Certificate of Analysis
Work Order : LK1701476
[Report File No.: 0000011441]

Date: August 22, 2017

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

P.O. No.: South Abitibi TA-2
Project No.: SOUTH ABITIBI TA-2
Samples: 20
Received: Jul 24, 2017
Pages: Page 1 to 10
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
20	G_PRP89	Weigh, Dry, to 3kg, Crush 75% -2mm, Split to 250g, Pulverise to 85% -75µm
20	ZMS_ICM90A	Package Price - GE_ICM90A (GE_IC90A+GE_IC90M)
20	G_WGH79	Weighing of samples and reporting of weights
20	GE_IC90A	@Package, ICPAES after Sodium Peroxide Fusion-Graphite Crucibles
20	GE_IC90M	@Package, ICPMS after Sodium Peroxide Fusion-Graphite Crucibles
20	GO_XRF76V	@Ore grade Borate fusion, XRF (0.5g plus 1g LOI)

Storage: Pulp & Reject

PULP STORAGE : DISCARD
REJECT STORAGE : DISCARD

Comments:

Control quality assays - not suitable for commercial exchange

Certified By : _____
Brett Pipher
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
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	WtKg	@Al	@Ba	@Be	@Ca	@Cr	@Cu	@Fe
Method	G_WGH79	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.001	0.01	10	5	0.1	10	10	0.01
Units	kg	%	ppm	ppm	%	ppm	ppm	%
429701	0.416	4.47	52	<5	4.5	877	203	9.33
429702	0.557	6.97	503	<5	1.5	113	<10	3.20
429703	0.599	8.32	163	<5	7.2	112	180	9.40
429704	0.393	7.69	108	<5	8.2	183	214	9.86
429705	0.656	8.57	502	<5	2.0	81	19	3.09
429706	0.685	7.34	365	<5	1.2	86	11	1.97
429707	0.705	8.28	445	<5	0.6	169	<10	4.32
429708	0.616	9.10	819	<5	3.1	64	14	4.99
429709	0.312	9.10	523	<5	4.5	114	24	2.92
429710	0.358	8.36	302	<5	1.5	97	25	2.34
429711	0.531	7.83	738	<5	7.1	320	148	8.38
429712	0.405	1.99	10	<5	1.6	1828	<10	10.6
429713	0.347	2.24	34	<5	4.1	1309	324	9.23
429714	0.236	8.87	360	<5	1.7	57	93	3.11
429715	0.286	7.04	451	<5	4.8	1097	<10	6.92
429716	0.196	6.51	48	<5	7.3	182	36	11.8
429717	1.563	13.1	90	<5	9.3	75	<10	3.08
429718	0.456	2.71	<10	<5	3.0	894	65	7.65
429719	0.546	2.13	25	<5	7.6	668	<10	9.00
429720	0.514	4.59	118	<5	6.3	797	155	10.1
*Rep 429720		4.50	119	<5	6.2	793	151	9.99

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Element	@K	@Li	@Mg	@Mn	@Ni	@P	@Sc	Si
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.1	10	0.01	10	5	0.01	5	0.1
Units	%	ppm	%	ppm	ppm	%	ppm	%
429701	0.1	28	8.80	1597	759	0.03	27	23.8
429702	1.4	25	0.85	423	11	0.04	8	>30.0
429703	0.7	22	2.95	1482	70	0.05	34	22.7
429704	1.0	33	3.82	1564	153	0.06	37	23.0
429705	2.5	43	1.49	879	18	0.08	10	>30.0
429706	1.2	20	0.66	288	17	0.06	6	>30.0
429707	1.7	33	1.79	759	55	0.06	14	29.9
429708	1.3	38	1.52	1523	22	0.10	12	28.1
429709	2.1	44	1.44	868	24	0.10	12	>30.0
429710	0.9	25	0.98	1424	22	0.07	8	>30.0
429711	1.6	29	4.58	1655	125	0.03	38	23.2
429712	<0.1	<10	18.1	1428	2068	0.01	10	18.0
429713	<0.1	<10	12.4	1492	992	<0.01	32	23.8
429714	1.3	30	1.42	423	45	0.05	11	>30.0
429715	2.5	66	6.26	1352	373	0.03	26	23.3
429716	0.3	16	4.21	1342	112	<0.01	39	22.4
429717	0.4	19	2.22	526	96	0.01	10	21.9
429718	<0.1	14	12.5	1398	755	0.02	25	25.1
429719	0.1	13	10.4	1998	402	0.04	7	23.5
429720	0.6	30	7.34	1447	585	0.06	24	22.5
*Rep 429720	0.6	30	7.19	1416	593	0.06	24	22.5

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Element	@Sr	@Ti	@V	@Zn	@Ag	@As	@Bi	@Cd
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	10	0.01	5	5	1	5	0.1	0.2
Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
429701	49	0.38	193	122	<1	<5	<0.1	<0.2
429702	123	0.28	25	43	<1	<5	0.1	<0.2
429703	207	0.84	308	124	<1	<5	<0.1	0.2
429704	162	0.86	332	419	<1	<5	<0.1	1.1
429705	168	0.33	82	65	<1	<5	<0.1	<0.2
429706	185	0.24	52	34	<1	<5	<0.1	<0.2
429707	126	0.37	104	101	<1	<5	0.2	<0.2
429708	190	0.47	109	79	<1	<5	<0.1	<0.2
429709	335	0.46	111	33	<1	<5	0.2	<0.2
429710	332	0.31	77	74	<1	<5	<0.1	<0.2
429711	216	0.57	295	102	<1	<5	0.3	<0.2
429712	38	0.13	71	138	<1	6	<0.1	<0.2
429713	11	0.26	167	96	<1	<5	<0.1	<0.2
429714	196	0.29	75	76	<1	<5	<0.1	<0.2
429715	83	0.25	143	101	<1	<5	0.4	<0.2
429716	93	0.42	273	64	<1	<5	<0.1	<0.2
429717	300	0.09	47	35	<1	<5	<0.1	<0.2
429718	12	0.25	108	95	<1	<5	<0.1	<0.2
429719	16	0.11	67	162	<1	<5	1.6	<0.2
429720	74	0.72	234	115	<1	<5	<0.1	<0.2
*Rep 429720	72	0.73	231	108	<1	<5	<0.1	<0.2

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Element	@Ce	@Co	@Cs	@Dy	@Er	@Eu	@Ga	@Gd
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.1	0.5	0.1	0.05	0.05	0.05	1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
429701	10.6	64.1	0.5	1.69	1.02	0.46	11	1.69
429702	56.3	5.6	1.4	4.90	3.14	1.00	16	5.12
429703	16.5	38.0	1.3	4.22	2.46	1.12	18	3.95
429704	18.2	52.2	1.5	4.17	2.52	1.10	17	4.07
429705	36.4	11.4	3.3	2.04	1.33	0.84	17	2.21
429706	29.8	3.3	0.9	2.34	1.52	0.67	14	2.19
429707	25.7	13.2	0.7	2.23	1.31	0.76	19	2.12
429708	45.3	13.8	2.5	2.27	1.19	0.96	16	3.13
429709	47.4	11.8	2.7	2.05	1.26	0.98	18	2.65
429710	44.6	6.9	0.8	2.22	1.32	0.92	18	2.97
429711	8.1	38.1	2.0	3.07	1.89	0.73	16	2.76
429712	5.4	104	1.1	0.63	0.35	0.20	4	0.74
429713	5.0	78.8	0.2	1.02	0.64	0.22	7	0.93
429714	15.9	10.0	0.8	1.84	1.09	0.49	17	1.72
429715	4.1	43.1	1.4	1.41	0.91	0.32	11	1.28
429716	12.4	60.2	1.1	3.11	2.06	1.35	14	2.74
429717	8.6	15.4	0.5	0.64	0.39	0.45	19	0.67
429718	6.1	63.3	0.3	1.35	0.94	0.30	6	1.31
429719	43.0	99.2	0.6	1.06	0.61	0.64	7	1.66
429720	39.5	62.8	5.7	3.93	2.20	1.14	12	4.30
*Rep 429720	39.1	62.3	5.9	3.99	2.20	1.15	12	4.33

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Element	@Ge	@Hf	@Ho	@In	@La	@Lu	@Mo	@Nb
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	1	1	0.05	0.2	0.1	0.05	2	1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
429701	2	1	0.35	<0.2	4.7	0.15	<2	2
429702	<1	7	1.03	<0.2	25.2	0.45	6	8
429703	1	2	0.84	<0.2	6.8	0.39	<2	5
429704	2	2	0.85	<0.2	8.3	0.36	<2	6
429705	1	3	0.43	<0.2	17.0	0.19	2	6
429706	2	4	0.49	<0.2	14.6	0.26	5	6
429707	1	5	0.44	<0.2	10.5	0.20	3	6
429708	<1	4	0.42	<0.2	20.7	0.16	3	6
429709	1	3	0.45	<0.2	20.5	0.21	3	5
429710	<1	4	0.45	<0.2	22.2	0.18	4	6
429711	2	1	0.63	<0.2	3.1	0.23	2	2
429712	<1	<1	0.14	<0.2	2.4	0.06	<2	<1
429713	2	<1	0.21	<0.2	1.8	0.09	<2	<1
429714	<1	3	0.39	<0.2	7.5	0.18	2	4
429715	2	1	0.32	<0.2	2.4	0.20	<2	2
429716	2	1	0.68	<0.2	2.9	0.34	<2	2
429717	<1	<1	0.13	<0.2	4.4	<0.05	<2	<1
429718	2	1	0.29	<0.2	1.9	0.13	<2	2
429719	2	<1	0.21	<0.2	20.9	0.11	<2	1
429720	1	3	0.83	<0.2	18.2	0.30	<2	7
*Rep 429720	1	3	0.83	<0.2	18.1	0.35	<2	8

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Element	@Nd	@Pb	@Pr	@Rb	@Sb	@Sm	@Sn	@Ta
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
429701	5.7	<5	1.40	3.8	0.2	1.5	<1	<0.5
429702	25.2	6	6.73	50.8	0.2	5.2	1	0.6
429703	10.7	11	2.36	27.9	0.7	3.1	<1	<0.5
429704	11.1	<5	2.57	50.2	0.3	3.2	2	<0.5
429705	14.1	<5	4.09	119	0.2	2.7	<1	<0.5
429706	11.8	<5	3.36	48.2	0.3	2.3	<1	0.5
429707	13.6	<5	3.62	52.1	0.2	2.9	<1	0.5
429708	19.9	8	5.51	47.7	0.1	3.6	<1	<0.5
429709	21.6	11	5.91	86.0	0.2	3.5	<1	<0.5
429710	19.0	7	5.33	27.1	0.4	3.3	<1	<0.5
429711	6.5	12	1.32	80.9	0.4	2.0	<1	<0.5
429712	3.0	<5	0.73	2.0	0.6	0.7	<1	<0.5
429713	2.4	<5	0.60	0.9	0.1	0.7	<1	<0.5
429714	7.0	7	1.95	39.3	0.1	1.4	<1	<0.5
429715	3.0	<5	0.66	92.9	<0.1	1.1	<1	<0.5
429716	8.9	<5	2.14	11.5	0.2	2.3	3	<0.5
429717	3.6	<5	1.02	18.7	0.2	0.8	<1	<0.5
429718	4.0	<5	0.93	1.4	0.1	1.1	<1	<0.5
429719	17.1	15	4.78	6.7	0.3	2.3	1	<0.5
429720	18.9	<5	4.91	34.0	0.3	4.3	1	<0.5
*Rep 429720	19.2	<5	4.90	33.4	0.3	4.3	1	<0.5

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Element	@Tb	@Th	@Tl	@Tm	@U	@W	@Y	@Yb
Method	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A	GE_ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
429701	0.25	0.7	<0.5	0.16	0.19	<1	10.0	1.0
429702	0.75	5.5	<0.5	0.47	1.11	1	29.1	3.0
429703	0.64	1.1	<0.5	0.35	0.27	7	23.1	2.2
429704	0.63	1.3	<0.5	0.37	0.46	<1	23.8	2.2
429705	0.33	2.1	<0.5	0.20	0.57	1	12.7	1.3
429706	0.35	3.2	<0.5	0.23	0.85	1	14.2	1.5
429707	0.35	6.1	<0.5	0.21	2.20	<1	11.8	1.3
429708	0.42	3.3	<0.5	0.19	0.75	2	11.8	1.2
429709	0.35	2.5	<0.5	0.18	0.61	1	12.6	1.2
429710	0.41	2.5	<0.5	0.20	0.49	<1	13.4	1.2
429711	0.46	0.3	<0.5	0.28	0.07	<1	17.0	1.7
429712	0.10	0.2	<0.5	0.06	0.06	1	3.4	0.3
429713	0.14	0.2	<0.5	0.09	0.06	<1	5.7	0.7
429714	0.26	2.0	<0.5	0.19	0.53	<1	11.1	1.1
429715	0.21	0.5	<0.5	0.15	0.15	<1	8.7	1.0
429716	0.44	0.2	<0.5	0.32	0.19	<1	17.9	2.0
429717	0.09	0.5	<0.5	0.07	0.12	<1	3.8	0.4
429718	0.22	0.6	<0.5	0.15	0.15	<1	8.4	0.9
429719	0.18	0.6	<0.5	0.09	0.15	<1	6.0	0.6
429720	0.63	5.1	<0.5	0.34	1.41	<1	22.1	1.9
*Rep 429720	0.65	5.0	<0.5	0.35	1.42	<1	22.0	2.0

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Element	@Zr	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O
Method	GE_ICM90A	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.5	-10.000	0.01	0.01	0.01	0.01	0.01	0.01
Units	ppm	%	%	%	%	%	%	%
429701	56.6	4.15	51.2	8.41	13.2	14.9	6.14	0.17
429702	273	2.13	71.9	13.0	4.49	1.37	1.93	1.70
429703	76.1	2.96	49.2	15.3	13.4	5.06	9.90	0.81
429704	78.6	2.36	49.0	14.0	13.9	6.38	9.82	1.10
429705	150	2.59	65.7	15.9	4.36	2.49	2.72	3.04
429706	144	1.71	72.2	13.7	2.80	1.13	1.62	1.49
429707	209	2.63	64.6	15.3	6.05	3.03	0.75	2.07
429708	164	2.51	60.3	16.7	7.02	2.56	4.28	1.59
429709	135	2.73	64.8	16.0	3.89	2.34	5.80	2.36
429710	158	1.58	68.4	15.6	3.32	1.67	1.97	1.03
429711	48.7	2.51	49.5	14.2	11.7	7.72	9.57	1.91
429712	16.2	10.5	38.2	3.74	15.0	30.4	2.25	0.04
429713	16.4	4.23	51.0	4.26	13.2	20.9	5.72	0.03
429714	120	1.84	65.5	16.3	4.29	2.36	2.25	1.48
429715	44.9	3.72	50.5	13.1	9.85	10.8	6.70	3.00
429716	36.6	1.30	48.9	12.2	16.9	7.14	10.1	0.40
429717	15.8	3.77	48.2	24.5	4.43	3.74	13.0	0.52
429718	38.8	4.61	53.8	5.12	10.8	21.1	4.12	0.05
429719	26.1	3.42	51.5	4.04	13.0	17.7	10.5	0.10
429720	103	3.13	49.1	8.59	14.4	12.5	8.60	0.65
*Rep 429720	105							

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Element	@Na2O	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0
Units	%	%	%	%	%	%	%
429701	1.21	0.67	0.21	0.07	0.15	0.03	100.5
429702	3.60	0.48	0.04	0.09	0.02	<0.01	100.8
429703	2.35	1.41	0.19	0.12	0.01	0.05	100.8
429704	2.28	1.42	0.20	0.12	0.03	0.07	100.8
429705	2.81	0.55	0.12	0.17	0.02	<0.01	100.4
429706	4.40	0.41	0.03	0.14	0.01	<0.01	99.6
429707	5.28	0.62	0.09	0.14	0.02	0.02	100.6
429708	4.19	0.80	0.20	0.23	<0.01	0.02	100.4
429709	1.33	0.74	0.10	0.23	0.02	0.03	100.4
429710	5.52	0.52	0.19	0.17	0.02	0.01	100.0
429711	1.99	0.96	0.22	0.07	0.05	0.05	100.5
429712	0.18	0.22	0.18	0.03	0.29	0.01	101.0
429713	0.21	0.44	0.20	0.02	0.20	0.03	100.4
429714	5.34	0.48	0.05	0.12	<0.01	0.01	99.9
429715	1.97	0.41	0.19	0.07	0.16	0.03	100.5
429716	2.64	0.72	0.18	<0.01	0.03	0.05	100.6
429717	2.31	0.15	0.06	0.03	0.02	0.01	100.7
429718	0.25	0.42	0.19	0.04	0.13	0.02	100.7
429719	0.22	0.17	0.28	0.10	0.09	<0.01	101.1
429720	2.03	1.23	0.19	0.14	0.12	0.04	100.8

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