Certificate of Analysis
Work Order : SD180102
[Report File No.: 0000033558]

Date: January 08, 2019

To: **JASON JESSUP**
URSA MAJOR MINERALS INCORPORATED
45 OAK ST
DOWLING ON P0M 1R0

P.O. No.: SHAKESPEARE / TEST: 43 Samples
Project No.: SHAKESPEARE
Samples: 43
Received: Nov 8, 2018
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
43	G_LOG02	Pre-preparation processing, sorting, logging, boxing
43	G_WGH79	Weighing of samples and reporting of weights
40	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
43	G_PUL45	Pulverize 250g, Cr Steel, 85% passing 75 microns
43	GE_FAI313	@Au, Pt, Pd, FAS, ICP-AES, 30g - 5ml (Clean Pots only)
43	GE_IMS90A	Sodium Peroxide fusion/ICP-MS package(34 elements)
43	G_SHIP	Shipping

Comments:

Sample prep performed in Sudbury.
Results in 2 decimal places for S in GE_IMS90A are informational only.

Certified By : _____
Gerald Chik
Operations Manager/Chief 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	WtKg	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	1	10	1	1	0.01	3	10
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
S00354078	2.624	15	<10	<1	<1	5.33	71	420
S00354079	1.475	<1	<10	<1	<1	2.93	<3	350
S00354080	0.690	<1	<10	<1	<1	3.03	<3	350
S00354081	2.333	<1	<10	5	<1	9.67	6	120
S00354082	0.782	3	<10	6	<1	9.86	402	80
S00354083	2.375	3	10	16	<1	10.9	39	70
S00354084	2.597	<1	<10	3	<1	9.53	17	50
S00354085	1.238	37	50	79	<1	10.4	392	90
S00354086	2.318	57	210	254	<1	9.73	690	60
S00354087	2.569	14	170	284	<1	9.14	570	50
S00354088	1.804	18	160	153	<1	8.61	118	60
S00354089	2.747	34	380	251	<1	7.96	133	60
S00354090	0.631	<1	<10	<1	<1	0.09	<3	20
S00354091	2.639	54	220	152	2	8.14	66	90
S00354092	2.386	81	130	147	<1	7.60	86	130
S00354093	1.745	76	110	129	<1	8.16	31	160
S00354094	0.762	557	310	500	5	6.82	249	120
S00354095	2.519	175	250	253	<1	7.79	78	160
S00354096	1.932	140	520	349	<1	7.42	176	140
S00354097	1.092	70	160	118	<1	7.60	101	190
S00354098	2.479	191	300	248	<1	8.83	105	250
S00354099	2.245	175	180	275	<1	9.73	74	320
S00354100	0.067	<1	<10	1	<1	9.54	<3	620
S00354101	1.927	16	30	30	<1	10.3	6	330
S00354102	2.221	<1	<10	<1	<1	9.45	<3	310
S00354103	2.953	<1	<10	<1	<1	9.47	4	280
S00354104	1.850	27	100	76	<1	10.1	6	320
S00354105	2.392	18	60	45	<1	9.49	5	350
S00354106	2.467	<1	<10	<1	<1	10.3	4	340
S00354107	1.321	<1	<10	<1	<1	9.57	<3	310
S00354108	2.519	<1	<10	2	<1	10.3	<3	330
S00354109	1.978	1	<10	2	<1	8.83	<3	300
S00354110	0.117	<1	<10	1	<1	9.25	4	600
S00354111	2.758	50	80	76	<1	9.60	36	290
S00354112	2.423	2	<10	7	<1	10.1	7	250
S00354113	2.606	<1	<10	<1	<1	9.76	<3	260
S00354114	2.255	<1	<10	3	<1	10.1	<3	250
S00354115	2.047	17	70	63	<1	9.41	5	210
S00354116	2.484	9	50	56	<1	9.69	8	240
*Dup S00354116	<0.010	7	60	62	<1	10.1	7	250

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Element	WtKg	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	1	10	1	1	0.01	3	10
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
S00354117	2.591	5	20	37	<1	9.71	12	210
S00354118	2.364	3	20	25	<1	9.33	5	180
S00354119	2.849	<1	<10	9	<1	9.11	7	210
S00354120	0.101	89	440	580	<1	3.03	213	80
*Rep S00354098		178	280	250				
*Rep S00354102		<1	<10	<1				
*Std PGMS25		478	400	1870				
*Blk BLANK		<1	<10	<1				
*Rep S00354096					<1	7.16	172	140
*Std OREAS680					8	7.64	110	710
*Blk BLANK					<1	<0.01	<3	<10

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Element	Be	Bi	Ca	Cd	Co	Cr	Cs	Cu
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
S00354078	<1	0.9	<0.1	<0.2	7.3	73	0.9	25
S00354079	<1	0.1	<0.1	<0.2	3.4	50	0.8	5
S00354080	<1	0.1	<0.1	<0.2	3.4	48	0.8	6
S00354081	2	<0.1	0.6	<0.2	20.8	237	0.2	47
S00354082	1	1.3	0.4	0.2	111	252	0.2	140
S00354083	1	0.1	0.6	<0.2	26.7	497	0.5	12
S00354084	2	0.2	3.1	<0.2	24.9	118	0.6	21
S00354085	1	2.2	2.7	<0.2	31.6	239	0.3	19
S00354086	1	13.1	2.0	<0.2	105	647	0.3	1080
S00354087	2	1.8	2.4	0.2	212	619	0.2	1070
S00354088	1	1.7	3.0	0.2	183	557	0.3	1780
S00354089	1	5.2	3.1	<0.2	419	506	0.4	3090
S00354090	<1	<0.1	>25.0	<0.2	1.7	8	<0.1	10
S00354091	1	3.7	3.1	<0.2	231	403	0.8	2630
S00354092	1	5.2	3.8	<0.2	218	304	1.9	2240
S00354093	1	3.9	4.1	<0.2	147	263	2.2	1430
S00354094	<1	10.6	4.1	1.3	363	263	1.4	23800
S00354095	<1	8.5	3.8	0.2	258	405	2.2	2420
S00354096	<1	10.6	3.4	<0.2	485	281	1.7	1240
S00354097	<1	2.9	3.4	0.4	95.7	107	2.2	2000
S00354098	1	8.8	4.2	<0.2	97.4	85	2.5	903
S00354099	1	10.2	4.4	0.3	98.0	80	3.5	1820
S00354100	<1	0.1	4.7	<0.2	14.0	24	0.8	102
S00354101	1	1.1	5.1	<0.2	31.9	97	2.7	286
S00354102	1	0.3	4.8	<0.2	34.4	92	2.7	198
S00354103	1	0.3	4.8	<0.2	38.3	141	2.6	171
S00354104	1	2.7	4.6	<0.2	64.6	182	3.0	378
S00354105	1	1.5	4.6	<0.2	47.1	153	3.5	447
S00354106	1	0.3	4.9	<0.2	36.4	217	2.8	191
S00354107	1	0.2	4.3	<0.2	35.1	197	3.0	264
S00354108	1	0.4	5.1	<0.2	47.0	264	3.2	263
S00354109	1	0.4	4.0	<0.2	35.4	179	2.6	394
S00354110	<1	<0.1	4.7	<0.2	13.7	37	0.7	104
S00354111	1	2.6	4.6	<0.2	60.4	203	3.6	645
S00354112	1	0.6	4.8	<0.2	38.8	188	3.8	402
S00354113	1	0.3	4.3	<0.2	41.4	197	3.9	146
S00354114	1	0.3	5.3	<0.2	46.8	180	3.3	226
S00354115	1	1.1	4.8	<0.2	66.0	200	2.6	404
S00354116	<1	0.6	5.3	<0.2	71.3	202	1.8	376
*Dup S00354116	<1	0.7	5.4	<0.2	73.1	203	1.8	367

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
S00354117	<1	0.6	5.5	<0.2	61.3	213	1.5	332
S00354118	<1	0.3	5.0	<0.2	44.7	172	1.8	240
S00354119	1	0.3	5.3	<0.2	42.4	155	2.0	191
S00354120	<1	<0.1	3.5	0.3	188	3060	2.1	2690
*Rep S00354096	<1	11.4	3.3	<0.2	453	278	1.7	1150
*Std OREAS680	1	1.6	6.0	7.7	309	2130	3.5	9310
*Blk BLANK	<1	<0.1	<0.1	<0.2	<0.5	<5	<0.1	<2

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Element	Fe	K	La	Li	Mg	Mn	Mo	Ni
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
S00354078	1.15	3.7	13.0	7	0.29	50	2	30
S00354079	1.28	2.8	16.5	<5	0.19	80	2	16
S00354080	1.09	2.7	14.5	<5	0.20	60	<2	16
S00354081	6.15	0.4	30.3	17	3.02	480	3	191
S00354082	6.12	0.3	36.7	16	2.88	480	4	621
S00354083	7.63	0.3	210	23	4.57	720	3	336
S00354084	7.98	0.3	29.7	15	3.83	750	<2	214
S00354085	8.06	0.4	155	20	4.35	710	8	640
S00354086	11.0	0.3	108	18	4.52	640	42	4110
S00354087	10.2	0.2	21.1	17	4.51	710	27	2150
S00354088	10.5	0.2	19.1	13	3.50	680	20	2360
S00354089	16.5	0.3	17.1	11	3.01	690	60	6970
S00354090	0.29	<0.1	1.3	<5	2.85	130	<2	20
S00354091	11.5	0.4	22.1	12	2.70	740	30	3470
S00354092	11.9	0.7	20.2	11	2.74	870	36	2860
S00354093	10.6	0.8	19.2	12	2.73	970	15	1530
S00354094	15.9	0.6	13.8	12	2.96	960	31	5080
S00354095	13.4	0.8	17.4	15	3.14	1100	21	3910
S00354096	18.0	0.7	13.3	15	3.14	1050	50	7270
S00354097	9.75	1.0	18.0	17	3.40	1160	5	939
S00354098	8.35	1.1	21.4	14	2.37	980	3	1460
S00354099	8.73	1.5	19.7	16	2.48	870	3	1780
S00354100	4.99	1.4	11.2	8	1.60	1060	5	16
S00354101	7.07	1.4	18.9	17	2.56	870	<2	194
S00354102	7.02	1.4	21.2	16	2.60	890	<2	39
S00354103	7.12	1.2	24.0	17	2.63	850	<2	41
S00354104	7.77	1.4	24.9	17	2.53	820	2	520
S00354105	7.30	1.7	30.3	17	2.56	860	<2	291
S00354106	7.66	1.5	19.2	19	3.01	950	<2	69
S00354107	6.74	1.5	26.0	17	2.63	800	<2	39
S00354108	7.81	1.6	22.7	21	2.81	870	<2	97
S00354109	7.30	1.6	26.6	25	2.56	890	<2	98
S00354110	4.90	1.4	12.2	8	1.63	1050	5	21
S00354111	8.20	1.5	21.8	18	2.62	900	<2	566
S00354112	7.91	1.5	22.9	20	2.70	930	<2	125
S00354113	7.74	1.5	22.1	19	2.67	890	<2	68
S00354114	7.25	1.4	20.7	16	2.60	860	<2	96
S00354115	7.98	1.2	22.7	16	2.81	940	<2	380
S00354116	8.50	1.1	16.2	16	3.33	1040	3	334
*Dup S00354116	8.38	1.2	15.3	17	3.34	1040	<2	333

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Element	Fe	K	La	Li	Mg	Mn	Mo	Ni
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
S00354117	7.89	1.1	14.0	16	4.08	1060	<2	272
S00354118	8.06	1.0	18.2	17	3.95	1120	<2	133
S00354119	7.49	1.2	17.0	16	3.85	1110	<2	137
S00354120	11.0	0.2	3.6	27	15.6	1400	<2	4040
*Rep S00354096	17.6	0.7	13.2	16	3.00	1000	44	7260
*Std OREAS680	11.9	1.3	17.2	13	3.57	1310	3	20700
*Blk BLANK	<0.01	<0.1	<0.1	<5	<0.01	<10	<2	<5

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Element	P	Pb	S	Sb	Si	Sn	Sr	Te
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
S00354078	0.02	6	<1.00	<1	33.9	<1	20	<1
S00354079	0.01	8	<1.00	<1	>40.0	<1	30	<1
S00354080	0.01	8	<1.00	<1	38.9	<1	30	<1
S00354081	0.03	8	<1.00	<1	28.3	<1	60	<1
S00354082	0.02	13	<1.00	<1	26.8	<1	40	<1
S00354083	0.02	8	<1.00	<1	22.2	<1	40	<1
S00354084	0.05	25	<1.00	<1	22.6	2	80	<1
S00354085	0.04	25	<1.00	<1	21.5	<1	90	1
S00354086	0.04	39	2.12	<1	21.3	<1	60	10
S00354087	0.04	21	1.25	<1	23.5	<1	60	2
S00354088	0.03	20	2.00	<1	22.4	<1	90	2
S00354089	0.03	23	5.64	<1	21.0	<1	100	5
S00354090	<0.01	<2	<1.00	<1	3.4	<1	60	<1
S00354091	0.05	24	2.90	<1	22.8	<1	130	3
S00354092	0.04	19	2.62	<1	23.7	<1	150	4
S00354093	0.04	16	1.40	<1	24.4	<1	180	2
S00354094	0.03	17	5.68	<1	21.0	<1	140	6
S00354095	0.03	10	2.96	<1	22.4	<1	160	4
S00354096	0.03	9	6.03	<1	20.4	<1	140	6
S00354097	0.03	8	<1.00	<1	25.1	<1	130	1
S00354098	0.04	13	<1.00	<1	23.2	<1	210	4
S00354099	0.04	13	1.19	<1	24.9	1	210	4
S00354100	0.05	8	<1.00	<1	27.1	<1	500	<1
S00354101	0.04	12	<1.00	<1	25.0	1	230	<1
S00354102	0.04	11	<1.00	<1	25.5	1	190	<1
S00354103	0.04	11	<1.00	<1	24.7	1	200	<1
S00354104	0.03	11	<1.00	<1	23.4	1	190	1
S00354105	0.05	10	<1.00	<1	25.2	2	190	<1
S00354106	0.03	10	<1.00	<1	24.3	1	190	<1
S00354107	0.05	10	<1.00	<1	26.4	1	180	<1
S00354108	0.04	11	<1.00	<1	25.0	1	200	<1
S00354109	0.05	10	<1.00	<1	26.1	2	180	<1
S00354110	0.05	7	<1.00	<1	27.2	1	500	<1
S00354111	0.04	10	<1.00	<1	25.0	1	180	1
S00354112	0.04	10	<1.00	<1	26.2	1	200	<1
S00354113	0.04	10	<1.00	<1	24.5	<1	170	<1
S00354114	0.03	12	<1.00	<1	24.9	1	200	<1
S00354115	0.04	9	<1.00	<1	24.9	<1	180	<1
S00354116	0.03	8	<1.00	<1	22.9	<1	170	<1
*Dup S00354116	0.02	9	<1.00	<1	23.2	<1	170	<1

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Final : SD180102 Order: SHAKESPEARE / TEST: 43 Samples

Report File No.: 0000033558

Element	P	Pb	S	Sb	Si	Sn	Sr	Te
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
S00354117	0.02	8	<1.00	<1	23.4	<1	150	<1
S00354118	0.02	8	<1.00	<1	23.5	<1	140	<1
S00354119	0.03	8	<1.00	<1	23.5	<1	140	<1
S00354120	0.03	5	1.51	4	16.9	<1	20	1
*Rep S00354096	0.02	9	5.90	<1	19.8	<1	130	6
*Std OREAS680	0.12	2560	4.50	17	19.1	2	400	<1
*Blk BLANK	<0.01	<2	<1.00	<1	<0.1	<1	<10	<1

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Final : SD180102 Order: SHAKESPEARE / TEST: 43 Samples

Report File No.: 0000033558

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
S00354078	0.13	26	<5	7.0	0.7	12
S00354079	0.04	7	<5	4.4	0.4	<5
S00354080	0.04	8	<5	4.2	0.4	5
S00354081	0.41	179	<5	18.5	2.1	70
S00354082	0.33	117	<5	13.9	1.6	130
S00354083	0.40	298	<5	22.2	1.9	107
S00354084	1.01	282	<5	22.0	2.3	107
S00354085	1.14	332	<5	25.4	2.4	106
S00354086	0.43	365	<5	12.7	1.3	87
S00354087	0.42	373	<5	16.1	1.7	78
S00354088	0.42	315	<5	15.4	1.6	58
S00354089	0.45	297	<5	14.3	1.4	58
S00354090	<0.01	<5	<5	2.4	<0.1	<5
S00354091	0.58	271	<5	19.2	1.9	67
S00354092	0.63	287	<5	20.6	2.2	70
S00354093	0.55	281	<5	19.1	2.0	77
S00354094	0.39	261	<5	12.7	1.5	210
S00354095	0.50	275	<5	14.1	1.5	92
S00354096	0.38	324	<5	11.9	1.2	77
S00354097	0.65	323	<5	17.8	2.0	108
S00354098	0.75	268	<5	17.7	2.0	73
S00354099	0.45	234	<5	17.3	1.6	75
S00354100	0.29	129	<5	19.4	2.2	64
S00354101	0.46	232	<5	16.2	1.6	63
S00354102	0.46	248	<5	18.1	1.9	64
S00354103	0.43	261	<5	18.6	1.9	62
S00354104	0.43	276	<5	17.3	1.7	64
S00354105	0.43	250	14	22.3	2.4	62
S00354106	0.47	272	<5	15.3	1.6	72
S00354107	0.37	224	<5	19.5	1.9	64
S00354108	0.43	283	<5	17.2	1.7	64
S00354109	0.58	225	<5	22.4	2.3	72
S00354110	0.28	130	<5	19.2	2.2	68
S00354111	0.52	241	<5	17.6	2.0	72
S00354112	0.50	262	<5	19.0	1.9	76
S00354113	0.42	242	<5	17.3	1.7	64
S00354114	0.36	202	<5	16.5	1.7	61
S00354115	0.38	220	<5	19.0	1.9	63
S00354116	0.51	230	<5	12.9	1.4	70
*Dup S00354116	0.49	224	<5	12.7	1.4	71

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Final : SD180102 Order: SHAKESPEARE / TEST: 43 Samples

Report File No.: 0000033558

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
S00354117	0.34	200	<5	12.9	1.3	74
S00354118	0.38	204	<5	12.9	1.5	82
S00354119	0.37	204	<5	13.8	1.4	81
S00354120	0.30	128	<5	7.8	0.8	119
*Rep S00354096	0.37	317	<5	11.6	1.4	78
*Std OREAS680	0.47	210	<5	14.3	1.5	2410
*Blk BLANK	<0.01	<5	<5	<0.5	<0.1	<5

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