1	E440/WT	0.50	mg/kg	6.33	3.63	----	----	----	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	13.4	15.3	----	----	----	
Magnesium	7439-95-4	E440/WT	20	mg/kg	4560	5250	----	----	----	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	189	147	----	----	----	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	0.0292	0.0101	----	----	----	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.34	0.21	----	----	----	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	6.30	16.3	----	----	----	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	442	231	----	----	----	
Potassium	7440-09-7	E440/WT	100	mg/kg	1100	1080	----	----	----	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Sodium	7440-23-5	E440/WT	50	mg/kg	52	<50	----	----	----	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	7.55	4.90	----	----	----	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	----	----	----	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.105	0.077	----	----	----	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	----	----	----	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	172	244	----	----	----	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	----	----	----	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	14.9	1.51	----	----	----	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	14.6	17.0	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
(Matrix: Soil/Solid)

					Client sample ID		MP-18-S_2025R	MP-30-S_2025	----	----	----
					Client sampling date / time		19-Jul-2025 09:15	19-Jul-2025 11:50	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519853-011	WT2519853-012	----	----	----	----	----
					Result	Result	----	----	----	----	----
Metals											
Zinc	7440-66-6	E440/WT	2.0	mg/kg	17.1	18.3	----	----	----	----	----
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	2.6	<1.0	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519853</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 16</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 31-Jul-2025 09:05</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-18-S_2025	E510	19-Jul-2025	28-Jul-2025	28 days	10 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-18-S_2025R	E510	19-Jul-2025	28-Jul-2025	28 days	10 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-13-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	8 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-15-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	8 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-15-S_2025R	E510	20-Jul-2025	28-Jul-2025	28 days	8 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-16-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	8 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-17-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	8 days	✔	29-Jul-2025	28 days	0 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-16-S_2025	E510	19-Jul-2025	28-Jul-2025	28 days	9 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-17-S_2025	E510	19-Jul-2025	28-Jul-2025	28 days	9 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-30-S_2025	E510	19-Jul-2025	28-Jul-2025	28 days	9 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-20-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	9 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag TR-21-S_2025	E510	20-Jul-2025	28-Jul-2025	28 days	9 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-18-S_2025	E440	19-Jul-2025	28-Jul-2025	180 days	10 days	✔	29-Jul-2025	180 days	10 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-18-S_2025R	E440	19-Jul-2025	28-Jul-2025	180 days	10 days	✔	29-Jul-2025	180 days	10 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-13-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	8 days	✔	29-Jul-2025	180 days	8 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag TR-15-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	8 days	✔	29-Jul-2025	180 days	8 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-15-S_2025R	E440	20-Jul-2025	28-Jul-2025	180 days	8 days	✔	29-Jul-2025	180 days	8 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-16-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	8 days	✔	29-Jul-2025	180 days	8 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-17-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	8 days	✔	29-Jul-2025	180 days	8 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-16-S_2025	E440	19-Jul-2025	28-Jul-2025	180 days	9 days	✔	29-Jul-2025	180 days	9 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-17-S_2025	E440	19-Jul-2025	28-Jul-2025	180 days	9 days	✔	29-Jul-2025	180 days	9 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-30-S_2025	E440	19-Jul-2025	28-Jul-2025	180 days	9 days	✔	29-Jul-2025	180 days	9 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-20-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	9 days	✔	29-Jul-2025	180 days	9 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag TR-21-S_2025	E440	20-Jul-2025	28-Jul-2025	180 days	9 days	✔	29-Jul-2025	180 days	9 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-16-S_2025	E185A	19-Jul-2025	----	----	----		30-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-17-S_2025	E185A	19-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-18-S_2025	E185A	19-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-18-S_2025R	E185A	19-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-30-S_2025	E185A	19-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag TR-13-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag TR-15-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag TR-15-S_2025R	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag TR-16-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag TR-17-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-20-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag TR-21-S_2025	E185A	20-Jul-2025	----	----	----		30-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-13-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-15-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-15-S_2025R	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-16-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-17-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-20-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag TR-21-S_2025	E184	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Percent Passing : Particle Size Analysis - Pipette Method										
LDPE bag MP-16-S_2025	E184	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔
Percent Passing : Particle Size Analysis - Pipette Method										
LDPE bag MP-17-S_2025	E184	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔
Percent Passing : Particle Size Analysis - Pipette Method										
LDPE bag MP-18-S_2025	E184	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔
Percent Passing : Particle Size Analysis - Pipette Method										
LDPE bag MP-18-S_2025R	E184	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔
Percent Passing : Particle Size Analysis - Pipette Method										
LDPE bag MP-30-S_2025	E184	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔
Percent Passing : Particle Size Analysis - Sieve <2mm										
LDPE bag TR-13-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔
Percent Passing : Particle Size Analysis - Sieve <2mm										
LDPE bag TR-15-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔
Percent Passing : Particle Size Analysis - Sieve <2mm										
LDPE bag TR-15-S_2025R	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔
Percent Passing : Particle Size Analysis - Sieve <2mm										
LDPE bag TR-16-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-17-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-20-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag TR-21-S_2025	E182	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-16-S_2025	E182	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-17-S_2025	E182	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-18-S_2025	E182	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-18-S_2025R	E182	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-30-S_2025	E182	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-13-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-15-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-15-S_2025R	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-16-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-17-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-20-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag TR-21-S_2025	E181	20-Jul-2025	28-Jul-2025	365 days	8 days	✔	28-Jul-2025	365 days	8 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-16-S_2025	E181	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-17-S_2025	E181	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-18-S_2025	E181	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-18-S_2025R	E181	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-30-S_2025	E181	19-Jul-2025	28-Jul-2025	365 days	9 days	✔	28-Jul-2025	365 days	9 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-16-S_2025	E144	19-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-17-S_2025	E144	19-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-18-S_2025	E144	19-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-18-S_2025R	E144	19-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-30-S_2025	E144	19-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-13-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-15-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-15-S_2025R	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-16-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-17-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-20-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag TR-21-S_2025	E144	20-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-13-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-15-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-15-S_2025R	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-16-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-17-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-20-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag TR-21-S_2025	E108A	20-Jul-2025	24-Jul-2025	30 days	4 days	✔	30-Jul-2025	30 days	4 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-16-S_2025	E108A	19-Jul-2025	24-Jul-2025	30 days	5 days	✔	30-Jul-2025	30 days	5 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-17-S_2025	E108A	19-Jul-2025	24-Jul-2025	30 days	5 days	✔	30-Jul-2025	30 days	5 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-18-S_2025	E108A	19-Jul-2025	24-Jul-2025	30 days	5 days	✔	30-Jul-2025	30 days	5 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-18-S_2025R	E108A	19-Jul-2025	24-Jul-2025	30 days	5 days	✔	30-Jul-2025	30 days	5 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-30-S_2025	E108A	19-Jul-2025	24-Jul-2025	30 days	5 days	✔	30-Jul-2025	30 days	5 days	✔	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2123810	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2123811	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131163	2	40	5.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131162	2	40	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2123809	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2123810	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2123811	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2131164	2	40	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131163	2	40	5.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131162	2	40	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2123809	2	20	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	2	20	10.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2123811	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2123809	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.

QUALITY CONTROL REPORT

Work Order	: WT2519853	Page	: 1 of 12
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 23-Jul-2025 09:30
PO	: 4500156571	Date Analysis Commenced	: 24-Jul-2025
C-O-C number	: ----	Issue Date	: 31-Jul-2025 09:05
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Waterloo Centralized Prep, Waterloo, Ontario
Colby Bingham	Laboratory Supervisor	Saskatoon Inorganics, Saskatoon, Saskatchewan
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Hedy Lai	Team Leader - Inorganics	Saskatoon Sask Soils, Saskatoon, Saskatchewan

Page : 2 of 12
Work Order : WT2519853
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2123810)											
WT2519853-002	TR-15-S_2025	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.86	5.85	0.171%	5%	----
Physical Tests (QC Lot: 2123811)											
WT2519853-001	TR-13-S_2025	Moisture	----	E144	0.25	%	12.8	11.6	9.80%	20%	----
Percent Passing (QC Lot: 2131159)											
FJ2502207-001	Anonymous	Passing (0.002mm)	----	E184	1.0	%	27.9	29.0	3.94%	15%	----
		Passing (0.004mm)	----	E184	1.0	%	35.0	35.8	2.35%	15%	----
		Passing (0.005mm)	----	E184	1.0	%	38.6	39.2	1.76%	15%	----
		Passing (0.020mm)	----	E184	1.0	%	71.2	70.8	0.636%	15%	----
		Passing (0.0312mm)	----	E184	1.0	%	78.0	77.6	0.523%	15%	----
Percent Passing (QC Lot: 2131161)											
FJ2502207-001	Anonymous	Passing (0.05mm)	----	E182	1.0	%	89.3	89.0	0.372%	15%	----
		Passing (0.063mm)	----	E182	1.0	%	90.4	90.2	0.281%	15%	----
		Passing (0.075mm)	----	E182	1.0	%	91.5	91.3	0.198%	15%	----
		Passing (0.125mm)	----	E182	1.0	%	95.8	95.9	0.126%	15%	----
		Passing (0.149mm)	----	E182	1.0	%	96.3	96.5	0.156%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	98.6	98.9	0.282%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	99.2	99.4	0.226%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	99.5	99.7	0.200%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	99.8	99.8	0.0858%	15%	----
Passing (1.0mm)	----	E182	1.0	%	99.9	99.9	0.0326%	15%	----		
Percent Passing (QC Lot: 2131162)											
WT2519854-004	Anonymous	Passing (0.002mm)	----	E184	1.0	%	3.5	3.5	0.0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	4.8	4.8	0.1	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	5.5	5.4	0.1	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	12.3	12.0	0.2	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	14.4	14.2	1.75%	15%	----
Percent Passing (QC Lot: 2131163)											
WT2519854-004	Anonymous	Passing (0.05mm)	----	E182	1.0	%	17.9	17.7	1.32%	15%	----
		Passing (0.063mm)	----	E182	1.0	%	19.5	19.3	1.14%	15%	----
		Passing (0.075mm)	----	E182	1.0	%	20.9	20.7	0.998%	15%	----



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Percent Passing (QC Lot: 2131163) - continued											
WT2519854-004	Anonymous	Passing (0.125mm)	----	E182	1.0	%	26.8	26.7	0.570%	15%	----
		Passing (0.149mm)	----	E182	1.0	%	30.3	30.1	0.720%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	44.9	44.4	1.10%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	60.4	58.9	2.53%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	67.7	65.7	2.98%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	77.5	75.4	2.71%	15%	----
		Passing (1.0mm)	----	E182	1.0	%	82.1	80.0	2.60%	15%	----
Metals (QC Lot: 2123808)											
WT2519853-001	TR-13-S_2025	Mercury	7439-97-6	E510	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
Metals (QC Lot: 2123809)											
WT2519853-001	TR-13-S_2025	Aluminum	7429-90-5	E440	50	mg/kg	1440	1500	4.46%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.25	0.20	0.05	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	5.88	6.02	2.29%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	611	710	15.0%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	9.53	7.45	24.4%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	1.10	1.21	9.70%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	2.02	2.20	0.18	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	4320	4970	13.8%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	1.21	1.23	0.02	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	2.3	2.6	0.3	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	989	1040	4.85%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	27.4	31.7	14.5%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	3.49	3.49	0.196%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	127	98	29	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	230	220	5	Diff <2x LOR	----
Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----		
Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----		
Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----		



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2123809) - continued											
WT2519853-001	TR-13-S_2025	Strontium	7440-24-6	E440	0.50	mg/kg	1.97	2.12	0.15	Diff <2x LOR	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	91.7	98.6	7.23%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.214	0.228	0.014	Diff <2x LOR	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	5.84	6.06	3.60%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	4.2	4.2	0.06	Diff <2x LOR	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2123811)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2123808)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2123809)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---

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Work Order : WT2519853
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2123809) - continued						
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2123810)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2123811)									
Moisture	---	E144	0.25	%	50 %	98.8	90.0	110	---
Metals (QCLot: 2123808)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	100	80.0	120	---
Metals (QCLot: 2123809)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	100	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	94.8	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	94.4	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	95.0	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	90.4	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	97.6	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	93.2	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	100	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	98.5	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	98.4	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	97.1	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	96.3	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	91.0	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	101	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	96.5	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	97.4	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	102	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.6	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	90.7	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.9	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	99.2	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	92.1	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2123809) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	94.9	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	93.9	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	97.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	98.1	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	100	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	98.3	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	91.3	80.0	120	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131159)									
QC-2131159-001	RM	Passing (0.002mm)	----	E184	22.5 %	98.9	74.1	126	----
QC-2131159-001	RM	Passing (0.004mm)	----	E184	25.1 %	98.3	76.8	123	----
QC-2131159-001	RM	Passing (0.005mm)	----	E184	26.5 %	98.1	77.9	122	----
QC-2131159-001	RM	Passing (0.020mm)	----	E184	41.8 %	94.3	85.8	114	----
QC-2131159-001	RM	Passing (0.0312mm)	----	E184	45.6 %	98.7	88.0	112	----
Percent Passing (QCLot: 2131160)									
QC-2131160-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131160-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Percent Passing (QCLot: 2131161)									
QC-2131161-001	RM	Passing (0.05mm)	----	E182	54.1 %	100	90.0	110	----
QC-2131161-001	RM	Passing (0.063mm)	----	E182	57.1 %	99.1	90.8	109	----
QC-2131161-001	RM	Passing (0.075mm)	----	E182	60.2 %	97.6	91.4	109	----
QC-2131161-001	RM	Passing (0.125mm)	----	E182	68.2 %	98.8	92.7	107	----
QC-2131161-001	RM	Passing (0.149mm)	----	E182	72 %	97.1	93.1	107	----
QC-2131161-001	RM	Passing (0.250mm)	----	E182	82.3 %	98.3	94.1	106	----
QC-2131161-001	RM	Passing (0.420mm)	----	E182	89.9 %	97.3	94.6	105	----
QC-2131161-001	RM	Passing (0.50mm)	----	E182	91.2 %	99.5	94.7	105	----
QC-2131161-001	RM	Passing (0.841mm)	----	E182	95.6 %	98.9	94.9	105	----
QC-2131161-001	RM	Passing (1.0mm)	----	E182	96.3 %	100	94.9	105	----
Percent Passing (QCLot: 2131162)									
QC-2131162-001	RM	Passing (0.002mm)	----	E184	22.5 %	106	74.1	126	----
QC-2131162-001	RM	Passing (0.004mm)	----	E184	25.1 %	106	76.8	123	----
QC-2131162-001	RM	Passing (0.005mm)	----	E184	26.5 %	106	77.9	122	----
QC-2131162-001	RM	Passing (0.020mm)	----	E184	41.8 %	102	85.8	114	----
QC-2131162-001	RM	Passing (0.0312mm)	----	E184	45.6 %	103	88.0	112	----
Percent Passing (QCLot: 2131163)									



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131163) - continued									
QC-2131163-001	RM	Passing (0.05mm)	----	E182	54.1 %	102	90.0	110	----
QC-2131163-001	RM	Passing (0.063mm)	----	E182	57.1 %	101	90.8	109	----
QC-2131163-001	RM	Passing (0.075mm)	----	E182	60.2 %	99.2	91.4	109	----
QC-2131163-001	RM	Passing (0.125mm)	----	E182	68.2 %	101	92.7	107	----
QC-2131163-001	RM	Passing (0.149mm)	----	E182	72 %	98.7	93.1	107	----
QC-2131163-001	RM	Passing (0.250mm)	----	E182	82.3 %	99.0	94.1	106	----
QC-2131163-001	RM	Passing (0.420mm)	----	E182	89.9 %	97.5	94.6	105	----
QC-2131163-001	RM	Passing (0.50mm)	----	E182	91.2 %	99.4	94.7	105	----
QC-2131163-001	RM	Passing (0.841mm)	----	E182	95.6 %	98.6	94.9	105	----
QC-2131163-001	RM	Passing (1.0mm)	----	E182	96.3 %	99.7	94.9	105	----
Percent Passing (QCLot: 2131164)									
QC-2131164-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Metals (QCLot: 2123808)									
QC-2123808-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	102	70.0	130	----
Metals (QCLot: 2123809)									
QC-2123809-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	105	70.0	130	----
QC-2123809-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	111	70.0	130	----
QC-2123809-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	99.3	70.0	130	----
QC-2123809-003	RM	Barium	7440-39-3	E440	788 mg/kg	97.9	70.0	130	----
QC-2123809-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	118	70.0	130	----
QC-2123809-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	110	70.0	130	----
QC-2123809-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	95.1	70.0	130	----
QC-2123809-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	112	70.0	130	----
QC-2123809-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	100	70.0	130	----
QC-2123809-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	99.2	70.0	130	----
QC-2123809-003	RM	Copper	7440-50-8	E440	969 mg/kg	99.9	70.0	130	----
QC-2123809-003	RM	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Lead	7439-92-1	E440	919 mg/kg	111	70.0	130	----
QC-2123809-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	119	70.0	130	----
QC-2123809-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	103	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2123809) - continued									
QC-2123809-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	114	70.0	130	----
QC-2123809-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	103	70.0	130	----
QC-2123809-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	100	70.0	130	----
QC-2123809-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	98.7	70.0	130	----
QC-2123809-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	99.3	60.0	140	----
QC-2123809-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	108	70.0	130	----
QC-2123809-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2123809-003	RM	Strontium	7440-24-6	E440	41 mg/kg	113	70.0	130	----
QC-2123809-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	103	50.0	150	----
QC-2123809-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	112	70.0	130	----
QC-2123809-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	100	40.0	160	----
QC-2123809-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	127	70.0	130	----
QC-2123809-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	110	70.0	130	----
QC-2123809-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	99.5	70.0	130	----
QC-2123809-003	RM	Zinc	7440-66-6	E440	828 mg/kg	98.5	70.0	130	----
QC-2123809-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	128	70.0	130	----

507.338
AD



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 666 9878

COC Number: 2

Page

Environmental Division
Waterloo
Work Order Reference
WT2519853



1 519 866 8971

Report To EDI - Environmental Dynamics Inc c/o Barrinland Iron Mine Daniel Hill 403-478-1040 Company address below will appear on the final report 400-622 5 Avenue SW Calgary, AB Postal Code: T2N 0M8 Invoice To: Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Company: Barrinland Iron Mine Corporation Accounts Payable Project Information ALS Account # / Quote #: 25C0127_2025, Metals_Sampling Job #: 450156571 PO / A/E: 450156571 Location:		Reports / Receipts Select Report Format: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (ODT/M) Merge COC/CI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO Compare Results to Chain of Report - provide details below if box checked Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: dhill@edidynamics.com Email 2: pauld@edidynamics.com Email 3:		Invoice Recipients Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: ari@barrinland.com Email 2: environmental.support@barrinland.com Email 3:					
ALS Lab Work Order # (lab use only): 1078519853 ALS Sample # (lab use only): TR-15-S_2025 TR-15-S_2025 TR-15-S_2025R TR-16-S_2025 TR-17-S_2025 TR-20-S_2025 TR-21-S_2025 MP-16-S_2025 MP-17-S_2025 MP-18-S_2025 MP-18-S_2025R MP-30-S_2025		Sample Identification (fills automatically) (SYS_SAMP_E_CODE) TR-15-S_2025 TR-15-S_2025 TR-15-S_2025R TR-16-S_2025 TR-17-S_2025 TR-20-S_2025 TR-21-S_2025 MP-16-S_2025 MP-17-S_2025 MP-18-S_2025 MP-18-S_2025R MP-30-S_2025		Sample Location (SYS_LOC_CODE) 20-Jul-25 20-Jul-25 20-Jul-25 20-Jul-25 20-Jul-25 20-Jul-25 19-Jul-25 19-Jul-25 19-Jul-25 19-Jul-25 19-Jul-25		Time (hh:mm) 12:15 14:50 14:50 13:30 10:45 9:05 9:45 11:20 10:20 9:15 9:15 11:50		Field Matrix SO SO SO SO SO SO SO SO SO SO SO	
Drinking Water (DW) Samplers (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Notes / Specify Limits for result evaluation by selecting from drop-down below (Exact COC only)							
SHIPMENT RELEASE (client use) Released by: Bailey Durant Date: 22-Jul-2025 Time: 08:00		INITIAL SHIPMENT RECEPTION (lab use only) Received by: Date: Time:		NUMBER OF CONTAINERS HG-200.2-CVAA-WT (Metals in Soil) MET-200.2-CCMS-WT (Metals in Soil) MOISTURE-WT (Physical Test) PARTICLE SIZE/TEXTURE (Physical Test) PH-WT (Physical Test)					
SHIPMENT RECEIPT DETAILS (lab use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING JAR/IMPACT Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Cooler Custody Seals Intact: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Initial Cooler Temperatures °C: <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A Final Cooler Temperatures °C: <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A		SHIPMENT RECEIPT (lab use only) Received by: <i>AD</i> Date: 23 Jul 25 Time: 09:50		ANALYSIS REQUEST Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below For tests that can not be performed according to the TAT requested, you will be contacted Turnaround Time (TAT) Requested: <input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharge apply <input type="checkbox"/> 4 day (P4) if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day (E1) if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> Same day (E2) if received by 10am M-F - 200% rush surcharge minimum <input type="checkbox"/> Same day (E3) if received on weekdays, Saturday 10:00pm and 100% rush surcharge					

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

WHITE - LABORATORY COPY
 YELLOW - CLIENT COPY



CERTIFICATE OF ANALYSIS

Work Order	: WT2519854		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 24-Jul-2025
Sampler	: BD/AL	Issue Date	: 30-Jul-2025 18:09
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Amanda Ganouri-Lumsden		Centralized Prep, Waterloo, Ontario
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan
Nik Perkio		Metals, Waterloo, Ontario
Nik Perkio		Inorganics, Waterloo, Ontario
Niral Patel		Centralized Prep, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

PSAL:Sample 003,009,011: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-01-S_2025 ----	MS-02-S_2025 ----	MS-05-S_2025 ----	MS-11-S_2025 ----	MS-12-S_2025 ----
					Client sampling date / time	13-Jul-2025 14:00	13-Jul-2025 14:45	16-Jul-2025 10:10	13-Jul-2025 15:30	14-Jul-2025 08:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-001	WT2519854-002	WT2519854-003	WT2519854-004	WT2519854-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	7.24	27.0	23.2	11.3	10.1	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.36	7.01	6.63	6.95	6.11	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	17.2	9.0	1.9	10.9	30.1	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	10.4	2.7	6.0	7.0	7.0	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	21.4	10.8	11.3	14.4	8.3	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	29.1	32.2	24.6	22.8	23.7	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	12.5	30.3	22.1	18.1	18.4	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	3.4	5.6	5.4	7.3	5.1	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	3.4	5.1	14.3	9.6	4.0	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	2.6	4.3	11.4	5.1	3.4	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	<1.0	3.0	4.8	<1.0	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	<1.0	2.0	3.5	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	<1.0	3.0	4.8	<1.0	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	1.0	3.5	5.5	<1.0	
Passing (0.020mm)	----	E184/SK	1.0	%	2.4	3.2	11.1	12.3	2.7	
Passing (0.0312mm)	----	E184/SK	1.0	%	3.4	5.1	17.3	14.4	4.0	
Passing (0.05mm)	----	E182/SK	1.0	%	5.2	8.2	27.5	17.9	6.3	
Passing (0.063mm)	----	E182/SK	1.0	%	6.0	9.4	28.7	19.5	7.4	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-01-S_2025 ----	MS-02-S_2025 ----	MS-05-S_2025 ----	MS-11-S_2025 ----	MS-12-S_2025 ----
					Client sampling date / time	13-Jul-2025 14:00	13-Jul-2025 14:45	16-Jul-2025 10:10	13-Jul-2025 15:30	14-Jul-2025 08:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-001	WT2519854-002	WT2519854-003	WT2519854-004	WT2519854-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%	6.6	10.5	29.7	20.9	8.4	
Passing (0.125mm)	----	E182/SK	1.0	%	9.4	15.0	34.1	26.8	12.5	
Passing (0.149mm)	----	E182/SK	1.0	%	11.8	20.8	38.3	30.3	16.0	
Passing (0.250mm)	----	E182/SK	1.0	%	21.9	45.3	56.2	44.9	30.9	
Passing (0.420mm)	----	E182/SK	1.0	%	41.7	67.2	73.0	60.4	47.1	
Passing (0.50mm)	----	E182/SK	1.0	%	51.0	77.5	80.8	67.7	54.6	
Passing (0.841mm)	----	E182/SK	1.0	%	65.6	84.8	88.5	77.5	60.3	
Passing (1.0mm)	----	E182/SK	1.0	%	72.4	88.3	92.1	82.1	62.9	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	82.8	91.0	98.1	89.1	69.9	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	92.8	92.6	100.0	94.5	81.1	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	96.9	95.3	100.0	98.9	90.2	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	3690	1150	6860	4230	2950	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.75	1.73	1.93	0.67	0.76	
Barium	7440-39-3	E440/WT	0.50	mg/kg	12.1	6.89	26.1	17.2	9.99	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-01-S_2025 ----	MS-02-S_2025 ----	MS-05-S_2025 ----	MS-11-S_2025 ----	MS-12-S_2025 ----
					Client sampling date / time	13-Jul-2025 14:00	13-Jul-2025 14:45	16-Jul-2025 10:10	13-Jul-2025 15:30	14-Jul-2025 08:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-001	WT2519854-002	WT2519854-003	WT2519854-004	WT2519854-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.13	<0.10	0.33	0.19	0.18	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	0.37	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	11.2	6.3	<5.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.051	<0.020	0.049	<0.020	0.032	
Calcium	7440-70-2	E440/WT	50	mg/kg	915	10300	4630	2300	1450	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	46.5	8.67	28.9	19.0	25.0	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	5.45	2.17	5.70	4.01	3.98	
Copper	7440-50-8	E440/WT	0.50	mg/kg	7.51	5.20	18.7	5.05	4.63	
Iron	7439-89-6	E440/WT	50	mg/kg	12000	3690	14600	10900	9390	
Lead	7439-92-1	E440/WT	0.50	mg/kg	3.60	1.75	6.69	3.36	2.84	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	6.2	<2.0	12.1	8.8	5.2	
Magnesium	7439-95-4	E440/WT	20	mg/kg	5840	6680	6300	3930	3830	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	129	103	241	132	146	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0080	0.0187	<0.0050	<0.0050	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.14	<0.10	0.36	<0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	51.9	15.8	29.3	10.8	32.4	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	212	171	352	433	274	
Potassium	7440-09-7	E440/WT	100	mg/kg	430	170	1480	960	420	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	61	99	<50	



Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-01-S_2025 ----	MS-02-S_2025 ----	MS-05-S_2025 ----	MS-11-S_2025 ----	MS-12-S_2025 ----
Client sampling date / time					13-Jul-2025 14:00	13-Jul-2025 14:45	16-Jul-2025 10:10	13-Jul-2025 15:30	14-Jul-2025 08:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-001	WT2519854-002	WT2519854-003	WT2519854-004	WT2519854-005
					Result	Result	Result	Result	Result
Metals									
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.06	3.85	4.58	4.32	2.81
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.052	<0.050	0.150	0.084	0.052
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg	307	83.0	475	543	249
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.612	0.422	1.64	0.529	0.546
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	17.6	5.77	21.2	19.3	11.9
Zinc	7440-66-6	E440/WT	2.0	mg/kg	40.6	4.4	20.6	14.8	16.4
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	3.7	4.9	<1.0

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-12-S_2025R ----	MS-17-S_2025 ----	MS-17-S_2025R ----	MS-18-S_2025 ----	MS-19-S_2025 ----
Client sampling date / time					14-Jul-2025 08:00	16-Jul-2025 14:00	16-Jul-2025 14:00	14-Jul-2025 15:20	14-Jul-2025 16:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-006	WT2519854-007	WT2519854-008	WT2519854-009	WT2519854-010
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/WT	0.25	%	8.91	14.2	26.4	21.4	19.8
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	5.79	5.89	5.63	5.96	5.39
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	26.0	2.3	21.0	<1.0	2.1



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-12-S_2025R	MS-17-S_2025	MS-17-S_2025R	MS-18-S_2025	MS-19-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-006	WT2519854-007	WT2519854-008	WT2519854-009	WT2519854-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	8.2	4.4	5.6	1.4	1.0	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	7.5	18.8	17.7	10.0	6.3	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	30.0	29.1	25.9	43.4	42.2	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	19.3	21.9	17.0	28.8	34.6	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	3.7	6.2	4.3	5.6	5.8	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	2.9	8.4	3.6	4.1	3.0	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	2.4	7.7	3.8	4.9	3.8	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	1.2	1.1	1.0	1.2	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	<1.0	<1.0	<1.0	1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	1.2	1.1	1.0	1.2	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	1.5	1.2	1.1	1.2	
Passing (0.020mm)	----	E184/SK	1.0	%	2.0	5.7	3.0	2.9	2.7	
Passing (0.0312mm)	----	E184/SK	1.0	%	2.9	9.6	4.7	5.1	4.2	
Passing (0.05mm)	----	E182/SK	1.0	%	4.5	16.0	7.6	8.8	6.8	
Passing (0.063mm)	----	E182/SK	1.0	%	5.3	17.3	8.5	10.0	8.0	
Passing (0.075mm)	----	E182/SK	1.0	%	6.0	18.5	9.3	11.1	9.2	
Passing (0.125mm)	----	E182/SK	1.0	%	9.0	23.5	12.8	15.6	13.8	
Passing (0.149mm)	----	E182/SK	1.0	%	12.7	27.7	16.0	21.1	20.4	
Passing (0.250mm)	----	E182/SK	1.0	%	28.3	45.4	29.8	44.4	48.4	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-12-S_2025R	MS-17-S_2025	MS-17-S_2025R	MS-18-S_2025	MS-19-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	14-Jul-2025 08:00	16-Jul-2025 14:00	16-Jul-2025 14:00	14-Jul-2025 15:20	14-Jul-2025 16:05	
					WT2519854-006	WT2519854-007	WT2519854-008	WT2519854-009	WT2519854-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	----	E182/SK	1.0	%	48.7	65.2	47.4	73.9	77.1	
Passing (0.50mm)	----	E182/SK	1.0	%	58.3	74.5	55.7	87.8	90.6	
Passing (0.841mm)	----	E182/SK	1.0	%	63.4	87.3	67.8	94.6	94.9	
Passing (1.0mm)	----	E182/SK	1.0	%	65.8	93.3	73.4	97.8	96.9	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	85.5	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	74.0	97.7	79.0	99.2	97.9	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	84.7	98.8	80.5	99.4	98.2	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	95.3	100.0	81.0	100.0	98.2	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2580	3270	2710	1970	1540	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.70	0.83	1.13	0.35	0.26	
Barium	7440-39-3	E440/WT	0.50	mg/kg	8.99	10.8	16.1	9.33	6.71	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.17	0.14	0.11	<0.10	<0.10	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	0.26	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.026	<0.020	<0.020	<0.020	<0.020	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-12-S_2025R	MS-17-S_2025	MS-17-S_2025R	MS-18-S_2025	MS-19-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	14-Jul-2025 08:00	16-Jul-2025 14:00	16-Jul-2025 14:00	14-Jul-2025 15:20	14-Jul-2025 16:05	
					WT2519854-006	WT2519854-007	WT2519854-008	WT2519854-009	WT2519854-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	1050	1240	1250	1580	791	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	18.3	19.2	23.8	11.4	9.59	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	3.79	3.52	3.48	2.00	2.45	
Copper	7440-50-8	E440/WT	0.50	mg/kg	5.52	3.65	4.16	2.99	1.67	
Iron	7439-89-6	E440/WT	50	mg/kg	8470	7330	6480	6520	5150	
Lead	7439-92-1	E440/WT	0.50	mg/kg	3.16	2.93	2.56	2.44	1.99	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	4.5	6.8	4.6	2.5	2.1	
Magnesium	7439-95-4	E440/WT	20	mg/kg	2670	3070	4160	1720	976	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	96.5	103	92.4	55.6	63.3	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0051	0.0057	0.0063	0.0058	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	0.23	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	29.7	15.5	23.2	8.31	6.54	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	266	214	202	218	219	
Potassium	7440-09-7	E440/WT	100	mg/kg	520	440	340	290	200	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	<50	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.34	1.94	1.84	2.57	2.21	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-12-S_2025R ----	MS-17-S_2025 ----	MS-17-S_2025R ----	MS-18-S_2025 ----	MS-19-S_2025 ----
					Client sampling date / time	14-Jul-2025 08:00	16-Jul-2025 14:00	16-Jul-2025 14:00	14-Jul-2025 15:20	14-Jul-2025 16:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-006	WT2519854-007	WT2519854-008	WT2519854-009	WT2519854-010	
					Result	Result	Result	Result	Result	
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg	265	243	221	220	175	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.697	0.416	0.414	0.668	0.365	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	11.7	12.4	11.1	9.93	8.18	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	10.1	13.8	11.8	6.8	3.8	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-20-S_2025 ----	MS-21-S_2025 ----	----	----	----
					Client sampling date / time	14-Jul-2025 08:45	14-Jul-2025 09:25	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-011	WT2519854-012	----	----	----	
					Result	Result	----	----	----	
Physical Tests										
Moisture	----	E144/WT	0.25	%	22.0	26.1	----	----	----	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.06	7.05	----	----	----	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	<1.0	15.5	----	----	----	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	<1.0	8.1	----	----	----	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	4.2	10.5	----	----	----	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	18.8	24.9	----	----	----	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	38.5	21.3	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-20-S_2025	MS-21-S_2025	----	----	----
					Client sampling date / time	14-Jul-2025 08:45	14-Jul-2025 09:25	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-011	WT2519854-012	----	----	----	
					Result	Result	----	----	----	
Particle Size										
Sand (0.125mm - 0.063mm)	----	EC184/SK	1.0	%	13.7	6.2	----	----	----	
Silt (0.0312mm - 0.004mm)	----	EC184/SK	1.0	%	10.7	5.8	----	----	----	
Silt (0.063mm - 0.0312mm)	----	EC184/SK	1.0	%	10.0	6.5	----	----	----	
Clay (<0.004mm)	----	EC184/SK	1.0	%	3.5	1.2	----	----	----	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	----	----	----	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	2.6	1.0	----	----	----	
Passing (0.004mm)	----	E184/SK	1.0	%	3.5	1.2	----	----	----	
Passing (0.005mm)	----	E184/SK	1.0	%	3.9	1.3	----	----	----	
Passing (0.020mm)	----	E184/SK	1.0	%	10.0	4.0	----	----	----	
Passing (0.0312mm)	----	E184/SK	1.0	%	14.2	7.0	----	----	----	
Passing (0.05mm)	----	E182/SK	1.0	%	21.3	12.2	----	----	----	
Passing (0.063mm)	----	E182/SK	1.0	%	24.2	13.5	----	----	----	
Passing (0.075mm)	----	E182/SK	1.0	%	26.8	14.7	----	----	----	
Passing (0.125mm)	----	E182/SK	1.0	%	37.9	19.7	----	----	----	
Passing (0.149mm)	----	E182/SK	1.0	%	45.3	23.8	----	----	----	
Passing (0.250mm)	----	E182/SK	1.0	%	76.4	41.0	----	----	----	
Passing (0.420mm)	----	E182/SK	1.0	%	89.2	58.0	----	----	----	
Passing (0.50mm)	----	E182/SK	1.0	%	95.2	65.9	----	----	----	
Passing (0.841mm)	----	E182/SK	1.0	%	98.1	73.1	----	----	----	
Passing (1.0mm)	----	E182/SK	1.0	%	99.4	76.4	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-20-S_2025	MS-21-S_2025	----	----	----
					Client sampling date / time	14-Jul-2025 08:45	14-Jul-2025 09:25	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-011	WT2519854-012	----	----	----	
					Result	Result	----	----	----	
Percent Passing										
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (2.0mm)	---	E181/SK	1.0	%	100.0	84.5	----	----	----	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (4.75mm)	---	E181/SK	1.0	%	100.0	90.9	----	----	----	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (9.5mm)	---	E181/SK	1.0	%	100.0	95.5	----	----	----	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2120	3940	----	----	----	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	2.20	0.45	----	----	----	
Barium	7440-39-3	E440/WT	0.50	mg/kg	15.7	16.2	----	----	----	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.20	0.18	----	----	----	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Boron	7440-42-8	E440/WT	5.0	mg/kg	6.1	8.2	----	----	----	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	0.022	<0.020	----	----	----	
Calcium	7440-70-2	E440/WT	50	mg/kg	1170	2570	----	----	----	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	6.19	16.1	----	----	----	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	8.45	3.18	----	----	----	
Copper	7440-50-8	E440/WT	0.50	mg/kg	11.1	5.54	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-20-S_2025	MS-21-S_2025	----	----	----
					Client sampling date / time	14-Jul-2025 08:45	14-Jul-2025 09:25	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-011	WT2519854-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Iron	7439-89-6	E440/WT	50	mg/kg	10400	9280	----	----	----	
Lead	7439-92-1	E440/WT	0.50	mg/kg	5.90	2.82	----	----	----	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	3.6	8.3	----	----	----	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1110	3240	----	----	----	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	365	92.6	----	----	----	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	<0.0050	----	----	----	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	8.23	8.26	----	----	----	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	220	313	----	----	----	
Potassium	7440-09-7	E440/WT	100	mg/kg	680	910	----	----	----	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	56	----	----	----	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	1.53	3.98	----	----	----	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	----	----	----	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.064	0.081	----	----	----	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	----	----	----	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	77.6	393	----	----	----	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	----	----	----	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.261	1.21	----	----	----	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	6.97	16.6	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
(Matrix: Soil/Solid)

					Client sample ID		MS-20-S_2025	MS-21-S_2025	----	----	----
					Client sampling date / time		14-Jul-2025 08:45	14-Jul-2025 09:25	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519854-011	WT2519854-012	----	----	----	----	----
					Result	Result	----	----	----	----	----
Metals											
Zinc	7440-66-6	E440/WT	2.0	mg/kg	7.5	12.2	----	----	----	----	----
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	2.0	1.1	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519854</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 16</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 30-Jul-2025 18:09</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-17-S_2025	E510	16-Jul-2025	28-Jul-2025	28 days	12 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-17-S_2025R	E510	16-Jul-2025	28-Jul-2025	28 days	12 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-05-S_2025	E510	16-Jul-2025	28-Jul-2025	28 days	13 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-01-S_2025	E510	13-Jul-2025	28-Jul-2025	28 days	15 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-02-S_2025	E510	13-Jul-2025	28-Jul-2025	28 days	15 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-11-S_2025	E510	13-Jul-2025	28-Jul-2025	28 days	15 days	✔	29-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-12-S_2025	E510	14-Jul-2025	28-Jul-2025	28 days	15 days	✔	29-Jul-2025	28 days	0 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-12-S_2025R	E510	14-Jul-2025	28-Jul-2025	28 days	15 days	✔	29-Jul-2025	28 days	0 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-18-S_2025	E510	14-Jul-2025	29-Jul-2025	28 days	15 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-19-S_2025	E510	14-Jul-2025	29-Jul-2025	28 days	15 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-20-S_2025	E510	14-Jul-2025	29-Jul-2025	28 days	15 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-21-S_2025	E510	14-Jul-2025	29-Jul-2025	28 days	15 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-17-S_2025	E440	16-Jul-2025	28-Jul-2025	180 days	12 days	✔	29-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-17-S_2025R	E440	16-Jul-2025	28-Jul-2025	180 days	12 days	✔	29-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-05-S_2025	E440	16-Jul-2025	28-Jul-2025	180 days	13 days	✔	29-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-01-S_2025	E440	13-Jul-2025	28-Jul-2025	180 days	15 days	✔	29-Jul-2025	180 days	15 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-02-S_2025	E440	13-Jul-2025	28-Jul-2025	180 days	15 days	✔	29-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-11-S_2025	E440	13-Jul-2025	28-Jul-2025	180 days	15 days	✔	29-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-12-S_2025	E440	14-Jul-2025	28-Jul-2025	180 days	15 days	✔	29-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-12-S_2025R	E440	14-Jul-2025	28-Jul-2025	180 days	15 days	✔	29-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-18-S_2025	E440	14-Jul-2025	29-Jul-2025	180 days	15 days	✔	30-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-19-S_2025	E440	14-Jul-2025	29-Jul-2025	180 days	15 days	✔	30-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-20-S_2025	E440	14-Jul-2025	29-Jul-2025	180 days	15 days	✔	30-Jul-2025	180 days	15 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-21-S_2025	E440	14-Jul-2025	29-Jul-2025	180 days	15 days	✔	30-Jul-2025	180 days	15 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-01-S_2025	E185A	13-Jul-2025	----	----	----		30-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-02-S_2025	E185A	13-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-05-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-11-S_2025	E185A	13-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-12-S_2025	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-12-S_2025R	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-17-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-17-S_2025R	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-18-S_2025	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-19-S_2025	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-20-S_2025	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-21-S_2025	E185A	14-Jul-2025	----	----	----		30-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-05-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-17-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-17-S_2025R	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-12-S_2025	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-12-S_2025R	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-18-S_2025	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-19-S_2025	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-20-S_2025	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-21-S_2025	E184	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-01-S_2025	E184	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-02-S_2025	E184	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-11-S_2025	E184	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-05-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-17-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-17-S_2025R	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-12-S_2025	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-12-S_2025R	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-18-S_2025	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-19-S_2025	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-20-S_2025	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-21-S_2025	E182	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-01-S_2025	E182	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-02-S_2025	E182	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-11-S_2025	E182	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-05-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-17-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-17-S_2025R	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-12-S_2025	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-12-S_2025R	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-18-S_2025	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-19-S_2025	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-20-S_2025	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-21-S_2025	E181	14-Jul-2025	28-Jul-2025	365 days	14 days	✔	28-Jul-2025	365 days	14 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-01-S_2025	E181	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-02-S_2025	E181	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-11-S_2025	E181	13-Jul-2025	28-Jul-2025	365 days	15 days	✔	28-Jul-2025	365 days	15 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-01-S_2025	E144	13-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-02-S_2025	E144	13-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-05-S_2025	E144	16-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-11-S_2025	E144	13-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-12-S_2025	E144	14-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-12-S_2025R	E144	14-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-17-S_2025	E144	16-Jul-2025	----	----	----		24-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-17-S_2025R	E144	16-Jul-2025	----	----	----		24-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-18-S_2025	E144	14-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-19-S_2025	E144	14-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-20-S_2025	E144	14-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-21-S_2025	E144	14-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-12-S_2025	E108A	14-Jul-2025	24-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-12-S_2025R	E108A	14-Jul-2025	24-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-01-S_2025	E108A	13-Jul-2025	24-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-02-S_2025	E108A	13-Jul-2025	24-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-11-S_2025	E108A	13-Jul-2025	24-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-18-S_2025	E108A	14-Jul-2025	25-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-19-S_2025	E108A	14-Jul-2025	25-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-20-S_2025	E108A	14-Jul-2025	25-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-21-S_2025	E108A	14-Jul-2025	25-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-05-S_2025	E108A	16-Jul-2025	24-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-17-S_2025	E108A	16-Jul-2025	24-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-17-S_2025R	E108A	16-Jul-2025	24-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126998	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2127000	2	40	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131163	1	20	5.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131162	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	2	40	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	2	40	5.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126998	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2127000	2	40	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2131164	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131163	1	20	5.0	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131162	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	4	40	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	4	40	10.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2127000	2	40	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	2	40	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2123808	2	40	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.

QUALITY CONTROL REPORT

Work Order	: WT2519854	Page	: 1 of 14
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 23-Jul-2025 09:30
PO	: 4500156571	Date Analysis Commenced	: 24-Jul-2025
C-O-C number	: ----	Issue Date	: 30-Jul-2025 18:08
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Waterloo Centralized Prep, Waterloo, Ontario
Colby Bingham	Laboratory Supervisor	Saskatoon Inorganics, Saskatoon, Saskatchewan
Hedy Lai	Team Leader - Inorganics	Saskatoon Sask Soils, Saskatoon, Saskatchewan
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Nik Perkio	Senior Analyst	Waterloo Metals, Waterloo, Ontario
Niral Patel		Waterloo Centralized Prep, Waterloo, Ontario

Page : 2 of 14
Work Order : WT2519854
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2123810)											
WT2519853-002	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.86	5.85	0.171%	5%	----
Physical Tests (QC Lot: 2123811)											
WT2519853-001	Anonymous	Moisture	----	E144	0.25	%	12.8	11.6	9.80%	20%	----
Physical Tests (QC Lot: 2126998)											
WT2519854-009	MS-18-S_2025	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.96	6.24	4.59%	5%	----
Physical Tests (QC Lot: 2127000)											
WT2519854-010	MS-19-S_2025	Moisture	----	E144	0.25	%	19.8	18.5	6.70%	20%	----
Percent Passing (QC Lot: 2131162)											
WT2519854-004	MS-11-S_2025	Passing (0.002mm)	----	E184	1.0	%	3.5	3.5	0.0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	4.8	4.8	0.1	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	5.5	5.4	0.1	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	12.3	12.0	0.2	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	14.4	14.2	1.75%	15%	----
Percent Passing (QC Lot: 2131163)											
WT2519854-004	MS-11-S_2025	Passing (0.05mm)	----	E182	1.0	%	17.9	17.7	1.32%	15%	----
		Passing (0.063mm)	----	E182	1.0	%	19.5	19.3	1.14%	15%	----
		Passing (0.075mm)	----	E182	1.0	%	20.9	20.7	0.998%	15%	----
		Passing (0.125mm)	----	E182	1.0	%	26.8	26.7	0.570%	15%	----
		Passing (0.149mm)	----	E182	1.0	%	30.3	30.1	0.720%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	44.9	44.4	1.10%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	60.4	58.9	2.53%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	67.7	65.7	2.98%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	77.5	75.4	2.71%	15%	----
		Passing (1.0mm)	----	E182	1.0	%	82.1	80.0	2.60%	15%	----
Metals (QC Lot: 2123808)											
WT2519853-001	Anonymous	Mercury	7439-97-6	E510	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
Metals (QC Lot: 2123809)											
WT2519853-001	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	1440	1500	4.46%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.25	0.20	0.05	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2123809) - continued											
WT2519853-001	Anonymous	Barium	7440-39-3	E440	0.50	mg/kg	5.88	6.02	2.29%	40%	---
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	---
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	---
		Calcium	7440-70-2	E440	50	mg/kg	611	710	15.0%	30%	---
		Chromium	7440-47-3	E440	0.50	mg/kg	9.53	7.45	24.4%	30%	---
		Cobalt	7440-48-4	E440	0.10	mg/kg	1.10	1.21	9.70%	30%	---
		Copper	7440-50-8	E440	0.50	mg/kg	2.02	2.20	0.18	Diff <2x LOR	---
		Iron	7439-89-6	E440	50	mg/kg	4320	4970	13.8%	30%	---
		Lead	7439-92-1	E440	0.50	mg/kg	1.21	1.23	0.02	Diff <2x LOR	---
		Lithium	7439-93-2	E440	2.0	mg/kg	2.3	2.6	0.3	Diff <2x LOR	---
		Magnesium	7439-95-4	E440	20	mg/kg	989	1040	4.85%	30%	---
		Manganese	7439-96-5	E440	1.0	mg/kg	27.4	31.7	14.5%	30%	---
		Molybdenum	7439-98-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Nickel	7440-02-0	E440	0.50	mg/kg	3.49	3.49	0.196%	30%	---
		Phosphorus	7723-14-0	E440	50	mg/kg	127	98	29	Diff <2x LOR	---
		Potassium	7440-09-7	E440	100	mg/kg	230	220	5	Diff <2x LOR	---
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	---
		Strontium	7440-24-6	E440	0.50	mg/kg	1.97	2.12	0.15	Diff <2x LOR	---
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	---
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	---
		Titanium	7440-32-6	E440	1.0	mg/kg	91.7	98.6	7.23%	40%	---
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Uranium	7440-61-1	E440	0.050	mg/kg	0.214	0.228	0.014	Diff <2x LOR	---
		Vanadium	7440-62-2	E440	0.20	mg/kg	5.84	6.06	3.60%	30%	---
		Zinc	7440-66-6	E440	2.0	mg/kg	4.2	4.2	0.06	Diff <2x LOR	---
		Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	---
Metals (QC Lot: 2126996)											
WT2519854-009	MS-18-S_2025	Aluminum	7429-90-5	E440	50	mg/kg	1970	2240	12.6%	40%	---
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2126996) - continued											
WT2519854-009	MS-18-S_2025	Arsenic	7440-38-2	E440	0.10	mg/kg	0.35	0.33	0.03	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	9.33	9.84	5.30%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	0.10	0.003	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	0.26	<0.20	0.06	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	1580	1710	7.43%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	11.4	13.6	17.5%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	2.00	2.12	5.73%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	2.99	2.91	0.08	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	6520	6540	0.187%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	2.44	2.45	0.009	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	2.5	3.3	0.7	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	1720	1990	14.1%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	55.6	63.3	13.0%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.23	0.10	0.13	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	8.31	9.54	13.7%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	218	248	31	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	290	350	60	Diff <2x LOR	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	2.57	2.76	7.04%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	220	251	13.2%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.668	0.786	16.2%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	9.93	11.4	13.7%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	6.8	7.8	1.1	Diff <2x LOR	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----
Metals (QC Lot: 2126997)											
WT2519854-009	MS-18-S_2025	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0063	0.0065	0.0002	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2123811)						
Moisture	---	E144	0.25	%	<0.25	---
Physical Tests (QCLot: 2127000)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2123808)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2123809)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2123809) - continued						
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---
Titanium	7440-32-6	E440	1	mg/kg	<1.0	---
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	---
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	---
Zinc	7440-66-6	E440	2	mg/kg	<2.0	---
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	---
Metals (QCLot: 2126996)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2126996) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2126997)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2123810)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2123811)									
Moisture	---	E144	0.25	%	50 %	98.8	90.0	110	---
Physical Tests (QCLot: 2126998)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2127000)									
Moisture	---	E144	0.25	%	50 %	98.7	90.0	110	---
Metals (QCLot: 2123808)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	100	80.0	120	---
Metals (QCLot: 2123809)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	100	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	94.8	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	94.4	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	95.0	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	90.4	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	97.6	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	93.2	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	100	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	98.5	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	98.4	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	97.1	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	96.3	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	91.0	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	101	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	96.5	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	97.4	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	102	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2123809) - continued									
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.6	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	90.7	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.9	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	99.2	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	92.1	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	94.9	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	93.9	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	97.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	98.1	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	100	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	98.3	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	91.3	80.0	120	----
Metals (QCLot: 2126996)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	98.6	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	96.0	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	99.9	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	92.5	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	99.5	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	93.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	92.2	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	94.7	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	97.5	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	95.8	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	95.3	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	97.2	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	102	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	89.8	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	99.9	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	97.9	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.8	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	99.8	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	99.3	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.9	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	90.2	80.0	120	----



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2126996) - continued									
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.9	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	97.4	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	93.6	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	100	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	94.4	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	96.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	99.1	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	99.2	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	95.4	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	93.3	80.0	120	----
Metals (QCLot: 2126997)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	98.5	80.0	120	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131162)									
QC-2131162-001	RM	Passing (0.002mm)	----	E184	22.5 %	106	74.1	126	----
QC-2131162-001	RM	Passing (0.004mm)	----	E184	25.1 %	106	76.8	123	----
QC-2131162-001	RM	Passing (0.005mm)	----	E184	26.5 %	106	77.9	122	----
QC-2131162-001	RM	Passing (0.020mm)	----	E184	41.8 %	102	85.8	114	----
QC-2131162-001	RM	Passing (0.0312mm)	----	E184	45.6 %	103	88.0	112	----
Percent Passing (QCLot: 2131163)									
QC-2131163-001	RM	Passing (0.05mm)	----	E182	54.1 %	102	90.0	110	----
QC-2131163-001	RM	Passing (0.063mm)	----	E182	57.1 %	101	90.8	109	----
QC-2131163-001	RM	Passing (0.075mm)	----	E182	60.2 %	99.2	91.4	109	----
QC-2131163-001	RM	Passing (0.125mm)	----	E182	68.2 %	101	92.7	107	----
QC-2131163-001	RM	Passing (0.149mm)	----	E182	72 %	98.7	93.1	107	----
QC-2131163-001	RM	Passing (0.250mm)	----	E182	82.3 %	99.0	94.1	106	----
QC-2131163-001	RM	Passing (0.420mm)	----	E182	89.9 %	97.5	94.6	105	----
QC-2131163-001	RM	Passing (0.50mm)	----	E182	91.2 %	99.4	94.7	105	----
QC-2131163-001	RM	Passing (0.841mm)	----	E182	95.6 %	98.6	94.9	105	----
QC-2131163-001	RM	Passing (1.0mm)	----	E182	96.3 %	99.7	94.9	105	----
Percent Passing (QCLot: 2131164)									
QC-2131164-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Metals (QCLot: 2123808)									
QC-2123808-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	102	70.0	130	----
Metals (QCLot: 2123809)									
QC-2123809-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	105	70.0	130	----
QC-2123809-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	111	70.0	130	----
QC-2123809-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	99.3	70.0	130	----
QC-2123809-003	RM	Barium	7440-39-3	E440	788 mg/kg	97.9	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2123809) - continued									
QC-2123809-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	118	70.0	130	----
QC-2123809-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	110	70.0	130	----
QC-2123809-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	95.1	70.0	130	----
QC-2123809-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	112	70.0	130	----
QC-2123809-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	100	70.0	130	----
QC-2123809-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	99.2	70.0	130	----
QC-2123809-003	RM	Copper	7440-50-8	E440	969 mg/kg	99.9	70.0	130	----
QC-2123809-003	RM	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Lead	7439-92-1	E440	919 mg/kg	111	70.0	130	----
QC-2123809-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	119	70.0	130	----
QC-2123809-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	103	70.0	130	----
QC-2123809-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	114	70.0	130	----
QC-2123809-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	103	70.0	130	----
QC-2123809-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	100	70.0	130	----
QC-2123809-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	98.7	70.0	130	----
QC-2123809-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	99.3	60.0	140	----
QC-2123809-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	108	70.0	130	----
QC-2123809-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2123809-003	RM	Strontium	7440-24-6	E440	41 mg/kg	113	70.0	130	----
QC-2123809-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	103	50.0	150	----
QC-2123809-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	112	70.0	130	----
QC-2123809-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	100	40.0	160	----
QC-2123809-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	102	70.0	130	----
QC-2123809-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	127	70.0	130	----
QC-2123809-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	110	70.0	130	----
QC-2123809-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	99.5	70.0	130	----
QC-2123809-003	RM	Zinc	7440-66-6	E440	828 mg/kg	98.5	70.0	130	----
QC-2123809-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	128	70.0	130	----
Metals (QCLot: 2126996)									
QC-2126996-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	90.8	70.0	130	----
QC-2126996-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Barium	7440-39-3	E440	788 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	101	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2126996) - continued									
QC-2126996-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	96.2	70.0	130	----
QC-2126996-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	98.3	70.0	130	----
QC-2126996-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	97.1	70.0	130	----
QC-2126996-003	RM	Copper	7440-50-8	E440	969 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Lead	7439-92-1	E440	919 mg/kg	96.0	70.0	130	----
QC-2126996-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	106	70.0	130	----
QC-2126996-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	97.0	70.0	130	----
QC-2126996-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	95.5	70.0	130	----
QC-2126996-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	106	60.0	140	----
QC-2126996-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	95.0	70.0	130	----
QC-2126996-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2126996-003	RM	Strontium	7440-24-6	E440	41 mg/kg	100	70.0	130	----
QC-2126996-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	93.4	50.0	150	----
QC-2126996-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	98.7	70.0	130	----
QC-2126996-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	98.8	40.0	160	----
QC-2126996-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	86.3	70.0	130	----
QC-2126996-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	98.2	70.0	130	----
QC-2126996-003	RM	Zinc	7440-66-6	E440	828 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	101	70.0	130	----
Metals (QCLot: 2126997)									
QC-2126997-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	99.2	70.0	130	----

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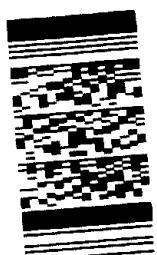
Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 568 9878

COC Number: 20 -

Page: -

Environmental Division
Waterloo
Work Order Reference
WT2519854



519 886 6917

Report To EDI - Environmental Dynamics Inc c/o Barrfield Iron Mine Contact: Daniel Hall 403-473-1040 Company address below will appear on the final report 400-422 5 Avenue SW Calgary, AB Postal Code: T2P 0M8		Reports / Receipts <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EOD (ORIGINAL) <input type="checkbox"/> Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: dhall@edynamics.com Email 2: labinfo@edynamics.com Email 3:	
Company: Barrfield Iron Mine Corporation Contact: Accounts Payable		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: ap@barrfield.com Email 2: environmental.support@barrfield.com Oil and Gas Required Fields (Client use):	
ALS Account # / Quote #: Job #: 23C017 2025 Metals Sampling PO / A/E: 4500186971		ALS Lab Work Order # (lab use only): 1278519854	
Project Information Location:		ALS Contact: Rick Hawthorne Sampler: Bailey Durant, Andrew Lal	
ALS Sample # (lab use only) Sample Identification (fills automatically) (SYS_SAMPLE CODE)		Sample Location (SYS_LOC CODE) Sampling Date (dd-mm-yy) Time (hh:mm) Field Matrix	
MS-01-S_2025		13-Jul-25 14:00 SO	
MS-02-S_2025		13-Jul-25 14:45 SO	
MS-05-S_2025		15-Jul-25 10:10 SO	
MS-11-S_2025		13-Jul-25 15:30 SO	
MS-12-S_2025		14-Jul-25 8:00 SO	
MS-12-S_2025R		14-Jul-25 8:00 SO	
MS-17-S_2025		16-Jul-25 14:00 SO	
MS-17-S_2025R		16-Jul-25 14:00 SO	
MS-18-S_2025		14-Jul-25 15:20 SO	
MS-19-S_2025		14-Jul-25 16:05 SO	
MS-20-S_2025		14-Jul-25 8:45 SO	
MS-21-S_2025		14-Jul-25 9:25 SO	
Notes / Specify Limit for result evaluation by selecting from drop-down below (Excel COC only)			
Drinking Water (DW) Samples (client use) <input type="checkbox"/> Are samples taken from a Regulated DW System? <input type="checkbox"/> Are samples for human consumption use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
SHIPMENT RELEASE (client use) Released by: Bailey Durant Date: 22-Jul-2025 Time: 08:00		INITIAL SHIPMENT RECEPTION (lab use only) Received by: Date:	
NUMBER OF CONTAINERS HG-200.2-CVAA-WT (Metals in Soil) MET-200.2-CCMS-WT (Metals in Soil) MOISTURE-WT (Physical Test) PARTICLE SIZE/TEXTURE (Physical Test) PH-WT (Physical Test)			
Turnaround Time (TAT) Requested <input checked="" type="checkbox"/> Routine (R) if received by 3pm M-F - no surcharge apply <input type="checkbox"/> 1 day (P1) if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 2 day (P2) if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 3 day (P3) if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day (E) if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> Same day (E2) if received by 7am M-F - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests.			
Date and Time Required for all EAP TATS:			
Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below			
SAMPLES ON HOLD <input type="checkbox"/> EXTENDED STORAGE REQUIRED <input type="checkbox"/> SUSPECTED HAZARD (see notes)			
Cooling Method <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: YES <input type="checkbox"/> NO <input type="checkbox"/> Cooler Custody Seals Intact: YES <input type="checkbox"/> N/A <input type="checkbox"/> Sample Custody Seals Intact: YES <input type="checkbox"/> N/A <input type="checkbox"/> INITIAL COOLER TEMPERATURE: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> FINAL COOLER TEMPERATURE: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>			
WHITE - LABORATORY COPY Released by: Bailey Durant Date: 22-Jul-2025 Time: 08:00		YELLOW - CLIENT COPY Received by: Date:	

REFER TO BACK PAGE FOR ALS COA TIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in this form (LS-001) by the use of this form, the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS 2023 FORM



CERTIFICATE OF ANALYSIS

Work Order	: WT2519858		
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 26-Jul-2025
Sampler	: BD/AL	Issue Date	: 30-Jul-2025 18:10
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan
Nik Perkio		Inorganics, Waterloo, Ontario
Nik Perkio		Metals, Waterloo, Ontario
Niral Patel		Centralized Prep, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

PSAL: Sample 001, 003,005,008: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-07-S_2025 ----	MS-08-S_2025 ----	MS-10-S_2025 ----	MS-16-S_2025 ----	MS-03-S_2025 ----
					Client sampling date / time	15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519858-001	WT2519858-002	WT2519858-003	WT2519858-004	WT2519858-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	18.0	10.2	19.2	17.1	36.9	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	5.89	5.81	5.85	5.80	6.01	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	1.8	<1.0	<1.0	<1.0	<1.0	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	1.8	3.5	1.4	1.6	1.7	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	8.0	10.8	9.0	7.3	5.3	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	39.6	40.8	42.9	31.9	12.6	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	32.7	29.4	27.8	42.8	15.1	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	5.6	6.4	6.0	7.9	5.5	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	4.6	3.3	5.5	3.0	30.0	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	4.7	3.9	5.7	4.0	26.4	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	1.2	1.2	1.7	1.1	3.4	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	1.0	1.5	<1.0	2.1	
Passing (0.004mm)	----	E184/SK	1.0	%	1.2	1.2	1.7	1.1	3.4	
Passing (0.005mm)	----	E184/SK	1.0	%	1.3	1.3	1.9	1.2	4.0	
Passing (0.020mm)	----	E184/SK	1.0	%	3.6	3.0	4.5	2.8	18.5	
Passing (0.0312mm)	----	E184/SK	1.0	%	5.8	4.5	7.2	4.1	33.4	
Passing (0.05mm)	----	E182/SK	1.0	%	9.3	7.1	11.7	6.4	58.6	
Passing (0.063mm)	----	E182/SK	1.0	%	10.5	8.4	12.9	8.1	59.8	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-07-S_2025	MS-08-S_2025	MS-10-S_2025	MS-16-S_2025	MS-03-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05	
					WT2519858-001	WT2519858-002	WT2519858-003	WT2519858-004	WT2519858-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%	11.6	9.6	14.1	9.6	60.8	
Passing (0.125mm)	----	E182/SK	1.0	%	16.1	14.8	18.9	16.0	65.3	
Passing (0.149mm)	----	E182/SK	1.0	%	22.3	20.4	24.2	24.2	68.2	
Passing (0.250mm)	----	E182/SK	1.0	%	48.8	44.2	46.7	58.8	80.4	
Passing (0.420mm)	----	E182/SK	1.0	%	75.7	71.9	75.9	80.5	89.0	
Passing (0.50mm)	----	E182/SK	1.0	%	88.4	85.0	89.6	90.7	93.0	
Passing (0.841mm)	----	E182/SK	1.0	%	93.9	92.4	95.8	95.7	96.6	
Passing (1.0mm)	----	E182/SK	1.0	%	96.4	95.8	98.6	98.0	98.3	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	98.2	99.3	100.0	99.6	100.0	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	99.4	100.0	100.0	100.0	100.0	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2460	2230	2040	1790	10000	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.32	0.29	0.29	0.28	1.72	
Barium	7440-39-3	E440/WT	0.50	mg/kg	14.7	9.59	9.94	9.83	37.2	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-07-S_2025	MS-08-S_2025	MS-10-S_2025	MS-16-S_2025	MS-03-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05	
					WT2519858-001	WT2519858-002	WT2519858-003	WT2519858-004	WT2519858-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.10	<0.10	0.10	<0.10	0.40	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	16.8	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	0.021	<0.020	0.038	
Calcium	7440-70-2	E440/WT	50	mg/kg	2040	883	2840	1490	4170	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	12.9	15.6	11.3	11.8	40.5	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	2.04	2.30	1.74	1.60	7.66	
Copper	7440-50-8	E440/WT	0.50	mg/kg	3.10	2.15	2.26	1.91	21.8	
Iron	7439-89-6	E440/WT	50	mg/kg	6080	7120	5460	6560	15300	
Lead	7439-92-1	E440/WT	0.50	mg/kg	2.63	2.90	2.39	2.20	10.8	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	3.6	3.5	2.2	2.7	14.9	
Magnesium	7439-95-4	E440/WT	20	mg/kg	2410	1520	1450	1360	7000	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	57.2	79.6	57.4	44.1	219	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	<0.0050	0.0130	<0.0050	0.0163	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	0.17	<0.10	0.22	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	12.7	8.36	5.92	6.40	49.3	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	250	249	320	230	429	
Potassium	7440-09-7	E440/WT	100	mg/kg	300	360	290	310	1790	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	<50	<50	80	



Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-07-S_2025 ----	MS-08-S_2025 ----	MS-10-S_2025 ----	MS-16-S_2025 ----	MS-03-S_2025 ----
Client sampling date / time					15-Jul-2025 11:45	15-Jul-2025 09:40	15-Jul-2025 11:00	15-Jul-2025 09:00	16-Jul-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519858-001	WT2519858-002	WT2519858-003	WT2519858-004	WT2519858-005
					Result	Result	Result	Result	Result
Metals									
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.91	2.68	3.61	2.53	6.45
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	0.219
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg	248	230	180	205	548
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.649	0.466	0.392	0.415	2.53
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	9.22	12.1	8.92	9.96	27.8
Zinc	7440-66-6	E440/WT	2.0	mg/kg	8.8	7.2	6.1	6.7	26.3
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	3.4

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-04-S_2025 ----	MS-06-S_2025 ----	MS-09-S_2025 ----	MS-15-S_2025 ----	MS-15-S_2025R ----
Client sampling date / time					16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519858-006	WT2519858-007	WT2519858-008	WT2519858-009	WT2519858-010
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/WT	0.25	%	9.15	22.4	36.6	16.8	17.7
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	6.09	5.27	6.01	6.06	6.18
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	2.2	1.4	<1.0	3.8	2.6



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-04-S_2025	MS-06-S_2025	MS-09-S_2025	MS-15-S_2025	MS-15-S_2025R
					Client sampling date / time	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519858-006	WT2519858-007	WT2519858-008	WT2519858-009	WT2519858-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	4.8	3.1	1.2	6.8	5.8	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	15.2	9.0	9.5	11.7	12.1	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	31.7	24.3	37.8	26.1	28.2	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	30.3	26.9	33.0	29.9	28.6	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	5.6	8.8	5.4	6.9	6.6	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	4.5	13.0	7.0	6.9	7.7	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	3.5	10.1	6.1	6.0	7.0	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	2.2	3.4	<1.0	1.9	1.4	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	1.6	2.2	<1.0	1.3	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	2.2	3.4	<1.0	1.9	1.4	
Passing (0.005mm)	----	E184/SK	1.0	%	2.4	3.9	<1.0	2.2	1.7	
Passing (0.020mm)	----	E184/SK	1.0	%	5.4	11.5	4.0	6.2	5.8	
Passing (0.0312mm)	----	E184/SK	1.0	%	6.7	16.4	7.0	8.8	9.1	
Passing (0.05mm)	----	E182/SK	1.0	%	9.0	24.6	11.9	13.3	14.7	
Passing (0.063mm)	----	E182/SK	1.0	%	10.2	26.5	13.1	14.8	16.1	
Passing (0.075mm)	----	E182/SK	1.0	%	11.3	28.2	14.1	16.1	17.3	
Passing (0.125mm)	----	E182/SK	1.0	%	15.8	35.3	18.5	21.7	22.7	
Passing (0.149mm)	----	E182/SK	1.0	%	21.6	40.5	24.8	27.5	28.2	
Passing (0.250mm)	----	E182/SK	1.0	%	46.1	62.2	51.5	51.6	51.3	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-04-S_2025	MS-06-S_2025	MS-09-S_2025	MS-15-S_2025	MS-15-S_2025R
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40	
					WT2519858-006	WT2519858-007	WT2519858-008	WT2519858-009	WT2519858-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	----	E182/SK	1.0	%	67.7	78.8	77.2	69.3	70.5	
Passing (0.50mm)	----	E182/SK	1.0	%	77.8	86.5	89.3	77.7	79.5	
Passing (0.841mm)	----	E182/SK	1.0	%	88.2	92.6	95.8	85.7	87.7	
Passing (1.0mm)	----	E182/SK	1.0	%	93.0	95.5	98.8	89.4	91.6	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	97.8	98.6	100.0	96.2	97.4	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	98.9	99.5	100.0	99.6	99.8	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2150	10200	1830	3160	2830	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.43	1.41	0.27	0.64	0.62	
Barium	7440-39-3	E440/WT	0.50	mg/kg	6.14	25.4	8.27	11.3	10.1	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.12	0.39	<0.10	0.15	0.15	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	0.64	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	8.0	<5.0	6.0	6.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	0.127	<0.020	<0.020	<0.020	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-04-S_2025	MS-06-S_2025	MS-09-S_2025	MS-15-S_2025	MS-15-S_2025R
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40	
					WT2519858-006	WT2519858-007	WT2519858-008	WT2519858-009	WT2519858-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	900	1830	3180	1960	1970	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	7.46	28.8	10.2	13.5	11.8	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.74	6.35	1.57	2.58	2.26	
Copper	7440-50-8	E440/WT	0.50	mg/kg	2.81	21.9	2.53	3.54	3.31	
Iron	7439-89-6	E440/WT	50	mg/kg	3560	17700	5730	6790	6020	
Lead	7439-92-1	E440/WT	0.50	mg/kg	2.78	32.9	2.07	3.83	3.51	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	3.6	11.1	3.2	5.5	5.1	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1860	7690	1920	2510	2270	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	65.3	288	49.6	97.7	92.5	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0068	0.0114	<0.0050	<0.0050	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	1.09	0.12	0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	9.40	22.9	6.52	8.69	7.44	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	114	366	266	225	243	
Potassium	7440-09-7	E440/WT	100	mg/kg	430	880	270	580	530	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	61	<50	<50	<50	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.00	3.66	3.28	2.93	2.69	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	0.130	<0.050	0.052	<0.050	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-04-S_2025 ----	MS-06-S_2025 ----	MS-09-S_2025 ----	MS-15-S_2025 ----	MS-15-S_2025R ----
					Client sampling date / time	16-Jul-2025 11:00	16-Jul-2025 09:00	15-Jul-2025 10:20	16-Jul-2025 09:40	16-Jul-2025 09:40
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519858-006	WT2519858-007	WT2519858-008	WT2519858-009	WT2519858-010	
					Result	Result	Result	Result	Result	
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg	136	504	203	251	227	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.217	1.72	0.437	0.765	0.611	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	6.29	21.9	8.89	11.8	10.2	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	7.0	46.3	7.5	10.5	9.3	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	1.4	<1.0	<1.0	

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519858</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 10</p> <p>No. of samples analysed : 10</p>	<p>Page : 1 of 15</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 30-Jul-2025 18:10</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-03-S_2025	E510	16-Jul-2025	29-Jul-2025	28 days	13 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-04-S_2025	E510	16-Jul-2025	29-Jul-2025	28 days	13 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-06-S_2025	E510	16-Jul-2025	29-Jul-2025	28 days	13 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-15-S_2025	E510	16-Jul-2025	29-Jul-2025	28 days	13 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-15-S_2025R	E510	16-Jul-2025	29-Jul-2025	28 days	13 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-07-S_2025	E510	15-Jul-2025	29-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-08-S_2025	E510	15-Jul-2025	29-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	1 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-09-S_2025	E510	15-Jul-2025	29-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-10-S_2025	E510	15-Jul-2025	29-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Mercury in Soil/Solid by CVAAS											
LDPE bag MS-16-S_2025	E510	15-Jul-2025	29-Jul-2025	28 days	14 days	✔	30-Jul-2025	28 days	1 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-03-S_2025	E440	16-Jul-2025	29-Jul-2025	180 days	13 days	✔	30-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-04-S_2025	E440	16-Jul-2025	29-Jul-2025	180 days	13 days	✔	30-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-06-S_2025	E440	16-Jul-2025	29-Jul-2025	180 days	13 days	✔	30-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-15-S_2025	E440	16-Jul-2025	29-Jul-2025	180 days	13 days	✔	30-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-15-S_2025R	E440	16-Jul-2025	29-Jul-2025	180 days	13 days	✔	30-Jul-2025	180 days	13 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-07-S_2025	E440	15-Jul-2025	29-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-08-S_2025	E440	15-Jul-2025	29-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-09-S_2025	E440	15-Jul-2025	29-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-10-S_2025	E440	15-Jul-2025	29-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-16-S_2025	E440	15-Jul-2025	29-Jul-2025	180 days	14 days	✔	30-Jul-2025	180 days	14 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-03-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-04-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-06-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-07-S_2025	E185A	15-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-08-S_2025	E185A	15-Jul-2025	----	----	----		30-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-09-S_2025	E185A	15-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-10-S_2025	E185A	15-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-15-S_2025	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-15-S_2025R	E185A	16-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-16-S_2025	E185A	15-Jul-2025	----	----	----		30-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-03-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-04-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-06-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-15-S_2025	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-15-S_2025R	E184	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-07-S_2025	E184	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-08-S_2025	E184	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-09-S_2025	E184	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-10-S_2025	E184	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-16-S_2025	E184	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-03-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-04-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-06-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-15-S_2025	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-15-S_2025R	E182	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-07-S_2025	E182	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-08-S_2025	E182	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-09-S_2025	E182	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-10-S_2025	E182	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-16-S_2025	E182	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-03-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-04-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-06-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-15-S_2025	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-15-S_2025R	E181	16-Jul-2025	28-Jul-2025	365 days	12 days	✔	28-Jul-2025	365 days	12 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-07-S_2025	E181	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-08-S_2025	E181	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-09-S_2025	E181	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-10-S_2025	E181	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-16-S_2025	E181	15-Jul-2025	28-Jul-2025	365 days	13 days	✔	28-Jul-2025	365 days	13 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-03-S_2025	E144	16-Jul-2025	----	----	----		25-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-04-S_2025	E144	16-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-06-S_2025	E144	16-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-07-S_2025	E144	15-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-08-S_2025	E144	15-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-09-S_2025	E144	15-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-10-S_2025	E144	15-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-15-S_2025	E144	16-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-15-S_2025R	E144	16-Jul-2025	----	----	----		25-Jul-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag MS-16-S_2025	E144	15-Jul-2025	----	----	----		25-Jul-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-07-S_2025	E108A	15-Jul-2025	25-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-08-S_2025	E108A	15-Jul-2025	25-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-09-S_2025	E108A	15-Jul-2025	25-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-10-S_2025	E108A	15-Jul-2025	25-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-16-S_2025	E108A	15-Jul-2025	25-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-03-S_2025	E108A	16-Jul-2025	25-Jul-2025	30 days	9 days	✔	30-Jul-2025	30 days	9 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-04-S_2025	E108A	16-Jul-2025	25-Jul-2025	30 days	9 days	✔	30-Jul-2025	30 days	9 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-06-S_2025	E108A	16-Jul-2025	25-Jul-2025	30 days	9 days	✔	30-Jul-2025	30 days	9 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MS-15-S_2025	E108A	16-Jul-2025	25-Jul-2025	30 days	9 days	✔	30-Jul-2025	30 days	9 days	✔	



Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-15-S_2025R	E108A	16-Jul-2025	25-Jul-2025	30 days	9 days	✔	30-Jul-2025	30 days	9 days	✔

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126998	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2127000	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131166	2	37	5.4	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131165	2	37	5.4	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2126997	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2126998	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2127000	1	20	5.0	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2131167	2	37	5.4	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131166	2	37	5.4	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131165	2	37	5.4	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	2	20	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2126997	2	20	10.0	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2127000	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2126997	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.



QUALITY CONTROL REPORT

<p>Work Order : WT2519858</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 10</p> <p>No. of samples analysed : 10</p>	<p>Page : 1 of 12</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Date Analysis Commenced : 25-Jul-2025</p> <p>Issue Date : 30-Jul-2025 18:10</p>
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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham	Laboratory Supervisor	Saskatoon Inorganics, Saskatoon, Saskatchewan
Hedy Lai	Team Leader - Inorganics	Saskatoon Sask Soils, Saskatoon, Saskatchewan
Nik Perkio	Senior Analyst	Waterloo Inorganics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Waterloo Metals, Waterloo, Ontario
Niral Patel		Waterloo Centralized Prep, Waterloo, Ontario



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

- Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO = Data Quality Objective.
- LOR = Limit of Reporting (detection limit).
- RPD = Relative Percent Difference
- # = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2126998)											
WT2519854-009	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.96	6.24	4.59%	5%	----
Physical Tests (QC Lot: 2127000)											
WT2519854-010	Anonymous	Moisture	----	E144	0.25	%	19.8	18.5	6.70%	20%	----
Percent Passing (QC Lot: 2131162)											
WT2519854-004	Anonymous	Passing (0.002mm)	----	E184	1.0	%	3.5	3.5	0.0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	4.8	4.8	0.1	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	5.5	5.4	0.1	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	12.3	12.0	0.2	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	14.4	14.2	1.75%	15%	----
Percent Passing (QC Lot: 2131163)											
WT2519854-004	Anonymous	Passing (0.05mm)	----	E182	1.0	%	17.9	17.7	1.32%	15%	----
		Passing (0.063mm)	----	E182	1.0	%	19.5	19.3	1.14%	15%	----
		Passing (0.075mm)	----	E182	1.0	%	20.9	20.7	0.998%	15%	----
		Passing (0.125mm)	----	E182	1.0	%	26.8	26.7	0.570%	15%	----
		Passing (0.149mm)	----	E182	1.0	%	30.3	30.1	0.720%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	44.9	44.4	1.10%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	60.4	58.9	2.53%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	67.7	65.7	2.98%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	77.5	75.4	2.71%	15%	----
Passing (1.0mm)	----	E182	1.0	%	82.1	80.0	2.60%	15%	----		
Percent Passing (QC Lot: 2131165)											
VA25B8198-003	Anonymous	Passing (0.002mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	1.2	1.2	0.0	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	1.4	1.4	0.0	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	3.2	3.5	0.2	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	4.4	4.6	0.2	Diff <2x LOR	----
Percent Passing (QC Lot: 2131166)											
VA25B8198-003	Anonymous	Passing (0.05mm)	----	E182	1.0	%	6.5	6.6	0.1	Diff <2x LOR	----
		Passing (0.063mm)	----	E182	1.0	%	7.5	7.6	0.1	Diff <2x LOR	----
		Passing (0.075mm)	----	E182	1.0	%	8.4	8.4	0.0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Percent Passing (QC Lot: 2131166) - continued											
VA25B8198-003	Anonymous	Passing (0.125mm)	----	E182	1.0	%	12.4	12.1	0.3	Diff <2x LOR	----
		Passing (0.149mm)	----	E182	1.0	%	16.0	15.6	2.88%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	31.3	30.1	3.71%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	48.2	47.4	1.70%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	56.2	55.5	1.18%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	63.0	62.7	0.468%	15%	----
		Passing (1.0mm)	----	E182	1.0	%	66.1	66.0	0.187%	15%	----
Metals (QC Lot: 2126996)											
WT2519854-009	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	1970	2240	12.6%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.35	0.33	0.03	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	9.33	9.84	5.30%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	0.10	0.003	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	0.26	<0.20	0.06	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	1580	1710	7.43%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	11.4	13.6	17.5%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	2.00	2.12	5.73%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	2.99	2.91	0.08	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	6520	6540	0.187%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	2.44	2.45	0.009	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	2.5	3.3	0.7	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	1720	1990	14.1%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	55.6	63.3	13.0%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.23	0.10	0.13	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	8.31	9.54	13.7%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	218	248	31	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	290	350	60	Diff <2x LOR	----
Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----		
Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----		
Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----		
Strontium	7440-24-6	E440	0.50	mg/kg	2.57	2.76	7.04%	40%	----		
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----		



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2126996) - continued											
WT2519854-009	Anonymous	Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	220	251	13.2%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.668	0.786	16.2%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	9.93	11.4	13.7%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	6.8	7.8	1.1	Diff <2x LOR	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----
Metals (QC Lot: 2126997)											
WT2519854-009	Anonymous	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0063	0.0065	0.0002	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2127000)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2126996)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---
Titanium	7440-32-6	E440	1	mg/kg	<1.0	---
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	---

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Work Order : WT2519858
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2126996) - continued						
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2126997)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2126998)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2127000)									
Moisture	---	E144	0.25	%	50 %	98.7	90.0	110	---
Metals (QCLot: 2126996)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	98.6	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	96.0	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	99.9	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	92.5	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	99.5	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	93.0	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	92.2	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	94.7	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	97.5	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	95.8	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	95.3	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	97.2	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	102	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	89.8	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	99.9	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	97.9	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.8	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	99.8	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	99.3	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.9	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	90.2	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.9	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	97.4	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	93.6	80.0	120	---
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	100	80.0	120	---
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	94.4	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2126996) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	96.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	99.1	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	99.2	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	95.4	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	93.3	80.0	120	----
Metals (QCLot: 2126997)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	98.5	80.0	120	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131162)									
QC-2131162-001	RM	Passing (0.002mm)	----	E184	22.5 %	106	74.1	126	----
QC-2131162-001	RM	Passing (0.004mm)	----	E184	25.1 %	106	76.8	123	----
QC-2131162-001	RM	Passing (0.005mm)	----	E184	26.5 %	106	77.9	122	----
QC-2131162-001	RM	Passing (0.020mm)	----	E184	41.8 %	102	85.8	114	----
QC-2131162-001	RM	Passing (0.0312mm)	----	E184	45.6 %	103	88.0	112	----
Percent Passing (QCLot: 2131163)									
QC-2131163-001	RM	Passing (0.05mm)	----	E182	54.1 %	102	90.0	110	----
QC-2131163-001	RM	Passing (0.063mm)	----	E182	57.1 %	101	90.8	109	----
QC-2131163-001	RM	Passing (0.075mm)	----	E182	60.2 %	99.2	91.4	109	----
QC-2131163-001	RM	Passing (0.125mm)	----	E182	68.2 %	101	92.7	107	----
QC-2131163-001	RM	Passing (0.149mm)	----	E182	72 %	98.7	93.1	107	----
QC-2131163-001	RM	Passing (0.250mm)	----	E182	82.3 %	99.0	94.1	106	----
QC-2131163-001	RM	Passing (0.420mm)	----	E182	89.9 %	97.5	94.6	105	----
QC-2131163-001	RM	Passing (0.50mm)	----	E182	91.2 %	99.4	94.7	105	----
QC-2131163-001	RM	Passing (0.841mm)	----	E182	95.6 %	98.6	94.9	105	----
QC-2131163-001	RM	Passing (1.0mm)	----	E182	96.3 %	99.7	94.9	105	----
Percent Passing (QCLot: 2131164)									
QC-2131164-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131164-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Percent Passing (QCLot: 2131165)									
QC-2131165-001	RM	Passing (0.002mm)	----	E184	22.5 %	101	74.1	126	----
QC-2131165-001	RM	Passing (0.004mm)	----	E184	25.1 %	102	76.8	123	----
QC-2131165-001	RM	Passing (0.005mm)	----	E184	26.5 %	102	77.9	122	----
QC-2131165-001	RM	Passing (0.020mm)	----	E184	41.8 %	99.2	85.8	114	----
QC-2131165-001	RM	Passing (0.0312mm)	----	E184	45.6 %	102	88.0	112	----
Percent Passing (QCLot: 2131166)									



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131166) - continued									
QC-2131166-001	RM	Passing (0.05mm)	----	E182	54.1 %	103	90.0	110	----
QC-2131166-001	RM	Passing (0.063mm)	----	E182	57.1 %	101	90.8	109	----
QC-2131166-001	RM	Passing (0.075mm)	----	E182	60.2 %	100	91.4	109	----
QC-2131166-001	RM	Passing (0.125mm)	----	E182	68.2 %	102	92.7	107	----
QC-2131166-001	RM	Passing (0.149mm)	----	E182	72 %	99.9	93.1	107	----
QC-2131166-001	RM	Passing (0.250mm)	----	E182	82.3 %	100	94.1	106	----
QC-2131166-001	RM	Passing (0.420mm)	----	E182	89.9 %	98.6	94.6	105	----
QC-2131166-001	RM	Passing (0.50mm)	----	E182	91.2 %	100	94.7	105	----
QC-2131166-001	RM	Passing (0.841mm)	----	E182	95.6 %	99.2	94.9	105	----
QC-2131166-001	RM	Passing (1.0mm)	----	E182	96.3 %	100	94.9	105	----
Percent Passing (QCLot: 2131167)									
QC-2131167-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Metals (QCLot: 2126996)									
QC-2126996-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	90.8	70.0	130	----
QC-2126996-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Barium	7440-39-3	E440	788 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	96.2	70.0	130	----
QC-2126996-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	98.3	70.0	130	----
QC-2126996-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	97.1	70.0	130	----
QC-2126996-003	RM	Copper	7440-50-8	E440	969 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Lead	7439-92-1	E440	919 mg/kg	96.0	70.0	130	----
QC-2126996-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	106	70.0	130	----
QC-2126996-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	97.0	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2126996) - continued									
QC-2126996-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	95.5	70.0	130	----
QC-2126996-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	106	60.0	140	----
QC-2126996-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	95.0	70.0	130	----
QC-2126996-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2126996-003	RM	Strontium	7440-24-6	E440	41 mg/kg	100	70.0	130	----
QC-2126996-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	93.4	50.0	150	----
QC-2126996-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	98.7	70.0	130	----
QC-2126996-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	98.8	40.0	160	----
QC-2126996-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	86.3	70.0	130	----
QC-2126996-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	98.2	70.0	130	----
QC-2126996-003	RM	Zinc	7440-66-6	E440	828 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	101	70.0	130	----
Metals (QCLot: 2126997)									
QC-2126997-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	99.2	70.0	130	----

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 888 9878

COC Number:

Environmental Division
Waterloo
Work Order Reference
WT2519858

Report To: ED - Environmental Dynamics Inc c/o Baffinland Iron Mine
 Contact: Daniel Hall
 Phone: 403-479-1040
 Street: 400-822 5 Avenue SW
 City/Province: Calgary, AB
 Postal Code: T2P 0M6
 Invoice To: Same as Report To
 Copy of Invoice with Report: YES NO
 Company: Baffinland Iron Mine Corporation
 Contact: Accounts Payable
 Project Information: APEOC Center, Malignin Cade, Requisitioner, Location:
 ALS Account # / Quote #: 2500127 2025 Metals Sampling
 Job #: 4800196971
 ALS Lab Work Order # (lab use only): **WT2519858**
 Sample Identification (fills automatically) (SYS_SAMPLE_CODE)
 Sample Location (SYS_LOC_CODE)
 Rick Hawthorne
 Sampling Date (dd-mm-yy)
 Time (hh:mm)
 Field Matrix

ALS Sample # (lab use only)	Sample Identification (fills automatically) (SYS_SAMPLE_CODE)	Sample Location (SYS_LOC_CODE)	Sampling Date (dd-mm-yy)	Time (hh:mm)	Field Matrix
	MS-07-S_2025		15-Jul-25	11:45	SO
	MS-08-S_2025		15-Jul-25	9:40	SO
	MS-10-S_2025		15-Jul-25	11:00	SO
	MS-16-S_2025		15-Jul-25	9:00	SO
	MS-03-S_2025		16-Jul-25	12:05	SO
	MS-04-S_2025		16-Jul-25	11:00	SO
	MS-06-S_2025		16-Jul-25	9:00	SO
	MS-09-S_2025		15-Jul-25	10:20	SO
	MS-15-S_2025		16-Jul-25	9:40	SO
	MS-15-S_2025R		16-Jul-25	9:40	SO

Reports / Recipients: Select Report Format: PDF EXCEL EOD (Digital)
 Merge QC/QC/ Reports with COA YES N/A
 Complete Results to Clients on Report - provide details below if box checked
 Selected Distribution: EMAIL MAIL FAX
 Email 1 or Fax: dshall@edynamics.com
 Email 2: pward@edynamics.com
 Email 3:
 Invoice Recipients: EMAIL MAIL FAX
 Selected Invoice Distribution: EMAIL MAIL FAX
 Email 1 or Fax: and@baffinland.com
 Email 2: andy@baffinland.com
 Email 3: andy@baffinland.com
 Oil and Gas Required Fields (Client use): APEOC Center, Malignin Cade, Requisitioner, Location:
 ALS Contact: Rick Hawthorne
 Sampler: Bailey Durant, Andrew Lai

NUMBER OF CONTAINERS	Indicate Filled (F), Preserved (P) or Filled and Preserved (FP) below
HG-200.2-CVAA-WT (Metals in Soil)	
MET-200.2-CCMS-WT (Metals in Soil)	
MOISTURE-WT (Physical Test)	
PARTICLE SIZE/TEXTURE (Physical Test)	
PH-WT (Physical Test)	

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
 Drinking Water (DW) Samples (client use)
 Are samples taken from a Regulated DW System? YES NO
 Are samples for human consumption use? YES NO
 Released by: Bailey Durant Date: 22-Jul-2025 Time: 08:00
 Received by: INITIAL SHIPMENT RECEPTION (lab use only) Date: Time:
 SHIPMENT RELEASE (client use)
 Released by: Date: 22-Jul-2025 Time: 08:00
 Received by: INITIAL SHIPMENT RECEPTION (lab use only) Date: Time:
 SHIPMENT RECEIPT DETAILS (lab use only)
 Cooling Method: NONE ICE ICE PACKS FROZEN COOLING INITIATED
 Submission Comments Identified on Sample Receipt Notification: YES NO
 Cooler Custody Seals Intact: YES N/A Sample Custody Seals Intact: YES N/A
 INITIAL COOLER TEMPERATURES: °C FINAL COOLER TEMPERATURES: °C
 INITIAL SHIPMENT RECEPTION (lab use only) Date: 22-Jul-25 Time: 15:55
 Received by: FINAL SHIPMENT RECEPTION (lab use only) Date: 22-Jul-25 Time: 15:55

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 Failure to complete all portions of this form may delay analysis. Please fill in this form (ESG/ILV). By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
 1.1 any water samples are taken from a Regulated Drinking Water (DW) system, please submit using an Authorized DW COC form.



1 519 886 8916



CERTIFICATE OF ANALYSIS

Work Order	: WT2519862	Laboratory	: ALS Environmental - Waterloo
Client	: Baffinland Iron Mines Corporation	Account Manager	: Rick Hawthorne
Contact	: Environmental Lab Results	Address	: 60 Northland Road, Unit 1
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8		: Waterloo ON Canada N2V 2B8
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: 25C0127_2025_METALS_SAMPLING	Telephone	: +1 519 886 6910
PO	: 4500156571	Date Samples Received	: 23-Jul-2025 09:30
C-O-C number	: ----	Date Analysis Commenced	: 26-Jul-2025
Sampler	: BD/AL	Issue Date	: 30-Jul-2025 18:10
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham		Inorganics, Saskatoon, Saskatchewan
Hedy Lai		Sask Soils, Saskatoon, Saskatchewan
Josphin Masihi		Centralized Prep, Waterloo, Ontario
Nik Perkio		Inorganics, Waterloo, Ontario
Nik Perkio		Metals, Waterloo, Ontario
Niral Patel		Centralized Prep, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affect by this issue

PSAL: Sample 007-010: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-13-S_2025 ----	MS-14-S_2025 ----	MS-22-S_2025 ----	MS-23-S_2025 ----	MS-24-S_2025 ----
					Client sampling date / time	17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-001	WT2519862-002	WT2519862-003	WT2519862-004	WT2519862-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/WT	0.25	%	12.2	18.0	13.8	5.96	4.54	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	5.44	5.83	4.92	4.81	4.33	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	1.6	<1.0	20.7	4.9	18.7	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	3.6	<1.0	5.1	6.5	10.8	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	7.9	2.9	10.7	11.1	16.6	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	24.0	11.5	25.9	25.9	29.3	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	38.5	27.1	21.7	35.9	17.4	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	14.2	24.1	7.1	7.4	4.0	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	4.6	14.1	3.8	3.0	1.6	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	5.6	17.3	3.7	3.2	1.6	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	2.0	1.3	2.1	<1.0	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	1.4	<1.0	1.8	<1.0	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	2.0	1.3	2.1	<1.0	
Passing (0.005mm)	----	E184/SK	1.0	%	1.1	2.2	1.5	2.2	<1.0	
Passing (0.020mm)	----	E184/SK	1.0	%	3.1	8.9	3.8	4.1	1.1	
Passing (0.0312mm)	----	E184/SK	1.0	%	4.6	16.1	5.1	5.1	1.6	
Passing (0.05mm)	----	E182/SK	1.0	%	7.3	28.3	7.3	6.8	2.4	
Passing (0.063mm)	----	E182/SK	1.0	%	10.2	33.4	8.8	8.3	3.2	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-13-S_2025	MS-14-S_2025	MS-22-S_2025	MS-23-S_2025	MS-24-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15	
					WT2519862-001	WT2519862-002	WT2519862-003	WT2519862-004	WT2519862-005	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.075mm)	----	E182/SK	1.0	%	13.0	38.0	10.2	9.7	4.0	
Passing (0.125mm)	----	E182/SK	1.0	%	24.4	57.5	15.9	15.7	7.2	
Passing (0.149mm)	----	E182/SK	1.0	%	31.8	62.7	20.0	22.6	10.5	
Passing (0.250mm)	----	E182/SK	1.0	%	62.9	84.6	37.6	51.6	24.6	
Passing (0.420mm)	----	E182/SK	1.0	%	79.2	92.4	55.2	69.2	44.6	
Passing (0.50mm)	----	E182/SK	1.0	%	86.9	96.1	63.5	77.5	53.9	
Passing (0.841mm)	----	E182/SK	1.0	%	92.2	98.1	70.8	85.1	65.2	
Passing (1.0mm)	----	E182/SK	1.0	%	94.8	99.0	74.2	88.6	70.5	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	98.4	99.8	79.3	95.1	81.3	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	99.6	100.0	86.2	98.9	88.4	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	100.0	100.0	91.5	100.0	96.4	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2330	4300	3600	1720	1980	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.28	0.56	0.31	0.21	0.24	
Barium	7440-39-3	E440/WT	0.50	mg/kg	7.56	13.2	15.2	7.84	7.87	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-13-S_2025 ----	MS-14-S_2025 ----	MS-22-S_2025 ----	MS-23-S_2025 ----	MS-24-S_2025 ----
					Client sampling date / time	17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-001	WT2519862-002	WT2519862-003	WT2519862-004	WT2519862-005	
					Result	Result	Result	Result	Result	
Metals										
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	<0.10	0.20	0.17	<0.10	0.10	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	6.3	7.3	<5.0	<5.0	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	
Calcium	7440-70-2	E440/WT	50	mg/kg	932	1980	1180	397	636	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	9.38	14.5	13.3	4.48	7.48	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.88	3.04	2.60	1.17	1.57	
Copper	7440-50-8	E440/WT	0.50	mg/kg	2.90	3.29	3.50	1.29	2.06	
Iron	7439-89-6	E440/WT	50	mg/kg	7290	6890	9280	3220	5850	
Lead	7439-92-1	E440/WT	0.50	mg/kg	2.90	4.04	2.50	2.43	1.80	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	4.4	7.0	6.5	2.4	3.9	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1490	2680	2770	654	1320	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	60.3	74.9	77.5	55.2	47.0	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	0.16	<0.10	<0.10	<0.10	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	6.52	8.52	6.06	1.92	3.58	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	271	595	237	128	220	
Potassium	7440-09-7	E440/WT	100	mg/kg	430	810	810	270	390	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	71	<50	<50	<50	



Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-13-S_2025 ----	MS-14-S_2025 ----	MS-22-S_2025 ----	MS-23-S_2025 ----	MS-24-S_2025 ----
Client sampling date / time					17-Jul-2025 10:10	17-Jul-2025 09:30	17-Jul-2025 12:10	17-Jul-2025 13:10	17-Jul-2025 14:15
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-001	WT2519862-002	WT2519862-003	WT2519862-004	WT2519862-005
					Result	Result	Result	Result	Result
Metals									
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.52	4.70	2.90	1.72	2.28
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	0.069	0.056	<0.050	<0.050
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg	257	538	388	116	238
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.405	1.20	0.598	0.162	0.434
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	13.4	16.0	14.8	5.31	9.66
Zinc	7440-66-6	E440/WT	2.0	mg/kg	7.1	12.1	13.0	6.3	6.9
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	2.5	<1.0	<1.0	<1.0

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID				
					MS-24-S_2025R ----	MS-25-S_2025 ----	MP-12-S_2025 ----	MP-13-S_2025 ----	MP-14-S_2025 ----
Client sampling date / time					17-Jul-2025 14:15	17-Jul-2025 11:00	18-Jul-2025 15:30	18-Jul-2025 12:45	18-Jul-2025 14:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-006	WT2519862-007	WT2519862-008	WT2519862-009	WT2519862-010
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/WT	0.25	%	4.55	16.2	13.2	51.3	16.9
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	4.33	6.34	7.48	6.55	6.46
Particle Size									
Gravel (>2mm)	----	EC184A/SK	1.0	%	22.8	14.0	8.9	4.9	13.5



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-24-S_2025R	MS-25-S_2025	MP-12-S_2025	MP-13-S_2025	MP-14-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-006	WT2519862-007	WT2519862-008	WT2519862-009	WT2519862-010	
					Result	Result	Result	Result	Result	
Particle Size										
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	9.2	6.5	11.1	7.1	11.8	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	15.9	10.2	10.7	5.0	12.1	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	29.2	25.1	16.1	5.8	17.4	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	15.7	21.5	16.3	8.4	15.4	
Sand (0.125mm - 0.063mm)	----	EC184A/SK	1.0	%	3.6	6.3	8.9	7.7	6.9	
Silt (0.0312mm - 0.004mm)	----	EC184A/SK	1.0	%	1.8	8.0	13.9	31.4	11.5	
Silt (0.063mm - 0.0312mm)	----	EC184A/SK	1.0	%	1.8	6.7	9.2	27.3	9.1	
Clay (<0.004mm)	----	EC184A/SK	1.0	%	<1.0	1.7	4.9	2.4	2.3	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	See Attached	See Attached	See Attached	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	<1.0	1.0	3.4	<1.0	1.4	
Passing (0.004mm)	----	E184/SK	1.0	%	<1.0	1.7	4.9	2.4	2.3	
Passing (0.005mm)	----	E184/SK	1.0	%	<1.0	2.0	5.6	3.1	2.8	
Passing (0.020mm)	----	E184/SK	1.0	%	1.2	6.5	14.4	18.5	9.2	
Passing (0.0312mm)	----	E184/SK	1.0	%	1.8	9.7	18.8	33.8	13.8	
Passing (0.05mm)	----	E182/SK	1.0	%	2.8	15.0	26.1	59.5	21.4	
Passing (0.063mm)	----	E182/SK	1.0	%	3.6	16.4	28.0	61.1	22.9	
Passing (0.075mm)	----	E182/SK	1.0	%	4.3	17.6	29.7	62.6	24.2	
Passing (0.125mm)	----	E182/SK	1.0	%	7.2	22.7	36.9	68.8	29.8	
Passing (0.149mm)	----	E182/SK	1.0	%	10.3	26.8	40.1	70.4	32.8	
Passing (0.250mm)	----	E182/SK	1.0	%	22.9	44.2	53.2	77.2	45.2	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-24-S_2025R	MS-25-S_2025	MP-12-S_2025	MP-13-S_2025	MP-14-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-006	WT2519862-007	WT2519862-008	WT2519862-009	WT2519862-010	
					Result	Result	Result	Result	Result	
Percent Passing										
Passing (0.420mm)	----	E182/SK	1.0	%	42.8	61.2	64.1	81.2	57.0	
Passing (0.50mm)	----	E182/SK	1.0	%	52.1	69.3	69.3	83.0	62.6	
Passing (0.841mm)	----	E182/SK	1.0	%	63.0	76.2	76.6	86.4	70.8	
Passing (1.0mm)	----	E182/SK	1.0	%	68.0	79.5	80.0	88.0	74.7	
Passing (19mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (2.0mm)	----	E181/SK	1.0	%	77.2	86.0	91.1	95.1	86.5	
Passing (25.4mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (38.1mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (4.75mm)	----	E181/SK	1.0	%	85.1	90.3	97.4	96.7	92.2	
Passing (50.8mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (76.2mm)	----	E181/SK	1.0	%	100.0	100.0	100.0	100.0	100.0	
Passing (9.5mm)	----	E181/SK	1.0	%	94.4	92.5	100.0	100.0	97.9	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	2230	4080	5200	5610	4700	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	0.26	0.48	1.31	2.04	0.70	
Barium	7440-39-3	E440/WT	0.50	mg/kg	9.04	13.2	12.3	19.9	9.12	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.16	0.20	0.34	0.40	0.34	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/WT	5.0	mg/kg	<5.0	6.2	16.0	17.3	6.3	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	0.025	0.179	0.033	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MS-24-S_2025R	MS-25-S_2025	MP-12-S_2025	MP-13-S_2025	MP-14-S_2025
					Client sampling date / time	----	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-006	WT2519862-007	WT2519862-008	WT2519862-009	WT2519862-010	
					Result	Result	Result	Result	Result	
Metals										
Calcium	7440-70-2	E440/WT	50	mg/kg	837	2680	58000	18700	2870	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	7.89	19.7	12.1	11.4	10.5	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	1.61	3.74	2.86	4.30	2.77	
Copper	7440-50-8	E440/WT	0.50	mg/kg	2.59	4.25	6.02	18.0	4.08	
Iron	7439-89-6	E440/WT	50	mg/kg	6440	8020	9440	9360	8630	
Lead	7439-92-1	E440/WT	0.50	mg/kg	1.99	3.42	5.34	11.6	4.78	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	4.3	9.0	17.8	13.6	16.9	
Magnesium	7439-95-4	E440/WT	20	mg/kg	1390	3940	21300	4100	3670	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	51.9	118	165	394	162	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	<0.0050	0.0101	0.0064	0.0584	0.0076	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	<0.10	<0.10	0.24	0.66	0.18	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	3.86	20.6	7.23	7.50	6.17	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	278	245	191	600	158	
Potassium	7440-09-7	E440/WT	100	mg/kg	440	730	760	710	520	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	<0.20	0.50	<0.20	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/WT	50	mg/kg	<50	<50	74	52	72	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	2.74	2.75	34.1	15.6	3.15	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	<1000	1600	<1000	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	<0.050	0.068	0.104	0.166	0.064	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	



Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID	MS-24-S_2025R ----	MS-25-S_2025 ----	MP-12-S_2025 ----	MP-13-S_2025 ----	MP-14-S_2025 ----
					Client sampling date / time	17-Jul-2025 14:15	17-Jul-2025 11:00	18-Jul-2025 15:30	18-Jul-2025 12:45	18-Jul-2025 14:05
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-006	WT2519862-007	WT2519862-008	WT2519862-009	WT2519862-010	
					Result	Result	Result	Result	Result	
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg	268	304	264	194	323	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.481	0.480	1.25	57.5	8.46	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	10.2	13.4	13.5	15.4	13.4	
Zinc	7440-66-6	E440/WT	2.0	mg/kg	7.5	13.2	15.8	28.7	19.2	
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	<1.0	<1.0	1.3	3.0	1.6	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil/Solid (Matrix: Soil/Solid)					Client sample ID	MP-15-S_2025 ----	MP-29-S_2025 ----	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-011	WT2519862-012	----	----	----	
					Result	Result	----	----	----	
Physical Tests										
Moisture	----	E144/WT	0.25	%	11.3	11.4	----	----	----	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units	7.50	5.98	----	----	----	
Particle Size										
Gravel (>2mm)	----	EC184A/SK	1.0	%	14.4	1.4	----	----	----	
Sand (2.0mm - 1.0mm)	----	EC184A/SK	1.0	%	6.8	2.4	----	----	----	
Sand (1.0mm - 0.50mm)	----	EC184A/SK	1.0	%	7.3	6.0	----	----	----	
Sand (0.5mm - 0.25mm)	----	EC184A/SK	1.0	%	11.2	37.2	----	----	----	
Sand (0.25mm - 0.125mm)	----	EC184A/SK	1.0	%	11.0	37.7	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-15-S_2025	MP-29-S_2025	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-011	WT2519862-012	----	----	----	
					Result	Result	----	----	----	
Particle Size										
Sand (0.125mm - 0.063mm)	----	EC184/SK	1.0	%	7.2	6.9	----	----	----	
Silt (0.0312mm - 0.004mm)	----	EC184/SK	1.0	%	22.5	3.4	----	----	----	
Silt (0.063mm - 0.0312mm)	----	EC184/SK	1.0	%	13.9	3.9	----	----	----	
Clay (<0.004mm)	----	EC184/SK	1.0	%	5.7	1.1	----	----	----	
Grain size curve	----	E185A/SK	-	-	See Attached	See Attached	----	----	----	
Percent Passing										
Passing (0.002mm)	----	E184/SK	1.0	%	3.3	<1.0	----	----	----	
Passing (0.004mm)	----	E184/SK	1.0	%	5.7	1.1	----	----	----	
Passing (0.005mm)	----	E184/SK	1.0	%	6.8	1.2	----	----	----	
Passing (0.020mm)	----	E184/SK	1.0	%	20.9	3.1	----	----	----	
Passing (0.0312mm)	----	E184/SK	1.0	%	28.2	4.5	----	----	----	
Passing (0.05mm)	----	E182/SK	1.0	%	40.6	6.9	----	----	----	
Passing (0.063mm)	----	E182/SK	1.0	%	42.1	8.4	----	----	----	
Passing (0.075mm)	----	E182/SK	1.0	%	43.5	9.7	----	----	----	
Passing (0.125mm)	----	E182/SK	1.0	%	49.3	15.3	----	----	----	
Passing (0.149mm)	----	E182/SK	1.0	%	51.4	22.6	----	----	----	
Passing (0.250mm)	----	E182/SK	1.0	%	60.3	53.0	----	----	----	
Passing (0.420mm)	----	E182/SK	1.0	%	67.9	78.3	----	----	----	
Passing (0.50mm)	----	E182/SK	1.0	%	71.5	90.2	----	----	----	
Passing (0.841mm)	----	E182/SK	1.0	%	76.5	94.3	----	----	----	
Passing (1.0mm)	----	E182/SK	1.0	%	78.8	96.2	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-15-S_2025	MP-29-S_2025	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-011	WT2519862-012	----	----	----	
					Result	Result	----	----	----	
Percent Passing										
Passing (19mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (2.0mm)	---	E181/SK	1.0	%	85.6	98.6	----	----	----	
Passing (25.4mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (38.1mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (4.75mm)	---	E181/SK	1.0	%	92.4	99.8	----	----	----	
Passing (50.8mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (76.2mm)	---	E181/SK	1.0	%	100.0	100.0	----	----	----	
Passing (9.5mm)	---	E181/SK	1.0	%	97.3	100.0	----	----	----	
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg	4680	1020	----	----	----	
Antimony	7440-36-0	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Arsenic	7440-38-2	E440/WT	0.10	mg/kg	1.00	0.33	----	----	----	
Barium	7440-39-3	E440/WT	0.50	mg/kg	12.5	3.83	----	----	----	
Beryllium	7440-41-7	E440/WT	0.10	mg/kg	0.30	<0.10	----	----	----	
Bismuth	7440-69-9	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Boron	7440-42-8	E440/WT	5.0	mg/kg	16.5	<5.0	----	----	----	
Cadmium	7440-43-9	E440/WT	0.020	mg/kg	<0.020	<0.020	----	----	----	
Calcium	7440-70-2	E440/WT	50	mg/kg	76300	773	----	----	----	
Chromium	7440-47-3	E440/WT	0.50	mg/kg	9.01	2.38	----	----	----	
Cobalt	7440-48-4	E440/WT	0.10	mg/kg	2.53	0.89	----	----	----	
Copper	7440-50-8	E440/WT	0.50	mg/kg	4.92	0.81	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
 (Matrix: Soil/Solid)

					Client sample ID	MP-15-S_2025	MP-29-S_2025	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-011	WT2519862-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Iron	7439-89-6	E440/WT	50	mg/kg	7490	2310	----	----	----	
Lead	7439-92-1	E440/WT	0.50	mg/kg	4.67	1.67	----	----	----	
Lithium	7439-93-2	E440/WT	2.0	mg/kg	17.1	2.7	----	----	----	
Magnesium	7439-95-4	E440/WT	20	mg/kg	20300	597	----	----	----	
Manganese	7439-96-5	E440/WT	1.0	mg/kg	133	47.3	----	----	----	
Mercury	7439-97-6	E510/WT	0.0050	mg/kg	0.0061	<0.0050	----	----	----	
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg	0.15	<0.10	----	----	----	
Nickel	7440-02-0	E440/WT	0.50	mg/kg	5.70	1.15	----	----	----	
Phosphorus	7723-14-0	E440/WT	50	mg/kg	172	60	----	----	----	
Potassium	7440-09-7	E440/WT	100	mg/kg	790	210	----	----	----	
Selenium	7782-49-2	E440/WT	0.20	mg/kg	<0.20	<0.20	----	----	----	
Silver	7440-22-4	E440/WT	0.10	mg/kg	<0.10	<0.10	----	----	----	
Sodium	7440-23-5	E440/WT	50	mg/kg	89	<50	----	----	----	
Strontium	7440-24-6	E440/WT	0.50	mg/kg	43.5	1.61	----	----	----	
Sulfur	7704-34-9	E440/WT	1000	mg/kg	<1000	<1000	----	----	----	
Thallium	7440-28-0	E440/WT	0.050	mg/kg	0.095	<0.050	----	----	----	
Tin	7440-31-5	E440/WT	2.0	mg/kg	<2.0	<2.0	----	----	----	
Titanium	7440-32-6	E440/WT	1.0	mg/kg	244	67.1	----	----	----	
Tungsten	7440-33-7	E440/WT	0.50	mg/kg	<0.50	<0.50	----	----	----	
Uranium	7440-61-1	E440/WT	0.050	mg/kg	0.910	0.240	----	----	----	
Vanadium	7440-62-2	E440/WT	0.20	mg/kg	11.9	3.91	----	----	----	



Analytical Results

Sub-Matrix: Soil/Solid
(Matrix: Soil/Solid)

					Client sample ID	MP-15-S_2025 ----	MP-29-S_2025 ----	----	----	----
					Client sampling date / time	18-Jul-2025 14:50	18-Jul-2025 13:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2519862-011	WT2519862-012	----	----	----	----
					Result	Result	----	----	----	----
Metals										
Zinc	7440-66-6	E440/WT	2.0	mg/kg	12.6	4.2	----	----	----	----
Zirconium	7440-67-7	E440/WT	1.0	mg/kg	2.0	<1.0	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2519862</p> <p>Client : Baffinland Iron Mines Corporation</p> <p>Contact : Environmental Lab Results</p> <p>Address : 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8</p> <p>Telephone : ----</p> <p>Project : 25C0127_2025_METALS_SAMPLING</p> <p>PO : 4500156571</p> <p>C-O-C number : ----</p> <p>Sampler : BD/AL</p> <p>Site : ----</p> <p>Quote number : 2024-2025 Scope of Work</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 17</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Rick Hawthorne</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 23-Jul-2025 09:30</p> <p>Issue Date : 30-Jul-2025 18:10</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- Reference Material (RM) Sample outliers occur - please see the following pages for full details.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-2127900 002	----	Silver	7440-22-4	E440	58.8 % RRQC	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
RRQC	Refer to report comments for information regarding this QC result.

Reference Material (RM) Sample								
Metals	QC-MRG2-2127900 003	----	Zirconium	7440-67-7	E440	133 % MES	70.0-130%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-12-S_2025	E510	18-Jul-2025	28-Jul-2025	28 days	10 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-13-S_2025	E510	18-Jul-2025	28-Jul-2025	28 days	10 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-14-S_2025	E510	18-Jul-2025	28-Jul-2025	28 days	10 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-15-S_2025	E510	18-Jul-2025	28-Jul-2025	28 days	10 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MP-29-S_2025	E510	18-Jul-2025	28-Jul-2025	28 days	10 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-25-S_2025	E510	17-Jul-2025	28-Jul-2025	28 days	11 days	✔	28-Jul-2025	28 days	0 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-13-S_2025	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-14-S_2025	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-22-S_2025	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-23-S_2025	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-24-S_2025	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag MS-24-S_2025R	E510	17-Jul-2025	29-Jul-2025	28 days	12 days	✔	30-Jul-2025	28 days	1 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-12-S_2025	E440	18-Jul-2025	28-Jul-2025	180 days	10 days	✔	28-Jul-2025	180 days	10 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-13-S_2025	E440	18-Jul-2025	28-Jul-2025	180 days	10 days	✔	28-Jul-2025	180 days	10 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-14-S_2025	E440	18-Jul-2025	28-Jul-2025	180 days	10 days	✔	28-Jul-2025	180 days	10 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag MP-15-S_2025	E440	18-Jul-2025	28-Jul-2025	180 days	10 days	✔	28-Jul-2025	180 days	10 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MP-29-S_2025	E440	18-Jul-2025	28-Jul-2025	180 days	10 days	✔	28-Jul-2025	180 days	10 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-25-S_2025	E440	17-Jul-2025	28-Jul-2025	180 days	11 days	✔	28-Jul-2025	180 days	11 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-13-S_2025	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-14-S_2025	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-22-S_2025	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-23-S_2025	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-24-S_2025	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS											
LDPE bag MS-24-S_2025R	E440	17-Jul-2025	29-Jul-2025	180 days	12 days	✔	30-Jul-2025	180 days	12 days	✔	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MP-12-S_2025	E185A	18-Jul-2025	----	----	----		30-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-13-S_2025	E185A	18-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-14-S_2025	E185A	18-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-15-S_2025	E185A	18-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MP-29-S_2025	E185A	18-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-13-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-14-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-22-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-23-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----	
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method										
LDPE bag MS-24-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-24-S_2025R	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----		
Particle Size : Grain Size Report (Attachment) Pipet/Sieve Method											
LDPE bag MS-25-S_2025	E185A	17-Jul-2025	----	----	----		30-Jul-2025	----	----		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-12-S_2025	E184	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-13-S_2025	E184	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-14-S_2025	E184	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-15-S_2025	E184	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MP-29-S_2025	E184	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-13-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-14-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-22-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-23-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-24-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-24-S_2025R	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Pipette Method											
LDPE bag MS-25-S_2025	E184	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-12-S_2025	E182	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-13-S_2025	E182	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-14-S_2025	E182	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-15-S_2025	E182	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MP-29-S_2025	E182	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-13-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-14-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-22-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-23-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-24-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-24-S_2025R	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve <2mm											
LDPE bag MS-25-S_2025	E182	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-12-S_2025	E181	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-13-S_2025	E181	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-14-S_2025	E181	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-15-S_2025	E181	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MP-29-S_2025	E181	18-Jul-2025	28-Jul-2025	365 days	10 days	✔	28-Jul-2025	365 days	10 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-13-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-14-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-22-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-23-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-24-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-24-S_2025R	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Percent Passing : Particle Size Analysis - Sieve >2mm											
LDPE bag MS-25-S_2025	E181	17-Jul-2025	28-Jul-2025	365 days	11 days	✔	28-Jul-2025	365 days	11 days	✔	
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-12-S_2025	E144	18-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-13-S_2025	E144	18-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-14-S_2025	E144	18-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-15-S_2025	E144	18-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MP-29-S_2025	E144	18-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-13-S_2025	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-14-S_2025	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-22-S_2025	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-23-S_2025	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-24-S_2025	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-24-S_2025R	E144	17-Jul-2025	----	----	----		25-Jul-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
LDPE bag MS-25-S_2025	E144	17-Jul-2025	----	----	----		28-Jul-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-12-S_2025	E108A	18-Jul-2025	28-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-13-S_2025	E108A	18-Jul-2025	28-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-14-S_2025	E108A	18-Jul-2025	28-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
LDPE bag MP-15-S_2025	E108A	18-Jul-2025	28-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MP-29-S_2025	E108A	18-Jul-2025	28-Jul-2025	30 days	10 days	✔	30-Jul-2025	30 days	10 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-25-S_2025	E108A	17-Jul-2025	28-Jul-2025	30 days	11 days	✔	30-Jul-2025	30 days	11 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-13-S_2025	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-14-S_2025	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-22-S_2025	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-23-S_2025	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-24-S_2025	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
LDPE bag MS-24-S_2025R	E108A	17-Jul-2025	25-Jul-2025	30 days	8 days	✔	30-Jul-2025	30 days	8 days	✔

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2129929	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2129930	2	37	5.4	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131166	1	17	5.8	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131165	1	17	5.8	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	2	26	7.6	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2127901	2	26	7.6	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2129929	2	40	5.0	5.0	✔
Moisture Content by Gravimetry	E144	2129930	2	37	5.4	5.0	✔
Particle Size Analysis - Sieve >2mm	E181	2131167	1	17	5.8	5.0	✔
Particle Size Analysis - Sieve <2mm	E182	2131166	1	17	5.8	5.0	✔
Particle Size Analysis - Pipette Method	E184	2131165	1	17	5.8	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2127900	4	26	15.3	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2127901	4	26	15.3	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2129930	2	37	5.4	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2126996	2	26	7.6	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2127901	2	26	7.6	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Particle Size Analysis - Sieve >2mm	E181 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material retained on the sieve is then further sieved through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Sieve <2mm	E182 ALS Environmental - Saskatoon	Soil/Solid	ASTM D6913-17 (mod)	Soil samples are disaggregated and sieved through a 2mm sieve. Material passed through the sieve is then further disaggregated using calgon solution and passed through a series of sieves. The amount passing through the sieves is measured gravimetrically.
Particle Size Analysis - Pipette Method	E184 ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	Soil material is separated from coarse material (>2mm). A specimen is then disaggregated through mixing with Calgon solution. The material is then suspended in solution wherein regular aliquots are taken using a mechanical pipette at specific time intervals. The aliquots are dried and material in suspension determined gravimetrically. The principles of Stokes' Law are applied to determine the amount of material remaining in solution as well as the maximum particle size remaining in solution at the specified time.
Grain Size Report (Attachment) Pipet/Sieve Method	E185A ALS Environmental - Saskatoon	Soil/Solid	SSIR-51 Method 3.2.1	A grain size curve is a graphical representation of the particle sizing of a sample representing the percent passing against the effective particle size.



<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Particle Size Analysis (Pipette) - Wentworth Classification	EC184A ALS Environmental - Saskatoon	Soil/Solid	Modified Wentworth	The particle size determination is performed by various methods to generate a Grain Size curve. The data from the curve is then used to produce particle size ranges based on the Modified Wentworth Classification system.
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Leach 1:2 Soil : 0.01CaCl ₂ - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.

QUALITY CONTROL REPORT

Work Order	: WT2519862	Page	: 1 of 14
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Waterloo
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 25C0127_2025_METALS_SAMPLING	Date Samples Received	: 23-Jul-2025 09:30
PO	: 4500156571	Date Analysis Commenced	: 25-Jul-2025
C-O-C number	: ----	Issue Date	: 30-Jul-2025 18:10
Sampler	: BD/AL		
Site	: ----		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Colby Bingham	Laboratory Supervisor	Saskatoon Inorganics, Saskatoon, Saskatchewan
Hedy Lai	Team Leader - Inorganics	Saskatoon Sask Soils, Saskatoon, Saskatchewan
Josphin Masihi	Supervisor I	Waterloo Centralized Prep, Waterloo, Ontario
Nik Perkio	Senior Analyst	Waterloo Inorganics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Waterloo Metals, Waterloo, Ontario
Niral Patel		Waterloo Centralized Prep, Waterloo, Ontario

Page : 2 of 14
Work Order : WT2519862
Client : Baffinland Iron Mines Corporation
Project : 25C0127_2025_METALS_SAMPLING



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2126998)											
WT2519854-009	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	5.96	6.24	4.59%	5%	----
Physical Tests (QC Lot: 2127000)											
WT2519854-010	Anonymous	Moisture	----	E144	0.25	%	19.8	18.5	6.70%	20%	----
Physical Tests (QC Lot: 2129929)											
WT2519830-003	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.48	7.49	0.134%	5%	----
Physical Tests (QC Lot: 2129930)											
WT2519862-012	MP-29-S_2025	Moisture	----	E144	0.25	%	11.4	11.2	1.44%	20%	----
Percent Passing (QC Lot: 2131165)											
VA25B8198-003	Anonymous	Passing (0.002mm)	----	E184	1.0	%	<1.0	<1.0	0	Diff <2x LOR	----
		Passing (0.004mm)	----	E184	1.0	%	1.2	1.2	0.0	Diff <2x LOR	----
		Passing (0.005mm)	----	E184	1.0	%	1.4	1.4	0.0	Diff <2x LOR	----
		Passing (0.020mm)	----	E184	1.0	%	3.2	3.5	0.2	Diff <2x LOR	----
		Passing (0.0312mm)	----	E184	1.0	%	4.4	4.6	0.2	Diff <2x LOR	----
Percent Passing (QC Lot: 2131166)											
VA25B8198-003	Anonymous	Passing (0.05mm)	----	E182	1.0	%	6.5	6.6	0.1	Diff <2x LOR	----
		Passing (0.063mm)	----	E182	1.0	%	7.5	7.6	0.1	Diff <2x LOR	----
		Passing (0.075mm)	----	E182	1.0	%	8.4	8.4	0.0	Diff <2x LOR	----
		Passing (0.125mm)	----	E182	1.0	%	12.4	12.1	0.3	Diff <2x LOR	----
		Passing (0.149mm)	----	E182	1.0	%	16.0	15.6	2.88%	15%	----
		Passing (0.250mm)	----	E182	1.0	%	31.3	30.1	3.71%	15%	----
		Passing (0.420mm)	----	E182	1.0	%	48.2	47.4	1.70%	15%	----
		Passing (0.50mm)	----	E182	1.0	%	56.2	55.5	1.18%	15%	----
		Passing (0.841mm)	----	E182	1.0	%	63.0	62.7	0.468%	15%	----
		Passing (1.0mm)	----	E182	1.0	%	66.1	66.0	0.187%	15%	----
Metals (QC Lot: 2126996)											
WT2519854-009	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	1970	2240	12.6%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	0.35	0.33	0.03	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	9.33	9.84	5.30%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	0.10	0.003	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2126996) - continued											
WT2519854-009	Anonymous	Bismuth	7440-69-9	E440	0.20	mg/kg	0.26	<0.20	0.06	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	1580	1710	7.43%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	11.4	13.6	17.5%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	2.00	2.12	5.73%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	2.99	2.91	0.08	Diff <2x LOR	----
		Iron	7439-89-6	E440	50	mg/kg	6520	6540	0.187%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	2.44	2.45	0.009	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	2.5	3.3	0.7	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	1720	1990	14.1%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	55.6	63.3	13.0%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.23	0.10	0.13	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	8.31	9.54	13.7%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	218	248	31	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	290	350	60	Diff <2x LOR	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	2.57	2.76	7.04%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
Titanium	7440-32-6	E440	1.0	mg/kg	220	251	13.2%	40%	----		
Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		
Uranium	7440-61-1	E440	0.050	mg/kg	0.668	0.786	16.2%	30%	----		
Vanadium	7440-62-2	E440	0.20	mg/kg	9.93	11.4	13.7%	30%	----		
Zinc	7440-66-6	E440	2.0	mg/kg	6.8	7.8	1.1	Diff <2x LOR	----		
Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----		
Metals (QC Lot: 2126997)											
WT2519854-009	Anonymous	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0063	0.0065	0.0002	Diff <2x LOR	----
Metals (QC Lot: 2127900)											
WT2519862-008	MP-12-S_2025	Aluminum	7429-90-5	E440	50	mg/kg	5200	5080	2.30%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2127900) - continued											
WT2519862-008	MP-12-S_2025	Arsenic	7440-38-2	E440	0.10	mg/kg	1.31	1.12	15.4%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	12.3	12.3	0.556%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.34	0.33	0.004	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	16.0	21.0	5.0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.025	0.023	0.002	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	58000	64400	10.4%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	12.1	10.4	14.7%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	2.86	2.79	2.63%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	6.02	5.78	4.21%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	9440	8380	11.9%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	5.34	5.08	4.99%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	17.8	18.8	5.65%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	21300	24800	15.5%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	165	166	0.971%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.24	0.19	0.04	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	7.23	6.60	9.12%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	191	188	4	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	760	790	3.05%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	74	67	8	Diff <2x LOR	----
		Strontium	7440-24-6	E440	0.50	mg/kg	34.1	35.7	4.67%	40%	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----		
Thallium	7440-28-0	E440	0.050	mg/kg	0.104	0.106	0.002	Diff <2x LOR	----		
Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----		
Titanium	7440-32-6	E440	1.0	mg/kg	264	260	1.71%	40%	----		
Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		
Uranium	7440-61-1	E440	0.050	mg/kg	1.25	1.21	3.39%	30%	----		
Vanadium	7440-62-2	E440	0.20	mg/kg	13.5	13.4	1.16%	30%	----		
Zinc	7440-66-6	E440	2.0	mg/kg	15.8	14.4	9.42%	30%	----		
Zirconium	7440-67-7	E440	1.0	mg/kg	1.3	1.2	0.1	Diff <2x LOR	----		
Metals (QC Lot: 2127901)											
WT2519862-008	MP-12-S_2025	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0064	0.0061	0.0002	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2127000)						
Moisture	---	E144	0.25	%	<0.25	---
Physical Tests (QCLot: 2129930)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2126996)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2126996) - continued						
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2126997)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2127900)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----



Sub-Matrix: **Soil/Solid**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Metals (QCLot: 2127900) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 2127901)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2126998)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2127000)									
Moisture	---	E144	0.25	%	50 %	98.7	90.0	110	---
Physical Tests (QCLot: 2129929)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2129930)									
Moisture	---	E144	0.25	%	50 %	100.0	90.0	110	---
Metals (QCLot: 2126996)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	98.6	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	96.0	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	99.9	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	92.5	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	99.5	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	93.0	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	92.2	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	94.7	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	97.5	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	95.8	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	95.3	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	97.2	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	102	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	89.8	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	99.9	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	97.9	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.8	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	99.8	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	99.3	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	98.9	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	90.2	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.9	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2126996) - continued									
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	97.4	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	93.6	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	100	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	94.4	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	96.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	99.1	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	99.2	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	95.4	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	93.3	80.0	120	----
Metals (QCLot: 2126997)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	98.5	80.0	120	----
Metals (QCLot: 2127900)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	89.0	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	85.4	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	88.0	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	90.0	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	91.8	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	88.0	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	91.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	87.7	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	88.6	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	88.0	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	85.5	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	85.6	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	87.5	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	87.3	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	99.1	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	92.0	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	87.7	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	85.6	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	85.4	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	86.1	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	87.6	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	85.7	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 58.8	80.0	120	RRQC
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	92.0	80.0	120	----



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2127900) - continued									
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	89.6	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	84.0	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	88.1	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	85.8	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	81.5	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	91.4	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	88.4	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	81.6	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	84.8	80.0	120	----
Metals (QCLot: 2127901)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	92.5	80.0	120	----

Qualifiers

Qualifier	Description
RRQC	Refer to report comments for information regarding this QC result.



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Percent Passing (QCLot: 2131165)									
QC-2131165-001	RM	Passing (0.002mm)	----	E184	22.5 %	101	74.1	126	----
QC-2131165-001	RM	Passing (0.004mm)	----	E184	25.1 %	102	76.8	123	----
QC-2131165-001	RM	Passing (0.005mm)	----	E184	26.5 %	102	77.9	122	----
QC-2131165-001	RM	Passing (0.020mm)	----	E184	41.8 %	99.2	85.8	114	----
QC-2131165-001	RM	Passing (0.0312mm)	----	E184	45.6 %	102	88.0	112	----
Percent Passing (QCLot: 2131166)									
QC-2131166-001	RM	Passing (0.05mm)	----	E182	54.1 %	103	90.0	110	----
QC-2131166-001	RM	Passing (0.063mm)	----	E182	57.1 %	101	90.8	109	----
QC-2131166-001	RM	Passing (0.075mm)	----	E182	60.2 %	100	91.4	109	----
QC-2131166-001	RM	Passing (0.125mm)	----	E182	68.2 %	102	92.7	107	----
QC-2131166-001	RM	Passing (0.149mm)	----	E182	72 %	99.9	93.1	107	----
QC-2131166-001	RM	Passing (0.250mm)	----	E182	82.3 %	100	94.1	106	----
QC-2131166-001	RM	Passing (0.420mm)	----	E182	89.9 %	98.6	94.6	105	----
QC-2131166-001	RM	Passing (0.50mm)	----	E182	91.2 %	100	94.7	105	----
QC-2131166-001	RM	Passing (0.841mm)	----	E182	95.6 %	99.2	94.9	105	----
QC-2131166-001	RM	Passing (1.0mm)	----	E182	96.3 %	100	94.9	105	----
Percent Passing (QCLot: 2131167)									
QC-2131167-001	RM	Passing (19mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (2.0mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (25.4mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (38.1mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (4.75mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (50.8mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (76.2mm)	----	E181	100 %	100	90.0	110	----
QC-2131167-001	RM	Passing (9.5mm)	----	E181	100 %	100	90.0	110	----
Metals (QCLot: 2126996)									
QC-2126996-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	90.8	70.0	130	----
QC-2126996-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Barium	7440-39-3	E440	788 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	101	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2126996) - continued									
QC-2126996-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	96.2	70.0	130	----
QC-2126996-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	98.3	70.0	130	----
QC-2126996-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	97.1	70.0	130	----
QC-2126996-003	RM	Copper	7440-50-8	E440	969 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Iron	7439-89-6	E440	32700 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Lead	7439-92-1	E440	919 mg/kg	96.0	70.0	130	----
QC-2126996-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	93.2	70.0	130	----
QC-2126996-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	106	70.0	130	----
QC-2126996-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	98.4	70.0	130	----
QC-2126996-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	97.0	70.0	130	----
QC-2126996-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	95.5	70.0	130	----
QC-2126996-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	102	70.0	130	----
QC-2126996-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	106	60.0	140	----
QC-2126996-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	95.0	70.0	130	----
QC-2126996-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	105	70.0	130	----
QC-2126996-003	RM	Strontium	7440-24-6	E440	41 mg/kg	100	70.0	130	----
QC-2126996-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	93.4	50.0	150	----
QC-2126996-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	98.7	70.0	130	----
QC-2126996-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	98.8	40.0	160	----
QC-2126996-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	101	70.0	130	----
QC-2126996-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	103	70.0	130	----
QC-2126996-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	86.3	70.0	130	----
QC-2126996-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	98.2	70.0	130	----
QC-2126996-003	RM	Zinc	7440-66-6	E440	828 mg/kg	95.8	70.0	130	----
QC-2126996-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	101	70.0	130	----
Metals (QCLot: 2126997)									
QC-2126997-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	99.2	70.0	130	----
Metals (QCLot: 2127900)									
QC-2127900-003	RM	Aluminum	7429-90-5	E440	22500 mg/kg	99.4	70.0	130	----
QC-2127900-003	RM	Antimony	7440-36-0	E440	24.8 mg/kg	94.4	70.0	130	----
QC-2127900-003	RM	Arsenic	7440-38-2	E440	21.2 mg/kg	93.1	70.0	130	----
QC-2127900-003	RM	Barium	7440-39-3	E440	788 mg/kg	95.5	70.0	130	----
QC-2127900-003	RM	Beryllium	7440-41-7	E440	1.82 mg/kg	104	70.0	130	----
QC-2127900-003	RM	Bismuth	7440-69-9	E440	1.78 mg/kg	84.7	70.0	130	----
QC-2127900-003	RM	Cadmium	7440-43-9	E440	2.15 mg/kg	91.5	70.0	130	----
QC-2127900-003	RM	Calcium	7440-70-2	E440	4900 mg/kg	97.7	70.0	130	----



Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2127900) - continued									
QC-2127900-003	RM	Chromium	7440-47-3	E440	56.9 mg/kg	93.7	70.0	130	----
QC-2127900-003	RM	Cobalt	7440-48-4	E440	32 mg/kg	92.3	70.0	130	----
QC-2127900-003	RM	Copper	7440-50-8	E440	969 mg/kg	95.2	70.0	130	----
QC-2127900-003	RM	Iron	7439-89-6	E440	32700 mg/kg	97.9	70.0	130	----
QC-2127900-003	RM	Lead	7439-92-1	E440	919 mg/kg	90.4	70.0	130	----
QC-2127900-003	RM	Lithium	7439-93-2	E440	47.3 mg/kg	109	70.0	130	----
QC-2127900-003	RM	Magnesium	7439-95-4	E440	7780 mg/kg	95.2	70.0	130	----
QC-2127900-003	RM	Manganese	7439-96-5	E440	8640 mg/kg	95.9	70.0	130	----
QC-2127900-003	RM	Molybdenum	7439-98-7	E440	25.1 mg/kg	96.5	70.0	130	----
QC-2127900-003	RM	Nickel	7440-02-0	E440	1000 mg/kg	96.6	70.0	130	----
QC-2127900-003	RM	Phosphorus	7723-14-0	E440	660 mg/kg	87.7	70.0	130	----
QC-2127900-003	RM	Potassium	7440-09-7	E440	10800 mg/kg	101	70.0	130	----
QC-2127900-003	RM	Selenium	7782-49-2	E440	1.04 mg/kg	92.3	60.0	140	----
QC-2127900-003	RM	Silver	7440-22-4	E440	8.98 mg/kg	86.4	70.0	130	----
QC-2127900-003	RM	Sodium	7440-23-5	E440	1770 mg/kg	112	70.0	130	----
QC-2127900-003	RM	Strontium	7440-24-6	E440	41 mg/kg	92.8	70.0	130	----
QC-2127900-003	RM	Sulfur	7704-34-9	E440	3940 mg/kg	92.8	50.0	150	----
QC-2127900-003	RM	Thallium	7440-28-0	E440	0.907 mg/kg	93.5	70.0	130	----
QC-2127900-003	RM	Tin	7440-31-5	E440	3.79 mg/kg	91.7	40.0	160	----
QC-2127900-003	RM	Titanium	7440-32-6	E440	2790 mg/kg	97.9	70.0	130	----
QC-2127900-003	RM	Tungsten	7440-33-7	E440	6.99 mg/kg	117	70.0	130	----
QC-2127900-003	RM	Uranium	7440-61-1	E440	3.97 mg/kg	86.7	70.0	130	----
QC-2127900-003	RM	Vanadium	7440-62-2	E440	66.2 mg/kg	95.3	70.0	130	----
QC-2127900-003	RM	Zinc	7440-66-6	E440	828 mg/kg	89.9	70.0	130	----
QC-2127900-003	RM	Zirconium	7440-67-7	E440	6.91 mg/kg	# 133	70.0	130	MES
Metals (QCLot: 2127901)									
QC-2127901-003	RM	Mercury	7439-97-6	E510	0.068 mg/kg	92.4	70.0	130	----

Qualifiers

Qualifier

Description

MES Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



**APPENDIX G SUMMARY OF STATISTICAL
RELATIONSHIPS BETWEEN
DUSTFALL METALS AND
SOIL/LICHEN METALS**



Appendix Table G-1. Candidate models describing the soil-metal concentrations in 2025.

Trace Metal	DD ¹	Distance	DD * Distance	pH	DD * pH	AICc ²	ΔAICc ³
Arsenic	√ ²	—	—	√	—	128.37	0
	√	—	—	√	√	129.40	1.03
	√	√	—	—	—	185.04	56.67
	√	√	√	—	—	187.18	58.81
Cadmium	√	—	—	√	√	105.07	0
	√	—	—	√	—	105.77	0.71
	√	√	—	—	—	119.78	14.71
	√	√	√	—	—	121.91	16.85
Copper	√	—	—	√	—	129.82	0
	√	—	—	√	√	132.12	2.30
	√	√	—	—	—	182.42	52.60
	√	√	√	—	—	183.70	53.88
Lead	√	—	—	√	—	98.42	0
	√	—	—	√	√	99.92	1.50
	√	√	—	—	—	141.15	42.73
	√	√	√	—	—	143.43	45.01
Selenium	√	—	—	√	—	-4,261.40	0
	√	—	—	√	√	-4,259.45	1.96
	√	√	—	—	—	0.24	4261.64
	√	√	√	—	—	1.08	4,262.48
Zinc	√	—	—	√	√	137.38	0
	√	—	—	√	—	138.78	1.40
	√	√	√	—	—	170.21	32.84
	√	√	—	—	—	171.09	33.71

¹ DD = Dustfall deposition of corresponding trace metal.

² AICc = Akaike’s Information Criteria.

³ ΔAICc = Difference in AICc between the given model and the lowest AICc.

⁴ Yellow and bold = Best model based on an ΔAIC of two or less and the most parsimonious model.



Appendix Table G-2. Relationships between trace metals in dustfall deposition and soil-metal concentration.

Trace Metal ¹	Slope of Dustfall Metals Versus Soil Metals ⁴		Slope of Soil pH Versus Soil Metals ^{3,4}	
	Estimate	<i>P</i>	Estimate	<i>P</i>
Arsenic (n = 67)	-0.003	0.96	0.55	<0.0001
Cadmium (n = 67)	0.13	0.07	0.19	0.004
Copper (n = 67)	-0.37	<0.0001	0.49	<0.0001
Lead (n = 65)	-0.15	0.0009	0.36	<0.0001
Selenium ²	—	—	—	—
Zinc (n = 66)	1.52	0.15	-1.62	0.13

¹ n = Sample sizes for analysis. Significant relationships are in bold.

² No analyses were conducted on selenium due to many samples being below the detection limit.

³ pH was analyzed as a continuous variable.

⁴ The marginal effect (i.e., slope) of dustfall is provided from the relationship model identified as the best model in Appendix Table G-1.

Appendix Table G-3. Candidate models describing the lichen-metal concentrations in 2025.

Trace Metal	DD ¹	Distance	DD * Distance	AICc ²	ΔAICc ³
Arsenic	√ ²	√	—	119.17	0
	√	√	√	120.07	0.90
Cadmium	√	√	—	131.79	0
	√	√	√	133.82	2.03
Copper	√	√	√	100.45	0
	√	√	—	104.66	4.21
Lead	√	√	√	92.22	0
	√	√	—	97.31	5.09
Selenium	√	√	—	71.92	0
	√	√	√	73.94	2.02
Zinc	√	√	—	62.62	0
	√	√	√	64.72	2.09

¹ DD = Dustfall deposition of corresponding trace metal.

² AICc = Akaike’s Information Criteria.

³ ΔAICc = Difference in AICc between the given model and the lowest AICc.

⁴ Yellow and bold = Best model based on an ΔAIC of two or less and the most parsimonious model.



Appendix Table G-4. Relationships between trace metals in dustfall deposition and lichen-metal concentration.

Trace Metal ¹	Slope of Dustfall Metals Versus Soil Metals ³		Slope of Distance vs Soil Metals ^{2,3}		Interaction with Distance ²	
	Estimate	<i>P</i>	Estimate	<i>P</i>	Estimate	<i>P</i>
Arsenic (n = 72)	-0.15	0.001	-0.0001	<0.0001	—	—
Cadmium (n = 74) ³	-0.04	0.66	2.75E-05	0.15	—	—
Copper (n = 74)	0.23	0.005	-0.0004	0.004	-4.28E-05	0.01
Lead (n = 72)	0.44	<0.0001	-0.0007	0.004	-5.25E-05	0.008
Selenium (n = 74) ³	-0.05	0.57	2.17E-06	0.88	—	—
Zinc (n = 74) ³	0.05	0.53	1.54E-05	0.23	—	—

¹ n = Sample sizes for analysis. Significant and potential relationships/interactions are highlighted in bold.

² Distance was analyzed as a continuous variable, standardized by subtracting the mean and dividing by the standard deviation.

³ If a significant relationship or interaction occurred with distance to the Potential Development Area, then the marginal effect (slope) of dustfall is provided from the relationship model identified as the best model in Appendix Table G-3. The slope from a simple regression model is provided if no significant relationship or interaction occurred with distance to the Potential Development Area.



APPENDIX H REMOTE CAMERA LOCATIONS



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 6	Baffin-1	KM 57	71.4832, -80.213	Helicopter, vehicle, foot	
HOL 16	Baffin-2	KM 95	71.3321, -79.4779	Helicopter, vehicle, foot	



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 1	Baffin-3	KM 4	71.8710, -80.8828	Helicopter, vehicle, foot	<p>A wide-angle photograph showing a rugged, rocky landscape with low hills under a grey, overcast sky. The terrain is covered in sparse, low-lying vegetation and rocks. The photo has a timestamp '2021-07-28 13:00:00' at the top and '11°C' at the top right. A small green logo is visible in the bottom right corner.</p>
HOL 1	Baffin-4	KM 4	71.8710, -80.8828	Helicopter, vehicle, foot	<p>A wide-angle photograph showing an industrial site with several buildings and a large body of water in the background. The foreground is a flat, rocky area with some sparse vegetation. The photo has a timestamp '2021-07-28 13:00:00' at the top and '10°C' at the top right. A small green logo is visible in the bottom right corner.</p>



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 6	Baffin-5	KM 57	71.4832, -80.213	Helicopter, vehicle, foot	
HOL 16	Baffin-6	KM 95	71.3321, -79.4779	Helicopter, vehicle, foot	



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 3	Baffin-7	KM 27	71.7297, -80.4418	Helicopter, vehicle, foot	
HOL 4	Baffin-8	KM 42	71.6073, -80.347	Helicopter, vehicle, foot	



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 10	Baffin-9	KM 85.5	71.3732, -79.6859	Helicopter, vehicle, foot	
HOL 4	Baffin-10	KM 42	71.6073, -80.347	Helicopter, vehicle, foot	



Site Name	Camera Name	Location	Latitude / Longitude	Access	Site Photo
HOL 10	Baffin-11	KM 85.5	71.3732, -79.6859	Helicopter, vehicle, foot	<p>2022-05-23 10:00:00 1 0 -7°C HF2 PRO COVERT RECORD</p>
HOL 3	Baffin-12	KM 27	71.7297, -80.4418	Helicopter, vehicle, foot	<p>2021-07-29 14:00:00 1 10°C HF2 PRO COVERT RECORD</p>