



Certificate of Analysis

Work Order : VC131081

[Report File No.: 0000000983]

To: **Chris S. LeBlanc**
COD SGS ASSAYERS
C/O F406501 SGS ASSAYERS
8282 SHERBROOKE STREET
VANCOUVER BC V5X 4R6

Date: Jun 03, 2013

P.O. No. : Northern Waterworks RL1301541PC/LD130127
Project No. : -
No. Of Samples : 15
Date Submitted : May 13, 2013
Report Comprises : Pages 1 to 7
(Inclusive of Cover Sheet)

Distribution of unused material:


Active files:

Comments:

ICM12B package.

Boron values are informational only.

Certified By :



Satpaul Gill
QAQC 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	Al ICM12B 0.01 %	B ICM12B 10 ppm	Ba ICM12B 5 ppm	Ca ICM12B 0.01 %	Cr ICM12B 1 ppm	Cu ICM12B 0.5 ppm	Fe ICM12B 0.01 %	K ICM12B 0.01 %	Li ICM12B 1 ppm	Mg ICM12B 0.01 %
JL-031-13	1.03	<10	83	0.40	23	142	>15.0	0.12	6	0.50
JL-032-13	1.27	<10	52	0.43	21	200	13.2	0.14	10	0.69
JL-033-13	2.56	20	124	1.29	78	219	3.39	0.27	30	1.13
JL-034-13	2.75	10	132	1.08	46	82.7	6.76	1.00	40	1.13
JL-035-13	0.25	20	55	1.04	9	37.2	5.07	0.05	<1	0.13
JL-036-13	0.15	10	44	0.42	11	27.2	4.92	0.04	<1	0.10
JL-037-13	0.07	20	50	0.49	9	38.5	3.75	0.02	<1	0.09
JL-038-13	2.88	10	52	1.19	53	230	6.93	0.82	56	1.45
JL-039-13	0.24	30	9	0.48	15	183	1.89	0.02	7	0.51
JL-040-13	0.31	20	16	0.38	13	58.4	3.09	0.06	28	0.79
JL-041-13	3.19	<10	169	0.49	74	178	9.08	1.77	88	1.84
JL-042-13	0.32	40	6	1.84	42	73.1	1.21	<0.01	1	0.16
GBZ-021-13	0.08	30	7	0.28	12	114	1.91	0.02	<1	0.07
GBZ-022-13	3.26	<10	40	0.91	363	5610	12.0	0.03	41	1.63
GBZ-023-13	1.52	<10	41	0.44	154	705	12.4	0.07	16	0.77

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Element Method Det.Lim. Units	Mn ICM12B 2 ppm	Na ICM12B 0.01 %	Ni ICM12B 0.5 ppm	P ICM12B 50 ppm	S ICM12B 0.01 %	Ti ICM12B 0.01 %	V ICM12B 1 ppm	Zn ICM12B 1 ppm	Zr ICM12B 0.5 ppm	Sr ICM12B 0.5 ppm
JL-031-13	753	0.03	17.8	690	0.45	0.02	61	111	6.2	10.2
JL-032-13	599	0.06	11.1	600	0.67	0.03	62	83	4.8	6.6
JL-033-13	224	0.22	58.1	310	0.34	0.05	96	51	1.7	17.5
JL-034-13	619	0.05	307	560	1.00	0.18	58	246	10.0	20.5
JL-035-13	913	0.02	23.3	260	0.03	<0.01	5	36	2.7	6.9
JL-036-13	520	0.01	12.5	200	0.04	<0.01	5	26	2.2	4.3
JL-037-13	510	0.01	14.4	190	0.15	<0.01	4	25	1.0	5.2
JL-038-13	420	0.07	101	380	3.79	0.18	90	1150	18.5	11.2
JL-039-13	118	<0.01	25.0	820	0.82	0.02	17	596	2.4	3.3
JL-040-13	124	0.01	31.9	800	1.19	0.02	28	95	3.9	3.0
JL-041-13	620	0.07	108	390	3.77	0.33	236	278	10.9	6.7
JL-042-13	183	<0.01	49.7	170	0.22	0.03	7	35	1.2	7.9
GBZ-021-13	230	0.02	20.7	<50	1.21	<0.01	5	7	0.8	5.3
GBZ-022-13	1030	0.04	140	350	>5.00	0.16	48	98	8.7	14.6
GBZ-023-13	445	0.03	45.3	330	0.94	0.16	62	69	9.9	11.3

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Element Method Det.Lim. Units	Ag ICM12B 0.01 ppm	As ICM12B 1 ppm	Be ICM12B 0.1 ppm	Bi ICM12B 0.02 ppm	Cd ICM12B 0.01 ppm	Ce ICM12B 0.05 ppm	Co ICM12B 0.1 ppm	Cs ICM12B 0.05 ppm	Ga ICM12B 0.1 ppm	Ge ICM12B 0.1 ppm
JL-031-13	0.15	5	0.3	0.25	0.14	10.3	12.1	1.24	5.4	0.2
JL-032-13	0.23	3	0.4	0.21	0.09	8.13	7.9	1.50	7.1	0.2
JL-033-13	0.22	4	0.2	0.09	0.04	4.35	19.7	1.94	7.0	<0.1
JL-034-13	0.10	183	0.5	0.27	0.37	28.6	27.0	2.97	10.1	0.2
JL-035-13	0.04	8	0.2	0.10	0.21	6.14	5.2	0.60	1.6	<0.1
JL-036-13	0.05	7	<0.1	0.08	0.10	3.69	3.5	0.53	1.0	<0.1
JL-037-13	0.07	6	<0.1	0.07	0.10	4.69	4.3	0.18	0.6	<0.1
JL-038-13	2.07	7	0.7	0.38	6.29	17.7	30.1	2.73	10.8	0.1
JL-039-13	1.15	38	0.1	0.07	2.38	8.60	9.2	0.14	1.3	<0.1
JL-040-13	2.24	65	0.1	0.10	0.28	5.28	11.7	0.33	1.7	<0.1
JL-041-13	2.19	20	0.4	0.34	0.42	18.6	30.4	4.55	15.4	0.3
JL-042-13	0.08	9	<0.1	0.04	0.12	3.62	7.7	<0.05	0.8	<0.1
GBZ-021-13	1.11	11	<0.1	0.36	0.02	0.41	3.4	<0.05	0.5	<0.1
GBZ-022-13	1.73	7	0.4	0.76	0.22	23.4	23.5	1.11	8.4	0.2
GBZ-023-13	0.92	3	0.1	0.62	0.13	7.83	9.1	0.73	9.4	0.2

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Element	Hf	Hg	In	La	Lu	Mo	Nb	Pb	Rb	Sb
Method	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B
Det.Lim.	0.05	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
JL-031-13	0.08	0.02	0.04	5.5	0.09	2.96	0.10	2.1	8.4	0.12
JL-032-13	0.06	0.01	0.05	4.5	0.07	2.14	0.07	1.5	6.4	<0.05
JL-033-13	<0.05	<0.01	0.03	1.9	0.07	0.90	<0.05	2.5	15.8	0.07
JL-034-13	0.17	0.02	0.11	13.9	0.10	2.58	0.35	6.2	48.8	0.44
JL-035-13	<0.05	<0.01	<0.02	2.7	0.05	0.69	0.14	1.5	9.4	0.21
JL-036-13	<0.05	<0.01	<0.02	1.9	0.04	0.76	<0.05	1.2	7.7	0.12
JL-037-13	<0.05	<0.01	<0.02	2.4	0.03	0.64	<0.05	1.0	3.0	0.16
JL-038-13	0.36	0.02	0.24	7.5	0.11	4.15	0.14	32.5	41.5	0.26
JL-039-13	0.06	<0.01	0.05	4.1	0.07	1.95	<0.05	23.1	1.4	0.50
JL-040-13	0.10	0.01	0.06	2.4	0.06	1.42	<0.05	18.6	3.6	0.22
JL-041-13	0.18	<0.01	0.08	8.2	0.09	3.59	0.15	29.2	68.4	0.24
JL-042-13	<0.05	<0.01	<0.02	1.7	0.04	5.25	<0.05	2.7	0.6	0.13
GBZ-021-13	<0.05	0.02	<0.02	0.2	<0.01	1.05	<0.05	1.4	0.4	0.08
GBZ-022-13	0.14	0.02	0.09	10.4	0.07	3.87	0.08	27.6	1.3	0.15
GBZ-023-13	0.16	0.04	0.09	3.3	0.04	2.75	0.11	23.0	2.0	0.16

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Element Method Det.Lim. Units	Sc ICM12B 0.1 ppm	Se ICM12B 1 ppm	Sn ICM12B 0.3 ppm	Ta ICM12B 0.05 ppm	Tb ICM12B 0.02 ppm	Te ICM12B 0.05 ppm	Th ICM12B 0.1 ppm	Ti ICM12B 0.02 ppm	U ICM12B 0.05 ppm	W ICM12B 0.1 ppm
JL-031-13	3.2	2	0.6	<0.05	0.13	0.41	1.1	0.09	0.19	1.4
JL-032-13	3.9	2	1.1	<0.05	0.10	0.45	1.1	0.14	0.19	1.0
JL-033-13	7.0	<1	0.3	<0.05	0.14	0.12	0.3	0.18	0.06	0.5
JL-034-13	7.0	4	1.3	<0.05	0.32	0.43	3.1	0.38	0.34	2.3
JL-035-13	0.5	<1	<0.3	<0.05	0.10	0.18	0.7	0.03	0.23	1.5
JL-036-13	0.4	<1	<0.3	<0.05	0.06	0.19	0.3	0.02	0.10	0.7
JL-037-13	0.2	<1	<0.3	<0.05	0.07	0.21	0.1	<0.02	<0.05	1.4
JL-038-13	11.1	5	2.1	<0.05	0.28	0.73	4.1	2.68	0.53	2.3
JL-039-13	1.4	<1	0.4	<0.05	0.17	0.14	0.3	0.16	0.09	2.6
JL-040-13	1.7	<1	0.4	<0.05	0.13	0.19	0.3	0.90	0.07	2.2
JL-041-13	21.8	3	1.3	<0.05	0.27	0.59	2.0	1.40	0.23	3.0
JL-042-13	0.5	<1	<0.3	<0.05	0.11	0.08	0.1	0.03	<0.05	2.9
GBZ-021-13	0.2	<1	<0.3	<0.05	<0.02	0.28	<0.1	0.02	<0.05	1.1
GBZ-022-13	5.1	4	1.2	<0.05	0.19	0.90	2.1	0.29	0.35	2.0
GBZ-023-13	5.3	3	1.3	<0.05	0.08	0.26	2.0	0.19	0.19	0.7

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Element	Y	Yb	Fe
Method	ICM12B	ICM12B	ICP90Q
Det.Lim.	0.05	0.1	0.01
Units	ppm	ppm	%
JL-031-13	4.00	0.5	31.2
JL-032-13	3.41	0.4	N.A.
JL-033-13	4.19	0.4	N.A.
JL-034-13	7.54	0.6	N.A.
JL-035-13	3.67	0.3	N.A.
JL-036-13	2.05	0.2	N.A.
JL-037-13	2.85	0.2	N.A.
JL-038-13	8.23	0.8	N.A.
JL-039-13	5.18	0.5	N.A.
JL-040-13	4.63	0.4	N.A.
JL-041-13	6.36	0.6	N.A.
JL-042-13	4.32	0.3	N.A.
GBZ-021-13	0.71	<0.1	N.A.
GBZ-022-13	4.85	0.5	N.A.
GBZ-023-13	2.16	0.2	N.A.

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