



Certificate of Analysis

Work Order : VC131627

[Report File No.: 0000001974]

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

Date: Jul 17, 2013

P.O. No. : Northern Waterworks RL1301928
Project No. : -
No. Of Samples : 18
Date Submitted : Jun 27, 2013
Report Comprises : Pages 1 to 7
(Inclusive of Cover Sheet)


Distribution of unused material:

Active files:

Comments:

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

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 2 of 7

Report File No.: 0000001974

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-071-13	0.70	40	9	0.47	49	86.8	1.63	0.02	5	0.42
JL-072-13	1.70	40	15	0.74	155	302	4.33	0.04	17	1.36
JL-073-13	0.13	40	<5	0.11	32	5.8	0.89	0.01	3	0.12
JL-074-13	0.99	130	12	0.10	676	76.8	4.52	0.02	11	10.5
JL-075-13	1.56	40	9	4.01	24	34.0	1.06	0.02	7	0.52
JL-076-13	3.70	50	16	5.01	241	103	4.87	0.01	74	3.03
JL-077-13	2.64	30	16	0.48	238	26.1	4.94	0.02	39	2.48
JL-078-13	2.95	10	33	0.85	152	299	6.19	0.09	23	2.57
JL-079-13	1.20	40	17	0.26	1100	43.9	3.64	0.02	7	3.82
JL-080-13	0.94	180	16	0.26	754	55.7	5.06	0.01	4	11.4
JL-081-13	1.08	70	21	0.21	634	1.8	3.07	0.03	7	4.12
JL-082-13	1.03	60	9	0.15	500	<0.5	2.34	<0.01	3	2.88
JL-083-13	0.92	40	7	0.80	91	1.5	1.11	0.02	12	0.62
PH-001-13	0.28	40	9	0.30	20	70.3	0.73	0.16	3	0.18
PH-002-13	0.11	50	7	0.37	37	4.1	0.57	0.01	2	0.19
PH-003-13	1.13	40	22	1.43	179	72.7	1.39	0.12	27	1.11
LEE001	1.33	30	367	0.38	118	33.4	2.43	0.92	52	1.10
LEE002	2.72	<10	31	1.88	3	593	7.29	0.02	17	1.40

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 3 of 7

Report File No.: 0000001974

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-071-13	155	0.09	42.9	110	0.14	0.02	23	12	1.1	3.5
JL-072-13	533	0.14	57.0	90	0.34	0.04	65	28	2.0	3.3
JL-073-13	110	0.01	10.5	50	<0.01	<0.01	7	4	1.6	3.7
JL-074-13	444	0.01	1100	60	0.03	<0.01	25	11	1.0	3.2
JL-075-13	317	0.12	12.8	120	0.01	<0.01	16	13	0.6	19.5
JL-076-13	873	0.02	101	200	0.22	0.07	78	68	3.8	25.1
JL-077-13	764	0.08	63.3	80	0.03	0.04	103	34	1.3	2.0
JL-078-13	855	0.17	68.9	70	0.40	0.02	86	50	2.2	2.1
JL-079-13	220	0.02	455	90	0.02	0.01	61	11	1.0	4.9
JL-080-13	425	0.01	1110	<50	0.04	<0.01	24	12	1.1	5.2
JL-081-13	210	0.02	361	70	<0.01	<0.01	28	9	1.1	4.7
JL-082-13	187	0.01	255	<50	<0.01	<0.01	24	8	1.2	2.0
JL-083-13	159	0.06	28.2	80	<0.01	0.05	30	12	1.3	56.2
PH-001-13	111	0.04	9.5	80	0.09	0.02	11	4	23.6	3.9
PH-002-13	106	0.02	13.6	200	<0.01	0.03	6	3	0.9	4.0
PH-003-13	221	0.06	158	680	0.13	0.07	31	17	2.8	20.3
LEE001	311	0.07	65.3	800	0.11	0.14	53	41	4.7	31.3
LEE002	678	0.07	4.8	630	0.32	0.09	162	72	3.4	23.9

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 4 of 7

Report File No.: 0000001974

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-071-13	0.03	4	<0.1	<0.02	0.02	0.99	16.8	0.05	1.6	<0.1
JL-072-13	0.14	4	<0.1	0.19	0.04	1.66	20.7	0.27	5.0	0.1
JL-073-13	<0.01	3	<0.1	<0.02	<0.01	3.73	2.3	0.13	1.4	0.1
JL-074-13	0.25	6	<0.1	0.03	0.04	7.14	75.9	0.48	2.2	0.2
JL-075-13	<0.01	3	0.1	0.05	0.04	5.35	5.6	0.18	2.8	<0.1
JL-076-13	0.10	4	0.3	0.02	0.25	14.6	43.2	0.24	9.4	0.3
JL-077-13	0.02	3	<0.1	<0.02	0.01	1.08	25.7	0.57	8.6	0.1
JL-078-13	0.06	3	<0.1	0.04	0.03	1.18	39.5	1.34	9.5	0.1
JL-079-13	0.05	3	<0.1	0.04	0.03	1.93	39.3	0.55	2.9	<0.1
JL-080-13	0.06	4	<0.1	<0.02	0.04	3.02	76.3	0.57	2.0	0.2
JL-081-13	<0.01	5	<0.1	<0.02	0.01	1.85	37.1	0.89	2.4	0.1
JL-082-13	<0.01	4	<0.1	<0.02	<0.01	0.40	24.8	0.20	2.1	0.1
JL-083-13	<0.01	4	0.1	<0.02	0.01	14.9	9.4	0.13	3.5	0.1
PH-001-13	0.05	4	0.4	0.04	0.01	13.8	3.7	0.39	1.6	<0.1
PH-002-13	<0.01	3	<0.1	<0.02	0.02	11.5	2.8	0.09	0.7	0.1
PH-003-13	0.05	6	0.2	0.07	0.02	48.3	22.6	0.45	3.0	0.2
LEE001	0.07	3	0.1	0.15	0.02	32.1	15.1	4.89	7.4	0.1
LEE002	0.02	3	<0.1	0.12	0.03	11.3	38.4	0.24	12.0	0.1

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 5 of 7

Report File No.: 0000001974

Element Method Det.Lim. Units	Hf ICM12B 0.05 ppm	Hg ICM12B 0.01 ppm	In ICM12B 0.02 ppm	La ICM12B 0.1 ppm	Lu ICM12B 0.01 ppm	Mo ICM12B 0.05 ppm	Nb ICM12B 0.05 ppm	Pb ICM12B 0.2 ppm	Rb ICM12B 0.2 ppm	Sb ICM12B 0.05 ppm
JL-071-13	<0.05	0.02	<0.02	0.4	0.02	0.29	0.06	1.8	0.8	<0.05
JL-072-13	0.06	0.02	<0.02	0.6	0.04	0.39	0.06	1.0	1.7	<0.05
JL-073-13	<0.05	0.01	<0.02	1.3	<0.01	1.09	0.17	1.1	0.8	<0.05
JL-074-13	<0.05	<0.01	<0.02	2.5	0.02	0.41	<0.05	2.8	1.7	0.12
JL-075-13	<0.05	0.02	<0.02	2.1	0.02	0.82	0.09	1.6	1.4	0.05
JL-076-13	0.10	0.01	<0.02	6.3	0.06	0.33	<0.05	6.3	0.6	<0.05
JL-077-13	<0.05	<0.01	<0.02	0.3	0.05	0.34	<0.05	0.5	2.0	<0.05
JL-078-13	<0.05	<0.01	<0.02	0.4	0.06	0.38	<0.05	1.0	7.6	<0.05
JL-079-13	<0.05	<0.01	<0.02	0.7	<0.01	0.12	<0.05	3.4	1.6	0.08
JL-080-13	<0.05	<0.01	<0.02	1.3	0.02	0.22	<0.05	3.7	1.7	0.07
JL-081-13	<0.05	<0.01	<0.02	0.7	0.01	0.08	<0.05	0.9	3.1	0.19
JL-082-13	<0.05	<0.01	<0.02	0.2	<0.01	0.09	<0.05	0.4	0.7	0.26
JL-083-13	<0.05	<0.01	<0.02	6.2	0.04	1.23	<0.05	1.1	1.7	0.15
PH-001-13	1.40	<0.01	<0.02	4.6	0.15	3.69	1.11	18.4	7.2	<0.05
PH-002-13	<0.05	0.01	<0.02	4.9	0.02	0.79	0.20	0.5	1.1	<0.05
PH-003-13	0.10	<0.01	<0.02	19.5	0.05	0.41	0.15	1.0	7.1	0.07
LEE001	0.12	<0.01	<0.02	11.9	0.04	1.22	0.17	1.9	51.2	0.06
LEE002	0.12	<0.01	0.02	4.5	0.11	1.65	<0.05	0.5	4.7	<0.05

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 6 of 7

Report File No.: 0000001974

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-071-13	5.0	1	<0.3	<0.05	0.03	<0.05	0.1	<0.02	<0.05	1.1
JL-072-13	12.5	1	<0.3	<0.05	0.06	0.13	0.1	0.03	<0.05	<0.1
JL-073-13	0.5	<1	<0.3	<0.05	0.02	<0.05	0.5	<0.02	0.28	<0.1
JL-074-13	7.3	<1	<0.3	<0.05	0.05	<0.05	<0.1	0.10	<0.05	<0.1
JL-075-13	2.4	<1	<0.3	<0.05	0.04	<0.05	0.2	<0.02	0.17	4.0
JL-076-13	10.4	<1	<0.3	<0.05	0.11	<0.05	0.6	<0.02	0.23	0.1
JL-077-13	11.5	<1	<0.3	<0.05	0.06	<0.05	0.1	0.03	<0.05	<0.1
JL-078-13	12.0	2	<0.3	<0.05	0.06	0.09	<0.1	0.08	<0.05	<0.1
JL-079-13	2.6	<1	<0.3	<0.05	<0.02	<0.05	<0.1	0.07	<0.05	<0.1
JL-080-13	10.2	<1	<0.3	<0.05	0.04	<0.05	<0.1	0.04	<0.05	<0.1
JL-081-13	2.1	<1	<0.3	<0.05	<0.02	<0.05	<0.1	0.02	<0.05	<0.1
JL-082-13	1.6	<1	<0.3	<0.05	<0.02	<0.05	<0.1	<0.02	<0.05	<0.1
JL-083-13	4.8	<1	<0.3	<0.05	0.08	<0.05	0.1	<0.02	0.06	0.1
PH-001-13	2.2	<1	<0.3	<0.05	0.22	<0.05	13.7	0.04	9.59	0.9
PH-002-13	0.5	<1	<0.3	<0.05	0.06	<0.05	0.4	<0.02	0.10	2.7
PH-003-13	5.1	<1	<0.3	<0.05	0.19	<0.05	2.1	0.04	0.37	1.6
LEE001	4.6	<1	0.3	<0.05	0.19	<0.05	3.9	0.31	0.85	0.3
LEE002	11.0	1	<0.3	<0.05	0.22	<0.05	0.4	<0.02	0.09	<0.1

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Final : VC131627 Order: Northern Waterworks RL1301928

Page 7 of 7

Report File No.: 0000001974

Element	Y	Yb	Pt@	Pd@
Method	ICM12B	ICM12B	FAI313	FAI313
Det.Lim.	0.05	0.1	10	1
Units	ppm	ppm	ppb	ppb
JL-071-13	1.31	0.2	10	15
JL-072-13	2.49	0.3	10	17
JL-073-13	0.61	<0.1	<10	<1
JL-074-13	2.56	0.1	<10	7
JL-075-13	1.29	0.1	<10	6
JL-076-13	3.97	0.4	<10	14
JL-077-13	2.51	0.3	<10	14
JL-078-13	2.57	0.3	<10	18
JL-079-13	0.60	<0.1	<10	13
JL-080-13	1.51	0.1	<10	5
JL-081-13	0.62	<0.1	<10	2
JL-082-13	0.34	<0.1	<10	4
JL-083-13	2.78	0.3	<10	13
PH-001-13	8.86	0.9	<10	3
PH-002-13	1.54	0.1	<10	<1
PH-003-13	4.83	0.4	<10	8
LEE001	4.16	0.3	<10	<1
LEE002	7.36	0.7	<10	<1

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.