

## **Certificate of Analysis**

Work Order : VC132146 [Report File No.: 0000003364]

To: Gordon Richards

GORDON RICHARDS 6410 HOLLY PARK DR DELTA BC V4K 4W6

P.O. No. : LAKE Project

Project No. : -No. Of Samples : 52

Date Submitted : Aug 08, 2013 Report Comprises : Pages 1 to 13

(Inclusive of Cover Sheet)

Distribution of unused material:

Active files:

Certified By :

Satpaul Gill QAQC Chemist

Date:

Sep 12, 2013

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

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

n.a. = Not applicable -- =

\*INF = Composition of this sample makes detection impossible by this method  $\it M$  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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	Bi MMI-M	Ba MMI-M	Au MMI-M	As MMI-M	Al MMI-M	Ag MMI-M	WtKg WGH79	Element Method
1 10 1 5	1	10	0.1	10	1	1	0.001	Det.Lim.
ppb ppm ppb ppb	ppb	ppb	ppb	ppb	ppm	ppb	kg	Units
<1 450 2 87	<1	6320	0.4	10	42	4	0.465	S133
<1 240 8 550	<1	8000	0.2	<10	96	11	0.380	S136
<1 570 6 294	<1	11300	0.4	<10	32	17	0.375	S137
<1 510 21 637	<1	12900	0.3	<10	58	18	0.430	S138
<1 310 18 436	<1	8110	0.3	10	83	14	0.370	S139
<1 390 14 167	<1	7600	0.2	<10	29	21	0.290	S140
<1 500 <1 308	<1	11700	1.0	10	27	9	0.545	S141
<1 470 1 91	<1	8230	0.3	<10	32	11	0.515	S142
<1 580 <1 175	<1	10600	0.5	<10	17	4	0.450	S143
<1 450 3 186	<1	10300	0.5	10	17	21	0.440	S144
<1 430 <1 17	<1	8720	0.3	<10	16	9	0.405	S150
<1 470 <1 1230	<1	7090	0.3	<10	103	25	0.310	S151
<1 260 1 92	<1	4360	<0.1	30	75	3	0.430	S152
<1 400 1 537	<1	10300	0.5	<10	43	8	0.335	S153
<1 230 <1 2210	<1	13800	0.5	20	64	7	0.265	S154
<1 260 1 1240	<1	10800	0.4	20	53	8	0.350	S155
<1 230 1 273	<1	6140	0.1	20	64	8	0.300	S156
<1 380 1 137	<1	9060	0.3	10	37	5	0.260	S157
<1 480 4 193	<1	15400	0.9	<10	18	28	0.290	S159
<1 340 <1 228	<1	8380	0.1	<10	42	4	0.285	S160
<1 180 <1 203	<1	5480	<0.1	30	63	5	0.290	S161
<1 380 <1 2500	<1	12600	0.6	10	74	10	0.240	S162
<1 220 <1 397	<1	7790	<0.1	20	156	7	0.270	S163
<1 230 <1 287	<1	9440	0.1	20	174	20	0.290	S164
<1 530 <1 19	<1	6010	0.2	<10	34	16	0.245	S165
<1 370 <1 484	<1	3850	0.1	<10	76	13	0.255	S166
<1 300 <1 92	<1	9760	0.1	<10	39	6	0.330	S167
<1 420 9 707	<1	11500	0.2	<10	123	16	0.300	S168
<1 290 5 353	<1	9050	0.3	30	113	6	0.330	S169
<1 190 1 206	<1	6620	0.1	20	145	13	0.295	S170
<1 330 <1 108	<1	11600	<0.1	20	123	5	0.370	S171
<1 250 3 86	<1	1590	<0.1	20	137	7	0.270	S172
<1 430 2 808	<1	19200	0.4	<10	87	13	0.320	S173
<1 490 15 424	<1	13200	0.5	<10	27	27	0.595	S174
<1 310 1 63	<1	9170	<0.1	<10	54	3	0.335	S175
<1 320 1 241	<1	16000	0.3	<10	80	4	0.300	S176
<1 350 3 1160	<1	7860	0.2	<10	82	9	0.265	S177
<1 190 2 1950		7290	<0.1	<10	59	17	0.335	S178
<1 620 29 2130		7120	1.0	<10	35	112	0.365	S180
<1 60 <1 218		1800	<0.1	10	49	<1	0.335	S181
<1 720 <1 10		5370	<0.1	<10	24	2	0.380	S182
<1 360 <1 429		11400	<0.1	<10	60	1	0.315	S183
	<1	18100	0.6	<10	65	4	0.240	S184

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Element	WtKg	Ag	Al	As	Au	Ва	Bi	Ca	Cd	Ce
Method	WGH79	MMI-M								
Det.Lim.	0.001	1	1	10	0.1	10	1	10	1	5
Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
S185	0.235	18	21	<10	1.5	17700	<1	640	<1	138
S186	0.330	12	47	<10	0.4	13400	<1	420	1	390
S187	0.445	11	35	<10	0.3	10100	<1	500	8	461
S189	0.270	24	11	<10	0.7	7260	<1	470	<1	205
S190	0.300	8	41	20	0.5	4450	<1	230	<1	2210
S191	0.360	4	43	20	0.4	4100	<1	430	2	258
S192	0.460	13	58	<10	0.7	13600	<1	470	3	346
S193	0.315	10	87	<10	0.3	11500	<1	410	5	765
S194	0.365	12	160	<10	0.1	7330	<1	150	32	674

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Element	Co	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M									
Det.Lim.	5	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
S133	14	<0.5	310	6	2.8	1.9	28	<1	8	<1
S136	190	<0.5	1050	106	59.3	20.7	143	<1	113	<1
S137	16	<0.5	2500	35	19.0	9.1	32	<1	45	<1
S138	224	<0.5	3490	73	43.7	16.9	89	1	84	<1
S139	126	<0.5	1600	65	39.2	13.7	116	2	71	<1
S140	26	<0.5	2250	24	12.9	6.2	26	1	31	<1
S141	252	<0.5	1460	47	24.2	12.0	14	<1	64	<1
S142	122	<0.5	2070	13	7.3	3.4	15	<1	17	<1
S143	5	<0.5	450	21	8.4	6.4	5	<1	34	<1
S144	87	<0.5	3910	27	14.3	7.6	24	<1	38	<1
S150	26	<0.5	560	5	2.7	1.5	6	<1	7	<1
S151	277	<0.5	1780	273	155	58.4	47	<1	298	<1
S152	355	0.5	170	4	2.3	1.6	105	5	6	<1
S153	21	<0.5	1380	52	29.2	12.2	19	<1	71	<1
S154	69	0.5	810	118	50.8	35.0	38	4	193	<1
S155	49	<0.5	1200	113	62.9	28.0	47	2	162	<1
S156	46	<0.5	330	20	10.0	5.2	38	3	28	<1
S157	24	<0.5	610	8	3.7	2.9	24	1	14	<1
S159	20	<0.5	2030	34	17.7	8.7	10	<1	45	1
S160	49	<0.5	170	12	4.5	4.2	8	<1	21	<1
S161	57	<0.5	90	6	2.4	1.7	47	5	8	<1
S162	226	<0.5	1210	433	213	90.7	19	<1	546	<1
S163	89	<0.5	200	31	16.0	7.5	113	7	37	<1
S164	159	<0.5	280	28	14.1	6.2	67	5	31	<1
S165	16	<0.5	170	1	0.7	0.6	10	<1	2	<1
S166	32	<0.5	650	64	36.7	15.5	30	1	99	<1
S167	221	<0.5	290	11	6.6	2.8	11	<1	14	<1
S168	114	0.7	1040	135	75.0	25.2	85	3	141	<1
S169	52	0.6	280	34	18.6	9.4	51	5	47	<1
S170	139	<0.5	320	21	9.5	5.5	78	6	26	<1
S171	58	0.7	110	5	2.1	2.0	33	5	6	<1
S172	36	<0.5	210	6	2.8	2.0	49	5	7	<1
S173	214	<0.5	1300	91	41.6	25.9	23	1	120	<1
S174	7	<0.5	3200	64	35.5	17.6	29	<1	86	<1
S175	113	<0.5	300	10	4.8	2.8	8	<1	14	<1
S176	84	<0.5	360	20	9.3	5.5	6	1	25	<1
S177	67	<0.5	300	96	44.8	20.2	23	1	133	<1
S178	65	<0.5	200	30	11.9	16.2	26	1	59	<1
S180	28	0.5	5800	311	179	54.1	25	<1	375	<1
S181	111	0.8	60	7	3.5	1.5		5	9	<1
S182	36	<0.5	130	2	1.3	0.6	12	<1	2	<1
S183	70	<0.5	120	12	4.9	4.4	8	<1	20	<1
S184	351	<0.5	620	167	72.3	40.8	5	<1	232	<1

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Element	Co								Gd	Hg
Method	MMI-M									
Det.Lim.	5	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
S185	316	<0.5	1080	38	19.1	8.8	3	<1	50	2
S186	56	<0.5	700	46	19.9	12.8	13	<1	64	<1
S187	11	<0.5	1400	73	43.2	12.7	39	1	86	<1
S189	40	<0.5	3080	35	18.6	8.8	11	<1	54	2
S190	27	<0.5	1430	224	102	69.4	28	2	365	<1
S191	563	<0.5	2560	39	25.2	8.6	154	<1	45	<1
S192	35	<0.5	1240	46	20.9	12.1	19	<1	58	<1
S193	22	<0.5	1360	66	33.2	17.2	38	2	85	<1
\$194	96	<0.5	740	129	67.2	22.8	110	2	124	<1

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Element	In	K	La	Li	Mg	Mn	Мо	Nb	Nd	Ni
Method	MMI-M									
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
S133	<0.5	5.8	26	<5	60	580	<5	<0.5	33	147
S136	<0.5	1.6	217	<5	52	3180	<5	0.8	359	930
S137	<0.5	3.0	100	<5	74	830	6	<0.5	151	1290
S138	<0.5	4.1	270	<5	82	2520	<5	0.6	342	1840
S139	<0.5	2.9	172	<5	67	1130	6	0.8	259	1240
S140	<0.5	3.3	59	7	62	540	12	0.6	106	1500
S141	<0.5	3.8	120	<5	117	4780	<5	<0.5	195	889
S142	<0.5	4.4	36	<5	105	6300	10	<0.5	59	874
S143	<0.5	3.0	70	<5	137	80	<5	<0.5	128	237
S144	<0.5	5.0	86	<5	72	1920	12	<0.5	137	436
S150	<0.5	5.2	4	<5	72	1720	7	<0.5	14	302
S151	<0.5	5.8	509	16	113	4730	<5	<0.5	845	976
S152	<0.5	7.1	51	8	48	13600	16	4.6	36	62
S153	<0.5	4.4	194	<5	75	290	<5	<0.5	288	667
S154	<0.5	10.6	1350	<5	49	800	<5	3.7	1160	252
S155	<0.5	5.9	730	<5	42	410	<5	2.8	805	297
S156	<0.5	30.4	137	<5	46	3290	8	1.8	144	127
S157	<0.5	14.1	114	<5	84	420	10	0.7	94	171
S159	<0.5	3.9	64	6	128	530	6	<0.5	118	686
S160	<0.5	12.1	107	<5	79	270	<5	<0.5	97	135
S161	<0.5	44.4	103	5	43	270	18	5.2	64	71
S162	<0.5	17.6	1430	15	144	380	7	<0.5	1740	687
S163	<0.5	48.3	284	<5	53	510	8	6.2	175	273
S164	<0.5	20.1	171	<5	65	410	<5	3.4	131	408
S165	<0.5	7.9	12	<5	88	60	15	<0.5	9	73
S166	<0.5	29.4	391	7	64	1920	20	<0.5	524	298
S167	<0.5	20.5	48	<5	60	3760	33	<0.5	58	237
S168	<0.5	10.7	373	18	89	1700	6	1.0	467	1200
S169	<0.5	19.8	205	8	62	710	66	2.9	230	165
S170	<0.5	55.1	129	<5	49	640	8	4.0	124	172
S171	<0.5	47.5	60	7	82	620	<5	2.2	37	115
S172	<0.5	61.2	34	<5	45	2790	7	3.6	34	141
S173	<0.5	9.4	362	<5	93	730	<5	<0.5	427	554
S174	<0.5	3.0	211	14	104	240	<5	<0.5	319	1600
S175	<0.5	7.2	36	<5	44	1940	<5	<0.5	47	107
S176	<0.5	7.5	197	<5	65	170	<5	<0.5	103	175
S177	<0.5	12.3	573	<5	77	1150	<5	0.9	610	349
S178	<0.5	13.7	1340	<5	37	620	6	4.3	608	149
S180	<0.5	10.9	1480	61	89	2380	33	<0.5	1480	3000
S181	<0.5	37.2	103	<5	8	3790	9	6.4	71	42
S182	<0.5	9.0	2	<5	106	990	5	<0.5	5	147
S183	<0.5	9.1	209	<5	72	340	<5	<0.5	150	109
S184	<0.5	5.8	339	<5	145	2510	<5	<0.5	651	740

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Element	In	K	La	Li	Mg	Mn	Мо	Nb	Nd	Ni
Method	MMI-M									
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
S185	<0.5	4.2	52	<5	158	1130	<5	<0.5	97	559
S186	<0.5	5.1	163	<5	81	410	12	<0.5	227	355
S187	<0.5	6.9	298	26	83	370	20	<0.5	370	1400
S189	<0.5	6.8	113	47	64	250	154	<0.5	194	445
S190	<0.5	18.5	2210	5	34	550	33	1.4	2190	202
S191	<0.5	7.5	126	6	57	16100	351	1.3	198	1610
S192	<0.5	5.8	150	<5	88	710	14	<0.5	196	438
S193	<0.5	4.1	279	6	71	590	31	<0.5	360	658
S194	<0.5	3.2	209	<5	35	4330	<5	0.7	387	1160

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Element	P	Pb MMI-M	Pd	Pr					Sm	Sn
Method	MMI-M 0.1	10	MMI-M 1	MMI-M 1	MMI-M	MMI-M 5			MMI-M	MMI-M
Det.Lim. Units	ppm	ppb	ppb	ppb				1	ppb	ppb
S133	0.3	<10	<1	8		17	<1	6	7	<1
S136	0.6	220	<1	78		57	1		93	<1
S137	<0.1	20	<1	33				23	37	<1
S138	0.2	130	<1	81					75	<1
S139	0.6	110	<1	59		36		63	61	<1
S140	0.3	20	<1	22					27	<1
S141	0.2	20	<1	40		10			50	<1
S142	0.3	<10	<1	12		19		9	15	<1
S143	<0.1	<10	<1	28		13			30	<1
S144	0.1	20	<1	29		12			33	<1
S150	0.1	<10	<1	2					4	<1
S151	0.1	110	<1	180		11	<1	232	234	<1
S152	1.1	30	<1	9		34			6	<1
S153	0.3	10	<1	65		11	<1	22	64	<1
S154	0.5	50	<1	292					203	<1
S155	0.6	40	<1	196		17	2		162	<1
S156	1.9	50	<1	36					28	<1
S157	0.6	30	<1	23		21	<1		14	<1
S159	0.2	10	<1	24		15		16	33	<1
S160	0.2	40	- <1	22		25		8	20	<1
S161	2.4	30	<1	18		56		17	10	<1
S162	0.3	170	<1	397		49		149	449	<1
S163	2.7	130	<1	47					35	<1
S164	1.0	210	<1	33		32		41	27	<1
S165	0.2	10	<1	2		29		<5	2	<1
S166	0.8	30	<1	125		21	<1	25	106	<1
S167	0.7	20	<1	14				6	14	<1
S168	0.5	150	<1	110		49		118	114	<1
S169	1.2	150	<1	54		17			48	<1
S170	1.2	200	<1	31		36			26	<1
S171	2.0	90	<1	10		43	<1	25	7	<1
S172	6.2	60	<1	8		39	<1	28	7	<1
S173	0.2	80	<1	96	<1	38	<1	91	102	<1
S174	0.2	<10	<1	69		29		31	76	<1
S175	0.4	40	<1	10			<1	10	11	<1
S176	0.1	120	<1	24	<1	43	<1	22	21	<1
S177	0.4	110	<1	149		59		31	128	<1
S178	0.5	720	<1	176		35		18	75	<1
S180	0.1	420	<1	351		82		16	314	<1
S181	3.7	90	<1	21		73		8	11	<1
S182	0.2	<10	<1	<1				<5	2	<1
S183	0.2	20	<1	38		50		11	21	<1
S184	<0.1	90	- <1	131					185	<1
	9.1	00	11	101	1			, , ,	.00	- 1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M									
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb								
S185	<0.1	70	<1	18	<1	15	<1	15	31	<1
S186	0.2	40	<1	48	<1	28	<1	21	55	<1
S187	0.2	20	<1	87	<1	15	<1	22	79	<1
S189	0.3	10	<1	39	<1	16	<1	12	46	<1
S190	0.7	20	<1	553	<1	29	<1	34	410	<1
S191	0.4	30	<1	44	<1	5	5	60	42	<1
S192	0.2	30	<1	44	<1	9	<1	20	47	<1
S193	0.5	40	<1	81	<1	29	<1	43	77	<1
S194	1.1	140	<1	81	<1	61	<1	116	98	<1

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Element	Sr	Та	Tb	Те	Th	Ti	TI	U	W	Y
Method	MMI-M									
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	1
Units	ppb									
S133	2330	<1	1	<10	63.1	29	<0.5	39	<1	26
S136	1600	<1	17	<10	64.9	117	<0.5	126	<1	644
S137	2940	<1	6	<10	54.1	55	<0.5	518	<1	216
S138	2990	<1	12	<10	55.2	114	<0.5	239	<1	464
S139	1730	<1	11	<10	48.6	107	<0.5	140	<1	427
S140	2020	<1	4	<10	47.8	150	<0.5	446	<1	132
S141	2640	<1	8	<10	60.3	39	<0.5	53	<1	268
S142	2800	<1	2	<10	34.9	35	<0.5	144	<1	77
S143	3530	<1	4	<10	25.9	23	<0.5	46	<1	94
S144	2430	<1	5	<10	39.9	62	<0.5	252	<1	160
S150	2560	<1	<1	<10	13.8	21	<0.5	334	<1	29
S151	3430	<1	45	<10	76.3	36	<0.5	447	<1	1710
S152	1530	<1	<1	<10	51.7	1000	<0.5	17	<1	24
S153	2400	<1	9	<10	179	59	<0.5	87	<1	299
S154	1560	<1	24	<10	278	1050	<0.5	43	<1	671
S155	1580	<1	21	<10	393	795	<0.5	58	<1	685
S156	1190	<1	4	<10	130	550	<0.5	25	<1	105
S157	1920	<1	1	<10	54.2	195	<0.5	24	<1	46
S159	2650	<1	6	<10	27.0	11	<0.5	47	<1	198
S160	2290	<1	2	<10	67.4	81	<0.5	28	<1	65
S161	1050	<1	1	<10	96.4	1310	<0.5	31	<1	24
S162	2590	<1	76	<10	168	130	<0.5	106	<1	2410
S163	1030	<1	5	<10	82.9	1940	<0.5	19	<1	167
S164	1580	<1	5	<10	57.7	1100	<0.5	24	<1	161
S165	2480	<1	<1	<10	13.2	57	<0.5	13	<1	8
S166	1540	<1	12	<10	140	94	<0.5	248	<1	401
S167	2240	<1	2	<10	60.8	11	<0.5	42	<1	60
S168	2630	<1	22	<10	84.8	319	<0.5	234	<1	848
S169	1690	<1	6	<10	88.5	875	<0.5	87	<1	194
		<1	4							93
S170	1020			<10	80.5	1080	<0.5	29	<1	
S171	3210	<1	<1	<10	26.3	512	<0.5	9	<1	24
S172	1330	<1	1	<10	23.0	923	<0.5	11	<1	28
S173	3820	<1	17	<10	71.3	114	<0.5	72	<1	483
S174	3410	<1	12	<10	77.6	54	<0.5	180	<1	374
S175	2800	<1	2	<10	27.7	41	<0.5	26	<1	55
S176	3090	<1	4	<10	32.3	132	<0.5	25	<1	108
S177	2100	<1	18	<10	161	226	<0.5	42	<1	571
S178	1240	<1	7	<10	117	996	<0.5	23	<1	176
S180	3390	<1	53	<10	220	27	<0.5	3300	<1	2150
S181	310	<1	1	<10	135	940	<0.5	33	3	35
S182	3380	<1	<1	<10	30.4	25	<0.5	67	<1	12
S183	2820	<1	2	<10	73.5	62	<0.5	22	<1	75
S184	4730	<1	31	<10	37.2	17	<0.5	271	<1	1030

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Element	Sr	Ta	Tb	Te	Th	Ti	TI	U	W	Y
Method	MMI-M									
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	1
Units	ppb									
S185	4260	<1	7	<10	9.7	25	<0.5	41	<1	232
S186	2940	<1	8	<10	65.3	37	<0.5	1030	<1	224
S187	3570	<1	12	<10	97.6	69	<0.5	1180	<1	467
S189	3240	<1	7	<10	32.3	32	<0.5	7020	<1	230
S190	1390	<1	44	<10	293	373	<0.5	688	<1	1250
S191	2310	<1	6	<10	64.4	101	<0.5	1830	<1	284
S192	3110	<1	8	<10	57.9	54	<0.5	194	<1	213
S193	2790	<1	12	<10	88.2	199	<0.5	602	<1	387
S194	940	<1	21	<10	97.9	263	<0.5	126	<1	730

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Element Method Det.Lim.	Yb MMI-M 1	Zn MMI-M 20	Zr MMI-M 5
Units	ppb	ppb	ppb
S133	2	<20	35
S136	48	120	70
S137	16	40	43
S138	34	130	64
S139	33	200	80
S140	11	30	62
S141	18	<20	41
S142	6	<20	20
S143	5	20	44
S144	11	<20	33
S150	2	<20	36
S151	112	40	80
S152	2	30	37
S153	22	<20	50
S154	30	20	87
S155	51	<20	107
S156	8	60	46
S157	3	<20	37
S159	13	40	22
S160	3	<20	18
S161	2	30	40
S162	125	40	110
S163	12	50	52
S164	10	30	42
S165	<1	<20	6
S166	31	<20	32
S167	6	<20	23
S168	57	40	72
S169	15	70	50
S170	7	60	56
S171	1	50	23
S172	2	60	43
S173	30	30	56
S174	27	140	50
S175	3	<20	21
S176	6	30	15
S177	32	20	40
S178	7	30	30
S180	135	90	54
S181	3	30	25
S182	<1	<20	15
S183	3	<20	16
S184	36	<20	11

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Element	Yb	Zn	Zr
Method	MMI-M	MMI-M	MMI-M
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
S185	12	<20	6
S186	13	<20	23
S187	35	40	52
S189	15	20	50
S190	75	20	92
S191	25	<20	87
S192	14	30	71
S193	24	80	77
S194	48	1280	78

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