



TruePoint Exploration  
#904 - 409 Granville St.  
Vancouver BC V6C 1T2  
Canada

ATTN: Debbie James

Report No.: A22-13424  
Report Date: 26-Jan-23  
Date Submitted: 19-Sep-22  
Your Reference: CARMACKS COPPER

## CERTIFICATE OF ANALYSIS

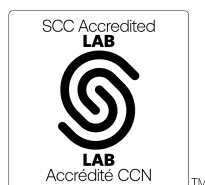
39 Soil samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
7-MIG	7-Mobile Ion Geochemistry	2023-01-11 14:29:52

REPORT A22-13424

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:



LabID: 266

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

A handwritten signature in black ink, reading "Mark Vandergeest".

Mark Vandergeest  
Quality Control Coordinator

## Results

## Activation Laboratories Ltd.

## Report: A22-13424

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839331	11.8	49.3	20.4	0.08	742	0.44	0.2	52	335	6.53	17.2	18.3	60	2.23	1030	3.31	2.05	0.99	39	6.8	4.07	1.24	1.86
3839332	7.2	99.6	31.0	0.63	1370	1.72	0.2	82	316	2.49	109	21.3	110	4.13	2050	10.4	5.29	3.45	73	11.0	13.2	1.55	3.92
3839333	18.2	85.2	27.9	0.61	1300	1.51	0.2	90	339	3.20	61.9	18.6	95	3.37	3730	16.9	8.94	5.21	64	11.3	21.0	1.88	2.69
3839334	49.9	47.3	18.5	1.93	868	1.39	< 0.1	85	330	8.45	205	13.8	57	1.97	25100	66.0	34.5	18.2	46	12.1	83.7	2.26	1.89
3839335	7.8	135	31.1	1.25	1940	2.26	0.2	50	290	2.43	231	25.1	188	4.96	4480	35.4	17.3	10.3	109	18.8	43.9	3.04	5.09
3839336	2.9	136	31.9	0.34	1920	2.02	0.3	63	271	2.62	273	48.9	160	4.55	1330	31.5	15.4	9.78	97	17.7	41.0	4.06	4.27
3839337	2.3	178	38.6	0.08	1600	1.89	0.3	56	297	2.78	185	68.7	179	5.13	932	18.2	9.12	5.63	125	19.8	23.9	3.77	4.07
3839338	4.9	166	49.8	0.12	1900	3.32	0.4	92	281	1.35	175	36.5	228	6.99	711	19.4	9.58	5.28	130	19.2	24.3	4.17	4.40
3839339	5.6	201	45.9	0.09	1770	3.50	0.6	99	288	1.15	206	81.9	242	7.51	1080	16.4	7.58	4.42	146	22.7	21.7	4.71	4.56
3839340	7.0	138	45.2	0.11	1370	2.83	0.4	120	285	1.00	89.4	43.7	173	5.33	653	12.7	6.36	3.39	102	14.7	14.8	3.65	3.16
3839341	10.1	272	54.2	0.11	2100	3.82	0.5	112	319	1.43	217	49.7	321	8.04	2240	38.7	18.9	11.3	171	32.2	51.3	6.21	4.98
3839342	5.2	225	67.4	0.12	2010	3.79	0.6	74	285	0.90	125	45.3	273	8.06	886	11.1	5.64	3.30	158	22.4	14.7	3.61	3.47
3839343	5.9	227	57.0	0.17	1970	3.93	0.4	53	290	1.09	169	36.0	322	7.36	745	20.5	10.1	5.03	152	23.4	24.7	4.80	4.19
3839344	9.3	109	36.2	< 0.05	1230	1.65	0.3	91	241	2.85	113	156	128	3.74	650	16.3	8.70	3.87	79	13.5	18.3	2.20	2.93
3839345	6.7	147	32.1	0.08	1350	2.20	0.2	58	285	1.42	73.0	26.5	210	5.44	1020	7.39	3.87	2.05	105	15.4	9.62	3.12	3.87
3839346	7.8	29.6	26.2	0.09	546	1.03	0.3	91	322	12.8	76.9	40.8	19	0.27	1920	8.94	4.22	2.15	28	4.4	9.80	1.03	0.49
3839347	7.1	25.4	28.6	0.13	990	0.88	0.3	111	368	41.5	63.2	143	27	0.55	2640	13.6	7.30	3.39	34	3.5	15.3	0.75	0.60
3839348	25.0	14.2	42.3	0.08	325	1.23	0.7	64	299	41.8	93.4	224	11	0.10	3600	19.0	11.2	4.17	60	3.2	20.8	1.00	0.54
3839349	2.5	21.2	19.8	0.11	363	3.14	0.3	48	198	8.48	170	251	23	0.23	1190	28.3	16.0	6.70	58	3.7	31.1	1.54	1.13
3839350	3.7	14.9	12.3	0.06	215	0.45	< 0.1	51	216	8.24	31.1	47.7	12	0.24	754	4.67	2.74	1.24	19	1.8	5.46	0.80	0.37
3839353	37.7	58.2	16.7	0.62	997	1.66	< 0.1	73	293	9.35	156	14.2	67	2.57	2720	25.2	11.9	8.66	38	10.3	34.0	1.89	2.33
3839354	3.3	139	32.4	0.06	1340	1.88	0.3	87	310	1.44	48.4	33.7	183	7.75	480	4.68	2.13	1.66	97	16.2	6.44	2.53	2.94
3839355	3.8	158	39.1	< 0.05	1510	1.79	0.4	57	300	1.10	29.4	40.6	181	8.30	396	3.16	1.71	1.15	111	14.2	4.39	2.60	2.74
3839356	5.1	27.0	11.6	0.07	295	2.12	0.2	52	279	1.69	180	124	17	0.08	767	40.7	21.4	8.73	47	5.7	42.0	1.00	0.74
3839357	10.9	43.2	18.0	0.12	385	5.42	0.3	60	277	5.65	377	130	26	0.48	1580	87.4	46.3	19.9	98	10.6	94.3	2.52	1.25
3839358	8.0	29.3	22.2	0.29	540	2.75	0.3	75	352	5.99	289	86.2	38	0.67	1470	56.8	28.8	13.6	45	6.8	63.4	1.77	1.60
3839359	7.5	32.1	29.3	0.27	586	5.24	0.5	71	318	17.3	387	355	42	0.80	2670	88.4	46.9	20.5	82	11.5	98.9	2.35	2.19
3839360	13.7	28.8	15.7	0.43	645	1.91	0.2	79	349	18.8	215	71.6	34	0.83	2770	41.3	21.7	9.98	42	5.9	47.2	2.09	1.47
3839361	9.8	38.9	30.4	0.44	633	1.64	0.3	121	301	19.9	216	55.9	62	1.31	4850	41.5	22.7	11.4	46	9.0	50.7	2.13	1.99
1333948	15.2	19.6	17.0	0.24	420	0.78	0.1	85	367	14.2	98.3	19.9	21	0.41	1510	20.8	11.6	4.83	25	3.2	24.0	1.42	0.84
1333949	10.6	14.5	19.0	0.20	417	0.77	0.1	118	392	9.69	67.2	50.9	14	0.08	1390	11.5	5.92	2.62	20	1.6	13.4	0.08	0.74
1333950	6.4	22.8	10.8	0.10	300	0.20	< 0.1	50	303	4.28	16.8	29.4	5	0.13	1560	2.27	1.23	0.67	8	1.6	2.86	0.14	0.31
1333951	12.2	31.2	22.0	0.36	610	0.77	0.1	114	391	13.1	63.9	42.6	34	0.63	2780	9.90	5.37	2.47	26	3.0	12.1	< 0.05	1.22
1333952	16.3	50.3	33.3	0.58	881	1.85	0.2	92	353	13.2	170	43.6	104	2.32	3440	27.6	14.8	7.83	59	8.9	35.9	1.98	3.51
1333953	7.0	65.8	30.3	0.21	921	1.87	0.3	99	315	2.20	134	21.9	80	2.39	890	21.3	10.3	6.30	55	9.9	27.9	1.94	2.86
1333954	4.2	123	27.2	0.12	1290	1.98	0.2	83	324	1.01	89.4	21.7	151	4.09	565	8.85	4.09	2.79	79	12.7	11.4	1.98	3.98
1333955	3.2	113	27.4	0.07	904	0.99	0.2	47	291	1.65	32.3	22.8	131	3.96	461	3.89	2.25	1.22	74	12.4	5.33	2.21	2.69
1333957	1.3	84.9	24.0	0.09	1090	1.03	0.1	43	266	1.33	43.6	22.7	97	2.70	681	6.03	3.09	1.87	54	10.3	7.77	1.88	2.46
1333962	11.3	89.2	37.5	0.26	1170	1.72	0.2	217	349	2.81	65.2	54.1	109	3.62	1470	14.1	8.02	3.64	64	10.4	16.8	2.34	2.84

## Results

## Activation Laboratories Ltd.

## Report: A22-13424

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839331	0.44	0.70	53	< 0.1	7	15.0	22.8	0.31	28	1530	4	2.7	18.9	104	11.9	< 0.5	4.17	< 0.5	36.2	< 0.01	< 0.05	2.8	13.8
3839332	0.95	1.92	73	0.1	13	51.8	31.8	0.64	36	926	5	3.5	59.4	157	32.8	< 0.5	14.2	< 0.5	60.2	0.01	< 0.05	1.8	37.0
3839333	0.86	3.24	66	< 0.1	12	80.4	37.4	1.17	33	820	6	3.0	90.9	184	13.9	< 0.5	20.8	< 0.5	56.6	< 0.01	< 0.05	2.3	27.1
3839334	2.87	13.3	133	< 0.1	9	190	28.6	3.96	22	1450	5	1.6	303	487	15.0	< 0.5	66.6	< 0.5	41.3	0.03	< 0.05	6.7	20.9
3839335	0.83	6.68	80	0.2	22	172	45.4	2.07	49	972	5	4.1	192	209	23.7	< 0.5	45.4	< 0.5	87.0	0.01	< 0.05	1.6	67.1
3839336	0.62	6.12	70	0.2	18	156	40.6	1.72	43	1150	4	4.6	180	183	58.8	< 0.5	42.0	< 0.5	64.7	< 0.01	< 0.05	1.9	49.9
3839337	0.42	3.37	67	0.1	22	102	45.4	1.22	51	2800	11	6.3	116	180	99.8	< 0.5	28.2	< 0.5	75.1	< 0.01	< 0.05	2.4	55.0
3839338	0.36	3.56	75	0.1	27	82.5	66.4	1.16	46	1870	6	5.4	106	171	22.8	< 0.5	24.7	< 0.5	102	< 0.01	< 0.05	2.5	50.3
3839339	1.12	3.05	75	0.2	22	76.9	70.8	0.81	52	5110	9	6.7	91.5	211	41.9	< 0.5	21.9	< 0.5	118	< 0.01	< 0.05	2.2	49.6
3839340	0.75	2.41	116	0.2	19	52.4	54.6	0.74	47	1820	7	4.6	63.6	202	30.4	< 0.5	14.9	< 0.5	91.6	< 0.01	< 0.05	2.9	32.2
3839341	1.05	7.37	116	0.3	29	183	106	1.96	54	1470	11	6.7	219	281	44.5	< 0.5	52.5	< 0.5	139	< 0.01	< 0.05	3.1	62.4
3839342	0.86	2.08	102	0.2	30	56.0	73.1	0.70	51	838	15	6.5	64.7	241	36.5	< 0.5	15.5	< 0.5	130	< 0.01	< 0.05	2.9	43.5
3839343	0.85	3.93	98	0.1	21	71.1	77.8	1.19	52	1090	8	5.2	90.3	280	33.2	< 0.5	22.2	< 0.5	118	< 0.01	< 0.05	2.8	59.8
3839344	0.85	3.11	95	< 0.1	20	43.7	38.7	1.09	30	11900	7	3.3	65.8	176	67.4	< 0.5	15.0	< 0.5	68.1	< 0.01	< 0.05	1.8	39.3
3839345	0.49	1.45	56	0.1	23	34.8	43.8	0.54	56	1620	18	3.9	41.5	181	19.5	< 0.5	10.0	< 0.5	78.6	< 0.01	< 0.05	1.9	48.4
3839346	0.14	1.64	31	< 0.1	12	26.6	8.8	0.49	45	1060	112	1.0	37.8	106	62.2	< 0.5	9.10	< 0.5	9.5	0.09	< 0.05	9.8	8.2
3839347	0.33	2.72	28	< 0.1	16	27.0	11.7	0.84	42	58100	105	1.0	48.9	138	66.2	< 0.5	10.9	< 0.5	35.2	0.13	< 0.05	8.0	10.3
3839348	0.11	3.87	30	< 0.1	12	41.3	6.6	1.31	25	10700	46	0.7	64.7	85.3	162	< 0.5	14.9	< 0.5	21.7	0.02	< 0.05	6.7	14.0
3839349	0.19	5.58	41	< 0.1	7	78.6	6.7	1.98	11	51700	8	0.8	109	127	82.4	< 0.5	26.0	< 0.5	44.2	0.03	< 0.05	3.4	20.1
3839350	0.20	0.93	40	< 0.1	< 5	16.5	3.9	0.35	15	4410	11	0.4	20.3	60.6	23.8	< 0.5	4.99	< 0.5	20.4	0.02	< 0.05	1.3	6.2
3839353	0.76	4.78	63	< 0.1	11	147	28.0	1.37	29	510	3	1.5	160	238	9.7	< 0.5	38.9	< 0.5	53.0	0.02	< 0.05	1.5	30.8
3839354	0.27	0.86	74	0.1	23	27.5	64.2	0.23	48	1360	10	5.1	29.3	107	38.8	< 0.5	7.32	< 0.5	113	< 0.01	< 0.05	1.5	30.9
3839355	0.29	0.64	53	0.1	20	15.8	78.1	0.25	41	1350	9	4.5	18.1	133	34.2	< 0.5	4.56	< 0.5	122	< 0.01	< 0.05	1.6	36.1
3839356	0.45	7.77	25	< 0.1	< 5	60.1	3.9	2.27	17	4300	4	0.6	128	127	169	< 0.5	28.4	< 0.5	8.8	0.01	< 0.05	3.7	22.2
3839357	0.34	17.2	65	0.1	< 5	125	8.0	5.07	17	1420	5	1.0	286	274	230	< 0.5	62.2	< 0.5	22.2	0.03	< 0.05	8.1	35.6
3839358	0.46	11.1	50	< 0.1	< 5	108	8.9	3.15	16	6910	5	1.2	208	228	95.1	< 0.5	45.5	< 0.5	44.8	0.02	< 0.05	8.7	28.6
3839359	0.50	17.7	64	< 0.1	6	146	14.3	5.55	15	30800	7	1.4	306	266	153	< 0.5	66.6	< 0.5	41.9	0.04	< 0.05	12.4	38.5
3839360	0.57	8.08	76	< 0.1	5	88.4	11.5	2.52	24	8680	7	0.9	151	331	58.8	< 0.5	34.9	< 0.5	37.3	0.01	< 0.05	9.8	23.3
3839361	0.44	8.26	116	< 0.1	16	144	19.5	2.69	25	12000	8	1.6	194	239	40.0	< 0.5	44.5	< 0.5	25.2	0.02	< 0.05	4.1	27.6
1333948	0.32	4.09	42	< 0.1	< 5	53.8	7.0	1.25	20	3710	8	0.8	79.2	194	25.0	< 0.5	18.8	< 0.5	25.4	0.04	< 0.05	10.1	11.0
1333949	0.24	2.16	85	< 0.1	< 5	27.8	2.0	0.69	23	13800	17	0.7	46.1	192	22.3	< 0.5	10.5	< 0.5	10.7	< 0.01	< 0.05	6.3	8.5
1333950	0.51	0.49	37	< 0.1	6	8.60	1.5	0.17	17	19400	15	0.5	11.0	134	9.2	< 0.5	2.56	< 0.5	11.5	< 0.01	< 0.05	6.4	2.7
1333951	0.49	1.93	55	< 0.1	9	31.3	9.1	0.69	29	6580	15	1.1	43.5	512	10.4	< 0.5	9.96	< 0.5	22.8	0.01	< 0.05	9.2	9.0
1333952	1.06	5.71	46	< 0.1	13	96.9	30.7	1.94	34	1720	9	2.0	134	724	12.9	< 0.5	29.9	< 0.5	59.0	< 0.01	< 0.05	7.1	27.5
1333953	0.61	3.97	77	< 0.1	8	93.4	29.6	1.06	28	1040	5	2.3	120	203	18.2	< 0.5	28.8	< 0.5	44.0	< 0.01	< 0.05	1.7	21.0
1333954	0.39	1.66	59	< 0.1	12	43.0	37.9	0.57	40	915	5	3.2	50.6	154	18.8	< 0.5	12.2	< 0.5	60.4	< 0.01	< 0.05	1.7	36.9
1333955	0.26	0.78	42	< 0.1	14	21.2	39.7	0.32	39	529	7	3.4	25.3	94.5	19.8	< 0.5	5.97	< 0.5	63.6	< 0.01	< 0.05	1.6	30.4
1333957	0.48	1.15	39	< 0.1	11	32.2	26.9	0.42	35	485	4	2.6	35.1	106	15.4	< 0.5	8.63	< 0.5	45.8	< 0.01	< 0.05	1.0	22.1
1333962	1.47	2.87	205	< 0.1	17	46.1	47.7	1.09	41	9960	6	3.5	63.3	231	10.0	< 0.5	14.0	< 0.5	60.2	0.03	< 0.05	4.7	25.8

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839331	2	3.63	703	0.17	0.59	< 1	4.69	0.3	0.28	3.87	132	0.78	20.0	1.86	82	69.4
3839332	8	12.3	791	0.27	1.91	1	23.4	0.5	0.74	7.94	161	2.02	48.4	4.45	132	138
3839333	5	19.9	787	0.19	2.93	1	10.3	0.5	1.22	12.1	161	1.72	94.5	7.30	123	106
3839334	13	71.5	484	0.14	11.2	< 1	8.13	0.2	4.32	13.5	95	1.67	458	25.1	68	77.0
3839335	10	40.9	828	0.28	6.24	< 1	33.3	0.7	2.32	13.1	223	2.22	188	13.5	209	184
3839336	5	40.1	716	0.30	5.62	1	31.9	0.5	2.01	12.0	199	1.37	164	11.4	151	156
3839337	6	23.0	889	0.38	3.20	1	21.8	0.6	1.33	10.2	261	1.34	96.9	7.24	188	153
3839338	10	23.2	791	0.39	3.44	1	26.4	0.8	1.30	16.8	267	1.63	87.9	7.54	199	165
3839339	5	19.8	791	0.50	2.86	< 1	20.7	0.8	0.98	13.1	318	1.70	79.8	5.68	254	168
3839340	6	13.9	712	0.34	2.22	< 1	15.2	0.6	0.91	11.0	230	1.68	64.7	4.86	150	120
3839341	10	48.6	903	0.52	6.96	< 1	21.2	1.0	2.36	25.9	367	1.87	198	12.9	209	185
3839342	7	14.0	767	0.44	1.97	1	18.4	0.9	0.80	14.7	358	2.31	61.0	4.47	202	141
3839343	6	21.1	725	0.38	3.57	< 1	19.1	0.8	1.30	19.1	327	1.56	105	8.13	197	141
3839344	4	15.7	631	0.22	2.85	< 1	18.3	0.4	1.13	16.0	154	0.98	88.8	6.65	135	113
3839345	4	9.26	863	0.30	1.27	< 1	18.7	0.6	0.55	10.2	212	1.00	39.3	3.22	150	143
3839346	8	8.44	1400	0.04	1.53	< 1	3.26	< 0.2	0.59	15.0	186	1.15	49.7	3.43	57	17.1
3839347	6	11.8	1820	0.05	2.33	< 1	3.50	< 0.2	0.94	11.6	146	1.40	91.6	5.80	133	24.8
3839348	3	16.2	725	0.03	3.09	< 1	4.34	< 0.2	1.48	11.2	401	1.17	132	8.80	996	21.6
3839349	6	26.2	385	0.04	4.70	2	10.5	< 0.2	2.13	21.7	81	0.49	182	13.2	230	39.1
3839350	3	4.38	284	0.03	0.80	< 1	2.37	< 0.2	0.39	6.93	45	0.49	29.9	2.22	144	14.1
3839353	5	33.8	480	0.12	4.56	< 1	13.5	0.4	1.53	12.5	96	0.58	131	8.48	102	74.3
3839354	< 1	6.58	591	0.38	0.79	< 1	12.6	0.7	0.31	6.71	231	1.32	20.1	1.85	198	108
3839355	2	3.94	574	0.35	0.61	< 1	11.3	0.9	0.26	4.47	213	0.87	16.3	1.73	191	89.4
3839356	4	33.2	426	0.04	6.67	< 1	9.30	< 0.2	2.75	8.49	25	< 0.01	219	15.6	31	28.9
3839357	10	76.7	530	0.08	14.7	< 1	13.2	< 0.2	6.11	18.9	58	0.20	526	34.1	55	44.7
3839358	4	52.6	598	0.08	10.1	1	14.8	0.2	3.79	22.9	55	0.13	332	20.7	68	62.4
3839359	15	81.0	642	0.09	15.5	3	18.2	0.2	6.26	29.5	93	0.89	544	35.9	102	78.9
3839360	6	38.7	631	0.06	7.16	1	9.81	0.2	2.86	17.8	63	0.54	262	16.3	105	57.0
3839361	10	44.3	421	0.10	7.26	< 1	17.1	0.3	3.01	15.3	225	1.26	275	17.1	184	81.0
1333948	8	20.4	719	0.05	3.67	< 1	5.48	< 0.2	1.47	9.75	50	0.63	137	9.21	33	33.0
1333949	7	11.5	889	0.03	2.08	< 1	3.67	< 0.2	0.73	10.5	53	0.74	65.6	4.68	60	34.5
1333950	5	2.48	503	0.02	0.40	< 1	0.92	< 0.2	0.21	2.56	74	0.68	15.3	1.09	23	13.2
1333951	10	10.2	798	0.07	1.74	< 1	5.57	< 0.2	0.68	21.7	88	1.30	58.5	4.19	71	49.3
1333952	14	31.2	638	0.15	4.91	1	15.7	0.4	1.98	13.6	137	0.97	180	11.9	79	152
1333953	5	25.8	575	0.16	4.08	1	14.6	0.3	1.30	11.1	129	1.06	103	7.29	80	104
1333954	5	11.0	683	0.23	1.60	< 1	16.6	0.5	0.56	9.32	158	1.00	38.7	3.20	114	130
1333955	4	5.43	666	0.25	0.70	< 1	9.01	0.5	0.29	3.86	184	0.82	21.4	1.90	113	99.7
1333957	< 1	7.66	617	0.19	1.08	< 1	10.0	0.4	0.41	4.87	129	0.41	26.4	2.54	77	92.8
1333962	8	14.7	953	0.26	2.51	< 1	11.2	0.4	1.05	15.9	165	1.04	89.1	6.73	120	132

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas			61.7	0.24	635	22.7		1380			1200	56.1	68	16.6	2700		44.8	26.4	56				6.05
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			62.7	0.25	631	21.9		1380			1200	57.0	63	15.3	2820		45.1	26.0	55				5.57
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			58.7	0.23	626	20.2		1280			1110	52.9	63	15.6	2580		40.7	23.9	53				5.80
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			59.0	0.24	598	21.8		1370			1180	59.0	59	13.7	2780		43.3	26.3	53				5.82
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			65.3	0.23	617	22.1		1310			1310	59.4	66	17.8	2740		45.8	28.4	63				5.74
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			70.2	0.24	616	21.2		1350			1190	61.6	73	17.6	2690		42.2	26.1	67				6.11
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			66.7	0.22	650	21.7		1230			1200	56.9	70	18.6	2440		40.5	24.7	60				5.66
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
Method Blank	0.4	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	0.3	< 0.5	< 0.5	< 0.05	2	< 0.07	< 0.1	< 5	< 5	0.13	0.14	0.3	< 2	< 0.01	1.0	0.02	0.02	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas	1.71					633	20.4	4.56		18600	81	10.6	576	65.0	1140				295			2.1	68.1
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.29					624	18.2	4.53		18900	82	9.9	581	67.9	1120				300			2.1	75.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.56					589	17.8	4.15		18100	81	9.7	526	59.7	1020				299			2.1	64.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.44					614	14.4	4.49		19700	83	9.3	578	64.3	1090				298			1.9	68.6
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.23					669	20.6	4.50		19300	74	10.0	599	73.3	1170				348			2.3	72.6
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.30					602	24.4	4.43		18700	80	11.3	545	75.2	1120				348			2.0	70.6
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.85					657	23.6	4.28		16300	74	10.5	550	82.4	1020				353			2.5	67.6
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	0.7	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	0.01	< 1	< 0.1	< 5	0.07	0.3	< 0.01	< 2	1.0	< 2	< 0.2	0.03	1.4	1.0	< 0.5	0.02	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas		120	189	0.79	18.5		90.4			105	82	23.9	495	32.4	605	160
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		121	193	0.75	18.8		90.5			105	78	23.7	506	33.0	620	156
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		112	195	0.79	16.3		82.8			96.1	76	24.2	456	30.0	583	146
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		122	195	0.68	18.1		89.6			102	70	23.0	502	31.0	633	150
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		135	194	0.71	18.8		91.9			109	89	20.4	534	33.8	615	162
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		125	195	0.91	17.9		90.0			104	95	20.7	507	31.1	642	163
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		118	200	0.81	16.7		81.1			94.5	93	20.7	466	29.6	696	158
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	0.06	< 1	< 0.01	< 0.02	< 0.02	< 2	0.7
Method Blank	3	< 0.03	0.5	< 0.01	< 0.01	< 1	0.09	0.2	< 0.01	0.04	< 1	< 0.01	0.12	< 0.02	< 2	1.0