Certificate of Analysis

Work Order : LK1500366

[Report File No.: 0000005201]

To: **ROBERT VALLIANT**
TRI-ORIGIN EXPLORATION LTD
125 DON HILLOCK DRIVE UNIT 18
AURORA ON L4G 0H8

Date: Sep 10, 2015

P.O. No.	:	-
Project No.	:	-
No. Of Samples	:	8
Date Submitted	:	Jul 23, 2015
Report Comprises	:	Pages 1 to 7 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Comments:

Detection limit for Pb increased as indicated due to sample matrix interference

Certified By :

Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= 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

For solid samples: Unless otherwise noted, all GT_ tests are reported on a dried at 105°C basis. Other tests are performed on an as received basis unless otherwise indicated. Exceptions will be marked. For example rec (e.g. Cu rec) indicates the results are reported on an as received basis or dry (e.g. Cu dry) indicates the results are reported on a dried basis.

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Element	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Detection Limit	-10.000	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
651001	2.54	69.2	15.6	1.83	0.72	1.74	1.03	6.15
651002	0.939	76.3	12.8	0.86	0.08	0.74	4.04	4.37
651005	1.90	59.0	15.0	9.06	2.51	5.79	1.83	3.25
*Rep 651005	1.90	59.3	15.0	9.06	2.54	5.83	1.84	3.25
651006	1.71	57.6	14.7	8.37	4.42	4.53	1.04	5.74
651018	2.72	67.8	16.3	1.72	0.79	2.69	1.70	5.54
651019	3.11	65.3	14.8	7.45	2.61	1.10	2.03	2.66
651020	1.71	49.8	14.2	15.0	6.20	7.18	0.60	3.71
651021	1.33	71.0	13.9	2.83	0.81	4.11	1.18	4.30

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Element	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum	@Ag	@Al
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GE_ICP40B	GE_ICP40B
Detection Limit	0.01	0.01	0.01	0.01	0.01	0	2	0.01
Units	%	%	%	%	%	%	ppm	%
651001	0.16	0.04	0.05	0.02	<0.01	99.1	<2	8.13
651002	0.03	<0.01	<0.01	0.02	<0.01	100.1	<2	6.59
*Rep 651002							<2	6.55
651005	1.08	0.14	0.16	0.03	0.04	99.8	<2	8.48
*Rep 651005	1.08	0.15	0.16	0.01	0.04	100.2		
651006	1.12	0.15	0.17	0.02	0.04	99.7	<2	8.14
651018	0.17	0.04	0.04	0.02	<0.01	99.6	<2	8.45
651019	0.53	0.04	0.14	0.03	0.01	99.8	<2	7.77
651020	0.79	0.25	0.04	0.06	0.04	99.6	2	7.88
651021	0.56	0.07	0.11	0.05	0.02	100.3	<2	7.49

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Element	@As	@Ba	@Be	@Bi	@Ca	@Cd	@Co	@Cr
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Detection Limit	30	1	0.5	5	0.01	1	1	1
Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
651001	<30	287	<0.5	<5	1.25	<1	3	89
651002	<30	276	1.3	<5	0.54	<1	<1	102
*Rep 651002	<30	276	1.3	<5	0.53	<1	<1	75
651005	<30	491	<0.5	<5	4.22	<1	21	74
651006	<30	261	<0.5	<5	3.26	<1	22	76
651018	<30	455	0.6	<5	1.94	<1	3	109
651019	<30	461	0.8	<5	0.78	<1	17	105
651020	<30	127	<0.5	<5	4.97	<1	44	278
651021	<30	277	<0.5	<5	3.02	<1	9	116

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Element	@Cu	@Fe	@K	@La	@Li	@Mg	@Mn	@Mo
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Detection Limit	0.5	0.01	0.01	0.5	1	0.01	2	1
Units	ppm	%	%	ppm	ppm	%	ppm	ppm
651001	5.6	1.20	0.85	3.8	13	0.40	238	4
651002	15.7	0.58	3.15	7.9	3	0.04	97	2
*Rep 651002	15.1	0.57	3.15	7.8	3	0.03	96	<1
651005	45.7	6.19	1.64	16.5	17	1.51	1122	5
651006	7.3	5.55	0.89	10.8	15	2.62	1087	2
651018	8.4	1.14	1.45	3.0	13	0.43	188	4
651019	52.7	4.89	1.71	16.7	51	1.50	349	2
651020	262	9.62	0.54	1.4	27	3.72	1824	4
651021	60.0	1.91	1.02	18.9	8	0.47	514	2

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Element	@Na	@Ni	@P	@Pb	@S	@Sb	@Sc	@Sn
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Detection Limit	0.01	1	0.01	20	0.01	5	0.5	10
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
651001	4.12	10	0.02	<20	<0.01	<5	3.1	<10
651002	3.01	8	<0.01	<20	0.16	<5	0.8	<10
*Rep 651002	3.03	6	<0.01	<20	0.17	<5	0.8	<10
651005	2.41	37	0.07	<20	0.03	<5	21.4	<10
651006	4.18	46	0.07	<20	0.01	<5	22.6	<10
651018	3.77	9	0.02	<20	0.02	<5	3.3	<10
651019	1.85	52	0.06	<20	0.03	<5	12.7	<10
651020	2.84	93	0.02	<20	0.03	<5	41.6	<10
651021	3.19	33	0.05	44	0.03	<5	14.2	<10

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Element	@Sr	@Ti	@V	@W	@Y	@Zn	@Zr	WtKg
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	G_WGH79
Detection Limit	0.5	0.01	2	10	0.5	1	0.5	0.001
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	kg
651001	393	0.06	19	<10	2.1	26	40.2	0.925
651002	22.6	0.02	2	<10	9.1	23	51.4	1.273
*Rep 651002	22.1	0.02	2	<10	9.0	21	51.2	
651005	226	0.67	181	<10	25.2	83	131	1.417
651006	105	0.67	196	<10	21.1	78	92.8	0.919
651018	577	0.09	22	<10	2.7	30	49.5	3.810
651019	203	0.30	91	<10	11.6	30	99.0	1.430
651020	79.9	0.46	265	<10	15.1	60	37.4	1.601
651021	197	0.34	92	<10	17.2	68	102	1.060

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