



**Certificate of Analysis**  
**Work Order : VC162160**  
**[Report File No.: 0000018080]**

**Date:** July 22, 2016

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

**P.O. No.:** DUBLOON\_D1-D118  
**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
D1	17.5	235	<10	0.6	6580	<0.5	57	1
D2	13.8	49	<10	<0.1	8890	<0.5	183	<1
D3	32.9	93	10	7.6	6380	5.5	67	1
D4	12.0	148	10	0.2	8260	<0.5	172	1
D5	16.6	131	10	0.2	6860	<0.5	102	<1
D6	19.5	241	20	0.1	7480	0.7	50	<1
D7	26.5	46	<10	<0.1	7820	<0.5	242	<1
D8	10.0	127	40	0.1	5340	0.5	113	<1
D9	6.7	142	<10	<0.1	5500	<0.5	123	<1
D10	5.5	161	20	<0.1	6100	<0.5	47	<1
D11	27.6	145	30	10.3	6530	<0.5	161	<1
D12	6.6	53	<10	0.2	12400	<0.5	321	1
D13	2.5	85	<10	<0.1	8890	<0.5	56	2
D14	14.6	155	<10	0.5	6870	0.5	120	1
D15	3.2	124	20	<0.1	4900	0.5	124	2
D16	5.9	104	<10	0.2	10400	<0.5	197	2
D17	14.1	179	20	0.3	5250	<0.5	58	2
D18	27.6	198	40	0.1	3490	0.6	55	3
D19	24.0	214	<10	0.2	3820	<0.5	55	2
D20	7.8	59	10	0.2	13500	<0.5	197	<1
D21	5.8	118	10	0.1	9170	<0.5	227	4
D22	9.9	124	<10	0.3	11600	<0.5	165	3
D23	30.7	242	30	0.3	6950	<0.5	132	1
D24	15.7	139	<10	0.2	8470	<0.5	228	1
D25	21.0	179	20	<0.1	3680	<0.5	109	1
D26	9.1	154	20	<0.1	3140	<0.5	43	<1
D27	10.7	146	30	<0.1	8570	<0.5	146	<1
D28	12.0	257	40	<0.1	4570	0.7	45	2
D29	32.0	11	<10	0.9	19000	<0.5	783	3
D30	9.8	20	<10	0.9	25000	<0.5	627	1
D32	4.1	113	<10	<0.1	14800	<0.5	585	1
D33	10.1	144	<10	1.2	10700	<0.5	385	<1
D34	12.3	95	<10	<0.1	20600	<0.5	389	<1
D35	7.9	81	<10	0.1	18500	<0.5	404	<1
D36	15.4	97	<10	0.3	16700	<0.5	690	2
D37	3.9	13	<10	0.8	14100	<0.5	618	<1
D38	5.8	88	<10	<0.1	15300	<0.5	279	<1
D39	16.4	149	10	<0.1	17500	<0.5	301	1
D40	3.7	127	<10	0.2	19500	<0.5	478	<1
D41	6.7	86	<10	0.4	21600	<0.5	650	2

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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
D42	21.7	16	<10	0.6	20800	<0.5	956	5
D43	12.0	46	<10	0.5	22500	<0.5	556	6
D46	15.9	176	40	0.5	9490	0.6	222	1
D47	18.5	101	<10	0.3	17000	<0.5	300	<1
D48	4.8	61	10	<0.1	9860	<0.5	198	<1
D49	9.1	97	<10	0.1	10100	<0.5	379	2
D50	21.6	27	<10	0.3	11600	<0.5	791	11
D51	16.6	68	<10	0.2	7800	<0.5	478	46
D52	28.7	58	<10	<0.1	9000	<0.5	483	7
D53	12.7	20	<10	0.5	8000	<0.5	640	<1
D55	5.0	64	20	0.1	14800	<0.5	240	<1
D56	13.6	25	<10	0.5	9380	<0.5	607	<1
D58	8.0	84	<10	0.1	3290	<0.5	333	18
D63	7.8	29	<10	0.2	9990	<0.5	385	<1
D64	9.1	57	<10	0.5	11300	<0.5	526	1
D65	22.0	44	<10	0.7	12200	<0.5	559	2
D66	7.9	53	<10	0.2	10300	<0.5	501	1
D67	6.6	74	20	0.3	12400	<0.5	267	3
D68	9.6	45	<10	0.4	11100	<0.5	521	4
D69	20.3	88	<10	0.3	10100	<0.5	407	1
D70	13.3	41	<10	0.3	15600	<0.5	536	<1
D71	13.4	107	<10	0.4	8840	<0.5	313	6
D72	13.0	98	<10	0.3	9860	<0.5	383	6
D73	29.7	75	<10	0.3	13700	<0.5	444	2
D74	22.2	111	<10	0.3	9080	<0.5	520	12
D75	11.2	105	10	0.2	13500	<0.5	340	2
D76	39.4	121	<10	<0.1	7380	<0.5	443	40
D77	14.3	60	<10	0.5	12200	<0.5	203	1
D78	28.4	96	<10	0.3	13200	<0.5	213	3
D79	10.4	120	20	<0.1	7410	<0.5	201	3
D80	17.4	43	<10	0.3	13700	<0.5	407	7
D86	17.4	11	<10	0.6	15700	<0.5	727	1
D87	8.1	89	<10	0.1	4080	0.5	221	54
D88	9.2	84	<10	0.3	5860	<0.5	327	14
D92	27.6	36	<10	0.5	14900	<0.5	657	2
D93	15.1	89	<10	0.7	15400	<0.5	359	<1
D94	4.6	78	<10	0.2	21200	<0.5	388	<1
D95	13.3	53	<10	0.3	22600	<0.5	514	<1
D96	9.2	95	20	<0.1	16300	<0.5	221	<1
D97	12.0	20	<10	0.4	20100	<0.5	647	<1

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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
D98	7.6	30	<10	1.4	21400	<0.5	588	<1
D99	10.9	21	<10	0.9	11000	<0.5	611	<1
D113	16.0	81	<10	0.4	6470	<0.5	241	48
D118	3.4	34	10	0.2	3210	<0.5	418	4

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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
D1	669	45	<100	2.9	480	36.5	16.2	9.7
D2	270	30	<100	1.8	150	13.7	6.9	5.3
D3	643	49	<100	2.4	130	36.3	16.5	13.2
D4	396	43	100	2.5	170	18.0	7.3	6.5
D5	610	38	<100	1.0	130	18.1	7.8	5.9
D6	1020	284	<100	1.4	310	61.5	32.1	15.5
D7	95	25	<100	0.3	170	6.9	3.7	2.5
D8	180	33	<100	0.7	180	9.5	4.8	3.1
D9	905	44	<100	1.4	190	57.9	25.0	15.5
D10	316	24	<100	0.6	110	9.1	3.8	2.9
D11	737	87	<100	1.6	220	46.4	22.7	16.4
D12	637	38	<100	1.2	120	29.1	12.9	11.6
D13	725	78	<100	1.9	110	34.9	17.2	9.3
D14	2930	76	<100	1.4	330	90.4	36.7	25.5
D15	1260	22	<100	0.9	220	82.1	39.4	23.6
D16	1130	78	<100	0.9	110	20.6	9.0	7.2
D17	527	44	<100	2.3	170	30.0	14.4	7.5
D18	435	42	<100	1.7	150	23.7	10.9	7.5
D19	113	59	<100	1.9	150	9.2	4.5	2.6
D20	402	55	<100	1.5	220	23.3	11.6	6.6
D21	635	151	100	1.4	190	36.6	18.4	12.1
D22	616	51	<100	2.9	210	41.7	20.2	16.3
D23	1080	61	<100	2.0	410	102	49.1	25.3
D24	254	50	<100	1.2	350	36.9	17.3	9.4
D25	200	77	<100	1.4	220	12.6	5.8	3.4
D26	494	28	<100	1.1	140	14.8	7.2	4.1
D27	252	28	100	0.8	100	7.2	3.2	2.7
D28	222	80	100	1.8	150	9.6	4.9	3.3
D29	124	134	<100	<0.2	1970	30.7	15.7	10.2
D30	167	17	<100	<0.2	1170	67.6	35.4	17.6
D32	536	357	<100	<0.2	170	18.6	9.2	5.9
D33	1180	361	<100	<0.2	590	261	166	42.0
D34	126	204	<100	0.2	170	10.4	5.5	3.5
D35	309	67	<100	0.4	200	20.4	8.7	6.6
D36	49	121	<100	<0.2	350	12.9	8.8	3.1
D37	309	23	<100	<0.2	430	67.2	33.6	21.0
D38	106	86	<100	1.1	180	9.5	4.4	3.4
D39	119	28	<100	0.3	180	10.2	5.0	3.6
D40	659	156	<100	<0.2	320	51.9	22.7	15.7
D41	2400	307	<100	<0.2	1020	218	101	62.9

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D42	69	26	<100	<0.2	1160	27.2	14.2	7.4
D43	956	134	<100	<0.2	880	63.8	29.7	20.2
D46	350	178	<100	0.8	420	33.6	19.2	8.3
D47	148	70	<100	<0.2	420	29.9	16.5	7.0
D48	265	22	<100	0.5	80	8.5	3.8	1.7
D49	54	30	<100	<0.2	130	5.5	2.6	1.8
D50	1150	24	<100	<0.2	1210	92.0	49.8	21.8
D51	263	342	<100	<0.2	2840	68.1	42.9	10.8
D52	568	76	<100	<0.2	790	46.2	26.2	9.0
D53	82	243	<100	<0.2	570	32.1	15.1	8.0
D55	72	101	<100	0.4	230	5.5	2.6	2.3
D56	19	69	<100	<0.2	570	4.3	1.9	1.5
D58	328	229	<100	0.4	770	55.5	33.4	11.0
D63	140	13	<100	<0.2	370	15.7	6.6	5.3
D64	1510	30	<100	<0.2	1040	137	58.6	41.7
D65	1230	34	<100	<0.2	850	111	48.4	31.4
D66	1060	21	<100	<0.2	680	42.3	18.9	14.0
D67	414	46	<100	0.3	610	32.1	15.6	9.7
D68	883	23	<100	<0.2	1260	45.6	21.2	13.8
D69	452	41	<100	0.2	430	31.4	16.1	8.5
D70	807	25	<100	<0.2	890	51.4	24.3	15.7
D71	1930	72	<100	0.5	1630	107	52.5	31.4
D72	4230	422	<100	0.2	1150	150	76.5	42.1
D73	5790	96	<100	0.3	730	166	76.4	46.8
D74	1360	106	<100	<0.2	1010	84.3	46.5	21.0
D75	1650	177	<100	<0.2	370	39.7	17.6	13.7
D76	792	55	<100	<0.2	640	66.5	37.8	11.7
D77	930	61	<100	0.4	660	103	49.3	27.1
D78	2210	261	<100	0.8	690	204	97.1	55.9
D79	625	153	<100	1.0	200	24.4	14.1	7.5
D80	1140	86	<100	<0.2	580	51.3	24.6	16.6
D86	252	266	<100	<0.2	4730	36.1	21.2	11.8
D87	253	640	<100	0.4	1340	103	66.9	15.0
D88	657	107	<100	0.4	1790	73.9	42.4	16.5
D92	155	84	<100	<0.2	1250	39.5	19.7	10.2
D93	1220	109	<100	0.2	1280	137	65.8	39.5
D94	475	29	<100	0.2	370	87.4	50.5	23.0
D95	191	132	<100	<0.2	410	27.8	10.8	7.3
D96	126	80	<100	0.7	260	17.6	9.5	4.7
D97	248	73	<100	<0.2	610	38.4	17.6	8.5

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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
D98	677	83	<100	<0.2	1280	237	137	43.5
D99	265	97	<100	<0.2	580	75.3	42.0	16.3
D113	229	232	<100	0.9	2770	69.0	49.1	11.8
D118	878	374	<100	<0.2	2400	36.6	22.0	11.1

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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
D1	55	8.3	43.4	<1	0.1	17.2	509	5
D2	29	3.0	18.5	<1	<0.1	33.9	101	1
D3	68	7.2	49.2	<1	0.1	17.9	265	<1
D4	50	6.2	22.9	<1	0.1	49.5	186	<1
D5	81	5.7	26.5	<1	<0.1	112	500	2
D6	129	15.5	69.7	<1	0.2	83.3	709	7
D7	11	1.0	10.4	<1	<0.1	118	65	<1
D8	87	7.9	13.1	<1	<0.1	91.2	149	1
D9	55	8.0	71.8	<1	<0.1	66.4	613	2
D10	49	4.2	12.4	<1	<0.1	55.4	191	1
D11	65	7.1	54.6	<1	0.1	13.2	293	2
D12	40	4.4	39.8	<1	<0.1	38.6	265	<1
D13	73	7.0	46.9	<1	0.1	26.1	346	2
D14	63	6.1	136	<1	0.1	27.2	2670	<1
D15	114	12.6	112	<1	<0.1	19.3	1050	2
D16	85	5.4	30.1	<1	<0.1	33.0	1000	2
D17	67	6.7	39.8	<1	0.1	19.8	352	3
D18	87	9.5	30.3	<1	0.2	21.1	243	2
D19	63	2.4	9.1	<1	0.1	6.6	56	1
D20	20	2.8	30.9	<1	<0.1	16.3	292	1
D21	90	7.9	51.7	<1	0.1	46.7	308	2
D22	46	5.2	60.9	<1	0.1	7.8	468	<1
D23	92	11.5	105	<1	0.2	53.4	513	8
D24	39	4.3	34.6	<1	<0.1	20.5	158	<1
D25	79	10.3	13.9	<1	0.2	35.8	117	3
D26	96	7.0	20.6	<1	0.1	69.7	325	3
D27	88	9.4	10.2	<1	0.1	67.7	226	2
D28	141	14.2	11.9	<1	0.1	42.3	123	9
D29	19	<0.5	46.2	1	<0.1	2.7	72	9
D30	9	<0.5	92.3	<1	<0.1	6.3	108	2
D32	19	0.8	24.5	<1	<0.1	13.3	176	1
D33	34	1.2	227	<1	<0.1	10.3	615	1
D34	32	2.2	12.4	<1	<0.1	6.1	67	<1
D35	18	1.0	26.3	<1	<0.1	6.0	112	<1
D36	11	<0.5	13.6	<1	<0.1	6.7	20	<1
D37	6	<0.5	118	<1	<0.1	6.9	152	4
D38	46	4.4	11.9	<1	<0.1	8.6	53	<1
D39	47	3.2	14.0	<1	<0.1	42.2	96	1
D40	22	1.5	75.6	<1	<0.1	5.2	231	1
D41	23	0.7	310	<1	<0.1	6.9	974	5

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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
D42	14	<0.5	36.4	<1	<0.1	11.2	51	4
D43	27	1.0	94.7	<1	<0.1	7.6	446	<1
D46	106	10.0	35.1	<1	0.1	22.7	215	4
D47	18	0.8	30.8	<1	<0.1	39.9	83	2
D48	44	3.0	10.6	<1	<0.1	82.7	120	2
D49	18	1.1	7.1	<1	<0.1	106	31	<1
D50	26	<0.5	128	<1	<0.1	4.1	318	10
D51	143	<0.5	62.9	<1	0.1	7.6	97	3
D52	15	0.7	46.2	<1	<0.1	62.3	81	<1
D53	5	<0.5	44.8	<1	<0.1	11.8	31	<1
D55	43	3.3	7.2	<1	<0.1	42.8	39	1
D56	5	<0.5	5.7	<1	<0.1	85.5	9	<1
D58	132	0.9	61.0	<1	<0.1	5.1	141	5
D63	10	0.6	25.1	<1	<0.1	27.0	99	<1
D64	23	0.9	196	<1	<0.1	27.7	660	<1
D65	13	0.7	171	<1	<0.1	9.1	852	<1
D66	40	0.7	65.6	<1	<0.1	17.5	652	4
D67	53	3.1	48.6	<1	<0.1	31.6	207	2
D68	20	0.9	72.4	<1	<0.1	15.1	306	2
D69	33	1.6	43.7	<1	<0.1	9.3	281	<1
D70	27	0.5	77.7	<1	<0.1	18.4	416	4
D71	110	2.9	151	<1	<0.1	21.6	1190	3
D72	73	3.3	211	<1	<0.1	22.3	1950	8
D73	36	1.0	249	<1	<0.1	24.6	3110	7
D74	44	1.3	109	<1	<0.1	15.3	893	6
D75	63	4.4	63.9	<1	<0.1	22.0	1030	1
D76	85	1.2	68.5	<1	<0.1	50.9	322	10
D77	14	1.5	136	<1	<0.1	46.2	455	<1
D78	52	3.0	256	<1	<0.1	49.7	1190	2
D79	108	7.1	32.3	<1	<0.1	34.6	426	11
D80	23	0.5	84.7	<1	<0.1	48.9	972	3
D86	46	<0.5	52.8	<1	<0.1	3.6	101	4
D87	207	2.2	93.4	<1	0.2	2.5	88	5
D88	156	2.1	89.0	<1	0.1	3.5	278	4
D92	12	<0.5	48.2	<1	<0.1	5.7	62	<1
D93	59	3.2	189	<1	<0.1	7.4	522	2
D94	13	0.8	109	<1	<0.1	6.6	239	<1
D95	8	<0.5	36.6	<1	<0.1	11.8	77	<1
D96	41	3.3	21.8	<1	<0.1	26.6	65	<1
D97	5	<0.5	49.9	<1	<0.1	9.5	66	1

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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
D98	6	<0.5	329	1	<0.1	36.7	401	3
D99	4	<0.5	97.7	1	<0.1	12.2	176	2
D113	264	1.8	64.1	<1	0.2	6.5	92	2
D118	193	1.6	52.2	<1	<0.1	15.9	379	9

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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
D1	7.1	400	2	3.6	271	86	2.1	277
D2	19.5	1400	3	2.3	108	29	0.6	54
D3	4.1	3800	5	2.9	252	31	1.2	132
D4	24.3	500	<2	5.0	115	108	1.3	202
D5	29.1	400	2	23.9	186	61	2.4	60
D6	24.6	400	4	7.1	450	450	3.2	266
D7	45.3	100	4	<0.5	53	67	0.8	137
D8	62.9	400	4	12.7	76	116	2.5	181
D9	41.7	400	3	6.9	388	99	1.4	241
D10	6.2	300	3	12.8	91	29	2.0	49
D11	16.5	1900	4	3.5	255	56	0.9	372
D12	19.5	3800	<2	1.8	225	63	0.7	33
D13	6.0	3200	5	10.2	273	48	2.0	153
D14	19.7	1000	2	5.5	1240	61	1.1	455
D15	19.1	900	6	10.1	802	98	4.3	148
D16	33.8	1700	4	9.9	320	70	1.8	49
D17	6.7	200	4	6.0	255	56	1.9	241
D18	3.3	400	5	7.1	209	45	2.1	368
D19	2.3	<100	<2	1.3	43	89	1.4	412
D20	17.8	500	<2	1.2	198	32	0.6	87
D21	39.0	1900	3	7.9	250	126	1.9	178
D22	17.0	2200	2	2.1	360	65	0.9	265
D23	20.9	600	3	6.2	461	181	2.2	574
D24	19.9	800	<2	2.2	126	70	0.5	359
D25	8.6	400	3	10.2	78	84	1.4	180
D26	13.2	300	6	15.2	155	44	4.3	66
D27	56.1	300	3	13.0	79	145	2.0	110
D28	10.1	700	4	23.2	65	90	3.7	151
D29	113	5300	6	<0.5	138	771	0.1	13
D30	111	400	<2	<0.5	202	460	0.2	20
D32	185	600	<2	<0.5	108	291	0.2	41
D33	134	100	<2	<0.5	759	773	0.2	569
D34	71.4	1000	<2	1.4	45	351	0.5	209
D35	66.1	900	3	0.5	107	158	0.4	140
D36	150	2700	<2	<0.5	29	415	0.2	312
D37	99.7	600	4	<0.5	323	266	0.2	28
D38	39.4	2000	4	4.4	45	76	0.8	235
D39	48.5	400	3	3.1	56	97	2.3	339
D40	115	300	<2	<0.5	273	462	0.4	259
D41	115	400	<2	<0.5	1320	787	0.2	132

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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
D42	125	800	2	<0.5	87	362	0.2	19
D43	68.7	300	<2	<0.5	409	345	0.4	56
D46	49.6	300	5	6.1	140	236	1.5	381
D47	81.0	200	<2	<0.5	94	331	0.3	395
D48	28.6	1900	4	2.9	77	46	11.0	93
D49	62.8	200	7	<0.5	26	130	1.6	121
D50	74.1	1100	8	<0.5	475	652	0.2	64
D51	71.1	7800	5	<0.5	152	1900	0.2	167
D52	134	33200	5	<0.5	113	1380	0.4	69
D53	183	1900	3	<0.5	72	227	0.2	77
D55	62.9	500	4	2.0	27	93	0.8	47
D56	99.5	200	10	<0.5	12	111	0.1	24
D58	65.2	12200	6	1.3	210	632	0.6	116
D63	87.3	200	3	<0.5	109	124	0.1	45
D64	116	300	<2	<0.5	805	316	0.1	84
D65	103	400	<2	<0.5	778	264	0.1	77
D66	75.8	300	3	<0.5	469	164	0.3	83
D67	47.2	1500	9	2.0	214	150	0.9	167
D68	78.7	2300	5	<0.5	335	274	0.2	45
D69	87.4	<100	<2	0.8	215	156	0.2	226
D70	76.7	300	2	<0.5	389	249	0.2	61
D71	34.7	1000	3	1.8	945	433	1.3	144
D72	65.2	3600	4	3.0	1590	387	1.2	172
D73	55.2	1000	4	2.0	1970	189	0.5	78
D74	72.9	1200	<2	<0.5	655	412	0.4	156
D75	68.3	4100	5	3.0	510	174	1.1	211
D76	89.7	5400	<2	<0.5	311	390	0.8	169
D77	80.3	700	4	<0.5	557	145	0.3	198
D78	59.0	4500	3	2.3	1240	313	1.5	327
D79	39.6	3300	12	6.5	263	101	6.3	141
D80	63.3	1400	4	0.6	621	134	0.5	64
D86	159	20300	28	<0.5	190	582	0.3	16
D87	35.1	2100	5	0.9	198	850	0.5	488
D88	44.9	1900	7	1.6	339	1140	0.9	224
D92	177	2600	4	<0.5	112	299	0.1	22
D93	63.6	1100	6	2.0	709	270	0.7	141
D94	99.5	500	<2	<0.5	324	290	0.2	347
D95	109	1300	7	<0.5	91	219	0.2	162
D96	53.6	1000	8	2.4	69	216	1.8	275
D97	177	4000	3	<0.5	107	502	0.2	73

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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
D98	158	1500	2	<0.5	780	336	0.2	46
D99	150	4400	17	<0.5	234	468	0.1	65
D113	48.6	5300	3	1.0	174	1880	0.5	151
D118	49.5	21000	76	2.1	351	599	0.7	85

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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
D1	<1	75.0	<0.1	185	1.2	52	48	<1
D2	<1	24.1	<0.1	260	0.8	16	20	<1
D3	<1	64.1	<0.1	210	1.5	34	53	<1
D4	<1	32.5	<0.1	229	1.0	39	24	<1
D5	<1	55.4	<0.1	322	2.0	26	29	<1
D6	<1	122	<0.1	105	1.1	69	76	<1
D7	<1	12.9	<0.1	118	<0.5	6	10	<1
D8	<1	22.4	<0.1	145	1.6	16	14	<1
D9	<1	106	<0.1	172	1.3	84	72	<1
D10	<1	25.6	<0.1	297	1.0	17	14	<1
D11	<1	59.8	<0.1	103	1.5	49	53	<1
D12	<1	54.7	<0.1	264	<0.5	23	43	<1
D13	<1	72.5	<0.1	301	1.4	25	52	<1
D14	<1	387	<0.1	180	1.8	110	159	<1
D15	<1	221	<0.1	202	1.2	61	134	<1
D16	<1	101	<0.1	103	1.2	17	41	<1
D17	<1	67.7	<0.1	182	0.8	29	44	<1
D18	<1	58.0	<0.1	230	1.7	39	36	<1
D19	<1	11.0	<0.1	123	<0.5	17	10	<1
D20	<1	51.9	<0.1	146	0.5	14	34	<1
D21	<1	66.7	<0.1	132	1.4	48	49	<1
D22	<1	88.2	<0.1	207	1.1	50	65	<1
D23	<1	121	<0.1	188	2.6	71	99	<1
D24	<1	29.9	<0.1	175	1.1	72	30	<1
D25	<1	21.2	<0.1	242	0.9	36	16	<1
D26	<1	47.9	<0.1	252	1.1	18	24	<1
D27	<1	25.5	<0.1	169	0.8	15	12	<1
D28	<1	18.4	<0.1	277	1.9	33	12	<1
D29	<1	27.1	<0.1	6	1.1	12	37	<1
D30	<1	34.9	<0.1	9	<0.5	22	61	<1
D32	<1	28.2	<0.1	24	<0.5	39	21	<1
D33	<1	162	<0.1	12	<0.5	186	165	<1
D34	<1	11.0	<0.1	50	1.0	17	11	<1
D35	<1	25.0	<0.1	85	0.7	28	24	<1
D36	<1	6.0	<0.1	31	<0.5	24	9	<1
D37	<1	54.7	<0.1	5	0.5	17	89	<1
D38	<1	11.3	<0.1	94	1.4	15	11	<1
D39	<1	14.4	<0.1	34	1.1	24	12	<1
D40	<1	60.5	<0.1	51	<0.5	55	67	<1
D41	<1	279	<0.1	17	0.5	122	269	<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
D42	<1	16.7	<0.1	6	0.8	18	27	<1
D43	<1	92.7	<0.1	20	0.9	37	88	<1
D46	<1	35.4	<0.1	79	2.4	86	31	<1
D47	<1	20.7	<0.1	64	0.5	50	25	<1
D48	<1	22.2	<0.1	62	<0.5	10	13	<1
D49	<1	5.9	<0.1	31	<0.5	10	6	<1
D50	<1	99.9	<0.1	10	1.2	21	110	<1
D51	<1	33.5	<0.1	39	1.7	82	43	<1
D52	<1	24.2	<0.1	50	0.5	53	31	<1
D53	<1	11.3	<0.1	15	<0.5	19	29	<1
D55	<1	7.0	<0.1	85	1.2	13	6	<1
D56	<1	2.4	<0.1	15	<0.5	9	4	<1
D58	<1	47.1	<0.1	27	1.3	45	54	<1
D63	<1	23.3	<0.1	27	<0.5	8	23	<1
D64	<1	174	<0.1	10	0.6	65	184	<1
D65	<1	187	<0.1	22	<0.5	40	162	<1
D66	<1	128	<0.1	15	1.0	21	74	<1
D67	<1	49.4	<0.1	49	2.0	32	45	<1
D68	<1	73.6	<0.1	15	0.6	20	68	<1
D69	<1	49.6	<0.1	37	<0.5	36	38	<1
D70	<1	94.5	<0.1	5	0.6	21	76	<1
D71	<1	243	<0.1	79	1.2	81	160	<1
D72	<1	430	<0.1	34	1.2	115	244	<1
D73	<1	577	<0.1	44	0.7	104	303	<1
D74	<1	165	<0.1	25	0.6	74	115	<1
D75	<1	147	<0.1	31	2.3	53	74	<1
D76	<1	75.0	<0.1	6	<0.5	73	61	<1
D77	<1	122	<0.1	40	<0.5	70	122	<1
D78	<1	281	<0.1	97	1.4	182	245	<1
D79	<1	72.1	<0.1	42	2.0	33	41	<1
D80	<1	172	<0.1	13	0.8	24	94	<1
D86	<1	37.0	<0.1	8	6.5	15	47	<1
D87	<1	39.1	<0.1	38	1.7	56	65	<1
D88	<1	77.9	<0.1	37	2.6	66	79	<1
D92	<1	21.2	<0.1	18	0.5	21	34	<1
D93	<1	148	<0.1	19	1.6	96	170	<1
D94	<1	65.0	<0.1	56	<0.5	49	86	<1
D95	<1	20.3	<0.1	54	<0.5	18	24	<1
D96	<1	15.5	<0.1	90	1.1	21	17	<1
D97	<1	20.2	<0.1	17	<0.5	16	32	<1

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Element	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
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	0.1	1	0.5	5	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
D98	<1	143	<0.1	16	0.7	55	218	<1
D99	<1	47.4	<0.1	8	0.6	23	57	<1
D113	<1	35.2	<0.1	47	1.8	78	49	<1
D118	<1	84.6	<0.1	9	3.8	43	60	<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
D1	210	<1	7.0	<10	234	1360	1.0	21.9
D2	1010	<1	2.6	<10	62.6	500	1.0	10.8
D3	280	<1	7.1	<10	71.5	630	1.4	13.6
D4	650	<1	3.2	<10	110	1620	0.9	12.5
D5	780	1	3.3	<10	153	4640	0.9	7.8
D6	340	<1	10.2	<10	84.6	2700	0.3	19.2
D7	1280	<1	1.4	<10	24.0	80	<0.1	5.2
D8	450	<1	1.6	<10	56.2	3660	0.2	4.2
D9	610	<1	10.1	<10	69.0	2480	0.4	20.7
D10	240	<1	1.8	<10	139	2220	0.9	7.0
D11	870	<1	8.1	<10	109	1240	1.2	12.9
D12	1030	<1	5.5	<10	95.4	470	1.3	34.1
D13	280	<1	6.4	<10	129	1880	1.3	10.7
D14	420	<1	17.2	<10	298	2250	0.5	73.8
D15	520	<1	15.5	<10	135	2940	0.3	33.2
D16	1090	<1	3.8	<10	149	2170	0.5	16.1
D17	160	<1	5.4	<10	113	1770	0.7	9.4
D18	160	<1	4.2	<10	158	2210	0.9	13.5
D19	150	<1	1.7	<10	55.5	230	0.3	5.2
D20	810	<1	4.3	<10	72.7	600	0.7	14.5
D21	980	<1	6.7	<10	142	2110	1.0	29.4
D22	840	<1	7.6	<10	109	730	2.0	38.4
D23	480	<1	15.9	<10	208	2480	0.5	38.1
D24	820	<1	5.9	<10	54.0	1050	0.3	33.2
D25	340	<1	2.2	<10	173	2730	0.6	16.9
D26	220	<1	2.5	<10	162	2730	1.2	11.6
D27	710	<1	1.4	<10	48.5	4220	0.2	3.4
D28	210	1	1.7	<10	96.7	4960	0.8	8.4
D29	3490	<1	5.7	<10	35.5	<10	<0.1	85.6
D30	3360	<1	12.1	<10	41.3	<10	<0.1	59.1
D32	3540	<1	3.4	<10	45.5	20	<0.1	10.5
D33	2780	<1	39.2	<10	105	10	<0.1	67.4
D34	2430	<1	1.8	<10	34.4	400	<0.1	6.7
D35	2130	<1	3.8	<10	59.1	200	0.2	16.3
D36	3670	<1	2.0	<10	35.9	<10	<0.1	31.6
D37	2590	<1	13.1	<10	28.8	10	<0.1	32.8
D38	1150	<1	1.6	<10	36.5	1330	0.2	11.6
D39	1390	<1	1.9	<10	34.2	890	<0.1	5.4
D40	2440	<1	9.8	<10	65.5	120	<0.1	47.1
D41	3200	<1	39.6	<10	108	50	<0.1	69.5

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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
D42	2800	<1	4.8	<10	27.5	<10	<0.1	51.4
D43	2140	<1	12.5	<10	113	60	<0.1	62.4
D46	920	<1	5.5	<10	140	2530	0.1	31.2
D47	1520	<1	5.0	<10	42.7	130	0.1	19.1
D48	880	<1	1.6	<10	113	400	0.1	5.0
D49	2090	<1	1.0	<10	29.5	80	<0.1	6.1
D50	3090	<1	16.8	<10	136	20	<0.1	254
D51	1760	<1	10.0	<10	45.0	30	0.1	718
D52	2440	<1	7.6	<10	21.8	20	0.1	38.7
D53	2970	<1	5.4	<10	6.6	<10	<0.1	22.2
D55	1430	<1	1.0	<10	29.7	1070	0.2	6.5
D56	2340	<1	0.8	<10	4.4	10	<0.1	25.5
D58	1260	<1	8.8	<10	48.5	170	0.1	484
D63	1730	<1	3.2	<10	25.9	20	<0.1	34.9
D64	2370	<1	25.9	<10	83.4	50	<0.1	215
D65	2350	<1	21.2	<10	88.8	10	<0.1	104
D66	1950	<1	7.3	<10	126	70	<0.1	135
D67	1250	<1	6.1	<10	137	720	0.1	65.5
D68	2060	<1	8.6	<10	88.5	30	<0.1	205
D69	1930	<1	5.9	<10	81.5	270	0.2	51.2
D70	2270	<1	9.2	<10	119	40	<0.1	94.6
D71	1040	<1	19.7	<10	188	400	0.3	247
D72	1600	<1	26.7	<10	326	970	0.1	243
D73	1950	<1	31.4	<10	443	540	0.1	276
D74	2300	<1	15.7	<10	179	80	<0.1	192
D75	1500	<1	7.4	<10	190	1060	<0.1	37.9
D76	1780	<1	10.2	<10	193	70	0.1	199
D77	1020	<1	19.2	<10	64.9	120	0.1	165
D78	1060	<1	36.7	<10	109	1130	0.4	63.3
D79	830	<1	4.3	<10	109	1890	0.3	44.4
D80	1850	<1	9.8	<10	228	130	<0.1	126
D86	3670	<1	6.6	<10	50.3	20	<0.1	374
D87	1090	<1	15.2	<10	45.6	160	0.2	401
D88	1290	<1	13.1	<10	85.4	210	0.2	477
D92	2960	<1	6.8	<10	23.7	<10	<0.1	36.5
D93	1600	<1	25.1	<10	81.3	750	<0.1	81.2
D94	2980	<1	14.9	<10	22.7	40	<0.1	18.7
D95	3140	<1	5.4	<10	25.8	10	0.1	25.6
D96	1340	<1	3.1	<10	31.7	790	0.2	6.5
D97	3300	<1	6.7	<10	14.5	<10	<0.1	62.3

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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
D98	2990	<1	41.3	<10	43.6	<10	<0.1	110
D99	2670	<1	12.0	<10	49.1	<10	<0.1	211
D113	1780	<1	10.4	<10	37.6	170	0.3	438
D118	1520	<1	6.8	<10	73.5	210	<0.1	628

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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
D1	0.8	170	12.2	30	107
D2	<0.5	70	7.5	10	18
D3	<0.5	180	11.5	20	60
D4	0.6	93	6.2	30	71
D5	1.0	100	5.6	50	60
D6	1.0	335	28.8	60	66
D7	<0.5	42	2.5	20	8
D8	1.6	59	3.8	60	43
D9	0.7	333	17.3	30	75
D10	<0.5	44	3.1	30	56
D11	0.7	220	17.0	30	77
D12	<0.5	131	9.2	10	34
D13	0.6	191	14.7	30	40
D14	1.2	518	26.2	40	126
D15	1.2	380	30.5	50	41
D16	1.0	109	7.0	50	35
D17	0.7	163	11.4	50	41
D18	0.9	124	8.9	50	80
D19	<0.5	42	3.6	10	35
D20	<0.5	118	8.1	20	18
D21	0.7	204	15.0	70	66
D22	0.6	293	14.3	30	83
D23	1.2	592	40.0	70	137
D24	<0.5	199	11.6	20	72
D25	0.9	63	4.6	40	91
D26	0.7	76	5.2	30	49
D27	1.1	42	2.8	50	34
D28	0.9	47	3.5	80	88
D29	<0.5	201	12.8	10	37
D30	<0.5	460	21.8	10	27
D32	<0.5	130	7.0	20	20
D33	<0.5	2020	108	40	60
D34	<0.5	67	3.4	20	28
D35	<0.5	105	5.6	10	30
D36	<0.5	76	6.9	20	25
D37	<0.5	421	20.8	<10	20
D38	0.5	57	3.3	20	32
D39	<0.5	63	2.9	30	33
D40	<0.5	316	13.7	10	37
D41	<0.5	1460	66.2	20	77

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D42	<0.5	168	10.5	40	20
D43	<0.5	365	20.4	20	65
D46	1.3	201	16.2	50	109
D47	<0.5	167	11.9	20	32
D48	<0.5	43	2.8	60	27
D49	<0.5	40	1.8	20	20
D50	<0.5	541	36.0	70	66
D51	<0.5	503	37.8	200	60
D52	<0.5	257	17.9	40	26
D53	<0.5	175	7.7	10	6
D55	0.6	28	1.7	20	29
D56	<0.5	25	1.0	<10	6
D58	<0.5	365	28.3	50	51
D63	<0.5	90	4.5	<10	13
D64	<0.5	753	35.4	10	59
D65	<0.5	590	29.6	10	32
D66	<0.5	232	13.8	40	43
D67	1.0	175	12.0	140	81
D68	<0.5	263	15.0	50	38
D69	<0.5	155	9.5	20	48
D70	<0.5	283	16.0	20	42
D71	<0.5	639	33.9	30	122
D72	0.8	889	62.0	80	112
D73	0.5	936	56.5	30	104
D74	<0.5	505	34.6	50	68
D75	0.8	259	11.8	60	109
D76	<0.5	406	29.2	400	44
D77	<0.5	546	36.1	30	25
D78	0.8	1220	58.8	200	81
D79	1.3	147	11.5	70	64
D80	<0.5	306	19.0	20	43
D86	<0.5	260	17.2	10	60
D87	<0.5	778	55.1	600	46
D88	<0.5	486	34.1	60	102
D92	<0.5	231	13.3	10	17
D93	0.6	815	42.6	30	76
D94	<0.5	604	32.5	10	27
D95	<0.5	156	5.5	30	13
D96	<0.5	127	6.8	20	34
D97	<0.5	176	9.8	<10	8

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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
D98	<0.5	1500	80.8	10	18
D99	<0.5	464	29.3	<10	19
D113	<0.5	521	41.8	80	71
D118	<0.5	265	18.6	40	46

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