



Certificate of Analysis
Work Order : VC162161
[Report File No.: 0000018029]

Date: July 19, 2016

To: Gordon Richards
GORDON RICHARDS
6410 HOLLY PARK DR
DELTA BC V4K 4W6

P.O. No.: DUBLOON_D120-T75
Project No.: -
Samples: 84
Received: Jul 7, 2016
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
84	G_LOG02	Pre-preparation processing, sorting, logging, boxing
84	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Certified By : _____

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
D120	9.3	58	10	0.4	11400	<0.5	318	4
D121	4.3	231	60	0.1	5460	1.7	95	4
D122	18.6	132	<10	0.4	11400	<0.5	341	12
D123	13.2	46	<10	0.3	13400	<0.5	551	8
D124	7.0	139	<10	0.2	11400	0.7	200	5
D125	11.9	141	<10	0.5	7500	0.5	187	<1
D126	2.3	268	20	<0.1	6400	0.7	69	<1
D127	12.4	132	<10	0.2	8730	<0.5	247	9
D129	2.5	169	40	<0.1	9210	<0.5	178	8
D130	6.2	212	50	<0.1	6940	0.7	75	2
D139	5.6	45	<10	0.1	9840	<0.5	460	<1
D140	16.5	97	10	<0.1	9230	<0.5	195	<1
D152	15.0	44	<10	0.3	21300	<0.5	639	1
D153	20.0	110	<10	0.4	13800	<0.5	345	1
D154	20.8	113	30	0.2	18700	<0.5	300	2
T1	7.4	30	<10	0.4	5110	<0.5	604	3
T2	11.4	52	<10	0.4	5040	<0.5	658	10
T3	32.7	10	<10	0.4	1390	<0.5	840	3
T4	69.8	5	<10	0.5	6640	<0.5	829	32
T5	59.9	70	<10	0.6	19600	<0.5	570	2
T6	53.0	20	<10	0.8	16600	<0.5	937	<1
T7	7.1	62	10	0.1	12500	<0.5	430	1
T8	18.3	83	<10	0.4	6750	<0.5	580	<1
T9	32.7	43	<10	0.6	11200	<0.5	664	14
T10	29.3	89	<10	0.1	14400	<0.5	792	3
T11	110	162	30	0.2	9650	0.6	205	4
T12	33.9	173	60	<0.1	7200	3.1	156	6
T13	83.9	14	<10	0.1	10600	<0.5	450	5
T14	135	13	<10	0.2	11000	<0.5	702	2
T15	50.5	14	10	<0.1	10000	<0.5	635	12
T16	19.4	105	30	0.3	7280	<0.5	328	2
T17	82.3	196	30	1.2	8130	20.0	168	40
T18	45.4	221	30	0.4	7260	2.6	144	18
T19	46.5	119	20	0.1	11900	0.8	419	59
T20	15.2	14	<10	0.5	17700	<0.5	805	1
T21	13.5	25	<10	0.7	17400	<0.5	764	1
T22	30.4	26	<10	0.5	12100	<0.5	664	19
T23	18.4	94	30	0.1	3990	<0.5	318	4
T24	22.5	60	<10	0.4	12800	<0.5	565	21
T25	32.0	28	<10	0.4	14700	<0.5	596	20

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
T26	10.6	59	<10	<0.1	11600	<0.5	418	1
T27	8.8	240	<10	<0.1	20300	<0.5	582	3
T28	18.9	175	<10	<0.1	8820	<0.5	359	5
T29	16.8	59	<10	0.2	5220	<0.5	451	2
T30	36.5	115	<10	<0.1	12100	<0.5	486	5
T31	112	42	<10	<0.1	9670	1.0	334	18
T32	57.3	26	<10	0.6	11400	<0.5	551	5
T33	14.1	11	<10	1.2	13900	<0.5	769	<1
T34	9.2	71	<10	0.2	17800	<0.5	402	1
T35	10.6	33	10	0.2	15700	<0.5	626	<1
T36	16.4	44	<10	0.2	9940	<0.5	600	26
T37	5.4	60	<10	<0.1	12900	<0.5	345	<1
T38	16.7	58	<10	0.2	19700	<0.5	435	3
T39	3.3	73	<10	0.6	14800	<0.5	861	1
T40	8.9	35	<10	<0.1	4990	<0.5	722	1
T41	6.4	63	<10	0.3	15900	<0.5	595	2
T42	18.6	23	<10	1.3	14400	<0.5	564	2
T44	24.3	32	<10	0.5	10600	<0.5	591	23
T49	39.0	50	<10	0.4	19600	<0.5	719	6
T50	8.8	87	<10	0.3	11400	<0.5	201	<1
T51	16.4	126	10	0.1	16100	<0.5	350	2
T52	11.8	118	<10	<0.1	7900	<0.5	429	1
T53	15.8	48	<10	0.1	11400	<0.5	597	<1
T54	24.2	16	<10	0.5	15800	<0.5	627	11
T55	25.3	14	<10	0.5	16000	<0.5	812	8
T56	8.1	130	20	0.2	11900	0.7	272	<1
T57	12.0	100	<10	0.5	17700	<0.5	378	2
T58	30.9	64	<10	0.6	21400	<0.5	513	3
T59	23.8	56	<10	0.2	20400	<0.5	670	4
T60	12.8	31	<10	0.2	20400	<0.5	855	10
T61	18.3	28	<10	0.7	18200	<0.5	678	7
T62	10.5	59	20	0.3	5220	0.7	336	9
T63	31.6	31	<10	0.9	19300	<0.5	634	4
T65	59.7	29	<10	0.7	3840	<0.5	726	4
T66	19.9	135	50	0.1	6180	0.6	122	5
T67	57.2	15	<10	0.6	4010	<0.5	729	65
T68	24.0	29	<10	0.3	13800	<0.5	688	26
T69	62.5	11	<10	0.4	6590	<0.5	931	7
T70	24.3	57	<10	0.4	12900	<0.5	492	16
T71	33.3	23	<10	0.6	5060	<0.5	641	12

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	10	0.1	10	0.5	2	1
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb
T72	23.4	39	<10	0.3	1380	<0.5	682	17
T73	27.5	36	<10	0.4	11600	<0.5	591	16
T74	16.1	52	<10	0.4	10700	<0.5	645	7
T75	9.5	109	<10	0.3	22100	<0.5	325	<1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
D120	1060	55	<100	0.3	830	69.9	36.6	21.1
D121	601	111	100	3.1	340	44.7	22.2	12.1
D122	1810	59	<100	0.2	770	144	76.7	35.8
D123	1380	436	<100	0.3	1810	94.7	57.3	28.5
D124	5930	117	<100	0.3	230	70.9	31.6	27.1
D125	2260	36	<100	0.8	410	190	95.4	48.8
D126	2170	30	<100	2.4	110	84.0	38.4	19.2
D127	1150	158	<100	0.8	1090	149	82.5	34.9
D129	416	100	<100	0.7	110	32.6	16.4	9.5
D130	391	75	<100	1.2	130	30.4	15.2	8.1
D139	556	32	<100	<0.2	280	58.9	33.6	13.3
D140	818	29	<100	0.5	220	48.3	23.2	14.7
D152	112	76	<100	<0.2	410	11.3	4.7	2.6
D153	1040	213	<100	<0.2	350	307	182	63.9
D154	466	43	<100	0.5	210	39.4	16.2	11.9
T1	49	7	<100	<0.2	310	7.7	3.5	2.4
T2	505	180	<100	<0.2	2830	72.8	41.8	17.7
T3	130	80	<100	<0.2	3180	20.5	10.0	5.3
T4	20	89	<100	<0.2	2840	9.5	6.4	1.7
T5	1650	124	<100	<0.2	970	144	65.9	45.9
T6	279	56	<100	<0.2	1750	75.7	40.8	18.4
T7	128	76	<100	0.2	190	8.1	3.8	2.7
T8	140	92	<100	<0.2	550	21.2	13.0	4.7
T9	511	455	<100	<0.2	3160	128	83.2	25.2
T10	65	163	<100	<0.2	140	7.2	3.7	2.2
T11	432	106	<100	0.3	560	48.7	23.5	13.0
T12	214	106	<100	0.6	150	9.1	4.1	2.9
T13	52	76	<100	<0.2	250	2.6	1.0	1.1
T14	77	329	<100	<0.2	500	13.5	4.8	2.7
T15	17	52	<100	<0.2	220	3.2	1.6	1.0
T16	58	207	<100	0.5	240	6.4	3.0	2.0
T17	121	138	<100	0.9	150	11.1	5.6	2.4
T18	488	136	<100	2.9	370	70.3	34.0	13.6
T19	267	93	<100	0.8	350	28.6	15.9	8.8
T20	136	51	<100	<0.2	960	29.1	15.7	7.9
T21	677	74	<100	<0.2	1220	182	99.4	45.9
T22	303	54	<100	<0.2	2570	38.7	19.5	10.9
T23	96	20	<100	1.8	450	8.1	3.7	2.5
T24	406	106	<100	<0.2	2310	54.0	31.6	14.1
T25	480	186	<100	<0.2	2170	29.8	16.0	10.7

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T26	140	34	<100	<0.2	160	4.4	2.5	1.6
T27	579	409	<100	<0.2	130	30.7	17.5	7.6
T28	183	97	<100	0.6	130	10.5	5.5	2.8
T29	49	29	<100	0.2	230	4.6	2.0	1.4
T30	114	182	<100	0.7	190	10.3	6.2	2.3
T31	71	62	<100	0.3	250	5.8	2.6	2.0
T32	57	214	<100	<0.2	780	15.0	6.9	2.9
T33	193	98	<100	<0.2	1060	138	70.9	22.4
T34	178	62	<100	0.2	520	25.2	12.9	5.3
T35	35	58	<100	<0.2	340	5.5	3.1	1.9
T36	242	28	<100	<0.2	1910	32.5	18.6	8.3
T37	84	55	<100	0.4	210	10.5	5.5	3.1
T38	107	63	<100	<0.2	210	16.0	7.7	3.6
T39	1380	158	<100	<0.2	340	201	108	47.7
T40	142	13	<100	<0.2	160	4.5	2.4	1.2
T41	2490	150	<100	<0.2	130	44.8	18.9	10.9
T42	270	158	<100	<0.2	1230	73.6	37.5	20.3
T44	551	372	<100	<0.2	2730	48.4	28.5	12.9
T49	766	239	<100	<0.2	630	77.1	42.5	21.0
T50	198	126	<100	0.8	450	18.3	8.3	5.8
T51	117	251	<100	0.6	180	10.0	4.6	3.1
T52	258	116	<100	<0.2	290	29.6	14.0	7.5
T53	1530	106	<100	<0.2	680	71.8	36.0	12.7
T54	185	114	<100	<0.2	3240	34.8	18.5	9.6
T55	230	166	<100	<0.2	3530	28.4	13.7	8.2
T56	145	102	<100	0.7	280	17.6	10.2	5.0
T57	138	115	<100	0.3	270	14.5	6.9	4.6
T58	320	123	<100	<0.2	750	30.4	12.5	9.1
T59	217	29	<100	<0.2	1160	52.4	30.6	12.5
T60	122	142	<100	<0.2	1510	25.8	14.9	6.9
T61	228	129	<100	<0.2	2510	35.0	20.4	10.3
T62	393	238	<100	1.0	710	25.7	13.8	7.2
T63	406	38	<100	<0.2	1970	62.0	32.5	15.2
T65	643	244	<100	<0.2	1940	52.4	25.7	14.5
T66	193	108	<100	1.1	250	10.4	4.6	2.5
T67	94	52	<100	0.4	5410	24.0	13.3	5.8
T68	962	56	<100	0.2	1790	66.2	33.9	16.6
T69	216	22	<100	<0.2	1040	60.2	29.1	12.0
T70	786	266	<100	0.3	1470	73.4	42.2	17.6
T71	143	104	<100	<0.2	1370	15.9	8.7	4.4

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Element	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	2	1	100	0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
T72	1710	87	<100	0.3	1700	67.1	37.3	21.1
T73	853	20	<100	<0.2	1290	45.4	21.5	12.9
T74	793	83	<100	<0.2	1570	34.8	18.7	9.7
T75	1630	198	<100	<0.2	870	341	212	76.7

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
D120	75	3.4	100	<1	<0.1	4.1	505	2
D121	195	22.7	55.7	<1	0.2	25.3	312	12
D122	100	2.1	176	<1	<0.1	4.4	900	4
D123	46	0.6	140	<1	<0.1	10.9	582	18
D124	70	2.3	120	<1	0.1	7.5	4850	1
D125	70	7.4	248	<1	0.2	14.1	1630	1
D126	128	16.3	112	<1	0.2	11.3	1970	5
D127	146	2.9	172	<1	0.1	3.5	530	3
D129	97	11.6	42.9	<1	0.1	11.0	182	3
D130	75	17.8	37.2	<1	0.1	16.4	210	3
D139	22	1.2	87.7	<1	<0.1	30.0	410	2
D140	66	7.2	76.9	<1	<0.1	41.2	832	<1
D152	5	<0.5	13.0	<1	<0.1	11.6	27	<1
D153	10	<0.5	299	<1	<0.1	8.0	374	<1
D154	26	3.0	47.5	<1	<0.1	20.0	205	<1
T1	18	0.7	9.7	<1	<0.1	18.0	22	<1
T2	59	<0.5	93.7	<1	<0.1	5.8	221	2
T3	15	<0.5	28.3	<1	<0.1	5.1	35	4
T4	6	<0.5	11.2	<1	<0.1	7.3	3	15
T5	18	0.8	203	<1	<0.1	10.1	729	<1
T6	16	<0.5	97.6	<1	<0.1	8.4	173	9
T7	30	1.6	10.4	<1	<0.1	12.7	54	<1
T8	21	0.5	25.1	<1	<0.1	14.0	73	2
T9	41	0.6	142	<1	<0.1	17.8	190	18
T10	17	<0.5	8.1	<1	<0.1	40.0	27	<1
T11	64	6.3	53.5	<1	0.1	60.8	263	<1
T12	96	11.3	10.8	<1	0.2	15.6	137	2
T13	7	<0.5	3.6	<1	<0.1	27.2	20	<1
T14	4	<0.5	15.5	<1	<0.1	51.5	56	<1
T15	9	<0.5	3.5	<1	<0.1	60.3	10	<1
T16	59	4.4	7.3	<1	<0.1	22.7	27	<1
T17	178	4.7	10.5	<1	0.4	12.5	58	4
T18	176	11.5	71.5	<1	0.2	15.0	240	8
T19	80	6.4	37.3	<1	<0.1	49.8	150	4
T20	9	<0.5	42.5	<1	<0.1	11.3	67	5
T21	8	<0.5	270	<1	<0.1	14.5	312	3
T22	24	<0.5	54.1	<1	<0.1	14.8	102	8
T23	137	6.0	9.9	<1	0.1	33.2	44	5
T24	51	<0.5	64.4	<1	<0.1	4.9	148	3
T25	35	0.8	44.7	<1	<0.1	5.8	346	2

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
T26	37	1.9	6.6	<1	<0.1	68.9	82	2
T27	77	<0.5	39.8	<1	0.1	33.1	510	<1
T28	107	3.4	12.7	<1	<0.1	49.5	121	1
T29	29	3.1	5.2	<1	<0.1	25.9	34	<1
T30	17	<0.5	9.2	<1	<0.1	23.8	43	3
T31	35	3.9	7.9	<1	<0.1	65.6	49	<1
T32	5	<0.5	19.1	<1	<0.1	78.3	46	<1
T33	5	<0.5	184	2	<0.1	10.1	218	5
T34	8	<0.5	31.7	<1	<0.1	76.0	105	<1
T35	14	<0.5	7.0	<1	<0.1	43.8	14	<1
T36	51	<0.5	41.0	<1	<0.1	6.3	76	4
T37	11	1.3	12.0	<1	<0.1	39.6	48	<1
T38	14	1.0	18.3	<1	<0.1	48.2	59	<1
T39	14	0.8	265	<1	<0.1	9.3	439	2
T40	16	<0.5	5.9	<1	<0.1	17.5	25	6
T41	13	1.4	74.8	<1	<0.1	8.3	1120	<1
T42	9	0.6	113	<1	<0.1	13.2	139	6
T44	44	<0.5	63.0	<1	<0.1	5.1	189	13
T49	18	<0.5	98.3	<1	<0.1	21.5	332	<1
T50	41	2.5	21.4	<1	<0.1	30.6	117	<1
T51	73	4.8	10.8	<1	<0.1	84.9	71	4
T52	16	1.1	35.8	<1	<0.1	17.3	212	<1
T53	23	1.1	94.5	<1	<0.1	12.6	723	11
T54	14	<0.5	46.0	<1	<0.1	4.5	59	5
T55	13	0.6	42.8	<1	<0.1	5.6	94	10
T56	93	6.4	22.5	<1	<0.1	11.5	68	2
T57	46	2.1	17.6	<1	<0.1	36.7	74	1
T58	15	<0.5	41.0	<1	<0.1	18.9	140	<1
T59	16	<0.5	63.7	<1	<0.1	15.4	77	<1
T60	22	<0.5	31.9	<1	<0.1	19.6	50	5
T61	34	<0.5	53.8	<1	<0.1	6.2	90	7
T62	143	3.3	34.3	<1	<0.1	10.1	197	5
T63	20	0.7	85.3	<1	<0.1	6.1	201	<1
T65	22	<0.5	79.7	<1	<0.1	10.1	274	<1
T66	85	6.8	12.2	<1	<0.1	45.1	90	2
T67	38	0.6	27.9	<1	<0.1	10.9	40	7
T68	36	0.9	97.2	<1	<0.1	6.8	414	11
T69	14	<0.5	84.0	<1	<0.1	28.3	237	15
T70	56	1.0	93.6	<1	<0.1	8.3	448	3
T71	27	<0.5	19.5	<1	<0.1	29.7	51	3

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Element	Fe	Ga	Gd	Hg	In	K	La	Li
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	0.5	0.5	1	0.1	0.5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
T72	28	1.3	116	<1	<0.1	19.3	864	20
T73	25	<0.5	65.7	<1	<0.1	20.0	379	3
T74	36	<0.5	48.7	<1	<0.1	8.7	254	3
T75	43	2.4	412	<1	<0.1	24.0	724	4

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
D120	40.7	600	13	3.2	485	239	0.9	103
D121	15.1	2700	11	12.8	278	134	5.1	326
D122	72.1	1800	<2	1.1	862	598	0.6	197
D123	112	11800	3	<0.5	656	1080	0.3	45
D124	33.2	1800	<2	4.4	2060	121	0.9	168
D125	38.3	600	5	5.4	1410	159	0.9	2910
D126	16.7	500	4	11.0	914	62	1.7	246
D127	31.0	2900	<2	1.2	707	850	0.8	168
D129	35.6	4300	9	5.9	203	151	2.0	286
D130	17.0	1700	4	11.0	185	92	1.5	283
D139	49.3	800	4	<0.5	470	125	0.4	15
D140	38.8	100	5	5.0	624	102	0.8	112
D152	122	2500	8	<0.5	30	221	0.1	220
D153	98.8	3100	<2	<0.5	805	388	<0.1	460
D154	81.8	200	<2	1.9	182	164	0.5	402
T1	128	200	6	<0.5	31	118	0.1	18
T2	133	10100	7	<0.5	328	950	0.1	71
T3	174	2200	32	<0.5	78	766	0.1	24
T4	157	7700	34	<0.5	8	613	0.1	63
T5	100	900	2	<0.5	849	537	0.2	320
T6	115	2200	7	<0.5	270	712	<0.1	125
T7	57.7	1700	4	0.6	46	177	0.7	129
T8	124	200	2	<0.5	75	260	0.1	172
T9	162	1700	2	<0.5	353	1670	0.2	134
T10	153	2600	<2	<0.5	25	268	<0.1	546
T11	42.5	1900	8	4.0	210	482	1.0	544
T12	17.9	9900	16	9.6	61	86	3.5	999
T13	56.1	5800	11	<0.5	12	167	0.4	632
T14	103	3900	14	<0.5	39	239	0.2	286
T15	71.7	4400	8	<0.5	9	108	0.3	76
T16	44.4	2500	18	1.9	26	117	1.5	193
T17	25.6	800	4	4.0	41	195	2.9	2460
T18	35.3	2600	9	5.6	272	237	3.0	458
T19	71.4	8900	5	3.3	151	269	2.8	306
T20	104	1600	2	<0.5	105	352	0.2	27
T21	119	1200	3	<0.5	681	384	0.2	57
T22	99.6	3600	8	<0.5	176	1380	<0.1	44
T23	18.0	1000	9	2.5	40	83	4.1	145
T24	72.9	4300	3	<0.5	226	2860	<0.1	72
T25	74.4	13700	3	<0.5	314	892	0.1	22

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
T26	70.7	800	3	1.1	46	165	0.7	48
T27	141	1900	<2	<0.5	316	300	0.4	150
T28	67.9	5600	<2	2.5	69	186	2.3	192
T29	45.2	500	2	1.5	22	214	0.3	126
T30	148	1400	<2	<0.5	27	238	<0.1	4810
T31	58.6	4900	6	3.7	33	108	1.1	253
T32	105	3800	11	<0.5	41	403	0.3	228
T33	166	4500	7	<0.5	374	748	<0.1	106
T34	102	1900	4	<0.5	81	415	0.3	300
T35	83.4	800	3	<0.5	23	108	0.4	14
T36	64.4	1500	4	<0.5	135	1760	0.1	56
T37	105	700	2	<0.5	46	81	0.3	29
T38	90.1	9400	3	<0.5	61	188	0.6	59
T39	275	3100	<2	<0.5	720	637	0.1	16
T40	133	1000	12	<0.5	26	159	0.2	16
T41	173	4400	<2	<0.5	469	256	0.1	42
T42	127	9900	4	<0.5	273	1260	0.2	34
T44	86.6	21300	4	<0.5	280	2120	0.1	17
T49	66.5	16400	<2	<0.5	374	511	0.4	55
T50	50.3	300	<2	1.9	98	153	0.3	170
T51	67.3	2800	3	1.7	45	309	1.5	216
T52	74.8	2000	<2	<0.5	138	175	0.2	362
T53	55.1	400	7	<0.5	559	238	0.3	853
T54	149	7100	14	<0.5	121	1770	<0.1	32
T55	152	13600	10	<0.5	159	1290	0.1	26
T56	41.7	3200	3	3.5	77	164	1.1	162
T57	78.3	3300	<2	0.8	65	154	0.7	150
T58	154	1100	<2	<0.5	146	304	0.1	151
T59	120	1700	<2	<0.5	149	603	0.1	50
T60	152	8400	4	<0.5	83	534	0.2	21
T61	157	7500	3	<0.5	158	1270	0.2	18
T62	38.1	15200	15	2.6	187	206	2.0	85
T63	124	2500	<2	<0.5	288	887	<0.1	33
T65	180	8000	28	<0.5	346	298	0.2	39
T66	17.0	1600	11	5.2	61	126	3.8	191
T67	100	3700	52	0.7	78	1450	0.4	46
T68	82.1	3800	6	<0.5	480	1260	0.2	59
T69	51.3	1300	20	<0.5	332	157	0.1	57
T70	58.5	14100	2	<0.5	482	733	0.3	68
T71	68.5	6100	3	<0.5	74	843	0.3	22

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Element	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	100	2	0.5	1	5	0.1	5
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
T72	67.9	5500	5	<0.5	779	742	0.2	92
T73	62.5	1100	3	<0.5	340	369	0.2	54
T74	54.1	12700	4	<0.5	248	961	0.2	39
T75	73.6	2000	2	2.1	1170	519	0.7	251

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
D120	<1	119	<0.1	35	1.7	47	107	<1
D121	<1	72.9	<0.1	224	2.2	55	57	2
D122	<1	223	<0.1	30	0.7	142	175	<1
D123	<1	164	<0.1	18	1.3	57	138	<1
D124	<1	674	<0.1	58	1.6	76	167	<1
D125	<1	392	<0.1	135	1.1	159	276	<1
D126	<1	290	<0.1	225	1.6	58	138	2
D127	<1	166	<0.1	75	1.5	104	167	<1
D129	<1	48.1	<0.1	121	1.3	35	44	<1
D130	<1	44.9	<0.1	151	1.3	43	37	1
D139	<1	113	<0.1	46	<0.5	13	101	<1
D140	<1	175	<0.1	91	0.7	36	104	<1
D152	<1	6.8	<0.1	19	<0.5	9	8	<1
D153	<1	149	<0.1	32	<0.5	350	244	<1
D154	<1	46.4	<0.1	62	<0.5	89	45	<1
T1	<1	6.5	<0.1	3	<0.5	7	8	<1
T2	<1	74.5	<0.1	9	1.3	44	82	<1
T3	<1	15.4	<0.1	13	0.9	7	23	65
T4	<1	1.6	<0.1	8	1.4	6	6	<1
T5	<1	196	<0.1	23	<0.5	45	192	<1
T6	<1	57.5	<0.1	21	0.5	13	76	<1
T7	<1	11.7	<0.1	30	<0.5	9	10	<1
T8	<1	16.2	<0.1	16	<0.5	19	20	<1
T9	<1	74.6	<0.1	13	<0.5	50	104	<1
T10	<1	5.6	<0.1	29	<0.5	7	7	<1
T11	<1	53.5	<0.1	82	0.7	82	50	<1
T12	<1	17.9	<0.1	57	1.5	28	11	1
T13	<1	3.4	<0.1	40	<0.5	<5	3	<1
T14	<1	8.8	<0.1	49	<0.5	12	11	<1
T15	<1	2.7	<0.1	11	<0.5	<5	3	<1
T16	<1	6.2	<0.1	55	0.8	20	7	<1
T17	<1	12.0	<0.1	69	0.6	26	11	<1
T18	<1	68.8	<0.1	75	1.2	72	63	2
T19	<1	38.4	<0.1	43	<0.5	34	36	<1
T20	<1	20.9	<0.1	13	<0.5	9	33	<1
T21	<1	120	<0.1	7	<0.5	18	207	<1
T22	<1	35.7	<0.1	8	0.9	10	47	<1
T23	<1	11.2	<0.1	73	0.7	27	11	<1
T24	<1	50.3	<0.1	30	1.6	30	57	<1
T25	<1	78.7	<0.1	6	1.2	16	49	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
T26	<1	13.6	<0.1	11	<0.5	8	7	<1
T27	<1	86.1	<0.1	39	<0.5	20	45	<1
T28	<1	21.5	<0.1	29	<0.5	19	14	<1
T29	<1	5.6	<0.1	59	<0.5	10	5	<1
T30	<1	6.8	<0.1	112	<0.5	20	7	<1
T31	<1	7.9	<0.1	34	0.7	7	7	<1
T32	<1	9.4	<0.1	56	<0.5	15	11	<1
T33	<1	70.5	<0.1	21	0.5	15	121	<1
T34	<1	19.2	<0.1	68	<0.5	24	23	<1
T35	<1	4.5	<0.1	31	<0.5	6	6	<1
T36	<1	27.3	<0.1	14	1.1	17	35	<1
T37	<1	10.3	<0.1	103	<0.5	9	12	<1
T38	<1	15.1	<0.1	46	<0.5	12	15	<1
T39	<1	147	<0.1	6	<0.5	100	207	<1
T40	<1	6.4	<0.1	11	<0.5	<5	6	<1
T41	<1	144	<0.1	23	<0.5	27	67	<1
T42	<1	52.1	<0.1	10	<0.5	17	85	<1
T44	<1	62.6	<0.1	26	2.5	21	63	<1
T49	<1	87.3	<0.1	25	<0.5	53	87	<1
T50	<1	21.8	<0.1	119	1.0	46	21	<1
T51	<1	12.7	<0.1	66	0.7	35	10	<1
T52	<1	36.3	<0.1	77	<0.5	78	29	<1
T53	<1	149	<0.1	44	<0.5	11	103	<1
T54	<1	22.5	<0.1	16	0.7	13	35	<1
T55	<1	33.5	<0.1	7	1.4	6	37	<1
T56	<1	17.9	<0.1	92	1.5	42	20	<1
T57	<1	15.3	<0.1	42	0.5	37	15	<1
T58	<1	35.0	<0.1	27	<0.5	41	35	<1
T59	<1	28.4	<0.1	28	0.7	48	43	<1
T60	<1	17.0	<0.1	24	0.5	24	25	<1
T61	<1	33.4	<0.1	19	0.8	15	43	<1
T62	<1	51.9	<0.1	101	3.7	41	37	<1
T63	<1	60.5	<0.1	11	0.8	34	70	<1
T65	<1	80.4	<0.1	5	2.0	24	75	<1
T66	<1	17.6	<0.1	75	2.1	19	13	<1
T67	<1	15.8	0.1	56	2.8	18	23	<1
T68	<1	120	<0.1	65	1.1	19	102	<1
T69	<1	79.6	<0.1	8	<0.5	10	78	<1
T70	<1	120	<0.1	33	1.0	42	101	<1
T71	<1	15.9	<0.1	19	0.7	16	17	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
T72	<1	208	<0.1	44	0.7	24	139	<1
T73	<1	89.5	<0.1	14	0.5	22	65	<1
T74	<1	66.5	<0.1	29	0.9	21	51	<1
T75	<1	248	<0.1	30	1.4	257	336	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
D120	1490	<1	13.5	<10	105	840	0.1	365
D121	310	1	6.9	<10	115	4240	0.7	33.3
D122	1650	<1	24.3	<10	127	340	0.2	152
D123	2160	<1	17.4	<10	148	120	0.1	188
D124	970	<1	13.5	<10	215	1430	0.3	53.4
D125	660	<1	32.8	<10	355	1970	0.4	72.0
D126	320	<1	14.6	<10	375	3290	1.4	31.5
D127	1060	<1	25.2	<10	98.0	320	0.4	106
D129	800	<1	5.7	<10	39.4	2180	0.1	31.7
D130	310	<1	5.4	<10	52.5	4110	0.3	27.3
D139	1740	<1	10.9	<10	154	150	0.2	207
D140	960	<1	9.3	<10	114	1590	0.3	45.7
D152	3470	<1	1.8	<10	26.5	<10	<0.1	55.1
D153	2390	<1	48.7	<10	24.8	<10	<0.1	843
D154	1890	<1	6.9	<10	38.2	660	<0.1	34.1
T1	2750	<1	1.4	<10	12.7	20	<0.1	15.3
T2	2160	<1	12.0	<10	42.0	<10	<0.1	527
T3	2140	<1	3.6	<10	14.9	<10	<0.1	448
T4	3490	<1	1.5	<10	2.6	<10	<0.1	70.1
T5	3080	<1	25.7	<10	95.0	40	<0.1	144
T6	4220	<1	13.0	<10	52.4	<10	<0.1	652
T7	2060	<1	1.5	<10	28.1	100	<0.1	13.8
T8	3060	<1	3.4	<10	31.0	10	<0.1	42.0
T9	2230	<1	20.8	<10	63.2	<10	<0.1	156
T10	3360	<1	1.2	<10	9.0	<10	<0.1	5.3
T11	1020	<1	8.6	<10	63.7	1540	0.1	16.6
T12	710	<1	1.7	<10	49.7	3040	0.3	9.4
T13	1960	<1	0.5	<10	13.5	50	<0.1	8.6
T14	2840	<1	2.6	<10	11.2	<10	<0.1	32.0
T15	2750	<1	0.6	<10	5.8	10	<0.1	5.3
T16	1510	<1	1.1	<10	17.9	770	<0.1	8.2
T17	970	<1	1.8	<10	75.9	580	0.3	10.8
T18	1020	<1	11.1	<10	67.0	1230	0.4	30.0
T19	2050	<1	5.3	<10	37.7	710	0.2	23.0
T20	3110	<1	5.2	<10	36.3	<10	<0.1	157
T21	3370	<1	33.3	<10	60.6	<10	<0.1	123
T22	2550	<1	6.8	<10	40.4	<10	<0.1	140
T23	630	<1	1.4	<10	63.0	620	0.2	14.4
T24	2230	<1	9.7	<10	25.7	10	0.1	138
T25	2440	<1	5.5	<10	41.6	60	<0.1	140

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
T26	1700	<1	0.8	<10	49.5	240	<0.1	6.6
T27	3190	<1	5.2	<10	53.7	40	<0.1	10.5
T28	1250	<1	1.8	<10	77.8	620	<0.1	9.4
T29	2440	<1	0.8	<10	35.8	590	<0.1	9.9
T30	2960	<1	1.5	<10	36.8	<10	0.7	14.0
T31	1830	<1	1.1	<10	33.2	1080	0.1	7.8
T32	2420	<1	2.7	<10	23.5	<10	<0.1	31.7
T33	3430	<1	24.1	<10	90.6	<10	<0.1	185
T34	2320	<1	4.6	<10	48.8	<10	<0.1	27.6
T35	2290	<1	1.0	<10	18.9	<10	<0.1	13.6
T36	1690	<1	5.6	<10	18.0	<10	<0.1	298
T37	1820	<1	1.7	<10	21.1	140	0.1	7.7
T38	2240	<1	2.8	<10	46.5	10	<0.1	13.2
T39	3840	<1	34.5	<10	53.1	<10	<0.1	46.2
T40	3250	<1	0.8	<10	51.2	10	<0.1	37.4
T41	3480	<1	9.4	<10	88.5	<10	<0.1	15.6
T42	2530	<1	13.3	<10	25.3	<10	<0.1	88.5
T44	2630	<1	8.2	<10	90.6	<10	0.2	409
T49	2520	<1	13.3	<10	71.7	<10	<0.1	157
T50	1260	<1	3.2	<10	48.9	780	0.2	12.6
T51	1730	<1	1.7	<10	36.0	760	<0.1	10.4
T52	1780	<1	4.9	<10	87.4	30	0.1	27.8
T53	2160	<1	12.9	<10	302	10	0.1	209
T54	3430	<1	5.9	<10	30.7	<10	<0.1	503
T55	3650	<1	5.2	<10	47.1	<10	<0.1	347
T56	1010	<1	3.1	<10	45.3	1220	0.2	21.8
T57	1470	<1	2.5	<10	42.3	330	<0.1	14.4
T58	2550	<1	5.7	<10	45.3	<10	<0.1	24.3
T59	3020	<1	9.1	<10	30.6	<10	<0.1	42.2
T60	3080	<1	4.2	<10	42.4	<10	<0.1	293
T61	3170	<1	6.6	<10	34.6	20	<0.1	95.0
T62	960	<1	4.2	<10	115	520	0.2	69.5
T63	2870	<1	11.1	<10	79.5	10	<0.1	223
T65	2700	<1	10.2	<10	108	<10	<0.1	703
T66	440	<1	1.9	<10	135	1350	0.1	14.6
T67	3100	<1	4.1	<10	28.8	30	0.4	670
T68	1850	<1	11.6	<10	170	20	0.3	91.0
T69	2450	<1	10.9	<10	85.4	<10	<0.1	395
T70	1770	<1	12.8	<10	114	60	0.1	95.9
T71	2510	<1	2.6	<10	35.4	<10	<0.1	79.6

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
T72	1500	<1	12.9	<10	279	110	0.3	283
T73	2040	<1	8.1	<10	167	10	<0.1	137
T74	1860	<1	6.1	<10	116	10	0.1	130
T75	1430	<1	56.5	<10	87.7	930	<0.1	44.1

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Element Method Det.Lim. Units	W GE_MMI_M 0.5 ppb	Y GE_MMI_M 1 ppb	Yb GE_MMI_M 0.2 ppb	Zn GE_MMI_M 10 ppb	Zr GE_MMI_M 2 ppb
D120	1.0	410	25.5	110	88
D121	1.8	227	17.9	100	100
D122	<0.5	900	61.5	310	94
D123	<0.5	635	49.1	150	86
D124	1.1	460	21.0	90	100
D125	0.8	1060	73.9	60	93
D126	1.3	464	28.7	80	74
D127	<0.5	955	65.0	50	105
D129	1.2	191	12.6	100	47
D130	1.5	162	11.2	70	62
D139	<0.5	339	30.3	20	23
D140	0.8	246	18.7	30	48
D152	<0.5	61	3.2	10	17
D153	<0.5	1460	153	20	28
D154	<0.5	209	11.7	20	59
T1	<0.5	43	2.2	30	15
T2	<0.5	502	32.2	100	62
T3	<0.5	111	7.6	<10	25
T4	<0.5	75	5.3	60	16
T5	<0.5	835	40.2	60	46
T6	<0.5	442	30.4	30	36
T7	<0.5	41	2.5	50	17
T8	<0.5	129	10.5	30	21
T9	<0.5	804	65.7	150	50
T10	<0.5	41	2.7	40	7
T11	0.7	284	16.7	100	58
T12	2.5	53	3.0	230	37
T13	<0.5	15	0.8	80	6
T14	<0.5	65	2.3	70	7
T15	<0.5	19	0.9	90	4
T16	<0.5	31	2.2	110	25
T17	<0.5	60	4.4	390	46
T18	0.7	436	25.0	620	54
T19	<0.5	183	11.7	370	27
T20	<0.5	192	10.6	40	13
T21	<0.5	1140	57.6	10	27
T22	<0.5	225	15.8	60	37
T23	0.5	34	2.7	100	83
T24	<0.5	351	27.9	50	51
T25	<0.5	187	13.8	50	33

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T26	<0.5	25	1.5	60	12
T27	<0.5	235	13.4	50	12
T28	<0.5	67	4.3	700	24
T29	<0.5	23	1.5	30	27
T30	<0.5	65	4.8	50	17
T31	0.5	31	1.7	780	25
T32	<0.5	73	4.0	230	15
T33	<0.5	825	43.4	10	22
T34	<0.5	157	8.4	80	19
T35	<0.5	30	2.6	20	11
T36	<0.5	217	16.6	110	27
T37	<0.5	63	3.6	30	12
T38	<0.5	82	4.6	190	18
T39	<0.5	1390	67.9	30	17
T40	<0.5	25	1.9	30	10
T41	<0.5	331	9.4	30	24
T42	<0.5	502	26.2	10	12
T44	<0.5	289	27.4	50	62
T49	<0.5	449	38.8	50	41
T50	<0.5	89	6.2	30	39
T51	<0.5	50	3.8	50	39
T52	<0.5	179	10.2	40	43
T53	<0.5	369	30.3	30	26
T54	<0.5	209	15.2	40	22
T55	<0.5	163	11.1	200	28
T56	0.5	113	8.7	40	55
T57	<0.5	78	5.5	70	32
T58	<0.5	149	7.5	20	27
T59	<0.5	309	22.4	30	26
T60	<0.5	158	11.8	30	30
T61	<0.5	250	17.8	30	43
T62	0.7	143	12.5	140	109
T63	<0.5	387	26.0	60	47
T65	<0.5	270	16.5	20	51
T66	1.5	42	3.6	90	97
T67	<0.5	173	13.8	50	57
T68	<0.5	451	28.7	190	85
T69	<0.5	365	24.7	80	25
T70	<0.5	471	37.8	100	71
T71	<0.5	96	8.1	100	31

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
T72	<0.5	461	32.2	200	98
T73	<0.5	261	18.4	140	59
T74	<0.5	217	18.7	30	62
T75	1.0	2230	177	30	87

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