Certificate of Analysis
Work Order : SD180103
[Report File No.: 0000033563]

Date: January 08, 2019

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

P.O. No.: SHAKESPEARE / TEST: 45 Samples
Project No.: SHAKESPEARE
Samples: 45
Received: Nov 8, 2018
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
45	G_LOG02	Pre-preparation processing, sorting, logging, boxing
45	G_WGH79	Weighing of samples and reporting of weights
43	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
45	G_PUL45	Pulverize 250g, Cr Steel, 85% passing 75 microns
45	GE_FAI313	@Au, Pt, Pd, FAS, ICP-AES, 30g - 5ml (Clean Pots only)
45	GE_IMS90A	Sodium Peroxide fusion/ICP-MS package(34 elements)
1	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
45	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
S00354121	2.860	6	20	39	<1	8.48	5	180
S00354122	2.636	5	20	36	<1	8.67	17	180
S00354123	2.177	4	20	45	<1	8.42	24	130
S00354124	3.115	2	10	33	<1	8.65	7	170
S00354125	2.314	<1	20	23	<1	8.91	12	150
S00354126	2.712	1	10	12	<1	9.45	6	180
S00354127	2.872	1	<10	7	<1	8.89	4	180
S00354128	1.753	<1	<10	3	<1	8.02	7	150
S00354129	1.141	2	<10	6	<1	7.90	<3	180
S00354130	0.927	2	<10	6	<1	7.60	<3	190
S00354131	2.612	<1	<10	5	<1	8.69	22	190
S00354132	1.030	11	70	47	<1	7.74	12	160
S00354133	0.975	20	220	206	<1	4.77	22	110
S00354134	2.067	3	20	15	<1	7.95	17	190
S00354135	2.127	279	330	316	2	6.64	118	180
S00354136	2.667	148	180	178	<1	6.47	55	150
S00354137	1.481	2	<10	19	<1	8.04	29	140
S00354138	2.855	2	<10	5	<1	7.60	14	140
S00354139	2.619	9	50	29	<1	7.94	<3	160
S00354140	0.942	1	<10	<1	3	0.08	9	20
S00354141	2.868	20	30	68	<1	8.40	18	150
S00354142	2.964	13	20	52	<1	8.94	12	160
S00354143	2.638	9	20	38	<1	9.30	22	170
S00354144	2.612	27	50	65	<1	9.11	42	170
S00354145	2.749	7	30	44	<1	9.34	10	170
S00354146	2.437	5	30	30	<1	9.02	8	120
S00354147	2.685	23	110	64	<1	8.21	8	140
S00354148	2.575	19	110	39	<1	8.93	23	150
S00354149	2.495	5	50	58	<1	8.97	16	180
S00354150	0.110	240	840	3590	4	5.72	17	110
S00354151	2.291	<1	<10	14	<1	9.03	5	190
S00354152	2.802	<1	<10	11	<1	8.45	10	170
S00354153	1.233	1	10	13	<1	8.34	15	140
S00354154	1.319	<1	<10	16	<1	8.52	14	140
S00354155	5.187	<1	<10	12	<1	8.72	22	140
S00354156	1.977	2	10	19	<1	9.87	42	180
S00354157	2.332	3	10	12	<1	8.28	29	150
S00354158	2.279	10	50	37	<1	9.70	17	230
S00354159	3.282	3	40	50	<1	9.39	61	180
*Dup S00354159	<0.010	3	30	49	<1	9.08	17	180

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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
S00354160	0.138	<1	<10	1	<1	9.21	5	660
S00354161	1.968	<1	20	21	<1	8.79	13	200
S00354162	1.852	<1	10	14	<1	9.53	6	160
S00354163	0.840	3	20	45	<1	9.44	4	70
S00354164	2.368	<1	10	14	<1	8.55	<3	140
S00354165	1.080	<1	<10	7	<1	8.06	6	150
*Rep S00354133		18	210	194				
*Rep S00354159		4	30	49				
*Std OREAS680		169	440	237				
*Blk BLANK		<1	<10	<1				
*Rep S00354121					<1	8.71	5	180
*Std OREAS680					10	7.18	129	700
*Std OREAS70B					<1	3.97	155	190
*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
S00354121	<1	0.3	4.2	<0.2	44.0	158	2.6	194
S00354122	<1	0.4	3.9	<0.2	46.7	161	2.3	209
S00354123	<1	0.4	4.7	<0.2	54.0	155	2.3	130
S00354124	<1	0.4	5.1	<0.2	49.6	208	3.5	79
S00354125	<1	0.3	4.7	<0.2	46.0	334	2.7	38
S00354126	<1	0.4	4.7	<0.2	68.7	350	2.3	358
S00354127	1	0.3	4.3	<0.2	64.7	302	3.7	245
S00354128	<1	0.2	4.2	<0.2	46.6	156	5.3	199
S00354129	<1	0.3	4.5	<0.2	52.2	172	7.0	200
S00354130	<1	0.2	4.1	0.4	52.3	161	7.1	197
S00354131	1	0.2	4.6	<0.2	52.5	183	4.8	229
S00354132	<1	1.1	4.3	0.2	145	180	3.4	708
S00354133	<1	4.1	2.9	1.4	794	260	2.4	1310
S00354134	<1	0.4	4.7	<0.2	60.6	168	6.9	146
S00354135	<1	9.7	3.9	0.7	150	251	5.6	2850
S00354136	<1	6.0	3.8	0.4	164	344	5.2	1840
S00354137	1	0.4	4.2	<0.2	90.6	210	2.1	345
S00354138	<1	0.3	4.2	<0.2	63.2	256	2.3	309
S00354139	<1	0.4	4.5	0.2	66.8	208	2.3	610
S00354140	<1	<0.1	>25.0	0.2	1.1	<5	<0.1	4
S00354141	<1	0.5	4.9	<0.2	54.8	126	0.9	429
S00354142	<1	0.4	5.2	<0.2	46.3	112	0.9	386
S00354143	<1	0.4	4.8	<0.2	39.9	94	1.0	160
S00354144	<1	0.6	5.4	0.4	65.1	69	0.9	1490
S00354145	<1	0.4	5.0	0.2	46.2	61	0.9	276
S00354146	<1	0.3	5.7	0.3	46.9	73	0.8	210
S00354147	<1	0.5	6.0	0.3	47.3	99	0.7	513
S00354148	<1	0.4	6.1	0.3	54.4	124	0.8	623
S00354149	<1	0.3	6.3	<0.2	43.2	140	1.0	158
S00354150	<1	1.2	3.6	2.3	1000	307	0.7	16100
S00354151	<1	0.2	6.7	0.3	45.9	145	1.0	84
S00354152	<1	0.2	6.9	<0.2	46.4	107	1.0	114
S00354153	<1	0.2	7.5	<0.2	45.0	98	0.9	140
S00354154	<1	0.2	7.5	<0.2	40.4	114	0.8	93
S00354155	<1	0.2	7.1	0.3	47.3	193	0.5	116
S00354156	<1	0.3	6.6	<0.2	42.1	156	0.7	86
S00354157	<1	0.3	6.5	0.3	57.1	209	0.6	185
S00354158	<1	0.4	6.5	0.3	48.0	186	0.8	225
S00354159	<1	0.3	6.6	<0.2	45.6	164	0.8	127
*Dup S00354159	<1	0.3	6.6	<0.2	44.7	159	0.7	122

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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
S00354160	<1	0.1	4.3	<0.2	13.6	31	0.8	91
S00354161	<1	0.2	6.2	<0.2	45.4	162	0.9	69
S00354162	<1	0.2	5.3	<0.2	39.8	122	0.8	46
S00354163	<1	0.2	2.8	<0.2	52.0	201	0.6	181
S00354164	<1	0.2	6.2	<0.2	40.1	88	1.1	74
S00354165	<1	0.1	7.4	<0.2	48.1	55	0.9	122
*Rep S00354121	<1	0.3	4.2	<0.2	42.8	150	2.6	184
*Std OREAS680	1	1.7	5.6	8.3	304	2110	4.0	9100
*Std OREAS70B	1	1.0	3.0	0.5	74.5	1200	3.2	48
*Blk BLANK	<1	<0.1	<0.1	<0.2	<0.5	<5	<0.1	<2

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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
S00354121	8.10	0.9	16.8	19	4.02	1060	<2	118
S00354122	8.32	0.8	16.5	22	3.84	1010	<2	116
S00354123	8.82	0.6	15.4	18	3.94	1190	<2	132
S00354124	8.70	1.0	16.7	19	4.03	1150	<2	96
S00354125	8.05	0.9	16.6	18	3.61	1050	<2	75
S00354126	8.67	0.8	19.5	19	3.26	990	3	245
S00354127	8.44	1.0	21.6	19	3.17	1010	2	192
S00354128	8.82	1.1	23.0	21	2.94	1110	<2	70
S00354129	10.1	1.4	21.5	23	3.49	1370	<2	85
S00354130	9.66	1.4	20.2	23	3.35	1350	<2	82
S00354131	8.20	1.1	22.8	18	2.57	1130	<2	139
S00354132	11.6	1.1	15.8	19	3.26	1250	2	1580
S00354133	>25.0	0.7	12.3	14	2.41	940	67	10700
S00354134	9.53	1.4	18.7	20	3.50	1340	13	181
S00354135	11.7	1.2	17.0	19	4.01	1400	7	2370
S00354136	12.5	1.1	16.5	19	4.51	1430	10	1740
S00354137	8.88	0.7	18.9	18	3.77	1220	<2	529
S00354138	9.07	0.8	18.3	19	4.74	1360	<2	167
S00354139	9.03	0.8	17.0	18	4.80	1370	<2	340
S00354140	0.34	<0.1	1.4	<5	3.05	140	<2	12
S00354141	7.81	0.7	13.6	16	4.64	1230	<2	208
S00354142	7.17	0.7	13.7	16	4.32	1140	<2	169
S00354143	6.96	0.8	16.4	16	4.08	1080	<2	135
S00354144	7.14	0.8	17.5	14	3.99	1060	<2	392
S00354145	7.01	0.8	16.7	16	3.98	1100	<2	113
S00354146	7.58	0.5	14.7	14	4.05	1220	<2	100
S00354147	7.53	0.5	13.6	12	4.30	1240	<2	136
S00354148	7.39	0.6	11.5	13	4.16	1170	<2	250
S00354149	7.02	0.8	12.5	13	4.16	1160	<2	104
S00354150	18.5	0.3	8.0	10	4.08	1100	9	46000
S00354151	7.71	0.7	10.5	13	4.26	1250	<2	91
S00354152	7.42	0.7	11.6	11	4.15	1210	<2	88
S00354153	7.29	0.5	12.3	9	3.97	1230	<2	90
S00354154	7.02	0.6	13.1	8	4.23	1220	<2	84
S00354155	7.04	0.5	10.8	10	4.69	1190	<2	102
S00354156	7.00	0.7	8.4	13	4.40	1110	<2	102
S00354157	7.97	0.5	8.3	14	6.17	1340	<2	155
S00354158	7.09	0.8	8.3	14	4.76	1130	<2	170
S00354159	7.05	0.6	10.9	11	4.27	1160	2	103
*Dup S00354159	7.05	0.6	11.0	11	4.39	1160	<2	97

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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
S00354160	4.94	1.2	13.7	9	1.66	1030	6	16
S00354161	7.31	0.7	10.6	13	4.68	1200	<2	100
S00354162	7.21	0.5	12.2	16	4.19	1070	<2	80
S00354163	8.06	0.2	21.3	23	4.17	950	<2	130
S00354164	7.54	0.5	13.5	12	4.09	1150	<2	84
S00354165	7.62	0.6	10.9	9	4.29	1280	<2	107
*Rep S00354121	8.29	0.9	17.2	19	3.98	1050	<2	117
*Std OREAS680	12.1	1.1	19.5	14	3.54	1300	4	21200
*Std OREAS70B	5.53	0.5	15.4	36	14.8	1190	3	2230
*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
S00354121	0.02	7	<1.00	<1	24.2	<1	140	<1
S00354122	0.03	6	<1.00	<1	24.0	<1	140	<1
S00354123	0.02	7	<1.00	<1	23.4	<1	150	<1
S00354124	0.03	7	<1.00	<1	24.6	<1	170	<1
S00354125	0.03	7	<1.00	<1	24.2	<1	170	<1
S00354126	0.03	7	<1.00	<1	23.8	<1	190	<1
S00354127	0.03	8	<1.00	<1	24.5	<1	180	<1
S00354128	0.04	8	<1.00	<1	25.7	<1	160	<1
S00354129	0.04	7	<1.00	<1	25.4	<1	130	<1
S00354130	0.03	13	<1.00	<1	24.6	<1	130	<1
S00354131	0.04	8	<1.00	<1	24.8	<1	200	<1
S00354132	0.03	6	1.69	<1	23.3	<1	150	<1
S00354133	0.02	6	12.74	<1	15.9	<1	80	5
S00354134	0.03	6	<1.00	<1	24.0	<1	150	<1
S00354135	0.03	6	1.44	<1	22.7	<1	100	4
S00354136	0.03	4	1.64	<1	23.2	<1	90	2
S00354137	0.03	6	<1.00	<1	24.7	<1	150	<1
S00354138	0.03	5	<1.00	<1	24.8	<1	110	<1
S00354139	0.03	6	<1.00	<1	23.7	<1	120	<1
S00354140	<0.01	14	<1.00	<1	4.1	<1	60	<1
S00354141	0.02	6	<1.00	<1	23.1	<1	150	<1
S00354142	0.03	7	<1.00	<1	24.1	<1	170	<1
S00354143	0.03	8	<1.00	<1	24.2	<1	170	<1
S00354144	0.07	7	<1.00	<1	23.1	<1	180	<1
S00354145	0.04	7	<1.00	<1	24.1	<1	170	<1
S00354146	0.02	7	<1.00	<1	23.8	<1	180	<1
S00354147	0.02	7	<1.00	<1	23.7	<1	170	<1
S00354148	0.02	8	<1.00	<1	23.4	<1	190	<1
S00354149	0.02	7	<1.00	<1	23.3	<1	190	<1
S00354150	0.04	14	9.14	3	15.5	<1	170	5
S00354151	0.02	7	<1.00	<1	22.9	<1	190	<1
S00354152	0.02	8	<1.00	<1	24.0	<1	190	<1
S00354153	0.02	11	<1.00	<1	24.2	<1	200	<1
S00354154	0.02	9	<1.00	<1	23.4	<1	200	<1
S00354155	0.02	8	<1.00	<1	23.9	<1	200	<1
S00354156	0.02	8	<1.00	<1	23.1	<1	220	<1
S00354157	0.02	6	<1.00	<1	22.7	<1	160	<1
S00354158	0.02	8	<1.00	<1	23.1	<1	200	<1
S00354159	0.03	8	<1.00	<1	23.6	<1	210	<1
*Dup S00354159	0.02	7	<1.00	<1	23.8	<1	210	<1

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Final : SD180103 Order: SHAKESPEARE / TEST: 45 Samples

Report File No.: 0000033563

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
S00354160	0.06	7	<1.00	<1	28.7	<1	530	<1
S00354161	0.03	6	<1.00	<1	23.5	<1	180	<1
S00354162	0.02	7	<1.00	<1	24.1	<1	200	<1
S00354163	<0.01	7	<1.00	<1	25.3	<1	150	<1
S00354164	0.02	7	<1.00	<1	23.8	<1	200	<1
S00354165	0.03	7	<1.00	<1	23.7	<1	200	<1
*Rep S00354121	0.02	7	<1.00	<1	23.7	<1	140	<1
*Std OREAS680	0.12	2620	5.98	20	20.7	<1	460	<1
*Std OREAS70B	0.02	13	<1.00	<1	22.2	<1	70	<1
*Blk BLANK	<0.01	<2	<1.00	<1	0.2	<1	<10	<1

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Final : SD180103 Order: SHAKESPEARE / TEST: 45 Samples

Report File No.: 0000033563

Element	Ti	V	W	Y	Yb	Zn	Fe
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GO_ICP90Q
Det.Lim.	0.01	5	5	0.5	0.1	5	0.05
Units	%	ppm	ppm	ppm	ppm	ppm	%
S00354121	0.30	224	<5	11.7	1.4	97	N.A.
S00354122	0.31	219	<5	12.3	1.6	88	N.A.
S00354123	0.42	283	<5	14.1	1.9	90	N.A.
S00354124	0.35	378	<5	14.6	1.7	90	N.A.
S00354125	0.36	435	<5	14.4	1.9	78	N.A.
S00354126	0.44	413	<5	15.0	1.8	80	N.A.
S00354127	0.46	305	<5	16.0	1.8	83	N.A.
S00354128	0.57	221	<5	17.0	2.0	96	N.A.
S00354129	0.59	239	<5	18.2	2.1	111	N.A.
S00354130	0.56	234	<5	17.6	2.1	110	N.A.
S00354131	0.58	207	<5	18.5	2.1	95	N.A.
S00354132	0.54	243	<5	13.2	1.6	104	N.A.
S00354133	0.39	226	<5	10.7	1.3	59	26.0
S00354134	0.48	242	<5	16.3	2.0	105	N.A.
S00354135	0.44	268	<5	14.8	1.7	128	N.A.
S00354136	0.43	312	<5	15.4	1.8	116	N.A.
S00354137	0.40	185	5	15.0	1.6	87	N.A.
S00354138	0.37	210	<5	13.4	1.5	94	N.A.
S00354139	0.37	216	<5	12.0	1.4	92	N.A.
S00354140	<0.01	<5	<5	2.5	0.1	<5	N.A.
S00354141	0.26	196	<5	9.7	1.2	84	N.A.
S00354142	0.30	183	<5	9.8	1.1	76	N.A.
S00354143	0.28	154	<5	11.0	1.3	73	N.A.
S00354144	0.30	147	<5	12.5	1.3	86	N.A.
S00354145	0.25	145	<5	10.6	1.1	76	N.A.
S00354146	0.31	189	15	11.4	1.3	79	N.A.
S00354147	0.30	209	<5	13.0	1.5	77	N.A.
S00354148	0.26	189	<5	9.7	1.1	80	N.A.
S00354149	0.32	214	<5	11.7	1.3	70	N.A.
S00354150	0.50	80	<5	8.6	1.0	157	N.A.
S00354151	0.34	228	<5	11.0	1.3	73	N.A.
S00354152	0.27	220	<5	11.5	1.4	71	N.A.
S00354153	0.29	236	<5	11.9	1.3	69	N.A.
S00354154	0.27	247	<5	15.3	1.6	68	N.A.
S00354155	0.26	243	<5	11.3	1.3	65	N.A.
S00354156	0.31	190	<5	6.9	0.9	66	N.A.
S00354157	0.27	237	<5	8.1	0.9	86	N.A.
S00354158	0.24	197	<5	8.2	1.0	72	N.A.
S00354159	0.35	228	<5	11.2	1.3	72	N.A.
*Dup S00354159	0.35	228	<5	11.5	1.4	71	N.A.

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Final : SD180103 Order: SHAKESPEARE / TEST: 45 Samples

Report File No.: 0000033563

Element	Ti	V	W	Y	Yb	Zn	Fe
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GO_ICP90Q
Det.Lim.	0.01	5	5	0.5	0.1	5	0.05
Units	%	ppm	ppm	ppm	ppm	ppm	%
S00354160	0.28	134	<5	19.3	2.5	63	N.A.
S00354161	0.32	212	<5	10.1	1.2	77	N.A.
S00354162	0.29	189	<5	8.3	1.1	76	N.A.
S00354163	0.19	216	<5	11.7	1.5	89	N.A.
S00354164	0.44	254	<5	12.8	1.5	80	N.A.
S00354165	0.40	256	<5	14.1	1.7	86	N.A.
*Blk BLANK							<0.05
*Rep S00354121	0.31	221	<5	11.4	1.4	96	
*Std OREAS680	0.49	226	<5	14.7	1.6	2360	
*Std OREAS70B	0.17	65	6	9.0	1.0	120	
*Blk BLANK	<0.01	<5	<5	<0.5	<0.1	<5	
*Rep S00354133							25.7
*Std CCU1D							29.2

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