

BC Geological Survey
Assessment Report
32516c

**Appendix C – Rock Sample Description, Soil and Stream
Sediment Sample Locations**

APPENDIX C1 - Rock Sample Descriptions and Locations from 2006 to 2010

Sample #	Easting (UTM NAD83Z9)	Northing (UTM NAD83Z9)	Year	Area	Description	Lab	Certificate	Au (g/t) FA_Grav	Mo(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Fe(%)	As(ppm)	Sb(ppm)
Mws10-02B	593137	6106853	2010	Sultana	rock from silt bag	Acme Analytical	SMI10000425	1.686	5	8902	214.2	279	0.10	9.67	2500	1153
Mws10-03A	593137	6106853	2010	Sultana	rock	Acme Analytical	SMI10000425	0.033	10830	6552	12.5	272	0.00	3.77	439	461
Mws10-03B	593137	6106853	2010	Sultana	grab sample	Acme Analytical	SMI10000425	<0.005	1397	3044	17.7	97	0.00	2.99	27	19
Mws10-07	593149	6107020	2010	Sultana	high grade sample	Acme Analytical	SMI10000425	18.25	202	178700	287.2	5669	865.00	29.28	>10000	>4000
Mws10-10	593137	6106853	2010	Sultana		Acme Analytical	SMI10000425R	4.19	11	40450	38.6	1973	366.00	8.41	9810	>4000
Mwpc10-01A	591666	6110693	2010	Sultana	Rock	Acme Analytical	SMI10000425	0.008	18	451	3.6	20	0.90	4.02	12	10
Mwpc10-01B	591666	6110693	2010	TinaWest		Acme Analytical	SMI10000425	<0.005	2	111	5	46	0.40	4.29	24	6
Mwpc10-01C	591666	6110693	2010	TinaWest		Acme Analytical	SMI10000425	0.007	2	127	2.3	70	0.20	5.88	7	4
Mwpc10-01D	591666	6110693	2010	TinaWest		Acme Analytical	SMI10000425	<0.005	2	53	5.9	82	0.20	5.84	21	5
Mwpc10-01E	591666	6110693	2010	TinaWest		Acme Analytical	SMI10000425	<0.005	3	147	6	41	0.20	4.54	4	2
Mwpc10-02A	591697	6105219	2010	Big Thing		Acme Analytical	SMI10000425	0.207	7	269	457.2	1075	11.20	6.69	3107	9
Mwpc10-02B	591697	6105219	2010	Big Thing		Acme Analytical	SMI10000425	<0.005	1	55	36.1	322	0.60	6.59	41	3
Mwpc10-02C	591697	6105219	2010	Big Thing		Acme Analytical	SMI10000425	<0.005	1	33	3.5	48	0.10	4.28	84	3
Mwpc10-03A	593895	6104456	2010	MT		Acme Analytical	SMI10000425	<0.005	5	9	13.1	20	0.20	2.61	40	4
Mwpc10-03B	593895	6104456	2010	MT		Acme Analytical	SMI10000425	0.018	4	13	21.5	74	0.20	4.78	95	10
MWPC 10-04 A (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	<0.005	2	194	7	34	<0.1	4.2	5	1
MWPC 10-04 B (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	<0.005	1	39	5.6	53	<0.1	5.27	1	4
MWPC 10-04 C (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	0.013	2	124	14.3	43	0.40	2.18	19	3
MWPC 10-04 D (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	<0.005	5	59	14.7	30	0.20	2.04	32	1
MWPC 10-04 E (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	0.007	3	85	13.4	38	0.20	3.82	4	3
MWPC 10-04 F (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	<0.005	2	116	11.8	21	0.30	2.55	11	2
MWPC 10-04 G (Corrected from assay cert where MWPC = MWDC)	593002	6111309	2010	MT		Acme Analytical	SMI10000441	<0.005	4	91	14.4	28	0.20	2.22	115	2
MWPC 10-05 (Corrected from assay cert where MWPC = MWDC)	592942	6111221	2010	MT		Acme Analytical	SMI10000441	0.006	6	471	1.9	105	0.20	10.02	1	4
MWPC 10-06 (Corrected from assay cert where MWPC = MWDC)	592918	6111229	2010	MT		Acme Analytical	SMI10000441	<0.005	4	80	6.8	29	0.10	2.68	5	1
MWPC 10-07 A (Corrected from assay cert where MWPC = MWDC)	593146	6110629	2010	MT		Acme Analytical	SMI10000441	0.014	4	107	7	37	<0.1	2.9	61	1
MWPC 10-07 B (Corrected from assay cert where MWPC = MWDC)	593146	6110629	2010	MT		Acme Analytical	SMI10000441	0.019	3	40	12.3	41	0.10	3.23	43	1
MWPC 10-07 C (Corrected from assay cert where MWPC = MWDC)	593146	6110629	2010	MT		Acme Analytical	SMI10000441	<0.005	9	108	3	21	0.10	4.75	3	2
MWS 10-01 A			2010	Old Drill Core		Acme Analytical	SMI10000441	0.012	139	2065	7.4	36	1.80	3.41	2	4
MWS 10-01 B			2010	Old Drill Core		Acme Analytical	SMI10000441	0.011	6	983	6	33	1.30	3.08	<1	0
MWS 10-01 C			2010	Old Drill Core		Acme Analytical	SMI10000441	<0.005	5	184	8.5	29	0.20	2.85	2	1
MWS 10-01 D			2010	Old Drill Core		Acme Analytical	SMI10000441	0.026	58	1979	8.6	27	1.50	2.41	2	2
22936	588925	6110030	2008	Below Brunswick	qtz float with moly sample from creek	Acme Analytical	SMI08000763	1.3	2	1018	4600	>10000	126.00	7.77	2864	1723
22937	589073	6110082	2008	Brunswick	qtz vein just south of Brunswick southern adit, coarse gr, limonite, 0.5m wide, 3m long, trace moly	Acme Analytical	SMI08000763	0.79	2	251	1950.32	4401	82.94	1.83	7751	370
22938	589568	6110256	2008	Above Brunswick	qtz vein with in Dt to gabbroic Dt boulder (talus), 1% fg to cg moly, po, py	Acme Analytical	SMI08000763	0.15	449	109	16.66	55	0.36	4.16	1239	2
22946	589129	6110090	2008	Brunswick	possible Brunswick northern adit, collapsed, talus zone, trend unknown, water flowing out from under debris rock, 0.5m qtz boulder with massive galena sampled	Acme Analytical	SMI08000763	0.86	6	>10000	110800	189400	2566.00	5.97	671	>2000
22947	589095	6110085	2008	Brunswick	qtz sample with galena from southern Brunswick adit dump	Acme Analytical	SMI08000763	0.42	2	5410	49400	41800	1131.00	4.48	1024	>2000
22949	588970	6110047	2008	Below Brunswick	creek float Dt and arg boulders with trace qtz boulders, qtz boulder with trace galena sampled	Acme Analytical	SMI08000763	0.07	2	286	3071.34	3679	66.62	4.99	40	218
23103	588799	6110064	2008	RR Cr	red rose cr, qtz bx boulder trace gal	Acme Analytical	SMI08000763	0.47	2	46	584.26	250	6.20	1.35	7047	76
23134	589173	6108753	2008	Slate Pass	rock sample, chert, chl, (skarn?), up to about 20% fg, diss po with mag pods	Acme Analytical	SMI08000763	<0.01	1	453	59.72	83	1.78	14.15	74	4
23141	589059	6112283	2008	Arm. Ridge E.	rock sample, qtz boulder with mag, hem, chl, malachite	Acme Analytical	SMI08000763	0.04	25	271	8.52	30	0.52	8.61	14	1
23142	589055	6112259	2008	Arm. Ridge E.	rock samples, 23142 has massive mag, hem, with qtx and chalco, chl, 23143 has mag, malachite, chalco, qtz	Acme Analytical	SMI08000763	0.03	8	330	11.78	65	0.59	3.5	6	1
23143	589055	6112259	2008	Arm. Ridge E.	rock samples, 23142 has massive mag, hem, with qtx and chalco, chl, 23143 has mag, malachite, chalco, qtz	Acme Analytical	SMI08000763	0.47	1	7487	4.96	65	0.53	4.04	16	0

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23144	589018	6112235	2008	Arm. Ridge E.	rock sample, qtz with py, po, silicified grano?	Acme Analytical	SMI08000763	<0.01	7	117	9.19	21	0.18	3.16	17	1
23145	588898	6112092	2008	Arm. Ridge E.	rock sample, chl altered Dt with po and chalco	Acme Analytical	SMI08000763	0.04	3	1463	9.95	35	1.00	3.18	26	1
23146	588541	6111527	2008	Arm. Valley	rock sample, altered, siliceous, bio alt, chl alt, po	Acme Analytical	SMI08000763	0.02	2	55	15.36	19	0.31	3.12	2	1
23147	588179	6111387	2008	Arm. Valley	rock sample, silicified arg-silt?, with po	Acme Analytical	SMI08000763	<0.01	3	42	4.26	31	0.10	4.25	8	0
23148	588512	6111574	2008	Arm. Valley	rock sample, altered, silicified arg-silt?, po	Acme Analytical	SMI08000763	0.02	4	557	3.67	14	0.31	11.02	256	0
23151	587126	6111660	2008	Arm. Valley	rock sample, altered arg-silt?, siliceous, po	Acme Analytical	SMI08000763	<0.01	1	66	2.21	13	0.05	1.78	52	1
23155	587270	6111802	2008	Arm. Valley	rock sample, WP taken from chopper, Armagosa adit, arg-silt with py and po	Acme Analytical	SMI08000763	<0.01	1	36	8.12	76	0.07	3.44	52	0
23156	590137	6108166	2008	Jupiter/Slate	rock sample, qtz vein, 25cm wide, clean, no vis sulphides, with in grano, series of parallel to sub parallel veins in area, 345 strike, 50 E dip	Acme Analytical	SMI08000763	<0.01	1	4	2.68	4	0.07	0.51	48	1
23157	590141	6108191	2008	Jupiter/Slate	rock sample, qtz vein from same series as prev WP, 20 cm wide, clean, no vis sulphides, 340 strike, 75 E dip	Acme Analytical	SMI08000763	<0.01	0	3	2.09	6	0.03	0.48	9	0
23159	589815	6108188	2008	Jupiter/Slate	rock sample, silicified arg-silt?, up to 30% fg, diss po,	Acme Analytical	SMI08000763	0.12	1	609	2.95	2924	1.49	18.29	7	0
23163	588964	6107818	2008	Slate Cr.	rock samples, 23163, arg-silt, siliceous, chl alt, 2-3% fg, py, po, 23164, qtz with k-spar, chl alt, no vis sulphides	Acme Analytical	SMI08000763	<0.01	1	197	24.7	154	0.37	5.7	8	0
23164	588964	6107818	2008	Slate Cr.	rock samples, 23163, arg-silt, siliceous, chl alt, 2-3% fg, py, po, 23164, qtz with k-spar, chl alt, no vis sulphides	Acme Analytical	SMI08000763	<0.01	1	30	2.27	73	0.04	2.74	2	0
23165	588768	6107780	2008	Slate Cr.	rock sample, altered, silicified arg-silt (?), up to 5-7% fg py, po	Acme Analytical	SMI08000763	0.06	0	1004	3.72	28	1.62	11.97	5	0
23170	590220	6106470	2008	N BB Cr N	rock sample, altered, silicified, chl, bio altered grano(?), with 1-2% fg, diss py, po, heavy lim	Acme Analytical	SMI08000763	<0.01	3	728	2.02	43	0.57	6.9	76	2
23171	590066	6106213	2008	N BB Cr N	rock sample, altered grano(?), chl, bio alt, silicified, 1% fg, diss and pods of chalco, py, po, moly and native copper (?)	Acme Analytical	SMI08000763	<0.01	7	1271	3.37	47	0.50	3.19	238	1
23172	590061	6106083	2008	N BB Cr N	rock sample, altered grano(?), massive sulphides of po with py and chalco, silicified, bio alt	Acme Analytical	SMI08000763	<0.01	1	3297	7.84	128	3.58	11.7	1	0
23175	589939	6104838	2008	N BB Cr E	rock sample, in talus, chl, bio alt, silicified, altered grano(?), 1% fg, diss py and malachite	Acme Analytical	SMI08000763	<0.01	2	3870	649.65	551	13.55	1.71	8	1
23176	589174	6104398	2008	BB Ridge N	rock sample, qtz boulder, chl, bio alt, 5% chalco, py, sphal and yellowish fibrous min(?), down slope from one of the Brian Boru adits	Acme Analytical	SMI08000763	1.11	2	1277	900	222700	66.00	22.92	>10000	375
23177	588986	6104360	2008	BB Ridge N	rock sample, massive sulphides, in dump of main Brian Boru adit, sphal, py, chalco, po, heavy lim stained	Acme Analytical	SMI08000763	<0.01	1	11	7.91	581	0.21	0.61	88	2
23178	590158	6108071	2008	Jupiter/Slate	-9999	Acme Analytical	SMI08000763	0.01	1	2676	7200	90100	115.00	9.31	31	947
23185	589986	6107353	2008	Slate Cr. E	-9999	Acme Analytical	SMI08000763	<0.01	1	73	45.69	608	0.57	3.4	91	3
23187	589812	6107265	2008	Slate Cr. E	-9999	Acme Analytical	SMI08000763	<0.01	23	162	17.61	120	0.29	5.73	3	1
23189	589068	6107476	2008	Slate Cr.	-9999	Acme Analytical	SMI08000763	0.24	1	3010	12.5	138	1.30	12.22	12	0
23193	590029	6106594	2008	N BB Cr N	rock sample, grano with py	Acme Analytical	SMI08000763	<0.01	2	10	11.94	89	0.11	2.55	20	1
23194	589934	6106380	2008	N BB Cr N	rock sample, po	Acme Analytical	SMI08000763	<0.01	1	2168	9.59	41	0.91	10.31	8	0
23195	589925	6106373	2008	N BB Cr N	rock sample, mag, py	Acme Analytical	SMI08000763	<0.01	4	41	1.41	42	0.11	4.32	7	1
23196	589817	6106196	2008	N BB Cr N	rock sample, malachite, py, mag	Acme Analytical	SMI08000763	0.02	9	2416	2.6	81	3.08	6.23	8	0
23201	588986	6104360	2008	BB Ridge N	rock sample, massive sulphide, po, shal, py, chalco, 0.5m boulder	Acme Analytical	SMI08000763	0.1	1	4955	2700	142600	152.00	40	3	156

Sample #	Easting (UTM NAD83Z9)	Northing (UTM NAD83Z9)	Year	Area	Description	Lab	Certificate	Au (g/t) FA Grav	Mo(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Fe(%)	As(ppm)	Sb(ppm)
DM80809-01	589560	6110234	2008	Above Brunswick	qtz w py,mo? in talus	Acme Analytical	SMI08000763	<0.01	58	121	13.02	237	0.24	2.1	16	0
DM80809-02	589560	6110234	2008	Above Brunswick	alt qtz w Fe staining in talus	Acme Analytical	SMI08000763	<0.01	4	59	30.21	1205	1.46	2.1	1	1
DM80809-03	589458	6109923	2008	E of Brunswick	rusty qtz in talus	Acme Analytical	SMI08000763	<0.01	46	89	2.77	79	0.12	3.67	7	0
DM80810-01	588878	6109967	2008	S Side RR	lim. qtz fit at foot of high talus slope	Acme Analytical	SMI08000763	0.02	3	52	45	202	0.53	4.39	161	0
DM80811-01	582150	6106165	2008	Juniper Cr. S	2 m across shear zone w qtz stringers	Acme Analytical	SMI08000763	<0.01	1	4	14.67	63	0.05	2.89	3	<0.02
DM80811-02	582435	6106287	2008	Juniper Cr. S	1 m at dyke contact, minor qtz	Acme Analytical	SMI08000763	<0.01	1	24	9.15	124	0.11	2.78	15	1
DM80811-03	582400	6106250	2008	Juniper Cr. S	qtz brec fit below cliff	Acme Analytical	SMI08000763	<0.01	0	2	7.4	137	0.06	4.53	4	<0.02
DM80811-04	582175	6106190	2008	Juniper Cr. S	qtz brec vein in creek, across 0.5 m	Acme Analytical	SMI08000763	<0.01	9	8	26.9	133	0.21	5.3	9	0
DM80812-01	582570	6115545	2008	Golden Wonder N	qtz and sulph in irreg shear in argillite, chips across 0.15 m	Acme Analytical	SMI08000763	0.02	3	162	15.17	23	1.08	1.27	221	3
DM80812-02A	582520	6115605	2008	Golden Wonder N	0.5 m chip sample in porph dyke w malachite staining	Acme Analytical	SMI08000763	0.01	5	3005	13.27	240	5.12	3.16	204	2
DM80812-02	582586	6115672	2008	Golden Wonder N	0.5 m chip across argillite with minor qtz and py	Acme Analytical	SMI08000763	0.03	3	407	101.04	21	32.41	2.89	66	2
DM80812-04	582595	6115670	2008	Golden Wonder N	1.3 m chip across py porph	Acme Analytical	SMI08000763	0.02	8	59	17.02	57	0.69	3.25	167	0
CR70809-1	587140	6111825	2007	Armagosa	3' chip across highly altered seds	Assayers	7V-2024	0.02	8	74	<2	20	<0.2	3.19	212	<5
CR70809-2	587110	6111870	2007	Armagosa	2.5' chip across shear zone	Assayers	7V-2024	0.02	241	172	9	<1	<0.2	6.63	243	10
CR70809-3A	587056	6111923	2007	Armagosa	Talus - small qtz material (common)	Assayers	7V-2024	0.17	226	167	8	<1	0.90	1.89	7823	17
CR70809-3B	587056	6111923	2007	Armagosa	Talus - massive sulphide material	Assayers	7V-2024	1.14	21	>10000	39	163	35.40	11.46	>10000	134
CR70809-3C	587056	6111923	2007	Armagosa	Talus - Fe ox. Hornfelses seds (v. com)	Assayers	7V-2024	0.02	30	108	3	10	<0.2	4.41	264	<5
CR70809-3D	587056	6111923	2007	Armagosa	Talus - larger qtz vein material	Assayers	7V-2024	0.10	357	9	10	<1	3.70	0.71	1853	30
CR70809-4	586914	6111879	2007	Armagosa	qtz breccia vein fit in road (5')	Assayers	7V-2024	0.02	670	245	17	60	<0.2	3.92	674	25
CR70810-1	591440	6114450	2007	Mudflat Creek	altered granodiorite float boulder	Assayers	7V-2024	0.03	21	167	6	14	<0.2	3.78	23	<5
CR70810-1A	591440	6114450	2007	Mudflat Creek	Mineralized qtz in -1	Assayers	7V-2024	0.33	239	272	73	60	22.60	7.42	651	191
CR70810-2	591434	6114473	2007	Mudflat Creek	4' gran boulder, altered with qtz and Fe stain	Assayers	7V-2024	0.01	8	15	6	28	<0.2	2.8	13	<5
CR70810-3	591434	6114473	2007	Mudflat Creek	similar altered boulder to -2	Assayers	7V-2024	0.01	7	29	6	24	<0.2	2.24	41	<5
CR70810-4	591375	6114550	2007	Mudflat Creek	small qtz vein float	Assayers	7V-2024	0.02	265	313	4	<1	<0.2	1.88	66	7
CR60814-1	589078	6110078	2006	Brunswick	1.3m qtz and gouge near lower adit	Assayers	6V-1734-PG1	0.067	14	155	1445	258	18.00	4.38	1343	412
CR60814-2	589129	6110097	2006	Brunswick	4' qtz boulder, lower upper adit with Pb/Zn	Assayers	6V-1734-PG1	1.913	<2	4980	39000	122000	1650.00	1.54	4141	4722
CR60813-1	585530	6108890	2006	Slater	streambed float	Assayers	6V-1734-PG1	0.003	5	80	17	55	<0.2	3.61	5	<5
CR60814-3	587483	6110520	2006	Red Rose	235m SW of SE corner of tailings pond	Assayers	6V-1734-PG1	0.959	330	4600	14	186	4.30	5.63	247	6
CR60814-3A	587483	6110520	2006	Red Rose	fine orange ox. Fraction	Assayers	6V-1734-PG1	1.314	1271	10100	<2	160	23.00	10.83	806	10

APPENDIX C3 - Soil Sample Locations and Assays

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-001	593168	6106933	9.1	1	1.3	181.4	63.7	35	24.1	10.5
Ss10-002	593160	6106933	6.5	0.5	4.1	29	10.9	29	13.4	7.7
Ss10-003	593168	6106939	7.8	0.2	4	227.1	21	54	49.1	33.9
Ss10-004	593164	6106941	15.1	0.3	10.6	380.4	63.7	89	64.3	41.1
Ss10-005	593168	6106944	4.9	0.3	6	92.7	16.2	36	24	9.2
Ss10-006	593162	6106947	6.5	0.3	3	10.3	4.9	11	1.4	11
Ss10-007	593168	6106951	3.5	1	34.1	204.4	82.6	20	171.3	129.5
Ss10-008	593160	6106954	4.4	1.4	80.5	422.5	65.6	31	25.7	12.8
Ss10-009	593169	6106954	6.6	1.9	6	151.1	22.7	25	13.4	7.2
Ss10-010	593157	6106957	8.4	0.6	6.5	224.1	40.2	11	8.9	5.3
Ss10-011	593172	6106962	4.7	0.6	6.9	44.7	11.3	12	8.3	3.7
Ss10-012	593156	6106960	8.8	1.6	12.6	73.8	16.9	14	20	5.1
Ss10-013	593174	6106965	21.6	3.2	2.2	227.3	79.9	190	21	21.8
Ss10-014	593157	6106970	38.1	6.9	17.8	98.2	11.2	9	11.5	10.6
Ss10-015	593177	6106977	11.7	4	89.2	1444	133	64	24.8	12.8
Ss10-016	593155	6106977	1.6	0.6	8.6	63.4	6.6	22	2.8	1.4
Ss10-017	593174	6106981	10.1	1.1	5.3	350.3	56.6	27	10.8	3.9
Ss10-018	593154	6106981	2.8	0.3	2.9	12.9	6.9	10	3.6	2.1
Ss10-019	593171	6106988	2.1	0.2	3.7	22.9	16.6	20	14.7	4.3
Ss10-020	593153	6106987	5.4	1.1	4.5	196.9	44.2	14	10.5	2.7
Ss10-021	593165	6106995	5.6	1.1	1.3	195.9	61.1	8	5	2.3
Ss10-022	593154	6106994	3.4	0.1	0.9	6.7	2.7	3	0.5	0.6
Ss10-023	593163	6107001	4	0.4	6.5	81.2	11.5	22	12.7	3.1
Ss10-024	593152	6106999	3.9	0.05	1.5	7.7	3.2	5	1.6	0.9
Ss10-025	593162	6107008	10.7	0.2	6.3	181.2	18.3	62	39.6	13.9
Ss10-026	593151	6107002	1.8	0.2	4.5	18.5	7.2	15	12.6	2.2
Ss10-027	593160	6107015	2.8	0.2	9	44.7	9.8	26	39.1	9.4
Ss10-028	593150	6107009	0.8	0.2	4.6	11.4	3.6	12	3.5	1.5
Ss10-029	593161	6107023	1.5	0.4	6.9	17.2	7.6	15	4.7	1.1
Ss10-030	593150	6107012	3.9	0.2	3.9	19.6	3.2	10	0.25	1.5
Ss10-031	593160	6107030	1.9	0.4	130	522.1	62.8	73	24.9	5.9
Ss10-032	593154	6107016	2.3	0.05	1.5	3.5	1.7	5	1	0.5
Ss10-033	593166	6107039	15.5	0.5	23.1	120.2	21.9	20	6.1	1.9
Ss10-034	593154	6107021	2.8	0.4	3.2	10	2.9	5	1.4	0.6
Ss10-035	593160	6107046	14	0.3	5.6	15	11.1	9	2.3	1.5
Ss10-036	593152	6107026	6.8	0.4	3.5	18.8	9.1	12	3	0.8
Ss10-037	593153	6107049	15.5	1.9	10	268.5	34	50	16.2	10.4
Ss10-38	593149	6107030	3	0.5	3.5	108.1	33.5	17	3.5	1.3
Ss10-040	593142	6107031	9	2.5	6.3	150.1	52.6	42	9	8.5
Ss10-041	593146	6107063	39.2	0.3	34	784	32	82	19.4	7.6
Ss10-043	593141	6107070	8.7	1	118.8	875.1	44.8	83	29.3	5.8
Ss10-044	593139	6107042	3.2	0.9	1.5	183.8	24.9	20	4.8	2.8
Ss10-045	593144	6107081	28.3	0.4	23.3	86.8	15.2	43	8	2.3
Ss10-046	593140	6107049	3.5	0.2	3.7	80.4	10.9	20	5.8	2.4
Ss10-047	593139	6107088	10.9	0.3	16.9	57.3	13.9	45	6.6	2.4
Ss10-048	593139	6107051	3.3	0.4	7.8	85.8	11	16	8.5	2.6
Ss10-049	593139	6107093	28.1	0.1	23.3	284.5	9.1	83	12.8	9.4
Ss10-050	593135	6107057	2.5	0.2	14.8	58.4	6.9	15	3.6	0.8
Ss10-051	593137	6107101	30.2	0.2	24.9	288.3	9.9	92	17.9	17.3
Ss10-052	593135	6107061	2.5	1.1	5.1	28.4	13.7	27	6.5	2.3
Ss10-053	593140	6107108	29.6	0.7	5.6	58.2	7.4	20	10.3	5.8
Ss10-054	593134	6107064	6	1	12.3	527.4	31.6	26	7.7	2.7
Ss10-055	593144	6107114	11.8	0.9	4.1	36.7	8.1	19	6.8	1.5
Ss10-056	593129	6107069	12.7	2.7	15.2	325.6	66.7	79	34.2	19.4
Ss10-057	593142	6107121	7.7	0.3	5.7	37.9	7.3	22	12.1	2.8
Ss10-058	593130	6107075	3.9	2.4	3.1	146.8	59.1	48	12.6	4.7
Ss10-059	593141	6107128	10.5	0.7	4.7	29.7	8	23	10.5	2.5

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-060	593129	6107080	10.7	2.9	1.4	332.1	55.8	13	18.8	3.5
Ss10-061	593137	6107138	5.5	0.2	6.4	31.7	10.4	28	6.4	1.2
Ss10-062	593128	6107086	8.5	1.2	4.3	231.1	25.4	58	12.6	3.8
Ss10-063	593097	6107126	3.4	0.2	10.1	27.7	9.4	13	9.3	3.3
Ss10-064	593127	6107091	10.5	0.4	8.1	185.1	11.4	51	21.3	6.5
Ss10-065	593092	6107121	22.2	0.2	8.4	10	8.7	5	1.4	0.5
Ss10-066	593126	6107094	24.1	0.6	8.7	77.5	12.8	42	21.2	5.3
Ss10-067	593085	6107117	9.5	0.3	7.1	59	6.6	9	1.6	0.4
Ss10-068	593126	6107101	12.3	0.4	7.9	50	7.7	12	5.9	1.6
Ss10-069	593081	6107109	11.7	0.6	12.2	183.5	13.2	46	21.5	5.7
Ss10-070	593125	6107109	11.3	0.3	12.2	137.9	13.6	42	22.8	6.9
Ss10-071	593079	6107099	17.7	0.2	9.2	36	6.7	21	5.3	1.8
Ss10-072	593127	6107110	86.8	0.2	15.3	237.9	12.9	51	23.2	5.2
Ss10-073	593073	6107090	6	0.5	9.4	64.1	7.6	16	6.9	1.6
Ss10-074	593120	6107116	10.3	0.2	15.3	137.9	11.3	38	23.4	5
Ss10-075	593071	6107082	11.9	0.4	18.4	53.6	4.3	7	2.5	1.2
Ss10-076	593113	6107111	1.4	0.4	4.8	22	3.7	6	1.3	0.8
Ss10-077	593067	6107071	7.4	0.5	9.2	38.3	10.8	19	3.8	1.5
Ss10-078	593113	6107107	36.4	0.9	33.8	51.5	9.7	10	5.8	1.4
Ss10-079	593075	6107064	3	1	4.3	42.9	11.9	15	5.2	2
Ss10-080	593113	6107104	5.8	0.4	3.6	29	8.7	20	3.6	0.7
Ss10-081	593080	6107056	7.1	0.9	28.7	85.3	12.5	10	2.2	0.7
Ss10-082	593113	6107101	7.7	0.3	8.8	298.9	15.7	58	25.3	17.9
Ss10-083	593083	6107049	5.9	0.4	10.1	169.1	14.7	43	20.3	6
Ss10-084	593113	6107096	2.9	0.8	6.2	76.5	11.9	15	7.3	1.1
Ss10-085	593089	6107041	4.6	0.1	6.5	47.7	16	13	3.9	1.2
Ss10-086	593116	6107091	2.5	0.2	5.3	120.1	17.1	51	13.4	4
Ss10-087	593096	6107035	6	0.5	33.2	425.8	38	51	17.8	3.7
Ss10-088	593117	6107083	8.3	0.5	6.6	181.1	16.4	46	23.4	8.5
Ss10-089	593102	6107030	5.6	0.5	22.7	1347.7	60.1	136	21	9.7
Ss10-090	593117	6107078	2.9	0.6	5.8	87.8	16.7	33	12.8	4.2
Ss10-091	593108	6107022	5.5	1.1	25	2082.2	91.6	130	26.1	8.4
Ss10-092	593118	6107071	7.4	2.5	7.3	252	61	69	26.4	13.9
Ss10-093	593123	6107016	4.1	1.1	5.5	38.5	9.4	7	3.5	0.9
Ss10-094	593120	6107066	13.1	2.6	10.3	347.8	97.1	124	48.8	32.5
Ss10-095	593128	6107011	9.9	0.4	4.4	232.5	51.6	57	15.7	5.8
Ss10-096	593121	6107062	7.8	0.4	7.2	161.5	24	46	26.5	17.2
Ss10-097	593136	6107001	14.4	2.8	38.3	378.1	103.7	63	69.9	25.7
Ss10-098	593123	6107058	10	0.4	8.7	182.8	36.5	64	37.2	12.3
Ss10-099	593139	6106993	18.3	2.2	8.1	375.9	42	79	23.5	16.5
Ss10-100	593125	6107055	3.7	1.2	6.7	215.5	38.5	44	12.8	3.6
Ss10-101	593144	6106983	12.9	0.6	16.4	142.7	21.6	30	27.4	8.3
Ss10-102	593130	6107046	6.5	1.3	16.8	448.9	21.9	42	18.5	7
Ss10-103	593151	6106978	4.2	0.6	9.3	71.1	26.5	36	26.8	9
Ss10-104	593131	6107045	8.5	0.4	8.6	92	7.2	21	11.9	4.6
Ss10-105	593143	6106967	1.5	0.5	8.3	82.2	22.4	26	22.1	6.3
Ss10-106	593134	6107040	4.3	0.7	4.5	41	15.7	11	8	2.5
Ss10-107	593144	6106960	5.8	1.5	8.4	246.3	16.2	25	8.5	3
Ss10-108	593135	6107038	8	0.3	10.3	204.1	28.1	59	30.2	10.4
Ss10-109	593148	6106956	3.4	0.4	63.8	195.3	18.2	50	33.3	9.7
Ss10-110	593137	6107032	3.4	0.7	1.9	105.8	23	16	7.2	1.7
Ss10-111	593150	6106948	9.9	0.8	24.9	204.3	14.3	26	12.5	5.4
Ss10-112	593138	6107028	6.4	0.9	3.5	31.4	22.4	19	8.4	1.8
Ss10-113	593151	6106945	1.7	1.1	7.2	31.3	5.8	10	1.7	1.5
Ss10-114	593139	6107023	4.2	0.5	3.5	200.9	13.9	11	10.7	1.4
Ss10-115	593155	6106934	7.5	1.2	6.2	39.7	18.2	9	7.3	3.9
Ss10-116	593144	6107017	10.9	0.6	14.7	199.7	16.4	12	12.8	2.3
Ss10-117	593156	6106927	6.2	0.4	1.6	9.9	4.8	7	2.9	2.7

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-118	593148	6107012	8	0.5	8	167.9	13.9	11	8.5	2
Ss10-119	593156	6106920	3.2	0.2	10.1	29.5	31.8	7	12.4	5
Ss10-120	593146	6107009	1.7	0.6	17.9	70.3	6.7	10	4.3	1
Ss10-122	593149	6107002	2.3	0.4	1.9	11.9	2.2	8	1.3	0.7
Ss10-123	593162	6106908	35.8	6.5	25	1016.6	132.2	337	134.7	113.2
Ss10-124	593149	6106998	5.1	0.05	9.5	17.1	1.8	4	1.9	0.6
Ss10-125	593173	6106918	6.8	0.4	15	137.4	67.3	74	83	33.3
Ss10-126	593152	6106995	6.6	0.6	33.5	84.6	3.8	8	3	2.1
Ss10-127	593179	6106910	7	0.7	22.8	156.5	19	58	40.9	16.9
Ss10-128	593152	6106991	25.6	0.2	26.2	27.5	9.6	15	13.8	4.6
Ss10-129	593180	6106905	4.7	1.4	35.1	225.4	78.6	75	28.6	40.5
Ss10-130	593153	6106985	35.6	0.9	6.3	48.9	8.8	12	11.7	3.2
Ss10-131	593191	6106906	39.1	3.3	58.6	455.6	293.4	91	132.7	58.1
Ss10-132	593150	6106979	8.2	1.7	10.9	263.7	30.9	18	8.5	2.5
Ss10-133	593195	6106912	5.5	0.3	74	257.3	23.5	62	11.5	10.3
Ss10-134	593153	6106976	4.6	1	10.5	65	12.3	23	14.1	4.7
Ss10-135	593145	6106921	3.3	0.3	55.5	300.5	62.4	154	49.8	14.4
Ss10-136	593108	6107102	33.3	0.6	5.3	25.8	6.5	10	8.1	2.4
Ss10-137	593138	6106930	5.8	2	12	105.9	29.3	62	34.5	14.1
Ss10-138	593106	6107098	4.5	0.3	4.8	27.5	10.9	17	5.6	1.8
Ss10-139	593133	6106939	5.4	0.5	18	195.5	17.8	30	16.3	6.2
Ss10-140	593106	6107097	2.7	1.6	1.9	37	4.3	17	3	0.8
Ss10-141	593127	6106945	10.1	0.4	35.5	257.8	25.4	72	22	8.6
Ss10-142	593104	6107092	2.5	0.6	4.1	49.5	14.6	41	8.1	1.9
Ss10-143	593122	6106951	1	0.5	8.6	56.4	14.3	31	6.3	1.9
Ss10-144	593102	6107083	4	1.2	4.7	61.9	6.8	10	3.8	0.7
Ss10-145	593116	6106957	4.4	0.7	33.3	201.7	26.4	49	48.4	10.9
Ss10-146	593102	6107075	7.7	0.4	8.9	57.4	13.5	16	10.1	15.2
Ss10-147	593109	6106962	5.5	0.3	14.8	23.2	12.6	18	8.4	3.9
Ss10-148	593105	6107072	1.2	0.2	8.9	67.9	16.6	36	20.5	6.2
Ss10-149	593102	6106968	5.3	0.8	18	140.7	5.3	20	2.2	0.6
Ss10-150	593105	6107070	3.1	0.7	3.7	36.4	12.7	17	4.3	0.8
Ss10-151	593099	6106974	1.8	0.8	50.7	116.6	11.5	24	6.5	1.7
Ss10-152	593107	6107062	3.1	0.4	2.9	9.2	6.1	11	3.4	1.4
Ss10-153	593097	6106983	9	1.4	5.1	22.2	10.4	17	13.4	3.2
Ss10-154	593108	6107056	3.9	0.2	1.7	3.8	1.6	5	0.8	0.3
Ss10-155	593088	6106991	5.6	0.3	7	13.1	7.5	14	3.9	1.2
Ss10-156	593108	6107052	4.3	0.3	8.8	24.7	13.6	17	11.8	3.1
Ss10-157	593085	6106998	4.7	0.7	27.9	58.5	51	13	3	1.5
Ss10-158	593111	6107046	5.9	1.1	7.5	68.7	15.9	21	14.6	3
Ss10-159	593080	6107008	38.3	1	6.1	60.4	13.1	17	9.2	2.9
Ss10-160	593109	6107040	81.4	0.9	7.5	136.4	27.1	41	21.3	7.8
Ss10-161	593076	6107017	16.5	0.6	7.9	32.4	14.9	20	19	4.9
Ss10-162	593109	6107033	4.4	1.1	5	23.4	14.5	17	5.3	1.5
Ss10-163	593075	6107023	8.6	0.4	6.4	49	10.6	35	13.7	5.2
Ss10-164	593111	6107030	3.5	1.9	11	171.5	37.9	30	13.7	5.5
Ss10-165	593073	6107030	10.2	0.4	4.6	17.2	11.7	13	8.5	4.7
Ss10-166	593107	6107014	7.9	1	56.5	438.9	20.2	47	31.5	15.7
Ss10-167	593073	6107040	4.2	0.9	9.2	105	22	43	28.6	9.1
Ss10-168	593111	6107007	2.1	0.7	7.4	35.4	11.9	12	8.2	1.3
Ss10-169	593079	6107049	5.4	1.3	20.1	371.1	34.6	30	12.5	3
Ss10-170	593116	6107004	3.9	1.3	11.3	345.4	15	12	10.9	2.5
Ss10-171	593064	6107047	7.8	0.3	62.9	270.1	74.8	43	46.1	9
Ss10-172	593119	6106999	3.3	2.3	6.2	209.8	44.6	32	15.2	4.7
Ss10-173	593061	6107057	6.1	0.4	13.7	81.4	14.8	34	25.4	9.3
Ss10-174	593125	6106992	5.5	0.8	20.8	234.9	23.8	56	15.2	7.2
Ss10-175	593062	6107064	2.9	0.7	4.9	17.2	13.9	12	14.3	4.1
Ss10-176	593127	6106989	18.7	1.5	11.4	361.5	69.5	82	36.2	9.4

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-177	593060	6107081	5.7	0.3	4.7	31.3	8.5	14	2.6	1.5
Ss10-178	593128	6106984	INTERFERENCE	1.2	15.9	472.1	132	94	61.5	5.3
Ss10-179	593054	6107089	9	1.6	7	168.3	13.4	42	14	4.1
Ss10-180	593131	6106977	INTERFERENCE	1.6	13.2	310.5	97.3	54	53.4	4.1
Ss10-181	593056	6107100	7.1	0.6	3.9	117.5	7.8	13	3	0.4
Ss10-182	593135	6106968	3.6	0.6	4.5	147.9	41.9	22	8.5	2.4
Ss10-183	593060	6107111	0.6	0.2	0.8	4.7	1.8	9	0.25	0.05
Ss10-184	593136	6106968	9	0.3	12.4	194.3	53.1	70	67.8	20.3
Ss10-185	593214	6106923	5.7	1	16.3	77.7	14.8	50	19.7	6.9
Ss10-186	593192	6106917	1.4	0.1	17.6	61.6	22.7	44	73.7	19
Ss10-187	593208	6106934	5.6	0.1	14	382.4	76.4	118	14.6	3.9
Ss10-188	593193	6106924	26.5	5.9	55.6	990.5	260.9	53	66.9	9.1
Ss10-189	593206	6106940	5.2	0.1	51.6	117.5	33.1	43	16.2	3.2
Ss10-191	593205	6106948	1.4	1.2	9.4	58	11.8	14	16.3	2.7
Ss10-192	593196	6106929	2.9	0.3	11.9	45.7	22.7	15	7.4	1.4
Ss10-193	593202	6106960	9.4	0.2	9.4	37.1	9.8	21	18.6	3.4
Ss10-194	593196	6106934	5.7	1.1	15	290.8	12	30	9.6	2.5
Ss10-195	593199	6106969	3.2	0.6	42.8	107.1	39.9	58	89.3	16.3
Ss10-196	593196	6106938	5.8	1	23	320.2	10.8	43	19	3.6
Ss10-197	593199	6106976	21.4	0.2	26.8	128.7	30.9	54	69.9	13.4
Ss10-198	593194	6106945	0.25	0.4	13	50.6	13.6	20	13.1	2.4
Ss10-199	593197	6106985	3.7	0.6	6.8	75	9.7	19	20	2.9
Ss10-200	593193	6106953	3	0.3	2.6	13.9	2.2	8	1.8	1.2
Ss10-201	593196	6107001	2	0.2	2.6	51.1	8.7	11	5.9	1.8
Ss10-202	593191	6106959	6.3	2	6.7	29.2	16	13	11.3	2.3
Ss10-203	593194	6107004	11.4	0.3	11.8	41.2	11.7	26	11.6	5.2
Ss10-204	593191	6106966	11.2	0.2	8.2	17.7	6.4	14	6.4	1
Ss10-205	593195	6107011	5.1	0.8	42.9	267.6	51.4	33	14.1	3.8
Ss10-206	593190	6106969	3	0.3	6.5	27.3	11.5	16	7.3	1.6
Ss10-207	593195	6107015	8	0.4	28.2	173.5	22.1	55	29.9	12.4
Ss10-208	593187	6106971	3.5	0.4	7.4	64.1	11.6	24	16.2	3.4
Ss10-209	593196	6107022	3.4	1.2	31.2	94	10.8	11	6.5	1.2
Ss10-210	593188	6106975	8.8	0.3	3.5	20.7	4.2	10	3	1
Ss10-211	593193	6107025	14.4	0.7	5	35	9.7	10	7.9	7.9
Ss10-212	593185	6106986	7.2	0.05	4.6	63.3	9.4	15	6.3	2.3
Ss10-213	593195	6107035	2.6	0.5	18.6	72.5	30.8	38	13.6	2.2
Ss10-214	593185	6106987	8.3	0.2	3.5	18.7	3.5	10	3.9	1.6
Ss10-215	593194	6107038	0.9	0.2	37.3	32.7	20.3	22	9.4	1.7
Ss10-217	593194	6107044	5.6	1	22.3	134	41.4	42	13.3	4.1
Ss10-218	593186	6107003	2.1	0.1	3.9	4.9	3.5	4	0.25	1.1
Ss10-219	593196	6107059	3.4	0.2	3.1	5.7	3.5	6	0.8	0.9
Ss10-220	593187	6107007	3	0.05	2.5	6.2	4.1	8	1.5	1.1
Ss10-221	593193	6107067	6.4	0.05	3.8	13.3	6.8	13	4	2.7
Ss10-222	593186	6107011	1.5	0.2	22	46.8	16.8	26	8.6	1.9
Ss10-223	593191	6107076	1.7	1.5	3.2	20.7	4.4	14	1.6	0.8
Ss10-224	593186	6107018	11	0.3	19.7	102.5	20.5	58	29.2	10.9
Ss10-225	593197	6107087	7.6	0.3	6.3	76.7	17.1	73	21.6	5
Ss10-226	593184	6107024	2	0.05	4.7	6.9	4.6	10	1.4	0.8
Ss10-227	593195	6107102	3.3	0.1	1.2	9.6	3.1	8	0.25	0.3
Ss10-228	593185	6107027	6.6	0.4	5.1	15.9	5.6	17	8.7	2.1
Ss10-229	593193	6107104	1.2	0.1	2.2	6.5	3.6	7	1.1	0.5
Ss10-230	593185	6107034	3.1	0.3	7.8	41.9	12.1	30	25	7.7
Ss10-231	593194	6107108	3.8	0.3	3.5	14	4.7	13	2.2	0.7
Ss10-232	593186	6107039	2.8	0.2	3.6	21	8.4	12	2.3	1
Ss10-233	593193	6107113	3.5	0.1	4.2	10.3	4.3	10	2.4	1.1
Ss10-234	593187	6107044	2.3	0.3	2.1	6.9	6.5	12	1.6	0.8
Ss10-235	593191	6107120	7.1	0.2	5.2	22	10.8	19	5.6	1.9
Ss10-236	593182	6107051	4.8	1	10.8	31.1	7.5	19	4.4	2.5

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-237	593192	6107123	1.1	0.5	3.6	15.6	6.7	8	1.8	0.7
Ss10-238	593185	6107057	2.4	0.1	1.8	7.2	5.1	9	2.1	1.8
Ss10-239	593192	6107128	7.3	0.05	1.3	5.1	3.2	4	0.25	0.2
Ss10-240	593186	6107061	1.3	0.2	2.4	11	4.2	17	4	1.4
Ss10-241	593193	6107130	2.4	0.1	6.6	14	7.9	15	3.9	0.6
Ss10-242	593185	6107067	7.6	2.2	18.5	495.3	37.3	37	11.6	1.9
Ss10-243	593192	6107134	4.8	0.3	3.9	13	10.1	8	2.3	0.5
Ss10-244	593186	6107071	1.8	1.8	3.2	346.6	16.7	6	2.2	0.2
Ss10-245	593192	6107141	18.9	0.1	2.9	6.6	3.5	5	0.7	0.2
Ss10-246	593186	6107078	5.1	0.2	5.8	11.3	3.7	11	1.3	0.3
Ss10-247	593191	6107143	9.8	0.1	1.4	5.9	7.9	5	0.9	0.3
Ss10-249	593212	6107147	1.4	0.3	1.2	28.8	9	8	2.9	0.3
Ss10-250	593181	6107083	1.3	0.5	9.5	42.1	10	19	8.9	1.3
Ss10-251	593211	6107141	2.1	0.05	3	44.6	18	27	9.9	1.2
Ss10-252	593178	6107088	5.4	0.9	8.1	32.1	8.2	26	3.4	1.1
Ss10-253	593212	6107134	3.4	0.3	5.2	75.3	12.8	22	9	1.2
Ss10-254	593175	6107094	10.5	6.1	18	160.8	36.6	25	12.3	4.2
Ss10-255	593210	6107131	11.9	0.9	2.9	27.3	14	13	5.4	0.7
Ss10-257	593212	6107122	6	0.3	4	18.6	11.6	22	6	0.9
Ss10-258	593187	6107095	1	0.8	1.8	14.9	5.9	12	0.5	0.4
Ss10-259	593209	6107117	4	0.05	2.8	10.8	3.3	17	3.7	0.6
Ss10-260	593206	6107110	1.9	1.1	1.8	121.1	37.6	9	4.1	0.8
Ss10-261	593211	6107112	10	0.1	1.8	9.8	6.9	10	5.2	0.7
Ss10-262	593206	6107105	1.4	0.1	1.8	5.3	6.4	7	1.6	0.3
Ss10-263	593212	6107106	2.9	0.3	3	17.5	7.5	15	7.3	1.3
Ss10-264	593205	6107100	0.5	0.5	2.1	11	6.8	18	1.7	0.2
Ss10-265	593213	6107100	3	0.3	2.7	11.7	6.6	9	4.8	1.1
Ss10-266	593205	6107099	10	0.3	9	49.1	15.3	38	17.4	3.2
Ss10-267	593214	6107093	2.4	1.6	4	48.2	9	42	5.5	0.7
Ss10-268	593205	6107092	6.1	2.6	20.5	120.2	34.5	39	32.6	2.6
Ss10-270	593204	6107085	1.9	0.3	1.8	140	19.1	11	4.1	0.7
Ss10-271	593213	6107083	7.7	0.2	2.5	35.8	11.3	20	9.1	2.6
Ss10-272	593204	6107079	2.6	0.6	0.5	142.2	18.9	5	1.7	0.3
Ss10-273	593216	6107078	5.1	1.2	4.5	28.1	12.6	23	12.8	1.7
Ss10-274	593204	6107073	4.9	0.6	2.9	14.9	7.6	25	9.5	1.9
Ss10-275	593216	6107073	1.7	0.8	1.9	23.1	7.8	9	2.2	0.6
Ss10-276	593205	6107067	4.5	0.05	1.7	5	2.2	12	3.9	0.8
Ss10-277	593215	6107065	1.8	1.4	12.9	24.8	23.1	20	9.6	1.5
Ss10-278	593204	6107065	2.5	0.1	0.9	4.9	2.2	23	0.9	0.2
Ss10-279	593218	6107061	0.25	0.3	8.9	26.2	11.6	14	8.9	1.7
Ss10-280	593204	6107062	1.5	0.1	1.9	5.5	2.8	11	2.7	1.4
Ss10-282	593203	6107052	3.1	0.3	3.1	7.5	6.5	15	5.2	1.8
Ss10-283	593218	6107049	3.8	0.3	4.1	12	19.9	13	7.5	1.9
Ss10-284	593207	6107047	3.4	0.4	2.7	13.2	3.3	22	1.1	0.4
Ss10-285	593217	6107045	2.8	0.5	2.5	10.2	4.8	13	2.8	1
Ss10-286	593208	6107044	12.1	1.8	29.9	211	24.1	53	73	10.6
Ss10-287	593216	6107042	2.5	2.6	9.8	67.3	23.1	19	13	1.5
Ss10-288	593206	6107040	2.8	0.6	6.2	22.5	7	16	5.6	1.6
Ss10-289	593218	6107037	3.2	0.3	4.6	27.9	7.2	14	10.2	3.6
Ss10-290	593205	6107035	4.2	1.8	20.6	109.7	9.5	9	7	1.5
Ss10-291	593219	6107028	6.3	0.3	8.1	82.7	11.5	31	7.8	1.5
Ss10-292	593205	6107030	3.6	0.4	13.9	92.8	6.4	28	7	1
Ss10-293	593217	6107022	5.4	0.8	8.5	74.3	16.8	38	19.5	5.6
Ss10-294	593204	6107024	8.3	0.2	10.6	77.4	3.3	15	13.1	0.6
Ss10-295	593219	6107012	3.6	0.1	5	12.2	2.6	7	1.1	0.7
Ss10-296	593204	6107017	2.4	0.7	16.4	93.4	14.6	20	8.5	2
Ss10-297	593220	6106985	7.8	0.2	5.3	10.8	5.9	13	2.9	0.8
Ss10-298	593205	6107012	1.4	0.3	11.9	62.2	24.8	59	17.5	5.1

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-299	593221	6106980	2.4	0.6	13	49.2	13	31	14.8	5.2
Ss10-300	593205	6107008	4	0.4	11.5	27.7	14.5	26	8.3	2.5
Ss10-301	593223	6106975	4.8	0.6	79.1	225.8	40.6	54	10.9	2.1
Ss10-302	593207	6107002	0.6	0.4	7.9	43.3	13.9	26	12.6	3.9
Ss10-303	593221	6106968	7.7	1.3	10.5	1934.6	883.2	23	6.1	1.2
Ss10-304	593209	6106996	2.1	0.3	10.3	33.7	9.8	29	12.1	2.8
Ss10-305	593225	6106963	4.9	1.4	44.1	140.4	65.1	53	27.7	4.7
Ss10-306	593210	6106994	9.9	0.2	8.9	19.4	11.2	13	2.5	1
Ss10-307	593228	6106961	5.1	1	24.3	282.2	27.7	26	18.4	3.9
Ss10-308	593210	6106986	1.6	0.1	43	85.8	28.2	19	7	1.6
Ss10-309	593228	6106950	7.6	0.8	7.2	327.9	49.4	124	52.1	17.9
Ss10-310	593211	6106981	4.2	0.7	26.4	66	22.7	20	12.3	2.6
Ss10-311	593144	6106914	7.7	0.3	284.7	412.2	207.3	194	151.6	25
Ss10-312	593209	6106975	4	0.5	9.5	63.7	27.8	36	21.3	5.1
Ss10-313	593141	6106921	7.1	0.7	67.6	165.6	87.9	89	35	15.7
Ss10-314	593209	6106969	2.5	0.4	9.1	23.4	29.1	31	37.5	4.7
Ss10-315	593134	6106925	7.4	0.4	36.1	204.8	76.2	79	27.8	9
Ss10-316	593207	6106963	6.9	0.3	10.6	175.5	35	64	74.9	25
Ss10-317	593129	6106927	3.9	0.3	56.4	214.3	50.9	119	34.9	12.1
Ss10-318	593207	6106960	1.1	0.8	7.6	42.4	9.9	24	30	3.1
Ss10-319	593121	6106928	8.1	0.3	69.1	237.4	86.2	126	70.4	21.5
Ss10-320	593208	6106951	8.3	0.9	9.7	81.2	12.9	30	32	6.8
Ss10-321	593116	6106927	7.3	0.3	39	126.2	32.8	84	24.1	25.1
Ss10-322	593214	6106947	17.9	1.1	2.1	924.7	172.4	76	36.3	6.2
Ss10-323	593109	6106930	4.3	1.1	187.6	100.6	566.3	72	102	26.8
Ss10-324	593142	6106933	7.4	1.4	11.4	101.6	40.1	59	51.3	19.1
Ss10-325	593104	6106930	6	0.6	33.9	95.4	51.8	85	52.5	19.4
Ss10-326	593141	6106933	3.9	1.2	6.3	27.4	19.2	25	12.6	4.5
Ss10-327	593099	6106929	78.9	40.9	144.2	731.1	201.5	113	773.6	858
Ss10-328	593134	6106937	11.1	0.3	9	68.8	15.1	14	6.5	5.3
Ss10-329	593090	6106927	10.3	1.7	368.8	1289.7	225.7	168	130.7	54.1
Ss10-330	593125	6106938	7	0.7	15.4	151.6	31.7	48	26	9.6
Ss10-331	593083	6106927	4.4	0.6	182.3	434.8	166.9	103	80.6	21.5
Ss10-332	593118	6106940	4.9	2.4	10.5	161.6	46.4	53	42.3	15.7
Ss10-334	593115	6106940	4.2	0.7	9.5	21.7	27.5	22	17.3	7.4
Ss10-336	593105	6106939	8.8	0.7	7	34	26.8	26	15.2	7.9
Ss10-338	593101	6106941	6.6	0.2	23.3	132.8	22.2	60	33.6	18.8
Ss10-340	593097	6106941	9.5	0.5	41.5	151.5	58	65	41.5	15.5
Ss10-341	593021	6106930	17.7	0.3	28	221.4	6.8	29	18.4	3.6
Ss10-342	593093	6106940	7.1	0.7	215.8	175.6	240.8	58	18.2	17.1
Ss10-343	593007	6106932	3.5	0.2	25.3	138.1	9.1	20	10.9	2.4
Ss10-344	593085	6106945	10.6	2.3	32.5	136.7	72.7	42	14.7	14
Ss10-345	592999	6106933	0.7	0.2	8.8	133.2	9.2	12	3.5	0.9
Ss10-346	593081	6106948	3.6	0.5	35.9	388	31.3	30	10.9	2.8
Ss10-347	592989	6106934	2.6	0.1	6.6	33.4	5.7	11	1.6	0.8
Ss10-348	593057	6106947	4.3	0.5	21.8	1243	14.5	35	12.6	4.1
Ss10-349	592980	6106937	1.1	0.1	4.3	11.7	3	10	1.1	0.6
Ss10-350	593049	6106949	1.7	0.05	23.9	46	7	22	25.2	3.6
Ss10-351	592970	6106937	1.2	0.05	7.7	50.2	4.9	10	1.7	0.7
Ss10-352	593040	6106951	1.6	0.5	7	26.5	5.1	15	5.4	1.3
Ss10-354	593030	6106949	4.8	1.1	20.3	506	35.5	39	20.3	7.5
Ss10-355	592951	6106936	3.3	0.05	48.7	243.2	13	20	8.9	4.9
Ss10-356	593023	6106950	10.8	1.8	13	500.3	25.6	13	12.4	2.4
Ss10-357	592941	6106934	7.3	1.7	145.6	1889	14.6	12	24.8	10.1
Ss10-358	593022	6106950	8.5	0.6	10.1	55.9	10	18	46.9	15.3
Ss10-360	593015	6106951	3.6	0.4	7.5	48.4	4.1	10	12.5	6.1
Ss10-362	593013	6106952	8.4	1.4	48	63.2	8	12	11.6	8.1
Ss10-363	592960	6106991	5	0.3	13.1	32.2	2.9	8	1.3	0.8

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-364	593008	6106954	5	1.6	18.7	27	7.3	10	3.1	1.6
Ss10-365	592967	6106993	4.9	1	43.8	136	8.8	13	4.6	0.6
Ss10-366	593000	6106955	4.1	2.9	8.1	71.8	8	10	9.3	2.1
Ss10-367	592978	6106989	10.4	0.6	19.9	131.4	12.4	15	11.2	1.2
Ss10-368	592999	6106955	9.1	0.7	20.5	125.8	9.6	13	39.5	17.5
Ss10-369	592982	6106988	7	0.5	131.9	47.5	9.1	9	2.4	0.6
Ss10-370	592994	6106956	12.7	0.9	9.7	55.4	8	12	29.8	12.9
Ss10-371	592991	6106988	1.7	1	6.2	56.3	5.3	14	2.3	0.9
Ss10-372	592985	6106954	2.6	1	10.5	49.9	8.9	12	23.7	6.6
Ss10-373	592997	6106990	7.6	0.2	29	18.8	3.3	9	1.1	0.7
Ss10-374	592979	6106956	7	0.5	20.9	159.2	19.2	54	54.6	19
Ss10-375	593002	6106986	6.1	0.5	8	32	11.7	17	6.5	1.5
Ss10-376	592974	6106958	12.8	0.8	32.6	46.4	13.2	6	5.2	1.6
Ss10-377	593014	6106990	1.2	0.3	11.2	192.5	28.3	18	3.9	1.4
Ss10-378	592967	6106958	11.3	0.6	37.5	174	16.8	23	12.1	2.6
Ss10-379	593024	6106991	0.25	0.6	2	22.7	3.2	10	0.6	0.5
Ss10-381	593031	6106992	7.1	0.3	4.4	16.3	5.6	8	1.1	0.6
Ss10-382	592956	6106959	12.2	1.5	506	3164.3	108.5	70	188.4	80.8
Ss10-383	593041	6106990	3.2	1.1	19.5	45.7	28.2	18	9.6	2.9
Ss10-384	592951	6106956	4.3	0.5	155.3	1140.4	61.2	42	71.4	25.4
Ss10-385	593053	6106992	16.4	0.4	834.2	172.9	11	62	459.3	30
Ss10-386	592940	6106957	8.1	0.6	14.5	30.1	16.2	27	14.5	2.8
Ss10-387	593064	6106993	3.4	0.8	17.1	114.8	9	23	6	1.3
Ss10-389	593070	6106995	18.1	0.3	1.8	5.6	4.9	8	3.3	1
Ss10-390	592955	6106970	3.2	0.5	24.7	144.6	8	24	17.8	1.9
Ss10-391	593077	6106998	23.8	0.3	6	21.3	12.4	17	13.9	3.9
Ss10-392	592964	6106971	2.7	1	31.8	76.7	8.6	16	10	1.9
Ss10-393	592909	6106912	6.6	0.6	13.3	33.7	6.9	8	2.5	1.2
Ss10-394	592973	6106970	5.2	1.1	16.4	161.1	10.2	12	5.1	0.5
Ss10-395	592902	6106924	0.25	0.5	17.7	34	10.3	37	14.4	1.2
Ss10-396	592981	6106971	3.3	0.8	8.1	42.6	16.3	10	5.3	1.9
Ss10-397	592902	6106936	2.6	0.3	188.3	122.9	14	23	18.7	2.3
Ss10-398	592989	6106973	6.7	0.6	11.4	120.9	11.9	22	10.2	2.7
Ss10-399	592898	6106946	2.7	0.3	12.9	75.6	10.1	23	13.2	1.9
Ss10-400	592998	6106973	2.7	0.3	4.5	10.9	2.1	5	0.25	0.4
Ss10-401	592898	6106958	2.2	0.3	26.7	40.2	12.3	22	5.3	0.9
Ss10-402	593007	6106975	4.3	0.3	10	37.6	7.7	11	0.6	0.4
Ss10-403	592897	6106968	9.1	0.4	16.3	64.5	15.2	28	8.4	0.6
Ss10-404	593014	6106977	2.5	0.2	17.6	35.9	11.1	28	6.5	1.3
Ss10-405	592892	6106979	9.5	0.4	12	229.8	7.6	25	4.6	1.1
Ss10-406	593019	6106976	8.4	0.3	7.6	12.9	3.7	14	0.25	0.5
Ss10-407	592889	6106993	4.6	0.3	29.1	80.9	12.7	27	15.4	2.7
Ss10-408	593036	6106977	5.7	0.3	2.8	10.8	9	13	1.3	0.6
Ss10-409	592890	6107003	2.9	0.3	6.1	20	9.6	8	4	0.4
Ss10-410	593043	6106973	5.1	0.8	7.3	28.5	10.2	15	7.6	2.8
Ss10-411	592885	6107013	2.1	0.5	10.8	44.9	18.8	18	13.5	1.8
Ss10-412	593053	6106973	8.1	0.6	15.5	135.7	11.1	21	34.1	4
Ss10-413	592881	6107024	9.1	0.2	13.9	46.1	8.4	18	2.7	0.7
Ss10-414	593063	6106972	4.6	0.6	7	56.4	24.1	30	12.1	3.4
Ss10-415	592878	6107032	6.5	0.1	4.1	10.6	7.9	9	5.4	0.3
Ss10-416	593073	6106972	2.4	0.2	7.3	28.9	9.4	13	8.3	0.9
Ss10-418	593867	6107025	5.9	2	2.5	8.3	9	10	5.2	1.2
Ss10-419	592864	6107021	1.6	1.3	3.3	84.8	10.4	18	4.3	0.4
Ss10-420	593081	6106978	15	1	5.9	45.6	21.3	25	24.7	8.3
Ss10-421	592864	6107010	3.5	0.2	28.8	21.5	13.8	12	5.2	1
Ss10-422	593088	6106985	4.3	0.4	4.4	12.9	3.2	15	2.2	1.2
Ss10-423	592862	6107000	6.3	0.6	17.2	146.8	14.5	17	7.9	0.9
Ss10-424	592862	6106987	4.6	0.2	7.2	59.4	10.5	14	8.5	1.3

St	East	North	Au (ppb)	Ag (ppm)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)
Ss10-425	592859	6106978	7	0.2	18.5	25	13	12	8.1	1.1
Ss10-426	592858	6106970	6.4	1.2	12.4	38	12.6	10	12.1	1.6
Ss10-427	592857	6106962	3.9	0.2	28.6	65.3	13.7	29	4.1	0.7
Ss10-428	592857	6106954	7	0.5	16	35.4	19.4	22	70	1
Ss10-429	592856	6106940	3.8	0.2	51.8	97.9	18.6	32	43.7	2.6
Ss10-430	592855	6106929	3.2	0.2	5.1	96.2	12.9	48	15.6	1.1
Ss10-431	592856	6106917	1.6	0.2	79.4	147.1	9.7	25	8.9	1.2
Ss10-432	592856	6106907	5.1	0.3	36.9	175.9	10.4	29	16.5	2.4
Ss10-433	592859	6106896	3	0.2	16.5	13.5	10.5	23	5.8	1.1
Ss10-434	592862	6106885	1.8	0.1	10.4	424.4	21.1	27	2.9	1.8
Ss10-435	592862	6106878	2.7	0.3	62.2	92	11.3	24	11.5	2.5
Ss10-436	592863	6106866	4.6	0.4	41.7	31.6	18.2	26	12.7	1.9
Ss10-437	592897	6107017	3.1	0.3	4.9	34.9	10.1	13	2.2	0.4
Ss10-438	592908	6107020	6	0.3	15.2	95.2	9.2	23	8.1	1
Ss10-439	592915	6107017	7.6	0.4	14.8	160.6	15.1	40	25.2	4.9
Ss10-440	592925	6107020	5.1	0.6	18.2	80.3	5.8	28	9.8	1.2
Ss10-441	592943	6107018	7.6	0.2	8.6	23.3	2.8	8	1.4	0.6
Ss10-444	592966	6107017	14.6	0.4	13.6	68	6.4	13	2.6	4
Ss10-445	592976	6107022	7.4	1.2	50.2	284	5	18	9.8	1.5
Ss10-446	592985	6107022	3.5	2	10.8	55	12.9	13	24.3	38.7
Ss10-447	592994	6107023	9.9	0.7	20.8	978.6	29.9	36	10.7	2.8
Ss10-448	593002	6107024	2.3	0.1	12.1	15.3	4.9	10	1	0.8
Ss10-449	593012	6107026	7.3	1.1	7.1	29.3	5.6	9	2.9	1.2
Ss10-450	593020	6107020	32.8	4.9	55.8	407	4.9	13	3.2	2.2
Ss10-451	593028	6107022	2.9	0.8	6.3	38.6	12.4	14	6.7	2.5
Ss10-452	593037	6107025	32	0.2	4.5	111.1	27.2	16	7.4	2.7
Ss10-453	593046	6107027	2.3	0.3	9	25.1	10.5	17	2.1	0.7
Ss10-454	593049	6107033	9.5	0.5	14	40.8	24.2	34	29.9	7.6
Ss10-455	593055	6107036	4.7	0.2	5.9	15.8	9.1	15	5.8	1.8
Ss10-456	593061	6107039	8.5	0.4	4	7	7.3	7	3.6	1.1
Ss10-457	593063	6106918	4.1	1.2	37	409.9	11	21	12.9	9.8
Ss10-458	593056	6106920	24.7	3.4	75.6	1447.5	24.1	77	106.4	88.7
Ss10-460	593029	6106922	6.1	0.3	46.3	241.1	13.9	39	21.1	13.9
Ss10-461	593021	6106925	18.9	0.6	82	377.4	11.9	25	13	2.5
Ss10-462	593012	6106923	5.1	0.3	79.1	699.1	14.1	52	45.3	25
Ss10-463	593000	6106922	3.7	0.2	7.2	31.7	2.5	8	2.4	0.7
Ss10-466	592967	6106926	7.5	0.8	54.7	331.3	15.3	33	13.3	4.2
Ss10-467	592960	6106930	6	0.2	78	672.9	14.3	52	13.6	7.4
Ss10-470	592963	6106906	15.1	0.2	27.1	129.9	13.7	15	5.4	2
Ss10-471	592974	6106907	4.4	0.1	18.8	44.3	13.7	26	10	1.7
Ss10-472	592984	6106906	4.8	0.3	9.5	77.2	15.2	12	4.2	2.7
Ss10-473	592993	6106904	12.4	0.2	7.9	88	7.8	17	34	8.8
Ss10-474	593003	6106904	7.2	0.3	37.4	102.7	4.1	15	4.9	2.6
Ss10-475	593015	6106902	11.1	1.4	40.2	1405.2	14.9	106	43.3	29.5
Ss10-476	593025	6106898	9.5	0.3	20.4	116.2	14.2	24	5.6	3
Ss10-478	593041	6106895	34.8	0.3	20.2	117.9	9.8	17	8.8	6.5
Ss10-479	593048	6106895	351.9	93.7	160.4	3363.2	207.3	165	1160.3	>2000
Ss10-480	593056	6106897	9.8	1.9	28.6	451.6	11.7	14	20.1	18.8
Ss10-481	593064	6106898	13.9	1.7	49.2	383.3	11.5	36	36.6	32.2

Appendix D – Drill Logs

Drill logs were recorded using seven different tabs – Lithology, Fractures, Veining, Alteration, Mineralization, RQD and Surveys. Each TAB is listed for every drillhole in this appendix.

PC10-01 Fracture Log

PC10-01	Depth [m]	Zones and angle to core axis (tca)
Fractures		Core axis is about 60 degrees, dipping west.
		Two sets of fractures.
		45 to 60 tca, and 80 to 90 tca
		10 to 30 tca, and subparallel tca
	2.9 to 8.6	crushed rock w/ some section <30 unfractured core
	8.6 to 11.4	fractures at 80 to 90 tca, and at 45 tca
	11.4 to 16.9	fractured rock and fault zone w/ prop, ser and clay alt
		ss on Mo vein at 80 tca at 15.5, ss on py-Mo at 20 tca at 16.2
	16.9 to 26.6	fracture zone
	26.6 to 31.8	fracture zone, fault zone at 29.2
		ss on qtz-py at 20 tca at 26.6, 27.8, 31.3
	31.8 to 48.6	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
		fractured rock, ss on Mo vein at 20 tca at 38.4, ss on cc-py at
		30 tca at 41.8
	48.6 to 54.5	fracture zone w/ fault, gauge at 52.8
	54.5 to 63.7	fracture zone w/ ss at 30 tca at 63.5
	63.7 to 67	moderate fracture pattern
	67 to 86.8	fracture zone, ss at 30 tca at 67.1, 71.9, 72.2, 76.2,
	86.8 to 110.8	fractures at 70 to 90 tca, some at 20 to 30 tca
		ss on cc vein at 30 tca at 97
	110.8 to 119.6	fractures in alt zone parallel to 30 tca, some at 80 to 90 tca
	119.6 to 145.8	fracture zone due to high frequency of fractures at cc,
		at 30 tca and 30tca at 90 deg to the other set
		fault gauge at 129.2, 138.8, shattered rock at 140 to 140.7
	145.8 to 149.8	fractures at 30 tca
	149.8 to 157.8	fracture zone, shattered core from 152.4 to 154.7, fractures
		at 30 tca and 30tca at 90 deg to the other set
	157.8 to 166.6	fracture zone w/ shattered core, ss at 30 tca at 165. 4
	166.6 to 177.8	fractures at 70 to 90 tca, some parallel and at 20 to 30 tca
	177.8 to 178.13	fracture zone w/ shattered core
	178.13 to 186.8	fractures at 70 to 90 tca, some parallel and at 20 to 30 tca
	186.8 to 189.4	fracture zone w/ fault at 187.7
	189.4 to 209.3	fractures at 70 to 90 tca, some parallel and at 20 to 30 tca
	209.3 to 239.8	fractures at 45 qnd 80 to 90, cc-chl-hem at 20 tca w/ ss at
		222, 234
		ss on cc-chl at 90 tca at 218.2, 218.7, 231
		ss on py gauge at 30 tca at 238.8
	239.8 to 259.8	increased fractures subparallel tca on cc, cc-chl- cc-py-hem
		ss on cc-chl at 45 tca at 246.2
		ss on cc-chl at 10 tca at 252.5, 255.5
	259.8 to 270.6	fractures at 80 tca, some at 30 tca
	270.6 to 286	increased fractures at 30 tca
	286 to 295.4	additional fractures parallel tca from 286 to 287, 294.4 to 295.3
	295.4 to 304	fractures at 30 and 80 tca
	304 to 313.5	additional fractures parallel tca from 304 to 304.8, 312 to 313

PC10-01 Fracture Log

		ss on Mo vein 312 to 312.5
	313.5 to 348.5	fractures dominated by 30 to 40 tca, also 20 to 30 tca, and 80 to 90 tca
	348.5 to 350.8	additional fractures parallel tca on cc-hem and chl veins
	350.8 to 356.1	low fracture rate at 80 to 90 tca
	356.1 to 393.5	fracture zone w/ fault zones and alt zones
		ss on Mo at 10 tca from 357 to 359.5
		ss on cc-chl at 30 tca at 364, 366.7 to 369, 370.1, 371 to 372.5,
		fault w/ gauge at 375, 377.5, 379.7, from 384.8 to 385.6
	393.5 to 396.5	fractures at 30 and 80 tca
	396.5 to 402.2	fracture zone due to parallel fractures along cc-chl at 396.6
		and Mo-chl w/ ss from 401.1 to 402.2
	402.2 to 415.2	fracture zone due to high cc and cc-chl veining
		fault and alt zone
	415.2 to 434.2	less fractures due to pervasive alt zone, fracture tcas at 80 and 30
		some parallel qtz veins did not fail, some did
	434.2 to 444	broken core due to ser and clay alt. from 443 to 444 silicified rock
		w/ alt veining
	EOH	

PC10-01 Veining Log

PC10-01	Depth [m]	Veining with angle to core axis (tca)
Veining		Core axis is about 60 degrees, dipping west.
		Two main sets of fracture controlled veining w/qtz and cc <1mm.
		commonly py associated w/ cc and qtz veins
		Two sets of fractures.
		45 to 60 tca, and 80 to 90 tca
		10 to 30 tca, and subparallel tca
		qtz-py, qtz-py-cpy, and qtz-cpy at 90 tca or 30 to 45 tca
		Mo veins at 10 to 30 tca <1mm
	2.9 to 8.4	crushed rock
	8.4 to 29	qtz > cc veins, qtz veins 80 to 90 tca in fracture and fault zones
		cc veins mainly parallel to 30 tca. Mo associated w/ cc veins
		qtz veins carry py and or cpy at 80 to 90 tca and 30 to 45 tca
		hem w/ cc at 30 tca on some veins
	29 to 80.8	slightly increase of cc veins
		crosscutting mineralized veins at 19.95, 31.2, 37.9, 38.1
		stockwork like veining w/ and w/o fractures from 67.5 to 75
		parallel veining <10 cm qtz-py and qtz-cpy-py from 68 to
		w/ some sequences w/o mineralized veining
	80.8 to 110.8	qtz > cc, qtz-cc-py-Mo <2cm at 90 tca at 92.05
		qtz-cpy <6cm at 90 tca at 99.4
		qtz-cpy-py <1mm at 30 tca and 90 tca
		qtz-py <1mm at 80 to 90 tca, qtz-py <1cm at 30 tca at 89.5
		barren qtz <1cm and barren cc <2mm
	110.8 to 119.6	cc <3mm at 30 tca in alt zone
		qtz veins <1cm at 80 to 90 tca
		qtz-cpy <6cm at 70 tca at 116.4
		cc-py <6cm at 30 tca w/ vuggy cc at 111.8
		qtz-py <1cm at 30 tca at 111.05
	119.6 to 157.8	cc dominated veining <1mm at 30 tca
		act-tlc at 20 tca at 129.2, 137.6
		qtz-cpy-py <1cm w/ cpy >>py at 80 to 90 tca
	157.8 to 181.7	cc veining w/ hem causing fracture zones, cc-hem-py and cc-hem-py-cpy
		qtz-cpy-py <1cm w/ cpy >>py at 80 to 90 tca
		qtz-cpy-py <1mm w/ cpy >> py at 80 to 90 tca
		qtz-py-cpy <1mm at 80 to 90 tca from 163.3 to 168.7
		some qtz-py <1mm at 80 to 90 tca w/ hem pinking of fsp
	181.7 to 208	decrease of cc veining, strong cc veining in 20 cm fault zone at 187.7
		qtz-py <5mm at 20 tca at 182.4, 193.8
		qtz-py <1cm at 90 tca at 205.9
		qtz-cpy <5mm at 80 tca at 194.2 w/ massive cpy
		qtz-cpy-py <5mm at 80 tca at 198.2, 201, 202.3, 207.8
		some qtz+/-py+/-cpy <1mm at 80 to 90 tca
		qtz <1cm at 90 tca at 202.7, 207.3
	208 to 231	increase of cc veining w/ chl and hem
		qtz-cpy-py <1cm at 80 to 90 tca

PC10-01 Veining Log

		qtz-cpy-Mo at 80 tca at 215.8
		Mo at 30 tca at 216.1
231 to 246.7		qtz-cpy <1 mm and qtz -py <1mm forming mini stockwork w/ chl veins
		qtz-cpy-py <1.5cm at 30 tca w/ qtz-py <1cm at 30 tca at 245.6
246.7 to 249.8		qtz veining, qtz-py parallel tca w/ no fracture from 248 to 249
249.8 to 259.8		increased cc-chl+/-hem+/-py at 20 tca
		qtz-cpy-py <2mm at 20 tca at 258.2
259.8 to 271		veining at 80 tca
		qtz-py <1mm parallel tca 270 to 271
		qtz-cpy-py at 90 tca at 261.6
271 to 273.5		increased cc-chl+/-hem+/-py at 20 tca
273.5 to 288.9		very fine stockwork veining
		cc-chl <2mm at 30 tca
		qtz-py <5mm at 10 tca at 275.8
		qtz-cpy-py <3mm at 30 tca at 283.3
		Mo at 10 tca at 279.9
288.9 to 289.7		qtz veining in alt zone
289.7 to 299		fine stockwork veining
299 to 310.3		decrease of stockwork veining, rare qtz-py+/-cpy at 30 and 80 tca
310.3 to 313.5		cc-Mo at 80 and 30 tca
313.5 to 329.5		cc-hem and cc-chl equal qtz+/-py+/-cpy+/-Mo
		qtz-cpy <1cm at 80 tca at 314.1
		qtz-py <1cm at 321.2, 325.8
		qtz-cpy-py <1mm at 30 tca at 314.1
		qtz-Mo at 90 tca at 316, at 30 tca at 321.05
		some crosscutting qtz veins at different angles
329.5 to 344.2		increased stockwork veining w/ py and cpy
		cpy massive <1.2cm at 90 tca at 341.3
		cc-hem > cc-chl at 10 to 30 tca
344.2 to 352.2		qtz-Mo parallel tca additional to stockwork w/py-cpy
352.2 to 357		rare py veining at 30 and 80 tca
357 to 359		Mo-chl at 10 to 20 tca
359 to 387.5		increased cc veining w/ hem and chl
		cc <5mm at 30 tca from 366 to 369, at 372.3, from 378.8 to 382.7
		stockwork like veining w/o mineralization
387.5 to 397.3		some cc-hem-chl at 30 tca
397.3 to 402.2		cc-chl and cc-hem parallel and at 30 tca
		Mo-chl at 10 from 400.8 to 402.2
		qtz-cpy <1cm at 90 tca at 399
		qtz-cpy-py <1mm at 80 tca at 399.9
		some qtz-py <1mm stockwork like
402.2 to 415.2		cc veining and qtz veining
		cc-chl and cc-hem parallel and at 30 tca
		cc <3mm at 30 tca in alt zone
		qtz-cpy-py at 80 tca at 403.7, 408.3, 411.5
		qtz-py <1.5cm at 30 tca at 403.2

PC10-01 Veining Log

		qtz-py <1mm at 30 to 80 tca at 402.4, 415.05
		cc-py <2cm at 30 tca from 406 to 406.5
	415.2 to 443	cc veining +/-py <3mm parallel and at 30 tca dominant
		qtz-cpy-Mo <1cm at 80 tca at 420.95, 427.7, 428.8
		qtz-py <1cm at 80 tca at 431.4
		qtz-py <1mm at 80 tca
	443 to 444	cc-chl-py at 30 tca
	EOH	

PC10-01 Alteration

PC10-01	Depth [m]	Alteration Description
Alteration		
	2.9 to 8.4	hem on fractured core
	8.4 to 10.6	weak pinking of fsp
	10.6 to 29	pinking of fsp, slight ser alt, chl alt of bt and px
	29 to 29.4	ser alt and clay alt w/ cc in fault zone
	29.4 to 51	pinking of fsp, silicified sequence from 37.8 to 38.4
	51 to 54.5	ser alt and clay alt w/ cc in fault zone at 52.8
		prop alt from 51 to 54.5
	54.5 to 83.5	weak pinking of fsp
	83.5 to 92.8	prop alt and ser alt of fsp, bleaching around qtz veins at 80 to 90 tca
	92.8 to 110.8	weak pinking of fsp, bleaching around barren qtz<1cm at 80 tca at 113.4
	110.8 to 119.6	strong prop alt, ser and clay alt
	119.6 to 136.4	weak pinking of fsp, prop alt from 129.2 to 130 w/ act-tlc vein
		at 20 tca at 129.2
	136.4 to 141.8	prop alt and ser alt of fsp, act-tlc veins at 20 tca at 136.6 and 137.6
	141.8 to 216	weak pinking of fsp
		pinking of fsp around qtz+/-py+/-cpy veins at 80 to 90 tca
		ser alt around qtz-py <5mm at 20 tca
		prop alt <2cm around qtz-cpy at 80 to 90 tca from <1mm to <1cm
	216 to 242.9	increase of chl alt
		ser and prop alt from 224 to 228.2, qtz <1cm at 80 tca
		cc-chl <3mm at 30 tca
		prop alt from 238.5 to 242.9
	242.9 to 249.9	weak pinking of fsp
	249.9 to 271	weak pinking of fsp, weak ser alt, clay alt on some fractures at 30 tca
		prop alt <10cm around qtz veins
		prop alt from 258 to 259 w/ strong ser alt of veins
	271 to 286	increased prop alt
	286 to 288.9	weak pinking of fsp
	288.9 to 289.7	prop alt zone w/ qtz-cpy-py <2mm at 80 tca
	289.7 to 310.3	prop alt bands <10cm around qtz veins
		ep at 90 tca at 295.6
	310.3 to 313.5	increased ser alt w/ cc-Mo veining
	313.5 to 352.2	ser alt and pinking of fsp, chl alt of mafics, chl veins,
		cc-hem veins
		together w/ silicified stockwork veining
		prop alt <20cm around qtz veins, e.g. qtz-py <1cm at 90 tca at 325.8
	352.2 to 387.7	ser alt and pinking of fsp, chl alt of mafics, chl veins,
		cc-hem veins
		prop alt <20cm around qtz veins, e.g. qtz-py <1cm at 90 tca at 364.2
		prop alt from 372 to 377 w/ cc veining
		prop alt from 378 to 387 w/ cc veining
	387.7 to 402.2	weak pinking and chl alt of mafics
	402.2 to 415.2	prop alt zone w/ tlc and chl, possibly serp
	415.2 to 443	pervasive ser alt w/ cc veining, and silification w/ diss py +/-cpy
	443 to 444	silicified and ser and clay alt at cc veins
	EOH	

PC10-01 Mineralization

PC10-01	Depth [m]	
Mineralization	2.9 to 9.5	no visible mineralization
	9.5 to 10.8	qtz-cpy-py at 90 tca at 9.5
		qtz-py at 90 tca at 9.7, 10
	10.8 to 15.4	qtz-py parallel tca at 12.1
		no other mineralization visible in brecciated and altered zone
	15.4 to 16.8	Mo <1mm at 80 tca w/ ss at 15.5, Mo parallel tca w/ ss in fault
		zone at 16.2 w/ py in gauge
		qtz-py-cpy <5mm at 30 tca at 16
		diss py and qtz-py at 45 tca at 15.4 in prop alt
	16.8 to 39	qtz-cpy-py <2mm at 20 tca at 19.9, 21.2, 24.3, 25, 31.2, 31.25, 38.4
		qtz-py-cpy or qtz-cpy-py <1mm at 80 to 90 tca at 19.9, 21.3, 27.3,
		31.25, 36.2, 37.9, 38.05, 38.2, 38.95
		cc-Mo <1mm at 20 tca at 29, 38.4
		cc-Mo <1mm at 80 tca at 37 in mini fault w/ gauge
		qtz-cpy-py-Mo <1cm at 30 tca at 38.15
		qtz-py <1.5cm at 30 tca at 26.6
		qtz-py <3cm at 90 tca 36.3
		qtz-py <1mm at 30 tca w/ss at 36.3, 37.8
	39 to 55.4	qtz-py <1mm at 70 to 90 tca
		qtz-py <1mm at 30 tca w/ss at 41.8
		qtz-py <1cm at 90 tca at 43.7
		qtz-cpy-py <1cm at 90 tca at 46.7
		qtz-cpy-py <1mm at 80 tca at 53.3
		cc-Mo-py <1mm at 30 tca at 43.3
	55.4 to 67.5	qtz-py <1cm at 90 tca at 56.3, 56.5, 67.2
		qtz-py <1cm at 30 tca at 55.4, 65.9
		qtz-cpy-py <1cm at 90 tca at 58, 59.9
		qtz-cpy-py <1mm at 80 tca at 65.1
		qtz-py <1mm at 80 to 90 tca , crosscutting 30tca, and parallel
		veining at 30 tca
	67.5 to 80.8	stockwork like veining, mainly qtz-py <1mm
		some parallel veining w/ 5 mm spacing at 30 tca, eg at 74.8, 78.8
		w/ some crosscutting at 80 tca w/o fracturing
		qtz-cpy-py <1cm at 90 tca at 71.05
		qtz-cpy-py <1mm at 80 to 90 tca at 68.85, 68.95, 72.95,
		cc-Mo at 30 tca at 67.6, 71.1
	80.8 to 110.8	qtz-cpy <6cm at 90 tca at 99.4
		qtz-cpy-py <1cm at 90 tca at 82.2
		qtz-cpy-py <1mm at 80 to 90 tca at 81.8, 86.5, 90.7, 91.1, 100.6,
		102.4,
		qtz-cpy-py at 30 tca at 90.1
		qtz-cc-py-Mo <2cm at 90 tca at 92.05
		Mo <1mm at 30 tca at 107.8
		qtz-py at 90 tca, qtz-py <1cm at 30 tca at 89.5
	110.8 to 123.2	qtz-cpy <6cm at 70 tca at 116.4, massive cpy

PC10-01 Mineralization

	qtz-cpy <2mm at 123.2
	cc-py <6cm at 30 tca w/ vuggy cc at 111.8
	qtz-py <1cm at 30 tca at 111.05
	Mo w/ qtz and cc, py pods <1cm in schlieren and subparallel to 30 tca possibly tennantite/tertahedrite
123.2 to 133.6	rare py veins
133.6 to 143.1	qtz-cpy-py <1cm w/ cpy >>py at 80 to 90 tca at 133.6, 138.4, 141.5 142.05, 142.9, 143.05
143.1 to 151.8	rare py veins
151.8 to 154	qtz-cpy-py <1mm at 80 tca at 151.8, 154
154 to 164.7	rare py veins
164.7 to 221.4	qtz-cpy-py <1cm w/ cpy >>py at 80 to 90 tca at 164.7, 164.8, 164.85, 170.15, 195.1
	mini stockwork from 164.7 to 164.9 w/ 80 to 90 tca and 30 tca qtz-cpy-py <1mm w/ cpy >> py at 80 to 90 tca at 164.9, 173.9, 174.3, 177.5, 181.7, 184.7, 193.3, 195, 198.3, 201, 207.9, 211.5 218.2, 221.3
	qtz-py-cpy <1mm at 80 to 90 tca from 163.3 to 168.7
	qtz-py-cpy <1cm at 90 tca at 202.3
	qtz-py <5mm at 20 tca at 182.4, 193.8
	qtz-py <1cm at 90 tca at 205.9
	qtz-cpy <5mm at 80 tca at 194.2 w/ massive cpy some qtz-py <1mm at 80 to 90 tca w/ hem pinking of fsp pyrrhothite diss at 195.65
	cpy diss in ser alt around qtz-py <5mm at 20 tca at 193.8
	possibly some Mo in qtz-py <1mm at 80 to 90 tca
	qtz-cpy-Mo at 80 tca at 215.8
	Mo at 30 tca at 216.1
	qtz-py-Mo at 45 tca in bleached 10 cm band at 205.3
221.4 to 227.8	no visible mineralization in alt zone
227.8 to 228.2	qtz-cpy <1cm at 80 tca w/ other qtz <1cm in prop alt
228.2 to 235.6	rare py veins
	qtz-py <2mm at 80 tca at 233.3
	cc-chl+/-hem+/-py
235.6 to 246.7	qtz-cpy <1 mm and qtz -py <1mm forming mini stockwork w/ chl veins qtz-cpy-py <1.5cm at 30 tca w/ qtz-py <1cm at 30 tca at 245.6
	qtz-py-Mo at 80 tca at 246.3
246.3 to 257.7	rare py veins
257.7 to 258.4	qtz-cpy ay 80 tca at 257.7
	qtz-cpy-py <2mm at 20 tca at 258.2
	Pods <1cm of vuggy py at 250.8
258.4 to 274.6	qtz-py-cpy at 90 tca at 261.7
	Pods <1cm of vuggy py at 262.3
	rare py veins
	qtz-py parallel tca 270 to 271 crosscutting qtz-py at 80 tca
274.6 to 286	fine stockwork veining

PC10-01 Mineralization

		qtz-py <5mm at 10 tca at 275.8
		qtz-cpy-py <3mm at 30 tca at 283.3
		Mo at 10 tca at 279.9
	286 to 310.3	rare mineralization
		qtz-py-cpy <1mm at 90 tca at 289.6
		qtz-py-cpy <1mm at 40 tca at 494
		diss py along parallel qtz-py vein from 294.4 to 295.3
	310.3 to 313.5	cc-Mo veins at 10 to 40 tca from 310.3 to 312.5
	313.5 to 329.5	cc-hem and cc-chl equal qtz+/-py+/-cpy+/-Mo
		qtz-cpy <1cm at 80 tca at 314.1
		qtz-py <1cm at 321.2, 325.8
		qtz-cpy-py <1mm at 30 tca at 314.1
		qtz-Mo at 90 tca at 316, at 30 tca at 321.05
		some crosscutting qtz veins at different angles
	329.5 to 335.5	increased stockwork veining w/ py and cpy
	335.5 to 344	stockwork veining w/o py-cpy, only hem
		cpy massive <1.2cm at 90 tca at 341.3
	344 to 352.2	qtz-Mo parallel tca additional to stockwork w/py-cpy
		at 10, 30, 45, 80 to 90 tca
	352.2 to 381	weak mineralization
		qtz-cpy-py at 80 tca at 375.2
		qtz-py <1cm at 90 tca at 364.2
		rare py veins
		Mo-chl at 10 to 20 tca from 357 to 359
	381 to 388.8	qtz-cpy <1mm at 80 tca at 381, 384.7, 384.8, 388.7
		qtz-py <1mm at 10 to 90 tca, rare
	388.8 to 397.3	no visible mineralization
	397.3 to 402.2	Mo-chl at 10 from 400.8 to 402.2
		qtz-cpy <1cm at 90 tca at 399
		qtz-cpy-py <1mm at 80 tca at 399.9
		some qtz-py <1mm stockwork like
	402.2 to 415.2	qtz-cpy-py at 80 tca at 403.7, 408.3, 411.5
		qtz-py <1.5cm at 30 tca at 403.2
		qtz-py <1mm at 30 to 80 tca at 402.4, 415.05
		cc-py <2cm at 30 tca from 406 to 406.5
		diss py 10cm at 403.3
	415.2 to 443	diss py throughout, diss cpy at 428.7
		diss cpy at 428.7, from 432.8 to 443
		cc veining +/-py <3mm parallel and at 30 tca dominant
		qtz-cpy-Mo <1cm at 80 tca at 420.95, 427.7, 428.8
		Mo at 45 tca at 420.05
		pyrrhothite diss and pods from 219 to 220
		qtz-py <1cm at 80 tca at 431.4
		qtz-py <1mm at 80 tca
	443 to 444	cc-chl-py at 30 tca
	EOH	

PC10-01 RQD

Depth [m]	unfractured	[%]	Length	Recover
3	0	0.0	0.4	n.a.
6	0.1	5.7	1.75	58.3
9	0.87	29.0	3	100.0
12	1.79	59.7	3	100.0
15	0.47	15.7	3	100.0
18	2.66	88.7	3	100.0
21	1.9	60.7	3.13	104.3
24	0.71	24.4	2.91	97.0
27	0.82	26.2	3.13	104.3
30	0.6	19.4	3.1	103.3
33	1.25	41.7	3	100.0
36	1.72	60.1	2.86	95.3
39	1.65	53.1	3.11	103.7
42	1.38	45.5	3.03	101.0
45	1.88	64.4	2.92	97.3
48	1.82	56.0	3.25	108.3
51	1.34	47.2	2.84	94.7
54	0.9	30.8	2.92	97.3
57	0.98	32.7	3	100.0
60	2.08	74.3	2.8	93.3
63	1.49	49.7	3	100.0
66	2.09	68.8	3.04	101.3
69	1.31	44.3	2.96	98.7
72	2.16	67.7	3.19	106.3
75	1.26	43.6	2.89	96.3
78	1.66	56.3	2.95	98.3
81	1.19	39.3	3.03	101.0
84	1.35	44.9	3.01	100.3
87	0.89	28.5	3.12	104.0
90	2.35	79.4	2.96	98.7
93	2.16	70.1	3.08	102.7
96	2.44	82.2	2.97	99.0
99	2.51	81.5	3.08	102.7
102	1.88	63.7	2.95	98.3
105	1.58	52.1	3.03	101.0
108	1.97	64.4	3.06	102.0
111	2.26	76.1	2.97	99.0
114	1.6	52.6	3.04	101.3
117	1.38	46.0	3	100.0
120	1.54	51.3	3	100.0
123	0.73	24.6	2.97	99.0
126	1.73	56.7	3.05	101.7
129	0.74	25.4	2.91	97.0
132	1.62	54.0	3	100.0
135	2.33	76.4	3.05	101.7

PC10-01 RQD

Depth [m]	unfractured	[%]	Length	Recover
138	0.92	29.9	3.08	102.7
141	0.66	22.1	2.98	99.3
144	1.28	42.7	3	100.0
147	1.84	61.3	3	100.0
150	2.42	80.7	3	100.0
153	0.8	26.8	2.98	99.3
156	0.5	18.2	2.74	91.3
159	1.15	36.5	3.15	105.0
162	0.1	3.2	3.1	103.3
165	0.2	6.5	3.1	103.3
168	1.04	34.7	3	100.0
171	1.44	48.0	3	100.0
174	1.85	58.7	3.15	105.0
177	2.09	72.1	2.9	96.7
180	1.58	52.7	3	100.0
183	1.33	46.8	2.84	94.7
186	1.48	49.3	3	100.0
189	0.8	26.7	3	100.0
192	1.54	55.6	2.77	92.3
195	1.96	66.0	2.97	99.0
198	2.72	90.7	3	100.0
201	2.38	78.0	3.05	101.7
204	2.41	80.3	3	100.0
207	2.19	74.0	2.96	98.7
210	1.6	52.5	3.05	101.7
213	2.12	69.1	3.07	102.3
216	1.65	55.6	2.97	99.0
219	1.77	59.0	3	100.0
222	1.32	43.7	3.02	100.7
225	2.08	69.3	3	100.0
228	2.27	74.7	3.04	101.3
231	2.16	71.3	3.03	101.0
234	2.25	74.8	3.01	100.3
237	1.79	59.3	3.02	100.7
240	2.23	74.6	2.99	99.7
243	1.05	35.2	2.98	99.3
246	1.49	49.3	3.02	100.7
249	2.58	86.6	2.98	99.3
252	1.65	54.8	3.01	100.3
255	1.95	64.8	3.01	100.3
258	1.75	61.4	2.85	95.0
261	2.13	63.0	3.38	112.7
264	2.64	89.5	2.95	98.3
267	1.94	64.0	3.03	101.0
270	2.31	77.8	2.97	99.0

PC10-01 RQD

Depth [m]	unfractured	[%]	Length	Recover
273	2.52	86.6	2.91	97.0
276	2.55	83.6	3.05	101.7
279	2.06	67.3	3.06	102.0
282	2.81	92.4	3.04	101.3
285	1.39	47.9	2.9	96.7
288	1.23	40.6	3.03	101.0
291	1.01	33.0	3.06	102.0
294	2.83	96.6	2.93	97.7
297	1.46	51.6	2.83	94.3
300	2.82	91.9	3.07	102.3
303	2.29	76.6	2.99	99.7
306	1.57	52.3	3	100.0
309	2.1	69.5	3.02	100.7
312	2.01	65.5	3.07	102.3
315	1.72	58.3	2.95	98.3
318	1.73	56.9	3.04	101.3
321	1.76	58.7	3	100.0
324	1.77	62.5	2.83	94.3
327	1.89	63.9	2.96	98.7
330	1.44	47.1	3.06	102.0
333	2.33	76.4	3.05	101.7
336	1.97	65.7	3	100.0
339	1.16	39.7	2.92	97.3
342	1.53	51.2	2.99	99.7
345	2.29	74.8	3.06	102.0
348	2.2	69.6	3.16	105.3
351	1.17	37.4	3.13	104.3
354	2.4	75.9	3.16	105.3
357	2.28	76.0	3	100.0
360	0.73	24.3	3	100.0
363	0.54	18.2	2.96	98.7
366	0.87	28.6	3.04	101.3
369	1.36	45.3	3	100.0
372	1.2	38.7	3.1	103.3
375	1.48	49.3	3	100.0
378	1.58	52.7	3	100.0
381	1.03	34.3	3	100.0
384	1.86	59.6	3.12	104.0
387	0.99	33.0	3	100.0
390	1.52	51.0	2.98	99.3
393	1.53	50.2	3.05	101.7
396	2.39	78.6	3.04	101.3
399	1.02	35.2	2.9	96.7
402	1.86	62.0	3	100.0
405	1.13	40.9	2.76	92.0

PC10-01 RQD

Depth [m]	unfractured	[%]	Length	Recover
408	1.02	34.0	3	100.0
411	0.51	17.0	3	100.0
414	1.4	47.8	2.93	97.7
417	1.54	48.1	3.2	106.7
420	1.76	58.7	3	100.0
423	1.96	64.5	3.04	101.3
426	2.06	68.7	3	100.0
429	2.67	87.5	3.05	101.7
432	2.24	74.2	3.02	100.7
435	1.27	42.8	2.97	99.0
438	0.49	16.3	3	100.0
441	0.99	33.6	2.95	98.3
444	0.93	30.4	3.06	102.0
EOH				

PC10-01 Surveys

Depth [m]	Az	Dip	Mag Field
0	260	60	
30	227.2	65.1	54952
60	259.1	58.5	54955
90	226.5	59.5	54986
120	229.2	64.7	54664
150	255.1	61.3	54614
180	242.9	57.2	54673
210	245.1	57.1	55485
240	239.9	57.6	54547
270	232.1	58.7	54965
300	264.4	55.9	54725
330	256.1	55.8	54892
360	237.2	58.2	54485
390	257.9	55.4	54666
420	268.1	65.3	54629

PC10-02 Lithology

HoleID	Depth [m]	Rock Code	Description
PC10-02	0 to 1.6	OVB	Overburden
PC10-02	1.6 to EOH	DIO	Diorite w/ bt <1mm, elongated px <1mmx4mm, fsp <3mm, interstitial qtz
			Core is slightly magnetic, indicating the abundance of magnetite.
	4.3		Fine grained, gray, rounded fragment parallel to c.a., 25 cm
	10		Fine grained, gray, rounded fragment parallel to c.a., 2 cm

PC10-02 Fracture Log

PC10-02	Depth [m]	Zones and angle to core axis (tca)
Fractures		Core axis is about 60 degrees, dipping west.
	1.6 to 11.6	Two sets of fractures.
		45 to 60 tca
		80 to 90 tca
	11.6 to 11.8	fracture zone (crushed rock)
	11.8 to 16	45 to 60 tca and 80 to 90 tca
	16 to 16.5	fracture zone with fractures subparallel tca
	16.5 to 19.1	45 to 60 tca and 80 to 90 tca
	19.1 to 19.4	brecciated rock, highly altered
	19.4 to 19.9	45 to 60 tca and 80 to 90 tca
	19.9 to 27	fault zone w/ slickensides at 85 and 15 tca
		fractures often around 90 tca or subparallel tca on clay layer
	27 to 31.5	45 to 60 tca and 80 to 90 tca
	31.5 to 35.7	fracture zone
	35.7 to 38.3	45 to 60 tca and 80 to 90 tca
	38.3 to 39	Fractures and veining subparallel tca
	39 to 39.95	45 to 60 tca and 80 to 90 tca
	39.95 to 47.9	two sets of fractures.
	47.9 to 48.9	2 fractures at 80 tca
	48.9 to 49.2	fracture zone with 20, 20, 80 tca
	49.2 to 51	fractures at 80 tca
	51 to 51.5	fracture zone
	51.5 to 61.7	45 to 60 tca and 80 to 90 tca
	61.7 to 62.2	fracture zone
	62.2 to 63.2	80 to 90 tca
	63.2 to 64	fracture zone with open fractures and calcite crystals
	64 to 80	45 to 60 tca and 80 to 90 tca
	80 to 86.1	Fracture zone with slickensides on fracture surface at 10 to 30 tca at 80, 81, 81.5, 85, 86
	86.1 to 96	fractures at 80 tca
	96 to 96.4	fracture zone with slickensides at 80 tca
	96.4 to 102	45 to 60 tca and 80 to 90 tca
	102 to 105.7	fracture zones and alteration zones w/ veining
	105.7 to 114.2	45 to 60 tca and 80 to 90 tca
	114.2 to 114.6	fractures 80 to 90 tca in alteration zone
	114.6 to 117.8	45 to 60 tca and 80 to 90 tca
	117.8 to 119	slickensides on 80 tca
	119 to 119.8	fractures 80 to 90 tca in alteration zone
	119.8 to 120.1	slickensides at 30 tca w/cc
	120.1 to 125	rare fractures at 45 and 90 tca
	125 to 130.8	45 to 60 tca and 80 to 90 tca
	130.8 to 132.2	fracture zone w/ ss at 10 tca at 131.8, ss at 30 tca at 132.1
	132.2 to 139.9	45 to 60 tca and 80 to 90 tca
	138.9 to 145.2	moderate fractured rock w/ss at 140, 142, 145 at 30 tca
	145.2 to 170.5	45 to 60 tca and 80 to 90 tca, 30tca at 150.5, 151.7, 162.5, 164, 166.3, 168.5
	170.5 to 176.1	fracture zone
	176.1 to 180.2	45 to 60 tca and 80 to 90 tca
	180.2 to 184.4	fracture zone

PC10-02 Fracture Log

	184.4 to 193.6	45 to 60 tca and 80 to 90 tca
	193.6 to 195.8	fracture zone w/ss at 10 tca at 195.5
	195.8 to 197.8	rare fractures at 45 and 90 tca
	197.8 to 237	45 to 60 tca and 80 to 90 tca
		ss in cc vein at 214.1 at 45 tca
	237 to 237.2	shattered rock
	237.2 to 240	45 to 60 tca and 80 to 90 tca
	240 to 241.3	10 to tca, Mo veins
	241.3 to 247.4	45 to 60 tca and 80 to 90 tca
	247.4 to 247.6	ss on Mo vein 20 tca
	247.6 to 256	45 to 60 tca and 80 to 90 tca, ss on cc vein at 252 at 30 tca,
		ss ubparallel tca from 251 to 252
	256 to 259.7	fracture zone w/ shattered rock and clay and ser alt
	259.7 to 263	sequences w/ shattered rock due to subparallel fractures and the standard set
	263 to 267.2	45 to 60 tca and 80 to 90 tca
	267.2 to 287.4	45 to 60 tca and 80 to 90 tca
		w/ sequences of subparallel fractures and fracture zones < 30cm
	287.4 to 287.8	fracture zone
	287.8 to 297.7	45 to 60 tca and 80 to 90 tca
		w/ sequences of subparallel fractures and fracture zones < 30cm
	297.7 to 299.9	frcture zone
	299.9 to 301.4	45 to 60 tca and 80 to 90 tca
	301.4 to 304.5	fracture zone
	EOH	

PC10-02 Vein Log

PC10-02	Depth [m]	Veining with angle to core axis (tca)
Veining		Core axis is about 60 degrees, dipping west.
	1.6 to 11.6	Two main sets of fracture controlled veining w/qtz and cc <1mm.
		qtz and calcite equally down to 93m
		45 to 60 tca
		80 to 90 tca
	11.6 to 11.8	fracture zone w/ qtz and cc veining <1mm
	11.8 to 16	45 to 60 tca and 80 to 90 tca
	16 to 16.5	fracture zone with qtz-chl veins subparallel tca
	16.5 to 19.1	45 to 60 tca and 80 to 90 tca
	19.1 to 19.4	brecciated rock, highly altered, qtz veins <1cm at 90 tca
	19.4 to 19.9	45 to 60 tca and 80 to 90 tca
	19.9 to 27	fault zone w/ slickensides at 85 and 15 tca
		fractures often around 90 tca or subparallel tca on clay layer
		qtz and qtz-cc veins 1 to 1.5 cm at 45 and 90 tca
	27 to 31.5	45 to 60 tca and 80 to 90 tca
	31.5 to 35.7	fracture zone w/ cc veining <1mm
	35.7 to 38.3	45 to 60 tca and 80 to 90 tca
	38.3 to 39	Fractures and qtz <1mm veining subparallel tca
	39 to 39.95	45 to 60 tca and 80 to 90 tca
	39.95 to 47.9	fracture zone w/ qtz-chl <1mm veining
	47.9 to 48.8	no veining
	48.8 to 63.2	qtz and qtz-cc veins 1 to 1.5 mm at 45 and 90 tca, 55.5 qtz-py 1cm
	63.2 to 64	cc vein at 20 tca w/ cc crystals <4mm
	64 to 89.2	qtz and qtz-cc veins 1 to 1.5 mm at 45 and 90 tca, 66 qtz-cpy 1cm at 45 tca
	89.2 to 93	qtz and qtz-py veins 80 tca have up to 4 cm alteration zones incl chl and ser
	93 to 98.2	qtz and qtz-py dominant over cc
	98.2 to 114.2	qtz, qtz py, and cc-py veining. Qtzcpy at 98.2 w/ 6 cm alt zone
	114.2 to 114.5	veining at 80 tca in alt zone w/ qtz-cpy veins
	114.5 to 119	qtz-py vein at 115.7 at 90 tca. Qtz > cc, veins w/ chl and hematite
	119 to 119.4	qtz-py veins at 80 tca in alt zone
	119.4 to 145.2	cc veins dominant over qtz veins, qtz mainly in veinlets and crackles
		qtz-cpy-py vein 90 tca below ss fracture at 132.1
	145.2 to 162.2	qtz > cc, qtz-cpy+/-py 85 tca at 146.1 and 150.8
	162.2 to 278.8	qtz veins <1cm w/ py, py-cpy, or cpy in pods <1cm at 80 to 90 tca
		cc <1mm associated w/ py
		N-S striking w/ dip at 30 east
		cc w/ gypsum veins <1cm at 173.7 at 20 tca
		abundant qtz and cc veinlets, qtz > cc
		Mo veins <1mm at 30 tca at 240.2, 247.6
	278.7 to 298.6	rare qtz-py veins, qtz-cpy-py veins at 90 tca at 279.7, 289, 290.7
	298.6 to 302.9	qtz-cpy veins at 90 tca at 297.1, 301.8, 302.05, 302.6, 302.65, 302.7, 302.9
		qtz-cpy-py veins <1mm at 30 tca at 297.1 cross cutting, 301.4, 301.7
		Mo vein w/ ss at 30 tca at 299.3
		rare qtz-py veins at 30 tca, qtz-py at 90 tca at 300.3

	302.9 to 304.5	rare Qtz-py veins
	EOH	

PC10-02 Alteration Log

PC10-02	Depth [m]	fine grained - fg
Alteration	1.6 to 7.8	No alteration of fsp visible in diorite.
	7.8 to 7.85	5 cm gauge w/ clay alt and py and fg sulphides not magnetic
	7.85 to 19.1	No alteration of fsp visible in diorite.
	19.1 to 19.4	Clay alteration, not magneic, w/ qtz veining and diss py brecciated rock
	19.4 to 20.3	No alteration of fsp visible in diorite.
	20.3 to 20.5	Sericite and clay alteration w/ sulphides and qtz veining
	20.5 to 21.15	No alteration of fsp visible in diorite.
	21.15 to 21.3	Sericite and chlorite alteration w/ sulphides and qtz veining
	21.3 to 89.2	No alteration of fsp visible in diorite. Some veins show bleaching.
	89.2 to 102	Alteration zones along qtz and qtz-py+/-cpy <6cm of chl and ser
	102 to 103.6	Ser and clay alt w/ qtz and cc veing, chl alt in weaker alt parts
	103.6 to 114.3	no alt visible
	114.2 to 114.5	Ser and clay alt w/ qtz-cpy veining
	114.5 to 127	Alt along qtz-py veins at 80 tca. No alt in diorite visible.
	127 to 127.8	ser and clay alt w/ qtz-py vein <1cm. Fractures at 70 to 90 tca.
	127.8 to 163.3	Alt along qtz+/-py+/-cpy veins at 80 to 90 tca. No alt in diorite visible.
	163.3 to 171	Bleaching of diorite w/ qtz-py-cpy veins <1cm from 165 to 167 pinking of fsp, chl alt of bt and px
	171 to 172	Ser, chl, and clay alt
	172 to 179	pinking of fsp, chl alt of bt and px
	179 to 184.5	ser alt of fsp, strong chl alt of bt and px
	184.5 to 189.5	pinking of fsp
	189.5 to 195.8	Bleaching of diorite, mainly around qtz veins <1cm, chl alt ser and clay alt in shear zone at 193.6 to 194
	195.8 to 201.6	pinking of fsp and chl alt of bt and px
	201.6 to 202.8	bleaching and chl alt w/ cc impregnation and diss cpy +/- py
	202.8 to 205.7	pinking of fsp and chl alt of bt and px
	205.7 to 206.2	bleached zone, crème w/ tint of red, qtz veinlets, no cc
	206.2 to 206.6	pinking of fsp and chl alt of bt and px. Qtz-cpy-py vein w/ cc <1mm and bleaching 5 cm
	206.6 to 213.3	weak pinking of fsp
	213.3 to 214.3	pinking of fsp and chl alt of bt and px, bleaching and ser alt at 214.1 around cc vein at 45 tca w/ ss
	214.3 to 228.2	weak pinking of fsp
	228.2 to 235	weak pinking of fsp, and bleaching around cc veins at 45 tca py-cc vein at 233.8 at 90 tca w/ bleaching rim
	235 to 297.7	weak pinking of fsp
	297.7 to 282.3	ser alt around several qtz veins at 70 to 90 tca ser zone w/ veins <50cm at 281
	282.3 to 304.5	qtz veining w/ ser-chl alt <1cm, qtz-py vein <1cm w/ fsp pinking at 300.3
	EOH	

PC10-02 Mineralization Log

PC10-02	Depth [m]	
Mineralization	1.6 to 5.8	qtz-cpy veins at 90 tca at 3.45, 5; at 20 tca at 5.15
		qtz-cpy vein <1cm at 5m.
	5.8 to 25.2	some qtz-py veins from 90 to subparallel tca <1mm
	25.2 to 26.6	qtz-cpy veins <1mm in fracture zone
		qtz-py vein <1cm at 80 tca at 26.2
	26.6 to 30.8	no mineralization visible
	30.8 to 39.6	qtz-cpy and qtz-py veins in fracture zones
		80 to 90 tca or subparallel tca
		qtz-py vein <1.5cm at 80 tca at 33.7
	39.6 to 42	no mineralization visible
	42 to 42.1	qtz-py vein at 90 tca
	42.1 to 63.2	some qtz-py and cc-py veins from 90 to subparallel tca <1mm
		51.4 qtz-cc-py-cpy veins, 1mm
	63.2 to 64	cc veins w/ vuggy cc crystals and py at 80 , 45 and 2 tca.
	64 to 66	some qtz-py and cc-py veins from 90 to subparallel tca <1mm
	66	qtz-cpy vein at 45 tca, 1 cm
	66 to 71.6	some qtz-py and cc-py veins from 90 to subparallel tca <1mm
	71.6 to 75.4	dissiminated pyrrhotite < 2 mm in diorite
	75.4 to 89.2	some qtz-py and cc-py veins from 90 to subparallel tca <1mm
	89.2 to 98.2	qtz-py veins > cc-py veins
	98.2 to 98.3	qtz-cpy vein w/ alt halo
	98.2 to 110.8	qtz-py veins > cc-py veins
	110.8 to 111	qtz-cpy+/- py <1mm at 20 tca
	111 to 114.2	qtz-py veins > cc-py veins
	114.2 to 114.5	qtz-cpy veins <1cm in alt zone
	114.5 to 119	qtz-py veins > cc-py veins
	119 to 119.4	qtz-py veins at 80 tca <3cm in alt zone.
	119.4 to 145.2	Mainly qtz-py and cc-py +/- chl <1mm
		Qtz-cpy at 90 tca at 132.2
		cc veins > qtz veins
	145.2 to 162.2	qtz veins > cc veins
		Qtz-cpy <2mm at 90 tca at 146.1, 150.8
		Mo veinlets <1mm subparallel tca at 160
	162.2 to 223.7	qtz veins <1cm w/ py, py-cpy, or cpy in pods <1cm at 80 to 90 tca
		N-S striking w/ dip at 30 east
		CC w/ gypsum veins <1cm at 173.7 at 20 tca
		qtz-cpy at 80 to 90 tca at 163.5, 165.7, 177.3, 175.2, 175.3, 180.6,
		183.7, 191.7, 191.8, 192.1, 193.1, 193.9, 195.3, 197.2, 200.8, 206.4
		210.3, 210.4, 218.4, 220.2, 220.4, 223.7
		disseminated cpy <0.5 cm from 202.4 to 202.8 in alt zone w/cc
		qtz-cpy veins <1mm at 20 to 30 tca at 215.1, 217.4
	223.7 to 233.8	mainly qtz-py and cc-py +/- chl <1mm, qtz-cpy-py vein <1cm at 225.8
	233.8 to 238.8	no visible mineralization
	238.8 to 272.2	some py on fractures at 30 to 45 tca
		cpy veinlet subparallel tca at 263.8

PC10-02 Mineralization Log

	272.2 to 276.6	some py at 30 to 45 tca, qtz-cpy <1cm at 272.2, 272.5, 272.6, 277.6
	276.6 to 279.7	no visible mineralization
	279.7 to 303.9	qtz-cpy-py veins at 90 tca at 279.7, 289, 290.7
		qtz-cpy veins at 90 tca at 297.1, 301.8, 302.05, 302.6, 302.65, 302.7, 302.9
		qtz-cpy-py veins <1mm at 30 tca at 297.1 cross cutting, 301.4, 301.7
		Mo vein w/ ss at 30 tca at 299.3
		rare qtz-py veins at 30 tca, qtz-py at 90 tca at 300.3
		rare qtz-py veins
	302.9 to 304.5	rare qtz-py veins
	EOH	

PC10-02 RQD

Depth [m]	unfractured	[%]	Length	Recover
3	1.26	78.8	1.6	n.a.
6	1.77	58.0	3.05	101.7
9	1.36	45.3	3	100.0
12	1.57	52.3	3	100.0
15	1.45	48.3	3	100.0
18	1.86	62.0	3	100.0
21	1.12	37.3	3	100.0
24	1.18	38.7	3.05	101.7
27	1.47	49.0	3	100.0
30	1.89	64.1	2.95	98.3
33	1.48	49.8	2.97	99.0
36	0.73	23.9	3.05	101.7
39	1.83	61.0	3	100.0
42	0.74	24.4	3.03	101.0
45	1.43	46.9	3.05	101.7
48	1.55	51.7	3	100.0
51	2.17	73.6	2.95	98.3
54	2.01	65.9	3.05	101.7
57	1.66	55.3	3	100.0
60	1.89	62.2	3.04	101.3
63	2.08	69.3	3	100.0
66	1.74	58.4	2.98	99.3
69	2.14	70.4	3.04	101.3
72	2.39	82.7	2.89	96.3
75	2.6	86.1	3.02	100.7
78	2.22	75.8	2.93	97.7
81	1.8	60.0	3	100.0
84	1.57	55.1	2.85	95.0
87	1.8	61.0	2.95	98.3
90	2.35	79.7	2.95	98.3
93	2.55	85.0	3	100.0
96	2.41	80.3	3	100.0
99	2.53	84.3	3	100.0
102	1.85	61.7	3	100.0
105	1.77	59.0	3	100.0
108	2.64	88.0	3	100.0
111	2.16	72.0	3	100.0
114	2.53	84.3	3	100.0
117	2.29	77.4	2.96	98.7
120	1.63	54.3	3	100.0
123	2.67	89.0	3	100.0
126	2.65	88.3	3	100.0
129	1.47	49.0	3	100.0
132	1.24	41.3	3	100.0

PC10-02 RQD

135	2.16	72.0	3	100.0
138	2.15	71.7	3	100.0
141	2.18	72.7	3	100.0
144	1.78	59.3	3	100.0
147	2.23	74.3	3	100.0
150	2.69	89.7	3	100.0
153	1.92	64.0	3	100.0
156	2.64	88.0	3	100.0
159	2.73	91.0	3	100.0
162	2.87	95.7	3	100.0
165	1.99	66.1	3.01	100.3
168	2.09	69.7	3	100.0
171	2.16	72.0	3	100.0
174	0.86	28.7	3	100.0
177	1.53	52.2	2.93	97.7
180	1.3	43.3	3	100.0
183	1	33.3	3	100.0
186	1.51	50.3	3	100.0
189	1.95	64.1	3.04	101.3
192	1.58	51.6	3.06	102.0
195	1.59	55.8	2.85	95.0
198	2.14	71.3	3	100.0
201	2.48	82.7	3	100.0
204	2.79	75.4	3.7	123.3
207	2.62	88.5	2.96	98.7
210	2.69	89.4	3.01	100.3
213	2.68	92.1	2.91	97.0
216	2.85	94.7	3.01	100.3
219	2.58	86.0	3	100.0
222	2.31	77.0	3	100.0
225	2.7	90.6	2.98	99.3
228	2.92	97.3	3	100.0
231	2.72	90.7	3	100.0
234	2.23	74.3	3	100.0
237	2.78	92.7	3	100.0
240	2.81	93.7	3	100.0
243	1.79	61.9	2.89	96.3
246	2.62	86.2	3.04	101.3
249	2.31	76.0	3.04	101.3
252	2.1	72.2	2.91	97.0
255	1.72	57.3	3	100.0
258	1.3	42.6	3.05	101.7
261	0.77	25.5	3.02	100.7
264	2.17	73.8	2.94	98.0
267	2.68	94.7	2.83	94.3

PC10-02 RQD

270	1.44	48.0	3	100.0
273	1.59	55.8	2.85	95.0
276	1.96	65.3	3	100.0
279	1.96	65.6	2.99	99.7
282	2.29	76.3	3	100.0
285	2.41	80.3	3	100.0
288	2.32	76.8	3.02	100.7
291	1.94	64.7	3	100.0
294	2.13	71.0	3	100.0
297	2.19	73.5	2.98	99.3
300	1.19	38.4	3.1	103.3
303	1.09	36.3	3	100.0
304.5	0.22	14.7	1.5	n.a.
EOH				

PC10-02 Surveys

Depth [m]	Az	Dip	Mag Field
0	270	60	
9	268.2	56.5	55593
39	251.7	57.9	54206
69	315.3	57	47282
72	265.7	60.4	55690
102	265.8	56	54786
132	232.8	61.4	54576
162	243.9	63.9	54825
192	236.2	63.4	55018
222	235	60.6	54960
252	269.2	57.7	54632
282	236.8	62.8	55813

PC10-03 Lithology

HoleID	Depth [m]	Rock Code	Description
PC10-03	0 to 1.9	OVB	Overburden
PC10-03	1.9 to EOH	DIO	Diorite w/ bt <1mm, elongated px <1mmx4mm, fsp <3mm, interstitial qtz
			Core is slightly magnetic, indicating the abundance of magnetite.
			Fine grained, gray, rounded fragments

PC10-03 Fracture Log

PC10-03	Depth [m]	Zones and angle to core axis (tca)
Fractures		Core axis is about 60 degrees, dipping west.
		Two sets of fractures.
		45 to 60 tca, and 80 to 90 tca
		10 to 30 tca, and subparallel tca
	1.9 to 3	crushed rock
	3 to 10.3	fractured rock
	10.3 to 16.8	fractures at 80 to 90 tca, and at 45 tca
	16.8 to 19.4	fracture zone
	19.4 to 27.9	fractures at 80 to 90 tca, and at 45 tca
	27.9 to 28.7	fractures alteration zone
	28.7 to 69	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	69 to 78.7	fracture zone due to fractures parallel tca and high frequency, ss at 20 tca at 76.1
	78.7 to 85.2	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	85.2 to 85.5	ss on Mo vein at 30 tca, fracture zone w/ cc veining
	85.5 to 116.95	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca ss on Mo-cc vein at 30 tca
	116.95 to 119.1	fracture zone w/ ss on cc vein at 30 tca
	119.1 to 144.5	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	144.5 to 158	fracture zone, ss on Mo vein at 30 tca at 147
	158 to 173.5	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	173.5 to 196.3	fracture zone w/ prop and ser alt and qtz-cpy veins ss on cc-Mo veins at 30 tca at 182.8, 189, 191.8 fault at 196
	196.3 to 214.4	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	214.4 to 214.8	fracture zone due to fractures at cc-py vein parallel tca
	214.8 to 239	rare fractures 90 tca and 30 tca along veins
	239 to 248	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca
	248 to 261	fractures at 20 tca cc and cc-Mo veins w/ ss from 250 to 252 crosscutting qtz vein <1mm at 45 and 80 to 90 tca, mini stockwork from 249.7 to 252 w/ fracture zone cc veins w/ chl sup-parallel tca from 251 to 261, crosscutting cc veins at 30 to 45 tca causing fracture zone from 252 to 261
	261 to 271.2	fractures at 20 to 45 tca, some at 80 to 90 tca
	271.2 to 291.4	fracture zone due to cc veining 10 to 30 and 80 to 90 tca and alt zones
	291.4 to 304.95	fractures at 80 to 90 tca, and at 45 to 60 tca, and 20 to 30 tca w/ section of broken core from 297.3 to 299.6
	304.95 to 315	fracture zone
	315 to 321.9	fractures at 80 to 90 tca
	321.9 to 368.2	fracture zone w/ intersections <2m w/ less broken core due to less fractures at 20 to 30 tca. ss on cc-chl at 30 tca 351 to 352 ss on chl at 30 tca and 30 tca 90 degree to first at 363.6

PC10-03 Fracture Log

368.2 to 423	fractures at 45 tca and 80 to 90 tca, some at 30 tca on cc-chl-hem veins
	410 to 417 increased fracture on parallel cc-chl and cc-hem at 45 tca
423 to 447.1	fracture zone w/ ser and prop alt
	fractures on cc-chl veins
	ss on Mo vein at 20 tca at 431.5,
447.1 to 452.3	fractures at 30 and 80 tca
452.3 to 461.4	fracture zone, factures mainly at 80 tca on cc-chl+/-hem+/-py
461.4 to 518.3	fractures at 30 and 80 tca at low rate, see RQD
	470.2 to 470.4 broken core due to fractures at 90 tca w/ ser-clay
	ss at 20 tca at 474.7
	fractures mainly along mineralized veins at 80 tca or on chl-py
	at 30 tca, Mo at 20 tca at 504.4
518.3 to 524	fractures parallel tca on cc-Mo <3mm w/ ss
524 to 536.5	increased fractures due to ser and prop atl and cc veining
	ss on Mo at 20 tca at 523.5
536.5 to 541	less fractures due to silification
541 to 551.2	increased fractures due to ser and prop atl and cc veining
	ss on chl at 80 tca at 545.6
551.2 to 582	less fractures due to silification and qtz-cpy-py stockwork
	ss in cc <3mm at 80 tca
EOH	

PC10-03 Vein Log

PC10-03	Depth [m]	Veining with angle to core axis (tca)
Veining		Core axis is about 60 degrees, dipping west.
		Two main sets of fracture controlled veining w/qtz and cc <1mm.
		commonly py associated w/ cc and qtz veins
		Two sets of fractures.
		45 to 60 tca, and 80 to 90 tca
		10 to 30 tca, and subparallel tca
		qtz-py, qtz-py-cpy, and qtz-cpy at 90 tca
		Mo veins at 10 to 30 tca <1mm
	1.9 to 11.2	fracture zone w/ qtz and cc veining <1mm
	11.2 to 12.4	qtz-py veins <1cm at 90 tca
	12.4 to 28	qtz and cc veins and veinlets
	28 to 34.4	qtz-py, qtz-py-cpy, and qtz-cpy at 90 tca
	34.4 to 48	qtz-py vein at 20 tca at 39.6, at 90 tca at 41.8, 47.8, 48.0
	48 to 63.2	qtz veins w/ cpy, py, +/- Mo at 10 to 20 tca
	63.2 to 68.8	qtz-py veins w/ py up to 2cm, bleaching and fsp pinking up to 20 cm
		at 45 tca at 63.2 w/ cpy, 68.6 w/ Mo
	68.8 to 82.2	qtz veins at 45 to 90 tca and cc veins at 30 to parallel tca
		some cc-py and qtz-py at 45 and 90 tca
	82.2 to 116.95	cc-Mo and cc-cpy-Mo veins <3mm at 30 tca, qtz-py <1cm at 90 tca +/- cc
	116.95 to 119.1	cc veining at 30 to parallel tca causing fracture zone w/ qtz +/- py <1mm at 80 tca
	119.1 to 181	cc veining at 30 tca <3mm, qtz veining <1cm at 80 to 90 tca, both can carry
		py, +/- cpy, Mo w/ cc and ss at 147
		felsic dike 10 cm at 30 tca at 146
	181 to 185	cc and qtz veinlets parallel tca in fracture zone, cc-Mo at 30 tca at 182.8
		qtz-cpy-py <1cm
	185 to 196.3	tlc vein at 30 tca at 186.3
		cc-Mo veins w/ ss at 30 tca at 182.8, 189.1, 191.8
		clay alt vein at 45 tca at 196
	196.3 to 235.6	cc-Mo and cc-cpy-Mo veins <3mm at 30 tca, qtz-py <1cm at 90 tca +/- cc
		qtz-cpy-py <1cm at 80 to 90 tca, increased qtz-cpy-py veins <1mm at 30 tca,
		qtz-py-cpy veins <1mm at 30 tca, cc-Mo veins at 30 tca,
		qtz-cpy-py veins at 80 to 90 tca younger than qtz-cpy-py veins at 30 tca,
		crosscutting at 223.2
		increase of qtz-cpy-py and qtz-py-cpy <1mm showing no fractures
		veining and veinlets almost stockwork, but wider spacing, in unaltered rock
	235.6 to 248.8	veining at 80 and 30 tca <1mm
	248.8 to 252	cc-chl +/- hem w/ Mo at 30 tca at 248.8, 250.1, 251.5 crosscutting qtz-py-cpy
		at 90 tca at 251.7
	252 to 261	cc veining causing fracture zone
	261 to 271.2	qtz veins +/- py at 80 to 90 tca, mainly no fractures
	271.2 to 291.4	cc veining <1mm, cc >> qtz, fracture and alt zones
		crosscutting qtz-py <1mm at 30 and 80 tca at 282.2, 288.1, 291.4
		qtz-cpy <1mm at 90 tca at 287.7
		qtz veins <5mm at 80 tca in prop alt zone 290.8 to 291.4
	291.4 to 303.9	decrease in cc veining, cc=qtz
	303.9 to 315	qtz veins <1.5 at 80 to 90 tca, barren at 303.9, some cpy-py, one w/ Mo-cpy
		cc-hem +/- py <1mm

PC10-03 Vein Log

315 to 344	cc-hem-chl +/-py <1mm at parallel, 20 to 30 tca, 80 to 90 tca dominant
	rare Qtz-py veins <1mm
	Qtz-py <5mm at 90 tca at 319.8, 337.6, 346.6
	Qtz-cpy-py <1mm at 90 tca at 322.7
	Qtz-cpy <3mm at 80 tca at 345.2
	Mo <2mm at 20 tca at 322
344 to 370	cc-hem <3mm at 30 tca at 350.2
	vuggy cc <2mm at 45 tca at 362
	vuggy py w/ cc at 80 tca at 352, 363.9
	cc-hem-chl +/-py <1mm at parallel, 20 to 30 tca, 80 to 90 tca dominant
370 to 423	increase of Qtz-py+/-cpy at 30 tca and 80 to 90 tca from <1mm to <1cm
	w/ pinking/hem
	cc-hem+/-py <2mm frequent
	stockwork veining w/ py+/-cpy
	Mo vein at 10 tca from 412 to 413
423 to 447.1	fracture and alt zone w/ chl and cc veins
	Mo at 20 tca at 433.7
	Mo at 30 tca, three directions, crosscut by Qtz-cpy <1cm at 437.6
	cc <3mm at 30 tca at 436.6
	Qtz-cpy <1mm at 90 tca at 439.7
	Qtz-py <2mm +/- cpy at 90 tca
	minor stockwork veining
447.1 to 461	cc <3mm at 30 tca at 450.2, crosscut by Qtz-cpy-py at 80 tca
	Qtz-py <1cm at 30 tca at 452.4
	Qtz-cpy <1mm at 80 and 30 tca at 450.2, 451.9 crosscutting
	rare Qtz-py veins <1mm
461 to 468.4	Qtz-cpy <1mm at 30 and 80 tca
	rare Qtz-py veins <1mm
	fractures along chl and cc-chl veins
468.4 to 514.1	decrease in cc veining, Qtz>>cc
	low density stockwork w/ Qtz-cpy-py <1mm
	Qtz-cpy-py <1cm at 80 to 90 tca
	chl-py <1mm at 20 to 30 tca
514.1 to 535.1	increased cc veining, barren Qtz <2mm at 80 to 90 tca
	barren Qtz <1cm at 527.8, Qtz-py <1cm at 80 tca at 527.1
	increased fractures due to ser and prop alt and cc veining
	cc-Mo vein parallel tca from 518.3 to 524
	some Qtz-cpy-py <1mm and <1cm at 80 to 90 tca
	Qtz-py <1mm at 30 and 80 tca
535.1 to 541	slightly increased Qtz-cpy-py <1mm at 70 to 90 tca
	Qtz-py <1.5 cm at 90 tca at 541
541 to 551.2	cc veining, rare Qtz-py <1mm
551.2 to 582	Qtz stockwork veining w/ cpy and py
	some cc-chl-py <1mm at 30 tca
	Qtz-py-Mo < 1cm at 80 tca at 569.3
EOH	

PC10-03 Alteration Log

PC10-03	Depth [m]	
Alteration	1.9 to 27.9	weak pinking of fsp
	27.9 to 28.7	alt zone w/ chl and clay alt
		not magnetic
	28.7 to 63.8	weak pinking of fsp
		ser and chl alt around qtz veins +/- cc and py and cpy
	63.8 to 64.8	chl and ser alt +/- clay alt
	64.8 to 65.8	clay alt in vein at 90 tca at 65, propylitic alt in vein at 90 tca at 65.7, 65.8
	65.8 to 73.6	propylitic alt zones 45 tca at 66.8 to 67.8 w/ diss py, 73.1 to 73.5
		strong pinking around qtz-py +/- Cpy +/- Mo at 63.2, 68.6
	73.6 to 144.5	weak pinking of fsp, prop alt around qtz veins <1mm at 45 tca
		prop alt band 20 cm at 45 tca
		weak prop alt from 97.5 to 101
		ser alt of fsp around qtz-py and qtz-cpy veins <1cm at 90 tca
	144.5 to 161.3	ser alt of fsp in fracture zone and below
		prop alt in fracture zone from 147 to 153
	161.3 to 176.5	weak pinking of fsp, prop alt around veins mainly at 90 tca
	176.5 to 179.7	prop alt and ser alt of fsp
	179.7 to 194.5	weak pinking of fsp, prop alt around veins mainly at 90 tca
	194.5 to 196.5	prop alt along zone w/ close spaced <1cm qtz veining <1mm
		at 80 tca, clay alt <10cm at fracture at 45 tca at 196
	196.5 to 208	weak pinking of fsp, prop alt around veins mainly at 90 tca
		15 cm prop alt around qtz vein <1cm at 60 tca at 198.8
	208 to 217.8	increased pinking of fsp, prop alt w/ chl of bt and px,
		bleaching from 208.2 to 209.8, frequent prop alt around
		qtz veins at 80 to 90 tca
	217.8 to 255.9	weak pinking and ser alt of fsp
	255.9 to 271.2	weak pinking and ser alt of fsp, chl alt of bt and px
		some prop alt w/ hem and ep, cc, and chl along qtz veins at 80 tca
		ser and chl alt around qtz veins +/- cc and py
	271.2 to 291.4	ser and clay alt in fracture zone w/ cc veining, mini gauges
		chl and tlc alt of mafics
		qtz veins <5mm at 80 tca in prop alt zone from 290.8 to 291.4
	291.4 to 344	weak pinking and ser alt of fsp
		hem and chl on fracture surfaces w/cc
		fracture zone do not show ser and clay alt as above
		prop alt <10 cm sections
	344 to 368.4	increased cc veining
		weak pinking and ser alt of fsp
		weak chl alt of mafics, chl on vein surfaces causes fractures
	368.4 to 423	pinking of fsp due to fine stockwork veining
		from 389 to 391 ser alt of fsp w/ hem pinking
	423 to 447.1	pinking (stockwork), ser and prop +/- tlc alt in fracture zone
	447.1 to 514.1	weak pinking of fsp
		weak ser alt
		470.2 to 470.4 broken core due to fractures at 90 tca w/ ser-clay
	514.1 to 551.2	ser and prop alt around qtz veins
		527 to 528 ser alt zone
		increased chl on veins at 30 tca, some w/ cc
		536.5 to 541 silification
	551.2 to 582	pinking of fsp due to fine stockwork veining
		chl alt of mafics

PC10-03 Alteration Log

		silification and qtz veining
		pinking and high porosity in 5 cm band at 80 tca at 580
	EOH	

PC10-03 Mineralization Log

PC10-03	Depth [m]	
Mineralization	1.9 to 11.2	no visible mineralization
	11.2 to 12.4	qtz-py +/- cc <1cm at 80 to 90 tca at 11.2 and 12.4
	12.4 to 29.2	no visible mineralization
	29.2 to 39.5	qtz-cpy <1cm at 90 tca at 29.2
		qtz-py <1cm at 90 tca at 30.8, 39.4, 39.5
	39.5 to 48.0	qtz-py <1cm at 30 tca at 39.6, 41.8, 47.8, 48.0
	48.0 to 80.1	qtz-cpy <1mm at 10 to 20 tca at 48.05, 48.35, 49, 51.4, 52.4, 52.6,
		56.2, 59.6, 65.5 between two prop alt veins
		qtz-py-Mo-cpy at 80 tca <5cm, large pads <1cm at 63.3, 68.6
		diss cpy at 51 in alt zone,
		qtz-py <1cm at 90 tva at 54.3, 58.05 w/ cpy, 59.7, 63.4, 72, 77.9,
		78.05, 80.1
		diss py in prop alt zone at 67.5
	80.1 to 116.95	qtz-py-cpy <1cm at 90 tca at 93, 110.5
		Mo-cc veins <1mm at 30 tca at 85.5, 94.1, 115.7 w/py
		Mo-cpy-cc veins at 30 tca at 89.4, 105.1 < 3mm, 111.2
		diss cpy at 108.2 10 cm prop alt
		Mo-qtz at 90 tca in prop alt zone at 100.5 to 100.7
		qtz-py +/- cc <1cm at 80 to 90 tca abundant
		barren zones of <2m
	116.95 to 120.1	no visible mineralization
	120.1 to 151.9	cc-cpy <3mm at 30 tca at 128.7
		py-cpy veins <1mm at 70 to 90 tca at 121.1, 131.1, 133, 140.8
		cc-Mo at 30 tca w/ss at 146
		diss py in prop band 10 cm at 124.8
		rare py veins
	151.9 to 157.2	qtz-py-cpy <1cm at 90 tca at 151.9, 155.9, 156.8, 157.1
		py-cpy veins <1mm at 70 to 90 tca at 156.5, 157.2
	157.2 to 159.9	no visible mineralization
	159.9 to 177.0	qtz-py <1cm at 80 to 90 tca 159.9, 159.95, 162.6, 165, 170.55
		qtz-cpy-py <1cm at 80 to 90 tca at 162.65, 170.5, 170.6, 177
		qtz-py-cpy <1mm at 30 to 45 tca at 164.7, 169.1, 170.5, 170.7, 174.4
		qtz-py at 30 to 45 tca abundant
	177.0 to 183.4	rare py veins, Mo vein <1mm at 30 tca w/ ss at 182.8
		in fracture/fault zone w/ prop alt
	183.4 to 197.4	qtz-cpy +/-py <1cm at 80 to 90 tca at 183.3, 184.2, 186.8, 188.2,
		188.4, 190.1, 190.2, 193.4, 194, 195.8, 196.3, 198.3
		185.2, 194, 197.2, 197.4
		qtz-py at 30 to 45 tca and at 90 tca abundant
		Mo veins <1mm at 30 tca w/ ss at 188.9, 191.7
	197.4 to 217.4	qtz-cpy -py <0.5 cm at 80 to 90 tca at 200.1, 202.6, 202.7, 203.4,
		207.1, 213.1, 215,05
		qtz-cpy-py <1mm at 30 to 45 tca at 200.3, 200.5, 202, 209.8, 216.5
		Mo-cc veins <3mm at 30 tca at 207.4, 210.6

PC10-03 Mineralization Log

		some Qtz-py <1mm parallel to 20 tca
217.4 to 235.6		Qtz-cpy <1cm at 90 tca at 217.4
		Qtz-cpy-py and Qtz-py-cpy <1mm at 10 to 45 tca at 218.1, 222.8, 223.2, 223.8, 223.9, 234
		Qtz-cpy-py and Qtz-py-cpy <1mm at 80 to 90 tca at 221.4, 223.2, 223.4, 223.8, 224.2, 227.7, 228.2, 228.5, 230.4, 231.5, 233.2, 235.2
		235.6
		some Qtz-py <1mm parallel to 20 tca
235.6 to 239.6		Qtz-py +/- cpy (?) parallel to 20 tca
239.6 to 251.8		Qtz-cpy-py <5mm at 80 to 90 tca at 239.6, 242.05, 251.6
		cc-chl-Mo at 20 tca at 243.8, 250.1, 251.5, at 250.6 w/ cpy
		rare Qtz-py <1mm at 80 to 90 tca
251.8 to 281.1		rare Qtz-py <1mm at 80 to 90 tca
281.1 to 299		diss py 10cm in prop alt at 281.8
		Qtz-cpy-py <1mm at 80 to 90 tca at 287.7, 295.2, 298
		Qtz-cpy <1mm at 45 tca at 294.3
		Qtz-cpy-py <1cm at 90 tca at 298.9
299 to 304		no visible mineralization
304 to 314.5		Qtz-cpy-py <1cm at 80 to 90 tca at 312.5, 314.4, 314.5
		Qtz-cpy-py <1mm at 80 to 90 tca at 306.1, 312.6
		Qtz-cpy-py-Mo <1cm at 90 tca at 208.4
		Qtz-py <1mm 80 tca at 304.05, 304.25
314.5 to 353.1		Qtz-cpy-py <1mm at 90 tca at 322.7
		Qtz-cpy <3mm at 80 tca at 345.2
		Mo <2mm at 20 tca at 322
		Qtz-py <5mm at 90 tca at 315, 319.8, 337.6, 346.6
		rare Qtz-py veins <1mm
353.1 to 365.2		vuggy py w/cc at 80 tca at 352.1, 363.9
		Qtz-py <3mm crosscutting at 30 tca and 80 tca at 363.1
		Qtz-py-cpy at 80 tca at 354, 356.1
		start of stockwork
365.2 to 423		Qtz-py <3mm w/ massive py at 90 tca at 365.2
		Qtz-cpy-py <1mm at 30 tca at 369.9, 376.2, 376.5, 378.4, 386.9
		Qtz-cpy <1mm at 90 tca at 370, 377.4
		Mo at 30 tca at 385.4
		Mo at 10 tca from 412 to 413
		Qtz-py <1mm at 30 tca and 80 to 90 tca w/ pinking at contact
		Qtz-py <1cm at 90 tca at 325.2, 373.5, 383.8, 387.4, 388.3, 389.35
		Qtz-py-cpy stockwork veining dominant from 390, less <1cm
		decrease of stockwork and other veining from 417.5 to 423
423 to 431.6		rare mineralization
		Qtz-cpy-hem at 30 tca at 427.5
431.6 to 439.7		Mo <1mm at 20 tca w/ ss at 431.7
		Mo at 30 tca, three directions, crosscut by Qtz-cpy <1cm at 437.6
		Qtz-cpy <1mm at 80 to 90 tca at 434, 439.7

PC10-03 Mineralization Log

		qtz-py at 30 and 90 tca
		minor stockwork veining
	439.7 to 448.7	qtz-py at 90 tca at 441.9
	448.7 to 451.9	qtz-cpy <1mm at 80 tca at 448.7, 451.9
		qtz-cpy <1mm at 30 tca at 451.9
	451.9 to 461.3	qtz-py <1cm at 30 tca at 452.3
		qtz-py <2mm at 90 tca at 457.8, 459.2
		qtz-cpy <1mm at 80 tca at 453.5
	461.3 to 468.4	qtz-cpy-py at 20 to 30 tca at 461.3, 466.6, 466.7
		qtz-cpy-py <1mm at 80 tca at 462.2, 462.6, 466.2
		rare qtz-py at 80 to 90 tca
	468.4 to 516	qtz-cpy-py <1cm at 80 to 90 tca at 473.35, 473.45, 480, 484.2,
		493.3, 496.95, 498, 500.25, 500.3
		abundant qtz-cpy-py <1mm stockwork like, low density
		crosscutting in several directions at 30 and 80 tca
		some qtz-py and chl-py at 30 and 80 tca
		qtz veins w/ pinking, diss py in pink zone 10 cm at 30 tca at
		505.9, 509.1
		Mo at 20 tca at 504.4
	516 to 535.1	decrease of mineralization in ser and prop alt zone w/ increased
		cc veining
		qtz-cpy-py-Mo <1mm at 80 tca crosscutting at 516.8
		cc-Mo parallel tca from 518.3 to 524
		Mo at 20 tca at 523.5
		qtz-cpy-py at 80 tca at 529.6, 530.05, 535
		diss cpy in 20 cm alt zone at 534.1
	535.1 to 541.4	slightly increased qtz-cpy-py <1mm at 70 to 90 tca at 536.3, 540.1,
		540.3, 541.3,
		qtz-cpy-cc <3mm wavy subparallel from 537.05 to 537.35
		qtz-py <1.5 cm at 90 tca at 541
	541.4 to 551.2	some qtz-py <1mm at 30 and 80 tca
		diss py in 10 cm pinking at 30 tca at 550.8
	551.2 to 582	stockwork veining w/ qtz-cpy-py <1mm at 30 and 80 tca
		at various directions, stockwork shows less fractures due to
		silification
		qtz-py-Mo < 1cm at 80 tca at 569.3
		Hole ends in mineralization (stockwork)
	EOH	

PC10-03 RQD Log

Depth [m]	unfractured	[%]	Length	Recover
3	0.12	10.9	1.1	n.a.
6	1	33.3	3	100.0
9	1.16	38.7	3	100.0
12	1.49	49.7	3	100.0
15	1.91	63.7	3	100.0
18	1.9	63.3	3	100.0
21	1.45	49.8	2.91	97.0
24	2.17	73.3	2.96	98.7
27	2.18	72.7	3	100.0
30	1.27	42.3	3	100.0
33	2.36	77.6	3.04	101.3
36	2.55	83.9	3.04	101.3
39	1.77	59.0	3	100.0
42	2.38	79.3	3	100.0
45	2.31	78.3	2.95	98.3
48	2.69	88.8	3.03	101.0
51	2.21	74.2	2.98	99.3
54	2.17	72.3	3	100.0
57	2.43	83.8	2.9	96.7
60	2.3	76.7	3	100.0
63	2.43	81.3	2.99	99.7
66	2.35	78.3	3	100.0
69	2.56	83.9	3.05	101.7
72	0.65	21.7	3	100.0
75	1.2	40.4	2.97	99.0
78	1.88	62.7	3	100.0
81	2.95	92.5	3.19	106.3
84	2.37	80.3	2.95	98.3
87	1.8	60.0	3	100.0
90	2.24	74.2	3.02	100.7
93	2.46	83.4	2.95	98.3
96	2.07	69.0	3	100.0
99	1.97	67.9	2.9	96.7
102	2.08	69.3	3	100.0
105	2.81	92.7	3.03	101.0
108	1.75	59.3	2.95	98.3
111	2.41	80.3	3	100.0
114	2.23	74.3	3	100.0
117	2.18	73.9	2.95	98.3
120	0.95	31.7	3	100.0
123	2.62	85.9	3.05	101.7
126	2.79	91.8	3.04	101.3
129	1.95	65.9	2.96	98.7
132	2.5	84.5	2.96	98.7

PC10-03 RQD Log

Depth [m]	unfractured	[%]	Length	Recover
135	2.26	74.6	3.03	101.0
138	2.25	74.0	3.04	101.3
141	2.1	70.0	3	100.0
144	2.7	89.7	3.01	100.3
147	1.37	45.5	3.01	100.3
150	1.31	44.9	2.92	97.3
153	1.9	61.5	3.09	103.0
156	2.36	76.9	3.07	102.3
159	2.24	75.4	2.97	99.0
162	1.82	60.7	3	100.0
165	2.39	78.9	3.03	101.0
168	2.22	73.3	3.03	101.0
171	2.95	94.6	3.12	104.0
174	2.53	84.9	2.98	99.3
177	2.24	75.2	2.98	99.3
180	1.96	65.1	3.01	100.3
183	1.07	35.2	3.04	101.3
186	2.25	75.5	2.98	99.3
189	1.73	58.1	2.98	99.3
192	1.54	53.1	2.9	96.7
195	2.38	82.4	2.89	96.3
198	2.69	90.9	2.96	98.7
201	2.87	95.0	3.02	100.7
204	2.59	85.8	3.02	100.7
207	2.82	93.1	3.03	101.0
210	1.98	64.9	3.05	101.7
213	2.44	81.9	2.98	99.3
216	2.48	82.7	3	100.0
219	2.43	80.2	3.03	101.0
222	2.6	88.1	2.95	98.3
225	2.53	84.3	3	100.0
228	2.67	89.0	3	100.0
231	2.69	91.2	2.95	98.3
234	3	100.0	3	100.0
237	2.99	98.0	3.05	101.7
240	2.29	75.6	3.03	101.0
243	2.35	78.3	3	100.0
246	1.62	56.6	2.86	95.3
249	2.18	73.6	2.96	98.7
252	1.36	44.9	3.03	101.0
255	1.04	32.5	3.2	106.7
258	0.91	30.3	3	100.0
261	0.42	14.0	3	100.0
264	2.81	90.9	3.09	103.0

PC10-03 RQD Log

Depth [m]	unfractured	[%]	Length	Recover
267	2.61	86.7	3.01	100.3
270	2.81	93.7	3	100.0
273	1.46	47.9	3.05	101.7
276	0.24	8.0	3	100.0
279	0.59	19.7	3	100.0
282	1.49	49.7	3	100.0
285	0.46	15.3	3	100.0
288	0.56	18.9	2.97	99.0
291	0.88	29.0	3.03	101.0
294	2.29	77.4	2.96	98.7
297	2.58	84.6	3.05	101.7
300	1.27	42.3	3	100.0
303	2.82	94.0	3	100.0
306	2.05	68.3	3	100.0
309	1.09	36.3	3	100.0
312	1.12	38.2	2.93	97.7
315	1.38	47.9	2.88	96.0
318	2.1	69.5	3.02	100.7
321	2.54	82.2	3.09	103.0
324	1.11	38.0	2.92	97.3
327	1.32	44.0	3	100.0
330	2.16	67.5	3.2	106.7
333	1.39	50.7	2.74	91.3
336	1.53	49.8	3.07	102.3
339	0.86	28.7	3	100.0
342	0.84	27.2	3.09	103.0
345	0.23	7.8	2.95	98.3
348	0.93	32.3	2.88	96.0
351	1.01	31.2	3.24	108.0
354	0.66	22.4	2.94	98.0
357	1.52	48.1	3.16	105.3
360	2.11	70.3	3	100.0
363	1.77	59.0	3	100.0
366	1.29	43.6	2.96	98.7
369	1.84	59.2	3.11	103.7
372	1.87	64.5	2.9	96.7
375	2.52	85.4	2.95	98.3
378	2.82	91.9	3.07	102.3
381	1.67	55.3	3.02	100.7
384	2.38	80.1	2.97	99.0
387	2.08	68.0	3.06	102.0
390	2.16	73.0	2.96	98.7
393	2.09	69.7	3	100.0
396	2.64	86.3	3.06	102.0

PC10-03 RQD Log

Depth [m]	unfractured	[%]	Length	Recover
399	1.54	51.7	2.98	99.3
402	2.12	68.4	3.1	103.3
405	2.67	91.1	2.93	97.7
408	2.82	95.3	2.96	98.7
411	2.05	69.5	2.95	98.3
414	1.09	36.0	3.03	101.0
417	1.83	60.4	3.03	101.0
420	1.32	44.0	3	100.0
423	1.31	43.7	3	100.0
426	0.43	14.3	3	100.0
429	0.6	19.6	3.06	102.0
432	0.93	31.0	3	100.0
435	0.48	14.9	3.22	107.3
438	0.4	13.3	3	100.0
441	1.05	35.0	3	100.0
444	0.2	6.7	3	100.0
447	1.24	41.3	3	100.0
450	2.08	68.2	3.05	101.7
453	2.06	68.7	3	100.0
456	1.27	44.9	2.83	94.3
459	0.6	20.9	2.87	95.7
462	0.83	25.9	3.2	106.7
465	1.42	47.3	3	100.0
468	1.92	65.5	2.93	97.7
471	2.33	76.9	3.03	101.0
474	2.89	95.4	3.03	101.0
477	2.52	82.4	3.06	102.0
480	2.82	95.3	2.96	98.7
483	2.82	91.6	3.08	102.7
486	2.77	93.0	2.98	99.3
489	2.94	93.9	3.13	104.3
492	2.21	73.9	2.99	99.7
495	2.66	90.8	2.93	97.7
498	2.24	74.7	3	100.0
501	2.71	89.7	3.02	100.7
504	2.21	76.7	2.88	96.0
507	2.31	76.2	3.03	101.0
510	2.71	89.1	3.04	101.3
513	2.23	76.6	2.91	97.0
516	2.72	86.9	3.13	104.3
519	2.32	77.1	3.01	100.3
522	1.1	36.1	3.05	101.7
525	0.98	32.2	3.04	101.3
528	1.72	56.6	3.04	101.3

PC10-03 RQD Log

Depth [m]	unfractured	[%]	Length	Recover
531	2.44	77.5	3.15	105.0
534	1.99	70.1	2.84	94.7
537	2.04	68.0	3	100.0
540	2.68	85.6	3.13	104.3
543	1.61	54.2	2.97	99.0
546	1.45	48.7	2.98	99.3
549	1.56	50.0	3.12	104.0
552	2.04	67.8	3.01	100.3
555	1.84	65.7	2.8	93.3
558	1.81	61.8	2.93	97.7
561	2.75	91.4	3.01	100.3
564	2.88	92.0	3.13	104.3
567	2.18	75.4	2.89	96.3
570	2.08	66.5	3.13	104.3
573	2.25	75.0	3	100.0
576	2.66	86.9	3.06	102.0
579	2.78	93.9	2.96	98.7
582	1.66	53.5	3.1	103.3
EOH				

PC10-03 Surveys

Depth [m]	Az	Dip	Mag Field
0	250	60	
30	253.4	57	54731
60	229.4	56.5	55325
90	251.8	55.4	55054
120	253.3	55.2	54971
150	228.7	56.2	54714
180	255.4	58.5	56112
210	242.4	62	55297
240	236.4	63.2	55060
270	251.2	55	54814
300	255.2	54.9	55143
330	258.2	57.2	55155
360	230.7	56.8	54177
390	258.9	57.3	54945
420	240	62.6	55031
450	224.1	60.9	54570
480	263.3	55.8	54903
510	263.2	54	55421
540	236	57.1	54951
570	263.5	53.5	54455
582	EOH		

Appendix E – Assay Certificates



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Received: August 17, 2010
Report Date: September 10, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000425.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Duncastle Gold Corp.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Betheny Jacobson
Mathius Westphal
Tim Johnson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	17	Crush, split and pulverize 250 g rock to 200 mesh			SMI
G601	17	Fire Assay fusion Au by ICP-ES	30	Completed	VAN
1EX	17	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
G6	1	Lead collection fire assay fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: September 10, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000425.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	
MWS10-02A	Rock	0.53	0.698	530.5	3682	446.5	156	189.8	7.4	17.2	118	18.98	5403	4.0	0.6	5.6	71	4.1	>4000	284.0	42
MWS10-02B	Rock	0.95	1.686	4.5	8902	214.2	279	97.2	14.6	41.6	37	9.67	2500	0.6	1.5	0.8	12	4.4	1153	262.8	15
MWS10-03A	Rock	0.58	0.033	>4000	6552	12.5	272	4.0	20.1	17.6	234	3.77	439	5.9	<0.1	33.2	210	6.8	460.6	2.7	72
MWS10-03B	Rock	1.71	<0.005	1397	3044	17.7	97	0.5	12.5	9.9	211	2.99	27	5.2	<0.1	14.2	303	3.2	19.4	1.4	71
MWS10-07	Rock	0.61	>10	202.3	>10000	287.2	5669	>200	11.3	32.4	65	29.28	>10000	2.7	8.9	0.3	17	145.8	>4000	436.4	<1
MWS10-10	Rock	0.50	0.532	11.0	>10000	38.6	1973	>200	13.9	36.5	54	8.41	9810	0.1	0.7	0.1	10	44.8	>4000	49.9	4
MWS10-11	Rock	1.06	0.013	6.1	462.2	5.3	190	2.5	70.1	41.6	1436	32.70	33	1.1	<0.1	4.4	151	0.2	38.5	1.0	1966
MWPC10-01A	Rock	0.67	0.008	17.9	450.9	3.6	20	0.9	12.2	14.4	255	4.02	12	1.8	<0.1	6.2	413	0.2	10.4	0.3	64
MWPC10-01B	Rock	1.43	<0.005	2.4	110.9	5.0	46	0.4	74.8	18.1	787	4.29	24	2.4	<0.1	6.5	139	0.1	6.4	0.4	247
MWPC10-01C	Rock	0.75	0.007	1.7	127.0	2.3	70	0.2	18.6	14.5	1287	5.88	7	0.7	<0.1	3.2	674	0.2	3.6	0.4	206
MWPC10-01D	Rock	0.84	<0.005	1.8	53.1	5.9	82	0.2	41.7	29.4	1102	5.84	21	1.2	<0.1	4.0	523	0.1	4.7	0.1	183
MWPC10-01E	Rock	2.01	<0.005	3.0	146.9	6.0	41	0.2	12.6	17.8	465	4.54	4	3.6	<0.1	8.1	472	<0.1	2.3	17.7	91
MWPC10-02A	Rock	1.04	0.207	7.3	268.5	457.2	1075	11.2	14.0	25.8	916	6.69	3107	1.5	0.3	5.1	16	11.7	8.9	20.3	122
MWPC10-02B	Rock	0.74	<0.005	0.8	54.8	36.1	322	0.6	38.6	20.3	983	6.59	41	2.0	<0.1	7.5	249	2.8	2.6	1.1	168
MWPC10-02C	Rock	5.27	<0.005	0.8	32.7	3.5	48	0.1	50.9	43.6	883	4.28	84	1.5	<0.1	4.3	524	0.1	3.3	0.5	141
MWPC10-03A	Rock	0.64	<0.005	5.1	9.2	13.1	20	0.2	3.4	4.6	162	2.61	40	3.5	<0.1	7.8	175	<0.1	4.1	0.9	30
MWPC10-03B	Rock	1.11	0.018	3.6	12.8	21.5	74	0.2	17.8	14.3	370	4.78	95	2.8	<0.1	6.5	407	0.4	9.5	2.6	103



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Project: Sultana
 Report Date: September 10, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI10000425.1

Method	Analyte	Unit	MDL	1EX Ca	1EX P	1EX La	1EX Cr	1EX Mg	1EX Ba	1EX Ti	1EX Al	1EX Na	1EX K	1EX W	1EX Zr	1EX Ce	1EX Sn	1EX Y	1EX Nb	1EX Ta	1EX Be	1EX Sc	1EX Li
MWS10-02A	Rock	%	0.01	0.10	0.061	11.4	16	0.18	313	0.100	4.67	0.358	2.21	5.8	7.5	23	2.0	4.4	3.7	0.2	<1	4	10.3
MWS10-02B	Rock	%	0.001	<0.01	0.004	8.8	6	0.06	22	0.039	1.64	0.009	0.90	5.0	1.7	17	2.5	2.2	1.4	<0.1	<1	2	10.6
MWS10-03A	Rock	ppm	0.1	1.43	0.110	459.5	19	0.68	144	0.413	7.85	2.043	3.66	9.9	8.4	514	2.2	15.0	19.9	1.5	1	8	5.1
MWS10-03B	Rock	ppm	1	1.41	0.100	100.2	22	0.95	1319	0.347	8.03	2.418	3.06	5.0	7.6	126	1.6	16.3	18.1	1.3	1	9	13.4
MWS10-07	Rock	%	0.001	<0.01	0.011	<0.1	3	0.03	22	0.013	0.62	0.017	0.47	3.3	1.0	4	8.9	0.8	0.7	<0.1	<1	3	1.5
MWS10-10	Rock	%	0.01	<0.01	0.002	<0.1	7	0.03	112	0.014	0.62	0.009	0.38	2.6	1.0	3	1.2	0.5	0.5	<0.1	<1	<1	18.2
MWS10-11	Rock	ppm	1	0.93	0.021	3.8	28	0.73	947	0.367	5.31	1.454	2.63	1.6	4.8	9	3.0	6.0	2.6	0.1	<1	4	5.9
MWPC10-01A	Rock	ppm	1	2.93	0.196	25.1	5	0.96	992	0.431	8.79	3.509	1.75	4.8	52.5	56	1.1	16.0	17.7	1.1	2	7	22.9
MWPC10-01B	Rock	ppm	1	0.96	0.062	21.0	121	1.76	1053	0.411	8.82	1.686	2.19	0.5	56.3	46	0.6	8.2	4.0	0.3	2	21	81.3
MWPC10-01C	Rock	ppm	1	4.74	0.202	16.9	33	2.39	780	0.839	9.96	2.429	1.40	0.8	20.9	41	0.5	22.7	20.4	1.1	<1	17	28.7
MWPC10-01D	Rock	ppm	1	5.05	0.155	19.7	54	2.16	554	0.748	9.26	2.446	1.57	0.6	37.4	46	0.9	16.1	15.4	0.9	<1	16	29.1
MWPC10-01E	Rock	ppm	1	1.83	0.104	22.9	21	1.28	1647	0.418	8.66	3.149	2.47	6.3	125.2	47	0.6	14.2	13.6	1.0	1	10	38.3
MWPC10-02A	Rock	ppm	1	0.41	0.102	14.7	44	1.28	205	0.365	6.15	0.097	2.40	37.7	25.0	34	7.1	7.7	8.8	0.6	1	13	24.7
MWPC10-02B	Rock	ppm	1	2.01	0.153	24.7	64	2.26	625	0.538	8.79	1.734	2.47	9.8	23.5	54	1.6	18.4	14.3	0.9	1	18	34.0
MWPC10-02C	Rock	ppm	1	3.94	0.113	15.7	98	1.36	2367	0.566	8.56	2.786	2.22	1.2	59.0	35	0.9	13.2	11.9	0.7	<1	15	9.1
MWPC10-03A	Rock	ppm	1	0.73	0.060	25.4	6	0.37	325	0.174	7.66	4.136	1.54	1.7	130.1	52	1.7	15.9	9.9	0.6	2	6	7.2
MWPC10-03B	Rock	ppm	1	2.66	0.106	22.1	40	0.97	57	0.474	8.26	2.653	2.24	2.6	66.9	47	1.7	15.3	16.8	1.1	2	12	16.4



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Project: Sultana

Report Date: September 10, 2010

Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

SMI10000425.1

Method	1EX	1EX	1EX	G6Gr
Analyte	S	Rb	Hf	Au
Unit	%	ppm	ppm	gm/t
MDL	0.1	0.1	0.1	0.17
MWS10-02A	Rock	3.1	132.5	0.2
MWS10-02B	Rock	>10	62.5	<0.1
MWS10-03A	Rock	2.4	175.2	0.4
MWS10-03B	Rock	0.4	160.8	0.3
MWS10-07	Rock	>10	32.6	<0.1 18.25
MWS10-10	Rock	>10	26.0	<0.1
MWS10-11	Rock	<0.1	74.4	0.3
MWPC10-01A	Rock	0.9	61.6	1.1
MWPC10-01B	Rock	0.8	67.3	1.5
MWPC10-01C	Rock	0.4	33.0	0.5
MWPC10-01D	Rock	<0.1	40.8	0.9
MWPC10-01E	Rock	0.7	119.9	3.2
MWPC10-02A	Rock	1.0	127.8	0.6
MWPC10-02B	Rock	<0.1	101.1	0.7
MWPC10-02C	Rock	<0.1	40.8	1.4
MWPC10-03A	Rock	1.9	65.3	3.2
MWPC10-03B	Rock	3.7	73.8	1.6



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 Report Date: September 10, 2010

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000425.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
MWS10-07	Rock	0.61	>10	202.3	>10000	287.2	5669	>200	11.3	32.4	65	29.28	>10000	2.7	8.9	0.3	17	145.8	>4000	436.4	<1
REP MWS10-07	QC																				
MWS10-10	Rock	0.50	0.532	11.0	>10000	38.6	1973	>200	13.9	36.5	54	8.41	9810	0.1	0.7	0.1	10	44.8	>4000	49.9	4
REP MWS10-10	QC			10.9	>10000	37.5	1956	>200	13.6	38.0	50	8.32	9655	0.1	0.6	0.2	10	43.2	>4000	48.4	4
Core Reject Duplicates																					
MWS10-02A	Rock	0.53	0.698	530.5	3682	446.5	156	189.8	7.4	17.2	118	18.98	5403	4.0	0.6	5.6	71	4.1	>4000	284.0	42
DUP MWS10-02A	QC		1.131	528.4	3619	446.9	163	194.8	7.3	20.6	121	19.40	5495	3.9	0.8	5.1	71	4.4	>4000	266.5	42
Reference Materials																					
STD CDN-ME-3	Standard																				
STD OREAS24P	Standard			2.3	58.7	2.7	122	<0.1	155.4	48.5	1132	7.61	1	0.8	<0.1	2.9	384	0.2	<0.1	<0.1	163
STD OREAS24P	Standard			1.7	51.7	2.1	113	<0.1	155.9	47.3	1167	7.56	<1	0.7	<0.1	2.9	370	<0.1	0.1	<0.1	167
STD OREAS45P	Standard			2.5	787.3	22.2	140	0.4	394.3	127.5	1326	19.05	13	2.4	<0.1	10.7	32	0.2	1.6	0.3	281
STD OREAS45P	Standard			2.0	730.3	20.7	138	0.3	406.4	124.9	1368	18.76	11	2.0	<0.1	9.9	29	0.1	0.7	0.2	275
STD OXH66	Standard		1.350																		
STD OXH66	Standard		1.375																		
STD OXH66	Standard		1.244																		
STD OXK79	Standard		3.600																		
STD OXK79	Standard		3.659																		
STD OXK79	Standard		3.678																		
STD OREAS24P Expected				1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158
STD OREAS45P Expected				2.1	749	22	141	0.32	385	120	1338	19.22	12	2.2	0.055	9.8	32.6	0.2	0.82	0.21	267
STD CDN-ME-3 Expected																					
STD OXH66 Expected			1.285																		
STD OXK79 Expected			3.532																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		

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Project: Sultana
 Report Date: September 10, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000425.1

Method	Analyte	Unit	MDL	1EX Ca	1EX P	1EX La	1EX Cr	1EX Mg	1EX Ba	1EX Ti	1EX Al	1EX Na	1EX K	1EX W	1EX Zr	1EX Ce	1EX Sn	1EX Y	1EX Nb	1EX Ta	1EX Be	1EX Sc	1EX Li
				%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
Pulp Duplicates																							
MWS10-07	Rock			<0.01	0.011	<0.1	3	0.03	22	0.013	0.62	0.017	0.47	3.3	1.0	4	8.9	0.8	0.7	<0.1	<1	3	1.5
REP MWS10-07	QC																						
MWS10-10	Rock			<0.01	0.002	<0.1	7	0.03	112	0.014	0.62	0.009	0.38	2.6	1.0	3	1.2	0.5	0.5	<0.1	<1	<1	18.2
REP MWS10-10	QC			<0.01	0.002	<0.1	5	0.03	53	0.014	0.61	0.009	0.36	1.7	1.0	3	1.3	0.5	0.7	<0.1	<1	<1	16.6
Core Reject Duplicates																							
MWS10-02A	Rock			0.10	0.061	11.4	16	0.18	313	0.100	4.67	0.358	2.21	5.8	7.5	23	2.0	4.4	3.7	0.2	<1	4	10.3
DUP MWS10-02A	QC			0.09	0.060	11.4	17	0.18	173	0.100	4.62	0.354	2.17	4.3	7.5	23	2.2	4.1	3.4	0.2	<1	4	10.2
Reference Materials																							
STD CDN-ME-3	Standard																						
STD OREAS24P	Standard			6.14	0.137	21.3	202	4.19	292	1.088	7.96	2.285	0.71	0.4	138.1	39	1.9	24.8	20.4	1.1	1	20	8.6
STD OREAS24P	Standard			5.94	0.130	18.6	211	4.34	272	1.088	8.16	2.420	0.67	0.5	141.0	41	1.2	21.9	20.0	1.2	<1	22	7.7
STD OREAS45P	Standard			0.27	0.046	29.4	1037	0.21	310	1.054	6.69	0.078	0.35	1.0	154.6	51	2.4	15.0	20.6	1.3	<1	68	17.2
STD OREAS45P	Standard			0.29	0.042	25.0	1103	0.20	278	1.038	7.14	0.066	0.35	1.0	155.9	53	2.2	12.9	19.6	1.3	1	71	12.6
STD OXH66	Standard																						
STD OXH66	Standard																						
STD OXH66	Standard																						
STD OXK79	Standard																						
STD OXK79	Standard																						
STD OXK79	Standard																						
STD OREAS24P Expected				5.83	0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	37.6	1.6	21.3	21	1.04		20	8.7
STD OREAS45P Expected				0.3	0.047	24.8	1089	0.1962	296	1.037	6.82	0.081	0.35	1.1	154	48.9	2.5	13	21.6	1.2		67	14.7
STD CDN-ME-3 Expected																							
STD OXH66 Expected																							
STD OXK79 Expected																							
BLK	Blank			<0.01	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						

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Project: Sultana
Report Date: September 10, 2010

Page: 1 of 2 **Part** 3

QUALITY CONTROL REPORT

SMI10000425.1

Method	1EX	1EX	1EX	G6Gr	
Analyte	S	Rb	Hf	Au	
Unit	%	ppm	ppm	gm/t	
MDL	0.1	0.1	0.1	0.17	
Pulp Duplicates					
MWS10-07	Rock	>10	32.6	<0.1	18.25
REP MWS10-07	QC				18.96
MWS10-10	Rock	>10	26.0	<0.1	
REP MWS10-10	QC	>10	26.4	<0.1	
Core Reject Duplicates					
MWS10-02A	Rock	3.1	132.5	0.2	
DUP MWS10-02A	QC	3.4	131.9	0.2	
Reference Materials					
STD CDN-ME-3	Standard				9.67
STD OREAS24P	Standard	<0.1	22.6	3.3	
STD OREAS24P	Standard	<0.1	18.3	3.6	
STD OREAS45P	Standard	<0.1	23.8	3.9	
STD OREAS45P	Standard	<0.1	18.8	3.8	
STD OXH66	Standard				
STD OXH66	Standard				
STD OXH66	Standard				
STD OXK79	Standard				
STD OXK79	Standard				
STD OXK79	Standard				
STD OREAS24P Expected		22.4	3.6		
STD OREAS45P Expected		0.03	24.6	4.12	
STD CDN-ME-3 Expected					9.97
STD OXH66 Expected					
STD OXK79 Expected					
BLK	Blank	<0.1	<0.1	<0.1	
BLK	Blank				
BLK	Blank				
BLK	Blank				



Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Duncastle Gold Corp.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project: Sultana

Report Date: September 10, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000425.1

		WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
BLK	Blank	<0.005																			
BLK	Blank																				
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
G1	Prep Blank	<0.005	0.3	5.8	20.6	54	<0.1	3.4	5.4	776	2.34	<1	4.6	<0.1	10.2	752	<0.1	<0.1	0.2	50	
G1	Prep Blank	<0.005	0.2	6.8	20.5	57	<0.1	3.6	5.3	770	2.37	<1	3.9	<0.1	10.2	724	<0.1	<0.1	0.2	50	



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Project: Sultana

Report Date: September 10, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000425.1

		1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX		
		Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	
		%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	2.60	0.082	36.1	9	0.67	1011	0.288	8.30	2.743	3.10	0.2	12.0	62	1.7	18.5	28.0	1.5	4	5	40.4	
G1	Prep Blank	2.58	0.086	38.3	11	0.68	1013	0.284	8.31	2.736	3.08	0.2	11.8	66	1.8	17.8	26.4	1.5	3	5	45.6	



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Project: Sultana

Report Date: September 10, 2010

Page: 2 of 2 **Part** 3

QUALITY CONTROL REPORT

SMI10000425.1

		1EX	1EX	1EX	G6Gr
		S	Rb	Hf	Au
		%	ppm	ppm	gm/t
		0.1	0.1	0.1	0.17
BLK	Blank				
BLK	Blank				<0.17
BLK	Blank				
BLK	Blank				
Prep Wash					
G1	Prep Blank	<0.1	137.6	0.5	
G1	Prep Blank	<0.1	129.9	0.5	



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Client: **Duncastle Gold Corp.**
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Vancouver BC V6E 3T5 Canada

Submitted By: Michael Rowley
Receiving Lab: Canada-Smithers
Received: September 16, 2010
Report Date: September 22, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000425R.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
G6	1	Lead collection fire assay fusion - Grav finish	30	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Duncastle Gold Corp.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Betheny Jacobson
Mathius Westphal
Tim Johnson



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Duncastle Gold Corp.**
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5 Canada

Project: Sultana
Report Date: September 22, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000425R.1

	Method	G6Gr	
		Ag	Au
Analyte		gm/t	gm/t
Unit			
MDL		50	0.17
MWS10-10	Rock	366	4.19



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Project: Sultana

Report Date: September 22, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI10000425R.1

Method		G6Gr	G6Gr
Analyte		Ag	Au
Unit		gm/t	gm/t
MDL		50	0.17
Reference Materials			
STD CDN-ME-3	Standard	266	10.14
STD CDN-ME-3 Expected		276	9.97
BLK	Blank	<50	<0.17



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Client: **Duncastle Gold Corp.**
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Vancouver BC V6E 3T5 Canada

Submitted By: Michael Rowley
Receiving Lab: Canada-Smithers
Received: August 17, 2010
Report Date: September 05, 2010
Page: 1 of 9

CERTIFICATE OF ANALYSIS

SMI10000426.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 239

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Duncastle Gold Corp.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Betheny Jacobson
Tim Johnson
Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	239	Dry at 60C sieve 100g to -80 mesh			SMI
Dry at 60C	239	Dry at 60C			SMI
1DX2	234	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: September 05, 2010

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-001	Soil	1.3	181.4	63.7	35	1.0	6.9	6.2	78	1.48	24.1	2.4	9.1	0.3	11	0.1	10.5	1.6	60	0.09	0.065
SS10-002	Soil	4.1	29.0	10.9	29	0.5	5.3	7.2	102	2.13	13.4	0.9	6.5	0.3	7	0.2	7.7	0.9	62	0.06	0.056
SS10-003	Soil	4.0	227.1	21.0	54	0.2	10.4	17.7	187	3.42	49.1	1.8	7.8	1.2	8	0.1	33.9	0.8	57	0.07	0.087
SS10-004	Soil	10.6	380.4	63.7	89	0.3	6.9	9.9	156	3.52	64.3	2.1	15.1	5.2	9	0.2	41.1	1.3	37	0.09	0.082
SS10-005	Soil	6.0	92.7	16.2	36	0.3	8.0	7.7	126	2.61	24.0	1.9	4.9	0.3	8	0.1	9.2	0.8	57	0.04	0.074
SS10-006	Soil	3.0	10.3	4.9	11	0.3	1.5	1.3	45	0.81	1.4	0.3	6.5	<0.1	11	0.1	11.0	0.8	28	0.07	0.050
SS10-007	Soil	34.1	204.4	82.6	20	1.0	1.4	7.4	95	4.97	171.3	0.7	3.5	0.8	1	<0.1	129.5	0.7	31	0.01	0.054
SS10-008	Soil	80.5	422.5	65.6	31	1.4	5.4	52.2	2793	3.78	25.7	6.3	4.4	0.2	13	0.4	12.8	1.6	51	0.08	0.196
SS10-009	Soil	6.0	151.1	22.7	25	1.9	4.7	3.9	116	2.42	13.4	2.0	6.6	0.2	9	0.2	7.2	0.6	47	0.09	0.093
SS10-010	Soil	6.5	224.1	40.2	11	0.6	3.0	2.6	62	0.75	8.9	2.4	8.4	<0.1	11	0.3	5.3	1.2	34	0.03	0.169
SS10-011	Soil	6.9	44.7	11.3	12	0.6	2.0	2.0	52	1.14	8.3	0.7	4.7	0.1	6	<0.1	3.7	1.0	44	0.06	0.050
SS10-012	Soil	12.6	73.8	16.9	14	1.6	2.5	2.9	46	1.61	20.0	1.3	8.8	0.1	7	0.1	5.1	0.9	43	0.04	0.090
SS10-013	Soil	2.2	227.3	79.9	190	3.2	12.3	5.8	145	2.00	21.0	1.5	21.6	1.2	9	0.2	21.8	1.6	40	0.13	0.088
SS10-014	Soil	17.8	98.2	11.2	9	6.9	1.8	1.7	48	1.74	11.5	0.8	38.1	<0.1	6	<0.1	10.6	1.0	42	0.04	0.066
SS10-015	Soil	89.2	1444	133.0	64	4.0	9.7	9.6	101	3.15	24.8	40.2	11.7	2.0	14	0.2	12.8	0.6	41	0.19	0.209
SS10-016	Soil	8.6	63.4	6.6	22	0.6	4.0	4.4	187	2.18	2.8	1.9	1.6	0.2	7	0.1	1.4	0.3	53	0.11	0.132
SS10-017	Soil	5.3	350.3	56.6	27	1.1	6.2	4.4	97	1.26	10.8	13.7	10.1	0.3	9	0.9	3.9	0.9	29	0.05	0.209
SS10-018	Soil	2.9	12.9	6.9	10	0.3	2.4	1.8	52	0.73	3.6	1.2	2.8	0.1	11	<0.1	2.1	0.4	23	0.04	0.111
SS10-019	Soil	3.7	22.9	16.6	20	0.2	3.8	3.0	98	1.78	14.7	0.9	2.1	0.2	6	<0.1	4.3	0.7	60	0.02	0.043
SS10-020	Soil	4.5	196.9	44.2	14	1.1	3.7	1.8	46	1.28	10.5	4.1	5.4	0.5	8	0.1	2.7	0.5	22	0.04	0.162
SS10-021	Soil	1.3	195.9	61.1	8	1.1	2.4	1.1	35	0.55	5.0	6.6	5.6	0.6	8	0.1	2.3	0.5	12	0.03	0.150
SS10-022	Soil	0.9	6.7	2.7	3	0.1	0.9	0.6	16	0.62	0.5	0.2	3.4	<0.1	4	<0.1	0.6	<0.1	22	0.02	0.032
SS10-023	Soil	6.5	81.2	11.5	22	0.4	4.7	4.3	146	1.69	12.7	1.3	4.0	<0.1	11	<0.1	3.1	0.7	58	0.04	0.070
SS10-024	Soil	1.5	7.7	3.2	5	<0.1	1.0	0.7	19	0.52	1.6	0.4	3.9	0.2	5	<0.1	0.9	0.2	21	0.02	0.033
SS10-025	Soil	6.3	181.2	18.3	62	0.2	8.3	9.4	204	4.40	39.6	2.0	10.7	0.9	17	0.2	13.9	1.0	69	0.03	0.064
SS10-026	Soil	4.5	18.5	7.2	15	0.2	2.4	1.9	67	2.20	12.6	0.5	1.8	<0.1	6	<0.1	2.2	0.4	54	0.02	0.075
SS10-027	Soil	9.0	44.7	9.8	26	0.2	4.2	4.2	269	2.01	39.1	1.0	2.8	0.2	9	0.2	9.4	0.7	48	0.02	0.040
SS10-028	Soil	4.6	11.4	3.6	12	0.2	3.0	2.8	75	1.32	3.5	0.4	0.8	<0.1	5	<0.1	1.5	0.3	47	0.04	0.024
SS10-029	Soil	6.9	17.2	7.6	15	0.4	2.2	1.6	63	1.10	4.7	0.7	1.5	0.4	7	0.1	1.1	0.3	35	0.04	0.044
SS10-030	Soil	3.9	19.6	3.2	10	0.2	3.5	2.4	42	1.35	<0.5	0.5	3.9	0.2	7	0.1	1.5	0.1	46	0.06	0.044

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Project: Sultana
 Report Date: September 05, 2010

Page: 2 of 9 Part 2

CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SS10-001	Soil	9	24	0.30	69	0.009	2	1.97	0.013	0.05	1.5	0.09	0.9	0.2	<0.05	10	0.9	0.2
SS10-002	Soil	6	12	0.19	31	0.076	1	1.39	0.011	0.07	0.7	0.05	1.3	0.2	<0.05	12	0.6	<0.2
SS10-003	Soil	10	23	0.40	58	0.008	4	2.58	0.008	0.07	2.3	0.05	1.5	0.3	<0.05	7	1.0	0.2
SS10-004	Soil	9	16	0.38	58	0.006	5	2.37	0.007	0.06	8.1	0.09	2.3	0.2	<0.05	5	1.0	<0.2
SS10-005	Soil	8	16	0.33	44	0.020	3	1.88	0.008	0.05	2.3	0.06	0.9	0.2	<0.05	10	0.5	<0.2
SS10-006	Soil	4	7	0.07	29	0.023	2	0.38	0.009	0.06	0.2	0.04	0.5	0.2	<0.05	3	<0.5	<0.2
SS10-007	Soil	6	5	0.03	74	<0.001	4	1.35	0.004	0.05	0.7	0.03	0.7	0.4	<0.05	2	0.9	0.2
SS10-008	Soil	10	14	0.20	76	0.013	2	2.62	0.009	0.05	3.9	0.11	0.7	0.2	0.09	7	2.5	<0.2
SS10-009	Soil	10	17	0.22	39	0.023	3	2.96	0.009	0.04	1.7	0.14	0.9	<0.1	<0.05	10	1.2	0.2
SS10-010	Soil	7	20	0.09	37	0.010	1	2.20	0.014	0.05	0.6	0.16	0.5	0.2	<0.05	10	1.7	<0.2
SS10-011	Soil	6	6	0.14	39	0.024	1	1.51	0.008	0.04	0.5	0.05	0.6	0.1	0.05	8	<0.5	<0.2
SS10-012	Soil	6	9	0.08	28	0.008	1	2.19	0.006	0.02	3.6	0.13	0.4	<0.1	0.08	6	0.9	<0.2
SS10-013	Soil	14	20	0.44	52	0.005	3	2.49	0.011	0.04	1.2	0.16	2.2	0.3	<0.05	9	0.6	<0.2
SS10-014	Soil	5	9	0.07	25	0.013	1	1.00	0.006	0.03	0.8	0.13	0.4	<0.1	0.05	5	0.7	<0.2
SS10-015	Soil	44	23	0.45	249	0.026	3	3.93	0.009	0.05	1.5	0.55	4.4	0.2	0.21	5	4.4	<0.2
SS10-016	Soil	7	11	0.28	26	0.016	1	1.39	0.010	0.04	0.3	0.09	0.6	<0.1	0.08	8	<0.5	<0.2
SS10-017	Soil	14	18	0.22	59	0.015	5	2.72	0.013	0.06	1.6	0.42	0.8	0.3	0.20	7	3.7	<0.2
SS10-018	Soil	6	10	0.07	38	0.013	2	0.97	0.009	0.04	0.8	0.08	0.4	0.2	0.10	5	<0.5	<0.2
SS10-019	Soil	8	12	0.15	30	0.026	<1	1.14	0.007	0.03	1.1	0.04	0.8	<0.1	<0.05	10	<0.5	0.2
SS10-020	Soil	6	15	0.11	36	0.009	1	2.52	0.008	0.02	13.0	0.25	0.5	<0.1	0.12	5	1.5	<0.2
SS10-021	Soil	8	16	0.05	38	0.017	<1	3.03	0.005	0.02	0.5	0.28	0.4	<0.1	0.11	6	1.7	<0.2
SS10-022	Soil	5	8	0.01	19	0.004	1	0.36	0.005	0.03	<0.1	0.01	0.3	0.1	<0.05	3	<0.5	<0.2
SS10-023	Soil	6	14	0.13	47	0.024	1	1.51	0.007	0.03	1.2	0.06	0.6	<0.1	0.05	8	0.7	<0.2
SS10-024	Soil	6	6	0.03	19	0.006	<1	0.87	0.004	0.02	0.1	0.46	0.4	<0.1	<0.05	10	<0.5	<0.2
SS10-025	Soil	9	20	0.33	60	0.013	3	2.74	0.005	0.04	5.5	0.11	1.7	0.1	<0.05	9	0.8	0.2
SS10-026	Soil	4	9	0.06	28	0.006	2	0.76	0.007	0.04	0.4	0.08	0.4	<0.1	<0.05	9	<0.5	<0.2
SS10-027	Soil	9	8	0.06	73	0.008	3	1.41	0.004	0.05	2.0	0.04	0.7	0.2	<0.05	6	<0.5	<0.2
SS10-028	Soil	5	15	0.08	23	0.018	1	0.67	0.006	0.03	1.6	0.02	0.6	0.1	<0.05	10	<0.5	<0.2
SS10-029	Soil	4	8	0.12	33	0.089	1	0.72	0.009	0.06	0.5	0.04	0.7	<0.1	0.07	7	<0.5	<0.2
SS10-030	Soil	2	19	0.13	31	0.052	2	0.33	0.017	0.06	0.4	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
SS10-031	Soil	130.0	522.1	62.8	73	0.4	11.0	20.9	832	4.10	24.9	12.6	1.9	0.3	26	0.5	5.9	1.4	59	0.24	0.208
SS10-032	Soil	1.5	3.5	1.7	5	<0.1	0.9	0.5	21	0.42	1.0	0.1	2.3	0.1	5	<0.1	0.5	0.1	17	0.02	0.018
SS10-033	Soil	23.1	120.2	21.9	20	0.5	2.7	4.2	168	0.78	6.1	2.7	15.5	0.1	13	0.2	1.9	0.7	24	0.05	0.089
SS10-034	Soil	3.2	10.0	2.9	5	0.4	1.1	0.7	19	0.47	1.4	0.4	2.8	0.1	9	<0.1	0.6	0.1	18	0.03	0.035
SS10-035	Soil	5.6	15.0	11.1	9	0.3	1.6	0.9	24	0.39	2.3	0.8	14.0	<0.1	9	<0.1	1.5	0.5	18	0.03	0.038
SS10-036	Soil	3.5	18.8	9.1	12	0.4	1.8	1.1	92	0.54	3.0	0.8	6.8	<0.1	11	0.2	0.8	0.4	19	0.04	0.103
SS10-037	Soil	10.0	268.5	34.0	50	1.9	5.5	3.5	74	1.54	16.2	2.8	15.5	1.2	13	0.2	10.4	1.1	41	0.09	0.083
SS10-038	Soil	3.5	108.1	33.5	17	0.5	2.7	1.1	32	0.55	3.5	6.9	3.0	<0.1	16	0.1	1.3	0.7	20	0.04	0.090
SS10-039	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-040	Soil	6.3	150.1	52.6	42	2.5	5.1	3.2	70	0.94	9.0	2.2	9.0	0.3	18	<0.1	8.5	1.0	37	0.05	0.044
SS10-041	Soil	34.0	784.0	32.0	82	0.3	6.1	6.9	142	1.50	19.4	10.7	39.2	0.3	22	0.1	7.6	1.5	31	0.11	0.100
SS10-042	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-043	Soil	118.8	875.1	44.8	83	1.0	8.1	7.5	177	4.84	29.3	23.7	8.7	0.6	18	0.3	5.8	0.9	52	0.17	0.202
SS10-044	Soil	1.5	183.8	24.9	20	0.9	4.4	2.0	43	0.66	4.8	4.9	3.2	0.1	10	0.2	2.8	0.6	22	0.06	0.094
SS10-045	Soil	23.3	86.8	15.2	43	0.4	4.4	2.8	92	1.27	8.0	2.1	28.3	0.1	18	0.1	2.3	1.0	31	0.08	0.069
SS10-046	Soil	3.7	80.4	10.9	20	0.2	4.6	3.0	60	1.18	5.8	1.8	3.5	0.4	7	0.1	2.4	0.5	30	0.05	0.067
SS10-047	Soil	16.9	57.3	13.9	45	0.3	6.3	5.4	214	1.49	6.6	1.4	10.9	0.3	16	0.2	2.4	1.2	42	0.08	0.065
SS10-048	Soil	7.8	85.8	11.0	16	0.4	3.3	2.5	44	1.82	8.5	1.5	3.3	0.5	7	<0.1	2.6	0.6	45	0.03	0.106
SS10-049	Soil	23.3	284.5	9.1	83	0.1	20.2	10.2	233	3.02	12.8	3.5	28.1	1.9	13	0.2	9.4	1.0	71	0.16	0.075
SS10-050	Soil	14.8	58.4	6.9	15	0.2	3.4	2.2	44	1.11	3.6	1.8	2.5	<0.1	7	0.2	0.8	0.3	23	0.05	0.087
SS10-051	Soil	24.9	288.3	9.9	92	0.2	8.7	10.0	163	2.22	17.9	4.0	30.2	0.4	24	0.3	17.3	2.1	40	0.13	0.099
SS10-052	Soil	5.1	28.4	13.7	27	1.1	10.7	5.3	153	2.35	6.5	1.1	2.5	0.5	10	<0.1	2.3	0.4	69	0.07	0.053
SS10-053	Soil	5.6	58.2	7.4	20	0.7	4.6	2.7	81	1.01	10.3	1.5	29.6	0.1	12	0.1	5.8	1.6	33	0.05	0.098
SS10-054	Soil	12.3	527.4	31.6	26	1.0	5.4	2.4	52	0.89	7.7	15.3	6.0	0.2	15	0.4	2.7	0.5	23	0.14	0.200
SS10-055	Soil	4.1	36.7	8.1	19	0.9	4.0	3.1	87	0.88	6.8	1.1	11.8	<0.1	14	<0.1	1.5	0.8	25	0.05	0.068
SS10-056	Soil	15.2	325.6	66.7	79	2.7	9.7	5.3	135	2.54	34.2	6.2	12.7	1.6	14	0.1	19.4	1.0	75	0.11	0.109
SS10-057	Soil	5.7	37.9	7.3	22	0.3	4.4	4.5	136	1.32	12.1	0.9	7.7	<0.1	15	<0.1	2.8	1.4	44	0.04	0.095
SS10-058	Soil	3.1	146.8	59.1	48	2.4	7.8	3.3	125	1.44	12.6	4.2	3.9	1.6	7	0.1	4.7	0.6	30	0.08	0.077
SS10-059	Soil	4.7	29.7	8.0	23	0.7	4.1	3.0	104	1.11	10.5	0.8	10.5	<0.1	14	0.1	2.5	1.0	35	0.06	0.129
SS10-060	Soil	1.4	332.1	55.8	13	2.9	4.4	1.2	44	0.95	18.8	11.0	10.7	0.2	9	<0.1	3.5	0.7	27	0.04	0.196

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
SS10-031	Soil	11	21	0.35	151	0.013	4	2.44	0.010	0.08	5.0	0.06	0.7	0.3	0.15	9	2.1	0.2
SS10-032	Soil	6	7	0.02	17	0.007	<1	0.48	0.003	0.02	0.3	0.02	0.4	<0.1	<0.05	6	<0.5	<0.2
SS10-033	Soil	8	9	0.12	71	0.015	2	1.63	0.008	0.04	3.3	0.06	0.4	0.2	0.09	6	0.6	<0.2
SS10-034	Soil	7	7	0.03	27	0.007	2	0.80	0.006	0.02	0.2	0.03	0.3	0.1	<0.05	7	<0.5	<0.2
SS10-035	Soil	6	7	0.08	41	0.030	2	0.88	0.007	0.04	2.6	0.03	0.3	0.1	<0.05	6	<0.5	<0.2
SS10-036	Soil	6	6	0.07	47	0.018	2	0.67	0.010	0.08	1.1	0.07	0.5	0.3	0.06	3	<0.5	<0.2
SS10-037	Soil	11	17	0.34	67	0.007	4	2.08	0.007	0.04	4.8	0.13	1.1	0.2	0.05	9	1.3	<0.2
SS10-038	Soil	6	14	0.12	55	0.010	2	1.17	0.008	0.05	1.6	0.13	0.3	0.2	0.09	8	1.0	<0.2
SS10-039	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-040	Soil	11	22	0.24	66	0.013	2	1.73	0.012	0.04	4.0	0.06	0.9	0.3	<0.05	11	<0.5	<0.2
SS10-041	Soil	12	12	0.27	117	0.008	3	2.15	0.007	0.05	3.2	0.05	0.7	0.4	0.07	7	1.2	<0.2
SS10-042	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-043	Soil	20	20	0.34	122	0.018	4	3.30	0.009	0.05	5.3	0.23	1.4	0.2	0.16	8	3.0	0.3
SS10-044	Soil	7	19	0.20	47	0.008	1	1.58	0.012	0.04	1.8	0.09	0.4	0.1	0.13	6	1.0	<0.2
SS10-045	Soil	7	12	0.23	65	0.020	2	1.54	0.007	0.05	3.4	0.06	0.6	0.1	0.08	9	0.6	<0.2
SS10-046	Soil	8	15	0.24	51	0.011	2	2.10	0.008	0.04	1.7	0.05	0.8	0.2	0.06	7	0.9	<0.2
SS10-047	Soil	6	14	0.32	71	0.062	2	1.30	0.009	0.08	3.9	0.04	0.8	0.3	0.06	10	0.5	<0.2
SS10-048	Soil	6	15	0.14	37	0.017	2	2.68	0.007	0.02	6.3	0.11	0.6	<0.1	0.08	9	0.7	<0.2
SS10-049	Soil	9	53	0.83	110	0.133	2	1.99	0.013	0.20	4.9	0.04	3.2	0.2	0.05	12	0.8	0.3
SS10-050	Soil	5	10	0.15	44	0.009	2	0.96	0.009	0.05	38.7	0.08	0.3	0.2	0.12	5	0.8	<0.2
SS10-051	Soil	9	17	0.56	81	0.023	3	1.73	0.007	0.07	11.2	0.02	1.0	0.2	<0.05	10	0.7	0.2
SS10-052	Soil	6	35	0.51	37	0.150	2	1.95	0.012	0.05	1.1	0.08	1.5	<0.1	0.05	13	0.9	<0.2
SS10-053	Soil	6	18	0.17	47	0.017	1	2.59	0.007	0.04	4.7	0.10	0.3	0.1	0.10	9	0.7	0.5
SS10-054	Soil	16	15	0.19	86	0.012	3	1.90	0.012	0.06	1.6	0.19	0.5	0.2	0.23	5	2.8	<0.2
SS10-055	Soil	5	9	0.20	57	0.025	2	0.90	0.006	0.07	2.8	0.07	0.3	0.1	<0.05	7	0.6	<0.2
SS10-056	Soil	17	30	0.49	87	0.018	3	2.18	0.010	0.06	5.0	0.20	2.7	0.3	<0.05	9	0.9	0.2
SS10-057	Soil	5	12	0.18	51	0.025	2	1.17	0.006	0.05	8.0	0.06	0.4	0.2	<0.05	9	<0.5	<0.2
SS10-058	Soil	18	22	0.33	45	0.058	1	2.21	0.028	0.06	1.3	0.23	1.5	0.2	0.05	19	0.9	<0.2
SS10-059	Soil	5	14	0.16	46	0.033	1	1.13	0.006	0.05	3.4	0.08	0.3	0.2	0.07	10	<0.5	<0.2
SS10-060	Soil	12	21	0.14	44	0.019	1	3.03	0.010	0.03	0.9	0.21	0.5	0.1	0.13	8	1.8	<0.2

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-061	Soil	6.4	31.7	10.4	28	0.2	3.6	5.7	2039	1.72	6.4	1.2	5.5	0.5	15	0.2	1.2	0.9	50	0.05	0.172
SS10-062	Soil	4.3	231.1	25.4	58	1.2	9.3	5.8	179	2.22	12.6	2.8	8.5	0.4	13	<0.1	3.8	1.0	50	0.07	0.070
SS10-063	Soil	10.1	27.7	9.4	13	0.2	3.2	3.9	57	1.76	9.3	0.7	3.4	0.5	12	0.1	3.3	0.9	69	0.03	0.040
SS10-064	Soil	8.1	185.1	11.4	51	0.4	6.7	7.4	118	2.37	21.3	2.3	10.5	0.4	16	<0.1	6.5	1.6	55	0.06	0.103
SS10-065	Soil	8.4	10.0	8.7	5	0.2	1.9	0.8	18	0.66	1.4	0.6	22.2	0.3	10	<0.1	0.5	0.6	34	0.03	0.025
SS10-066	Soil	8.7	77.5	12.8	42	0.6	6.5	6.2	122	1.82	21.2	1.3	24.1	0.1	12	0.1	5.3	2.4	47	0.04	0.094
SS10-067	Soil	7.1	59.0	6.6	9	0.3	3.7	2.8	68	0.79	1.6	1.1	9.5	0.5	22	<0.1	0.4	0.6	26	0.07	0.043
SS10-068	Soil	7.9	50.0	7.7	12	0.4	2.7	1.9	170	0.83	5.9	1.1	12.3	<0.1	12	<0.1	1.6	1.1	31	0.03	0.074
SS10-069	Soil	12.2	183.5	13.2	46	0.6	6.8	8.6	375	3.24	21.5	2.6	11.7	1.3	14	0.2	5.7	1.3	64	0.09	0.183
SS10-070	Soil	12.2	137.9	13.6	42	0.3	6.8	6.0	158	2.91	22.8	2.4	11.3	0.4	15	<0.1	6.9	1.4	55	0.04	0.148
SS10-071	Soil	9.2	36.0	6.7	21	0.2	3.5	3.4	94	1.25	5.3	0.7	17.7	0.1	9	0.3	1.8	0.9	36	0.04	0.043
SS10-072	Soil	15.3	237.9	12.9	51	0.2	8.4	7.4	134	2.95	23.2	3.4	86.8	0.3	16	<0.1	5.2	1.3	60	0.07	0.156
SS10-073	Soil	9.4	64.1	7.6	16	0.5	3.8	4.1	94	2.32	6.9	1.1	6.0	0.9	9	0.3	1.6	1.0	67	0.06	0.081
SS10-074	Soil	15.3	137.9	11.3	38	0.2	6.6	6.5	277	3.84	23.4	2.7	10.3	0.4	14	<0.1	5.0	1.2	67	0.05	0.149
SS10-075	Soil	18.4	53.6	4.3	7	0.4	2.3	2.0	30	1.19	2.5	1.1	11.9	0.1	19	0.1	1.2	0.4	34	0.06	0.042
SS10-076	Soil	4.8	22.0	3.7	6	0.4	2.6	2.5	32	1.07	1.3	1.1	1.4	0.2	4	0.1	0.8	0.3	33	0.02	0.058
SS10-077	Soil	9.2	38.3	10.8	19	0.5	5.4	4.3	169	1.13	3.8	1.0	7.4	0.2	9	0.3	1.5	0.8	33	0.04	0.055
SS10-078	Soil	33.8	51.5	9.7	10	0.9	3.4	2.6	52	1.21	5.8	1.2	36.4	0.2	8	<0.1	1.4	1.8	40	0.04	0.055
SS10-079	Soil	4.3	42.9	11.9	15	1.0	4.0	2.8	55	0.91	5.2	1.0	3.0	0.1	10	0.2	2.0	0.8	28	0.04	0.058
SS10-080	Soil	3.6	29.0	8.7	20	0.4	10.5	5.8	121	2.01	3.6	0.8	5.8	1.3	7	<0.1	0.7	0.4	67	0.09	0.059
SS10-081	Soil	28.7	85.3	12.5	10	0.9	2.9	1.1	64	0.80	2.2	1.8	7.1	0.6	10	<0.1	0.7	0.6	36	0.05	0.039
SS10-082	Soil	8.8	298.9	15.7	58	0.3	12.0	8.2	176	3.12	25.3	2.6	7.7	0.8	11	0.1	17.9	1.1	56	0.06	0.059
SS10-083	Soil	10.1	169.1	14.7	43	0.4	5.5	6.7	217	2.23	20.3	2.5	5.9	0.4	9	0.3	6.0	1.0	50	0.05	0.085
SS10-084	Soil	6.2	76.5	11.9	15	0.8	4.7	2.1	63	1.37	7.3	2.4	2.9	0.4	8	0.2	1.1	0.5	33	0.03	0.091
SS10-085	Soil	6.5	47.7	16.0	13	0.1	2.6	1.5	105	0.56	3.9	1.6	4.6	0.2	14	0.2	1.2	1.0	19	0.04	0.050
SS10-086	Soil	5.3	120.1	17.1	51	0.2	9.8	6.1	222	3.32	13.4	1.6	2.5	0.6	7	<0.1	4.0	0.5	67	0.06	0.058
SS10-087	Soil	33.2	425.8	38.0	51	0.5	7.2	7.3	263	2.30	17.8	6.2	6.0	0.3	13	0.3	3.7	0.9	42	0.09	0.118
SS10-088	Soil	6.6	181.1	16.4	46	0.5	7.5	6.5	174	2.66	23.4	2.9	8.3	0.5	9	0.2	8.5	0.9	45	0.04	0.079
SS10-089	Soil	22.7	1348	60.1	136	0.5	10.3	8.5	199	2.49	21.0	18.9	5.6	0.7	14	0.5	9.7	1.2	35	0.12	0.169
SS10-090	Soil	5.8	87.8	16.7	33	0.6	6.6	3.4	153	2.36	12.8	2.1	2.9	0.4	6	0.2	4.2	0.5	42	0.05	0.072

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
SS10-061	Soil	6	16	0.14	63	0.051	1	1.35	0.008	0.07	3.1	0.05	0.7	0.2	<0.05	9	<0.5	<0.2
SS10-062	Soil	9	19	0.45	46	0.027	2	2.11	0.007	0.05	3.4	0.09	1.0	0.2	<0.05	10	1.0	<0.2
SS10-063	Soil	4	14	0.10	28	0.096	1	0.71	0.005	0.03	3.3	0.02	0.7	0.1	<0.05	11	<0.5	<0.2
SS10-064	Soil	9	20	0.43	50	0.028	2	2.63	0.008	0.05	10.1	0.06	1.2	0.1	0.08	8	1.6	<0.2
SS10-065	Soil	5	9	0.03	23	0.092	1	0.53	0.006	0.02	13.8	0.03	0.4	0.1	<0.05	8	<0.5	0.2
SS10-066	Soil	7	16	0.33	40	0.021	2	1.62	0.007	0.05	9.2	0.06	0.4	0.2	<0.05	11	0.8	<0.2
SS10-067	Soil	5	11	0.18	70	0.098	2	0.57	0.010	0.09	15.7	0.03	0.8	0.2	<0.05	6	<0.5	<0.2
SS10-068	Soil	6	11	0.10	50	0.019	2	1.48	0.007	0.04	2.7	0.04	0.3	0.4	<0.05	8	0.6	<0.2
SS10-069	Soil	7	23	0.33	46	0.040	2	2.50	0.007	0.05	11.8	0.09	1.4	0.1	<0.05	8	1.3	<0.2
SS10-070	Soil	9	20	0.34	43	0.039	3	2.69	0.008	0.06	9.2	0.08	1.0	0.1	<0.05	12	1.6	0.6
SS10-071	Soil	5	10	0.16	34	0.048	1	0.59	0.006	0.06	4.4	0.03	0.5	<0.1	<0.05	6	<0.5	<0.2
SS10-072	Soil	10	23	0.38	45	0.026	3	2.29	0.009	0.06	9.6	0.06	1.0	0.2	0.05	12	1.2	<0.2
SS10-073	Soil	5	16	0.22	40	0.093	2	1.05	0.007	0.05	4.6	0.03	1.0	0.1	<0.05	10	<0.5	<0.2
SS10-074	Soil	9	22	0.32	43	0.032	2	2.68	0.007	0.04	5.4	0.09	0.9	0.1	0.07	13	1.7	<0.2
SS10-075	Soil	4	10	0.07	35	0.040	2	0.50	0.007	0.03	11.8	0.05	0.5	<0.1	0.05	5	<0.5	<0.2
SS10-076	Soil	4	12	0.13	37	0.048	2	0.59	0.007	0.05	1.2	0.04	0.5	<0.1	0.05	5	<0.5	<0.2
SS10-077	Soil	5	13	0.26	77	0.084	1	0.76	0.008	0.13	1.5	0.03	0.6	0.2	<0.05	7	<0.5	<0.2
SS10-078	Soil	5	10	0.17	34	0.046	<1	1.01	0.008	0.04	35.1	0.05	0.7	0.1	<0.05	9	0.7	0.2
SS10-079	Soil	5	9	0.17	51	0.053	1	1.00	0.011	0.06	1.3	0.06	0.5	0.2	0.05	8	<0.5	<0.2
SS10-080	Soil	6	28	0.45	68	0.154	1	1.99	0.012	0.22	1.5	0.05	1.4	0.2	0.06	10	0.7	<0.2
SS10-081	Soil	7	10	0.17	42	0.100	2	0.99	0.009	0.06	1.0	0.03	0.8	0.2	<0.05	9	<0.5	<0.2
SS10-082	Soil	10	23	0.47	48	0.025	2	2.94	0.008	0.04	8.0	0.09	1.6	0.1	<0.05	10	1.2	<0.2
SS10-083	Soil	6	14	0.29	43	0.018	2	1.63	0.005	0.04	4.8	0.06	0.5	0.1	0.07	9	1.1	<0.2
SS10-084	Soil	6	17	0.14	38	0.023	2	1.83	0.006	0.03	2.8	0.17	0.4	<0.1	0.09	8	1.4	1.0
SS10-085	Soil	6	6	0.08	45	0.035	3	0.57	0.005	0.07	1.5	0.03	0.6	0.2	<0.05	6	<0.5	<0.2
SS10-086	Soil	10	24	0.47	40	0.059	2	2.02	0.011	0.08	1.6	0.04	1.3	<0.1	<0.05	13	0.6	<0.2
SS10-087	Soil	9	14	0.28	90	0.012	3	1.31	0.008	0.07	2.1	0.06	0.9	0.3	0.06	9	1.2	0.3
SS10-088	Soil	9	20	0.27	38	0.021	2	2.79	0.007	0.03	4.4	0.06	0.8	<0.1	0.05	10	1.4	0.3
SS10-089	Soil	13	18	0.27	144	0.013	3	2.24	0.008	0.09	3.6	0.18	1.3	0.3	0.10	8	1.8	<0.2
SS10-090	Soil	10	16	0.18	35	0.021	<1	2.09	0.008	0.04	1.6	0.07	0.7	0.1	<0.05	14	0.9	0.3

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-091	Soil	25.0	2082	91.6	130	1.1	9.0	6.2	109	2.54	26.1	27.2	5.5	0.7	16	0.6	8.4	1.2	32	0.17	0.226
SS10-092	Soil	7.3	252.0	61.0	69	2.5	12.3	6.9	209	2.83	26.4	3.2	7.4	1.0	9	0.2	13.9	0.7	54	0.06	0.075
SS10-093	Soil	5.5	38.5	9.4	7	1.1	1.7	0.8	17	0.72	3.5	3.3	4.1	0.3	7	0.1	0.9	0.5	21	0.03	0.119
SS10-094	Soil	10.3	347.8	97.1	124	2.6	10.1	9.1	246	3.64	48.8	5.7	13.1	2.2	11	0.3	32.5	1.2	50	0.08	0.090
SS10-095	Soil	4.4	232.5	51.6	57	0.4	10.8	4.5	133	1.66	15.7	4.9	9.9	2.4	13	0.2	5.8	0.9	38	0.18	0.092
SS10-096	Soil	7.2	161.5	24.0	46	0.4	6.1	6.0	146	2.46	26.5	2.5	7.8	0.5	9	0.2	17.2	1.1	43	0.04	0.096
SS10-097	Soil	38.3	378.1	103.7	63	2.8	5.2	4.6	69	2.62	69.9	6.0	14.4	0.7	11	0.2	25.7	2.5	79	0.08	0.127
SS10-098	Soil	8.7	182.8	36.5	64	0.4	9.4	9.6	183	3.34	37.2	1.9	10.0	0.8	10	0.2	12.3	1.2	55	0.06	0.097
SS10-099	Soil	8.1	375.9	42.0	79	2.2	8.0	6.7	96	2.13	23.5	8.5	18.3	0.9	12	0.1	16.5	0.9	39	0.08	0.066
SS10-100	Soil	6.7	215.5	38.5	44	1.2	11.5	4.7	169	2.54	12.8	6.4	3.7	0.6	9	<0.1	3.6	0.7	36	0.09	0.128
SS10-101	Soil	16.4	142.7	21.6	30	0.6	3.4	5.1	54	1.82	27.4	1.8	12.9	0.7	8	<0.1	8.3	0.8	35	0.02	0.089
SS10-102	Soil	16.8	448.9	21.9	42	1.3	8.3	5.8	121	2.63	18.5	14.2	6.5	1.4	9	0.1	7.0	1.0	47	0.05	0.084
SS10-103	Soil	9.3	71.1	26.5	36	0.6	3.6	5.7	78	3.57	26.8	1.4	4.2	0.3	7	0.2	9.0	0.6	58	0.03	0.063
SS10-104	Soil	8.6	92.0	7.2	21	0.4	4.6	4.9	73	2.38	11.9	2.5	8.5	0.4	6	0.1	4.6	0.6	50	0.06	0.085
SS10-105	Soil	8.3	82.2	22.4	26	0.5	3.7	2.9	103	1.75	22.1	1.1	1.5	0.1	8	0.2	6.3	0.8	39	0.03	0.043
SS10-106	Soil	4.5	41.0	15.7	11	0.7	1.8	1.8	23	1.13	8.0	1.8	4.3	0.4	10	0.1	2.5	0.6	26	0.03	0.082
SS10-107	Soil	8.4	246.3	16.2	25	1.5	6.0	4.4	101	1.80	8.5	2.6	5.8	0.3	7	<0.1	3.0	0.5	46	0.06	0.050
SS10-108	Soil	10.3	204.1	28.1	59	0.3	9.1	6.5	178	3.68	30.2	3.1	8.0	0.5	13	<0.1	10.4	1.7	52	0.04	0.064
SS10-109	Soil	63.8	195.3	18.2	50	0.4	6.6	21.4	159	3.78	33.3	2.2	3.4	0.2	8	0.3	9.7	1.1	57	0.05	0.090
SS10-110	Soil	1.9	105.8	23.0	16	0.7	4.0	1.9	48	0.86	7.2	3.7	3.4	0.4	8	0.2	1.7	0.4	24	0.04	0.108
SS10-111	Soil	24.9	204.3	14.3	26	0.8	4.4	5.3	94	1.22	12.5	4.0	9.9	0.1	12	0.1	5.4	0.7	25	0.06	0.169
SS10-112	Soil	3.5	31.4	22.4	19	0.9	3.4	2.1	41	1.04	8.4	1.8	6.4	0.5	8	0.1	1.8	0.5	37	0.04	0.046
SS10-113	Soil	7.2	31.3	5.8	10	1.1	2.4	2.1	38	0.63	1.7	0.9	1.7	<0.1	8	0.2	1.5	0.4	24	0.08	0.075
SS10-114	Soil	3.5	200.9	13.9	11	0.5	2.9	1.3	28	0.73	10.7	3.6	4.2	0.2	8	0.3	1.4	0.3	23	0.05	0.109
SS10-115	Soil	6.2	39.7	18.2	9	1.2	1.5	1.5	15	0.84	7.3	1.1	7.5	1.3	5	0.1	3.9	0.5	19	0.03	0.090
SS10-116	Soil	14.7	199.7	16.4	12	0.6	2.9	2.2	68	1.51	12.8	2.9	10.9	0.1	10	0.3	2.3	1.1	35	0.04	0.067
SS10-117	Soil	1.6	9.9	4.8	7	0.4	1.0	0.8	11	0.33	2.9	0.4	6.2	<0.1	5	0.2	2.7	0.4	12	0.02	0.040
SS10-118	Soil	8.0	167.9	13.9	11	0.5	2.8	2.6	28	2.20	8.5	3.2	8.0	1.6	11	<0.1	2.0	0.6	27	0.04	0.122
SS10-119	Soil	10.1	29.5	31.8	7	0.2	0.9	0.4	13	0.33	12.4	1.5	3.2	<0.1	5	0.2	5.0	0.9	31	0.02	0.024
SS10-120	Soil	17.9	70.3	6.7	10	0.6	3.0	3.7	44	2.35	4.3	1.6	1.7	0.3	7	<0.1	1.0	0.8	59	0.03	0.082

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
SS10-091	Soil	16	15	0.22	171	0.006	2	2.40	0.010	0.08	2.6	0.25	1.4	0.3	0.15	6	2.2	0.7
SS10-092	Soil	12	30	0.45	50	0.029	2	2.76	0.007	0.06	2.3	0.13	1.7	0.1	<0.05	11	0.8	<0.2
SS10-093	Soil	5	10	0.05	35	0.012	<1	2.03	0.018	0.02	1.1	0.13	<0.1	<0.1	0.05	7	0.5	<0.2
SS10-094	Soil	12	20	0.43	46	0.028	2	2.23	0.014	0.06	4.5	0.21	2.3	0.1	<0.05	11	0.9	<0.2
SS10-095	Soil	18	30	0.41	91	0.016	3	1.87	0.011	0.04	3.2	0.11	2.3	0.2	<0.05	8	0.5	0.8
SS10-096	Soil	7	19	0.28	36	0.015	2	2.45	0.005	0.04	3.3	0.07	0.6	0.1	<0.05	10	1.1	0.2
SS10-097	Soil	16	24	0.25	79	0.009	4	2.27	0.005	0.05	4.4	0.15	1.5	0.2	<0.05	7	2.2	0.9
SS10-098	Soil	9	23	0.36	41	0.024	2	2.18	0.012	0.05	6.0	0.10	1.3	<0.1	<0.05	8	1.3	0.2
SS10-099	Soil	14	16	0.35	60	0.014	3	2.11	0.005	0.04	2.8	0.16	1.5	0.2	<0.05	7	1.0	<0.2
SS10-100	Soil	16	21	0.37	40	0.031	2	2.31	0.014	0.05	1.2	0.13	1.3	0.1	<0.05	13	0.8	0.2
SS10-101	Soil	7	11	0.17	40	0.007	3	2.24	0.004	0.04	3.5	0.12	0.8	0.2	<0.05	8	0.9	0.2
SS10-102	Soil	12	21	0.31	54	0.035	<1	2.49	0.011	0.05	4.0	0.16	1.9	0.2	<0.05	12	1.1	<0.2
SS10-103	Soil	6	13	0.15	33	0.022	1	2.34	0.014	0.02	3.6	0.09	0.9	<0.1	<0.05	11	1.2	<0.2
SS10-104	Soil	6	17	0.21	25	0.025	2	2.96	0.005	0.03	4.3	0.09	1.1	<0.1	<0.05	8	1.2	0.3
SS10-105	Soil	10	9	0.10	41	0.020	2	1.34	0.006	0.04	1.3	0.05	0.5	0.1	<0.05	15	<0.5	<0.2
SS10-106	Soil	5	10	0.05	38	0.009	<1	2.39	0.005	0.02	3.7	0.13	0.4	<0.1	<0.05	7	0.7	<0.2
SS10-107	Soil	8	13	0.31	48	0.029	1	2.07	0.007	0.05	2.7	0.11	0.8	0.2	<0.05	12	0.6	<0.2
SS10-108	Soil	8	21	0.29	42	0.023	2	2.71	0.005	0.03	7.0	0.11	1.2	0.1	<0.05	8	1.2	<0.2
SS10-109	Soil	7	12	0.29	45	0.021	6	1.61	0.006	0.07	6.1	0.07	0.8	0.2	<0.05	10	2.7	<0.2
SS10-110	Soil	7	17	0.11	41	0.012	<1	2.13	0.011	0.03	0.9	0.16	0.4	0.1	<0.05	7	1.3	<0.2
SS10-111	Soil	5	9	0.14	44	0.007	2	1.42	0.013	0.06	7.8	0.09	0.1	0.1	0.08	6	1.2	<0.2
SS10-112	Soil	7	15	0.16	35	0.031	<1	1.45	0.007	0.03	1.6	0.08	0.6	<0.1	<0.05	9	0.8	<0.2
SS10-113	Soil	3	4	0.08	27	0.029	1	0.80	0.010	0.04	0.6	0.10	0.4	0.1	<0.05	4	<0.5	<0.2
SS10-114	Soil	9	14	0.11	39	0.017	<1	1.30	0.008	0.04	0.9	0.11	0.6	0.2	0.07	8	0.6	<0.2
SS10-115	Soil	6	8	0.03	26	0.005	<1	2.41	0.005	0.02	1.1	0.10	1.0	0.1	<0.05	6	<0.5	<0.2
SS10-116	Soil	7	11	0.08	45	0.017	<1	1.52	0.005	0.03	2.7	0.09	0.4	0.2	<0.05	9	<0.5	0.2
SS10-117	Soil	5	4	0.03	22	0.006	<1	0.81	0.004	0.02	0.4	0.06	0.2	0.1	<0.05	6	<0.5	<0.2
SS10-118	Soil	7	15	0.11	39	0.018	<1	2.81	0.005	0.01	5.0	0.12	1.0	<0.1	0.08	8	1.7	<0.2
SS10-119	Soil	7	6	0.03	30	0.037	<1	0.84	0.005	0.02	1.0	0.04	<0.1	0.1	0.07	11	<0.5	<0.2
SS10-120	Soil	6	15	0.26	39	0.017	1	1.22	0.009	0.06	3.9	0.06	0.8	0.1	0.11	8	1.4	0.6

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-121	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-122	Soil	1.9	11.9	2.2	8	0.4	2.2	0.9	36	0.90	1.3	0.4	2.3	0.2	6	0.2	0.7	0.1	29	0.06	0.054
SS10-123	Soil	25.0	1017	132.2	337	6.5	12.1	30.2	662	4.21	134.7	3.4	35.8	6.6	13	1.1	113.2	3.5	50	0.17	0.117
SS10-124	Soil	9.5	17.1	1.8	4	<0.1	1.7	2.1	54	1.09	1.9	0.5	5.1	<0.1	3	<0.1	0.6	0.3	32	0.02	0.038
SS10-125	Soil	15.0	137.4	67.3	74	0.4	4.5	7.7	95	3.88	83.0	1.3	6.8	1.0	5	0.3	33.3	1.1	55	0.02	0.089
SS10-126	Soil	33.5	84.6	3.8	8	0.6	3.0	3.5	38	1.55	3.0	1.5	6.6	0.8	2	<0.1	2.1	0.5	56	0.01	0.042
SS10-127	Soil	22.8	156.5	19.0	58	0.7	7.4	8.3	102	2.11	40.9	1.7	7.0	0.9	8	0.2	16.9	1.2	43	0.03	0.076
SS10-128	Soil	26.2	27.5	9.6	15	0.2	2.5	5.9	47	1.62	13.8	0.7	25.6	<0.1	6	<0.1	4.6	0.7	43	0.03	0.060
SS10-129	Soil	35.1	225.4	78.6	75	1.4	4.7	3.6	55	1.14	28.6	1.9	4.7	0.3	11	0.3	40.5	1.3	29	0.08	0.085
SS10-130	Soil	6.3	48.9	8.8	12	0.9	2.1	2.4	37	0.85	11.7	1.3	35.6	0.1	7	<0.1	3.2	0.6	21	0.03	0.121
SS10-131	Soil	58.6	455.6	293.4	91	3.3	10.3	4.2	101	3.12	132.7	19.2	39.1	1.0	11	0.2	58.1	2.2	45	0.18	0.170
SS10-132	Soil	10.9	263.7	30.9	18	1.7	4.7	3.1	51	1.78	8.5	7.1	8.2	0.6	9	0.2	2.5	0.5	29	0.04	0.158
SS10-133	Soil	74.0	257.3	23.5	62	0.3	9.5	4.1	80	1.64	11.5	1.9	5.5	1.7	7	<0.1	10.3	0.3	32	0.06	0.063
SS10-134	Soil	10.5	65.0	12.3	23	1.0	4.3	4.3	117	2.55	14.1	1.4	4.6	0.2	7	0.1	4.7	0.7	55	0.04	0.078
SS10-135	Soil	55.5	300.5	62.4	154	0.3	11.1	7.6	180	3.02	49.8	6.1	3.3	0.8	9	0.4	14.4	0.9	44	0.09	0.135
SS10-136	Soil	5.3	25.8	6.5	10	0.6	2.5	3.1	47	1.27	8.1	0.7	33.3	0.2	10	0.1	2.4	1.1	44	0.05	0.048
SS10-137	Soil	12.0	105.9	29.3	62	2.0	6.5	7.4	129	3.05	34.5	1.5	5.8	0.2	8	0.3	14.1	0.8	44	0.03	0.074
SS10-138	Soil	4.8	27.5	10.9	17	0.3	3.5	2.3	90	1.58	5.6	0.8	4.5	0.3	9	0.2	1.8	0.7	47	0.04	0.053
SS10-139	Soil	18.0	195.5	17.8	30	0.5	4.7	4.6	73	1.18	16.3	1.8	5.4	0.1	8	0.1	6.2	0.8	32	0.05	0.060
SS10-140	Soil	1.9	37.0	4.3	17	1.6	12.0	5.6	111	1.95	3.0	1.1	2.7	1.2	6	<0.1	0.8	0.1	52	0.07	0.069
SS10-141	Soil	35.5	257.8	25.4	72	0.4	8.4	8.4	144	2.29	22.0	1.7	10.1	0.2	8	0.3	8.6	0.9	52	0.06	0.055
SS10-142	Soil	4.1	49.5	14.6	41	0.6	6.0	3.0	129	1.91	8.1	1.6	2.5	0.2	9	0.2	1.9	0.6	44	0.03	0.065
SS10-143	Soil	8.6	56.4	14.3	31	0.5	6.2	6.6	159	1.81	6.3	1.1	1.0	0.4	6	0.2	1.9	0.5	50	0.09	0.053
SS10-144	Soil	4.7	61.9	6.8	10	1.2	2.9	1.2	49	1.37	3.8	2.5	4.0	0.1	10	0.2	0.7	0.3	24	0.04	0.107
SS10-145	Soil	33.3	201.7	26.4	49	0.7	5.0	5.4	140	2.50	48.4	1.6	4.4	0.2	7	0.1	10.9	0.7	47	0.03	0.065
SS10-146	Soil	8.9	57.4	13.5	16	0.4	3.4	3.1	107	1.37	10.1	1.0	7.7	0.2	8	0.1	15.2	0.9	45	0.03	0.053
SS10-147	Soil	14.8	23.2	12.6	18	0.3	3.1	3.9	419	1.23	8.4	0.6	5.5	0.2	11	<0.1	3.9	0.7	49	0.04	0.050
SS10-148	Soil	8.9	67.9	16.6	36	0.2	6.6	4.8	155	3.29	20.5	1.6	1.2	0.2	7	0.2	6.2	1.0	61	0.04	0.073
SS10-149	Soil	18.0	140.7	5.3	20	0.8	5.1	6.8	787	3.04	2.2	2.0	5.3	1.7	16	0.2	0.6	0.9	73	0.09	0.159
SS10-150	Soil	3.7	36.4	12.7	17	0.7	5.8	3.2	91	1.54	4.3	2.2	3.1	0.1	7	0.1	0.8	0.3	40	0.04	0.098

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SS10-121	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
SS10-122	Soil	3	12	0.03	27	0.014	2	0.28	0.009	0.05	0.2	0.06	0.4	<0.1	0.08	2	<0.5	<0.2
SS10-123	Soil	16	17	0.50	157	0.022	5	1.74	0.008	0.12	6.6	0.31	4.5	0.2	<0.05	5	1.1	0.5
SS10-124	Soil	7	8	0.04	17	0.008	2	0.42	0.004	0.05	1.6	0.03	0.3	<0.1	<0.05	5	<0.5	0.4
SS10-125	Soil	8	12	0.13	39	0.006	2	2.27	0.005	0.05	2.6	0.07	1.5	0.2	0.08	7	0.8	0.5
SS10-126	Soil	10	14	0.27	49	0.070	<1	0.70	0.006	0.11	4.0	0.03	1.3	0.1	<0.05	7	0.7	<0.2
SS10-127	Soil	9	15	0.27	47	0.006	2	2.50	0.009	0.05	1.8	0.08	1.2	0.1	0.06	8	0.9	<0.2
SS10-128	Soil	6	12	0.08	40	0.011	2	0.85	0.005	0.04	1.3	0.03	0.3	0.2	0.06	7	<0.5	0.2
SS10-129	Soil	10	11	0.23	125	0.004	3	1.43	0.008	0.06	1.1	0.13	0.7	0.2	0.05	7	0.5	<0.2
SS10-130	Soil	5	7	0.06	31	0.007	2	1.10	0.010	0.05	1.2	0.07	0.4	0.1	0.11	5	<0.5	0.2
SS10-131	Soil	21	19	0.33	70	0.015	6	2.06	0.009	0.08	0.7	0.63	3.0	0.2	0.14	7	3.0	<0.2
SS10-132	Soil	10	16	0.14	42	0.009	1	3.36	0.010	0.04	2.2	0.24	0.5	<0.1	0.13	6	2.0	<0.2
SS10-133	Soil	11	17	0.35	90	0.003	4	2.28	0.008	0.08	0.4	0.09	1.5	0.3	0.06	8	0.5	<0.2
SS10-134	Soil	6	12	0.17	36	0.016	2	2.02	0.009	0.04	4.0	0.07	0.7	0.1	0.10	9	0.8	<0.2
SS10-135	Soil	12	18	0.36	112	0.007	5	2.38	0.008	0.10	1.7	0.06	1.4	0.5	0.08	8	1.0	0.2
SS10-136	Soil	5	13	0.09	29	0.036	1	0.76	0.005	0.04	4.1	0.05	0.5	0.1	<0.05	10	<0.5	<0.2
SS10-137	Soil	8	15	0.22	46	0.018	4	2.54	0.007	0.05	1.7	0.10	0.8	0.1	0.09	11	1.4	0.2
SS10-138	Soil	5	14	0.13	35	0.031	1	1.34	0.006	0.04	2.0	0.06	0.9	<0.1	<0.05	9	<0.5	<0.2
SS10-139	Soil	9	10	0.18	46	0.012	3	1.30	0.007	0.08	1.6	0.05	0.5	0.2	0.08	9	<0.5	0.2
SS10-140	Soil	7	43	0.60	65	0.202	<1	2.39	0.013	0.17	0.4	0.08	1.4	0.1	0.07	7	<0.5	<0.2
SS10-141	Soil	9	13	0.39	61	0.023	4	1.65	0.010	0.11	2.3	0.05	1.2	0.2	0.09	9	0.7	<0.2
SS10-142	Soil	7	14	0.21	39	0.024	<1	1.79	0.006	0.04	0.9	0.06	0.8	<0.1	0.07	8	0.6	<0.2
SS10-143	Soil	5	11	0.42	40	0.100	2	1.04	0.011	0.08	0.5	0.05	0.8	0.2	<0.05	7	<0.5	<0.2
SS10-144	Soil	5	12	0.10	42	0.023	2	1.66	0.008	0.04	1.0	0.11	0.6	<0.1	0.11	6	1.0	0.2
SS10-145	Soil	8	12	0.16	44	0.008	5	1.72	0.004	0.07	3.7	0.07	0.7	0.3	<0.05	9	0.7	<0.2
SS10-146	Soil	6	11	0.14	38	0.037	<1	1.52	0.006	0.03	2.4	0.04	0.7	<0.1	0.05	9	0.5	<0.2
SS10-147	Soil	7	10	0.12	47	0.039	2	0.76	0.006	0.07	1.4	0.03	0.6	0.3	<0.05	7	<0.5	<0.2
SS10-148	Soil	6	16	0.21	40	0.020	2	2.11	0.006	0.04	2.3	0.07	1.0	0.1	0.12	11	0.8	0.2
SS10-149	Soil	6	23	0.60	201	0.087	1	1.16	0.009	0.26	2.3	0.05	3.0	0.3	0.19	8	0.5	<0.2
SS10-150	Soil	6	15	0.31	34	0.031	<1	2.12	0.010	0.07	0.5	0.09	0.6	<0.1	0.07	8	0.7	<0.2

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-151	Soil	50.7	116.6	11.5	24	0.8	4.9	4.0	358	4.88	6.5	2.4	1.8	1.4	5	0.3	1.7	0.9	85	0.04	0.116
SS10-152	Soil	2.9	9.2	6.1	11	0.4	2.3	1.6	51	0.88	3.4	0.5	3.1	<0.1	12	0.1	1.4	0.4	33	0.06	0.059
SS10-153	Soil	5.1	22.2	10.4	17	1.4	3.2	3.0	66	1.08	13.4	0.5	9.0	0.1	8	<0.1	3.2	0.6	37	0.02	0.042
SS10-154	Soil	1.7	3.8	1.6	5	0.2	1.3	0.7	25	0.53	0.8	0.2	3.9	0.3	7	0.1	0.3	<0.1	20	0.03	0.021
SS10-155	Soil	7.0	13.1	7.5	14	0.3	3.2	1.6	139	0.78	3.9	0.6	5.6	0.2	7	<0.1	1.2	0.6	32	0.05	0.054
SS10-156	Soil	8.8	24.7	13.6	17	0.3	3.8	3.2	54	1.74	11.8	1.2	4.3	0.2	7	0.2	3.1	0.8	42	0.05	0.070
SS10-157	Soil	27.9	58.5	51.0	13	0.7	3.2	2.1	127	0.81	3.0	1.2	4.7	0.3	8	0.2	1.5	0.7	33	0.03	0.046
SS10-158	Soil	7.5	68.7	15.9	21	1.1	5.6	4.4	92	1.91	14.6	1.6	5.9	0.1	7	0.2	3.0	0.7	36	0.03	0.095
SS10-159	Soil	6.1	60.4	13.1	17	1.0	3.6	4.5	98	1.10	9.2	1.2	38.3	0.1	9	0.1	2.9	1.6	28	0.03	0.063
SS10-160	Soil	7.5	136.4	27.1	41	0.9	6.2	5.8	132	2.76	21.3	2.8	81.4	0.3	11	0.3	7.8	0.9	46	0.03	0.097
SS10-161	Soil	7.9	32.4	14.9	20	0.6	1.9	2.8	101	1.43	19.0	0.5	16.5	<0.1	8	0.1	4.9	1.0	37	0.04	0.101
SS10-162	Soil	5.0	23.4	14.5	17	1.1	5.2	2.8	113	1.25	5.3	0.8	4.4	0.4	9	0.1	1.5	0.6	40	0.05	0.055
SS10-163	Soil	6.4	49.0	10.6	35	0.4	6.3	6.5	217	1.78	13.7	1.1	8.6	0.2	11	0.2	5.2	0.6	50	0.03	0.063
SS10-164	Soil	11.0	171.5	37.9	30	1.9	5.3	6.6	189	1.67	13.7	4.9	3.5	0.2	13	0.2	5.5	0.7	35	0.11	0.086
SS10-165	Soil	4.6	17.2	11.7	13	0.4	2.6	3.2	35	0.81	8.5	0.6	10.2	<0.1	23	0.1	4.7	1.2	33	0.03	0.044
SS10-166	Soil	56.5	438.9	20.2	47	1.0	5.2	6.3	188	4.00	31.5	2.8	7.9	0.4	9	0.8	15.7	1.5	63	0.04	0.069
SS10-167	Soil	9.2	105.0	22.0	43	0.9	4.7	5.4	98	3.00	28.6	1.8	4.2	1.4	10	0.3	9.1	0.8	46	0.04	0.125
SS10-168	Soil	7.4	35.4	11.9	12	0.7	5.7	2.6	133	1.62	8.2	1.8	2.1	0.2	8	0.3	1.3	0.4	39	0.05	0.068
SS10-169	Soil	20.1	371.1	34.6	30	1.3	5.2	7.1	362	2.06	12.5	11.5	5.4	0.7	10	0.6	3.0	0.6	33	0.09	0.241
SS10-170	Soil	11.3	345.4	15.0	12	1.3	2.6	2.5	105	1.21	10.9	3.6	3.9	<0.1	9	0.3	2.5	1.7	31	0.05	0.087
SS10-171	Soil	62.9	270.1	74.8	43	0.3	5.7	71.1	4574	4.08	46.1	5.5	7.8	1.0	12	0.7	9.0	1.6	92	0.05	0.126
SS10-172	Soil	6.2	209.8	44.6	32	2.3	5.7	4.8	101	1.47	15.2	2.6	3.3	0.2	11	0.2	4.7	0.6	30	0.04	0.119
SS10-173	Soil	13.7	81.4	14.8	34	0.4	3.9	4.7	113	2.69	25.4	1.2	6.1	0.2	9	0.2	9.3	0.9	60	0.06	0.181
SS10-174	Soil	20.8	234.9	23.8	56	0.8	6.2	3.6	79	1.90	15.2	3.6	5.5	0.7	10	0.2	7.2	0.9	49	0.06	0.068
SS10-175	Soil	4.9	17.2	13.9	12	0.7	2.9	2.3	34	1.30	14.3	0.6	2.9	<0.1	9	0.1	4.1	1.1	46	0.04	0.072
SS10-176	Soil	11.4	361.5	69.5	82	1.5	11.7	7.1	163	2.51	36.2	3.0	18.7	1.2	21	0.2	9.4	0.8	54	0.15	0.106
SS10-177	Soil	4.7	31.3	8.5	14	0.3	4.0	3.3	213	1.23	2.6	0.8	5.7	0.6	8	<0.1	1.5	0.7	44	0.05	0.054
SS10-178	Soil	15.9	472.1	132.0	94	1.2	12.5	4.3	171	2.75	61.5	10.9	*	2.3	13	0.2	5.3	0.6	39	0.11	0.253
SS10-179	Soil	7.0	168.3	13.4	42	1.6	5.7	6.0	235	1.93	14.0	2.5	9.0	0.5	13	0.2	4.1	1.1	42	0.10	0.352
SS10-180	Soil	13.2	310.5	97.3	54	1.6	2.9	1.5	130	2.14	53.4	5.6	*	8.1	3	0.2	4.1	0.7	23	0.06	0.117

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
SS10-151	Soil	5	22	0.55	67	0.063	<1	2.18	0.005	0.08	11.6	0.11	1.9	0.1	0.07	12	1.5	0.2
SS10-152	Soil	4	12	0.07	47	0.016	<1	0.84	0.005	0.04	0.5	0.06	0.4	<0.1	<0.05	7	<0.5	<0.2
SS10-153	Soil	6	15	0.09	39	0.016	1	1.33	0.005	0.03	1.4	0.05	0.6	0.2	0.06	8	<0.5	<0.2
SS10-154	Soil	7	7	0.02	17	0.016	<1	0.48	0.004	0.03	0.3	0.01	0.4	0.1	<0.05	5	<0.5	<0.2
SS10-155	Soil	5	10	0.21	46	0.041	2	0.59	0.006	0.09	1.6	0.03	0.7	0.2	0.14	7	<0.5	<0.2
SS10-156	Soil	4	12	0.11	25	0.033	1	0.87	0.005	0.02	4.9	0.07	0.4	<0.1	0.11	10	<0.5	0.3
SS10-157	Soil	6	9	0.18	55	0.063	1	0.82	0.005	0.05	0.8	0.04	0.7	0.1	0.09	8	<0.5	<0.2
SS10-158	Soil	6	11	0.10	33	0.009	2	1.49	0.005	0.04	2.0	0.10	0.3	0.1	0.16	8	<0.5	0.2
SS10-159	Soil	7	7	0.14	37	0.016	1	0.83	0.004	0.05	2.7	0.05	0.3	0.2	0.07	7	<0.5	0.5
SS10-160	Soil	7	16	0.22	45	0.013	<1	2.29	0.006	0.03	4.1	0.11	0.7	<0.1	0.18	8	1.2	0.3
SS10-161	Soil	6	5	0.06	24	0.011	1	0.81	0.002	0.03	5.5	0.05	0.3	0.2	0.09	8	<0.5	<0.2
SS10-162	Soil	6	15	0.27	49	0.069	1	0.94	0.007	0.10	1.9	0.07	0.8	0.2	0.08	9	<0.5	<0.2
SS10-163	Soil	6	15	0.22	38	0.022	1	1.17	0.006	0.04	3.6	0.04	0.7	<0.1	0.14	7	<0.5	<0.2
SS10-164	Soil	8	11	0.17	50	0.014	2	1.78	0.006	0.03	3.0	0.10	0.5	<0.1	0.16	8	1.7	<0.2
SS10-165	Soil	6	7	0.06	43	0.024	1	0.70	0.004	0.04	2.8	0.03	0.4	0.2	<0.05	9	<0.5	0.2
SS10-166	Soil	6	14	0.19	56	0.020	2	1.80	0.005	0.04	4.8	0.06	1.0	0.1	0.14	10	1.0	<0.2
SS10-167	Soil	7	24	0.15	40	0.019	2	4.08	0.006	0.03	5.4	0.12	1.3	<0.1	0.18	6	1.3	<0.2
SS10-168	Soil	5	12	0.14	43	0.035	<1	1.60	0.005	0.03	1.0	0.08	0.8	<0.1	0.16	8	0.5	<0.2
SS10-169	Soil	10	17	0.13	59	0.010	1	2.49	0.009	0.06	3.4	0.20	0.5	0.2	0.22	6	2.6	<0.2
SS10-170	Soil	6	9	0.10	36	0.013	<1	1.38	0.006	0.03	1.9	0.10	0.3	<0.1	0.13	9	0.8	<0.2
SS10-171	Soil	6	12	0.25	72	0.065	2	1.19	0.007	0.09	7.1	0.04	1.4	0.3	0.11	11	0.9	0.3
SS10-172	Soil	9	12	0.17	56	0.009	2	2.11	0.007	0.04	1.7	0.13	0.6	<0.1	0.16	6	1.0	<0.2
SS10-173	Soil	5	14	0.15	32	0.027	1	0.88	0.005	0.04	4.3	0.06	0.6	0.1	0.10	9	<0.5	<0.2
SS10-174	Soil	10	17	0.29	65	0.015	2	2.11	0.006	0.04	3.5	0.06	1.2	0.2	0.10	9	1.1	<0.2
SS10-175	Soil	5	10	0.08	26	0.040	1	0.77	0.005	0.03	2.3	0.06	0.4	0.1	0.07	14	<0.5	<0.2
SS10-176	Soil	15	21	0.50	96	0.025	3	2.20	0.009	0.05	5.2	0.14	2.0	0.2	0.07	9	0.8	<0.2
SS10-177	Soil	4	13	0.27	61	0.111	1	0.57	0.008	0.11	5.9	0.03	1.1	0.1	0.05	8	<0.5	<0.2
SS10-178	Soil	30	20	0.36	194	0.060	2	2.57	0.043	0.10	1.1	0.22	4.0	0.2	0.13	13	2.2	<0.2
SS10-179	Soil	8	24	0.28	58	0.036	2	2.67	0.005	0.05	4.4	0.13	0.8	<0.1	<0.05	10	0.9	<0.2
SS10-180	Soil	30	11	0.09	51	0.116	<1	2.94	0.091	0.10	1.8	0.15	1.9	<0.1	0.07	24	2.1	<0.2

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-181	Soil	3.9	117.5	7.8	13	0.6	3.8	4.4	105	1.51	3.0	1.3	7.1	0.3	7	0.2	0.4	5.7	35	0.04	0.091
SS10-182	Soil	4.5	147.9	41.9	22	0.6	4.3	3.0	68	1.07	8.5	3.1	3.6	<0.1	13	<0.1	2.4	0.6	32	0.06	0.111
SS10-183	Soil	0.8	4.7	1.8	9	0.2	2.1	2.1	42	1.26	<0.5	0.3	0.6	0.3	5	<0.1	<0.1	0.2	41	0.07	0.037
SS10-184	Soil	12.4	194.3	53.1	70	0.3	5.4	9.5	155	3.40	67.8	2.2	9.0	0.9	8	0.2	20.3	1.2	38	0.03	0.096
SS10-185	Soil	16.3	77.7	14.8	50	1.0	6.5	6.9	106	2.70	19.7	1.6	5.7	0.4	13	0.3	6.9	0.6	58	0.06	0.090
SS10-186	Soil	17.6	61.6	22.7	44	0.1	3.4	5.5	78	1.84	73.7	0.9	1.4	0.1	7	0.2	19.0	0.8	60	0.02	0.075
SS10-187	Soil	14.0	382.4	76.4	118	0.1	14.1	9.8	96	1.59	14.6	5.4	5.6	1.8	11	0.6	3.9	0.5	40	0.20	0.133
SS10-188	Soil	55.6	990.5	260.9	53	5.9	6.2	3.0	120	3.45	66.9	33.3	26.5	3.3	22	1.4	9.1	1.1	33	0.29	0.321
SS10-189	Soil	51.6	117.5	33.1	43	0.1	2.9	2.2	22	1.22	16.2	1.5	5.2	0.5	8	0.2	3.2	0.5	26	0.04	0.087
SS10-190	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-191	Soil	9.4	58.0	11.8	14	1.2	4.9	3.0	127	1.69	16.3	2.6	1.4	0.6	6	0.2	2.7	0.4	33	0.04	0.109
SS10-192	Soil	11.9	45.7	22.7	15	0.3	1.7	1.6	21	0.49	7.4	1.3	2.9	0.7	8	0.1	1.4	0.5	18	0.04	0.073
SS10-193	Soil	9.4	37.1	9.8	21	0.2	2.6	2.7	44	1.12	18.6	0.8	9.4	0.9	8	0.2	3.4	0.4	25	0.02	0.071
SS10-194	Soil	15.0	290.8	12.0	30	1.1	3.7	2.8	247	1.04	9.6	5.9	5.7	3.2	6	0.2	2.5	0.4	22	0.04	0.117
SS10-195	Soil	42.8	107.1	39.9	58	0.6	4.2	5.9	295	3.11	89.3	1.3	3.2	0.3	4	0.2	16.3	2.4	80	0.02	0.120
SS10-196	Soil	23.0	320.2	10.8	43	1.0	6.4	5.7	156	1.83	19.0	2.7	5.8	0.9	9	0.3	3.6	0.4	29	0.07	0.094
SS10-197	Soil	26.8	128.7	30.9	54	0.2	5.8	9.5	137	4.27	69.9	2.2	21.4	0.6	6	0.2	13.4	1.2	66	0.02	0.100
SS10-198	Soil	13.0	50.6	13.6	20	0.4	3.9	3.2	92	1.74	13.1	1.1	<0.5	0.1	7	0.1	2.4	0.4	42	0.07	0.084
SS10-199	Soil	6.8	75.0	9.7	19	0.6	3.2	2.8	94	2.55	20.0	1.4	3.7	1.6	5	0.2	2.9	0.5	39	0.03	0.105
SS10-200	Soil	2.6	13.9	2.2	8	0.3	1.8	1.2	17	0.51	1.8	0.5	3.0	0.4	5	<0.1	1.2	<0.1	17	0.01	0.048
SS10-201	Soil	2.6	51.1	8.7	11	0.2	3.0	2.6	39	1.01	5.9	2.1	2.0	0.3	10	<0.1	1.8	0.4	33	0.03	0.095
SS10-202	Soil	6.7	29.2	16.0	13	2.0	2.5	2.0	64	0.90	11.3	1.4	6.3	0.2	6	0.1	2.3	0.9	21	0.03	0.092
SS10-203	Soil	11.8	41.2	11.7	26	0.3	5.2	5.2	72	1.81	11.6	1.5	11.4	0.3	9	<0.1	5.2	0.7	60	0.04	0.064
SS10-204	Soil	8.2	17.7	6.4	14	0.2	3.6	3.7	125	1.03	6.4	0.8	11.2	0.3	4	<0.1	1.0	0.6	32	0.01	0.039
SS10-205	Soil	42.9	267.6	51.4	33	0.8	7.6	10.8	409	3.18	14.1	4.2	5.1	0.2	12	0.3	3.8	0.5	58	0.08	0.107
SS10-206	Soil	6.5	27.3	11.5	16	0.3	3.1	2.3	77	1.07	7.3	0.8	3.0	0.1	7	0.1	1.6	0.4	37	0.02	0.060
SS10-207	Soil	28.2	173.5	22.1	55	0.4	5.2	8.3	87	2.53	29.9	3.5	8.0	0.4	12	0.2	12.4	0.7	55	0.04	0.101
SS10-208	Soil	7.4	64.1	11.6	24	0.4	3.8	3.3	94	1.65	16.2	1.5	3.5	0.3	8	0.2	3.4	0.5	36	0.03	0.080
SS10-209	Soil	31.2	94.0	10.8	11	1.2	2.7	1.6	34	1.59	6.5	3.1	3.4	0.4	11	<0.1	1.2	0.7	41	0.03	0.089
SS10-210	Soil	3.5	20.7	4.2	10	0.3	1.9	2.1	28	0.71	3.0	0.9	8.8	<0.1	8	0.1	1.0	0.3	24	0.03	0.083

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
SS10-181	Soil	4	13	0.16	51	0.062	1	0.71	0.005	0.07	1.8	0.05	0.6	0.1	0.11	6	0.6	1.8
SS10-182	Soil	8	13	0.24	59	0.018	2	1.57	0.008	0.05	0.9	0.09	0.3	0.2	0.17	9	1.0	<0.2
SS10-183	Soil	3	9	0.09	14	0.032	<1	0.37	0.010	0.04	0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
SS10-184	Soil	11	14	0.22	48	0.008	3	2.65	0.005	0.04	4.2	0.06	1.0	0.2	0.08	8	1.0	0.2
SS10-185	Soil	9	17	0.18	67	0.024	2	2.80	0.006	0.11	3.8	0.07	1.1	0.2	0.15	9	0.7	<0.2
SS10-186	Soil	9	10	0.05	41	0.005	2	1.32	0.006	0.04	2.3	0.04	0.4	0.2	0.09	8	<0.5	<0.2
SS10-187	Soil	15	24	0.47	221	0.008	3	2.44	0.009	0.06	0.6	0.14	2.2	0.3	0.10	8	1.5	<0.2
SS10-188	Soil	43	22	0.17	189	0.017	2	4.23	0.011	0.06	1.8	1.28	4.2	0.1	0.26	6	5.6	<0.2
SS10-189	Soil	10	10	0.09	133	0.002	2	1.83	0.010	0.05	1.6	0.08	0.9	0.4	0.06	6	0.6	<0.2
SS10-190	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-191	Soil	7	17	0.12	42	0.011	2	2.14	0.009	0.04	1.3	0.13	0.5	0.1	0.10	8	0.8	<0.2
SS10-192	Soil	8	7	0.09	79	0.004	1	1.58	0.006	0.03	1.4	0.05	0.6	0.4	<0.05	7	<0.5	<0.2
SS10-193	Soil	9	7	0.05	41	0.002	1	1.72	0.005	0.02	2.3	0.04	0.7	0.1	<0.05	7	<0.5	<0.2
SS10-194	Soil	9	15	0.11	54	0.007	2	2.59	0.008	0.04	5.1	0.23	1.3	0.1	0.06	6	1.0	<0.2
SS10-195	Soil	14	11	0.10	45	0.005	2	1.45	0.005	0.05	9.3	0.06	0.8	0.4	<0.05	9	1.7	0.5
SS10-196	Soil	9	13	0.17	112	0.007	3	1.84	0.008	0.06	12.7	0.12	1.0	0.2	0.07	6	0.6	<0.2
SS10-197	Soil	8	15	0.12	45	0.008	2	2.70	0.004	0.03	4.4	0.09	1.0	0.2	0.07	12	0.9	0.3
SS10-198	Soil	5	12	0.22	39	0.022	3	1.28	0.011	0.06	2.8	0.07	0.5	0.1	<0.05	6	<0.5	0.3
SS10-199	Soil	7	13	0.13	34	0.006	2	2.53	0.006	0.03	3.2	0.07	1.2	0.2	0.08	9	0.8	<0.2
SS10-200	Soil	11	6	0.07	39	0.006	2	1.00	0.006	0.03	2.9	0.03	0.4	0.2	<0.05	7	<0.5	<0.2
SS10-201	Soil	8	12	0.09	35	0.009	1	2.19	0.005	0.02	1.3	0.07	0.4	<0.1	0.08	9	0.7	<0.2
SS10-202	Soil	6	9	0.11	39	0.005	1	1.23	0.007	0.05	6.4	0.09	0.2	0.1	0.06	6	<0.5	<0.2
SS10-203	Soil	6	15	0.13	35	0.036	2	1.24	0.007	0.05	4.5	0.05	0.7	<0.1	0.06	9	<0.5	<0.2
SS10-204	Soil	7	7	0.15	64	0.017	2	0.89	0.007	0.07	0.9	0.02	0.7	0.2	<0.05	4	<0.5	<0.2
SS10-205	Soil	10	16	0.32	61	0.018	2	2.04	0.006	0.05	2.5	0.10	0.6	0.1	0.09	8	1.4	<0.2
SS10-206	Soil	8	11	0.07	48	0.010	<1	1.09	0.006	0.04	0.9	0.04	0.4	<0.1	<0.05	5	<0.5	<0.2
SS10-207	Soil	7	16	0.21	49	0.011	2	2.20	0.007	0.04	6.4	0.10	0.7	0.1	0.11	11	1.4	<0.2
SS10-208	Soil	6	11	0.14	49	0.010	2	1.93	0.007	0.03	2.5	0.07	0.4	0.2	0.08	7	0.6	<0.2
SS10-209	Soil	6	11	0.08	41	0.011	<1	2.05	0.008	0.03	1.7	0.13	0.5	<0.1	0.06	8	0.7	<0.2
SS10-210	Soil	5	9	0.05	36	0.006	12	0.95	0.008	0.03	0.9	0.04	0.2	<0.1	0.09	6	<0.5	<0.2

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Project: Sultana
 Report Date: September 05, 2010

Page: 9 of 9 Part 1

CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-211	Soil	5.0	35.0	9.7	10	0.7	2.3	3.5	22	0.69	7.9	1.8	14.4	0.2	18	<0.1	7.9	0.4	28	0.03	0.085
SS10-212	Soil	4.6	63.3	9.4	15	<0.1	3.4	3.6	51	1.18	6.3	1.6	7.2	0.1	8	<0.1	2.3	0.5	40	0.04	0.064
SS10-213	Soil	18.6	72.5	30.8	38	0.5	9.1	5.6	366	2.85	13.6	2.1	2.6	0.1	13	0.2	2.2	0.5	60	0.09	0.078
SS10-214	Soil	3.5	18.7	3.5	10	0.2	2.3	2.1	34	0.93	3.9	0.7	8.3	<0.1	8	<0.1	1.6	0.3	34	0.02	0.045
SS10-215	Soil	37.3	32.7	20.3	22	0.2	4.9	7.8	762	2.19	9.4	1.1	0.9	0.1	12	0.2	1.7	0.3	56	0.04	0.087
SS10-216	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-217	Soil	22.3	134.0	41.4	42	1.0	4.9	7.4	412	2.53	13.3	2.3	5.6	0.1	12	0.5	4.1	0.5	37	0.04	0.109
SS10-218	Soil	3.9	4.9	3.5	4	0.1	1.0	0.7	25	0.37	<0.5	0.3	2.1	<0.1	5	<0.1	1.1	0.2	19	0.02	0.019
SS10-219	Soil	3.1	5.7	3.5	6	0.2	1.6	0.9	25	0.52	0.8	0.3	3.4	<0.1	11	<0.1	0.9	0.2	19	0.03	0.024
SS10-220	Soil	2.5	6.2	4.1	8	<0.1	1.2	0.9	31	0.51	1.5	0.4	3.0	<0.1	9	<0.1	1.1	0.3	23	0.03	0.029
SS10-221	Soil	3.8	13.3	6.8	13	<0.1	2.6	3.5	79	0.78	4.0	0.5	6.4	0.1	14	<0.1	2.7	0.7	33	0.03	0.038
SS10-222	Soil	22.0	46.8	16.8	26	0.2	6.2	5.7	201	1.72	8.6	1.1	1.5	0.3	8	0.1	1.9	0.5	45	0.05	0.052
SS10-223	Soil	3.2	20.7	4.4	14	1.5	3.3	1.8	50	0.92	1.6	0.9	1.7	<0.1	11	0.1	0.8	0.2	26	0.08	0.089
SS10-224	Soil	19.7	102.5	20.5	58	0.3	5.8	8.7	152	2.25	29.2	1.5	11.0	0.3	10	0.2	10.9	0.8	53	0.04	0.061
SS10-225	Soil	6.3	76.7	17.1	73	0.3	9.2	7.7	451	3.85	21.6	1.1	7.6	0.9	12	0.2	5.0	0.9	84	0.06	0.088
SS10-226	Soil	4.7	6.9	4.6	10	<0.1	1.8	1.4	121	0.50	1.4	0.4	2.0	0.2	15	<0.1	0.8	0.3	18	0.04	0.040
SS10-227	Soil	1.2	9.6	3.1	8	0.1	3.7	4.3	52	0.83	<0.5	0.3	3.3	0.3	5	<0.1	0.3	0.2	33	0.05	0.018
SS10-228	Soil	5.1	15.9	5.6	17	0.4	2.5	2.6	56	1.17	8.7	0.4	6.6	<0.1	8	0.1	2.1	0.5	42	0.04	0.043
SS10-229	Soil	2.2	6.5	3.6	7	0.1	2.1	2.3	39	1.35	1.1	0.3	1.2	<0.1	17	<0.1	0.5	0.3	48	0.03	0.021
SS10-230	Soil	7.8	41.9	12.1	30	0.3	3.8	5.4	78	1.65	25.0	1.4	3.1	<0.1	7	<0.1	7.7	1.1	61	0.03	0.064
SS10-231	Soil	3.5	14.0	4.7	13	0.3	5.6	5.3	79	1.72	2.2	0.4	3.8	0.4	19	<0.1	0.7	0.5	57	0.04	0.040
SS10-232	Soil	3.6	21.0	8.4	12	0.2	2.7	2.1	177	0.69	2.3	0.8	2.8	0.1	9	<0.1	1.0	0.4	22	0.04	0.065
SS10-233	Soil	4.2	10.3	4.3	10	0.1	3.0	4.7	48	1.42	2.4	0.4	3.5	0.2	9	<0.1	1.1	0.7	52	0.02	0.016
SS10-234	Soil	2.1	6.9	6.5	12	0.3	2.7	1.4	247	0.54	1.6	0.5	2.3	0.1	9	<0.1	0.8	0.4	16	0.03	0.043
SS10-235	Soil	5.2	22.0	10.8	19	0.2	3.2	4.3	95	1.38	5.6	0.6	7.1	0.2	14	<0.1	1.9	1.0	52	0.03	0.038
SS10-236	Soil	10.8	31.1	7.5	19	1.0	2.2	2.6	46	0.83	4.4	1.1	4.8	0.1	10	0.1	2.5	0.5	23	0.05	0.071
SS10-237	Soil	3.6	15.6	6.7	8	0.5	2.2	2.1	40	0.78	1.8	0.6	1.1	0.1	10	<0.1	0.7	0.4	33	0.04	0.035
SS10-238	Soil	1.8	7.2	5.1	9	0.1	1.7	2.1	30	0.56	2.1	0.4	2.4	0.2	8	<0.1	1.8	0.4	22	0.03	0.026
SS10-239	Soil	1.3	5.1	3.2	4	<0.1	1.3	0.7	14	0.50	<0.5	0.2	7.3	<0.1	9	<0.1	0.2	0.2	23	0.03	0.017

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Project: Sultana
 Report Date: September 05, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
SS10-211	Soil	8	8	0.04	41	0.005	1	1.39	0.006	0.04	0.5	0.05	0.2	0.2	<0.05	6	<0.5	<0.2
SS10-212	Soil	7	12	0.11	51	0.017	1	1.50	0.008	0.05	1.2	0.04	0.5	0.1	0.06	9	0.6	<0.2
SS10-213	Soil	10	20	0.43	42	0.024	2	2.00	0.007	0.06	0.4	0.07	0.9	<0.1	0.05	10	1.0	<0.2
SS10-214	Soil	6	10	0.07	33	0.010	<1	0.89	0.006	0.03	0.6	0.03	0.3	0.1	<0.05	7	<0.5	<0.2
SS10-215	Soil	6	14	0.14	69	0.017	1	1.02	0.007	0.06	1.4	0.05	0.6	0.1	0.12	5	<0.5	<0.2
SS10-216	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-217	Soil	7	12	0.15	59	0.007	2	2.13	0.006	0.06	1.1	0.09	0.4	0.1	0.10	8	0.9	<0.2
SS10-218	Soil	3	5	0.04	18	0.031	<1	0.31	0.005	0.02	0.2	0.04	0.2	<0.1	<0.05	4	<0.5	<0.2
SS10-219	Soil	5	8	0.05	30	0.014	1	0.53	0.006	0.04	0.2	0.02	0.2	0.1	<0.05	4	<0.5	<0.2
SS10-220	Soil	6	6	0.04	34	0.011	1	0.69	0.006	0.03	0.2	0.03	0.3	0.2	<0.05	6	<0.5	<0.2
SS10-221	Soil	6	8	0.10	42	0.046	1	0.74	0.005	0.05	0.6	0.03	0.4	0.2	<0.05	7	<0.5	<0.2
SS10-222	Soil	5	13	0.28	45	0.049	2	1.13	0.008	0.05	0.7	0.03	1.0	0.1	0.06	7	0.6	<0.2
SS10-223	Soil	4	13	0.14	63	0.039	2	0.58	0.010	0.08	1.3	0.12	0.5	0.2	0.07	3	<0.5	<0.2
SS10-224	Soil	7	12	0.28	50	0.015	4	2.15	0.004	0.05	4.0	0.05	0.8	0.2	0.07	9	0.8	<0.2
SS10-225	Soil	8	20	0.32	70	0.026	1	2.56	0.007	0.05	1.2	0.04	2.2	0.2	<0.05	12	<0.5	<0.2
SS10-226	Soil	8	5	0.07	43	0.005	3	0.81	0.007	0.05	1.0	0.03	0.4	0.2	<0.05	4	<0.5	<0.2
SS10-227	Soil	2	13	0.25	26	0.073	1	0.41	0.007	0.05	0.9	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
SS10-228	Soil	5	11	0.07	19	0.009	2	0.60	0.007	0.03	0.9	0.03	0.4	0.1	<0.05	7	<0.5	<0.2
SS10-229	Soil	4	12	0.05	38	0.022	1	0.44	0.007	0.02	0.5	0.02	0.3	<0.1	<0.05	5	<0.5	<0.2
SS10-230	Soil	7	9	0.04	25	0.009	1	0.86	0.005	0.04	3.2	0.06	0.4	<0.1	0.06	10	<0.5	<0.2
SS10-231	Soil	6	11	0.21	77	0.127	1	1.02	0.008	0.17	0.5	0.03	0.8	0.2	<0.05	9	<0.5	<0.2
SS10-232	Soil	7	8	0.08	50	0.009	2	0.72	0.008	0.05	1.3	0.04	0.4	0.2	0.06	4	<0.5	<0.2
SS10-233	Soil	5	15	0.04	22	0.030	1	0.68	0.004	0.02	0.7	0.01	0.4	0.1	<0.05	8	<0.5	<0.2
SS10-234	Soil	5	9	0.08	37	0.021	3	0.58	0.009	0.06	0.5	0.03	0.5	0.2	<0.05	4	<0.5	<0.2
SS10-235	Soil	5	13	0.08	36	0.047	1	0.98	0.005	0.02	1.2	0.02	0.6	<0.1	<0.05	12	<0.5	<0.2
SS10-236	Soil	5	9	0.12	44	0.023	3	0.70	0.010	0.06	1.5	0.06	0.5	0.1	0.09	4	<0.5	<0.2
SS10-237	Soil	5	11	0.09	38	0.036	<1	1.07	0.007	0.03	1.6	0.04	0.4	<0.1	<0.05	8	<0.5	<0.2
SS10-238	Soil	5	8	0.06	25	0.026	2	0.39	0.007	0.04	0.8	0.03	0.3	<0.1	<0.05	4	<0.5	<0.2
SS10-239	Soil	5	10	0.03	25	0.015	1	0.41	0.006	0.02	0.2	0.02	0.2	0.1	<0.05	4	<0.5	<0.2



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Project: Sultana
 Report Date: September 05, 2010

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000426.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
		ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1		0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
SS10-027	Soil	9.0	44.7	9.8	26	0.2	4.2	4.2	269	2.01	39.1	1.0	2.8	0.2	9	0.2	9.4	0.7	48	0.02	0.040		
REP SS10-027	QC	9.3	45.3	9.9	28	0.2	4.1	4.5	275	2.05	39.7	1.0	3.2	0.1	10	0.2	9.2	0.7	51	0.02	0.043		
SS10-031	Soil	130.0	522.1	62.8	73	0.4	11.0	20.9	832	4.10	24.9	12.6	1.9	0.3	26	0.5	5.9	1.4	59	0.24	0.208		
REP SS10-031	QC	131.3	536.6	66.1	71	0.4	10.7	20.4	857	4.05	25.9	12.5	7.1	0.3	26	0.5	6.1	1.5	61	0.24	0.213		
SS10-052	Soil	5.1	28.4	13.7	27	1.1	10.7	5.3	153	2.35	6.5	1.1	2.5	0.5	10	<0.1	2.3	0.4	69	0.07	0.053		
REP SS10-052	QC	5.1	28.5	14.4	27	1.2	11.2	5.5	154	2.31	6.2	1.1	4.3	0.4	9	<0.1	2.4	0.4	73	0.07	0.057		
SS10-070	Soil	12.2	137.9	13.6	42	0.3	6.8	6.0	158	2.91	22.8	2.4	11.3	0.4	15	<0.1	6.9	1.4	55	0.04	0.148		
REP SS10-070	QC	12.9	144.1	14.1	45	0.3	6.1	6.5	167	3.00	23.5	2.6	11.9	0.3	15	<0.1	6.7	1.4	59	0.05	0.153		
SS10-092	Soil	7.3	252.0	61.0	69	2.5	12.3	6.9	209	2.83	26.4	3.2	7.4	1.0	9	0.2	13.9	0.7	54	0.06	0.075		
REP SS10-092	QC	7.7	253.1	60.8	69	2.4	12.5	7.2	214	2.82	27.3	3.4	6.7	1.0	9	0.2	14.0	0.8	56	0.07	0.075		
SS10-108	Soil	10.3	204.1	28.1	59	0.3	9.1	6.5	178	3.68	30.2	3.1	8.0	0.5	13	<0.1	10.4	1.7	52	0.04	0.064		
REP SS10-108	QC	10.6	193.5	28.2	63	0.4	6.8	7.0	175	3.62	29.9	3.2	7.8	0.5	13	0.2	10.2	1.6	49	0.03	0.066		
SS10-136	Soil	5.3	25.8	6.5	10	0.6	2.5	3.1	47	1.27	8.1	0.7	33.3	0.2	10	0.1	2.4	1.1	44	0.05	0.048		
REP SS10-136	QC	5.5	26.3	7.2	11	0.6	2.8	2.9	52	1.19	8.0	0.9	6.4	0.2	11	<0.1	2.4	1.2	43	0.05	0.054		
SS10-151	Soil	50.7	116.6	11.5	24	0.8	4.9	4.0	358	4.88	6.5	2.4	1.8	1.4	5	0.3	1.7	0.9	85	0.04	0.116		
REP SS10-151	QC	53.4	123.2	11.5	27	0.9	4.9	4.5	408	5.22	7.5	2.4	4.5	1.2	6	0.2	2.0	1.0	91	0.04	0.128		
SS10-159	Soil	6.1	60.4	13.1	17	1.0	3.6	4.5	98	1.10	9.2	1.2	38.3	0.1	9	0.1	2.9	1.6	28	0.03	0.063		
REP SS10-159	QC	6.2	58.5	13.3	18	1.1	3.5	5.2	90	1.14	9.5	1.2	50.2	0.2	9	0.1	2.8	1.7	27	0.03	0.063		
SS10-176	Soil	11.4	361.5	69.5	82	1.5	11.7	7.1	163	2.51	36.2	3.0	18.7	1.2	21	0.2	9.4	0.8	54	0.15	0.106		
REP SS10-176	QC	10.7	356.7	68.0	77	1.5	11.8	7.2	160	2.55	35.2	3.0	6.6	1.1	20	0.2	9.4	0.7	57	0.15	0.105		
SS10-191	Soil	9.4	58.0	11.8	14	1.2	4.9	3.0	127	1.69	16.3	2.6	1.4	0.6	6	0.2	2.7	0.4	33	0.04	0.109		
REP SS10-191	QC	10.0	60.1	10.9	14	1.2	4.7	2.9	129	1.64	16.4	2.5	2.1	0.2	6	0.2	2.9	0.5	33	0.04	0.100		
SS10-217	Soil	22.3	134.0	41.4	42	1.0	4.9	7.4	412	2.53	13.3	2.3	5.6	0.1	12	0.5	4.1	0.5	37	0.04	0.109		
REP SS10-217	QC	21.5	138.4	41.7	40	1.0	5.1	7.4	428	2.65	13.3	2.2	2.9	0.1	12	0.4	4.7	0.5	38	0.04	0.105		
SS10-234	Soil	2.1	6.9	6.5	12	0.3	2.7	1.4	247	0.54	1.6	0.5	2.3	0.1	9	<0.1	0.8	0.4	16	0.03	0.043		
REP SS10-234	QC	1.9	6.3	6.3	12	0.2	2.3	1.5	259	0.51	1.7	0.4	7.1	<0.1	9	<0.1	0.7	0.3	15	0.03	0.041		
Reference Materials																							
STD DS7	Standard	22.4	115.5	69.6	410	1.0	59.0	9.9	639	2.47	54.1	5.0	78.4	4.9	85	6.0	6.8	4.9	88	0.95	0.075		



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1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5 Canada

Project: Sultana
Report Date: September 05, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000426.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
SS10-027	Soil	9	8	0.06	73	0.008	3	1.41	0.004	0.05	2.0	0.04	0.7	0.2	<0.05	6	<0.5	<0.2
REP SS10-027	QC	9	8	0.06	71	0.009	2	1.43	0.004	0.05	1.9	0.04	0.7	0.2	<0.05	6	<0.5	<0.2
SS10-031	Soil	11	21	0.35	151	0.013	4	2.44	0.010	0.08	5.0	0.06	0.7	0.3	0.15	9	2.1	0.2
REP SS10-031	QC	12	21	0.36	154	0.014	5	2.56	0.010	0.08	5.1	0.06	0.8	0.3	0.20	9	2.1	<0.2
SS10-052	Soil	6	35	0.51	37	0.150	2	1.95	0.012	0.05	1.1	0.08	1.5	<0.1	0.05	13	0.9	<0.2
REP SS10-052	QC	6	36	0.52	35	0.164	2	2.03	0.011	0.05	1.2	0.08	1.5	<0.1	0.07	13	0.8	<0.2
SS10-070	Soil	9	20	0.34	43	0.039	3	2.69	0.008	0.06	9.2	0.08	1.0	0.1	<0.05	12	1.6	0.6
REP SS10-070	QC	9	22	0.35	44	0.040	3	2.77	0.008	0.06	9.0	0.08	1.1	0.2	0.09	11	1.3	0.3
SS10-092	Soil	12	30	0.45	50	0.029	2	2.76	0.007	0.06	2.3	0.13	1.7	0.1	<0.05	11	0.8	<0.2
REP SS10-092	QC	12	29	0.46	50	0.030	3	2.84	0.007	0.07	2.1	0.13	1.6	0.2	<0.05	11	1.3	<0.2
SS10-108	Soil	8	21	0.29	42	0.023	2	2.71	0.005	0.03	7.0	0.11	1.2	0.1	<0.05	8	1.2	<0.2
REP SS10-108	QC	9	19	0.29	42	0.023	<1	2.72	0.005	0.04	7.3	0.13	1.2	0.1	<0.05	8	0.6	0.6
SS10-136	Soil	5	13	0.09	29	0.036	1	0.76	0.005	0.04	4.1	0.05	0.5	0.1	<0.05	10	<0.5	<0.2
REP SS10-136	QC	5	12	0.08	28	0.033	<1	0.80	0.006	0.04	4.6	0.06	0.6	0.1	0.11	10	<0.5	0.2
SS10-151	Soil	5	22	0.55	67	0.063	<1	2.18	0.005	0.08	11.6	0.11	1.9	0.1	0.07	12	1.5	0.2
REP SS10-151	QC	6	24	0.61	73	0.094	1	2.31	0.006	0.10	17.1	0.08	2.1	0.1	<0.05	12	1.4	<0.2
SS10-159	Soil	7	7	0.14	37	0.016	1	0.83	0.004	0.05	2.7	0.05	0.3	0.2	0.07	7	<0.5	0.5
REP SS10-159	QC	6	8	0.14	37	0.015	1	0.83	0.005	0.04	2.9	0.06	0.4	0.2	0.07	7	<0.5	<0.2
SS10-176	Soil	15	21	0.50	96	0.025	3	2.20	0.009	0.05	5.2	0.14	2.0	0.2	0.07	9	0.8	<0.2
REP SS10-176	QC	14	20	0.49	96	0.024	3	2.18	0.009	0.05	4.9	0.13	2.0	0.2	<0.05	8	1.1	<0.2
SS10-191	Soil	7	17	0.12	42	0.011	2	2.14	0.009	0.04	1.3	0.13	0.5	0.1	0.10	8	0.8	<0.2
REP SS10-191	QC	7	17	0.12	40	0.018	3	2.01	0.009	0.04	1.5	0.14	0.4	0.2	0.06	8	0.9	<0.2
SS10-217	Soil	7	12	0.15	59	0.007	2	2.13	0.006	0.06	1.1	0.09	0.4	0.1	0.10	8	0.9	<0.2
REP SS10-217	QC	7	13	0.15	61	0.012	3	2.02	0.006	0.06	1.5	0.08	0.6	0.1	0.10	8	1.0	<0.2
SS10-234	Soil	5	9	0.08	37	0.021	3	0.58	0.009	0.06	0.5	0.03	0.5	0.2	<0.05	4	<0.5	<0.2
REP SS10-234	QC	5	8	0.07	36	0.014	2	0.55	0.008	0.05	0.3	0.03	0.3	0.2	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	194	1.06	432	0.130	37	1.02	0.096	0.46	3.7	0.21	2.4	4.3	0.17	5	3.2	0.6

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Duncastle Gold Corp.**
 1100 - 1199 West Hastings Street
 Vancouver BC V6E 3T5 Canada

Project: Sultana
 Report Date: September 05, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000426.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
STD DS7	Standard	22.0	108.9	60.1	378	1.0	55.7	9.4	608	2.34	50.7	4.3	70.3	4.1	76	6.3	5.8	4.3	82	0.96	0.079
STD DS7	Standard	22.3	108.0	57.7	401	1.0	56.0	9.6	624	2.32	51.9	4.4	90.2	3.9	73	6.6	5.4	4.3	81	0.95	0.078
STD DS7	Standard	20.9	115.6	64.9	406	1.0	54.5	10.4	643	2.38	57.0	4.5	72.0	4.0	71	6.4	5.9	4.5	88	0.96	0.077
STD DS7	Standard	20.5	102.4	65.4	391	0.9	54.3	8.9	635	2.33	50.0	4.6	70.7	4.5	82	5.7	5.7	4.3	84	0.97	0.073
STD DS7	Standard	19.7	98.1	64.0	367	1.0	49.2	8.7	578	2.19	45.7	4.4	63.5	4.2	65	5.4	5.2	4.2	77	0.86	0.070
STD DS7	Standard	21.4	105.9	68.0	402	1.0	54.3	8.8	629	2.33	51.2	4.5	79.7	4.3	70	5.8	5.6	4.5	83	0.93	0.075
STD DS7	Standard	19.7	113.0	65.1	384	1.0	54.4	9.2	589	2.27	46.4	4.6	64.4	4.3	62	6.1	5.3	4.4	82	0.84	0.070
STD DS7	Standard	20.9	108.1	65.9	408	1.0	56.3	9.4	632	2.31	52.7	4.6	71.3	4.3	73	6.6	6.2	4.6	83	0.97	0.085
STD DS7	Standard	22.9	121.1	69.1	433	1.2	62.1	10.5	708	2.61	57.7	5.1	84.6	4.7	76	6.2	6.4	4.7	98	1.04	0.079
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.9	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Sultana
 Report Date: September 05, 2010

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QUALITY CONTROL REPORT

SMI10000426.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS7	Standard	14	182	1.07	416	0.137	39	1.07	0.099	0.46	3.7	0.21	2.6	4.2	0.23	5	2.9	1.7
STD DS7	Standard	13	184	1.06	415	0.128	38	1.07	0.103	0.49	3.8	0.22	2.5	4.1	0.19	5	3.4	1.3
STD DS7	Standard	12	189	1.06	385	0.133	40	1.08	0.099	0.46	3.9	0.22	2.6	4.1	0.20	5	3.0	1.6
STD DS7	Standard	14	194	1.05	416	0.124	41	1.08	0.105	0.49	3.6	0.21	2.8	4.1	0.20	5	3.5	2.1
STD DS7	Standard	12	170	0.97	373	0.110	36	0.95	0.101	0.43	3.3	0.24	2.3	4.0	0.13	5	3.0	1.5
STD DS7	Standard	13	189	1.10	413	0.116	40	1.04	0.100	0.48	3.7	0.24	2.3	4.2	0.19	5	3.7	1.1
STD DS7	Standard	11	185	0.98	369	0.115	37	0.93	0.084	0.44	3.3	0.20	2.1	3.9	0.19	4	3.3	1.3
STD DS7	Standard	12	183	1.03	394	0.121	39	1.03	0.099	0.47	3.5	0.21	2.4	4.3	0.27	5	3.4	1.4
STD DS7	Standard	14	225	1.14	418	0.138	42	1.10	0.105	0.51	4.0	0.21	2.5	4.1	0.22	5	4.1	1.7
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	6	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Michael Rowley
Receiving Lab: Canada-Smithers
Received: August 17, 2010
Report Date: September 02, 2010
Page: 1 of 10

CERTIFICATE OF ANALYSIS

SMI10000426A.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 241

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Duncastle Gold Corp.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Betheny Jacobson
Tim Johnson
Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	241	Dry at 60C sieve 100g to -80 mesh			SMI
Dry at 60C	241	Dry at 60C			SMI
1DX2	220	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-240	Soil	2.4	11.0	4.2	17	0.2	5.9	2.0	98	0.80	4.0	0.6	1.3	0.1	7	<0.1	1.4	0.1	23	0.03	0.059
SS10-241	Soil	6.6	14.0	7.9	15	0.1	3.1	2.8	79	1.34	3.9	0.5	2.4	0.2	8	<0.1	0.6	0.5	52	0.03	0.021
SS10-242	Soil	18.5	495.3	37.3	37	2.2	7.9	6.9	323	2.91	11.6	9.6	7.6	1.6	11	0.5	1.9	0.7	29	0.08	0.170
SS10-243	Soil	3.9	13.0	10.1	8	0.3	2.5	2.7	25	0.95	2.3	0.5	4.8	0.2	13	<0.1	0.5	0.6	46	0.03	0.027
SS10-244	Soil	3.2	346.6	16.7	6	1.8	1.5	0.3	10	0.54	2.2	5.1	1.8	1.7	6	0.3	0.2	0.2	4	0.05	0.165
SS10-245	Soil	2.9	6.6	3.5	5	0.1	1.7	1.1	15	0.77	0.7	0.5	18.9	<0.1	8	<0.1	0.2	0.2	30	0.02	0.026
SS10-246	Soil	5.8	11.3	3.7	11	0.2	3.8	2.2	59	0.81	1.3	0.5	5.1	0.2	17	<0.1	0.3	0.2	28	0.07	0.053
SS10-247	Soil	1.4	5.9	7.9	5	0.1	1.8	0.5	13	0.29	0.9	0.5	9.8	<0.1	16	<0.1	0.3	0.4	15	0.02	0.024
SS10-248	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-249	Soil	1.2	28.8	9.0	8	0.3	3.0	0.9	19	0.43	2.9	2.3	1.4	0.2	7	0.1	0.3	0.2	14	0.03	0.178
SS10-250	Soil	9.5	42.1	10.0	19	0.5	2.0	1.7	72	0.57	8.9	0.9	1.3	<0.1	17	0.3	1.3	0.5	23	0.06	0.079
SS10-251	Soil	3.0	44.6	18.0	27	<0.1	6.1	2.9	98	2.02	9.9	1.7	2.1	0.2	8	0.2	1.2	0.5	51	0.04	0.064
SS10-252	Soil	8.1	32.1	8.2	26	0.9	4.5	3.3	164	1.24	3.4	1.4	5.4	0.4	9	0.2	1.1	0.6	37	0.06	0.078
SS10-253	Soil	5.2	75.3	12.8	22	0.3	4.0	2.8	133	1.68	9.0	1.3	3.4	0.2	18	0.2	1.2	0.6	51	0.04	0.054
SS10-254	Soil	18.0	160.8	36.6	25	6.1	5.1	2.7	291	1.88	12.3	4.2	10.5	0.2	11	0.6	4.2	1.0	37	0.04	0.158
SS10-255	Soil	2.9	27.3	14.0	13	0.9	2.1	1.5	59	0.90	5.4	1.1	11.9	0.2	25	0.2	0.7	0.7	41	0.03	0.039
SS10-256	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-257	Soil	4.0	18.6	11.6	22	0.3	3.5	2.6	72	1.14	6.0	0.8	6.0	0.2	12	0.1	0.9	0.9	46	0.03	0.038
SS10-258	Soil	1.8	14.9	5.9	12	0.8	1.6	1.0	310	0.36	0.5	0.5	1.0	<0.1	9	0.2	0.4	0.2	11	0.06	0.085
SS10-259	Soil	2.8	10.8	3.3	17	<0.1	1.6	1.9	38	0.62	3.7	0.2	4.0	0.1	8	<0.1	0.6	0.3	22	0.03	0.021
SS10-260	Soil	1.8	121.1	37.6	9	1.1	1.8	0.7	23	0.80	4.1	5.2	1.9	0.7	5	0.3	0.8	0.2	12	0.04	0.227
SS10-261	Soil	1.8	9.8	6.9	10	0.1	1.8	2.1	77	0.72	5.2	0.3	10.0	0.1	7	<0.1	0.7	0.7	30	0.03	0.023
SS10-262	Soil	1.8	5.3	6.4	7	0.1	1.6	1.7	95	0.66	1.6	0.3	1.4	0.1	8	0.1	0.3	0.4	31	0.03	0.026
SS10-263	Soil	3.0	17.5	7.5	15	0.3	2.6	2.3	147	1.21	7.3	0.7	2.9	0.1	8	0.1	1.3	0.6	37	0.03	0.053
SS10-264	Soil	2.1	11.0	6.8	18	0.5	7.3	4.1	100	1.39	1.7	1.1	0.5	0.9	4	0.1	0.2	0.1	36	0.05	0.076
SS10-265	Soil	2.7	11.7	6.6	9	0.3	2.2	2.5	43	0.56	4.8	0.5	3.0	<0.1	12	<0.1	1.1	0.7	19	0.04	0.043
SS10-266	Soil	9.0	49.1	15.3	38	0.3	5.6	6.7	250	2.63	17.4	1.4	10.0	0.4	10	0.3	3.2	1.1	60	0.05	0.065
SS10-267	Soil	4.0	48.2	9.0	42	1.6	2.5	1.0	95	0.90	5.5	3.0	2.4	0.3	7	0.2	0.7	0.3	20	0.03	0.161
SS10-268	Soil	20.5	120.2	34.5	39	2.6	9.3	14.6	711	2.59	32.6	3.0	6.1	0.1	14	0.6	2.6	0.7	51	0.06	0.161
SS10-269	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15																
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SS10-240	Soil	7	15	0.11	45	0.008	3	0.68	0.009	0.07	0.4	0.05	0.5	0.2	<0.05	4	<0.5	<0.2
SS10-241	Soil	5	15	0.07	30	0.036	<1	0.71	0.005	0.02	0.3	0.02	0.4	0.1	<0.05	8	<0.5	0.4
SS10-242	Soil	15	20	0.23	67	0.020	2	4.15	0.024	0.04	7.0	0.26	0.9	<0.1	0.09	6	2.7	<0.2
SS10-243	Soil	4	12	0.06	31	0.058	<1	0.82	0.005	0.02	0.6	0.03	0.4	<0.1	<0.05	9	<0.5	<0.2
SS10-244	Soil	7	8	0.02	26	0.011	1	3.79	0.013	0.02	3.0	0.19	0.9	<0.1	0.13	2	1.5	<0.2
SS10-245	Soil	4	20	0.03	29	0.012	<1	0.48	0.005	0.02	0.9	0.02	0.3	0.1	<0.05	5	<0.5	<0.2
SS10-246	Soil	3	16	0.16	77	0.061	<1	0.47	0.011	0.11	0.2	0.06	0.6	0.2	<0.05	4	<0.5	<0.2
SS10-247	Soil	4	6	0.03	36	0.014	<1	0.68	0.006	0.02	0.4	0.03	0.1	0.1	<0.05	5	<0.5	<0.2
SS10-248	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-249	Soil	5	8	0.04	23	0.006	1	1.84	0.007	0.03	0.4	0.14	0.2	<0.1	0.16	4	1.7	<0.2
SS10-250	Soil	5	5	0.05	67	0.011	2	0.80	0.008	0.05	1.7	0.07	0.2	<0.1	0.07	4	<0.5	0.2
SS10-251	Soil	9	16	0.19	31	0.022	<1	1.82	0.006	0.03	0.9	0.06	0.5	<0.1	<0.05	13	1.4	<0.2
SS10-252	Soil	6	12	0.32	48	0.035	1	1.09	0.009	0.06	1.3	0.07	0.9	<0.1	<0.05	6	0.6	<0.2
SS10-253	Soil	6	13	0.12	47	0.025	2	1.68	0.005	0.04	1.8	0.06	0.4	<0.1	<0.05	11	0.8	<0.2
SS10-254	Soil	7	14	0.11	48	0.012	3	2.20	0.011	0.06	2.9	0.22	0.3	0.1	0.12	7	1.6	<0.2
SS10-255	Soil	6	8	0.06	47	0.042	<1	1.20	0.005	0.03	1.6	0.06	0.3	<0.1	<0.05	10	<0.5	<0.2
SS10-256	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-257	Soil	5	11	0.12	38	0.051	1	0.85	0.006	0.04	3.3	0.03	0.5	<0.1	<0.05	9	<0.5	<0.2
SS10-258	Soil	3	3	0.03	46	0.008	<1	0.46	0.010	0.06	0.4	0.06	0.2	0.2	<0.05	2	<0.5	<0.2
SS10-259	Soil	5	8	0.02	19	0.006	1	0.36	0.004	0.02	1.1	0.02	0.3	0.1	<0.05	4	<0.5	<0.2
SS10-260	Soil	8	10	0.03	18	0.012	1	3.57	0.016	0.02	0.7	0.20	0.8	<0.1	0.16	4	2.3	<0.2
SS10-261	Soil	5	7	0.06	19	0.031	1	0.45	0.004	0.03	0.9	0.02	0.4	0.1	<0.05	6	<0.5	<0.2
SS10-262	Soil	4	8	0.09	23	0.027	1	0.51	0.006	0.03	0.4	0.03	0.4	<0.1	<0.05	6	<0.5	<0.2
SS10-263	Soil	5	9	0.10	36	0.009	2	1.63	0.005	0.02	1.4	0.06	0.2	0.1	0.06	9	0.6	<0.2
SS10-264	Soil	4	18	0.37	74	0.076	2	0.83	0.010	0.12	0.3	0.07	0.8	<0.1	0.08	5	<0.5	<0.2
SS10-265	Soil	4	6	0.07	31	0.013	2	0.76	0.006	0.03	1.5	0.05	0.2	<0.1	<0.05	7	<0.5	<0.2
SS10-266	Soil	4	13	0.25	36	0.036	2	1.24	0.007	0.04	4.1	0.06	0.7	<0.1	0.06	13	0.8	<0.2
SS10-267	Soil	5	8	0.04	27	0.005	2	2.11	0.007	0.03	2.2	0.16	0.2	<0.1	0.11	4	0.9	<0.2
SS10-268	Soil	7	13	0.22	54	0.013	3	2.14	0.015	0.09	8.2	0.21	0.2	0.1	0.13	9	1.2	<0.2
SS10-269	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
SS10-270	Soil			1.8	140.0	19.1	11	0.3	3.6	1.2	37	0.67	4.1	5.0	1.9	0.1	6	<0.1	0.7	0.2	14	0.03	0.174
SS10-271	Soil			2.5	35.8	11.3	20	0.2	3.7	4.1	46	1.18	9.1	1.8	7.7	0.2	10	<0.1	2.6	0.9	30	0.03	0.059
SS10-272	Soil			0.5	142.2	18.9	5	0.6	1.9	0.4	7	0.28	1.7	6.3	2.6	<0.1	6	0.2	0.3	0.2	4	0.05	0.214
SS10-273	Soil			4.5	28.1	12.6	23	1.2	7.1	4.7	91	2.10	12.8	1.7	5.1	0.1	7	0.1	1.7	0.5	53	0.07	0.093
SS10-274	Soil			2.9	14.9	7.6	25	0.6	4.6	3.0	139	2.70	9.5	0.4	4.9	0.2	5	<0.1	1.9	0.3	74	0.02	0.044
SS10-275	Soil			1.9	23.1	7.8	9	0.8	3.7	2.1	52	1.24	2.2	1.0	1.7	0.3	3	0.1	0.6	0.2	31	0.04	0.057
SS10-276	Soil			1.7	5.0	2.2	12	<0.1	1.9	1.4	51	0.94	3.9	0.2	4.5	<0.1	5	<0.1	0.8	0.1	37	0.03	0.020
SS10-277	Soil			12.9	24.8	23.1	20	1.4	3.6	3.1	547	1.46	9.6	1.9	1.8	<0.1	10	0.2	1.5	0.5	43	0.05	0.110
SS10-278	Soil			0.9	4.9	2.2	23	0.1	1.6	0.6	48	0.66	0.9	0.2	2.5	<0.1	5	<0.1	0.2	<0.1	19	0.05	0.041
SS10-279	Soil			8.9	26.2	11.6	14	0.3	2.6	3.2	482	1.64	8.9	1.2	<0.5	<0.1	9	0.2	1.7	0.3	46	0.04	0.104
SS10-280	Soil			1.9	5.5	2.8	11	0.1	1.7	1.2	80	0.82	2.7	0.2	1.5	<0.1	5	<0.1	1.4	0.1	28	0.04	0.015
SS10-281	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-282	Soil			3.1	7.5	6.5	15	0.3	1.9	1.4	87	0.74	5.2	0.2	3.1	<0.1	7	<0.1	1.8	0.3	26	0.02	0.023
SS10-283	Soil			4.1	12.0	19.9	13	0.3	3.0	2.3	287	0.92	7.5	0.9	3.8	0.1	8	0.1	1.9	0.6	39	0.03	0.054
SS10-284	Soil			2.7	13.2	3.3	22	0.4	5.9	3.5	132	1.42	1.1	0.6	3.4	0.3	6	0.2	0.4	0.1	34	0.04	0.046
SS10-285	Soil			2.5	10.2	4.8	13	0.5	1.6	1.0	62	0.48	2.8	0.5	2.8	0.1	6	<0.1	1.0	0.2	13	0.03	0.058
SS10-286	Soil			29.9	211.0	24.1	53	1.8	6.7	6.0	282	6.95	73.0	1.4	12.1	0.3	39	0.4	10.6	12.5	63	0.03	0.096
SS10-287	Soil			9.8	67.3	23.1	19	2.6	4.2	2.2	202	2.77	13.0	3.7	2.5	0.4	6	0.3	1.5	0.4	32	0.04	0.145
SS10-288	Soil			6.2	22.5	7.0	16	0.6	3.9	3.0	72	1.14	5.6	1.1	2.8	<0.1	22	0.2	1.6	0.4	30	0.03	0.075
SS10-289	Soil			4.6	27.9	7.2	14	0.3	2.3	1.9	95	0.89	10.2	1.1	3.2	0.1	14	<0.1	3.6	0.4	19	0.02	0.069
SS10-290	Soil			20.6	109.7	9.5	9	1.8	2.5	1.8	34	1.05	7.0	3.9	4.2	0.4	6	<0.1	1.5	0.4	15	0.03	0.147
SS10-291	Soil			8.1	82.7	11.5	31	0.3	7.9	5.7	172	2.60	7.8	2.6	6.3	0.8	8	0.2	1.5	0.5	59	0.07	0.086
SS10-292	Soil			13.9	92.8	6.4	28	0.4	3.8	2.9	187	1.73	7.0	1.5	3.6	1.1	6	0.2	1.0	0.3	26	0.03	0.104
SS10-293	Soil			8.5	74.3	16.8	38	0.8	6.5	4.5	166	3.14	19.5	1.1	5.4	0.3	102	<0.1	5.6	0.6	50	0.06	0.058
SS10-294	Soil			10.6	77.4	3.3	15	0.2	4.0	7.7	292	1.60	13.1	1.5	8.3	0.4	6	0.1	0.6	0.4	26	0.04	0.108
SS10-295	Soil			5.0	12.2	2.6	7	0.1	2.5	2.0	23	1.81	1.1	0.4	3.6	0.3	4	<0.1	0.7	0.2	54	0.02	0.021
SS10-296	Soil			16.4	93.4	14.6	20	0.7	4.3	2.9	113	1.55	8.5	2.0	2.4	0.2	8	0.1	2.0	0.4	29	0.04	0.093
SS10-297	Soil			5.3	10.8	5.9	13	0.2	1.8	1.6	24	0.62	2.9	0.5	7.8	<0.1	26	<0.1	0.8	0.6	25	0.02	0.028
SS10-298	Soil			11.9	62.2	24.8	59	0.3	6.8	6.2	333	4.08	17.5	1.3	1.4	0.2	13	0.3	5.1	0.5	49	0.03	0.108
SS10-299	Soil			13.0	49.2	13.0	31	0.6	4.8	5.7	68	1.65	14.8	1.5	2.4	0.2	14	0.1	5.2	1.1	47	0.03	0.079

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
SS10-270	Soil	9	13	0.08	37	0.011	2	3.03	0.013	0.03	1.7	0.25	0.3	<0.1	0.10	5	1.7	<0.2
SS10-271	Soil	6	13	0.11	28	0.012	<1	1.67	0.006	0.02	3.0	0.08	0.3	<0.1	0.06	8	0.6	<0.2
SS10-272	Soil	5	7	0.01	43	0.007	<1	1.85	0.014	0.02	0.4	0.26	0.2	<0.1	0.18	3	1.3	<0.2
SS10-273	Soil	5	12	0.25	35	0.036	1	1.70	0.009	0.07	1.1	0.16	0.6	<0.1	0.08	11	0.8	<0.2
SS10-274	Soil	4	10	0.15	29	0.009	<1	1.58	0.007	0.02	0.4	0.06	1.2	<0.1	<0.05	10	<0.5	<0.2
SS10-275	Soil	4	11	0.14	17	0.016	<1	0.72	0.006	0.03	0.3	0.06	0.4	<0.1	0.06	4	<0.5	<0.2
SS10-276	Soil	4	4	0.02	19	0.006	1	0.43	0.004	0.03	0.1	0.04	0.5	<0.1	<0.05	6	<0.5	<0.2
SS10-277	Soil	6	6	0.04	51	0.012	1	1.15	0.005	0.04	1.6	0.15	0.3	<0.1	0.09	6	<0.5	<0.2
SS10-278	Soil	5	9	0.03	26	0.003	3	0.32	0.008	0.05	<0.1	0.05	0.2	0.2	<0.05	2	<0.5	<0.2
SS10-279	Soil	4	6	0.04	43	0.010	<1	0.91	0.005	0.04	0.8	0.09	0.3	<0.1	0.10	4	0.5	<0.2
SS10-280	Soil	4	5	0.02	22	0.007	2	0.34	0.004	0.03	0.1	0.03	0.3	0.1	<0.05	4	<0.5	<0.2
SS10-281	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-282	Soil	4	4	0.03	30	0.008	1	0.49	0.006	0.03	0.3	0.03	0.4	0.2	<0.05	5	<0.5	<0.2
SS10-283	Soil	5	7	0.05	37	0.039	1	0.86	0.005	0.04	0.5	0.05	0.3	0.2	<0.05	7	<0.5	<0.2
SS10-284	Soil	5	18	0.31	56	0.028	1	0.67	0.011	0.11	0.2	0.04	0.9	0.2	<0.05	5	<0.5	<0.2
SS10-285	Soil	7	5	0.03	30	0.004	2	0.88	0.004	0.06	0.9	0.05	0.2	0.3	<0.05	6	<0.5	<0.2
SS10-286	Soil	5	17	0.23	75	0.015	2	2.07	0.006	0.03	1.1	0.14	1.0	0.1	0.07	11	1.2	3.6
SS10-287	Soil	7	13	0.08	35	0.006	1	2.77	0.006	0.03	1.2	0.29	0.3	<0.1	0.13	8	1.3	<0.2
SS10-288	Soil	5	9	0.18	57	0.011	<1	1.27	0.005	0.05	1.3	0.06	0.3	0.1	0.07	7	<0.5	<0.2
SS10-289	Soil	7	6	0.06	36	0.006	2	0.87	0.004	0.05	0.9	0.04	0.3	0.2	0.07	5	<0.5	<0.2
SS10-290	Soil	6	9	0.04	34	0.003	<1	2.19	0.006	0.03	6.3	0.18	0.2	<0.1	0.10	5	1.2	<0.2
SS10-291	Soil	7	22	0.50	29	0.036	1	2.15	0.006	0.07	17.0	0.09	1.5	<0.1	0.09	9	1.1	<0.2
SS10-292	Soil	9	6	0.05	45	0.003	2	1.72	0.006	0.06	0.8	0.06	0.9	0.2	0.06	5	0.6	<0.2
SS10-293	Soil	9	11	0.31	87	0.032	2	1.73	0.007	0.06	1.4	0.06	1.0	0.1	<0.05	13	0.5	<0.2
SS10-294	Soil	15	8	0.09	51	0.004	1	1.43	0.006	0.06	4.0	0.05	0.4	0.2	0.08	6	1.1	<0.2
SS10-295	Soil	5	18	0.04	17	0.015	3	0.53	0.005	0.03	0.4	0.02	0.4	0.1	<0.05	6	<0.5	<0.2
SS10-296	Soil	6	12	0.14	43	0.014	1	3.00	0.007	0.04	6.2	0.13	0.3	<0.1	0.08	8	1.1	<0.2
SS10-297	Soil	6	6	0.07	42	0.010	1	1.28	0.005	0.03	0.4	0.03	0.2	0.2	<0.05	10	<0.5	<0.2
SS10-298	Soil	5	13	0.21	47	0.009	2	2.30	0.005	0.05	1.7	0.10	0.6	0.2	0.06	10	0.8	<0.2
SS10-299	Soil	7	12	0.10	48	0.013	2	2.30	0.007	0.04	32.4	0.07	0.5	0.2	0.20	12	1.1	0.3

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-300	Soil	11.5	27.7	14.5	26	0.4	4.6	4.2	177	1.56	8.3	1.0	4.0	<0.1	15	0.2	2.5	0.5	39	0.03	0.086
SS10-301	Soil	79.1	225.8	40.6	54	0.6	6.6	9.0	257	2.67	10.9	1.9	4.8	0.4	6	0.3	2.1	0.6	45	0.03	0.072
SS10-302	Soil	7.9	43.3	13.9	26	0.4	5.1	4.7	259	1.99	12.6	2.3	0.6	0.7	7	0.1	3.9	0.4	37	0.04	0.081
SS10-303	Soil	10.5	1935	883.2	23	1.3	3.4	1.3	37	1.19	6.1	27.2	7.7	5.4	9	0.7	1.2	0.5	10	0.12	0.265
SS10-304	Soil	10.3	33.7	9.8	29	0.3	5.7	5.2	135	1.95	12.1	0.8	2.1	0.2	15	<0.1	2.8	0.6	63	0.03	0.050
SS10-305	Soil	44.1	140.4	65.1	53	1.4	5.4	7.7	275	2.21	27.7	3.9	4.9	0.2	10	0.3	4.7	0.8	41	0.04	0.167
SS10-306	Soil	8.9	19.4	11.2	13	0.2	3.1	2.6	382	0.85	2.5	1.0	9.9	0.1	13	0.1	1.0	0.4	30	0.04	0.090
SS10-307	Soil	24.3	282.2	27.7	26	1.0	4.4	3.9	133	1.55	18.4	3.5	5.1	0.4	6	0.4	3.9	0.5	32	0.05	0.095
SS10-308	Soil	43.0	85.8	28.2	19	0.1	5.1	2.3	72	1.16	7.0	2.2	1.6	<0.1	15	0.1	1.6	0.7	31	0.05	0.125
SS10-309	Soil	7.2	327.9	49.4	124	0.8	5.2	3.0	62	1.80	52.1	2.5	7.6	3.1	6	0.5	17.9	0.6	35	0.06	0.076
SS10-310	Soil	26.4	66.0	22.7	20	0.7	4.3	5.1	267	1.74	12.3	2.5	4.2	0.1	13	0.2	2.6	0.6	50	0.07	0.116
SS10-311	Soil	284.7	412.2	207.3	194	0.3	11.8	56.7	3078	7.29	151.6	16.3	7.7	1.3	24	1.1	25.0	1.9	70	0.27	0.195
SS10-312	Soil	9.5	63.7	27.8	36	0.5	5.2	6.1	218	1.91	21.3	1.1	4.0	0.2	7	0.2	5.1	0.6	46	0.03	0.074
SS10-313	Soil	67.6	165.6	87.9	89	0.7	11.6	6.5	163	2.70	35.0	3.3	7.1	0.2	18	0.3	15.7	1.4	48	0.15	0.083
SS10-314	Soil	9.1	23.4	29.1	31	0.4	3.0	5.6	601	1.95	37.5	0.7	2.5	<0.1	8	0.2	4.7	0.5	48	0.03	0.078
SS10-315	Soil	36.1	204.8	76.2	79	0.4	4.5	3.1	72	1.45	27.8	4.1	7.4	0.2	19	0.1	9.0	1.2	31	0.21	0.146
SS10-316	Soil	10.6	175.5	35.0	64	0.3	7.5	5.9	157	2.53	74.9	1.3	6.9	0.5	5	0.1	25.0	1.8	36	0.05	0.100
SS10-317	Soil	56.4	214.3	50.9	119	0.3	6.3	4.4	111	1.91	34.9	2.5	3.9	1.2	8	0.3	12.1	0.7	33	0.07	0.122
SS10-318	Soil	7.6	42.4	9.9	24	0.8	3.7	2.5	156	1.98	30.0	1.6	1.1	3.3	4	0.2	3.1	0.2	37	0.02	0.120
SS10-319	Soil	69.1	237.4	86.2	126	0.3	8.2	8.1	205	3.29	70.4	4.3	8.1	1.0	9	0.1	21.5	1.0	41	0.04	0.121
SS10-320	Soil	9.7	81.2	12.9	30	0.9	4.6	6.0	85	1.37	32.0	1.2	8.3	0.2	9	0.2	6.8	0.7	34	0.02	0.110
SS10-321	Soil	39.0	126.2	32.8	84	0.3	3.7	4.7	129	1.51	24.1	1.2	7.3	0.2	11	<0.1	25.1	0.7	25	0.11	0.081
SS10-322	Soil	2.1	924.7	172.4	76	1.1	6.4	4.3	52	0.65	36.3	20.2	17.9	2.8	15	0.5	6.2	0.5	14	0.26	0.135
SS10-323	Soil	187.6	100.6	566.3	72	1.1	5.5	45.6	9385	4.93	102.0	2.8	4.3	0.3	18	0.5	26.8	2.0	71	0.13	0.241
SS10-324	Soil	11.4	101.6	40.1	59	1.4	4.5	6.5	88	3.42	51.3	1.1	7.4	0.4	7	0.6	19.1	1.1	39	0.03	0.056
SS10-325	Soil	33.9	95.4	51.8	85	0.6	5.8	5.8	1102	2.41	52.5	1.5	6.0	0.2	9	0.3	19.4	1.6	43	0.04	0.141
SS10-326	Soil	6.3	27.4	19.2	25	1.2	4.9	3.6	107	1.64	12.6	0.9	3.9	0.2	9	<0.1	4.5	0.7	41	0.04	0.063
SS10-327	Soil	144.2	731.1	201.5	113	40.9	6.0	40.8	5716	7.79	773.6	6.5	78.9	0.9	13	1.1	858.0	28.9	31	0.09	0.240
SS10-328	Soil	9.0	68.8	15.1	14	0.3	2.4	1.7	55	0.53	6.5	1.3	11.1	<0.1	15	0.1	5.3	0.8	18	0.09	0.085
SS10-329	Soil	368.8	1290	225.7	168	1.7	8.0	36.4	2686	8.53	130.7	22.7	10.3	2.5	13	0.5	54.1	2.2	57	0.10	0.278

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
SS10-300	Soil	6	9	0.12	75	0.022	<1	1.08	0.006	0.06	3.0	0.06	0.6	0.1	0.17	7	<0.5	<0.2
SS10-301	Soil	9	14	0.25	50	0.012	3	1.75	0.007	0.06	4.6	0.07	0.9	0.1	0.14	9	0.9	<0.2
SS10-302	Soil	8	12	0.17	60	0.028	2	2.94	0.008	0.06	1.0	0.09	1.0	0.1	0.15	8	1.1	<0.2
SS10-303	Soil	47	13	0.07	56	0.018	2	5.01	0.008	0.03	1.8	0.25	3.5	<0.1	0.30	3	4.7	<0.2
SS10-304	Soil	6	11	0.15	47	0.040	2	1.01	0.010	0.07	2.2	0.05	0.9	0.1	0.10	9	1.0	<0.2
SS10-305	Soil	7	12	0.09	51	0.011	3	1.33	0.006	0.06	2.4	0.17	0.5	0.1	0.18	9	1.8	<0.2
SS10-306	Soil	4	10	0.09	84	0.036	1	0.72	0.008	0.04	0.6	0.05	0.5	0.2	0.11	5	0.5	0.2
SS10-307	Soil	7	13	0.19	62	0.018	2	2.10	0.010	0.05	1.9	0.11	0.8	0.2	0.12	8	0.9	0.3
SS10-308	Soil	7	12	0.16	69	0.009	<1	1.60	0.008	0.05	0.6	0.09	0.4	0.1	0.12	9	0.8	0.3
SS10-309	Soil	12	12	0.20	68	0.003	3	2.26	0.007	0.05	1.2	0.15	2.2	0.4	<0.05	8	1.3	<0.2
SS10-310	Soil	7	11	0.08	48	0.023	1	1.43	0.008	0.05	1.5	0.10	0.6	<0.1	0.10	10	1.1	<0.2
SS10-311	Soil	12	23	0.33	225	0.012	3	3.07	0.008	0.06	3.6	0.09	2.2	0.3	0.11	12	2.7	0.4
SS10-312	Soil	6	12	0.13	37	0.012	2	1.50	0.006	0.04	0.9	0.06	0.6	<0.1	0.10	8	0.7	<0.2
SS10-313	Soil	10	19	0.34	125	0.017	2	1.90	0.008	0.07	3.2	0.06	0.8	0.3	0.11	12	1.3	0.3
SS10-314	Soil	7	8	0.04	52	0.009	2	1.43	0.006	0.04	0.9	0.05	0.4	0.2	0.09	8	0.6	<0.2
SS10-315	Soil	8	12	0.18	105	0.007	4	1.76	0.007	0.07	1.7	0.05	0.5	0.4	0.11	8	1.1	<0.2
SS10-316	Soil	8	14	0.21	42	0.005	3	1.79	0.006	0.06	1.1	0.07	1.0	0.2	0.10	7	0.8	<0.2
SS10-317	Soil	9	13	0.19	84	0.004	3	1.99	0.007	0.06	2.4	0.05	1.3	0.4	0.10	7	0.9	0.2
SS10-318	Soil	16	11	0.05	44	0.003	3	2.28	0.011	0.04	1.5	0.10	2.5	0.2	0.10	6	<0.5	<0.2
SS10-319	Soil	9	15	0.29	90	0.006	5	2.46	0.005	0.09	2.3	0.07	1.2	0.5	0.08	9	1.3	0.2
SS10-320	Soil	7	11	0.08	45	0.006	2	1.54	0.006	0.05	1.7	0.06	0.5	0.1	0.12	7	0.7	0.5
SS10-321	Soil	9	7	0.22	70	0.005	5	0.99	0.005	0.08	2.9	0.05	0.6	0.3	0.08	6	0.5	0.2
SS10-322	Soil	39	12	0.16	512	0.002	4	1.78	0.005	0.07	0.6	0.35	4.9	0.5	0.10	4	2.0	0.2
SS10-323	Soil	6	11	0.12	117	0.023	3	1.41	0.008	0.10	1.5	0.08	0.8	0.9	0.16	10	0.9	<0.2
SS10-324	Soil	8	12	0.14	43	0.008	4	1.99	0.006	0.04	1.6	0.09	0.8	0.2	0.09	9	1.2	<0.2
SS10-325	Soil	8	12	0.20	66	0.010	4	1.40	0.005	0.10	2.3	0.07	0.5	0.2	0.09	8	0.7	<0.2
SS10-326	Soil	8	8	0.15	58	0.034	2	1.58	0.007	0.08	0.8	0.08	0.8	0.2	0.10	9	0.7	<0.2
SS10-327	Soil	7	11	0.24	116	0.007	4	0.90	0.007	0.09	2.0	2.16	1.7	0.6	0.38	5	2.5	0.7
SS10-328	Soil	7	6	0.06	64	0.012	2	0.88	0.008	0.07	1.4	0.06	0.3	0.3	0.12	6	<0.5	<0.2
SS10-329	Soil	16	21	0.24	144	0.014	4	3.31	0.006	0.07	2.8	0.21	2.9	0.5	0.23	8	6.3	<0.2

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-330	Soil	15.4	151.6	31.7	48	0.7	6.0	7.1	159	1.66	26.0	1.3	7.0	0.2	9	0.2	9.6	0.9	35	0.05	0.066
SS10-331	Soil	182.3	434.8	166.9	103	0.6	8.2	9.8	161	4.94	80.6	5.4	4.4	0.5	15	0.4	21.5	1.3	67	0.11	0.113
SS10-332	Soil	10.5	161.6	46.4	53	2.4	4.8	6.1	91	2.60	42.3	2.0	4.9	0.3	7	0.4	15.7	1.2	36	0.04	0.120
SS10-333	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-334	Soil	9.5	21.7	27.5	22	0.7	3.7	3.2	252	1.03	17.3	0.6	4.2	0.1	10	<0.1	7.4	1.3	35	0.07	0.045
SS10-335	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-336	Soil	7.0	34.0	26.8	26	0.7	2.9	3.5	131	0.92	15.2	0.7	8.8	<0.1	8	0.1	7.9	1.0	28	0.05	0.055
SS10-337	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-338	Soil	23.3	132.8	22.2	60	0.2	4.6	18.7	719	1.81	33.6	1.0	6.6	0.2	7	0.4	18.8	1.2	36	0.04	0.061
SS10-339	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-340	Soil	41.5	151.5	58.0	65	0.5	6.5	23.2	2074	2.76	41.5	1.5	9.5	0.3	10	0.7	15.5	1.4	53	0.05	0.113
SS10-341	Soil	28.0	221.4	6.8	29	0.3	6.8	6.0	138	3.04	18.4	2.2	17.7	1.8	10	0.2	3.6	0.7	83	0.11	0.069
SS10-342	Soil	215.8	175.6	240.8	58	0.7	5.9	442.3	>10000	3.05	18.2	1.4	7.1	0.5	14	1.8	17.1	1.3	30	0.07	0.150
SS10-343	Soil	25.3	138.1	9.1	20	0.2	4.9	6.5	161	1.97	10.9	1.2	3.5	0.5	11	0.2	2.4	0.5	59	0.14	0.067
SS10-344	Soil	32.5	136.7	72.7	42	2.3	5.6	22.3	4623	2.29	14.7	1.4	10.6	0.6	18	0.6	14.0	1.4	43	0.05	0.096
SS10-345	Soil	8.8	133.2	9.2	12	0.2	3.5	1.7	60	0.80	3.5	1.3	0.7	0.2	11	0.1	0.9	0.6	28	0.06	0.061
SS10-346	Soil	35.9	388.0	31.3	30	0.5	5.9	4.9	190	1.68	10.9	3.1	3.6	0.4	18	0.7	2.8	0.8	50	0.14	0.070
SS10-347	Soil	6.6	33.4	5.7	11	0.1	3.6	2.1	48	0.74	1.6	1.0	2.6	0.3	9	<0.1	0.8	0.4	28	0.04	0.051
SS10-348	Soil	21.8	1243	14.5	35	0.5	4.2	3.8	89	1.23	12.6	16.0	4.3	0.6	18	0.1	4.1	1.2	41	0.12	0.082
SS10-349	Soil	4.3	11.7	3.0	10	0.1	1.6	1.2	45	0.67	1.1	0.4	1.1	0.1	6	<0.1	0.6	0.2	32	0.04	0.035
SS10-350	Soil	23.9	46.0	7.0	22	<0.1	2.9	3.0	131	1.37	25.2	0.8	1.7	0.2	7	0.2	3.6	0.4	40	0.05	0.037
SS10-351	Soil	7.7	50.2	4.9	10	<0.1	2.0	1.4	29	0.60	1.7	0.4	1.2	0.2	8	0.1	0.7	0.2	26	0.04	0.028
SS10-352	Soil	7.0	26.5	5.1	15	0.5	3.2	3.5	149	0.93	5.4	0.8	1.6	<0.1	8	0.1	1.3	0.3	31	0.05	0.085
SS10-353	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-354	Soil	20.3	506.0	35.5	39	1.1	9.5	5.6	158	1.98	20.3	7.2	4.8	0.1	7	<0.1	7.5	0.3	55	0.05	0.137
SS10-355	Soil	48.7	243.2	13.0	20	<0.1	6.0	2.3	82	1.35	8.9	3.0	3.3	0.7	15	0.2	4.9	0.5	48	0.12	0.042
SS10-356	Soil	13.0	500.3	25.6	13	1.8	4.9	1.4	45	1.97	12.4	25.5	10.8	0.5	8	<0.1	2.4	1.0	30	0.05	0.175
SS10-357	Soil	145.6	1889	14.6	12	1.7	4.0	1.9	43	2.10	24.8	40.2	7.3	1.2	35	0.3	10.1	0.4	70	0.25	0.097
SS10-358	Soil	10.1	55.9	10.0	18	0.6	4.4	4.2	63	2.02	46.9	0.8	8.5	0.1	7	0.3	15.3	2.2	57	0.03	0.071
SS10-359	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
SS10-330	Soil	9	10	0.20	67	0.014	3	1.43	0.006	0.07	2.0	0.05	0.5	0.3	0.11	10	0.6	<0.2
SS10-331	Soil	9	18	0.24	176	0.013	2	2.32	0.008	0.07	1.7	0.10	0.9	0.3	0.17	11	2.0	<0.2
SS10-332	Soil	9	13	0.17	47	0.009	3	2.34	0.007	0.06	2.6	0.12	0.6	0.3	0.12	9	1.0	0.3
SS10-333	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-334	Soil	8	10	0.10	58	0.021	2	0.92	0.004	0.06	1.3	0.05	0.6	0.3	0.10	8	0.6	0.2
SS10-335	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-336	Soil	8	7	0.12	60	0.015	3	0.89	0.007	0.08	2.5	0.03	0.4	0.2	0.09	6	<0.5	<0.2
SS10-337	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-338	Soil	8	9	0.21	68	0.010	4	0.89	0.006	0.08	3.9	0.04	0.6	0.2	0.09	5	<0.5	<0.2
SS10-339	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-340	Soil	7	9	0.24	80	0.017	4	1.05	0.005	0.09	4.1	0.04	0.7	0.2	0.12	7	0.8	0.2
SS10-341	Soil	6	28	0.64	94	0.087	3	2.41	0.009	0.12	2.9	0.06	2.5	0.2	0.08	11	1.5	<0.2
SS10-342	Soil	5	11	0.13	717	0.026	3	0.96	0.008	0.11	3.0	0.09	0.7	5.7	0.14	6	1.2	0.2
SS10-343	Soil	7	11	0.36	38	0.094	2	1.49	0.008	0.07	1.3	0.05	1.4	0.1	0.07	13	0.7	<0.2
SS10-344	Soil	9	11	0.16	164	0.042	3	1.37	0.009	0.09	1.7	0.05	1.0	0.4	0.08	6	0.8	<0.2
SS10-345	Soil	5	12	0.26	61	0.043	1	1.02	0.008	0.06	1.9	0.04	0.6	0.1	0.06	8	<0.5	<0.2
SS10-346	Soil	13	18	0.36	159	0.032	2	1.33	0.010	0.09	0.9	0.08	1.2	0.2	0.05	9	0.7	<0.2
SS10-347	Soil	5	10	0.17	46	0.053	2	0.71	0.007	0.06	1.0	0.03	0.5	0.1	0.07	6	<0.5	<0.2
SS10-348	Soil	14	12	0.13	92	0.008	2	2.16	0.009	0.05	2.0	0.03	1.0	0.2	<0.05	10	0.8	0.3
SS10-349	Soil	3	10	0.08	27	0.040	1	0.46	0.006	0.04	0.1	0.02	0.4	0.1	<0.05	4	<0.5	<0.2
SS10-350	Soil	7	8	0.06	46	0.011	2	0.75	0.006	0.04	2.7	0.04	0.6	0.1	0.09	6	<0.5	<0.2
SS10-351	Soil	4	8	0.06	36	0.033	<1	0.43	0.005	0.06	0.2	0.01	0.4	0.1	0.06	4	<0.5	<0.2
SS10-352	Soil	4	11	0.10	40	0.023	1	0.79	0.010	0.04	1.4	0.04	0.5	<0.1	0.15	3	<0.5	<0.2
SS10-353	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-354	Soil	22	17	0.44	42	0.018	3	1.93	0.014	0.08	0.6	0.13	0.9	0.2	0.14	9	2.2	<0.2
SS10-355	Soil	7	17	0.36	77	0.026	2	1.44	0.011	0.04	1.5	0.12	1.7	0.2	0.07	10	0.9	<0.2
SS10-356	Soil	13	20	0.14	42	0.021	2	3.39	0.018	0.04	1.4	0.42	1.4	0.1	0.19	7	5.8	<0.2
SS10-357	Soil	30	20	0.22	141	0.035	2	1.33	0.013	0.04	4.4	0.53	3.7	0.2	0.19	8	4.1	<0.2
SS10-358	Soil	7	12	0.16	33	0.020	2	1.59	0.007	0.04	2.3	0.06	0.6	0.2	0.06	12	0.6	<0.2
SS10-359	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
SS10-360	Soil	7.5	48.4	4.1	10	0.4	2.4	5.6	62	1.43	12.5	0.5	3.6	<0.1	5	<0.1	6.1	1.1	64	0.03	0.031
SS10-361	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-362	Soil	48.0	63.2	8.0	12	1.4	2.3	1.3	69	1.97	11.6	0.8	8.4	0.5	6	0.1	8.1	1.4	66	0.03	0.050
SS10-363	Soil	13.1	32.2	2.9	8	0.3	2.3	2.5	44	1.27	1.3	0.3	5.0	0.1	7	<0.1	0.8	0.4	38	0.03	0.026
SS10-364	Soil	18.7	27.0	7.3	10	1.6	2.5	1.9	36	0.91	3.1	0.6	5.0	0.2	12	<0.1	1.6	0.7	38	0.04	0.056
SS10-365	Soil	43.8	136.0	8.8	13	1.0	4.0	2.2	50	1.55	4.6	1.2	4.9	0.3	8	0.2	0.6	0.7	64	0.05	0.055
SS10-366	Soil	8.1	71.8	8.0	10	2.9	2.5	1.4	33	0.75	9.3	1.2	4.1	<0.1	10	<0.1	2.1	0.7	26	0.04	0.073
SS10-367	Soil	19.9	131.4	12.4	15	0.6	4.3	2.7	75	1.56	11.2	1.1	10.4	<0.1	8	0.1	1.2	1.2	46	0.04	0.073
SS10-368	Soil	20.5	125.8	9.6	13	0.7	2.5	2.9	41	1.25	39.5	0.8	9.1	<0.1	8	0.2	17.5	1.6	37	0.03	0.062
SS10-369	Soil	131.9	47.5	9.1	9	0.5	2.4	1.3	35	0.86	2.4	0.9	7.0	0.1	7	<0.1	0.6	0.8	34	0.04	0.070
SS10-370	Soil	9.7	55.4	8.0	12	0.9	2.2	3.0	44	1.40	29.8	0.5	12.7	<0.1	7	0.2	12.9	1.5	32	0.03	0.035
SS10-371	Soil	6.2	56.3	5.3	14	1.0	5.1	3.0	81	2.13	2.3	1.5	1.7	1.6	8	<0.1	0.9	0.5	72	0.13	0.106
SS10-372	Soil	10.5	49.9	8.9	12	1.0	2.1	1.6	27	0.86	23.7	0.7	2.6	<0.1	9	0.2	6.6	1.0	29	0.03	0.046
SS10-373	Soil	29.0	18.8	3.3	9	0.2	2.9	2.2	41	1.75	1.1	0.3	7.6	0.3	7	<0.1	0.7	0.3	53	0.04	0.022
SS10-374	Soil	20.9	159.2	19.2	54	0.5	4.9	6.8	72	2.28	54.6	0.8	7.0	0.1	6	0.1	19.0	0.9	52	0.02	0.040
SS10-375	Soil	8.0	32.0	11.7	17	0.5	4.7	2.6	100	1.51	6.5	0.9	6.1	0.2	8	<0.1	1.5	0.6	52	0.05	0.051
SS10-376	Soil	32.6	46.4	13.2	6	0.8	1.8	0.8	24	0.40	5.2	1.1	12.8	0.1	8	<0.1	1.6	0.9	24	0.03	0.044
SS10-377	Soil	11.2	192.5	28.3	18	0.3	4.1	1.7	44	0.91	3.9	2.9	1.2	0.1	10	<0.1	1.4	1.0	20	0.04	0.110
SS10-378	Soil	37.5	174.0	16.8	23	0.6	5.4	5.8	62	1.98	12.1	1.1	11.3	0.2	15	0.5	2.6	3.6	72	0.10	0.061
SS10-379	Soil	2.0	22.7	3.2	10	0.6	1.7	0.4	47	0.18	0.6	0.6	<0.5	0.2	10	0.1	0.5	0.2	3	0.07	0.128
SS10-380	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-381	Soil	4.4	16.3	5.6	8	0.3	2.1	1.0	33	0.71	1.1	0.4	7.1	0.4	8	<0.1	0.6	0.5	26	0.02	0.037
SS10-382	Soil	506.0	3164	108.5	70	1.5	10.0	26.1	1075	10.12	188.4	23.6	12.2	1.3	23	0.2	80.8	3.0	68	0.12	0.180
SS10-383	Soil	19.5	45.7	28.2	18	1.1	3.2	3.5	680	1.62	9.6	1.9	3.2	0.4	14	<0.1	2.9	0.8	70	0.05	0.092
SS10-384	Soil	155.3	1140	61.2	42	0.5	5.7	3.0	100	2.27	71.4	5.0	4.3	1.1	26	0.4	25.4	1.7	64	0.23	0.071
SS10-385	Soil	834.2	172.9	11.0	62	0.4	6.2	11.3	1373	3.95	459.3	1.6	16.4	0.6	7	0.4	30.0	1.3	52	0.04	0.259
SS10-386	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-387	Soil	14.5	30.1	16.2	27	0.6	5.1	2.8	106	1.35	14.5	1.3	8.1	0.1	11	0.1	2.8	0.9	41	0.04	0.108
SS10-388	Soil	17.1	114.8	9.0	23	0.8	8.1	5.5	154	2.84	6.0	2.8	3.4	1.8	6	<0.1	1.3	0.4	73	0.12	0.100
SS10-389	Soil	1.8	5.6	4.9	8	0.3	1.1	0.7	31	0.20	3.3	0.3	18.1	<0.1	10	<0.1	1.0	0.5	8	0.03	0.029

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SS10-360	Soil	5	9	0.07	26	0.022	2	0.55	0.005	0.04	0.8	0.03	0.5	0.2	0.06	10	<0.5	<0.2
SS10-361	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-362	Soil	6	9	0.17	30	0.059	1	0.94	0.005	0.03	1.9	0.04	0.7	0.1	<0.05	12	<0.5	<0.2
SS10-363	Soil	7	14	0.04	19	0.007	2	0.63	0.006	0.04	0.5	0.01	0.6	0.1	<0.05	8	<0.5	<0.2
SS10-364	Soil	5	9	0.12	37	0.064	1	0.91	0.008	0.05	2.4	0.05	0.6	0.1	<0.05	9	<0.5	<0.2
SS10-365	Soil	4	16	0.21	40	0.090	1	1.25	0.007	0.03	3.3	0.07	1.1	0.1	0.09	13	0.7	<0.2
SS10-366	Soil	8	9	0.07	51	0.021	2	1.26	0.008	0.05	1.4	0.07	0.4	0.1	0.09	7	<0.5	<0.2
SS10-367	Soil	7	15	0.21	39	0.026	1	1.28	0.006	0.05	>100	0.06	0.5	0.2	0.07	11	<0.5	0.2
SS10-368	Soil	7	8	0.08	45	0.007	2	1.21	0.005	0.03	3.1	0.06	0.3	0.2	0.07	8	<0.5	<0.2
SS10-369	Soil	5	9	0.10	35	0.058	<1	0.79	0.007	0.04	1.5	0.04	0.6	0.2	0.08	8	<0.5	<0.2
SS10-370	Soil	5	6	0.08	38	0.012	2	1.05	0.004	0.03	1.6	0.05	0.4	0.2	<0.05	7	<0.5	<0.2
SS10-371	Soil	4	23	0.39	66	0.128	1	1.05	0.008	0.09	4.6	0.06	2.1	0.2	0.17	7	0.9	0.2
SS10-372	Soil	6	7	0.04	45	0.012	<1	1.04	0.005	0.03	1.5	0.05	0.3	0.2	0.09	8	<0.5	<0.2
SS10-373	Soil	4	16	0.03	20	0.043	<1	0.27	0.004	0.03	2.2	0.02	0.6	0.2	0.07	3	<0.5	<0.2
SS10-374	Soil	6	11	0.14	30	0.009	1	1.40	0.004	0.03	1.9	0.04	0.7	<0.1	0.10	8	0.6	<0.2
SS10-375	Soil	7	15	0.16	42	0.055	1	1.68	0.008	0.05	3.8	0.06	0.9	0.2	0.08	11	0.5	<0.2
SS10-376	Soil	6	7	0.07	35	0.043	1	1.01	0.005	0.03	1.1	0.04	0.4	0.1	0.10	9	<0.5	<0.2
SS10-377	Soil	10	14	0.13	56	0.010	2	1.69	0.006	0.08	0.6	0.10	0.2	0.2	0.12	9	1.1	0.2
SS10-378	Soil	6	16	0.18	80	0.053	<1	1.34	0.006	0.04	3.9	0.04	0.9	0.2	0.07	12	0.8	<0.2
SS10-379	Soil	5	4	0.03	34	0.008	2	0.34	0.008	0.09	0.3	0.08	0.8	0.1	0.11	1	0.6	<0.2
SS10-380	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-381	Soil	5	9	0.05	28	0.044	1	0.40	0.006	0.05	2.8	0.03	0.5	0.1	0.10	3	<0.5	<0.2
SS10-382	Soil	19	30	0.36	116	0.050	5	3.57	0.014	0.08	5.2	0.31	2.2	0.3	0.07	12	4.6	<0.2
SS10-383	Soil	7	11	0.10	75	0.087	2	0.92	0.006	0.06	1.3	0.05	0.9	0.2	0.12	9	0.6	<0.2
SS10-384	Soil	10	16	0.32	95	0.084	2	1.16	0.006	0.06	1.3	0.16	2.1	<0.1	0.05	13	1.8	<0.2
SS10-385	Soil	10	15	0.07	49	0.008	1	2.19	0.006	0.05	3.8	0.11	0.9	0.3	0.13	10	1.9	0.3
SS10-386	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-387	Soil	9	16	0.14	49	0.011	2	2.20	0.005	0.06	4.1	0.11	0.4	0.3	0.07	10	1.1	<0.2
SS10-388	Soil	7	27	0.77	43	0.100	2	2.47	0.005	0.08	0.7	0.08	2.6	0.1	0.08	11	1.1	<0.2
SS10-389	Soil	9	3	0.03	27	0.008	2	0.56	0.004	0.06	1.8	0.02	0.2	0.3	<0.05	4	<0.5	<0.2

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-390	Soil	24.7	144.6	8.0	24	0.5	5.4	5.4	133	2.09	17.8	1.5	3.2	0.3	8	0.2	1.9	0.8	57	0.05	0.100
SS10-391	Soil	6.0	21.3	12.4	17	0.3	2.7	3.1	85	0.84	13.9	0.7	23.8	<0.1	10	<0.1	3.9	1.5	33	0.04	0.048
SS10-392	Soil	31.8	76.7	8.6	16	1.0	4.7	6.3	53	1.94	10.0	1.1	2.7	0.2	7	0.2	1.9	0.8	59	0.04	0.064
SS10-393	Soil	13.3	33.7	6.9	8	0.6	2.0	2.4	43	0.95	2.5	0.6	6.6	0.3	10	<0.1	1.2	0.5	45	0.05	0.031
SS10-394	Soil	16.4	161.1	10.2	12	1.1	4.5	3.2	77	1.81	5.1	1.9	5.2	0.6	9	0.2	0.5	0.9	74	0.07	0.090
SS10-395	Soil	17.7	34.0	10.3	37	0.5	7.1	8.1	316	4.73	14.4	1.1	<0.5	0.9	20	0.1	1.2	0.5	121	0.19	0.087
SS10-396	Soil	8.1	42.6	16.3	10	0.8	3.6	2.4	61	1.01	5.3	1.3	3.3	0.3	9	<0.1	1.9	0.9	48	0.04	0.051
SS10-397	Soil	188.3	122.9	14.0	23	0.3	4.0	6.6	147	5.11	18.7	1.0	2.6	0.5	10	<0.1	2.3	10.8	61	0.04	0.130
SS10-398	Soil	11.4	120.9	11.9	22	0.6	6.7	3.5	90	1.84	10.2	1.4	6.7	0.2	10	0.1	2.7	0.9	46	0.05	0.062
SS10-399	Soil	12.9	75.6	10.1	23	0.3	6.4	7.7	168	3.12	13.2	1.8	2.7	0.2	10	0.5	1.9	0.9	66	0.05	0.087
SS10-400	Soil	4.5	10.9	2.1	5	0.3	1.3	1.3	33	1.05	<0.5	0.4	2.7	0.1	6	<0.1	0.4	0.2	33	0.05	0.023
SS10-401	Soil	26.7	40.2	12.3	22	0.3	5.0	5.0	591	1.84	5.3	2.6	2.2	0.5	43	0.1	0.9	0.7	62	0.07	0.100
SS10-402	Soil	10.0	37.6	7.7	11	0.3	3.4	2.8	60	1.47	0.6	1.1	4.3	0.9	11	0.1	0.4	0.6	57	0.09	0.070
SS10-403	Soil	16.3	64.5	15.2	28	0.4	7.2	6.1	637	2.85	8.4	1.2	9.1	0.7	12	0.1	0.6	0.9	77	0.07	0.200
SS10-404	Soil	17.6	35.9	11.1	28	0.2	8.2	5.6	265	2.36	6.5	1.5	2.5	0.8	10	0.1	1.3	0.9	72	0.08	0.085
SS10-405	Soil	12.0	229.8	7.6	25	0.4	8.9	6.6	210	2.27	4.6	2.3	9.5	0.7	15	<0.1	1.1	2.0	67	0.09	0.107
SS10-406	Soil	7.6	12.9	3.7	14	0.3	3.4	2.3	98	0.99	<0.5	0.9	8.4	0.2	12	0.1	0.5	0.1	25	0.08	0.090
SS10-407	Soil	29.1	80.9	12.7	27	0.3	6.7	9.1	160	2.18	15.4	1.5	4.6	0.1	11	0.1	2.7	0.8	51	0.03	0.078
SS10-408	Soil	2.8	10.8	9.0	13	0.3	4.0	2.3	98	0.83	1.3	1.1	5.7	0.4	9	0.1	0.6	0.5	25	0.05	0.066
SS10-409	Soil	6.1	20.0	9.6	8	0.3	2.7	1.8	78	0.91	4.0	0.9	2.9	0.1	11	<0.1	0.4	0.5	39	0.03	0.056
SS10-410	Soil	7.3	28.5	10.2	15	0.8	3.4	3.1	98	1.28	7.6	1.0	5.1	0.2	8	<0.1	2.8	0.7	47	0.04	0.066
SS10-411	Soil	10.8	44.9	18.8	18	0.5	5.3	3.8	170	1.86	13.5	1.3	2.1	0.1	12	0.1	1.8	0.9	59	0.03	0.069
SS10-412	Soil	15.5	135.7	11.1	21	0.6	3.9	4.3	250	1.39	34.1	2.6	8.1	0.2	12	0.3	4.0	0.6	28	0.06	0.136
SS10-413	Soil	13.9	46.1	8.4	18	0.2	5.1	5.1	79	2.03	2.7	1.0	9.1	0.7	8	0.1	0.7	0.8	65	0.05	0.053
SS10-414	Soil	7.0	56.4	24.1	30	0.6	4.4	3.0	76	1.13	12.1	1.7	4.6	<0.1	8	0.3	3.4	0.5	27	0.04	0.116
SS10-415	Soil	4.1	10.6	7.9	9	0.1	1.9	1.0	70	0.51	5.4	0.4	6.5	<0.1	10	<0.1	0.3	0.6	21	0.05	0.054
SS10-417	Soil	7.3	28.9	9.4	13	0.2	3.0	3.4	174	1.14	8.3	0.6	2.4	0.1	12	0.1	0.9	0.7	48	0.03	0.048
SS10-418	Soil	2.5	8.3	9.0	10	2.0	1.4	0.6	37	0.31	5.2	0.5	5.9	0.3	10	<0.1	1.2	0.5	11	0.04	0.062
SS10-419	Soil	3.3	84.8	10.4	18	1.3	8.0	3.6	110	1.22	4.3	2.5	1.6	<0.1	9	0.2	0.4	0.3	18	0.06	0.197
SS10-420	Soil	5.9	45.6	21.3	25	1.0	2.2	2.8	84	1.69	24.7	0.6	15.0	0.9	7	0.1	8.3	0.7	23	0.03	0.052

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Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
SS10-390	Soil	9	19	0.26	50	0.024	2	2.66	0.008	0.06	3.3	0.08	1.1	0.2	0.08	9	1.1	<0.2
SS10-391	Soil	9	8	0.10	32	0.019	3	1.00	0.004	0.07	2.2	0.02	0.4	0.4	<0.05	9	0.5	<0.2
SS10-392	Soil	6	14	0.14	40	0.034	<1	1.60	0.005	0.04	2.3	0.04	0.8	0.1	<0.05	12	1.2	0.2
SS10-393	Soil	5	11	0.09	45	0.067	2	0.79	0.006	0.04	0.4	0.02	0.7	0.2	<0.05	8	<0.5	<0.2
SS10-394	Soil	5	19	0.25	44	0.118	1	1.33	0.007	0.06	6.7	0.06	1.2	0.1	0.05	13	0.9	0.2
SS10-395	Soil	8	19	0.67	56	0.236	2	2.21	0.030	0.18	0.6	0.06	2.6	0.2	0.10	16	1.2	<0.2
SS10-396	Soil	6	11	0.14	40	0.095	<1	1.27	0.005	0.04	3.1	0.05	0.7	0.1	<0.05	9	0.7	<0.2
SS10-397	Soil	6	15	0.10	47	0.062	3	0.89	0.008	0.09	1.2	0.03	1.0	0.3	0.10	13	5.8	4.1
SS10-398	Soil	8	17	0.23	49	0.030	2	1.56	0.008	0.09	2.7	0.05	0.8	0.2	0.09	11	<0.5	0.2
SS10-399	Soil	7	23	0.21	53	0.035	2	2.37	0.008	0.06	1.3	0.08	0.9	0.2	0.08	11	1.2	<0.2
SS10-400	Soil	4	11	0.02	22	0.026	1	0.28	0.006	0.03	0.3	0.02	0.3	0.2	<0.05	2	<0.5	<0.2
SS10-401	Soil	5	16	0.26	117	0.093	1	1.05	0.006	0.06	2.2	0.05	1.2	0.3	0.09	10	0.6	<0.2
SS10-402	Soil	3	18	0.23	53	0.111	<1	0.68	0.009	0.09	2.8	0.05	1.2	0.1	0.07	6	0.5	<0.2
SS10-403	Soil	6	20	0.47	74	0.119	2	1.95	0.008	0.10	0.8	0.06	1.9	0.4	0.08	17	0.9	0.3
SS10-404	Soil	6	21	0.32	61	0.115	<1	1.74	0.008	0.10	3.1	0.07	1.5	0.2	0.11	13	0.8	<0.2
SS10-405	Soil	6	23	0.57	160	0.076	2	2.03	0.006	0.09	0.4	0.07	1.9	0.3	0.07	13	0.9	0.6
SS10-406	Soil	8	14	0.13	62	0.018	3	0.70	0.013	0.11	0.8	0.08	0.8	0.3	0.07	4	0.6	<0.2
SS10-407	Soil	6	17	0.26	56	0.027	3	1.85	0.007	0.04	1.3	0.07	0.5	0.1	0.20	11	1.0	<0.2
SS10-408	Soil	4	12	0.22	64	0.059	2	0.72	0.008	0.07	0.3	0.05	0.6	0.1	0.14	5	<0.5	<0.2
SS10-409	Soil	6	8	0.07	44	0.049	1	1.42	0.006	0.02	0.8	0.07	0.5	<0.1	0.16	8	0.6	<0.2
SS10-410	Soil	5	9	0.11	38	0.050	1	1.04	0.005	0.04	2.1	0.07	0.4	0.1	0.10	7	<0.5	<0.2
SS10-411	Soil	7	11	0.14	48	0.037	2	1.43	0.006	0.04	1.0	0.06	0.7	<0.1	0.14	11	0.6	<0.2
SS10-412	Soil	14	10	0.07	74	0.008	3	1.77	0.008	0.05	0.9	0.10	0.3	0.2	0.10	5	0.9	<0.2
SS10-413	Soil	3	19	0.28	71	0.146	2	0.75	0.007	0.10	4.3	0.02	0.9	0.1	0.07	6	<0.5	0.6
SS10-414	Soil	7	10	0.13	35	0.011	3	1.71	0.009	0.04	0.8	0.10	0.3	0.1	0.15	8	0.9	<0.2
SS10-415	Soil	4	6	0.04	33	0.042	3	0.38	0.007	0.06	0.3	0.04	0.5	0.2	0.09	3	<0.5	<0.2
SS10-417	Soil	8	9	0.06	48	0.037	1	0.92	0.006	0.04	0.5	0.03	0.5	0.1	0.08	7	<0.5	<0.2
SS10-418	Soil	8	4	0.03	53	0.004	2	0.76	0.007	0.05	0.5	0.06	0.2	0.3	0.06	4	<0.5	<0.2
SS10-419	Soil	6	16	0.20	41	0.017	2	1.87	0.009	0.05	0.5	0.14	0.4	<0.1	0.30	6	0.7	<0.2
SS10-420	Soil	8	7	0.06	34	0.005	3	1.18	0.005	0.04	1.4	0.06	0.7	0.2	<0.05	5	<0.5	0.3

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
SS10-421	Soil	28.8	21.5	13.8	12	0.2	2.5	4.0	79	0.95	5.2	1.1	3.5	0.3	11	0.1	1.0	1.3	48	0.03	0.047
SS10-422	Soil	4.4	12.9	3.2	15	0.4	2.4	2.0	58	0.75	2.2	0.3	4.3	0.1	12	0.1	1.2	0.2	26	0.08	0.068
SS10-423	Soil	17.2	146.8	14.5	17	0.6	5.5	3.4	98	1.20	7.9	1.7	6.3	0.2	9	0.1	0.9	0.8	38	0.05	0.093
SS10-424	Soil	7.2	59.4	10.5	14	0.2	4.0	3.8	90	1.35	8.5	1.6	4.6	0.1	12	<0.1	1.3	0.7	45	0.05	0.097
SS10-425	Soil	18.5	25.0	13.0	12	0.2	3.0	2.7	224	1.20	8.1	0.7	7.0	0.7	12	0.1	1.1	0.7	56	0.07	0.051
SS10-426	Soil	12.4	38.0	12.6	10	1.2	3.1	3.3	32	1.36	12.1	1.2	6.4	0.1	12	0.1	1.6	0.8	45	0.06	0.067
SS10-427	Soil	28.6	65.3	13.7	29	0.2	7.6	7.0	887	2.53	4.1	1.7	3.9	1.7	13	0.1	0.7	0.8	77	0.10	0.103
SS10-428	Soil	16.0	35.4	19.4	22	0.5	4.9	4.9	154	1.75	70.0	1.3	7.0	0.2	13	0.1	1.0	2.6	49	0.05	0.079
SS10-429	Soil	51.8	97.9	18.6	32	0.2	5.7	11.4	156	2.71	43.7	1.5	3.8	0.6	10	<0.1	2.6	1.6	68	0.06	0.085
SS10-430	Soil	5.1	96.2	12.9	48	0.2	17.6	9.9	271	3.06	15.6	1.2	3.2	0.8	12	0.1	1.1	0.3	75	0.11	0.118
SS10-431	Soil	79.4	147.1	9.7	25	0.2	7.4	6.4	271	3.95	8.9	1.9	1.6	0.6	12	<0.1	1.2	0.6	66	0.07	0.088
SS10-432	Soil	36.9	175.9	10.4	29	0.3	7.0	11.8	355	3.84	16.5	2.0	5.1	0.4	15	0.2	2.4	1.8	56	0.05	0.103
SS10-433	Soil	16.5	13.5	10.5	23	0.2	2.9	2.7	273	1.22	5.8	0.5	3.0	0.2	16	<0.1	1.1	0.7	47	0.03	0.052
SS10-434	Soil	10.4	424.4	21.1	27	0.1	6.6	3.4	77	1.05	2.9	13.0	1.8	0.4	24	0.1	1.8	0.8	27	0.14	0.141
SS10-435	Soil	62.2	92.0	11.3	24	0.3	6.0	8.3	197	2.20	11.5	1.5	2.7	0.2	20	0.2	2.5	0.8	66	0.09	0.088
SS10-436	Soil	41.7	31.6	18.2	26	0.4	5.8	6.9	341	2.08	12.7	1.3	4.6	0.5	14	0.2	1.9	0.6	77	0.09	0.091
SS10-437	Soil	4.9	34.9	10.1	13	0.3	3.1	2.2	123	1.08	2.2	1.3	3.1	0.4	11	<0.1	0.4	0.9	55	0.05	0.075
SS10-438	Soil	15.2	95.2	9.2	23	0.3	5.0	3.7	108	1.40	8.1	1.1	6.0	<0.1	14	0.1	1.0	1.2	33	0.06	0.117
SS10-439	Soil	14.8	160.6	15.1	40	0.4	9.5	11.9	230	3.59	25.2	1.9	7.6	0.9	20	<0.1	4.9	1.1	78	0.09	0.139
SS10-440	Soil	18.2	80.3	5.8	28	0.6	7.7	4.3	214	2.25	9.8	2.9	5.1	0.4	10	0.2	1.2	0.6	50	0.06	0.169
SS10-441	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-442	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-443	Soil	8.6	23.3	2.8	8	0.2	6.0	1.1	30	1.03	1.4	0.4	7.6	0.2	9	<0.1	0.6	0.4	37	0.04	0.023
SS10-444	Soil	13.6	68.0	6.4	13	0.4	3.7	2.3	112	1.10	2.6	0.8	14.6	0.1	9	0.2	4.0	0.7	35	0.05	0.090
SS10-445	Soil	50.2	284.0	5.0	18	1.2	5.0	7.4	465	4.33	9.8	2.2	7.4	0.6	6	0.4	1.5	1.0	75	0.05	0.249
SS10-446	Soil	10.8	55.0	12.9	13	2.0	3.4	1.5	63	1.09	24.3	1.9	3.5	0.6	11	<0.1	38.7	1.0	41	0.09	0.094
SS10-447	Soil	20.8	978.6	29.9	36	0.7	8.3	6.2	199	2.20	10.7	11.7	9.9	0.7	15	0.1	2.8	0.7	33	0.09	0.189
SS10-448	Soil	12.1	15.3	4.9	10	0.1	2.1	0.9	60	0.52	1.0	0.4	2.3	0.2	30	<0.1	0.8	0.2	17	0.07	0.050
SS10-449	Soil	7.1	29.3	5.6	9	1.1	3.2	2.4	37	1.31	2.9	0.9	7.3	1.0	9	<0.1	1.2	0.9	47	0.04	0.045
SS10-450	Soil	55.8	407.0	4.9	13	4.9	7.4	2.8	72	2.60	3.2	2.2	32.8	1.7	5	<0.1	2.2	1.5	80	0.07	0.130

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
SS10-421	Soil	5	9	0.05	47	0.086	1	1.15	0.007	0.03	0.6	0.04	0.6	0.2	0.08	9	<0.5	0.4
SS10-422	Soil	3	9	0.05	53	0.025	2	0.34	0.008	0.06	1.4	0.08	0.6	0.2	<0.05	2	0.8	0.2
SS10-423	Soil	6	15	0.20	46	0.040	2	1.86	0.006	0.05	0.6	0.07	0.7	0.1	0.13	10	1.0	0.2
SS10-424	Soil	7	11	0.16	52	0.044	1	1.42	0.007	0.05	4.1	0.06	0.7	<0.1	0.14	11	<0.5	1.0
SS10-425	Soil	4	12	0.17	61	0.143	2	0.50	0.007	0.09	4.3	0.03	1.1	0.2	0.10	6	<0.5	<0.2
SS10-426	Soil	6	11	0.08	52	0.044	2	1.64	0.006	0.03	0.8	0.09	0.6	0.1	0.08	9	0.8	<0.2
SS10-427	Soil	4	20	0.71	103	0.179	2	1.28	0.009	0.21	4.6	0.06	2.4	0.5	0.10	11	0.7	<0.2
SS10-428	Soil	6	15	0.16	63	0.036	2	1.99	0.006	0.06	0.5	0.07	0.9	0.2	0.10	9	1.1	1.6
SS10-429	Soil	7	18	0.32	56	0.058	2	2.06	0.005	0.05	2.0	0.05	1.5	0.2	0.08	12	1.5	0.5
SS10-430	Soil	10	33	0.61	111	0.099	2	3.57	0.015	0.17	0.6	0.06	3.4	0.2	0.09	10	1.0	0.3
SS10-431	Soil	10	29	0.33	63	0.066	2	2.77	0.011	0.07	3.0	0.06	1.5	0.1	0.10	14	1.5	0.2
SS10-432	Soil	7	18	0.34	79	0.039	3	2.40	0.007	0.06	5.8	0.08	1.0	0.1	0.13	16	2.0	0.4
SS10-433	Soil	6	8	0.07	81	0.041	1	0.66	0.006	0.08	0.7	0.03	0.8	0.2	0.09	7	0.7	<0.2
SS10-434	Soil	10	16	0.22	105	0.013	2	1.79	0.006	0.06	0.8	0.28	0.8	0.2	0.11	9	1.5	<0.2
SS10-435	Soil	5	15	0.20	95	0.087	4	1.70	0.007	0.07	2.0	0.07	1.2	0.2	0.23	10	1.4	<0.2
SS10-436	Soil	5	14	0.26	69	0.114	3	1.42	0.011	0.07	1.6	0.07	1.4	0.3	0.15	13	0.8	<0.2
SS10-437	Soil	4	12	0.15	49	0.069	<1	1.10	0.007	0.05	0.9	0.06	1.0	0.1	0.17	9	<0.5	<0.2
SS10-438	Soil	8	13	0.16	59	0.018	2	1.68	0.009	0.08	3.4	0.08	0.6	0.2	0.12	10	1.4	0.4
SS10-439	Soil	9	28	0.56	99	0.044	4	2.60	0.008	0.08	2.7	0.05	1.8	0.3	0.06	12	1.2	0.6
SS10-440	Soil	7	29	0.24	52	0.038	3	4.78	0.008	0.05	3.0	0.15	1.0	0.2	0.25	12	3.2	<0.2
SS10-441	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-442	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-443	Soil	6	21	0.04	29	0.020	<1	0.50	0.006	0.03	0.2	<0.01	0.4	0.2	0.08	6	<0.5	<0.2
SS10-444	Soil	8	13	0.13	35	0.037	4	0.81	0.010	0.08	31.0	0.05	0.8	0.4	0.11	7	0.7	<0.2
SS10-445	Soil	5	27	0.38	58	0.057	2	2.28	0.015	0.04	11.4	0.11	1.1	0.3	0.11	11	2.6	0.6
SS10-446	Soil	7	17	0.25	38	0.096	3	1.12	0.009	0.06	3.9	0.13	0.9	0.2	0.09	9	<0.5	0.4
SS10-447	Soil	20	17	0.28	93	0.022	3	3.48	0.013	0.07	2.5	0.12	0.9	0.2	0.14	7	1.1	<0.2
SS10-448	Soil	6	12	0.05	40	0.029	3	0.39	0.009	0.07	0.2	0.03	0.4	0.1	0.08	3	<0.5	<0.2
SS10-449	Soil	5	16	0.09	29	0.063	2	0.47	0.009	0.04	1.3	0.02	0.6	0.1	0.05	5	<0.5	<0.2
SS10-450	Soil	5	30	0.35	45	0.094	2	1.32	0.015	0.08	6.2	0.08	1.6	0.1	0.12	8	1.5	<0.2

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
SS10-451	Soil		6.3	38.6	12.4	14	0.8	4.4	2.6	52	0.84	6.7	1.2	2.9	0.1	11	<0.1	2.5	2.9	36	0.03	0.075
SS10-452	Soil		4.5	111.1	27.2	16	0.2	3.0	1.6	38	0.74	7.4	1.4	32.0	0.2	15	<0.1	2.7	1.0	30	0.04	0.089
SS10-453	Soil		9.0	25.1	10.5	17	0.3	3.8	2.0	98	0.95	2.1	0.9	2.3	0.1	13	0.1	0.7	0.4	26	0.05	0.078
SS10-454	Soil		14.0	40.8	24.2	34	0.5	5.8	8.0	2489	2.54	29.9	0.6	9.5	0.3	15	0.2	7.6	1.3	63	0.05	0.161
SS10-455	Soil		5.9	15.8	9.1	15	0.2	3.4	1.8	63	0.88	5.8	0.5	4.7	0.2	19	<0.1	1.8	0.8	39	0.04	0.040
SS10-456	Soil		4.0	7.0	7.3	7	0.4	3.1	0.7	31	0.43	3.6	0.4	8.5	<0.1	11	<0.1	1.1	0.5	16	0.03	0.039
SS10-457	Soil		37.0	409.9	11.0	21	1.2	6.5	3.6	89	2.25	12.9	5.3	4.1	2.0	8	0.2	9.8	0.7	53	0.12	0.091
SS10-458	Soil		75.6	1447	24.1	77	3.4	16.6	31.3	759	5.83	106.4	9.7	24.7	3.8	13	0.3	88.7	3.1	74	0.14	0.189
SS10-459	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-460	Soil		46.3	241.1	13.9	39	0.3	5.9	3.7	96	1.51	21.1	2.1	6.1	0.3	20	0.2	13.9	1.4	32	0.10	0.052
SS10-461	Soil		82.0	377.4	11.9	25	0.6	5.8	13.7	2273	5.02	13.0	3.2	18.9	1.0	12	0.4	2.5	1.9	132	0.07	0.236
SS10-462	Soil		79.1	699.1	14.1	52	0.3	10.5	13.6	427	2.83	45.3	4.9	5.1	0.5	49	0.5	25.0	1.5	47	0.34	0.136
SS10-463	Soil		7.2	31.7	2.5	8	0.2	3.3	1.5	29	0.86	2.4	0.4	3.7	0.6	8	<0.1	0.7	0.2	32	0.04	0.051
SS10-464	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-465	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-466	Soil		54.7	331.3	15.3	33	0.8	7.2	4.5	103	1.79	13.3	2.9	7.5	0.2	38	0.4	4.2	2.4	45	0.18	0.129
SS10-467	Soil		78.0	672.9	14.3	52	0.2	11.0	5.3	142	2.27	13.6	6.6	6.0	1.5	43	0.3	7.4	0.6	33	0.25	0.077
SS10-468	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-469	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-470	Soil		27.1	129.9	13.7	15	0.2	3.8	1.8	90	1.29	5.4	1.8	15.1	0.5	19	0.2	2.0	0.7	41	0.11	0.074
SS10-471	Soil		18.8	44.3	13.7	26	0.1	4.3	2.5	111	1.84	10.0	1.0	4.4	0.2	15	0.1	1.7	0.6	46	0.06	0.082
SS10-472	Soil		9.5	77.2	15.2	12	0.3	2.8	1.0	49	0.64	4.2	1.0	4.8	0.1	15	0.3	2.7	0.8	26	0.06	0.085
SS10-473	Soil		7.9	88.0	7.8	17	0.2	3.8	5.7	56	2.13	34.0	0.8	12.4	0.2	9	0.2	8.8	0.9	63	0.03	0.060
SS10-474	Soil		37.4	102.7	4.1	15	0.3	4.5	4.2	62	1.64	4.9	1.1	7.2	0.3	7	<0.1	2.6	0.5	51	0.04	0.104
SS10-475	Soil		40.2	1405	14.9	106	1.4	16.5	9.6	231	3.19	43.3	7.0	11.1	1.6	42	0.9	29.5	1.4	47	0.39	0.119
SS10-476	Soil		20.4	116.2	14.2	24	0.3	6.8	4.5	252	1.96	5.6	2.5	9.5	0.6	17	0.1	3.0	1.2	60	0.09	0.135
SS10-477	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-478	Soil		20.2	117.9	9.8	17	0.3	4.6	4.0	203	1.78	8.8	1.6	34.8	1.0	10	0.1	6.5	1.2	58	0.09	0.107
SS10-479	Soil		160.4	3363	207.3	165	93.7	18.3	32.3	540	7.45	1160	19.2	351.9	8.8	30	1.8	>2000	58.2	59	0.35	0.151
SS10-480	Soil		28.6	451.6	11.7	14	1.9	3.2	2.5	65	0.95	20.1	2.7	9.8	0.9	17	0.4	18.8	2.7	24	0.11	0.090

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Project: Sultana
 Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
SS10-451	Soil	7	15	0.16	42	0.042	2	1.58	0.009	0.05	1.2	0.07	0.5	0.1	0.10	10	<0.5	0.3
SS10-452	Soil	11	15	0.15	58	0.008	3	1.84	0.008	0.05	1.2	0.04	0.3	0.3	0.05	10	<0.5	<0.2
SS10-453	Soil	7	15	0.25	43	0.036	3	0.80	0.010	0.07	15.1	0.03	0.7	0.2	0.06	5	<0.5	0.2
SS10-454	Soil	6	14	0.14	47	0.039	3	0.86	0.008	0.07	7.5	0.03	0.8	0.2	0.06	9	<0.5	<0.2
SS10-455	Soil	7	13	0.10	40	0.089	2	0.58	0.009	0.08	2.3	0.01	0.6	0.2	<0.05	6	<0.5	<0.2
SS10-456	Soil	6	9	0.05	26	0.020	2	0.52	0.007	0.04	1.0	0.03	0.3	0.1	<0.05	5	<0.5	<0.2
SS10-457	Soil	11	27	0.42	37	0.092	3	3.07	0.012	0.06	3.3	0.14	2.1	0.1	0.10	9	1.4	<0.2
SS10-458	Soil	14	29	0.67	93	0.055	6	2.51	0.010	0.13	6.0	0.24	4.1	0.2	0.06	9	2.8	0.5
SS10-459	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-460	Soil	9	15	0.29	96	0.026	3	1.44	0.011	0.08	1.6	0.06	1.0	0.2	<0.05	9	<0.5	<0.2
SS10-461	Soil	7	24	0.47	54	0.122	3	1.73	0.006	0.07	15.0	0.06	2.0	0.2	0.13	14	2.2	<0.2
SS10-462	Soil	13	21	0.55	240	0.037	5	1.68	0.012	0.12	9.7	0.07	1.8	0.2	0.10	9	0.7	<0.2
SS10-463	Soil	7	14	0.09	26	0.012	2	0.88	0.008	0.06	2.6	0.02	0.9	0.1	0.07	8	<0.5	<0.2
SS10-464	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-465	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-466	Soil	9	22	0.37	141	0.032	9	1.30	0.013	0.18	9.8	0.03	1.2	0.2	0.12	7	0.7	0.4
SS10-467	Soil	10	23	0.56	142	0.045	5	2.05	0.016	0.09	3.1	0.26	2.0	0.2	0.16	10	0.9	<0.2
SS10-468	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-469	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-470	Soil	7	15	0.17	59	0.084	2	1.50	0.011	0.06	5.8	0.06	0.9	0.3	0.12	11	<0.5	<0.2
SS10-471	Soil	8	16	0.19	65	0.064	4	1.58	0.013	0.08	1.1	0.03	1.2	0.1	0.12	13	<0.5	<0.2
SS10-472	Soil	7	12	0.12	71	0.034	3	1.15	0.017	0.08	2.2	0.08	0.6	0.3	0.15	7	<0.5	<0.2
SS10-473	Soil	6	14	0.13	41	0.032	3	1.48	0.008	0.06	5.7	0.04	0.8	0.2	0.08	10	<0.5	<0.2
SS10-474	Soil	6	22	0.38	39	0.039	2	1.23	0.011	0.10	4.0	0.05	1.4	0.2	0.09	8	0.5	<0.2
SS10-475	Soil	16	26	0.59	200	0.053	5	2.39	0.015	0.13	1.9	0.34	3.0	0.2	0.12	9	1.3	<0.2
SS10-476	Soil	7	23	0.48	85	0.126	4	1.66	0.016	0.16	4.3	0.04	1.8	0.2	0.10	12	<0.5	<0.2
SS10-477	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
SS10-478	Soil	6	19	0.34	57	0.128	4	1.20	0.010	0.09	13.6	0.03	1.6	0.2	0.09	10	<0.5	0.6
SS10-479	Soil	16	23	0.64	202	0.050	4	1.79	0.010	0.14	3.2	5.84	4.8	0.2	0.09	6	2.9	0.6
SS10-480	Soil	8	13	0.19	71	0.027	3	0.94	0.009	0.07	4.9	0.12	0.6	0.1	<0.05	6	0.7	<0.2

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Project: Sultana
Report Date: September 02, 2010

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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
SS10-481	Soil	49.2	383.3	11.5	36	1.7	8.9	7.6	228	3.08	36.6	2.5	13.9	0.7	10	<0.1	32.2	2.6	58	0.06	0.131



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CERTIFICATE OF ANALYSIS

SMI10000426A.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
SS10-481	Soil	10	22	0.37	55	0.018	3	1.90	0.009	0.09	2.9	0.09	1.1	0.2	<0.05	9	0.8	<0.2



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QUALITY CONTROL REPORT

SMI10000426A.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
SS10-245	Soil			2.9	6.6	3.5	5	0.1	1.7	1.1	15	0.77	0.7	0.5	18.9	<0.1	8	<0.1	0.2	0.2	30	0.02	0.026
REP SS10-245	QC			3.2	7.9	3.8	4	<0.1	1.8	1.0	15	0.80	0.5	0.4	4.4	<0.1	8	<0.1	0.2	0.2	31	0.02	0.030
SS10-274	Soil			2.9	14.9	7.6	25	0.6	4.6	3.0	139	2.70	9.5	0.4	4.9	0.2	5	<0.1	1.9	0.3	74	0.02	0.044
REP SS10-274	QC			3.0	15.1	7.8	25	0.5	4.8	3.0	141	2.68	9.9	0.4	9.3	0.2	5	<0.1	2.0	0.3	75	0.02	0.042
SS10-288	Soil			6.2	22.5	7.0	16	0.6	3.9	3.0	72	1.14	5.6	1.1	2.8	<0.1	22	0.2	1.6	0.4	30	0.03	0.075
REP SS10-288	QC			6.5	22.4	6.8	16	0.6	3.8	2.9	75	1.15	5.7	1.0	0.6	<0.1	22	0.2	1.6	0.3	30	0.03	0.074
SS10-311	Soil			284.7	412.2	207.3	194	0.3	11.8	56.7	3078	7.29	151.6	16.3	7.7	1.3	24	1.1	25.0	1.9	70	0.27	0.195
REP SS10-311	QC			291.1	443.4	192.7	198	0.2	11.9	56.3	3081	7.25	155.3	15.4	3.6	1.1	24	1.1	28.3	1.9	72	0.27	0.185
SS10-328	Soil			9.0	68.8	15.1	14	0.3	2.4	1.7	55	0.53	6.5	1.3	11.1	<0.1	15	0.1	5.3	0.8	18	0.09	0.085
REP SS10-328	QC			9.5	73.7	14.3	14	0.4	2.0	1.9	63	0.52	6.1	1.4	18.3	<0.1	15	0.3	5.1	0.7	18	0.10	0.083
SS10-349	Soil			4.3	11.7	3.0	10	0.1	1.6	1.2	45	0.67	1.1	0.4	1.1	0.1	6	<0.1	0.6	0.2	32	0.04	0.035
REP SS10-349	QC			3.2	12.3	3.1	9	0.1	1.7	1.3	46	0.75	1.3	0.4	3.4	0.2	7	<0.1	0.6	0.2	34	0.04	0.036
SS10-370	Soil			9.7	55.4	8.0	12	0.9	2.2	3.0	44	1.40	29.8	0.5	12.7	<0.1	7	0.2	12.9	1.5	32	0.03	0.035
REP SS10-370	QC			9.7	56.7	7.9	12	0.8	2.0	3.0	47	1.39	29.7	0.6	5.8	<0.1	7	0.1	13.7	1.4	33	0.03	0.034
SS10-372	Soil			10.5	49.9	8.9	12	1.0	2.1	1.6	27	0.86	23.7	0.7	2.6	<0.1	9	0.2	6.6	1.0	29	0.03	0.046
REP SS10-372	QC			9.9	45.2	8.9	12	1.0	1.8	1.4	27	0.77	21.7	0.6	4.6	<0.1	8	0.2	6.6	0.9	29	0.03	0.046
SS10-395	Soil			17.7	34.0	10.3	37	0.5	7.1	8.1	316	4.73	14.4	1.1	<0.5	0.9	20	0.1	1.2	0.5	121	0.19	0.087
REP SS10-395	QC			19.3	33.1	10.5	35	0.6	7.3	7.3	289	4.28	14.6	1.1	1.4	0.8	19	0.1	1.2	0.5	114	0.16	0.087
SS10-413	Soil			13.9	46.1	8.4	18	0.2	5.1	5.1	79	2.03	2.7	1.0	9.1	0.7	8	0.1	0.7	0.8	65	0.05	0.053
REP SS10-413	QC			12.9	46.5	8.1	18	0.2	5.7	5.0	86	2.10	2.8	1.0	11.6	0.7	9	<0.1	0.7	0.8	65	0.05	0.055
SS10-435	Soil			62.2	92.0	11.3	24	0.3	6.0	8.3	197	2.20	11.5	1.5	2.7	0.2	20	0.2	2.5	0.8	66	0.09	0.088
REP SS10-435	QC			67.2	94.7	12.6	27	0.3	6.5	9.3	210	2.26	12.5	1.5	3.9	0.3	21	0.3	2.7	0.8	70	0.10	0.089
SS10-452	Soil			4.5	111.1	27.2	16	0.2	3.0	1.6	38	0.74	7.4	1.4	32.0	0.2	15	<0.1	2.7	1.0	30	0.04	0.089
REP SS10-452	QC			4.6	108.2	27.5	16	0.1	3.1	1.5	37	0.74	7.5	1.3	6.9	0.2	15	<0.1	2.6	1.0	31	0.04	0.078
SS10-458	Soil			75.6	1447	24.1	77	3.4	16.6	31.3	759	5.83	106.4	9.7	24.7	3.8	13	0.3	88.7	3.1	74	0.14	0.189
REP SS10-458	QC			75.3	1444	24.9	77	2.9	15.9	30.5	752	5.65	107.0	9.8	19.6	3.9	13	0.3	88.2	3.1	74	0.14	0.170
Reference Materials																							
STD DS7	Standard			20.2	91.7	67.0	372	0.9	53.5	8.1	610	2.33	44.5	4.1	70.5	3.9	70	5.3	4.9	4.0	81	0.90	0.065

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Project: Sultana
 Report Date: September 02, 2010

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
SS10-245	Soil	4	20	0.03	29	0.012	<1	0.48	0.005	0.02	0.9	0.02	0.3	0.1	<0.05	5	<0.5	<0.2
REP SS10-245	QC	4	19	0.02	27	0.015	1	0.50	0.005	0.02	1.7	0.02	0.4	0.1	<0.05	5	<0.5	0.2
SS10-274	Soil	4	10	0.15	29	0.009	<1	1.58	0.007	0.02	0.4	0.06	1.2	<0.1	<0.05	10	<0.5	<0.2
REP SS10-274	QC	4	10	0.15	29	0.009	<1	1.56	0.008	0.03	0.4	0.05	1.3	<0.1	<0.05	9	<0.5	<0.2
SS10-288	Soil	5	9	0.18	57	0.011	<1	1.27	0.005	0.05	1.3	0.06	0.3	0.1	0.07	7	<0.5	<0.2
REP SS10-288	QC	5	9	0.18	55	0.012	1	1.22	0.005	0.05	1.4	0.06	0.4	0.1	0.07	7	<0.5	<0.2
SS10-311	Soil	12	23	0.33	225	0.012	3	3.07	0.008	0.06	3.6	0.09	2.2	0.3	0.11	12	2.7	0.4
REP SS10-311	QC	12	23	0.32	213	0.017	3	2.85	0.008	0.07	4.8	0.09	2.4	0.4	0.14	12	3.0	<0.2
SS10-328	Soil	7	6	0.06	64	0.012	2	0.88	0.008	0.07	1.4	0.06	0.3	0.3	0.12	6	<0.5	<0.2
REP SS10-328	QC	7	7	0.06	71	0.019	3	0.86	0.012	0.07	1.1	0.06	0.5	0.4	0.11	6	0.9	<0.2
SS10-349	Soil	3	10	0.08	27	0.040	1	0.46	0.006	0.04	0.1	0.02	0.4	0.1	<0.05	4	<0.5	<0.2
REP SS10-349	QC	3	10	0.08	26	0.040	1	0.44	0.006	0.04	0.2	0.02	0.4	0.1	<0.05	4	<0.5	<0.2
SS10-370	Soil	5	6	0.08	38	0.012	2	1.05	0.004	0.03	1.6	0.05	0.4	0.2	<0.05	7	<0.5	<0.2
REP SS10-370	QC	5	6	0.08	36	0.011	2	1.03	0.004	0.02	1.7	0.04	0.4	0.2	<0.05	7	<0.5	<0.2
SS10-372	Soil	6	7	0.04	45	0.012	<1	1.04	0.005	0.03	1.5	0.05	0.3	0.2	0.09	8	<0.5	<0.2
REP SS10-372	QC	6	6	0.04	42	0.011	<1	0.98	0.004	0.03	1.2	0.05	0.3	0.2	0.09	7	<0.5	<0.2
SS10-395	Soil	8	19	0.67	56	0.236	2	2.21	0.030	0.18	0.6	0.06	2.6	0.2	0.10	16	1.2	<0.2
REP SS10-395	QC	7	17	0.69	58	0.212	2	2.23	0.027	0.16	0.6	0.07	2.4	0.2	0.12	16	1.3	<0.2
SS10-413	Soil	3	19	0.28	71	0.146	2	0.75	0.007	0.10	4.3	0.02	0.9	0.1	0.07	6	<0.5	0.6
REP SS10-413	QC	3	19	0.28	73	0.154	2	0.77	0.007	0.11	4.6	0.03	1.0	0.1	0.11	6	<0.5	0.4
SS10-435	Soil	5	15	0.20	95	0.087	4	1.70	0.007	0.07	2.0	0.07	1.2	0.2	0.23	10	1.4	<0.2
REP SS10-435	QC	5	16	0.20	99	0.091	2	1.67	0.007	0.07	1.9	0.07	1.4	0.2	0.17	10	1.0	0.5
SS10-452	Soil	11	15	0.15	58	0.008	3	1.84	0.008	0.05	1.2	0.04	0.3	0.3	0.05	10	<0.5	<0.2
REP SS10-452	QC	10	16	0.15	55	0.011	3	1.73	0.014	0.05	1.3	0.03	0.3	0.3	<0.05	10	<0.5	<0.2
SS10-458	Soil	14	29	0.67	93	0.055	6	2.51	0.010	0.13	6.0	0.24	4.1	0.2	0.06	9	2.8	0.5
REP SS10-458	QC	15	29	0.66	91	0.054	5	2.62	0.012	0.13	5.5	0.23	4.2	0.2	0.06	8	3.0	0.6
Reference Materials																		
STD DS7	Standard	11	190	1.03	392	0.115	38	1.01	0.094	0.45	3.6	0.23	2.0	4.3	0.18	5	3.2	1.0

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QUALITY CONTROL REPORT

SMI10000426A.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS7	Standard	21.4	110.3	66.1	363	1.0	55.6	8.8	648	2.24	47.6	4.6	64.4	4.6	70	5.9	5.5	4.2	89	0.89	0.069
STD DS7	Standard	22.0	117.9	74.6	424	1.1	56.5	10.3	665	2.50	56.9	5.4	86.6	5.0	74	6.6	6.6	4.9	92	0.99	0.090
STD DS7	Standard	22.4	117.1	65.9	406	1.0	55.5	9.7	650	2.54	53.7	4.7	67.2	4.5	78	6.4	5.9	4.4	83	0.97	0.076
STD DS7	Standard	21.4	105.9	68.0	402	1.0	54.3	8.8	629	2.33	51.2	4.5	79.7	4.3	70	5.8	5.6	4.5	83	0.93	0.075
STD DS7	Standard	25.2	122.5	75.4	415	1.0	58.7	10.0	690	2.66	57.0	5.4	81.5	5.5	89	6.7	6.4	5.0	97	1.11	0.088
STD DS7	Standard	21.2	112.1	59.0	382	1.0	53.1	9.7	629	2.35	52.8	4.3	76.2	4.1	67	6.4	5.7	4.1	85	0.95	0.074
STD DS7	Standard	22.5	120.1	67.7	421	1.0	58.4	10.1	663	2.53	55.9	4.9	68.0	4.8	78	6.6	6.0	4.3	88	1.04	0.087
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Sultana

Report Date: September 02, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000426A.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS7	Standard	13	194	1.04	398	0.124	36	1.01	0.090	0.47	3.3	0.21	2.3	4.3	0.21	5	3.4	0.6
STD DS7	Standard	13	197	1.14	422	0.135	47	1.11	0.103	0.51	3.8	0.24	2.4	4.4	0.27	5	3.4	1.1
STD DS7	Standard	13	192	1.06	401	0.121	39	1.02	0.115	0.49	3.4	0.21	2.5	4.0	0.23	5	3.5	1.4
STD DS7	Standard	13	189	1.10	413	0.116	40	1.04	0.100	0.48	3.7	0.24	2.3	4.2	0.19	5	3.7	1.1
STD DS7	Standard	15	223	1.17	435	0.154	47	1.22	0.111	0.53	4.1	0.25	2.9	4.3	0.20	5	3.8	0.9
STD DS7	Standard	12	183	1.06	396	0.124	42	1.00	0.096	0.47	3.7	0.21	2.5	4.3	0.21	5	3.5	1.2
STD DS7	Standard	14	207	1.19	421	0.145	45	1.06	0.122	0.51	3.7	0.23	2.8	4.1	0.23	5	3.3	1.6
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	6	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: August 19, 2010
Report Date: November 05, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000441.1

CLIENT JOB INFORMATION

Project: Porphyry Creek
Shipment ID:
P.O. Number
Number of Samples: 16

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Duncastle Gold Corp.
1100 - 1199 West Hastings Street
Vancouver BC V6E 3T5
Canada

CC: Bethany Jacobson
Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	16	Crush, split and pulverize 250 g rock to 200 mesh			SMI
G601	16	Fire Assay fusion Au by ICP-ES	30	Completed	VAN
1EX	16	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Smithers BC V0J 2N0 Canada

Project: Porphyry Creek
 Report Date: November 05, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000441.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	
MWDC 10-04 A	Rock	1.01	<0.005	1.7	194.2	7.0	34	<0.1	20.8	15.4	352	4.20	5	1.2	<0.1	2.7	401	0.3	1.3	0.7	169
MWDC 10-04 B	Rock	0.83	<0.005	0.6	38.9	5.6	53	<0.1	158.3	23.7	626	5.27	1	2.2	<0.1	4.6	90	0.2	3.5	0.3	222
MWDC 10-04 C	Rock	2.04	0.013	1.5	123.7	14.3	43	0.4	26.9	9.7	295	2.18	19	1.4	<0.1	2.6	490	0.6	2.9	1.7	138
MWDC 10-04 D	Rock	0.31	<0.005	4.7	59.4	14.7	30	0.2	5.7	3.5	303	2.04	32	2.5	<0.1	6.8	433	0.2	1.3	0.4	69
MWDC 10-04 E	Rock	0.92	0.007	3.3	85.1	13.4	38	0.2	6.9	12.0	424	3.82	4	1.1	<0.1	3.1	396	0.2	2.6	0.4	127
MWDC 10-04 F	Rock	0.30	<0.005	2.1	115.8	11.8	21	0.3	2.9	2.0	192	2.55	11	3.6	<0.1	7.6	367	0.2	2.2	1.3	52
MWDC 10-04 G	Rock	1.18	<0.005	4.3	90.5	14.4	28	0.2	7.8	6.6	260	2.22	115	3.3	<0.1	8.4	410	0.3	1.8	1.6	66
MWDC 10-05	Rock	1.30	0.006	5.6	471.2	1.9	105	0.2	103.3	34.2	2589	10.02	1	2.2	<0.1	5.3	313	<0.1	3.9	1.2	169
MWDC 10-06	Rock	1.12	<0.005	3.5	80.0	6.8	29	0.1	10.4	9.7	420	2.68	5	2.6	<0.1	6.4	451	0.1	0.9	0.4	108
MWDC 10-07 A	Rock	1.22	0.014	4.1	107.3	7.0	37	<0.1	22.0	13.5	355	2.90	61	2.9	<0.1	7.3	466	0.2	0.8	1.1	87
MWDC 10-07 B	Rock	0.83	0.019	3.1	40.0	12.3	41	0.1	22.2	10.5	427	3.23	43	2.8	<0.1	6.4	451	0.1	1.1	0.4	89
MWDC 10-07 C	Rock	2.07	<0.005	9.0	107.6	3.0	21	0.1	122.8	20.1	398	4.75	3	2.7	<0.1	4.9	92	<0.1	1.6	0.6	161
MWS 10-01 A	Rock	0.26	0.012	139.1	2065	7.4	36	1.8	12.2	24.7	338	3.41	2	4.2	<0.1	7.4	288	<0.1	3.7	0.8	70
MWS 10-01 B	Rock	0.39	0.011	5.6	983.3	6.0	33	1.3	11.3	9.9	514	3.08	<1	3.0	<0.1	6.9	393	<0.1	0.4	0.2	81
MWS 10-01 C	Rock	0.51	<0.005	4.9	184.4	8.5	29	0.2	11.1	14.5	381	2.85	2	2.7	<0.1	6.0	363	<0.1	0.5	0.3	72
MWS 10-01 D	Rock	0.20	0.026	58.2	1979	8.6	27	1.5	8.5	8.9	361	2.41	2	3.3	<0.1	7.3	347	<0.1	1.5	0.4	67



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Project: Porphyry Creek
 Report Date: November 05, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI10000441.1

Method	Analyte	Unit	MDL	1EX Ca	1EX P	1EX La	1EX Cr	1EX Mg	1EX Ba	1EX Ti	1EX Al	1EX Na	1EX K	1EX W	1EX Zr	1EX Ce	1EX Sn	1EX Y	1EX Nb	1EX Ta	1EX Be	1EX Sc	1EX Li
MWDC 10-04 A	Rock	%	0.01	2.86	0.166	12.9	23	1.42	402	0.757	9.03	2.384	3.96	2.6	26.6	29	4.3	16.4	16.6	0.8	<1	14	17.9
MWDC 10-04 B	Rock	%	0.001	0.39	0.117	13.5	135	1.80	1272	0.510	7.54	0.679	3.09	2.0	23.9	33	1.3	10.2	12.2	0.7	2	18	69.3
MWDC 10-04 C	Rock	ppm	0.1	3.72	0.176	10.4	22	1.34	214	0.702	8.24	4.169	0.52	2.7	32.7	28	7.3	19.3	15.5	0.7	2	12	16.5
MWDC 10-04 D	Rock	ppm	1	2.39	0.073	14.4	31	0.94	1377	0.301	7.06	2.997	2.65	1.9	42.6	29	1.2	9.9	13.8	0.8	2	7	7.3
MWDC 10-04 E	Rock	%	0.01	3.54	0.156	11.7	8	1.08	258	0.582	8.20	3.014	2.91	1.9	31.8	28	3.0	15.8	19.6	0.9	1	11	9.3
MWDC 10-04 F	Rock	ppm	1	1.50	0.075	21.7	27	0.75	1389	0.296	7.18	3.091	2.00	1.6	33.6	38	3.9	11.7	11.6	0.7	<1	5	9.6
MWDC 10-04 G	Rock	ppm	1	1.90	0.075	19.0	30	0.91	1255	0.320	7.47	3.431	2.18	1.5	51.4	37	2.4	11.0	14.5	1.0	1	7	10.9
MWDC 10-05	Rock	%	0.01	7.89	0.144	23.9	87	5.12	79	0.336	6.68	0.318	0.34	1.8	42.3	47	5.8	36.6	8.3	0.4	<1	22	21.8
MWDC 10-06	Rock	ppm	1	3.21	0.107	14.5	32	1.43	932	0.451	7.58	3.212	2.02	1.6	54.1	31	1.7	12.1	15.3	0.9	1	11	12.2
MWDC 10-07 A	Rock	%	0.01	2.98	0.089	13.5	41	1.23	1064	0.368	7.59	3.433	1.82	1.1	70.0	29	1.3	10.3	15.0	0.9	1	8	17.3
MWDC 10-07 B	Rock	ppm	1	2.92	0.093	15.7	46	1.32	1165	0.393	7.53	3.127	2.26	0.8	81.7	32	1.2	11.4	16.6	0.9	2	9	18.1
MWDC 10-07 C	Rock	ppm	1	0.39	0.060	14.2	98	1.48	70	0.112	7.35	1.245	2.83	0.4	55.3	33	0.4	8.1	2.0	0.1	2	15	73.4
MWS 10-01 A	Rock	%	0.01	1.87	0.089	11.5	23	1.00	140	0.267	6.81	2.457	3.27	19.1	8.7	27	1.3	9.7	14.0	0.9	2	7	13.5
MWS 10-01 B	Rock	ppm	1	2.43	0.096	14.3	19	1.05	1005	0.297	7.05	2.826	2.96	12.1	9.2	30	0.9	10.1	15.0	0.9	1	8	11.9
MWS 10-01 C	Rock	%	0.01	2.18	0.096	15.7	23	0.99	945	0.282	6.93	2.786	2.87	3.0	7.9	32	1.2	10.2	13.7	0.9	1	7	12.6
MWS 10-01 D	Rock	ppm	1	2.12	0.081	10.9	18	0.93	895	0.230	6.08	2.153	2.53	4.6	6.7	23	0.7	7.7	11.0	0.7	1	6	13.0



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Project: Porphyry Creek
Report Date: November 05, 2010

Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

SMI10000441.1

Method	1EX	1EX	1EX	
Analyte	S	Rb	Hf	
Unit	%	ppm	ppm	
MDL	0.1	0.1	0.1	
MWDC 10-04 A	Rock	0.6	110.2	0.7
MWDC 10-04 B	Rock	<0.1	91.4	0.6
MWDC 10-04 C	Rock	0.3	13.5	0.9
MWDC 10-04 D	Rock	0.1	57.7	1.4
MWDC 10-04 E	Rock	0.9	57.3	0.8
MWDC 10-04 F	Rock	0.2	53.8	1.0
MWDC 10-04 G	Rock	0.2	60.9	1.5
MWDC 10-05	Rock	3.7	15.5	1.3
MWDC 10-06	Rock	0.5	51.1	1.6
MWDC 10-07 A	Rock	0.5	42.3	2.0
MWDC 10-07 B	Rock	0.2	57.9	2.2
MWDC 10-07 C	Rock	1.6	90.3	1.4
MWS 10-01 A	Rock	1.6	154.4	0.4
MWS 10-01 B	Rock	0.3	108.3	0.5
MWS 10-01 C	Rock	0.4	115.5	0.4
MWS 10-01 D	Rock	0.5	112.4	0.3



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Project: Porphyry Creek
Report Date: November 05, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI10000441.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	
Pulp Duplicates																					
MWDC 10-06	Rock	1.12	<0.005	3.5	80.0	6.8	29	0.1	10.4	9.7	420	2.68	5	2.6	<0.1	6.4	451	0.1	0.9	0.4	108
REP MWDC 10-06	QC			3.8	77.0	7.0	29	<0.1	9.4	10.4	423	2.73	5	2.7	<0.1	6.6	446	<0.1	1.0	0.4	109
Core Reject Duplicates																					
MWS 10-01 C	Rock	0.51	<0.005	4.9	184.4	8.5	29	0.2	11.1	14.5	381	2.85	2	2.7	<0.1	6.0	363	<0.1	0.5	0.3	72
DUP MWS 10-01 C	QC		<0.005	3.9	183.6	7.4	31	0.2	11.1	14.7	409	2.96	3	2.9	<0.1	7.0	374	<0.1	0.4	0.2	73
Reference Materials																					
STD OREAS24P	Standard			1.4	49.7	2.7	108	<0.1	146.1	45.9	1117	7.30	<1	0.7	<0.1	2.7	388	<0.1	<0.1	<0.1	160
STD OREAS45P	Standard			2.3	746.8	22.1	137	0.4	404.4	122.9	1347	18.66	12	2.0	<0.1	9.8	33	<0.1	0.7	0.2	270
STD OXH66	Standard		1.315																		
STD OXH66	Standard		1.216																		
STD OXK79	Standard		3.671																		
STD OXK79	Standard		3.588																		
STD OXH66 Expected			1.285																		
STD OXK79 Expected			3.532																		
STD OREAS24P Expected				1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158
STD OREAS45P Expected				2.1	749	22	141	0.32	385	120	1338	19.22	12	2.2	0.055	9.8	32.6	0.2	0.82	0.21	267
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
Prep Wash																					
G1	Prep Blank		<0.005	0.2	4.8	27.8	57	<0.1	3.6	5.1	771	2.27	<1	2.7	<0.1	7.3	702	0.2	0.1	0.2	50
G1	Prep Blank		<0.005	0.3	33.3	41.1	89	0.3	3.3	5.5	781	2.35	<1	2.4	<0.1	6.3	705	0.4	0.2	0.3	50



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 Smithers BC V0J 2N0 Canada

Project: Porphyry Creek
 Report Date: November 05, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

SMI10000441.1

Method	Analyte	Unit	MDL	1EX Ca	1EX P	1EX La	1EX Cr	1EX Mg	1EX Ba	1EX Ti	1EX Al	1EX Na	1EX K	1EX W	1EX Zr	1EX Ce	1EX Sn	1EX Y	1EX Nb	1EX Ta	1EX Be	1EX Sc	1EX Li
				%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
Pulp Duplicates																							
MWDC 10-06	Rock			3.21	0.107	14.5	32	1.43	932	0.451	7.58	3.212	2.02	1.6	54.1	31	1.7	12.1	15.3	0.9	1	11	12.2
REP MWDC 10-06	QC			3.25	0.106	15.3	34	1.46	967	0.449	7.67	3.293	2.04	1.3	53.9	33	1.4	11.7	16.8	1.0	2	11	12.6
Core Reject Duplicates																							
MWS 10-01 C	Rock			2.18	0.096	15.7	23	0.99	945	0.282	6.93	2.786	2.87	3.0	7.9	32	1.2	10.2	13.7	0.9	1	7	12.6
DUP MWS 10-01 C	QC			2.22	0.100	18.9	21	1.01	980	0.285	7.28	2.828	2.70	2.9	9.9	37	1.0	9.7	15.0	0.9	1	7	16.0
Reference Materials																							
STD OREAS24P	Standard			5.86	0.125	18.8	194	3.96	284	1.090	7.97	2.349	0.68	0.5	141.0	38	1.7	21.2	21.9	1.2	1	20	6.6
STD OREAS45P	Standard			0.30	0.048	24.8	1093	0.20	285	1.036	7.17	0.070	0.38	0.9	151.4	51	2.5	12.6	21.8	1.2	<1	70	11.9
STD OXH66	Standard																						
STD OXH66	Standard																						
STD OXK79	Standard																						
STD OXK79	Standard																						
STD OXH66 Expected																							
STD OXK79 Expected																							
STD OREAS24P Expected				5.83	0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	37.6	1.6	21.3	21	1.04		20	8.7
STD OREAS45P Expected				0.3	0.047	24.8	1089	0.1962	296	1.037	6.82	0.081	0.35	1.1	154	48.9	2.5	13	21.6	1.2		67	14.7
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						
BLK	Blank			<0.01	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1
Prep Wash																							
G1	Prep Blank			2.40	0.076	21.9	11	0.59	1015	0.244	7.21	2.743	2.84	0.3	10.2	48	2.0	13.0	31.9	1.6	3	5	43.0
G1	Prep Blank			2.41	0.076	18.2	10	0.59	1041	0.248	6.85	2.708	3.04	0.3	11.5	43	1.8	11.5	30.4	1.4	4	5	43.1



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 Smithers BC V0J 2N0 Canada

Project: Porphyry Creek

Report Date: November 05, 2010

Page: 1 of 1 **Part** 3

QUALITY CONTROL REPORT

SMI10000441.1

Method	1EX	1EX	1EX	
Analyte	S	Rb	Hf	
Unit	%	ppm	ppm	
MDL	0.1	0.1	0.1	
Pulp Duplicates				
MWDC 10-06	Rock	0.5	51.1	1.6
REP MWDC 10-06	QC	0.5	52.8	1.6
Core Reject Duplicates				
MWS 10-01 C	Rock	0.4	115.5	0.4
DUP MWS 10-01 C	QC	0.4	111.0	0.4
Reference Materials				
STD OREAS24P	Standard	<0.1	20.7	3.4
STD OREAS45P	Standard	<0.1	21.7	3.9
STD OXH66	Standard			
STD OXH66	Standard			
STD OXK79	Standard			
STD OXK79	Standard			
STD OXH66 Expected				
STD OXK79 Expected				
STD OREAS24P Expected		22.4	3.6	
STD OREAS45P Expected	0.03	24.6	4.12	
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank	<0.1	<0.1	<0.1
Prep Wash				
G1	Prep Blank	<0.1	106.7	0.6
G1	Prep Blank	<0.1	107.1	0.6



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 08, 2010
Report Date: November 01, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI10000683.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 36

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	34	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	35	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	35	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: November 01, 2010

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

SMI10000683.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162650	Drill Core	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
162651	Drill Core	3.53	<2	9.1	45.9	2.2	19	<0.1	8.7	7.7	277	2.33	2.1	1.1	7.4	37	<0.1	<0.1	<0.1	58	1.17
162652	Drill Core	6.43	4	86.3	801.2	3.3	33	0.6	8.1	9.7	244	2.34	19.0	3.7	8.7	33	0.2	1.0	0.3	54	0.99
162653	Drill Core	6.66	3	3.6	611.4	2.1	22	0.4	8.7	9.2	240	2.24	2.8	1.5	10.8	27	<0.1	0.2	0.2	58	0.73
162654	Drill Core	6.61	<2	15.1	188.8	2.1	22	0.2	6.3	7.4	190	2.02	1.8	2.9	7.8	28	<0.1	0.2	<0.1	53	0.65
162655	Drill Core	6.12	4	15.3	404.3	2.4	23	0.4	7.6	9.5	259	2.15	8.4	1.6	8.8	36	<0.1	0.3	0.2	52	1.00
162656	Drill Core	6.69	<2	6.1	356.7	2.1	28	0.2	7.8	11.9	306	2.47	5.5	1.3	10.8	53	0.1	1.3	0.1	59	0.99
162657	Drill Core	6.84	<2	2.6	223.3	94.4	764	0.5	6.7	10.1	481	2.27	51.0	2.8	9.6	92	9.2	17.5	0.7	38	2.55
162658	Drill Core	6.81	<2	3.4	233.6	2.6	27	0.3	7.4	8.7	360	2.41	3.2	2.5	10.7	87	0.1	0.8	0.1	52	1.76
162659	Drill Core	6.31	<2	1.5	445.8	5.3	32	0.4	7.6	9.7	275	2.45	2.1	1.1	10.2	58	0.1	0.5	0.2	61	1.06
162660	Rock Pulp	0.06	1374	253.8	9750	79.9	135	4.7	34.7	18.9	354	4.30	40.4	1560	10.4	62	2.3	12.0	3.8	54	1.41
162661	Drill Core	6.43	<2	1.2	47.0	2.2	19	<0.1	7.5	6.6	221	2.36	1.9	1.4	10.0	40	<0.1	0.1	<0.1	66	0.79
162662	Drill Core	6.45	8	2.4	424.4	2.1	102	0.3	7.6	11.2	243	2.35	2.2	1.9	9.9	34	1.0	0.1	0.1	61	0.77
162663	Drill Core	6.91	4	2.7	277.8	2.8	149	0.3	8.5	12.4	290	2.77	2.3	5.1	8.9	81	1.2	0.2	0.1	75	0.92
162664	Drill Core	6.66	<2	4.1	46.1	3.3	27	<0.1	7.4	8.0	234	2.30	1.6	0.8	10.1	59	<0.1	0.3	<0.1	64	0.71
162665	Drill Core	6.45	<2	2.5	161.7	2.3	19	<0.1	7.9	6.9	219	2.29	2.0	1.4	11.4	113	<0.1	0.2	<0.1	61	1.01
162666	Drill Core	6.61	<2	23.9	691.6	2.9	38	0.6	11.1	13.3	299	3.36	1.7	3.2	7.8	53	<0.1	0.8	0.2	94	1.24
162667	Drill Core	6.78	4	183.2	1021	2.7	24	0.6	8.8	10.3	248	2.67	1.2	6.3	14.4	45	<0.1	0.1	0.2	71	1.02
162668	Drill Core	6.59	<2	4.1	467.3	2.5	23	0.4	8.6	9.6	242	2.72	1.5	3.0	10.5	38	<0.1	0.1	0.4	68	1.09
162669	Drill Core	6.95	3	127.2	720.3	2.2	21	0.6	8.5	10.4	224	2.43	1.6	4.9	10.1	40	0.1	0.1	0.7	60	0.95
162670	Drill Core	6.55	7	5.9	545.0	7.9	28	1.3	7.2	10.2	203	2.51	2.4	7.6	10.7	52	0.2	0.2	0.8	59	0.90
162671	Drill Core	7.43	<2	8.9	202.8	2.3	18	0.2	8.0	13.1	207	2.37	1.3	2.6	10.8	51	<0.1	0.2	0.2	59	0.89
162672	Drill Core	6.78	<2	6.3	184.4	2.8	19	0.1	8.7	8.6	201	2.54	1.1	0.6	10.7	42	<0.1	0.2	0.2	67	0.93
162673	Drill Core	6.83	5	9.4	321.5	2.4	20	0.2	9.1	9.4	212	2.70	3.2	1.3	10.7	43	<0.1	0.2	0.7	66	1.04
162674	Drill Core	7.63	<2	4.1	285.1	2.6	17	0.3	7.6	7.0	205	2.43	2.7	1.6	11.7	33	<0.1	1.8	0.2	64	0.88
162675	Drill Core	6.75	<2	3.3	108.5	2.3	18	<0.1	7.6	8.1	192	2.46	1.8	1.7	12.0	33	<0.1	0.1	0.1	65	0.92
162676	Drill Core	7.11	<2	4.4	120.0	2.3	22	<0.1	8.5	8.2	235	2.57	1.5	1.2	10.8	29	0.1	0.1	0.1	66	0.97
162677	Drill Core	6.91	<2	12.0	238.3	2.6	20	0.2	7.7	10.2	208	2.56	1.4	1.4	10.8	32	<0.1	0.2	0.2	66	0.95
162678	Drill Core	6.98	3	11.9	317.6	4.2	19	0.4	9.5	15.3	244	2.72	3.3	3.6	9.3	40	<0.1	0.3	0.9	61	1.22
162679	Drill Core	6.64	2	40.0	605.0	3.0	26	0.6	8.1	10.3	222	2.74	13.4	3.9	8.9	38	0.2	4.1	0.2	60	1.13

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Project: Sultana
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CERTIFICATE OF ANALYSIS

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	TI	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162650	Drill Core	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
162651	Drill Core	0.111	12	27	0.70	207	0.092	<20	0.74	0.053	0.16	0.4	<0.01	<0.1	<0.05	2.9	<0.5	4	<0.2
162652	Drill Core	0.099	11	24	0.66	200	0.099	<20	0.78	0.051	0.19	>100	0.01	<0.1	0.24	2.5	0.7	4	<0.2
162653	Drill Core	0.089	10	25	0.68	215	0.140	<20	0.82	0.062	0.24	1.7	<0.01	0.1	0.14	2.0	<0.5	4	<0.2
162654	Drill Core	0.072	9	23	0.55	239	0.125	<20	0.71	0.064	0.20	4.6	<0.01	<0.1	0.14	1.5	<0.5	4	<0.2
162655	Drill Core	0.082	10	24	0.66	122	0.117	<20	0.83	0.056	0.18	61.6	<0.01	<0.1	0.31	2.4	0.7	4	<0.2
162656	Drill Core	0.089	12	24	0.71	408	0.119	<20	0.76	0.061	0.28	23.6	<0.01	0.2	0.26	2.9	0.6	5	<0.2
162657	Drill Core	0.089	12	17	0.48	346	0.031	<20	0.81	0.033	0.22	0.8	0.17	0.1	0.28	3.9	<0.5	3	0.6
162658	Drill Core	0.089	14	22	0.60	273	0.077	<20	0.88	0.043	0.23	0.4	0.01	<0.1	0.13	3.4	<0.5	4	<0.2
162659	Drill Core	0.094	11	26	0.65	110	0.123	<20	0.90	0.060	0.20	1.3	<0.01	<0.1	0.17	2.4	<0.5	4	<0.2
162660	Rock Pulp	0.066	19	67	0.83	89	0.030	<20	1.45	0.033	0.49	2.5	0.19	0.3	2.39	4.6	5.0	5	0.5
162661	Drill Core	0.095	11	27	0.58	122	0.139	<20	0.87	0.075	0.21	0.2	<0.01	<0.1	<0.05	1.4	<0.5	4	<0.2
162662	Drill Core	0.086	9	23	0.63	129	0.127	<20	0.83	0.060	0.23	6.2	<0.01	<0.1	0.23	2.0	<0.5	5	<0.2
162663	Drill Core	0.111	11	23	0.74	141	0.157	<20	1.00	0.066	0.31	7.6	<0.01	0.2	0.33	2.1	<0.5	5	<0.2
162664	Drill Core	0.093	11	25	0.58	159	0.134	<20	0.83	0.072	0.29	0.6	<0.01	0.1	<0.05	1.3	<0.5	4	<0.2
162665	Drill Core	0.092	11	23	0.62	151	0.133	<20	0.88	0.061	0.22	6.5	<0.01	<0.1	0.10	1.7	<0.5	4	<0.2
162666	Drill Core	0.151	14	23	1.01	118	0.172	<20	1.27	0.079	0.29	98.4	<0.01	0.2	0.30	3.1	<0.5	6	<0.2
162667	Drill Core	0.101	11	26	0.81	170	0.180	<20	1.12	0.059	0.32	6.1	<0.01	0.2	0.32	2.6	<0.5	6	<0.2
162668	Drill Core	0.097	10	29	0.74	132	0.159	<20	1.04	0.060	0.23	7.5	<0.01	0.1	0.31	2.0	<0.5	5	<0.2
162669	Drill Core	0.091	9	23	0.72	138	0.143	<20	0.95	0.053	0.25	3.8	<0.01	0.1	0.52	2.5	0.5	5	<0.2
162670	Drill Core	0.086	9	25	0.59	146	0.130	<20	0.85	0.059	0.25	1.0	<0.01	0.1	0.38	1.7	<0.5	4	0.9
162671	Drill Core	0.087	9	26	0.66	169	0.148	<20	0.94	0.061	0.26	3.9	<0.01	0.1	0.32	1.9	<0.5	4	0.3
162672	Drill Core	0.098	10	27	0.71	166	0.164	<20	1.00	0.061	0.27	4.5	<0.01	0.1	0.23	2.0	<0.5	5	<0.2
162673	Drill Core	0.100	10	26	0.73	150	0.156	<20	0.99	0.054	0.26	4.0	<0.01	0.1	0.43	2.4	1.0	5	0.5
162674	Drill Core	0.091	11	28	0.66	156	0.159	<20	0.93	0.066	0.24	2.1	<0.01	<0.1	0.16	1.8	<0.5	5	<0.2
162675	Drill Core	0.097	11	26	0.62	146	0.151	<20	0.89	0.065	0.22	2.4	<0.01	<0.1	0.23	1.8	<0.5	4	<0.2
162676	Drill Core	0.098	12	29	0.74	155	0.164	<20	0.99	0.072	0.24	3.4	<0.01	<0.1	0.21	2.1	<0.5	5	<0.2
162677	Drill Core	0.091	10	28	0.68	126	0.157	<20	0.99	0.064	0.23	5.0	<0.01	<0.1	0.33	2.0	<0.5	5	<0.2
162678	Drill Core	0.093	11	25	0.74	118	0.151	<20	1.07	0.056	0.20	25.9	<0.01	<0.1	0.69	2.5	0.8	5	<0.2
162679	Drill Core	0.096	11	24	0.72	99	0.134	<20	1.03	0.052	0.20	91.2	<0.01	<0.1	0.41	2.8	0.6	5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Ranex Exploration**
 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana
 Report Date: November 01, 2010

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

SMI10000683.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162680	Drill Core	6.66	<2	12.6	402.0	2.6	20	0.2	8.7	8.2	220	2.66	1.9	3.0	9.7	34	<0.1	0.2	0.2	70	0.98
162681	Drill Core	6.99	<2	5.1	168.7	2.5	20	<0.1	7.7	13.0	210	2.60	1.4	1.3	11.1	31	<0.1	0.1	<0.1	69	0.87
162682	Drill Core	7.02	<2	7.1	82.2	3.5	83	0.1	6.6	19.3	220	2.56	1.7	1.9	11.2	29	0.7	0.3	0.1	66	0.93
162683	Drill Core	6.98	<2	4.2	103.5	2.1	17	<0.1	7.3	7.4	184	2.45	1.3	0.7	10.9	30	<0.1	<0.1	<0.1	69	0.80
162684	Drill Core	7.23	<2	12.8	222.1	5.5	28	0.3	8.4	7.8	227	2.49	24.0	1.8	12.3	34	0.1	10.6	0.2	66	0.97
162685	Drill Core	7.04	<2	16.2	469.5	5.3	31	0.5	9.2	11.7	258	2.79	1.8	1.9	10.0	37	<0.1	0.3	0.4	70	1.03



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CERTIFICATE OF ANALYSIS

SMI10000683.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162680	Drill Core	0.100	11	28	0.72	140	0.175	<20	1.01	0.066	0.26	7.2	<0.01	0.1	0.28	2.0	<0.5	5	<0.2
162681	Drill Core	0.103	12	26	0.66	160	0.145	<20	0.88	0.066	0.24	2.6	<0.01	<0.1	0.17	2.0	<0.5	5	<0.2
162682	Drill Core	0.100	11	27	0.60	155	0.145	<20	0.86	0.069	0.23	2.0	<0.01	<0.1	0.30	1.6	<0.5	4	<0.2
162683	Drill Core	0.100	10	27	0.63	164	0.149	<20	0.85	0.072	0.26	3.7	<0.01	<0.1	0.15	1.7	<0.5	5	<0.2
162684	Drill Core	0.105	11	26	0.68	150	0.151	<20	0.92	0.059	0.23	4.4	0.03	<0.1	0.19	1.9	<0.5	5	<0.2
162685	Drill Core	0.106	13	29	0.81	166	0.167	<20	1.10	0.065	0.30	7.4	<0.01	0.1	0.52	2.6	1.0	6	0.3



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QUALITY CONTROL REPORT

SMI10000683.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
162670	Drill Core	6.55	7	5.9	545.0	7.9	28	1.3	7.2	10.2	203	2.51	2.4	7.6	10.7	52	0.2	0.2	0.8	59	0.90
REP 162670	QC			6.3	542.9	7.7	31	1.0	8.1	10.0	210	2.50	2.2	13.7	10.0	51	0.2	0.2	0.7	61	0.92
162679	Drill Core	6.64	2	40.0	605.0	3.0	26	0.6	8.1	10.3	222	2.74	13.4	3.9	8.9	38	0.2	4.1	0.2	60	1.13
REP 162679	QC		5																		
Core Reject Duplicates																					
162655	Drill Core	6.12	4	15.3	404.3	2.4	23	0.4	7.6	9.5	259	2.15	8.4	1.6	8.8	36	<0.1	0.3	0.2	52	1.00
DUP 162655	QC		4	9.2	406.8	2.5	23	0.4	7.8	9.9	275	2.22	8.7	8.6	9.0	36	<0.1	0.2	0.2	53	1.07
Reference Materials																					
STD DS7	Standard			20.2	108.1	71.7	384	1.1	54.1	9.5	610	2.34	50.5	374.5	4.6	71	6.8	4.3	4.9	82	0.97
STD DS7	Standard			21.0	108.0	82.1	442	1.0	56.4	9.1	645	2.39	57.2	57.3	5.3	93	6.1	5.4	5.1	86	1.04
STD OREAS45PA	Standard			0.9	592.0	20.6	124	0.3	290.6	106.5	1095	15.80	4.9	45.6	7.0	15	0.1	<0.1	0.2	218	0.24
STD OREAS45PA	Standard			1.0	630.7	22.8	132	0.3	317.8	109.4	1179	16.81	4.9	52.0	7.9	18	<0.1	0.2	0.2	238	0.24
STD OXC72	Standard		198																		
STD OXC72	Standard		195																		
STD OXC72	Standard		206																		
STD OXH66	Standard		1298																		
STD OXH66	Standard		1348																		
STD OXH66	Standard		1350																		
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	
STD OXH66 Expected		1285																			
STD OXC72 Expected		205																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		

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Project: Sultana
 Report Date: November 01, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000683.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																				
162670	Drill Core	0.086	9	25	0.59	146	0.130	<20	0.85	0.059	0.25	1.0	<0.01	0.1	0.38	1.7	<0.5	4	0.9	
REP 162670	QC	0.085	9	24	0.61	138	0.130	<20	0.87	0.057	0.26	1.0	<0.01	<0.1	0.38	1.7	<0.5	4	0.6	
162679	Drill Core	0.096	11	24	0.72	99	0.134	<20	1.03	0.052	0.20	91.2	<0.01	<0.1	0.41	2.8	0.6	5	<0.2	
REP 162679	QC																			
Core Reject Duplicates																				
162655	Drill Core	0.082	10	24	0.66	122	0.117	<20	0.83	0.056	0.18	61.6	<0.01	<0.1	0.31	2.4	0.7	4	<0.2	
DUP 162655	QC	0.085	10	24	0.69	118	0.118	<20	0.81	0.060	0.20	52.8	<0.01	<0.1	0.32	2.6	<0.5	4	<0.2	
Reference Materials																				
STD DS7	Standard	0.079	12	179	1.06	396	0.117	39	1.02	0.097	0.44	3.4	0.21	4.1	0.21	2.4	3.3	5	0.9	
STD DS7	Standard	0.080	14	210	1.10	405	0.125	41	1.10	0.106	0.46	2.4	0.22	4.1	0.21	2.6	3.0	5	0.6	
STD OREAS45PA	Standard	0.037	16	812	0.12	188	0.131	<20	3.40	0.006	0.08	<0.1	0.03	<0.1	<0.05	42.2	0.6	18	<0.2	
STD OREAS45PA	Standard	0.035	18	778	0.14	199	0.143	<20	3.90	0.006	0.08	<0.1	0.03	<0.1	<0.05	43.8	<0.5	18	<0.2	
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08	
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8		
STD OXH66 Expected																				
STD OXC72 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			

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Project: Sultana

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Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000683.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
BLK	Blank		<2																			
BLK	Blank		<2																			
Prep Wash																						
G1	Prep Blank		<2	8.0	23.4	3.4	48	<0.1	2.6	4.5	577	1.96	<0.5	1.0	6.0	67	<0.1	<0.1	<0.1	39	0.55	
G1	Prep Blank		<2	6.7	17.7	3.3	47	<0.1	2.7	4.2	549	1.88	<0.5	1.0	6.4	58	<0.1	<0.1	<0.1	39	0.53	



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QUALITY CONTROL REPORT

SMI10000683.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.088	13	9	0.57	179	0.133	<20	1.04	0.088	0.53	0.1	<0.01	0.3	<0.05	2.2	<0.5	5	<0.2
G1	Prep Blank	0.085	12	9	0.56	170	0.129	<20	0.95	0.080	0.50	<0.1	<0.01	0.3	<0.05	2.1	<0.5	5	<0.2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 18, 2010
Report Date: November 15, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000727.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 30

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	29	Crush split and pulverize 250g drill core to 200 mesh			SMI
1DX	30	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
3B	30	Fire assay fusion Au by ICP-ES	30	Completed	VAN

ADDITIONAL COMMENTS



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CERTIFICATE OF ANALYSIS

SMI10000727.1

Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
162701	Drill Core	6.64	21.0	228.2	1.8	20	0.2	8.0	10.7	205	2.36	1.2	1.3	8.0	23	<0.1	<0.1	<0.1	60	0.81	0.095
162702	Drill Core	6.52	5.4	678.7	1.9	20	0.6	8.8	9.4	204	2.48	1.3	<0.5	8.8	24	<0.1	<0.1	0.2	64	0.86	0.103
162703	Rock	2.33	0.4	10.2	3.5	7	<0.1	0.9	0.5	43	0.23	1.1	<0.5	12.2	6	<0.1	0.1	0.1	<2	0.08	0.003
162704	Drill Core	5.17	7.1	201.9	2.2	19	0.6	7.7	8.2	185	2.29	4.8	<0.5	8.9	24	<0.1	3.3	<0.1	59	0.89	0.098
162705	Drill Core	6.76	9.0	926.3	2.8	22	1.3	7.4	8.5	194	2.12	1.6	<0.5	10.5	25	0.1	0.1	0.7	46	0.75	0.076
162706	Drill Core	7.26	71.5	430.9	1.9	19	0.3	8.5	8.6	184	2.41	1.0	<0.5	9.4	27	<0.1	<0.1	0.3	62	0.69	0.103
162707	Drill Core	7.24	4.2	554.9	2.0	22	0.6	7.9	9.4	198	2.43	1.1	3.4	7.7	29	<0.1	<0.1	0.2	61	0.79	0.103
162708	Drill Core	5.66	10.2	185.3	1.9	20	0.1	7.2	7.9	194	2.28	1.0	<0.5	9.2	29	<0.1	<0.1	0.1	58	0.72	0.095
162709	Drill Core	6.73	7.4	302.6	3.3	40	0.6	7.9	9.4	284	2.46	2.3	<0.5	8.3	40	0.2	0.2	1.4	59	0.96	0.100
162710	Rock Pulp	0.08	205.7	9624	70.2	116	4.8	32.5	19.2	341	4.20	40.4	1224	9.4	51	2.5	10.4	3.1	51	1.40	0.063
162711	Drill Core	5.86	39.0	187.3	4.0	34	0.2	7.8	7.7	298	2.34	5.1	0.8	8.4	48	0.3	1.7	0.1	51	1.32	0.098
162712	Drill Core	7.18	9.7	410.7	2.4	19	0.6	7.7	7.5	212	2.19	2.3	1.9	7.7	29	<0.1	0.4	0.2	55	0.91	0.099
162713	Drill Core	6.97	13.2	174.0	2.7	22	0.2	8.0	8.9	235	2.28	6.2	<0.5	7.7	46	<0.1	3.2	<0.1	56	1.12	0.099
162714	Drill Core	11.22	14.4	471.0	3.0	26	0.5	8.2	10.6	291	2.28	15.5	0.7	9.1	47	<0.1	3.7	<0.1	51	1.37	0.095
162715	Drill Core	7.24	5.0	455.1	1.9	18	0.5	8.0	7.5	177	2.30	2.3	6.1	10.5	32	<0.1	<0.1	<0.1	58	0.77	0.101
162716	Drill Core	7.43	4.4	195.5	2.2	19	0.2	8.1	8.2	193	2.25	9.6	<0.5	7.8	29	<0.1	6.7	0.1	51	0.98	0.094
162717	Drill Core	7.47	48.2	386.1	2.4	27	0.5	8.1	7.6	214	2.41	30.6	<0.5	7.2	37	0.1	3.4	0.1	54	1.30	0.099
162718	Drill Core	5.86	65.0	850.2	5.5	40	0.9	8.0	9.2	315	2.60	85.5	2.3	7.6	53	0.3	33.6	0.4	43	1.89	0.096
162719	Drill Core	7.89	3.1	465.3	1.8	20	0.4	8.5	9.0	219	2.27	6.1	<0.5	8.1	33	<0.1	1.8	0.2	53	0.98	0.097
162720	Drill Core	6.99	4.8	379.6	1.7	20	0.3	9.2	9.5	228	2.28	4.5	<0.5	8.2	36	<0.1	2.1	0.1	53	1.00	0.096
162721	Drill Core	7.20	4.4	475.8	2.1	18	0.4	7.7	8.5	194	2.29	3.2	<0.5	8.6	26	<0.1	0.8	0.1	55	0.90	0.095
162722	Drill Core	6.72	11.1	3439	6.9	49	9.6	8.2	8.3	302	2.66	839.4	12.2	7.6	29	0.5	1.9	4.8	42	1.31	0.077
162723	Drill Core	7.39	3.3	456.6	2.8	23	0.7	8.1	8.2	202	2.30	21.5	4.0	9.5	21	<0.1	8.3	0.9	49	0.96	0.078
162724	Drill Core	6.34	11.4	191.0	1.7	20	0.2	8.3	9.1	202	2.54	1.6	2.0	10.9	19	<0.1	<0.1	0.9	54	0.77	0.083
162725	Drill Core	7.29	3.4	465.3	1.6	18	0.6	7.7	7.3	184	2.54	1.0	1.0	9.4	20	<0.1	<0.1	0.2	54	0.82	0.087
162726	Drill Core	6.87	6.3	79.9	1.7	21	<0.1	7.7	7.2	226	2.48	4.3	1.1	10.3	27	<0.1	0.2	0.3	53	1.07	0.091
162727	Drill Core	6.05	2.9	239.9	1.8	21	0.3	8.7	8.2	223	2.53	1.2	2.1	10.2	22	<0.1	<0.1	0.5	57	0.89	0.091
162728	Drill Core	6.77	1.1	244.3	1.7	16	0.4	7.9	7.5	179	2.33	1.1	<0.5	8.5	19	<0.1	<0.1	0.1	57	0.80	0.091
162729	Drill Core	6.92	3.8	318.3	2.2	17	0.3	8.3	7.9	184	2.44	1.6	0.6	8.7	18	<0.1	0.3	0.2	57	0.80	0.094
162730	Rock	1.91	0.3	10.2	3.4	7	<0.1	0.7	0.4	42	0.23	1.1	0.9	13.8	6	<0.1	<0.1	0.4	<2	0.09	0.002

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Project: Sultana
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

SMI10000727.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	3B	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Au	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	2	
162701	Drill Core	10	25	0.63	169	0.145	<20	0.82	0.058	0.32	9.6	<0.01	0.2	0.22	1.9	0.5	4	<0.2	<2
162702	Drill Core	10	28	0.66	155	0.148	<20	0.86	0.066	0.31	6.8	<0.01	0.2	0.23	2.1	<0.5	5	<0.2	<2
162703	Rock	3	7	0.02	13	0.005	<20	0.27	0.049	0.14	4.0	<0.01	<0.1	<0.05	0.6	<0.5	2	<0.2	<2
162704	Drill Core	10	25	0.56	139	0.139	<20	0.81	0.061	0.25	6.7	0.02	0.1	0.10	1.3	<0.5	4	<0.2	<2
162705	Drill Core	9	21	0.49	120	0.100	<20	0.65	0.054	0.26	11.1	<0.01	0.1	0.35	1.5	0.7	3	<0.2	24
162706	Drill Core	10	27	0.60	194	0.158	<20	0.78	0.064	0.31	32.8	<0.01	0.2	0.13	1.5	0.7	4	<0.2	<2
162707	Drill Core	10	26	0.64	214	0.152	<20	0.83	0.059	0.27	2.3	<0.01	0.1	0.25	1.8	0.8	5	<0.2	<2
162708	Drill Core	9	24	0.57	158	0.142	<20	0.77	0.062	0.28	3.2	<0.01	0.2	0.11	1.5	<0.5	4	<0.2	<2
162709	Drill Core	10	24	0.63	181	0.122	<20	0.87	0.056	0.28	2.0	<0.01	0.2	0.27	2.0	<0.5	4	<0.2	3
162710	Rock Pulp	18	60	0.79	82	0.031	<20	1.20	0.031	0.47	2.8	0.21	0.3	2.29	4.4	4.2	4	0.3	1554
162711	Drill Core	12	21	0.56	95	0.076	<20	0.86	0.048	0.22	0.5	<0.01	<0.1	0.07	2.5	<0.5	4	<0.2	<2
162712	Drill Core	10	23	0.60	143	0.118	<20	0.78	0.052	0.21	4.9	<0.01	<0.1	0.12	1.7	<0.5	4	<0.2	<2
162713	Drill Core	11	24	0.66	487	0.109	<20	0.85	0.054	0.18	1.6	<0.01	<0.1	0.09	1.8	<0.5	4	<0.2	<2
162714	Drill Core	13	21	0.58	333	0.101	<20	0.81	0.051	0.23	4.1	0.02	0.1	0.20	2.6	<0.5	4	0.3	<2
162715	Drill Core	10	24	0.60	188	0.127	<20	0.79	0.060	0.22	0.9	<0.01	<0.1	0.09	1.4	<0.5	4	<0.2	<2
162716	Drill Core	9	22	0.64	166	0.131	<20	0.82	0.051	0.16	2.1	<0.01	<0.1	0.21	1.9	<0.5	4	<0.2	<2
162717	Drill Core	11	23	0.61	130	0.112	<20	0.78	0.048	0.19	1.3	0.03	<0.1	0.18	2.3	<0.5	4	<0.2	<2
162718	Drill Core	14	18	0.73	107	0.057	<20	0.83	0.043	0.21	2.0	0.15	0.1	0.32	3.7	0.6	4	0.3	<2
162719	Drill Core	10	24	0.69	157	0.117	<20	0.82	0.052	0.22	7.3	<0.01	0.1	0.20	2.2	<0.5	4	<0.2	19
162720	Drill Core	10	23	0.71	176	0.120	<20	0.85	0.053	0.23	5.6	0.01	0.1	0.21	2.2	<0.5	5	<0.2	4
162721	Drill Core	10	23	0.62	130	0.130	<20	0.83	0.053	0.23	25.0	<0.01	<0.1	0.19	1.8	<0.5	4	<0.2	<2
162722	Drill Core	8	20	0.63	134	0.082	<20	0.84	0.043	0.23	4.2	0.06	0.1	0.63	2.5	0.9	4	2.7	11
162723	Drill Core	10	21	0.61	109	0.101	<20	0.82	0.049	0.21	15.2	0.02	0.1	0.47	2.5	<0.5	4	0.3	5
162724	Drill Core	8	23	0.71	165	0.143	<20	0.93	0.056	0.30	4.1	<0.01	0.2	0.47	2.5	<0.5	5	0.2	<2
162725	Drill Core	8	25	0.63	179	0.131	<20	0.79	0.058	0.27	3.1	<0.01	0.2	0.28	2.0	<0.5	5	<0.2	<2
162726	Drill Core	9	23	0.60	232	0.101	<20	0.73	0.054	0.23	1.0	<0.01	0.1	0.18	2.3	<0.5	4	<0.2	<2
162727	Drill Core	10	26	0.77	171	0.135	<20	0.91	0.056	0.27	4.3	<0.01	0.1	0.55	2.4	<0.5	5	0.2	<2
162728	Drill Core	10	16	0.63	142	0.127	<20	0.83	0.052	0.23	2.0	<0.01	0.1	0.23	1.7	<0.5	5	<0.2	<2
162729	Drill Core	9	24	0.60	151	0.134	<20	0.79	0.056	0.25	1.8	<0.01	0.1	0.28	1.6	<0.5	5	<0.2	<2
162730	Rock	3	8	0.02	12	0.005	<20	0.31	0.053	0.12	1.0	<0.01	<0.1	<0.05	0.9	<0.5	2	<0.2	<2

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Project: Sultana

Report Date: November 15, 2010

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QUALITY CONTROL REPORT

SMI10000727.1

Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
162702	Drill Core	6.52	5.4	678.7	1.9	20	0.6	8.8	9.4	204	2.48	1.3	<0.5	8.8	24	<0.1	<0.1	0.2	64	0.86	0.103
REP 162702	QC		4.9	643.4	1.7	21	0.6	7.5	8.7	196	2.37	1.3	1.6	8.1	23	<0.1	<0.1	0.2	60	0.81	0.099
162712	Drill Core	7.18	9.7	410.7	2.4	19	0.6	7.7	7.5	212	2.19	2.3	1.9	7.7	29	<0.1	0.4	0.2	55	0.91	0.099
REP 162712	QC																				
162729	Drill Core	6.92	3.8	318.3	2.2	17	0.3	8.3	7.9	184	2.44	1.6	0.6	8.7	18	<0.1	0.3	0.2	57	0.80	0.094
REP 162729	QC		5.3	312.4	2.2	18	0.2	8.2	7.8	177	2.37	1.5	1.1	8.5	19	<0.1	0.2	0.2	57	0.78	0.096
Core Reject Duplicates																					
162724	Drill Core	6.34	11.4	191.0	1.7	20	0.2	8.3	9.1	202	2.54	1.6	2.0	10.9	19	<0.1	<0.1	0.9	54	0.77	0.083
DUP 162724	QC		12.9	189.0	1.7	20	0.2	8.3	9.2	200	2.53	1.1	1.9	10.7	18	<0.1	<0.1	1.7	56	0.75	0.085
Reference Materials																					
STD DS7	Standard		21.0	99.2	66.6	388	1.3	55.2	9.0	624	2.38	49.6	282.9	4.5	68	6.1	3.3	4.4	77	0.96	0.076
STD DS7	Standard		22.0	109.8	67.0	399	1.0	56.8	9.4	619	2.43	56.2	60.0	4.6	70	6.0	4.2	4.5	83	0.96	0.074
STD OREAS45PA	Standard		0.8	578.2	18.1	110	0.3	270.1	103.5	1119	15.89	3.7	51.1	6.5	12	0.1	<0.1	0.2	224	0.23	0.032
STD OREAS45PA	Standard		1.0	618.3	21.6	123	0.3	301.8	116.1	1140	16.87	4.8	62.9	7.6	14	<0.1	0.1	0.2	226	0.26	0.031
STD OXC72	Standard																				
STD OXC72	Standard																				
STD OXH66	Standard																				
STD OXH66	Standard																				
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
STD OXH66 Expected																					
STD OXC72 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
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 Report Date: November 15, 2010

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QUALITY CONTROL REPORT

SMI10000727.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Tl	1DX S	1DX Sc	1DX Se	1DX Ga	1DX Te	3B Au	
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	2	
Pulp Duplicates																						
162702	Drill Core			10	28	0.66	155	0.148	<20	0.86	0.066	0.31	6.8	<0.01	0.2	0.23	2.1	<0.5	5	<0.2	<2	
REP 162702	QC			10	27	0.63	148	0.140	<20	0.80	0.060	0.29	7.0	<0.01	0.1	0.22	1.9	<0.5	4	<0.2		
162712	Drill Core			10	23	0.60	143	0.118	<20	0.78	0.052	0.21	4.9	<0.01	<0.1	0.12	1.7	<0.5	4	<0.2	<2	
REP 162712	QC																				<2	
162729	Drill Core			9	24	0.60	151	0.134	<20	0.79	0.056	0.25	1.8	<0.01	0.1	0.28	1.6	<0.5	5	<0.2	<2	
REP 162729	QC			9	24	0.57	146	0.133	<20	0.81	0.056	0.25	1.7	<0.01	0.1	0.30	1.7	<0.5	4	<0.2		
Core Reject Duplicates																						
162724	Drill Core			8	23	0.71	165	0.143	<20	0.93	0.056	0.30	4.1	<0.01	0.2	0.47	2.5	<0.5	5	0.2	<2	
DUP 162724	QC			7	24	0.73	163	0.142	<20	0.86	0.051	0.29	3.4	<0.01	0.2	0.48	2.5	<0.5	5	1.1	<2	
Reference Materials																						
STD DS7	Standard			12	200	1.06	415	0.111	38	1.03	0.100	0.46	3.0	0.22	4.2	0.20	2.4	2.9	4	1.7		
STD DS7	Standard			13	209	1.05	412	0.123	36	1.04	0.095	0.48	3.0	0.20	4.1	0.20	2.3	3.9	4	1.1		
STD OREAS45PA	Standard			15	876	0.09	168	0.117	<20	3.41	0.007	0.07	<0.1	0.03	<0.1	<0.05	41.9	0.9	17	<0.2		
STD OREAS45PA	Standard			17	959	0.10	189	0.138	<20	3.48	0.006	0.08	<0.1	0.03	<0.1	<0.05	44.8	<0.5	18	<0.2		
STD OXC72	Standard																				201	
STD OXC72	Standard																					206
STD OXH66	Standard																					1277
STD OXH66	Standard																					1290
STD DS7 Expected				12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08		
STD OREAS45PA Expected				16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8			
STD OXH66 Expected																						1285
STD OXC72 Expected																						205
BLK	Blank			<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank			<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank																					<2
BLK	Blank																					<2
BLK	Blank																					<2
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QUALITY CONTROL REPORT

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		WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Prep Wash																					
G1	Prep Blank		0.3	3.0	3.2	47	<0.1	3.7	4.6	613	2.11	0.7	<0.5	7.4	59	<0.1	<0.1	<0.1	40	0.57	0.085
G1	Prep Blank		0.3	3.3	3.0	48	<0.1	3.1	4.6	608	2.10	<0.5	<0.5	8.5	56	<0.1	<0.1	<0.1	42	0.56	0.086



Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Ranex Exploration**
 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana

Report Date: November 15, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000727.1

		1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm	3B Au ppb
Prep Wash		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	2
G1	Prep Blank	13	9	0.61	194	0.150	<20	1.08	0.095	0.61	0.3	<0.01	0.3	<0.05	2.0	<0.5	5	<0.2	<2
G1	Prep Blank	15	10	0.58	186	0.149	<20	1.03	0.090	0.58	0.4	<0.01	0.3	<0.05	1.9	<0.5	5	<0.2	<2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 18, 2010
Report Date: November 15, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI10000728.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 35

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	34	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B	35	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	35	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

SMI10000728.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162686	Drill Core	6.97	<2	5.3	72.9	2.3	18	<0.1	8.2	7.3	227	2.33	3.6	1.4	9.7	36	<0.1	0.7	<0.1	55	1.07
162687	Drill Core	7.15	<2	4.7	455.5	1.9	17	0.4	7.6	10.2	167	2.18	0.9	0.9	8.2	22	<0.1	<0.1	<0.1	55	0.73
162688	Drill Core	7.32	3	15.2	111.5	2.0	16	0.1	7.9	8.2	176	2.18	0.8	1.1	9.0	26	<0.1	<0.1	<0.1	57	0.70
162689	Drill Core	7.11	<2	59.9	119.0	1.7	15	<0.1	7.3	7.6	167	2.21	0.8	0.7	10.0	26	<0.1	0.1	<0.1	59	0.64
162690	Drill Core	6.60	3	13.7	933.1	3.9	30	1.3	8.2	13.4	203	2.41	29.1	5.1	9.6	27	0.3	31.7	0.4	55	0.84
162691	Drill Core	7.39	5	10.0	30.8	2.0	17	<0.1	7.7	7.2	176	2.17	5.3	1.8	8.0	28	<0.1	0.1	0.4	55	0.83
162692	Drill Core	7.20	<2	3.0	75.8	1.7	15	<0.1	8.1	8.0	173	2.19	0.7	1.1	8.0	29	<0.1	0.2	<0.1	60	0.68
162693	Drill Core	6.70	<2	6.4	91.2	1.9	16	<0.1	7.5	9.3	203	2.20	3.0	1.1	8.2	50	<0.1	1.3	0.1	51	1.05
162694	Drill Core	6.80	<2	3.6	101.0	2.0	17	<0.1	8.8	8.6	185	2.34	0.9	0.6	8.0	36	<0.1	0.3	0.2	60	0.90
162695	Drill Core	7.18	<2	7.5	183.3	1.7	19	0.2	8.2	11.2	187	2.30	0.8	5.1	8.9	35	<0.1	<0.1	0.1	57	0.79
162696	Drill Core	7.22	<2	23.0	304.6	1.9	19	0.3	8.8	10.9	195	2.45	0.8	1.4	9.0	46	<0.1	<0.1	0.1	64	0.87
162697	Drill Core	6.89	<2	13.1	189.9	1.9	17	0.1	7.7	7.8	171	2.29	0.7	1.2	8.0	32	<0.1	<0.1	<0.1	62	0.75
162698	Drill Core	6.97	<2	4.0	164.1	1.7	21	0.4	8.2	11.9	220	2.37	13.9	<0.5	10.2	33	0.2	1.5	0.2	53	1.21
162699	Drill Core	6.89	<2	6.2	236.9	1.7	19	0.1	8.7	14.0	195	2.32	1.1	0.9	9.4	29	<0.1	0.1	0.1	58	0.75
162700	Drill Core	7.20	<2	14.7	123.5	1.8	16	<0.1	7.4	8.6	178	2.28	1.1	<0.5	10.5	24	<0.1	0.1	0.1	60	0.75
162731	Drill Core	7.29	<2	2.1	165.7	1.9	17	0.2	8.6	7.6	173	2.36	2.3	<0.5	8.6	20	<0.1	0.3	0.1	58	0.82
162732	Drill Core	6.98	5	3.3	559.7	1.8	21	0.7	8.8	9.0	200	2.52	2.1	2.2	9.9	26	0.1	<0.1	1.2	56	1.20
162733	Drill Core	7.46	4	22.6	327.2	3.3	21	0.5	9.8	14.4	198	2.64	5.2	1.7	8.4	25	<0.1	0.2	0.3	61	1.00
162734	Drill Core	7.41	<2	27.5	198.8	2.2	21	0.2	9.9	10.6	185	2.60	1.0	<0.5	9.4	21	<0.1	<0.1	0.2	66	0.88
162735	Drill Core	7.15	<2	18.6	264.2	1.6	17	0.3	8.9	8.5	184	2.43	1.0	<0.5	9.7	25	<0.1	<0.1	0.1	61	0.83
162736	Drill Core	6.48	<2	43.0	86.4	2.0	17	0.1	8.6	7.3	172	2.29	1.0	<0.5	10.7	23	<0.1	<0.1	0.1	62	0.72
162737	Drill Core	7.16	<2	13.1	310.0	1.9	20	0.3	8.4	8.8	195	2.45	2.3	1.1	10.7	25	<0.1	1.7	0.9	59	0.89
162738	Drill Core	7.01	<2	22.6	112.3	1.8	17	<0.1	8.8	8.7	178	2.39	1.1	<0.5	9.3	20	<0.1	<0.1	<0.1	62	0.85
162739	Drill Core	6.96	<2	6.4	139.1	1.7	19	0.1	8.0	8.1	173	2.38	0.8	<0.5	8.4	20	<0.1	<0.1	0.1	64	0.79
162740	Rock Pulp	0.10	1406	214.5	9625	69.2	115	4.9	32.7	19.4	333	4.11	40.9	2129	9.2	52	2.2	10.6	3.2	49	1.38
162741	Drill Core	7.38	<2	4.7	231.7	2.0	20	0.3	9.5	11.0	191	2.51	6.8	1.9	7.7	20	<0.1	5.3	0.3	62	0.90
162742	Drill Core	6.93	<2	37.5	230.9	2.5	19	0.3	9.3	8.6	187	2.48	1.4	1.9	8.2	25	<0.1	0.2	0.3	66	0.96
162743	Drill Core	6.53	<2	11.2	134.7	2.4	20	0.1	8.5	8.8	200	2.43	1.9	<0.5	7.9	29	<0.1	0.3	0.2	62	1.09
162744	Drill Core	7.41	3	57.3	372.7	1.9	22	0.4	9.7	9.0	204	2.46	2.1	1.8	8.1	27	<0.1	0.2	0.7	63	0.93
162745	Drill Core	6.95	4	186.5	558.9	2.2	28	0.6	8.8	8.2	172	2.47	1.7	2.2	8.4	24	<0.1	0.2	0.2	61	0.80

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Project: None Given
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

SMI10000728.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162686	Drill Core	0.094	11	22	0.59	124	0.103	<20	0.74	0.049	0.21	1.2	<0.01	<0.1	0.07	2.3	<0.5	4	<0.2
162687	Drill Core	0.095	10	22	0.58	129	0.137	<20	0.77	0.056	0.23	20.7	<0.01	0.1	0.22	1.6	<0.5	5	<0.2
162688	Drill Core	0.095	10	23	0.58	153	0.144	<20	0.77	0.059	0.26	3.9	<0.01	0.1	0.18	1.5	<0.5	5	<0.2
162689	Drill Core	0.092	10	23	0.56	211	0.144	<20	0.77	0.061	0.28	1.5	<0.01	0.2	0.06	1.3	<0.5	5	<0.2
162690	Drill Core	0.089	9	23	0.63	148	0.131	<20	0.79	0.049	0.28	1.2	0.07	0.2	0.52	2.1	0.9	4	<0.2
162691	Drill Core	0.090	10	21	0.55	169	0.131	<20	0.72	0.056	0.24	2.0	<0.01	0.1	0.22	1.3	<0.5	4	0.3
162692	Drill Core	0.094	10	24	0.58	170	0.141	<20	0.80	0.063	0.25	1.6	<0.01	0.1	0.06	1.3	<0.5	5	<0.2
162693	Drill Core	0.092	10	21	0.57	118	0.110	<20	0.78	0.045	0.21	2.2	0.01	<0.1	0.21	1.9	<0.5	4	<0.2
162694	Drill Core	0.096	11	24	0.62	169	0.125	<20	0.83	0.060	0.24	3.9	<0.01	0.1	0.14	1.8	0.6	4	<0.2
162695	Drill Core	0.095	9	22	0.62	170	0.135	<20	0.83	0.060	0.26	2.5	<0.01	0.2	0.27	1.8	1.1	4	<0.2
162696	Drill Core	0.099	15	25	0.70	183	0.140	<20	0.88	0.062	0.27	>100	<0.01	0.1	0.22	2.1	1.0	5	<0.2
162697	Drill Core	0.102	10	24	0.61	169	0.144	<20	0.79	0.063	0.26	2.4	<0.01	0.1	0.10	1.3	0.6	4	<0.2
162698	Drill Core	0.089	10	22	0.57	188	0.106	<20	0.79	0.052	0.22	4.5	<0.01	0.1	0.35	2.0	0.8	4	<0.2
162699	Drill Core	0.093	10	23	0.68	259	0.143	<20	0.83	0.059	0.30	18.2	<0.01	0.2	0.33	2.2	1.0	4	<0.2
162700	Drill Core	0.095	10	24	0.60	159	0.141	<20	0.81	0.069	0.26	1.7	<0.01	0.1	0.12	1.6	<0.5	5	<0.2
162731	Drill Core	0.092	9	23	0.64	162	0.149	<20	0.84	0.057	0.26	1.3	<0.01	0.1	0.18	1.5	<0.5	5	<0.2
162732	Drill Core	0.096	10	24	0.72	153	0.135	<20	0.90	0.046	0.24	2.3	<0.01	0.1	0.45	2.4	0.6	5	0.3
162733	Drill Core	0.096	10	22	0.74	162	0.152	<20	0.93	0.059	0.27	4.0	<0.01	0.2	0.47	2.3	0.7	5	<0.2
162734	Drill Core	0.096	10	26	0.73	175	0.171	<20	0.95	0.066	0.30	4.0	<0.01	0.2	0.32	2.0	0.6	6	<0.2
162735	Drill Core	0.092	10	25	0.65	167	0.150	<20	0.87	0.067	0.27	3.8	<0.01	0.1	0.23	1.7	<0.5	5	<0.2
162736	Drill Core	0.093	10	24	0.62	170	0.155	<20	0.82	0.068	0.28	0.9	<0.01	0.1	0.10	1.5	<0.5	5	<0.2
162737	Drill Core	0.095	11	24	0.67	146	0.142	<20	0.87	0.060	0.24	4.2	<0.01	0.1	0.51	2.1	0.5	5	0.3
162738	Drill Core	0.095	10	24	0.60	146	0.146	<20	0.83	0.066	0.22	1.0	<0.01	0.1	0.16	1.4	<0.5	5	<0.2
162739	Drill Core	0.095	10	14	0.64	170	0.163	<20	0.84	0.067	0.29	2.2	<0.01	0.2	0.22	1.5	<0.5	5	<0.2
162740	Rock Pulp	0.063	18	59	0.77	121	0.030	<20	1.19	0.032	0.45	3.0	0.16	0.3	2.34	4.3	5.5	4	0.4
162741	Drill Core	0.094	10	25	0.71	166	0.159	<20	0.87	0.059	0.28	6.8	<0.01	0.1	0.53	2.1	0.8	5	<0.2
162742	Drill Core	0.097	9	25	0.72	151	0.159	<20	0.90	0.056	0.28	3.5	<0.01	0.1	0.39	2.2	0.8	5	<0.2
162743	Drill Core	0.094	10	25	0.68	110	0.135	<20	0.87	0.063	0.20	1.1	<0.01	<0.1	0.33	2.3	<0.5	5	<0.2
162744	Drill Core	0.097	10	27	0.74	223	0.157	<20	0.88	0.062	0.31	4.3	<0.01	0.2	0.48	2.6	0.6	5	<0.2
162745	Drill Core	0.098	10	26	0.63	171	0.156	<20	0.86	0.065	0.31	5.3	<0.01	0.2	0.39	1.5	0.7	5	<0.2

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Project: None Given
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

SMI10000728.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162746	Drill Core	7.54	<2	6.4	161.1	1.6	18	0.1	8.3	8.3	181	2.43	1.1	1.3	9.8	25	<0.1	0.1	0.4	63	0.72
162747	Drill Core	6.66	2	20.8	460.7	1.9	17	0.5	8.1	7.8	165	2.24	0.7	<0.5	11.3	21	<0.1	0.1	0.3	56	0.66
162748	Drill Core	7.29	<2	7.9	115.3	1.5	16	0.1	7.5	6.8	181	2.24	0.8	<0.5	11.7	25	<0.1	0.1	<0.1	58	0.77
162749	Drill Core	7.42	<2	9.3	87.3	1.7	18	0.1	7.9	7.2	201	2.25	1.2	<0.5	10.9	27	<0.1	0.2	0.2	55	0.89
162750	Drill Core	6.58	2	8.0	227.0	1.6	23	0.2	7.9	8.5	278	2.31	12.2	1.2	9.2	54	<0.1	4.9	0.8	45	1.57



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CERTIFICATE OF ANALYSIS

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162746	Drill Core	0.094	10	26	0.67	174	0.161	<20	0.88	0.066	0.31	1.5	<0.01	0.2	0.37	1.9	<0.5	5	<0.2
162747	Drill Core	0.086	9	22	0.59	159	0.129	<20	0.76	0.058	0.25	6.1	<0.01	0.1	0.37	1.6	1.1	4	<0.2
162748	Drill Core	0.088	11	24	0.54	138	0.128	<20	0.77	0.068	0.23	1.5	<0.01	0.1	0.11	1.6	<0.5	4	<0.2
162749	Drill Core	0.089	10	23	0.60	132	0.115	<20	0.79	0.066	0.23	6.5	<0.01	0.1	0.21	2.1	<0.5	4	<0.2
162750	Drill Core	0.086	11	18	0.68	282	0.071	<20	0.69	0.051	0.25	1.3	0.03	0.1	0.38	3.5	<0.5	4	0.3



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QUALITY CONTROL REPORT

SMI10000728.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
162732	Drill Core	6.98	5	3.3	559.7	1.8	21	0.7	8.8	9.0	200	2.52	2.1	2.2	9.9	26	0.1	<0.1	1.2	56	1.20
REP 162732	QC			5.3	554.8	1.8	23	0.9	9.3	9.1	197	2.51	2.2	3.8	8.6	27	0.1	<0.1	1.0	56	1.20
162739	Drill Core	6.96	<2	6.4	139.1	1.7	19	0.1	8.0	8.1	173	2.38	0.8	<0.5	8.4	20	<0.1	<0.1	0.1	64	0.79
REP 162739	QC		<2																		
Core Reject Duplicates																					
162745	Drill Core	6.95	4	186.5	558.9	2.2	28	0.6	8.8	8.2	172	2.47	1.7	2.2	8.4	24	<0.1	0.2	0.2	61	0.80
DUP 162745	QC		3	213.5	625.8	2.1	29	0.6	8.8	8.3	175	2.49	1.7	3.0	8.8	25	<0.1	0.2	0.2	62	0.81
Reference Materials																					
STD DS7	Standard			21.6	107.1	69.2	410	1.0	55.5	9.5	621	2.37	49.9	57.0	4.4	69	6.2	4.6	4.8	79	0.92
STD DS7	Standard			20.5	106.5	65.8	389	1.1	54.8	9.5	614	2.35	51.5	54.7	4.2	71	6.2	4.5	4.6	81	0.94
STD OREAS45PA	Standard			0.7	576.9	19.6	121	0.3	283.4	106.1	1104	16.86	4.3	53.1	7.0	14	<0.1	0.1	0.2	226	0.25
STD OREAS45PA	Standard			1.1	608.3	19.7	119	0.3	302.8	110.6	1138	16.54	5.0	48.6	7.2	14	0.1	0.1	0.2	221	0.24
STD OXC72	Standard			193																	
STD OXC72	Standard			200																	
STD OXC72	Standard			192																	
STD OXH66	Standard			1255																	
STD OXH66	Standard			1248																	
STD OXH66	Standard			1274																	
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411
STD OXH66 Expected				1285																	
STD OXC72 Expected				205																	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<2																	
BLK	Blank			<2																	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<2																	
BLK	Blank			<2																	

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 Box 4200
 Smithers BC V0J 2N0 Canada

Project: None Given
 Report Date: November 15, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000728.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																				
162732	Drill Core	0.096	10	24	0.72	153	0.135	<20	0.90	0.046	0.24	2.3	<0.01	0.1	0.45	2.4	0.6	5	0.3	
REP 162732	QC	0.095	10	24	0.71	155	0.134	<20	0.91	0.046	0.24	2.3	<0.01	0.1	0.45	2.5	0.6	5	0.4	
162739	Drill Core	0.095	10	14	0.64	170	0.163	<20	0.84	0.067	0.29	2.2	<0.01	0.2	0.22	1.5	<0.5	5	<0.2	
REP 162739	QC																			
Core Reject Duplicates																				
162745	Drill Core	0.098	10	26	0.63	171	0.156	<20	0.86	0.065	0.31	5.3	<0.01	0.2	0.39	1.5	0.7	5	<0.2	
DUP 162745	QC	0.103	10	26	0.66	179	0.159	<20	0.87	0.066	0.32	8.5	<0.01	0.2	0.39	1.6	0.8	5	<0.2	
Reference Materials																				
STD DS7	Standard	0.077	12	201	1.05	405	0.117	38	0.98	0.088	0.45	3.4	0.23	4.0	0.20	2.3	2.6	4	2.0	
STD DS7	Standard	0.072	12	195	1.04	407	0.115	34	1.01	0.097	0.47	3.3	0.23	4.0	0.20	2.3	3.3	5	1.9	
STD OREAS45PA	Standard	0.036	17	826	0.11	184	0.138	<20	3.11	0.005	0.07	<0.1	0.03	<0.1	<0.05	42.9	0.6	17	<0.2	
STD OREAS45PA	Standard	0.033	17	829	0.10	195	0.135	<20	3.39	0.007	0.08	<0.1	0.03	<0.1	<0.05	42.4	0.7	17	<0.2	
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08	
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8		
STD OXH66 Expected																				
STD OXC72 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			
BLK	Blank																			

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 Box 4200
 Smithers BC V0J 2N0 Canada

Project: None Given

Report Date: November 15, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000728.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
BLK	Blank		<2																			
BLK	Blank		<2																			
Prep Wash																						
G1	Prep Blank		<2	0.5	5.2	2.8	42	<0.1	2.5	4.0	533	1.70	<0.5	<0.5	5.7	43	<0.1	<0.1	<0.1	34	0.44	
G1	Prep Blank		<2	0.5	7.0	3.0	43	<0.1	2.9	3.9	524	1.81	<0.5	<0.5	6.6	53	<0.1	<0.1	<0.1	36	0.46	



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QUALITY CONTROL REPORT

SMI10000728.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.077	9	7	0.54	156	0.118	<20	0.80	0.053	0.49	<0.1	<0.01	0.3	<0.05	1.7	<0.5	5	<0.2
G1	Prep Blank	0.076	12	9	0.50	160	0.126	<20	0.87	0.078	0.49	<0.1	<0.01	0.3	<0.05	1.8	<0.5	5	<0.2



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Box 4200
Smithers BC V0J 2N0 Canada

Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 21, 2010
Report Date: November 14, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000746.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	20	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	20	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	20	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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Project: None Given
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CERTIFICATE OF ANALYSIS

SMI10000746.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162856	Drill Core	7.62	2	11.5	705.4	2.2	22	1.0	9.8	20.9	204	2.70	2.1	14.3	10.7	35	<0.1	0.5	0.3	64	0.78
162857	Drill Core	7.60	<2	50.3	219.2	2.0	19	0.2	8.2	10.1	187	2.39	0.8	1.5	10.5	24	<0.1	<0.1	0.2	61	0.71
162858	Drill Core	7.68	3	59.7	434.1	2.3	22	0.5	8.8	11.0	209	2.51	1.1	1.5	9.1	34	<0.1	<0.1	0.1	63	0.88
162859	Drill Core	7.49	<2	6.9	130.7	2.3	20	0.1	8.5	8.5	179	2.33	0.9	1.3	9.6	23	<0.1	<0.1	<0.1	61	0.77
162860	Drill Core	6.90	<2	6.9	141.9	2.2	20	<0.1	8.6	9.0	177	2.32	0.9	<0.5	9.0	21	<0.1	<0.1	<0.1	61	0.75
162861	Drill Core	7.50	7	4.6	518.0	84.1	50	6.8	7.8	8.6	204	2.43	87.0	5.8	7.8	34	0.5	84.4	0.3	56	0.91
162862	Drill Core	7.44	<2	4.4	296.8	4.0	36	2.0	7.6	10.5	341	2.36	30.9	2.5	7.9	73	0.4	30.5	<0.1	42	1.75
162863	Drill Core	7.28	<2	3.3	84.3	2.6	23	0.1	8.0	9.1	239	2.34	1.4	<0.5	10.0	34	<0.1	0.3	<0.1	60	0.93
162864	Drill Core	6.98	<2	3.9	265.6	1.9	26	0.2	8.3	9.4	227	2.31	6.5	1.0	10.3	29	<0.1	2.3	<0.1	60	0.78
162865	Drill Core	6.52	7	61.3	888.0	2.0	21	0.6	9.0	8.8	213	2.50	2.0	1.8	10.9	29	<0.1	0.2	0.2	59	0.88
162866	Drill Core	7.05	4	3.3	433.4	3.3	18	0.2	8.3	9.9	199	2.35	2.7	3.2	9.3	33	<0.1	0.3	0.1	53	1.00
162867	Drill Core	6.91	2	16.6	947.5	17.9	30	1.3	8.5	9.4	224	2.52	81.5	2.9	8.7	42	0.2	6.8	0.1	58	1.13
162868	Drill Core	7.04	<2	3.3	334.8	3.0	24	0.2	7.7	10.3	272	2.43	29.3	0.7	9.5	49	0.1	6.8	0.1	50	1.48
162869	Drill Core	7.04	<2	4.5	380.4	1.9	16	0.5	8.0	8.2	187	2.31	1.7	1.0	7.8	35	<0.1	0.2	<0.1	55	0.96
162870	Drill Core	7.51	2	6.5	599.4	2.0	20	0.9	8.5	9.6	189	2.42	2.4	1.8	8.1	32	<0.1	0.3	0.2	57	0.95
162871	Drill Core	7.43	<2	136.8	332.1	1.8	19	0.2	8.9	13.2	184	2.48	1.6	<0.5	9.2	27	<0.1	<0.1	0.1	60	0.84
162872	Drill Core	7.36	<2	107.3	197.6	1.8	15	0.2	5.1	7.6	146	1.61	4.4	1.8	15.0	36	<0.1	0.2	0.1	31	0.90
162873	Drill Core	6.56	<2	4.9	327.1	4.1	26	0.7	7.0	11.0	219	2.19	45.3	2.0	12.2	48	0.2	2.8	0.2	44	1.15
162874	Drill Core	7.37	<2	3.9	170.1	2.2	19	0.1	8.0	9.3	201	2.19	1.5	1.3	10.0	28	<0.1	<0.1	0.2	54	0.85
162875	Drill Core	6.99	4	48.8	611.5	2.1	18	0.7	8.1	8.8	172	2.35	1.5	1.8	9.2	25	<0.1	<0.1	<0.1	59	0.82



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Project: None Given
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CERTIFICATE OF ANALYSIS

SMI10000746.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162856	Drill Core	0.105	9	26	0.66	200	0.144	<20	0.83	0.061	0.33	29.9	<0.01	0.2	0.56	2.2	1.0	4	<0.2
162857	Drill Core	0.101	10	28	0.61	176	0.148	<20	0.79	0.059	0.31	9.3	<0.01	0.2	0.23	1.7	<0.5	4	<0.2
162858	Drill Core	0.103	12	35	0.60	241	0.162	<20	1.00	0.141	0.37	22.7	<0.01	0.2	0.24	2.0	0.6	5	<0.2
162859	Drill Core	0.108	10	30	0.57	172	0.153	<20	0.78	0.070	0.28	2.9	<0.01	0.1	0.06	1.5	<0.5	5	<0.2
162860	Drill Core	0.107	10	28	0.58	163	0.145	<20	0.78	0.066	0.28	4.9	<0.01	0.1	0.08	1.3	<0.5	4	<0.2
162861	Drill Core	0.098	10	24	0.55	142	0.114	<20	0.72	0.055	0.24	1.3	0.12	0.1	0.30	1.7	0.5	4	0.5
162862	Drill Core	0.106	14	20	0.65	317	0.065	<20	0.67	0.036	0.19	2.1	0.14	0.1	0.23	3.3	<0.5	3	<0.2
162863	Drill Core	0.106	11	27	0.64	151	0.126	<20	0.87	0.061	0.23	2.0	<0.01	0.1	0.09	1.7	<0.5	5	<0.2
162864	Drill Core	0.104	11	23	0.62	180	0.150	<20	0.77	0.059	0.32	3.0	<0.01	0.2	0.10	1.7	<0.5	4	<0.2
162865	Drill Core	0.107	11	26	0.64	164	0.135	<20	0.82	0.060	0.24	5.9	<0.01	0.1	0.21	1.7	0.7	4	<0.2
162866	Drill Core	0.107	11	24	0.60	110	0.118	<20	0.76	0.044	0.19	2.6	<0.01	0.1	0.18	2.2	0.6	4	<0.2
162867	Drill Core	0.112	13	26	0.66	219	0.127	<20	0.83	0.049	0.21	84.1	0.03	0.1	0.26	2.3	0.5	4	<0.2
162868	Drill Core	0.108	12	23	0.63	138	0.098	<20	0.86	0.043	0.19	4.3	<0.01	<0.1	0.20	2.8	0.5	4	<0.2
162869	Drill Core	0.099	10	25	0.57	160	0.130	<20	0.79	0.052	0.19	6.2	<0.01	<0.1	0.13	1.7	<0.5	4	<0.2
162870	Drill Core	0.109	11	24	0.61	137	0.129	<20	0.78	0.049	0.21	8.1	<0.01	0.1	0.24	1.7	0.6	4	<0.2
162871	Drill Core	0.109	10	26	0.73	219	0.158	<20	0.91	0.046	0.26	7.7	<0.01	0.1	0.41	2.2	0.7	5	<0.2
162872	Drill Core	0.062	10	16	0.38	112	0.066	<20	0.57	0.038	0.18	1.8	<0.01	<0.1	0.24	1.6	<0.5	3	<0.2
162873	Drill Core	0.087	12	20	0.60	211	0.099	<20	0.76	0.042	0.22	2.5	0.01	0.1	0.40	2.7	<0.5	4	<0.2
162874	Drill Core	0.098	10	24	0.65	197	0.125	<20	0.79	0.050	0.20	2.6	<0.01	<0.1	0.24	1.9	<0.5	4	<0.2
162875	Drill Core	0.095	10	26	0.62	136	0.145	<20	0.85	0.059	0.22	20.7	<0.01	0.1	0.17	1.7	<0.5	5	<0.2



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Project: None Given
Report Date: November 14, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI10000746.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
Pulp Duplicates																						
162869	Drill Core	7.04	<2	4.5	380.4	1.9	16	0.5	8.0	8.2	187	2.31	1.7	1.0	7.8	35	<0.1	0.2	<0.1	55	0.96	
REP 162869	QC			3.9	377.8	1.8	16	0.4	7.9	8.3	190	2.31	1.6	0.7	8.5	35	<0.1	0.2	<0.1	55	0.96	
Core Reject Duplicates																						
162858	Drill Core	7.68	3	59.7	434.1	2.3	22	0.5	8.8	11.0	209	2.51	1.1	1.5	9.1	34	<0.1	<0.1	0.1	63	0.88	
DUP 162858	QC		<2	52.0	434.4	2.3	23	0.5	8.7	10.5	211	2.52	0.8	2.6	9.6	32	<0.1	<0.1	0.1	64	0.88	
Reference Materials																						
STD DS7	Standard			21.1	115.2	65.4	404	1.0	58.5	9.8	613	2.42	51.9	57.9	4.5	72	6.5	4.2	4.5	83	0.96	
STD OREAS45PA	Standard			0.9	581.5	20.0	119	0.3	283.0	112.1	1082	16.91	4.7	47.9	7.0	13	<0.1	0.1	0.2	221	0.24	
STD OXC72	Standard			201																		
STD OXC72	Standard			204																		
STD OXH66	Standard			1245																		
STD OXH66	Standard			1312																		
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	
STD OXH66 Expected				1285																		
STD OXC72 Expected				205																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
Prep Wash																						
G1	Prep Blank			<2	0.2	3.2	3.3	43	<0.1	2.4	4.1	543	1.82	1.1	1.0	5.4	51	<0.1	<0.1	0.1	34	0.47
G1	Prep Blank			<2	0.3	3.4	3.4	41	<0.1	2.7	4.1	540	1.89	<0.5	<0.5	5.6	51	<0.1	<0.1	0.7	36	0.48



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 Smithers BC V0J 2N0 Canada

Project: None Given
 Report Date: November 14, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

SMI10000746.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																			
162869	Drill Core	0.099	10	25	0.57	160	0.130	<20	0.79	0.052	0.19	6.2	<0.01	<0.1	0.13	1.7	<0.5	4	<0.2
REP 162869	QC	0.099	10	25	0.57	149	0.129	<20	0.79	0.052	0.18	5.6	<0.01	<0.1	0.12	1.5	<0.5	4	<0.2
Core Reject Duplicates																			
162858	Drill Core	0.103	12	35	0.60	241	0.162	<20	1.00	0.141	0.37	22.7	<0.01	0.2	0.24	2.0	0.6	5	<0.2
DUP 162858	QC	0.103	12	36	0.61	247	0.164	<20	0.98	0.136	0.34	21.7	<0.01	0.2	0.24	2.0	<0.5	5	<0.2
Reference Materials																			
STD DS7	Standard	0.079	13	200	1.06	403	0.121	39	1.04	0.099	0.45	3.4	0.23	4.2	0.20	2.3	3.1	5	1.5
STD OREAS45PA	Standard	0.035	16	835	0.10	180	0.133	<20	3.40	0.006	0.08	<0.1	0.04	<0.1	<0.05	41.8	0.6	17	0.2
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8	
STD OXH66 Expected																			
STD OXC72 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.082	11	8	0.50	167	0.122	<20	0.91	0.078	0.55	0.2	<0.01	0.3	<0.05	1.8	<0.5	4	<0.2
G1	Prep Blank	0.082	12	8	0.52	178	0.125	<20	0.90	0.076	0.52	<0.1	<0.01	0.3	<0.05	1.8	<0.5	5	<0.2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 21, 2010
Report Date: December 06, 2010
Page: 1 of 5

CERTIFICATE OF ANALYSIS

SMI10000747.2

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 113

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	111	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	113	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	113	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7TD1	2	4 Acid Digestion ICP-ES analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2: 7TD1 Mo for Sample IDs 162938 & 162939 included



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: December 06, 2010

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162751	Drill Core	7.19	<2	9.7	309.1	2.0	25	0.2	9.7	8.5	231	2.30	5.9	1.4	10.0	28	<0.1	1.9	0.3	53	1.05
162752	Drill Core	7.16	<2	9.1	192.3	49.0	45	0.2	8.7	8.4	224	2.34	5.6	2.9	8.9	40	0.4	5.8	0.4	54	1.07
162753	Drill Core	7.50	<2	29.5	235.6	1.6	20	0.2	8.9	8.3	196	2.27	1.1	0.8	8.5	38	<0.1	<0.1	0.4	56	0.89
162754	Drill Core	7.37	<2	25.4	197.0	1.6	18	0.1	8.5	7.5	170	2.22	1.0	<0.5	7.8	24	<0.1	<0.1	<0.1	61	0.67
162755	Drill Core	7.10	<2	5.5	53.6	1.8	19	<0.1	8.8	7.1	176	2.32	0.8	<0.5	7.0	21	<0.1	0.1	<0.1	62	0.76
162756	Drill Core	7.29	<2	5.9	359.2	2.3	26	0.3	9.6	9.2	212	2.55	1.1	0.8	8.8	27	0.1	0.2	0.4	66	0.99
162757	Drill Core	6.35	3	17.8	3474	1.5	30	1.4	8.5	8.1	170	2.39	1.0	2.4	7.7	23	0.3	0.2	0.2	55	0.91
162758	Drill Core	3.35	<2	5.8	189.1	1.6	18	0.2	7.9	7.8	169	2.29	0.8	<0.5	8.7	23	<0.1	0.2	<0.1	63	0.71
162801	Drill Core	8.72	<2	4.8	111.4	1.9	22	<0.1	10.1	7.5	219	2.23	1.4	3.7	9.0	17	<0.1	0.1	<0.1	57	0.70
162802	Drill Core	6.67	<2	6.0	165.8	1.6	17	0.2	9.2	7.3	196	2.21	1.0	1.1	7.9	19	<0.1	<0.1	<0.1	61	0.65
162803	Drill Core	7.30	<2	2.4	109.5	1.7	19	<0.1	10.2	8.4	167	2.36	1.0	<0.5	8.1	19	<0.1	<0.1	0.1	61	0.78
162804	Drill Core	7.06	<2	4.0	117.8	1.6	14	<0.1	9.7	8.0	181	2.37	1.0	<0.5	8.2	19	<0.1	<0.1	<0.1	59	0.79
162805	Drill Core	7.20	<2	130.5	489.4	2.1	16	0.3	10.4	8.1	185	2.42	1.1	4.2	8.4	24	<0.1	<0.1	0.1	58	0.95
162806	Drill Core	6.71	<2	7.9	272.0	1.9	17	0.2	10.3	9.1	205	2.45	1.5	0.9	9.4	30	<0.1	0.1	0.2	61	0.93
162807	Drill Core	7.38	<2	3.3	111.2	1.6	18	<0.1	9.5	9.3	183	2.22	0.9	9.0	10.3	35	<0.1	<0.1	<0.1	60	0.74
162808	Drill Core	7.11	<2	3.2	120.3	1.7	18	0.1	8.8	7.9	196	2.29	0.8	5.9	8.4	35	<0.1	<0.1	0.2	62	0.78
162809	Drill Core	6.99	<2	3.7	226.7	2.6	27	0.2	9.3	8.1	269	2.25	13.6	1.1	7.7	57	0.1	6.2	0.1	52	1.26
162810	Drill Core	7.38	<2	24.3	283.5	1.9	23	0.2	7.6	8.1	196	2.14	1.1	1.0	9.3	26	<0.1	0.2	<0.1	57	0.62
162811	Drill Core	7.34	<2	3.1	45.3	1.8	23	<0.1	8.6	10.6	201	2.16	1.4	<0.5	9.8	26	<0.1	0.1	<0.1	57	0.69
162812	Drill Core	7.29	<2	2.8	139.8	1.9	23	<0.1	8.0	7.7	194	2.20	1.2	<0.5	10.4	28	<0.1	0.1	<0.1	61	0.56
162813	Drill Core	6.90	3	6.7	230.7	8.6	95	0.6	7.9	9.0	260	2.34	10.7	2.2	9.0	35	0.7	0.7	0.6	54	0.99
162814	Drill Core	6.94	<2	3.3	34.7	1.8	25	<0.1	8.2	7.7	296	2.30	1.7	0.8	9.7	42	<0.1	0.1	0.1	58	0.94
162815	Drill Core	7.58	3	23.8	176.1	6.0	57	0.3	9.4	10.5	370	2.40	6.7	3.9	7.9	41	0.4	0.1	0.7	55	1.08
162816	Drill Core	7.30	<2	5.1	422.6	1.9	24	0.2	7.7	8.8	204	2.34	0.9	1.3	9.7	44	<0.1	<0.1	<0.1	63	0.67
162817	Drill Core	6.21	<2	3.5	314.6	1.9	21	0.2	8.9	8.4	169	2.17	0.8	<0.5	9.2	32	<0.1	<0.1	<0.1	58	0.63
162818	Drill Core	7.25	<2	6.9	317.7	1.9	17	0.2	8.6	8.9	193	2.36	1.0	1.8	10.9	36	<0.1	<0.1	<0.1	61	0.79
162819	Drill Core	6.93	7	47.4	721.7	3.1	32	0.5	9.3	9.0	188	2.40	1.3	3.3	8.6	44	0.1	0.2	0.1	58	0.84
162820	Rock	1.91	<2	0.2	7.5	3.1	7	<0.1	0.7	0.6	42	0.15	1.0	<0.5	11.9	7	<0.1	<0.1	0.1	<2	0.08
162821	Drill Core	7.10	<2	3.0	145.3	2.1	16	<0.1	8.5	7.3	165	2.34	1.1	<0.5	8.6	42	<0.1	<0.1	<0.1	63	0.80
162822	Drill Core	7.20	<2	57.3	597.8	2.2	18	0.4	9.5	9.3	227	2.40	2.1	<0.5	9.2	49	<0.1	0.3	0.1	54	1.20

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Sultana
 Report Date: December 06, 2010

Page: 2 of 5 Part 2

CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
162751	Drill Core	0.089	10	31	0.66	148	0.132	<20	0.78	0.060	0.20	2.7	0.02	<0.1	0.31	2.3	<0.5	5	<0.2	N.A.
162752	Drill Core	0.089	10	23	0.64	178	0.126	<20	0.79	0.057	0.24	10.2	<0.01	0.1	0.36	2.3	0.5	4	0.2	N.A.
162753	Drill Core	0.092	9	25	0.64	298	0.147	<20	0.80	0.058	0.25	7.4	<0.01	0.1	0.35	2.2	<0.5	5	0.2	N.A.
162754	Drill Core	0.092	9	28	0.55	211	0.154	<20	0.73	0.071	0.28	2.4	<0.01	0.1	0.12	1.5	<0.5	4	<0.2	N.A.
162755	Drill Core	0.100	10	29	0.62	182	0.159	<20	0.72	0.074	0.29	0.4	<0.01	0.1	0.07	1.6	<0.5	5	<0.2	N.A.
162756	Drill Core	0.110	10	27	0.71	175	0.162	<20	0.89	0.065	0.30	3.8	<0.01	0.1	0.35	2.2	<0.5	5	<0.2	N.A.
162757	Drill Core	0.090	9	25	0.60	133	0.125	<20	0.76	0.059	0.24	3.1	<0.01	0.1	0.57	1.9	1.0	4	<0.2	N.A.
162758	Drill Core	0.096	9	26	0.58	149	0.140	<20	0.77	0.069	0.26	2.4	<0.01	0.1	0.18	1.6	<0.5	5	<0.2	N.A.
162801	Drill Core	0.093	11	29	0.63	157	0.123	<20	0.88	0.059	0.20	2.2	<0.01	<0.1	<0.05	2.0	<0.5	5	<0.2	N.A.
162802	Drill Core	0.093	10	28	0.59	180	0.138	<20	0.77	0.060	0.24	0.6	<0.01	0.1	<0.05	1.6	<0.5	4	<0.2	N.A.
162803	Drill Core	0.094	9	32	0.65	192	0.159	<20	0.88	0.069	0.26	0.8	<0.01	0.1	0.17	1.6	<0.5	4	<0.2	N.A.
162804	Drill Core	0.092	9	28	0.65	165	0.153	<20	0.83	0.056	0.23	3.1	<0.01	<0.1	0.15	1.6	<0.5	4	<0.2	N.A.
162805	Drill Core	0.095	10	31	0.77	153	0.166	<20	1.00	0.056	0.23	2.7	<0.01	<0.1	0.36	2.0	<0.5	5	<0.2	N.A.
162806	Drill Core	0.103	11	32	0.71	166	0.161	<20	0.95	0.059	0.25	20.1	<0.01	0.2	0.24	2.1	<0.5	5	<0.2	N.A.
162807	Drill Core	0.094	10	30	0.60	179	0.150	<20	0.78	0.068	0.26	1.4	<0.01	0.1	0.07	1.6	<0.5	4	<0.2	N.A.
162808	Drill Core	0.096	10	29	0.61	145	0.155	<20	0.77	0.067	0.20	1.8	<0.01	<0.1	0.08	1.6	<0.5	5	0.4	N.A.
162809	Drill Core	0.093	10	26	0.63	202	0.104	<20	0.68	0.054	0.24	1.0	0.06	<0.1	0.16	3.0	<0.5	4	0.2	N.A.
162810	Drill Core	0.086	11	25	0.55	163	0.141	<20	0.65	0.071	0.27	27.6	<0.01	0.1	0.10	1.4	<0.5	4	<0.2	N.A.
162811	Drill Core	0.100	10	28	0.55	174	0.151	<20	0.71	0.070	0.28	1.8	<0.01	0.2	0.18	1.6	<0.5	4	<0.2	N.A.
162812	Drill Core	0.089	11	27	0.54	160	0.145	<20	0.64	0.077	0.30	6.6	<0.01	0.2	0.05	1.4	<0.5	4	<0.2	N.A.
162813	Drill Core	0.087	10	25	0.58	122	0.123	<20	0.70	0.062	0.23	0.7	<0.01	0.1	0.23	2.0	<0.5	4	<0.2	N.A.
162814	Drill Core	0.092	10	26	0.60	114	0.127	<20	0.72	0.062	0.20	0.2	<0.01	<0.1	0.06	2.0	<0.5	4	<0.2	N.A.
162815	Drill Core	0.094	10	26	0.65	165	0.128	<20	0.76	0.056	0.25	0.5	<0.01	0.1	0.31	2.4	<0.5	4	<0.2	N.A.
162816	Drill Core	0.098	10	28	0.58	161	0.158	<20	0.79	0.073	0.29	2.2	<0.01	0.1	0.08	1.6	<0.5	4	<0.2	N.A.
162817	Drill Core	0.092	10	28	0.57	159	0.155	<20	0.74	0.076	0.28	3.3	<0.01	0.1	0.07	1.6	<0.5	4	<0.2	N.A.
162818	Drill Core	0.096	10	26	0.61	138	0.150	<20	0.79	0.059	0.24	9.5	<0.01	0.1	0.16	1.7	<0.5	5	<0.2	N.A.
162819	Drill Core	0.092	10	27	0.60	155	0.139	<20	0.83	0.065	0.23	3.2	<0.01	0.2	0.27	2.0	0.5	4	<0.2	N.A.
162820	Rock	0.003	5	5	0.02	13	0.005	<20	0.28	0.061	0.16	0.5	<0.01	<0.1	<0.05	0.5	<0.5	1	<0.2	N.A.
162821	Drill Core	0.100	12	27	0.64	135	0.154	<20	0.84	0.073	0.21	1.7	<0.01	<0.1	<0.05	1.4	<0.5	5	<0.2	N.A.
162822	Drill Core	0.093	11	26	0.67	117	0.127	<20	0.92	0.054	0.21	1.1	<0.01	<0.1	0.24	2.6	<0.5	5	<0.2	N.A.

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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162823	Drill Core	7.30	4	19.3	617.8	2.3	37	0.5	10.0	17.3	221	2.42	2.9	1.2	8.1	34	0.2	0.2	0.2	50	1.17
162824	Drill Core	6.93	<2	22.0	323.6	2.4	18	0.4	10.0	14.4	201	2.69	2.8	1.6	9.6	44	<0.1	0.1	1.4	56	1.07
162825	Drill Core	6.67	<2	4.3	143.3	2.1	15	0.1	8.5	10.9	188	2.41	1.6	0.7	9.6	35	<0.1	0.1	0.2	54	1.07
162826	Drill Core	7.36	3	31.8	574.0	2.0	19	0.5	8.2	9.0	200	2.50	1.5	2.1	10.4	31	<0.1	<0.1	0.1	59	0.94
162827	Drill Core	4.83	<2	3.2	60.9	1.9	17	<0.1	8.1	10.1	198	2.28	1.6	2.1	11.6	30	<0.1	<0.1	<0.1	57	0.82
162828	Drill Core	7.20	<2	3.5	52.0	2.3	16	<0.1	7.2	9.5	159	2.26	1.6	1.2	12.2	27	<0.1	<0.1	<0.1	57	0.72
162829	Drill Core	6.84	<2	6.0	248.8	2.9	23	0.3	7.4	18.8	205	2.72	1.5	1.6	12.1	32	<0.1	<0.1	0.3	56	0.95
162830	Drill Core	7.41	<2	60.4	134.3	2.0	16	<0.1	7.7	8.9	192	2.42	1.5	1.2	9.8	32	<0.1	<0.1	<0.1	61	0.86
162831	Drill Core	7.21	<2	5.6	111.0	1.9	17	<0.1	8.7	10.6	164	2.38	1.4	1.1	10.2	27	<0.1	<0.1	<0.1	58	0.75
162832	Drill Core	7.21	<2	3.0	146.7	2.5	19	0.1	8.6	7.7	184	2.31	1.5	<0.5	9.8	32	<0.1	<0.1	<0.1	57	0.76
162833	Drill Core	6.97	<2	5.3	205.3	2.8	19	0.3	8.3	16.8	251	2.49	3.9	1.7	9.6	48	<0.1	1.5	0.3	50	1.19
162834	Drill Core	7.50	<2	5.9	142.8	2.9	23	0.2	8.3	17.9	281	2.40	7.9	1.8	9.5	48	0.1	4.2	3.9	47	1.37
162835	Drill Core	7.50	<2	3.6	104.8	1.9	16	<0.1	7.7	7.3	160	2.27	1.2	2.3	10.4	29	<0.1	<0.1	<0.1	57	0.73
162836	Drill Core	7.01	3	16.6	600.7	1.7	17	0.4	8.0	10.1	167	2.44	1.3	1.0	10.3	28	<0.1	<0.1	0.1	59	0.76
162837	Drill Core	7.30	<2	5.4	193.8	2.1	16	0.3	7.6	13.0	192	2.50	1.9	2.2	8.7	25	<0.1	<0.1	0.2	58	0.86
162838	Drill Core	7.37	3	35.9	331.9	1.8	17	0.3	8.6	13.4	186	2.50	3.0	1.3	8.4	31	<0.1	1.6	0.1	57	0.92
162839	Drill Core	7.00	2	74.3	249.1	2.3	19	0.2	8.2	10.9	198	2.40	0.8	3.2	9.0	30	<0.1	0.1	0.2	56	0.82
162840	Rock Pulp	0.05	1429	209.7	>10000	77.9	124	4.5	33.7	20.2	345	4.25	39.5	1287	10.2	55	2.4	12.0	3.4	49	1.42
162841	Drill Core	6.37	5	10.1	154.7	2.2	18	<0.1	8.6	7.6	183	2.18	0.6	0.8	8.4	36	<0.1	0.1	<0.1	56	0.90
162842	Drill Core	7.29	<2	4.6	122.6	1.9	18	<0.1	8.4	9.8	183	2.29	0.6	<0.5	9.2	23	<0.1	<0.1	<0.1	58	0.66
162843	Drill Core	7.50	<2	4.7	175.6	2.1	17	0.2	7.7	8.0	195	2.32	0.9	1.9	10.0	29	<0.1	<0.1	0.1	56	0.91
162844	Drill Core	7.19	3	3.9	195.9	2.9	19	0.1	8.6	8.6	233	2.31	2.3	0.8	10.3	39	<0.1	1.0	0.1	55	1.05
162845	Drill Core	7.15	<2	4.6	163.6	2.1	16	0.1	7.9	7.2	165	2.27	0.6	0.7	10.2	24	<0.1	<0.1	<0.1	58	0.70
162846	Drill Core	7.32	3	11.1	347.9	2.0	19	0.2	8.5	10.3	194	2.49	0.6	<0.5	10.1	30	<0.1	<0.1	0.2	62	0.77
162847	Drill Core	7.19	<2	4.5	65.5	2.5	17	<0.1	7.8	8.1	167	2.32	0.6	<0.5	9.5	31	<0.1	<0.1	<0.1	60	0.72
162848	Drill Core	7.21	3	4.1	277.9	6.6	18	0.3	8.5	10.1	195	2.47	3.1	1.0	8.9	35	<0.1	<0.1	0.2	61	0.86
162849	Drill Core	7.26	<2	3.5	192.5	2.3	16	0.2	7.5	7.2	178	2.23	0.6	2.3	7.9	32	<0.1	0.1	<0.1	58	0.75
162850	Drill Core	7.22	3	46.4	149.3	4.2	19	0.4	7.4	9.9	203	2.44	1.0	1.9	10.1	45	<0.1	0.2	0.4	61	0.80
162851	Drill Core	7.12	<2	3.9	186.1	7.2	34	0.2	8.1	9.1	338	2.21	4.0	2.9	9.0	51	0.2	1.1	0.2	50	1.39
162852	Drill Core	7.64	<2	12.8	222.1	2.1	24	0.1	8.8	10.2	343	2.38	6.9	2.5	10.3	51	<0.1	5.1	<0.1	46	2.05

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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
162823	Drill Core	0.082	10	23	0.67	108	0.124	<20	0.91	0.049	0.24	>100	<0.01	0.1	0.63	2.8	<0.5	5	0.3	N.A.
162824	Drill Core	0.096	16	27	0.69	237	0.152	<20	0.89	0.052	0.24	3.8	<0.01	0.1	0.74	2.4	<0.5	5	0.9	N.A.
162825	Drill Core	0.088	10	25	0.59	150	0.135	<20	0.78	0.051	0.18	0.7	<0.01	<0.1	0.39	2.1	<0.5	4	0.4	N.A.
162826	Drill Core	0.104	10	32	0.69	164	0.155	<20	0.91	0.062	0.27	16.0	<0.01	0.2	0.26	2.4	<0.5	5	<0.2	N.A.
162827	Drill Core	0.099	11	32	0.57	157	0.136	<20	0.80	0.070	0.24	2.4	<0.01	<0.1	0.10	1.7	<0.5	4	<0.2	N.A.
162828	Drill Core	0.100	10	32	0.52	159	0.135	<20	0.73	0.067	0.24	0.6	<0.01	0.1	0.10	1.3	<0.5	4	<0.2	N.A.
162829	Drill Core	0.095	10	17	0.64	164	0.116	<20	0.83	0.057	0.23	12.4	<0.01	<0.1	0.64	2.1	0.7	4	<0.2	N.A.
162830	Drill Core	0.103	11	33	0.61	178	0.140	<20	0.83	0.071	0.24	0.6	<0.01	0.1	0.09	1.9	<0.5	5	<0.2	N.A.
162831	Drill Core	0.101	10	29	0.62	147	0.145	<20	0.83	0.059	0.23	3.6	<0.01	0.1	0.19	1.6	<0.5	4	<0.2	N.A.
162832	Drill Core	0.097	10	26	0.66	212	0.140	<20	0.83	0.060	0.26	2.8	<0.01	0.1	0.14	1.7	<0.5	5	<0.2	N.A.
162833	Drill Core	0.101	12	22	0.64	230	0.109	<20	0.76	0.049	0.25	0.9	0.01	0.1	0.36	2.5	0.7	4	<0.2	N.A.
162834	Drill Core	0.098	10	22	0.62	163	0.098	<20	0.71	0.045	0.21	3.8	0.01	<0.1	0.37	2.7	0.6	4	0.9	N.A.
162835	Drill Core	0.099	10	26	0.55	159	0.133	<20	0.77	0.065	0.23	7.1	<0.01	<0.1	0.05	1.3	<0.5	4	<0.2	N.A.
162836	Drill Core	0.104	10	26	0.63	173	0.149	<20	0.81	0.058	0.27	19.9	<0.01	0.1	0.22	1.6	<0.5	4	<0.2	N.A.
162837	Drill Core	0.105	10	26	0.60	194	0.137	<20	0.79	0.057	0.25	4.2	<0.01	0.1	0.34	1.7	<0.5	5	<0.2	N.A.
162838	Drill Core	0.104	11	26	0.63	178	0.131	<20	0.83	0.053	0.23	4.7	<0.01	0.1	0.32	2.0	0.7	5	0.2	N.A.
162839	Drill Core	0.095	9	25	0.66	180	0.133	<20	0.82	0.050	0.23	2.0	<0.01	0.1	0.30	1.8	<0.5	5	0.4	N.A.
162840	Rock Pulp	0.064	18	58	0.79	94	0.033	<20	1.13	0.030	0.43	2.9	0.17	0.3	2.29	4.3	5.6	4	0.6	N.A.
162841	Drill Core	0.093	10	24	0.61	140	0.132	<20	0.79	0.050	0.25	4.8	<0.01	0.1	0.12	1.3	<0.5	4	<0.2	N.A.
162842	Drill Core	0.093	9	26	0.62	161	0.151	<20	0.78	0.062	0.28	8.3	<0.01	0.1	0.20	1.5	<0.5	4	<0.2	N.A.
162843	Drill Core	0.098	11	24	0.57	142	0.133	<20	0.75	0.057	0.22	4.5	<0.01	0.1	0.16	1.4	0.6	4	<0.2	N.A.
162844	Drill Core	0.095	11	24	0.62	148	0.124	<20	0.79	0.051	0.22	2.4	<0.01	<0.1	0.15	1.9	<0.5	5	<0.2	N.A.
162845	Drill Core	0.098	9	25	0.56	149	0.139	<20	0.71	0.060	0.24	3.2	<0.01	<0.1	0.11	1.2	<0.5	4	<0.2	N.A.
162846	Drill Core	0.100	10	27	0.65	162	0.156	<20	0.81	0.058	0.28	7.8	<0.01	0.2	0.28	1.6	<0.5	5	<0.2	N.A.
162847	Drill Core	0.098	10	28	0.54	137	0.140	<20	0.76	0.061	0.21	2.9	<0.01	<0.1	0.10	0.9	<0.5	4	<0.2	N.A.
162848	Drill Core	0.102	11	27	0.63	132	0.144	<20	0.82	0.056	0.23	2.3	<0.01	<0.1	0.16	1.3	<0.5	5	<0.2	N.A.
162849	Drill Core	0.096	10	26	0.58	138	0.140	<20	0.80	0.058	0.25	2.8	<0.01	0.1	0.05	1.1	<0.5	4	<0.2	N.A.
162850	Drill Core	0.095	10	25	0.60	146	0.141	<20	0.78	0.057	0.28	5.0	<0.01	0.2	0.25	1.4	<0.5	4	<0.2	N.A.
162851	Drill Core	0.094	10	21	0.55	129	0.100	<20	0.76	0.044	0.24	1.9	<0.01	0.2	0.16	2.2	<0.5	4	<0.2	N.A.
162852	Drill Core	0.100	13	20	0.54	89	0.064	<20	0.77	0.038	0.19	1.6	<0.01	<0.1	0.15	3.1	<0.5	4	<0.2	N.A.

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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162853	Drill Core	7.19	<2	5.8	168.3	2.1	17	0.2	7.7	7.8	205	2.25	1.0	0.8	8.9	38	<0.1	<0.1	<0.1	58	0.96
162854	Drill Core	7.09	4	62.4	664.1	2.4	25	0.3	7.9	10.8	260	2.38	4.9	3.8	11.2	57	<0.1	0.2	0.2	53	1.38
162855	Drill Core	7.37	<2	8.3	305.8	2.5	23	0.3	8.8	9.7	226	2.30	0.8	1.4	11.3	56	<0.1	<0.1	0.2	56	1.00
162901	Drill Core	3.25	<2	22.4	459.0	1.6	40	0.4	10.6	9.0	220	2.32	1.5	0.6	12.6	22	0.2	0.6	0.2	46	0.61
162902	Drill Core	6.18	<2	5.2	338.2	2.2	23	0.2	9.8	10.3	225	2.58	1.3	3.4	9.9	46	0.1	0.2	0.3	58	0.74
162903	Drill Core	7.02	3	15.8	760.0	52.5	131	1.1	9.6	12.3	285	2.62	62.4	7.4	11.8	81	1.5	22.1	0.3	45	1.33
162904	Drill Core	6.05	<2	41.5	718.9	1258	330	5.3	8.0	9.7	426	2.48	71.8	3.4	11.6	84	4.5	129.7	0.9	30	2.59
162905	Drill Core	7.40	<2	14.5	364.3	4.6	29	0.4	8.8	12.8	218	2.63	8.5	<0.5	11.1	65	0.2	5.1	0.5	54	1.15
162906	Drill Core	7.34	<2	8.4	408.3	3.3	15	0.3	7.9	8.9	179	2.28	0.9	<0.5	10.6	36	<0.1	0.3	0.1	57	0.84
162907	Drill Core	6.89	<2	6.0	311.4	2.4	16	0.2	9.0	8.6	189	2.40	1.3	7.0	9.9	69	<0.1	0.2	0.1	59	0.98
162908	Drill Core	7.20	<2	20.6	389.6	10.4	33	0.3	8.9	8.5	215	2.34	1.5	2.0	10.1	53	0.3	0.1	0.2	58	0.95
162909	Drill Core	7.42	<2	32.9	469.9	2.5	18	0.7	8.7	12.5	227	2.42	1.9	2.1	9.5	32	<0.1	0.8	0.2	59	0.96
162910	Drill Core	6.81	<2	17.2	268.0	1.8	17	0.2	8.3	10.3	201	2.41	1.4	1.1	11.0	31	<0.1	0.3	0.2	59	0.90
162911	Drill Core	6.44	<2	4.7	73.5	2.0	13	<0.1	7.5	7.3	164	2.21	0.8	1.7	12.2	40	<0.1	<0.1	0.1	56	0.81
162912	Drill Core	7.55	<2	71.5	737.6	3.0	19	1.0	9.1	49.1	226	2.77	6.5	5.0	10.5	32	<0.1	1.5	1.5	50	1.02
162913	Drill Core	7.56	<2	4.9	140.5	2.1	16	0.1	7.9	9.1	177	2.42	1.1	0.6	11.8	23	<0.1	<0.1	0.2	60	0.86
162914	Drill Core	6.72	<2	111.0	292.8	2.1	15	0.2	8.0	9.7	185	2.52	1.5	3.1	10.3	23	<0.1	0.2	1.1	59	0.95
162915	Drill Core	7.57	<2	3.2	302.3	2.8	15	0.2	8.3	11.2	169	2.48	0.9	1.4	10.5	25	<0.1	0.1	0.1	61	0.85
162916	Drill Core	6.74	<2	4.0	238.5	1.8	17	0.2	8.7	7.1	172	2.42	0.8	6.0	10.5	25	<0.1	0.2	0.2	62	0.72
162917	Drill Core	6.06	<2	6.2	300.9	1.7	16	0.3	8.0	8.3	195	2.32	2.2	1.9	12.2	34	<0.1	0.2	0.1	56	0.96
162918	Drill Core	7.65	<2	16.4	494.1	1.8	19	0.4	9.2	18.2	209	2.66	1.2	1.3	10.9	28	<0.1	0.2	0.3	60	0.94
162919	Drill Core	6.13	<2	4.7	682.8	2.0	18	0.4	7.7	11.1	181	2.42	1.1	12.5	9.2	19	<0.1	0.2	0.2	58	0.78
162920	Rock	2.86	<2	<0.1	8.2	2.8	7	<0.1	0.6	0.4	33	0.13	0.8	1.3	14.2	10	<0.1	<0.1	<0.1	<2	0.10
162921	Drill Core	6.86	<2	8.2	300.2	1.3	16	0.2	8.9	10.9	197	2.57	1.2	3.6	8.5	41	<0.1	<0.1	0.2	64	0.84
162922	Drill Core	7.35	<2	19.7	349.5	1.6	22	0.2	9.3	11.1	210	2.65	1.4	2.8	8.4	29	<0.1	<0.1	0.2	66	0.88
162923	Drill Core	7.28	3	408.4	331.3	1.6	21	0.2	9.5	10.1	202	2.64	1.1	0.9	9.0	26	<0.1	<0.1	0.2	66	0.74
162924	Drill Core	6.91	3	9.8	396.9	1.4	22	0.2	11.1	12.8	211	2.72	1.1	3.5	9.5	39	<0.1	<0.1	0.2	65	0.79
162925	Drill Core	6.59	<2	14.3	200.5	1.6	22	0.1	10.1	11.0	230	2.78	0.9	<0.5	8.5	28	<0.1	<0.1	0.2	69	0.82
162926	Drill Core	6.94	3	10.5	181.0	1.6	19	<0.1	10.5	9.2	193	2.62	1.0	0.8	10.4	27	<0.1	<0.1	0.1	66	0.78
162927	Drill Core	6.49	<2	14.2	217.0	1.6	19	0.2	9.8	9.6	209	2.63	1.1	2.3	9.7	34	<0.1	<0.1	0.2	65	0.94

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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
162853	Drill Core	0.096	10	24	0.58	180	0.130	<20	0.79	0.057	0.20	3.3	<0.01	0.1	0.10	1.5	<0.5	4	<0.2	N.A.
162854	Drill Core	0.093	28	23	0.65	132	0.101	<20	0.77	0.049	0.23	3.2	<0.01	0.1	0.31	2.7	0.6	4	<0.2	N.A.
162855	Drill Core	0.091	11	24	0.60	181	0.123	<20	0.73	0.058	0.29	21.2	<0.01	0.1	0.27	2.3	0.5	4	<0.2	N.A.
162901	Drill Core	0.092	11	19	0.66	282	0.084	<20	0.88	0.042	0.25	0.9	<0.01	0.2	0.19	3.5	<0.5	5	<0.2	N.A.
162902	Drill Core	0.098	10	26	0.80	191	0.143	<20	0.94	0.050	0.20	1.0	<0.01	<0.1	0.27	2.7	<0.5	5	<0.2	N.A.
162903	Drill Core	0.092	10	22	0.81	244	0.112	<20	0.88	0.036	0.24	4.0	0.03	0.1	0.61	3.4	0.9	5	<0.2	N.A.
162904	Drill Core	0.095	11	14	0.82	505	0.027	<20	0.59	0.024	0.21	2.3	0.14	0.1	0.53	4.3	0.7	2	<0.2	N.A.
162905	Drill Core	0.094	9	24	0.72	138	0.134	<20	0.91	0.044	0.23	2.4	<0.01	0.1	0.69	2.5	0.6	5	<0.2	N.A.
162906	Drill Core	0.091	8	26	0.70	150	0.154	<20	0.86	0.049	0.25	7.5	<0.01	0.1	0.32	1.7	0.5	5	<0.2	N.A.
162907	Drill Core	0.094	9	24	0.71	164	0.153	<20	0.99	0.049	0.24	3.3	<0.01	0.1	0.25	1.7	<0.5	5	<0.2	N.A.
162908	Drill Core	0.093	9	23	0.75	159	0.156	<20	0.98	0.049	0.32	1.4	<0.01	0.2	0.26	2.3	0.5	5	<0.2	N.A.
162909	Drill Core	0.093	9	24	0.76	176	0.135	<20	0.84	0.042	0.31	3.7	<0.01	0.2	0.37	2.4	<0.5	5	<0.2	N.A.
162910	Drill Core	0.100	9	24	0.70	133	0.133	<20	0.89	0.048	0.25	3.2	<0.01	0.2	0.40	1.8	<0.5	5	<0.2	N.A.
162911	Drill Core	0.093	9	24	0.63	128	0.131	<20	0.81	0.049	0.20	3.3	<0.01	<0.1	0.16	1.2	<0.5	4	<0.2	N.A.
162912	Drill Core	0.092	9	22	0.66	121	0.112	<20	0.77	0.047	0.25	3.7	<0.01	0.1	1.05	2.2	1.1	4	1.1	N.A.
162913	Drill Core	0.093	11	25	0.68	141	0.151	<20	0.80	0.058	0.22	4.1	<0.01	0.1	0.17	1.6	<0.5	5	0.3	N.A.
162914	Drill Core	0.093	10	25	0.61	117	0.140	<20	0.80	0.060	0.20	3.2	<0.01	<0.1	0.39	1.6	0.7	5	0.6	N.A.
162915	Drill Core	0.097	10	24	0.61	131	0.148	<20	0.86	0.064	0.22	3.7	<0.01	0.1	0.38	1.4	0.7	5	<0.2	N.A.
162916	Drill Core	0.102	10	25	0.63	149	0.150	<20	0.83	0.061	0.27	7.0	<0.01	0.1	0.18	1.5	<0.5	5	<0.2	N.A.
162917	Drill Core	0.093	10	21	0.60	134	0.125	<20	0.84	0.049	0.24	2.1	<0.01	0.1	0.22	2.0	<0.5	5	<0.2	N.A.
162918	Drill Core	0.105	11	24	0.78	152	0.146	<20	0.91	0.051	0.30	4.5	<0.01	0.2	0.64	2.4	0.8	5	<0.2	N.A.
162919	Drill Core	0.099	9	24	0.68	149	0.150	<20	0.84	0.043	0.28	86.5	<0.01	0.1	0.38	2.0	<0.5	5	<0.2	N.A.
162920	Rock	0.002	4	10	0.01	15	0.005	<20	0.31	0.063	0.13	0.7	<0.01	<0.1	<0.05	0.7	<0.5	2	<0.2	N.A.
162921	Drill Core	0.093	10	32	0.71	186	0.168	<20	0.92	0.083	0.34	12.9	<0.01	0.2	0.48	2.4	0.6	5	<0.2	N.A.
162922	Drill Core	0.094	10	34	0.81	192	0.188	<20	1.01	0.084	0.44	4.2	<0.01	0.3	0.57	3.0	<0.5	6	<0.2	N.A.
162923	Drill Core	0.096	10	34	0.84	192	0.194	<20	1.01	0.084	0.48	7.6	<0.01	0.3	0.61	3.4	<0.5	5	<0.2	N.A.
162924	Drill Core	0.094	9	33	0.89	199	0.197	<20	1.08	0.083	0.50	8.1	<0.01	0.4	0.76	3.9	<0.5	5	<0.2	N.A.
162925	Drill Core	0.094	9	31	0.93	201	0.188	<20	1.12	0.074	0.50	7.8	<0.01	0.3	0.77	3.9	0.9	5	0.7	N.A.
162926	Drill Core	0.097	10	32	0.83	200	0.186	<20	1.02	0.083	0.44	5.7	<0.01	0.3	0.64	2.6	<0.5	5	0.7	N.A.
162927	Drill Core	0.093	10	30	0.85	188	0.174	<20	1.03	0.076	0.44	2.1	<0.01	0.2	0.67	3.2	<0.5	5	<0.2	N.A.

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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162928	Drill Core	6.68	<2	10.4	569.0	1.3	21	0.4	9.8	13.3	221	2.83	1.3	15.2	9.4	92	<0.1	<0.1	0.2	67	0.91
162929	Drill Core	7.00	21	6.7	464.5	1.4	27	0.4	10.6	11.2	276	2.66	2.4	13.0	10.0	178	<0.1	0.1	0.5	58	1.25
162930	Drill Core	7.32	<2	32.2	222.9	1.3	22	0.2	8.5	9.9	284	2.74	10.5	1.8	8.5	73	<0.1	2.0	1.4	43	1.81
162931	Drill Core	7.51	<2	11.8	211.9	1.5	21	0.2	8.8	11.2	253	2.51	3.7	<0.5	9.5	107	<0.1	0.6	0.2	60	1.08
162932	Drill Core	7.67	<2	5.7	250.3	1.3	19	0.3	8.1	9.2	210	2.43	1.1	1.8	10.6	169	<0.1	<0.1	0.2	64	0.79
162933	Drill Core	7.68	<2	4.9	198.9	2.0	15	0.2	6.9	10.8	180	2.37	1.5	1.1	10.9	27	<0.1	0.1	<0.1	60	0.78
162934	Drill Core	7.58	<2	8.1	536.4	1.7	21	0.4	8.6	10.0	225	2.54	7.7	1.4	8.7	38	<0.1	1.0	0.1	61	1.03
162935	Drill Core	7.15	<2	3.2	238.8	1.9	16	0.2	9.4	8.7	205	2.53	3.6	1.8	9.0	86	<0.1	1.6	0.1	64	0.93
162936	Drill Core	7.68	<2	96.7	264.7	3.2	20	0.1	7.5	9.4	223	2.46	6.3	0.9	9.2	87	<0.1	1.4	<0.1	60	1.16
162937	Drill Core	7.34	<2	27.4	191.0	4.8	26	0.3	9.7	9.4	285	2.67	8.6	0.8	8.4	47	<0.1	0.7	0.5	58	1.28
162938	Drill Core	7.02	33	>2000	911.8	1031	318	5.8	12.2	28.6	453	4.08	105.3	36.9	8.5	262	1.4	19.1	23.2	30	2.72
162939	Drill Core	6.69	291	>2000	5064	721.7	1507	22.0	9.3	24.1	420	3.40	684.1	296.0	9.3	248	17.8	50.3	38.8	35	3.23
162940	Rock Pulp	0.07	1395	234.5	>10000	78.3	125	4.8	34.2	20.6	341	4.41	41.6	1324	9.8	54	2.1	10.5	3.2	51	1.42
162941	Drill Core	6.27	9	25.6	579.3	6.8	38	0.7	7.7	10.2	346	2.29	16.3	2.8	9.0	150	0.3	3.9	0.8	45	2.23
162942	Drill Core	6.90	<2	3.1	239.9	1.8	18	0.1	7.9	8.5	213	2.44	1.2	1.8	8.8	33	<0.1	0.2	0.2	60	0.92
162943	Drill Core	7.08	2	11.2	193.1	1.8	17	0.1	9.0	7.4	190	2.46	1.1	1.7	8.6	27	<0.1	0.2	0.1	64	0.81
162944	Drill Core	6.05	<2	5.1	387.7	3.4	20	0.4	8.1	7.5	204	2.39	1.5	1.3	8.5	33	0.2	0.1	<0.1	58	0.88
162945	Drill Core	6.88	<2	4.3	77.4	2.2	19	<0.1	6.7	7.7	204	2.29	1.3	<0.5	7.4	48	<0.1	<0.1	<0.1	60	0.88
162946	Drill Core	6.56	<2	3.5	386.8	1.7	20	0.2	7.5	7.5	213	2.45	2.0	3.2	10.1	27	<0.1	0.1	0.3	64	0.86
162947	Drill Core	6.53	<2	5.2	202.1	1.8	19	0.1	6.8	8.0	220	2.29	3.3	0.8	10.3	61	<0.1	0.7	0.1	56	1.00
162948	Drill Core	6.07	3	5.1	384.1	2.2	20	1.5	8.9	8.3	218	2.35	3.6	3.9	8.0	105	<0.1	0.4	0.1	59	1.08
162949	Drill Core	7.00	6	4.5	368.1	2.0	21	0.2	8.6	11.9	211	2.48	1.5	1.1	8.7	35	<0.1	0.2	0.1	63	0.85
162950	Drill Core	7.03	<2	5.4	312.7	1.9	21	0.2	8.0	9.1	215	2.42	2.0	<0.5	9.3	37	<0.1	0.2	<0.1	63	0.74



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Project: Sultana
 Report Date: December 06, 2010

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CERTIFICATE OF ANALYSIS

SMI10000747.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
162928	Drill Core	0.098	10	31	0.90	200	0.182	<20	1.10	0.079	0.49	1.0	<0.01	0.4	0.78	3.8	<0.5	5	<0.2	N.A.
162929	Drill Core	0.093	10	29	0.87	229	0.133	<20	1.07	0.065	0.41	1.5	<0.01	0.3	0.91	4.2	<0.5	5	0.6	N.A.
162930	Drill Core	0.093	12	23	0.71	303	0.070	<20	0.88	0.058	0.35	0.9	<0.01	0.3	0.82	3.8	<0.5	4	1.2	N.A.
162931	Drill Core	0.092	11	30	0.74	244	0.154	<20	0.95	0.078	0.34	3.3	<0.01	0.2	0.43	3.1	0.7	5	<0.2	N.A.
162932	Drill Core	0.094	11	31	0.71	258	0.162	<20	0.92	0.086	0.34	1.9	<0.01	0.2	0.25	2.3	<0.5	5	<0.2	N.A.
162933	Drill Core	0.092	11	29	0.58	140	0.141	<20	0.81	0.082	0.26	0.6	<0.01	0.1	0.17	1.7	<0.5	4	<0.2	N.A.
162934	Drill Core	0.094	12	30	0.65	159	0.144	<20	0.88	0.083	0.26	1.2	<0.01	0.2	0.20	2.1	<0.5	5	<0.2	N.A.
162935	Drill Core	0.098	11	31	0.70	198	0.155	<20	0.93	0.078	0.31	1.1	<0.01	0.1	0.30	2.1	<0.5	5	<0.2	N.A.
162936	Drill Core	0.099	11	29	0.62	163	0.131	<20	0.88	0.073	0.21	1.9	<0.01	0.1	0.28	2.4	<0.5	5	<0.2	N.A.
162937	Drill Core	0.096	11	28	0.62	380	0.113	<20	0.86	0.066	0.23	0.5	<0.01	0.1	0.40	2.6	<0.5	5	<0.2	N.A.
162938	Drill Core	0.077	7	17	0.53	85	0.029	<20	1.13	0.047	0.28	2.1	0.09	0.3	3.16	2.7	2.5	4	10.4	0.269
162939	Drill Core	0.081	11	19	0.46	100	0.026	<20	1.08	0.058	0.24	1.1	0.27	0.4	2.70	3.4	5.3	4	21.8	0.328
162940	Rock Pulp	0.062	19	59	0.80	87	0.031	<20	1.25	0.034	0.46	2.8	0.15	0.4	2.37	4.4	3.2	4	<0.2	N.A.
162941	Drill Core	0.090	12	19	0.57	270	0.062	<20	1.00	0.055	0.23	1.5	<0.01	<0.1	0.40	2.8	<0.5	4	1.1	N.A.
162942	Drill Core	0.094	10	24	0.68	113	0.147	<20	0.96	0.060	0.21	1.2	<0.01	<0.1	0.22	2.0	<0.5	5	<0.2	N.A.
162943	Drill Core	0.098	10	26	0.62	134	0.141	<20	0.89	0.069	0.25	9.8	<0.01	<0.1	0.12	1.6	<0.5	5	0.4	N.A.
162944	Drill Core	0.096	10	24	0.62	132	0.132	<20	0.87	0.065	0.25	1.9	<0.01	0.1	0.21	1.9	<0.5	5	<0.2	N.A.
162945	Drill Core	0.093	10	24	0.58	136	0.136	<20	0.88	0.069	0.24	0.3	<0.01	0.1	<0.05	1.4	<0.5	5	<0.2	N.A.
162946	Drill Core	0.104	11	24	0.63	168	0.142	<20	0.87	0.074	0.28	5.2	<0.01	0.1	0.14	1.9	<0.5	5	<0.2	N.A.
162947	Drill Core	0.096	10	21	0.57	146	0.115	<20	0.90	0.059	0.23	0.9	<0.01	0.1	0.18	1.9	<0.5	5	<0.2	N.A.
162948	Drill Core	0.097	10	23	0.62	156	0.126	<20	0.99	0.072	0.26	3.0	<0.01	0.1	0.19	1.9	<0.5	5	<0.2	N.A.
162949	Drill Core	0.101	10	27	0.64	158	0.150	<20	0.91	0.071	0.29	3.5	<0.01	0.2	0.22	2.1	<0.5	5	<0.2	N.A.
162950	Drill Core	0.101	10	25	0.61	235	0.145	<20	0.89	0.075	0.29	2.1	<0.01	0.1	0.14	1.6	<0.5	5	<0.2	N.A.



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 Report Date: December 06, 2010

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QUALITY CONTROL REPORT

SMI10000747.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
REP G1	QC	<2																			
162823	Drill Core	7.30	4	19.3	617.8	2.3	37	0.5	10.0	17.3	221	2.42	2.9	1.2	8.1	34	0.2	0.2	0.2	50	1.17
REP 162823	QC	5																			
162824	Drill Core	6.93	<2	22.0	323.6	2.4	18	0.4	10.0	14.4	201	2.69	2.8	1.6	9.6	44	<0.1	0.1	1.4	56	1.07
REP 162824	QC			17.5	308.4	2.3	20	0.3	10.0	13.2	191	2.60	2.6	1.3	9.4	42	<0.1	0.1	1.4	55	1.00
162842	Drill Core	7.29	<2	4.6	122.6	1.9	18	<0.1	8.4	9.8	183	2.29	0.6	<0.5	9.2	23	<0.1	<0.1	<0.1	58	0.66
REP 162842	QC			4.7	122.0	2.0	19	<0.1	7.9	9.6	182	2.35	0.6	<0.5	9.6	23	<0.1	<0.1	<0.1	59	0.69
162912	Drill Core	7.55	<2	71.5	737.6	3.0	19	1.0	9.1	49.1	226	2.77	6.5	5.0	10.5	32	<0.1	1.5	1.5	50	1.02
REP 162912	QC	<2																			
162935	Drill Core	7.15	<2	3.2	238.8	1.9	16	0.2	9.4	8.7	205	2.53	3.6	1.8	9.0	86	<0.1	1.6	0.1	64	0.93
REP 162935	QC			2.0	238.1	1.7	14	0.1	8.7	8.7	207	2.56	3.8	<0.5	8.4	88	<0.1	1.8	<0.1	65	0.93
162938	Drill Core	7.02	33	>2000	911.8	1031	318	5.8	12.2	28.6	453	4.08	105.3	36.9	8.5	262	1.4	19.1	23.2	30	2.72
REP 162938	QC																				
Core Reject Duplicates																					
162821	Drill Core	7.10	<2	3.0	145.3	2.1	16	<0.1	8.5	7.3	165	2.34	1.1	<0.5	8.6	42	<0.1	<0.1	<0.1	63	0.80
DUP 162821	QC	<2		2.6	127.2	1.9	16	<0.1	7.4	6.8	166	2.32	0.8	<0.5	8.7	39	<0.1	<0.1	<0.1	65	0.80
162901	Drill Core	3.25	<2	22.4	459.0	1.6	40	0.4	10.6	9.0	220	2.32	1.5	0.6	12.6	22	0.2	0.6	0.2	46	0.61
DUP 162901	QC	<2		22.0	521.4	1.8	40	0.4	11.2	9.8	231	2.44	1.4	1.5	12.8	22	0.3	0.7	0.2	48	0.61
162936	Drill Core	7.68	<2	96.7	264.7	3.2	20	0.1	7.5	9.4	223	2.46	6.3	0.9	9.2	87	<0.1	1.4	<0.1	60	1.16
DUP 162936	QC	<2		92.9	263.0	3.1	20	0.1	8.4	9.3	228	2.50	6.4	1.0	9.1	85	<0.1	1.3	0.1	61	1.20
Reference Materials																					
STD DS7	Standard			21.1	115.2	65.4	404	1.0	58.5	9.8	613	2.42	51.9	57.9	4.5	72	6.5	4.2	4.5	83	0.96
STD DS7	Standard			21.0	109.6	65.9	397	0.9	57.0	9.7	610	2.39	52.1	61.1	4.2	64	6.0	4.2	4.2	82	0.95
STD DS7	Standard			20.9	105.7	67.5	390	1.2	57.6	8.8	597	2.38	48.0	59.8	4.6	70	6.2	4.6	4.5	79	0.94
STD DS7	Standard			20.5	110.9	76.9	401	0.9	56.0	9.4	608	2.37	47.0	57.6	4.6	72	5.9	4.8	4.7	80	0.94
STD OREAS131A	Standard																				
STD OREAS45PA	Standard			0.9	581.5	20.0	119	0.3	283.0	112.1	1082	16.91	4.7	47.9	7.0	13	<0.1	0.1	0.2	221	0.24
STD OREAS45PA	Standard			1.0	598.4	18.7	107	0.3	284.0	102.4	1146	16.36	4.1	48.7	6.9	12	<0.1	0.1	0.2	220	0.23

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QUALITY CONTROL REPORT

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
Pulp Duplicates																				
REP G1	QC																			
162823	Drill Core	0.082	10	23	0.67	108	0.124	<20	0.91	0.049	0.24	>100	<0.01	0.1	0.63	2.8	<0.5	5	0.3	N.A.
REP 162823																				
162824	Drill Core	0.096	16	27	0.69	237	0.152	<20	0.89	0.052	0.24	3.8	<0.01	0.1	0.74	2.4	<0.5	5	0.9	N.A.
REP 162824	QC	0.092	14	26	0.65	226	0.145	<20	0.82	0.050	0.22	4.0	<0.01	0.1	0.66	2.3	0.9	5	0.4	
162842	Drill Core	0.093	9	26	0.62	161	0.151	<20	0.78	0.062	0.28	8.3	<0.01	0.1	0.20	1.5	<0.5	4	<0.2	N.A.
REP 162842	QC	0.098	10	26	0.59	171	0.152	<20	0.77	0.060	0.29	8.7	<0.01	0.1	0.21	1.6	<0.5	4	<0.2	
162912	Drill Core	0.092	9	22	0.66	121	0.112	<20	0.77	0.047	0.25	3.7	<0.01	0.1	1.05	2.2	1.1	4	1.1	N.A.
REP 162912																				
162935	Drill Core	0.098	11	31	0.70	198	0.155	<20	0.93	0.078	0.31	1.1	<0.01	0.1	0.30	2.1	<0.5	5	<0.2	N.A.
REP 162935	QC	0.097	10	31	0.69	203	0.161	<20	0.93	0.079	0.32	0.9	<0.01	0.2	0.31	2.1	<0.5	5	<0.2	
162938	Drill Core	0.077	7	17	0.53	85	0.029	<20	1.13	0.047	0.28	2.1	0.09	0.3	3.16	2.7	2.5	4	10.4	0.269
REP 162938	QC																			0.277
Core Reject Duplicates																				
162821	Drill Core	0.100	12	27	0.64	135	0.154	<20	0.84	0.073	0.21	1.7	<0.01	<0.1	<0.05	1.4	<0.5	5	<0.2	N.A.
DUP 162821	QC	0.102	11	25	0.59	126	0.147	<20	0.81	0.065	0.19	1.1	<0.01	<0.1	<0.05	1.3	<0.5	4	<0.2	N.A.
162901	Drill Core	0.092	11	19	0.66	282	0.084	<20	0.88	0.042	0.25	0.9	<0.01	0.2	0.19	3.5	<0.5	5	<0.2	N.A.
DUP 162901	QC	0.095	11	20	0.65	279	0.084	<20	0.89	0.043	0.27	1.2	<0.01	0.1	0.19	3.5	<0.5	4	<0.2	N.A.
162936	Drill Core	0.099	11	29	0.62	163	0.131	<20	0.88	0.073	0.21	1.9	<0.01	0.1	0.28	2.4	<0.5	5	<0.2	N.A.
DUP 162936	QC	0.097	12	29	0.62	161	0.134	<20	0.89	0.075	0.22	1.8	<0.01	0.1	0.29	2.3	<0.5	5	0.5	N.A.
Reference Materials																				
STD DS7	Standard	0.079	13	200	1.06	403	0.121	39	1.04	0.099	0.45	3.4	0.23	4.2	0.20	2.3	3.1	5	1.5	
STD DS7	Standard	0.072	12	207	1.02	389	0.126	38	0.98	0.093	0.46	3.2	0.22	4.0	0.21	2.4	3.2	4	1.6	
STD DS7	Standard	0.074	12	203	1.02	383	0.120	28	1.00	0.097	0.45	3.1	0.20	4.1	0.20	2.2	2.3	5	2.5	
STD DS7	Standard	0.073	12	205	1.06	405	0.120	41	0.97	0.095	0.46	3.4	0.20	4.0	0.20	2.1	3.5	5	1.0	
STD OREAS131A	Standard																			<0.001
STD OREAS45PA	Standard	0.035	16	835	0.10	180	0.133	<20	3.40	0.006	0.08	<0.1	0.04	<0.1	<0.05	41.8	0.6	17	0.2	
STD OREAS45PA	Standard	0.033	16	806	0.11	169	0.132	<20	3.14	0.008	0.07	<0.1	0.03	0.1	<0.05	43.0	<0.5	15	<0.2	

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QUALITY CONTROL REPORT

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	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45PA	Standard		0.7	600.8	20.9	111	0.3	300.5	108.8	1128	17.14	4.6	41.8	6.2	15	0.2	0.1	0.2	221	0.23
STD OREAS45PA	Standard		1.0	594.9	21.0	119	0.3	288.3	109.8	1106	16.20	4.1	45.5	7.6	14	0.1	0.1	0.2	219	0.25
STD OXC72	Standard	201																		
STD OXC72	Standard	195																		
STD OXC72	Standard	209																		
STD OXC72	Standard	197																		
STD OXH66	Standard	1245																		
STD OXH66	Standard	1191																		
STD OXH66	Standard	1284																		
STD OXH66	Standard	1344																		
STD OXH66	Standard	1245																		
STD R4T	Standard																			
STD SU-1B	Standard																			
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	50	70	4.4	72	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411
STD OXH66 Expected		1285																		
STD OXC72 Expected		205																		
STD R4T Expected																				
STD OREAS131A Expected																				
STD SU-1B Expected																				
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		

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QUALITY CONTROL REPORT

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		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm	7TD Mo %
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001
STD OREAS45PA	Standard	0.033	17	830	0.10	186	0.132	<20	3.57	0.006	0.07	<0.1	0.03	0.1	<0.05	41.4	<0.5	18	0.3	
STD OREAS45PA	Standard	0.034	16	799	0.11	186	0.135	<20	3.13	0.008	0.07	<0.1	0.03	<0.1	<0.05	41.2	0.5	17	<0.2	
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXC72	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD OXH66	Standard																			
STD R4T	Standard																			0.066
STD SU-1B	Standard																			<0.001
STD DS7 Expected		0.08	13	192	1.05	410	0.124	39	1.0195	0.089	0.44	3.4	0.21	4.2	0.19	2.5	3.5	5	1.18	
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8		
STD OXH66 Expected																				
STD OXC72 Expected																				
STD R4T Expected																				0.062
STD OREAS131A Expected																				0.001
STD SU-1B Expected																				0.0004
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			
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		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
Prep Wash																						
G1	Prep Blank		<2	1.6	10.5	2.8	44	<0.1	3.6	3.8	517	1.58	<0.5	1.0	4.8	39	<0.1	<0.1	<0.1	32	0.37	
G1	Prep Blank			1.0	7.8	2.9	45	<0.1	3.0	3.9	551	1.80	<0.5	0.8	5.3	49	<0.1	<0.1	<0.1	36	0.42	
G1	Prep Blank		<2																			



Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Ranex Exploration**
 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana

Report Date: December 06, 2010

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

SMI10000747.2

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD		
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Mo	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				<0.001
Prep Wash																					
G1	Prep Blank	0.076	10	12	0.49	154	0.116	<20	0.74	0.044	0.46	<0.1	<0.01	0.3	<0.05	1.7	<0.5	4	<0.2	N.A.	
G1	Prep Blank	0.075	11	9	0.52	164	0.129	<20	0.83	0.073	0.49	<0.1	<0.01	0.3	<0.05	1.8	<0.5	4	<0.2	N.A.	
G1	Prep Blank																				



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 22, 2010
Report Date: November 15, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000756.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 25

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	25	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	25	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	25	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: November 15, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000756.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162759	Drill Core	7.48	<2	4.6	188.8	2.4	23	0.1	7.8	8.8	195	2.29	0.8	1.6	10.1	24	<0.1	<0.1	<0.1	63	0.67
162760	Drill Core	6.91	<2	3.8	109.8	2.2	23	<0.1	7.9	8.6	196	2.29	0.9	0.9	11.1	24	<0.1	<0.1	<0.1	64	0.67
162761	Drill Core	7.05	<2	4.2	280.7	2.0	20	0.2	8.0	8.6	191	2.28	0.8	1.5	8.2	23	<0.1	0.1	0.1	62	0.73
162762	Drill Core	5.34	<2	4.3	206.1	2.0	18	0.2	7.9	8.6	179	2.16	0.8	2.2	10.0	28	<0.1	0.1	0.1	56	0.79
162763	Drill Core	7.82	<2	107.4	387.5	2.1	19	0.3	8.7	8.3	200	2.17	1.1	1.9	9.9	32	<0.1	0.2	0.1	55	0.96
162876	Drill Core	6.30	<2	8.7	165.3	1.8	17	0.1	7.7	6.5	155	2.15	1.0	0.5	9.1	40	<0.1	<0.1	<0.1	56	0.67
162877	Drill Core	7.52	<2	9.4	372.9	1.9	18	0.4	8.4	7.0	182	2.39	1.6	<0.5	10.0	21	<0.1	<0.1	<0.1	62	0.87
162878	Drill Core	7.74	<2	48.0	405.2	2.2	18	0.3	8.1	8.6	175	2.42	2.2	2.3	8.9	28	<0.1	0.2	0.1	60	1.04
162879	Drill Core	7.36	<2	11.4	404.2	2.1	17	0.3	8.6	8.4	179	2.42	7.1	7.5	8.4	24	<0.1	0.3	0.1	61	0.97
162880	Rock	1.80	<2	0.3	9.8	3.0	5	<0.1	0.5	0.3	27	0.13	0.7	<0.5	10.3	3	<0.1	<0.1	<0.1	<2	0.05
162881	Drill Core	7.74	<2	15.6	368.7	1.9	17	0.2	8.0	8.1	159	2.43	1.2	1.3	8.8	19	<0.1	<0.1	0.1	63	0.87
162882	Drill Core	7.58	<2	9.5	582.8	2.0	19	0.4	8.8	11.1	177	2.48	1.2	1.8	10.2	19	<0.1	<0.1	0.1	63	0.81
162883	Drill Core	7.42	<2	8.2	214.0	2.2	21	0.2	10.2	12.3	186	2.59	8.7	1.5	8.8	47	<0.1	4.6	0.2	61	0.96
162884	Drill Core	7.44	<2	5.8	336.3	1.8	19	0.2	8.8	8.8	199	2.36	1.2	0.5	10.6	29	<0.1	<0.1	<0.1	60	0.86
162885	Drill Core	6.92	<2	23.4	124.8	3.4	16	<0.1	7.6	7.2	166	2.17	1.8	0.5	9.7	21	0.1	0.1	<0.1	56	0.72
162886	Drill Core	6.77	<2	17.7	104.6	1.8	18	<0.1	8.1	8.4	176	2.31	1.1	<0.5	10.5	22	<0.1	<0.1	<0.1	59	0.83
162887	Drill Core	6.56	2	105.6	692.1	2.4	24	0.5	9.0	12.6	221	2.47	6.2	2.6	10.0	26	<0.1	1.6	0.3	61	0.89
162888	Drill Core	7.40	<2	18.0	122.1	3.0	19	0.1	8.6	9.7	192	2.43	1.7	1.9	7.3	27	<0.1	0.2	0.3	60	0.97
162889	Drill Core	7.46	<2	85.4	227.1	2.1	24	0.2	9.2	11.9	223	2.62	3.2	1.2	8.6	29	<0.1	2.3	0.2	64	0.96
162890	Drill Core	5.95	<2	22.6	244.7	1.8	21	0.2	8.4	11.8	209	2.37	1.3	1.1	7.8	92	<0.1	0.1	0.2	60	1.11
162891	Drill Core	7.47	<2	9.5	79.6	2.0	18	<0.1	7.5	7.8	196	2.28	1.2	<0.5	7.7	28	<0.1	0.2	<0.1	57	0.99
162892	Drill Core	7.41	<2	4.9	130.4	1.7	16	<0.1	7.3	7.7	159	2.18	1.1	<0.5	9.4	27	<0.1	0.2	<0.1	57	0.73
162893	Drill Core	7.40	<2	9.5	94.7	1.6	15	<0.1	7.0	6.9	155	2.15	1.1	<0.5	9.4	27	<0.1	0.2	<0.1	57	0.71
162894	Drill Core	7.43	<2	12.6	197.3	1.6	17	0.3	7.6	8.2	172	2.26	1.0	1.8	10.8	33	<0.1	0.2	<0.1	59	0.75
162895	Drill Core	6.73	<2	14.6	203.0	1.8	19	0.2	7.7	8.1	204	2.20	0.9	0.6	12.2	48	<0.1	0.1	0.1	57	0.87



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 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana
 Report Date: November 15, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI10000756.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162759	Drill Core	0.093	10	24	0.59	182	0.140	<20	0.84	0.082	0.29	1.9	<0.01	0.2	0.14	1.8	<0.5	5	<0.2
162760	Drill Core	0.099	10	24	0.60	197	0.142	<20	0.83	0.076	0.29	1.0	<0.01	0.2	0.10	1.9	<0.5	4	<0.2
162761	Drill Core	0.096	9	25	0.64	165	0.143	<20	0.87	0.068	0.30	2.1	<0.01	0.2	0.16	2.0	<0.5	5	<0.2
162762	Drill Core	0.089	9	25	0.60	201	0.138	<20	0.84	0.067	0.29	2.2	<0.01	0.2	0.19	2.1	<0.5	5	<0.2
162763	Drill Core	0.092	9	25	0.62	211	0.122	<20	0.84	0.061	0.25	11.2	<0.01	0.2	0.17	2.2	<0.5	5	<0.2
162876	Drill Core	0.098	10	26	0.52	156	0.133	<20	0.73	0.068	0.24	3.1	<0.01	0.1	0.06	1.4	<0.5	4	<0.2
162877	Drill Core	0.097	12	29	0.64	148	0.157	<20	0.85	0.065	0.24	7.3	<0.01	0.1	0.13	2.0	<0.5	5	<0.2
162878	Drill Core	0.098	11	29	0.63	166	0.156	<20	0.89	0.060	0.22	12.2	<0.01	<0.1	0.22	2.0	<0.5	5	<0.2
162879	Drill Core	0.103	11	27	0.65	144	0.153	<20	0.87	0.062	0.22	4.6	<0.01	<0.1	0.20	2.1	<0.5	5	<0.2
162880	Rock	0.002	4	7	<0.01	10	0.003	<20	0.17	0.040	0.12	0.9	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
162881	Drill Core	0.099	10	28	0.60	155	0.158	<20	0.86	0.067	0.24	7.4	<0.01	0.1	0.17	1.6	<0.5	5	0.2
162882	Drill Core	0.096	10	30	0.67	151	0.158	<20	0.88	0.060	0.29	10.9	<0.01	0.1	0.34	2.2	0.7	5	<0.2
162883	Drill Core	0.099	10	27	0.68	187	0.158	<20	0.87	0.061	0.27	8.8	<0.01	0.1	0.33	2.2	0.6	5	<0.2
162884	Drill Core	0.096	10	27	0.68	182	0.138	<20	0.82	0.057	0.27	4.7	<0.01	0.1	0.13	2.3	<0.5	5	0.3
162885	Drill Core	0.091	10	24	0.55	143	0.124	<20	0.74	0.063	0.22	0.7	<0.01	<0.1	0.06	1.6	<0.5	5	<0.2
162886	Drill Core	0.094	10	26	0.61	223	0.139	<20	0.82	0.059	0.23	2.9	<0.01	0.1	0.20	1.9	<0.5	5	<0.2
162887	Drill Core	0.091	9	24	0.82	179	0.151	<20	0.97	0.052	0.33	6.0	<0.01	0.2	0.59	3.3	0.6	5	<0.2
162888	Drill Core	0.094	9	27	0.71	142	0.146	<20	0.90	0.050	0.24	2.8	<0.01	0.1	0.40	2.5	<0.5	5	<0.2
162889	Drill Core	0.094	9	26	0.80	180	0.164	<20	0.99	0.060	0.36	3.4	<0.01	0.2	0.43	3.4	<0.5	5	<0.2
162890	Drill Core	0.089	9	25	0.75	239	0.143	<20	0.99	0.050	0.31	1.8	<0.01	0.2	0.36	2.8	<0.5	5	<0.2
162891	Drill Core	0.090	10	25	0.64	125	0.120	<20	0.84	0.054	0.19	5.6	<0.01	<0.1	0.14	2.0	<0.5	4	<0.2
162892	Drill Core	0.094	10	25	0.58	165	0.136	<20	0.79	0.060	0.23	1.4	<0.01	0.1	0.11	1.4	<0.5	5	<0.2
162893	Drill Core	0.091	10	26	0.53	147	0.126	<20	0.75	0.065	0.21	0.7	<0.01	<0.1	<0.05	1.5	<0.5	4	<0.2
162894	Drill Core	0.096	10	26	0.59	159	0.130	<20	0.79	0.054	0.25	3.8	<0.01	0.1	0.12	1.6	<0.5	4	<0.2
162895	Drill Core	0.086	9	24	0.65	166	0.124	<20	0.91	0.059	0.27	2.5	<0.01	0.1	0.15	2.2	<0.5	5	<0.2



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Project: Sultana
 Report Date: November 15, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI10000756.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
Pulp Duplicates																						
162761	Drill Core	7.05	<2	4.2	280.7	2.0	20	0.2	8.0	8.6	191	2.28	0.8	1.5	8.2	23	<0.1	0.1	0.1	62	0.73	
REP 162761	QC		<2																			
162763	Drill Core	7.82	<2	107.4	387.5	2.1	19	0.3	8.7	8.3	200	2.17	1.1	1.9	9.9	32	<0.1	0.2	0.1	55	0.96	
REP 162763	QC			109.8	398.9	2.2	20	0.2	8.5	8.3	207	2.21	1.0	1.8	9.8	34	<0.1	0.1	0.1	56	0.98	
Reference Materials																						
STD DS7	Standard			21.1	110.0	73.9	399	0.9	58.5	9.7	634	2.44	52.8	50.2	4.7	73	6.0	4.3	4.7	81	0.98	
STD OREAS45PA	Standard			0.8	591.0	18.8	112	0.3	296.9	105.5	1137	15.72	4.2	43.8	6.6	13	0.1	0.1	0.2	217	0.25	
STD OXC72	Standard			195																		
STD OXC72	Standard			197																		
STD OXH66	Standard			1284																		
STD OXH66	Standard			1278																		
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	
STD OXH66 Expected				1285																		
STD OXC72 Expected				205																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
Prep Wash																						
G1	Prep Blank			<2	0.3	7.3	3.3	46	<0.1	2.9	4.3	558	1.88	<0.5	<0.5	6.3	51	<0.1	<0.1	0.1	37	0.47
G1	Prep Blank			<2	0.5	6.3	3.3	45	<0.1	3.3	4.6	571	1.89	<0.5	0.6	6.8	51	<0.1	<0.1	<0.1	38	0.50



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Project: Sultana
 Report Date: November 15, 2010

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QUALITY CONTROL REPORT

SMI10000756.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																			
162761	Drill Core	0.096	9	25	0.64	165	0.143	<20	0.87	0.068	0.30	2.1	<0.01	0.2	0.16	2.0	<0.5	5	<0.2
REP 162761	QC																		
162763	Drill Core	0.092	9	25	0.62	211	0.122	<20	0.84	0.061	0.25	11.2	<0.01	0.2	0.17	2.2	<0.5	5	<0.2
REP 162763	QC	0.094	10	26	0.63	221	0.121	<20	0.85	0.062	0.26	11.2	<0.01	0.1	0.17	2.3	<0.5	5	<0.2
Reference Materials																			
STD DS7	Standard	0.080	14	212	1.07	420	0.118	35	1.05	0.100	0.45	3.4	0.21	4.4	0.20	2.7	3.3	5	1.4
STD OREAS45PA	Standard	0.034	15	847	0.11	177	0.122	<20	3.38	0.007	0.07	<0.1	0.03	<0.1	<0.05	42.6	<0.5	17	<0.2
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8	
STD OXH66 Expected																			
STD OXC72 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.081	12	10	0.54	169	0.127	<20	0.93	0.080	0.48	<0.1	<0.01	0.3	<0.05	2.1	<0.5	5	<0.2
G1	Prep Blank	0.079	14	11	0.54	176	0.131	<20	0.96	0.086	0.50	0.1	<0.01	0.3	<0.05	2.2	<0.5	5	<0.2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 26, 2010
Report Date: November 16, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000763.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	19	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	20	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	20	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: November 16, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000763.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162896	Drill Core	7.52	<2	15.4	121.3	2.6	21	0.2	8.8	9.6	238	2.43	1.3	2.4	10.9	45	<0.1	0.1	0.2	58	1.12
162897	Drill Core	6.38	<2	15.8	247.2	9.5	26	0.3	9.1	9.1	270	2.61	1.7	3.9	9.0	32	<0.1	0.1	0.4	62	1.05
162898	Drill Core	7.36	<2	19.1	238.0	2.3	21	0.2	9.4	7.4	238	2.37	2.3	2.3	7.6	50	<0.1	0.6	0.4	54	1.20
162899	Drill Core	7.13	<2	53.2	153.1	2.2	20	0.1	8.4	9.1	267	2.44	1.4	<0.5	7.7	71	<0.1	0.1	0.2	55	1.28
162900	Rock Pulp	0.09	1416	201.3	9469	74.9	118	4.5	33.0	18.9	337	4.13	40.7	1453	9.3	49	2.3	8.8	3.5	48	1.37
129001	Drill Core	6.99	<2	43.5	45.5	4.4	21	<0.1	7.7	7.3	218	2.32	3.2	2.4	8.0	28	<0.1	0.3	0.1	54	1.22
129002	Drill Core	7.18	<2	17.8	108.0	38.8	20	0.1	7.3	7.5	190	2.28	3.2	1.7	8.9	23	<0.1	0.2	0.2	52	1.04
129003	Drill Core	6.86	3	12.2	414.9	2.4	19	0.4	8.8	8.2	205	2.44	1.0	0.8	9.1	24	<0.1	<0.1	1.1	60	0.89
129004	Drill Core	7.60	3	9.8	1035	2.9	25	1.5	8.2	8.7	221	2.43	1.4	7.1	9.7	24	0.1	0.1	1.8	58	0.82
129005	Drill Core	6.93	<2	10.3	156.0	1.7	17	0.1	7.6	7.9	184	2.29	0.9	<0.5	11.2	22	<0.1	<0.1	0.5	59	0.67
129006	Drill Core	7.71	<2	11.8	247.7	4.6	23	0.3	8.9	8.7	253	2.39	8.5	1.9	11.5	34	<0.1	0.6	0.5	55	1.17
129007	Drill Core	7.69	<2	27.6	333.2	2.7	25	0.4	7.4	9.0	214	2.22	2.9	2.2	10.4	68	<0.1	1.9	0.2	55	0.79
129008	Drill Core	7.05	<2	63.3	133.9	1.8	21	<0.1	7.4	7.0	186	2.07	0.8	1.2	9.7	23	<0.1	<0.1	<0.1	57	0.56
129009	Drill Core	7.09	<2	6.5	1498	1.6	21	2.0	8.2	7.3	180	2.25	0.8	0.9	9.9	22	<0.1	0.1	0.3	57	0.61
129010	Drill Core	7.33	<2	13.0	269.2	1.6	17	0.2	7.8	7.5	158	2.13	0.8	1.5	10.9	17	<0.1	<0.1	<0.1	56	0.61
129011	Drill Core	7.21	<2	8.3	293.5	2.2	16	0.2	8.3	7.6	178	2.26	0.6	0.8	9.4	20	<0.1	<0.1	0.2	59	0.67
129012	Drill Core	6.54	<2	685.5	222.3	2.1	20	0.3	8.3	7.7	185	2.29	2.9	1.1	10.6	25	<0.1	0.3	0.1	57	0.85
129013	Drill Core	7.26	<2	11.5	184.4	3.4	18	0.1	8.8	7.6	180	2.26	0.6	0.7	9.3	58	<0.1	0.1	0.1	58	0.85
129014	Drill Core	7.99	<2	9.7	689.7	1.8	21	0.3	9.3	9.1	182	2.40	0.7	<0.5	8.3	28	<0.1	<0.1	0.1	62	0.76
129015	Drill Core	6.57	<2	3.5	223.5	2.0	20	0.2	8.7	7.9	192	2.26	4.1	2.0	10.4	27	0.1	0.1	0.2	59	0.81



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Project: Sultana
 Report Date: November 16, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI10000763.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162896	Drill Core	0.088	10	25	0.73	141	0.125	<20	0.98	0.059	0.25	0.8	<0.01	0.1	0.26	2.2	0.6	5	<0.2
162897	Drill Core	0.091	11	27	0.76	159	0.142	<20	0.96	0.054	0.30	3.9	<0.01	0.2	0.38	2.6	<0.5	5	<0.2
162898	Drill Core	0.091	10	25	0.72	108	0.114	<20	0.95	0.056	0.19	1.6	<0.01	<0.1	0.39	2.5	0.7	5	<0.2
162899	Drill Core	0.091	10	25	0.76	155	0.113	<20	0.95	0.059	0.19	2.7	<0.01	<0.1	0.29	2.6	0.6	5	<0.2
162900	Rock Pulp	0.059	17	56	0.79	33	0.031	<20	1.15	0.031	0.43	3.1	0.19	0.3	2.29	4.4	5.4	4	0.3
129001	Drill Core	0.089	10	24	0.64	85	0.125	<20	0.90	0.057	0.16	1.5	<0.01	0.1	0.20	1.9	<0.5	5	<0.2
129002	Drill Core	0.084	9	24	0.55	117	0.121	<20	0.83	0.057	0.20	1.2	<0.01	<0.1	0.23	1.8	<0.5	4	<0.2
129003	Drill Core	0.084	9	20	0.69	158	0.163	<20	1.01	0.093	0.30	4.7	<0.01	0.1	0.46	2.2	<0.5	5	0.7
129004	Drill Core	0.088	9	24	0.73	166	0.144	<20	0.94	0.058	0.28	1.8	<0.01	0.2	0.58	2.2	0.9	5	0.8
129005	Drill Core	0.092	10	26	0.56	180	0.133	<20	0.74	0.077	0.29	1.2	<0.01	0.1	0.21	1.6	<0.5	4	0.3
129006	Drill Core	0.089	10	25	0.65	173	0.106	<20	0.80	0.064	0.32	1.2	<0.01	0.2	0.38	3.1	<0.5	4	<0.2
129007	Drill Core	0.083	10	24	0.53	175	0.116	<20	0.78	0.071	0.28	3.1	<0.01	0.1	0.18	1.7	<0.5	4	<0.2
129008	Drill Core	0.087	9	25	0.50	191	0.135	<20	0.67	0.070	0.31	0.7	<0.01	0.2	<0.05	1.3	<0.5	3	<0.2
129009	Drill Core	0.087	9	25	0.57	183	0.140	<20	0.74	0.070	0.30	11.0	<0.01	0.2	0.27	1.7	0.9	4	<0.2
129010	Drill Core	0.087	9	26	0.55	171	0.144	<20	0.71	0.059	0.27	2.0	<0.01	0.1	0.15	1.4	<0.5	4	<0.2
129011	Drill Core	0.089	9	28	0.58	175	0.146	<20	0.78	0.069	0.29	3.3	<0.01	0.1	0.24	1.5	<0.5	4	<0.2
129012	Drill Core	0.088	9	25	0.61	165	0.137	<20	0.79	0.057	0.27	61.5	<0.01	0.2	0.21	1.8	<0.5	4	<0.2
129013	Drill Core	0.092	9	23	0.63	195	0.140	<20	0.90	0.058	0.27	1.8	<0.01	0.1	0.21	1.6	<0.5	4	0.3
129014	Drill Core	0.090	9	26	0.66	187	0.151	<20	0.88	0.064	0.31	7.4	<0.01	0.1	0.29	1.9	<0.5	4	<0.2
129015	Drill Core	0.090	11	25	0.59	171	0.132	<20	0.82	0.069	0.29	4.2	<0.01	0.2	0.21	1.7	<0.5	4	<0.2



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Smithers BC V0J 2N0 Canada

Project: Sultana
Report Date: November 16, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

SMI10000763.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
Pulp Duplicates																						
129005	Drill Core	6.93	<2	10.3	156.0	1.7	17	0.1	7.6	7.9	184	2.29	0.9	<0.5	11.2	22	<0.1	<0.1	0.5	59	0.67	
REP 129005	QC			6.9	156.0	1.8	16	0.1	7.4	8.1	186	2.28	0.9	1.4	11.4	22	<0.1	<0.1	0.5	59	0.67	
Core Reject Duplicates																						
129001	Drill Core	6.99	<2	43.5	45.5	4.4	21	<0.1	7.7	7.3	218	2.32	3.2	2.4	8.0	28	<0.1	0.3	0.1	54	1.22	
DUP 129001	QC		<2	49.2	43.0	4.4	22	<0.1	8.9	7.3	215	2.30	3.2	1.3	8.6	28	<0.1	0.2	0.1	53	1.18	
Reference Materials																						
STD DS7	Standard			19.9	108.3	71.6	386	1.0	58.0	9.1	598	2.34	49.5	111.6	4.4	66	5.8	3.7	4.7	78	0.91	
STD OREAS45PA	Standard			0.9	581.4	21.2	112	0.3	286.2	108.2	1133	16.14	3.9	49.9	7.3	13	<0.1	0.1	0.2	219	0.24	
STD OXC72	Standard			196																		
STD OXH66	Standard			1275																		
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	
STD OXH66 Expected				1285																		
STD OXC72 Expected				205																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank			<2																		
BLK	Blank			<2																		
Prep Wash																						
G1	Prep Blank			<2	0.3	15.5	3.2	46	<0.1	2.7	4.2	565	1.90	<0.5	4.2	5.8	52	<0.1	<0.1	0.1	37	0.48
G1	Prep Blank			<2	0.5	14.9	3.2	46	<0.1	2.6	4.0	552	1.82	<0.5	4.0	6.3	51	<0.1	<0.1	0.1	35	0.46



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Project: Sultana
 Report Date: November 16, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

SMI10000763.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																				
129005	Drill Core	0.092	10	26	0.56	180	0.133	<20	0.74	0.077	0.29	1.2	<0.01	0.1	0.21	1.6	<0.5	4	0.3	
REP 129005	QC	0.087	10	26	0.56	178	0.132	<20	0.75	0.075	0.29	1.3	<0.01	0.1	0.22	1.6	<0.5	4	<0.2	
Core Reject Duplicates																				
129001	Drill Core	0.089	10	24	0.64	85	0.125	<20	0.90	0.057	0.16	1.5	<0.01	0.1	0.20	1.9	<0.5	5	<0.2	
DUP 129001	QC	0.085	10	24	0.63	81	0.119	<20	0.90	0.058	0.16	1.2	<0.01	<0.1	0.20	1.9	<0.5	5	<0.2	
Reference Materials																				
STD DS7	Standard	0.071	11	196	1.03	421	0.116	32	0.99	0.091	0.45	2.8	0.24	4.0	0.20	2.2	3.3	4	0.7	
STD OREAS45PA	Standard	0.032	16	826	0.10	184	0.134	<20	3.21	0.005	0.07	<0.1	0.02	<0.1	<0.05	42.6	0.5	16	<0.2	
STD OXC72	Standard																			
STD OXH66	Standard																			
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08	
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8		
STD OXH66 Expected																				
STD OXC72 Expected																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
G1	Prep Blank	0.078	12	11	0.53	179	0.130	<20	0.90	0.081	0.50	<0.1	<0.01	0.3	<0.05	1.9	<0.5	4	<0.2	
G1	Prep Blank	0.075	10	10	0.53	179	0.129	<20	0.89	0.074	0.50	<0.1	0.01	0.3	<0.05	1.8	<0.5	5	<0.2	



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 26, 2010
Report Date: November 16, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI10000769.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
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CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	20	Crush split and pulverize 250g drill core to 200 mesh			SMI
1DX	20	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
3B	20	Fire assay fusion Au by ICP-ES	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Sultana
 Report Date: November 16, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

SMI10000769.1

Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
129016	Drill Core	7.40	10.9	275.9	2.2	23	0.2	7.9	7.3	186	2.16	0.5	2.5	9.4	28	0.1	0.1	<0.1	57	0.81	0.087
129017	Drill Core	7.38	7.4	185.0	2.7	22	0.3	7.9	8.5	216	2.18	4.7	<0.5	9.7	29	<0.1	2.4	0.1	55	0.95	0.091
129018	Drill Core	6.66	5.5	306.8	1.8	22	0.4	8.4	8.7	227	2.37	2.7	3.0	8.8	35	<0.1	1.3	0.9	55	1.13	0.088
129019	Drill Core	7.50	12.1	542.2	1.8	20	0.3	7.9	7.7	174	2.13	<0.5	0.5	10.1	33	<0.1	<0.1	0.1	56	0.65	0.085
129020	Rock	0.87	0.3	11.9	3.8	5	<0.1	0.4	0.4	32	0.18	<0.5	1.6	18.0	4	<0.1	<0.1	0.2	<2	0.06	0.002
129021	Drill Core	7.22	6.7	510.2	1.5	21	0.5	8.3	9.0	189	2.14	0.6	<0.5	10.3	36	<0.1	<0.1	0.1	55	0.81	0.082
129022	Drill Core	8.13	7.0	417.1	10.4	62	1.0	8.0	8.2	346	2.26	16.8	2.7	10.7	78	0.5	1.4	2.3	44	1.50	0.079
129023	Drill Core	7.62	5.2	276.8	1.9	24	0.3	8.5	8.6	209	2.27	0.8	<0.5	10.6	64	<0.1	0.1	0.2	59	0.77	0.085
129024	Drill Core	7.27	7.2	148.3	2.0	18	0.1	7.5	7.4	175	2.05	0.7	<0.5	10.7	83	<0.1	0.1	0.2	52	0.81	0.082
129025	Drill Core	7.10	7.9	359.7	2.0	22	0.3	8.2	7.9	190	2.08	0.7	<0.5	9.4	22	<0.1	<0.1	0.1	57	0.68	0.084
129026	Drill Core	7.68	39.5	420.2	2.0	23	0.3	8.7	8.6	220	2.13	0.8	<0.5	12.0	29	<0.1	0.1	0.1	59	0.84	0.087
129027	Drill Core	7.46	21.4	265.2	1.7	21	0.2	7.6	8.6	225	2.18	0.6	<0.5	9.8	45	<0.1	0.1	0.1	56	0.76	0.083
129028	Drill Core	7.49	7.5	216.6	1.7	20	0.1	7.4	7.8	185	2.14	0.5	<0.5	9.3	27	<0.1	<0.1	<0.1	59	0.70	0.086
129029	Drill Core	7.65	11.2	301.3	2.0	19	0.2	7.7	6.9	175	2.08	<0.5	<0.5	9.4	20	<0.1	<0.1	0.1	55	0.68	0.079
129030	Drill Core	7.57	4.0	169.6	2.0	21	0.4	6.7	7.2	177	2.00	0.8	<0.5	10.6	19	<0.1	<0.1	0.3	54	0.64	0.076
129031	Drill Core	7.28	6.1	278.2	1.9	19	0.3	6.9	7.0	174	2.07	0.5	0.5	12.2	17	<0.1	<0.1	1.2	53	0.65	0.077
129032	Drill Core	7.34	6.3	392.3	2.4	25	0.4	8.0	7.6	197	2.09	10.1	1.4	11.5	22	0.1	2.9	0.2	52	0.85	0.076
129033	Drill Core	7.55	6.5	169.6	2.0	17	<0.1	7.0	6.3	169	1.99	0.7	<0.5	11.9	30	<0.1	<0.1	<0.1	51	0.75	0.072
129034	Drill Core	6.59	4.7	99.2	2.1	17	<0.1	7.3	6.9	167	1.97	<0.5	<0.5	12.2	42	<0.1	<0.1	<0.1	51	0.74	0.073
129035	Drill Core	6.96	3.9	288.4	1.9	18	0.2	8.0	7.8	182	2.10	0.7	<0.5	10.4	34	<0.1	<0.1	0.1	52	0.77	0.073



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Project: Sultana
 Report Date: November 16, 2010

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CERTIFICATE OF ANALYSIS

SMI10000769.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	3B	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Au	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	2	
129016	Drill Core	11	23	0.58	149	0.128	<20	0.85	0.062	0.24	2.9	<0.01	0.1	0.13	1.6	<0.5	4	<0.2	<2
129017	Drill Core	10	24	0.57	139	0.114	<20	0.81	0.061	0.24	2.6	<0.01	<0.1	0.17	2.2	<0.5	4	<0.2	<2
129018	Drill Core	11	23	0.61	138	0.117	<20	0.89	0.056	0.26	3.0	<0.01	0.1	0.27	2.7	<0.5	4	0.8	<2
129019	Drill Core	9	24	0.58	175	0.141	<20	0.81	0.067	0.29	1.9	<0.01	0.2	0.17	1.7	<0.5	4	<0.2	<2
129020	Rock	2	5	0.02	8	0.006	<20	0.24	0.062	0.10	13.8	<0.01	<0.1	<0.05	0.8	<0.5	1	<0.2	<2
129021	Drill Core	9	24	0.60	183	0.132	<20	0.80	0.061	0.30	9.7	<0.01	0.2	0.24	2.0	<0.5	4	<0.2	<2
129022	Drill Core	10	20	0.57	148	0.064	<20	0.90	0.046	0.27	3.3	<0.01	0.1	0.45	2.7	0.5	4	1.1	<2
129023	Drill Core	9	24	0.70	182	0.138	<20	0.91	0.061	0.29	12.2	<0.01	0.1	0.33	2.4	<0.5	5	<0.2	<2
129024	Drill Core	9	23	0.55	175	0.115	<20	0.83	0.061	0.25	0.9	<0.01	<0.1	0.21	1.5	<0.5	4	<0.2	<2
129025	Drill Core	10	25	0.59	171	0.137	23	0.80	0.072	0.27	3.4	<0.01	0.1	0.16	1.7	<0.5	5	<0.2	<2
129026	Drill Core	10	26	0.66	222	0.144	<20	0.83	0.068	0.30	8.2	<0.01	0.2	0.19	2.5	0.6	4	<0.2	<2
129027	Drill Core	10	23	0.62	170	0.126	<20	0.85	0.067	0.29	16.9	<0.01	0.1	0.22	2.0	<0.5	4	<0.2	<2
129028	Drill Core	10	21	0.61	293	0.144	<20	0.81	0.069	0.28	2.6	<0.01	0.2	0.15	1.9	<0.5	5	<0.2	<2
129029	Drill Core	9	26	0.55	151	0.135	<20	0.79	0.069	0.26	2.0	<0.01	0.1	0.15	1.5	<0.5	4	<0.2	<2
129030	Drill Core	10	26	0.52	154	0.127	<20	0.73	0.073	0.28	3.2	<0.01	0.1	0.15	1.7	<0.5	4	0.2	<2
129031	Drill Core	10	26	0.53	147	0.136	<20	0.75	0.072	0.26	2.5	<0.01	0.1	0.17	1.5	<0.5	4	0.4	<2
129032	Drill Core	10	23	0.58	140	0.129	<20	0.81	0.063	0.27	1.4	<0.01	0.1	0.20	2.0	<0.5	5	<0.2	<2
129033	Drill Core	9	24	0.53	142	0.127	<20	0.80	0.065	0.24	10.1	<0.01	<0.1	0.08	1.4	<0.5	4	<0.2	<2
129034	Drill Core	9	23	0.51	185	0.124	<20	0.75	0.067	0.27	2.5	<0.01	0.1	<0.05	1.3	<0.5	4	<0.2	<2
129035	Drill Core	9	24	0.55	159	0.123	<20	0.81	0.065	0.25	21.6	<0.01	0.1	0.25	1.6	<0.5	4	<0.2	<2



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 Report Date: November 16, 2010

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QUALITY CONTROL REPORT

SMI10000769.1

Method	WGHT	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
129017	Drill Core	7.38	7.4	185.0	2.7	22	0.3	7.9	8.5	216	2.18	4.7	<0.5	9.7	29	<0.1	2.4	0.1	55	0.95	0.091
REP 129017	QC																				
REP 129035	QC		4.4	282.8	2.1	18	0.3	7.9	7.7	180	2.10	0.5	<0.5	10.3	35	<0.1	<0.1	0.1	52	0.77	0.075
Core Reject Duplicates																					
129035	Drill Core	6.96	3.9	288.4	1.9	18	0.2	8.0	7.8	182	2.10	0.7	<0.5	10.4	34	<0.1	<0.1	0.1	52	0.77	0.073
DUP 129035	QC		4.8	317.8	2.1	17	0.3	7.6	8.3	184	2.22	0.8	<0.5	12.1	40	<0.1	0.1	0.1	55	0.80	0.077
Reference Materials																					
STD DS7	Standard		21.7	105.2	72.2	393	1.1	55.5	9.3	602	2.35	48.1	51.5	4.5	67	5.9	3.8	4.3	80	0.94	0.070
STD OREAS45PA	Standard		0.8	589.1	21.7	112	0.3	295.9	108.7	1118	16.03	3.4	42.8	7.7	13	<0.1	<0.1	0.2	215	0.23	0.032
STD OXC72	Standard																				
STD OXC72	Standard																				
STD OXH66	Standard																				
STD OXH66	Standard																				
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	0.034
STD OXH66 Expected																					
STD OXC72 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		1.0	8.2	3.4	47	<0.1	2.4	4.2	556	1.89	<0.5	9.8	6.1	51	<0.1	<0.1	<0.1	37	0.47	0.076
G1	Prep Blank		0.3	10.4	3.4	48	<0.1	3.0	4.3	566	1.85	<0.5	3.2	5.8	54	<0.1	<0.1	<0.1	36	0.50	0.072



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Project: Sultana
 Report Date: November 16, 2010

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QUALITY CONTROL REPORT

SMI10000769.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	3B
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Au	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	2	
Pulp Duplicates																			
129017	Drill Core	10	24	0.57	139	0.114	<20	0.81	0.061	0.24	2.6	<0.01	<0.1	0.17	2.2	<0.5	4	<0.2	<2
REP 129017	QC																		<2
REP 129035	QC	9	24	0.55	162	0.128	<20	0.80	0.063	0.25	21.3	<0.01	0.1	0.25	1.6	<0.5	4	<0.2	
Core Reject Duplicates																			
129035	Drill Core	9	24	0.55	159	0.123	<20	0.81	0.065	0.25	21.6	<0.01	0.1	0.25	1.6	<0.5	4	<0.2	<2
DUP 129035	QC	10	25	0.55	153	0.125	<20	0.81	0.067	0.24	25.8	<0.01	<0.1	0.32	1.7	<0.5	4	<0.2	<2
Reference Materials																			
STD DS7	Standard	12	197	1.04	397	0.116	35	1.01	0.095	0.46	3.0	0.20	3.9	0.19	2.4	2.9	5	1.0	
STD OREAS45PA	Standard	17	851	0.11	187	0.128	<20	3.40	0.009	0.08	<0.1	0.04	<0.1	<0.05	44.7	<0.5	17	<0.2	
STD OXC72	Standard																		197
STD OXC72	Standard																		196
STD OXH66	Standard																		1308
STD OXH66	Standard																		1275
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08	
STD OREAS45PA Expected		16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8		
STD OXH66 Expected																			1285
STD OXC72 Expected																			205
BLK	Blank																		<2
BLK	Blank																		<2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																		<2
BLK	Blank																		<2
Prep Wash																			
G1	Prep Blank	13	12	0.52	169	0.125	<20	0.92	0.083	0.49	0.1	0.02	0.3	<0.05	2.1	<0.5	5	<0.2	<2
G1	Prep Blank	13	9	0.53	169	0.127	<20	0.93	0.083	0.49	0.2	<0.01	0.3	<0.05	1.9	<0.5	5	<0.2	<2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: October 28, 2010
Report Date: November 16, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI10000771.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 40

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	40	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	40	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	40	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI10000771.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129036	Drill Core	6.67	2	10.0	74.6	2.4	19	0.1	7.4	6.6	209	2.17	1.2	<0.5	12.4	34	<0.1	<0.1	0.1	49	0.83
129037	Drill Core	7.71	2	3.0	163.6	1.8	18	0.2	7.1	7.0	182	2.08	0.9	<0.5	12.0	29	<0.1	<0.1	0.2	47	0.67
129038	Drill Core	7.29	2	12.2	205.1	1.7	22	0.2	7.3	7.5	199	2.18	0.9	0.8	11.2	43	<0.1	<0.1	0.8	49	0.65
129039	Drill Core	8.19	3	10.4	226.5	1.6	22	0.3	7.4	7.8	209	2.20	0.9	3.0	11.9	42	<0.1	<0.1	0.8	48	0.69
129040	Drill Core	6.98	<2	10.4	205.4	1.4	20	0.2	7.1	6.9	203	2.14	0.9	<0.5	12.4	40	<0.1	<0.1	0.4	50	0.70
129041	Drill Core	7.09	<2	6.2	233.9	1.7	19	0.2	7.2	7.5	182	2.15	0.8	<0.5	11.4	26	<0.1	0.1	0.1	51	0.65
129042	Drill Core	7.09	<2	33.3	301.6	1.7	21	0.3	7.6	7.8	193	2.22	0.9	<0.5	10.4	21	<0.1	<0.1	0.5	51	0.63
129043	Drill Core	7.08	2	14.1	231.4	1.6	25	0.2	7.6	7.0	196	2.16	1.2	2.2	10.5	19	<0.1	<0.1	1.1	51	0.52
129044	Drill Core	7.43	<2	40.9	256.0	1.7	22	0.2	7.6	7.2	192	2.09	1.0	0.5	13.5	31	<0.1	0.2	<0.1	49	0.66
129045	Drill Core	7.23	<2	3.4	264.2	1.7	19	0.3	7.7	8.5	191	2.20	0.8	0.6	12.7	49	<0.1	0.2	0.3	47	0.73
129046	Drill Core	7.06	<2	1.6	125.5	2.0	20	0.1	7.5	7.4	187	2.17	1.2	3.8	11.8	30	<0.1	<0.1	0.2	54	0.81
129047	Drill Core	6.91	<2	1.9	88.8	1.8	18	<0.1	7.3	7.1	182	2.08	1.1	4.2	10.3	21	<0.1	0.1	0.1	54	0.72
129048	Drill Core	3.38	<2	1.7	157.5	2.0	17	<0.1	7.7	6.8	218	2.09	1.4	3.1	8.7	60	<0.1	0.1	<0.1	53	1.19
129049	Drill Core	6.81	2	9.9	556.7	2.2	24	0.4	15.3	9.1	272	2.29	1.8	6.8	9.7	46	<0.1	0.3	0.2	50	1.44
129050	Drill Core	6.67	<2	35.9	466.6	1.9	22	0.4	8.4	7.8	232	2.18	1.2	4.0	12.6	34	<0.1	0.8	0.2	51	1.11
162763	Drill Core	6.30	<2	4.4	230.5	2.0	21	0.2	7.7	8.3	288	2.31	2.2	3.5	9.4	55	<0.1	0.3	<0.1	55	1.67
162764	Drill Core	6.87	9	15.8	705.2	5.1	22	1.6	7.1	6.8	202	2.17	1.6	5.9	10.3	88	0.1	0.2	3.9	56	0.92
162765	Drill Core	6.90	<2	52.9	461.7	2.3	29	0.7	7.9	8.8	238	2.22	1.7	5.8	10.8	54	<0.1	0.2	0.6	56	0.94
162766	Drill Core	7.45	<2	9.4	172.9	1.9	24	0.1	7.0	7.3	213	2.14	1.1	2.2	11.7	32	<0.1	0.1	<0.1	57	0.71
162767	Drill Core	7.95	3	5.7	567.9	1.8	21	0.5	6.7	6.6	192	2.13	1.0	7.5	9.6	33	0.1	<0.1	0.1	56	0.67
162768	Drill Core	6.91	8	7.8	287.7	1.6	19	0.2	7.4	7.1	189	2.20	0.8	3.9	10.7	22	<0.1	<0.1	<0.1	59	0.65
162769	Drill Core	7.14	<2	4.3	171.0	1.7	17	0.2	6.6	7.3	177	2.21	0.8	4.4	9.6	44	<0.1	0.1	<0.1	59	0.67
162770	Drill Core	7.16	3	10.5	323.0	2.1	20	0.3	8.1	10.5	191	2.39	1.1	4.1	9.2	23	<0.1	<0.1	0.1	61	0.77
162771	Drill Core	6.89	2	6.0	169.4	1.7	18	0.1	7.5	7.9	189	2.23	0.9	3.6	9.4	23	<0.1	<0.1	<0.1	61	0.70
162772	Drill Core	7.26	3	5.1	177.4	1.8	23	0.1	8.4	8.9	248	2.27	1.2	5.1	12.5	47	<0.1	<0.1	<0.1	58	0.90
162773	Drill Core	6.16	<2	2.8	107.7	1.5	18	<0.1	7.0	7.4	193	2.17	0.8	2.4	12.1	45	<0.1	<0.1	<0.1	58	0.67
162774	Drill Core	7.43	3	51.7	1503	2.7	20	1.4	8.1	10.9	189	2.53	1.5	6.5	10.7	23	0.2	0.1	0.6	51	0.81
162775	Drill Core	7.57	2	15.8	141.5	2.1	20	0.1	6.8	6.9	167	2.30	0.7	2.7	8.6	22	<0.1	<0.1	<0.1	63	0.59
162776	Drill Core	7.51	<2	4.5	759.3	1.8	21	0.8	7.0	9.5	169	2.39	1.5	3.0	10.9	21	<0.1	<0.1	0.2	59	0.63
162777	Drill Core	6.75	<2	2.6	350.3	1.8	18	0.3	7.1	7.6	172	2.27	1.3	7.7	10.9	29	<0.1	<0.1	0.1	56	0.70



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 Report Date: November 16, 2010

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Method Analyte Unit MDL	1DX P % 0.001	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX S % 0.05	1DX Sc ppm 0.1	1DX Se ppm 0.5	1DX Ga ppm 1	1DX Te ppm 0.2	
129036	Drill Core	0.091	10	24	0.59	133	0.134	<20	0.81	0.060	0.23	1.4	<0.01	0.1	0.13	1.6	<0.5	6	<0.2
129037	Drill Core	0.087	9	24	0.52	147	0.122	<20	0.76	0.060	0.26	30.5	<0.01	0.1	0.13	1.5	<0.5	5	<0.2
129038	Drill Core	0.089	10	25	0.58	177	0.141	<20	0.81	0.060	0.32	2.1	<0.01	0.1	0.27	1.7	<0.5	5	0.5
129039	Drill Core	0.095	10	24	0.59	182	0.140	<20	0.79	0.063	0.33	5.8	<0.01	0.2	0.23	1.8	<0.5	5	0.4
129040	Drill Core	0.092	10	23	0.56	181	0.137	<20	0.78	0.064	0.32	11.9	<0.01	0.2	0.20	1.7	<0.5	5	0.5
129041	Drill Core	0.092	9	24	0.56	178	0.142	<20	0.79	0.062	0.32	1.9	<0.01	0.2	0.18	1.6	<0.5	5	<0.2
129042	Drill Core	0.095	11	26	0.59	172	0.142	<20	0.80	0.064	0.33	37.9	<0.01	0.2	0.23	1.8	<0.5	5	<0.2
129043	Drill Core	0.085	10	24	0.54	182	0.151	<20	0.70	0.070	0.34	2.9	<0.01	0.2	0.17	1.6	<0.5	5	0.7
129044	Drill Core	0.090	11	25	0.56	166	0.135	<20	0.76	0.063	0.31	15.6	<0.01	0.2	0.10	1.8	<0.5	5	<0.2
129045	Drill Core	0.085	9	23	0.60	164	0.127	<20	0.85	0.057	0.30	2.0	<0.01	0.2	0.29	2.0	<0.5	5	0.3
129046	Drill Core	0.088	9	25	0.59	144	0.131	<20	0.82	0.059	0.27	1.5	<0.01	<0.1	0.25	1.6	0.6	5	<0.2
129047	Drill Core	0.085	10	23	0.54	132	0.132	<20	0.74	0.060	0.24	1.5	<0.01	<0.1	0.11	1.2	0.5	5	<0.2
129048	Drill Core	0.087	10	21	0.53	107	0.093	<20	0.82	0.053	0.17	0.6	<0.01	<0.1	0.06	1.7	0.7	5	<0.2
129049	Drill Core	0.092	13	33	0.66	83	0.076	<20	0.88	0.051	0.21	1.1	<0.01	<0.1	0.33	3.4	0.6	5	<0.2
129050	Drill Core	0.088	12	21	0.58	119	0.101	<20	0.80	0.054	0.26	2.5	<0.01	0.1	0.21	2.8	0.6	5	<0.2
162763	Drill Core	0.098	15	22	0.61	136	0.078	<20	0.85	0.054	0.18	1.0	<0.01	<0.1	0.17	2.9	0.8	5	<0.2
162764	Drill Core	0.090	10	20	0.60	148	0.113	<20	0.94	0.064	0.29	3.0	<0.01	0.1	0.19	1.9	1.2	5	0.6
162765	Drill Core	0.092	11	22	0.60	194	0.130	<20	0.83	0.061	0.37	4.0	<0.01	0.2	0.27	2.1	0.8	5	<0.2
162766	Drill Core	0.089	10	23	0.53	179	0.132	<20	0.71	0.068	0.29	1.2	<0.01	0.1	0.07	1.6	<0.5	5	<0.2
162767	Drill Core	0.091	9	23	0.54	158	0.136	<20	0.73	0.064	0.29	1.0	<0.01	0.2	0.11	1.5	0.7	5	<0.2
162768	Drill Core	0.093	9	25	0.56	156	0.135	<20	0.73	0.063	0.28	5.8	<0.01	0.2	0.07	1.4	0.6	5	<0.2
162769	Drill Core	0.092	10	24	0.54	146	0.134	<20	0.76	0.067	0.27	3.5	<0.01	0.1	0.10	1.3	<0.5	5	<0.2
162770	Drill Core	0.097	10	26	0.62	135	0.143	<20	0.82	0.065	0.26	2.7	<0.01	0.2	0.29	1.9	0.9	5	<0.2
162771	Drill Core	0.098	10	25	0.55	133	0.136	<20	0.75	0.072	0.27	2.6	<0.01	0.1	0.11	1.6	<0.5	5	<0.2
162772	Drill Core	0.091	10	23	0.68	229	0.117	<20	0.86	0.060	0.27	3.6	<0.01	0.2	0.20	2.4	0.7	5	<0.2
162773	Drill Core	0.093	9	23	0.61	171	0.138	<20	0.77	0.063	0.32	1.2	<0.01	0.1	0.13	1.7	<0.5	5	<0.2
162774	Drill Core	0.092	9	20	0.56	144	0.123	<20	0.71	0.050	0.29	33.8	<0.01	0.2	0.78	1.9	2.0	4	0.2
162775	Drill Core	0.108	11	21	0.54	138	0.143	<20	0.69	0.073	0.33	4.2	<0.01	0.2	<0.05	1.2	<0.5	5	<0.2
162776	Drill Core	0.095	11	23	0.58	144	0.157	<20	0.74	0.069	0.34	11.0	<0.01	0.2	0.18	1.5	<0.5	5	<0.2
162777	Drill Core	0.089	10	24	0.59	161	0.149	<20	0.73	0.066	0.32	2.9	<0.01	0.2	0.20	1.7	<0.5	5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Sultana
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Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
162778	Drill Core	7.03	4	5.1	685.2	1.9	18	0.6	7.7	10.1	172	2.30	1.5	7.3	11.5	32	<0.1	0.2	0.2	55	0.77
162779	Drill Core	7.45	<2	9.0	377.5	2.1	18	0.3	7.2	6.8	177	2.27	1.1	4.3	9.8	35	<0.1	<0.1	<0.1	57	0.80
162780	Rock	3.52	<2	0.1	3.3	0.5	1	<0.1	<0.1	0.4	37	0.06	4.5	2.7	3.1	3629	<0.1	<0.1	<0.1	<2	29.03
162781	Drill Core	7.57	<2	2.9	227.0	2.0	20	0.3	7.8	7.2	214	2.28	2.9	3.8	10.2	53	<0.1	0.8	0.1	54	0.97
162782	Drill Core	6.56	2	39.2	710.9	2.3	22	0.6	8.0	11.0	226	2.31	21.2	6.6	13.0	56	<0.1	8.8	0.2	45	1.19
162783	Drill Core	6.79	3	63.5	619.6	2.5	21	0.4	8.2	8.5	206	2.39	14.2	4.8	12.3	55	0.1	5.4	0.3	54	0.90
162784	Drill Core	7.10	7	11.7	320.2	1.7	18	0.2	7.0	6.6	196	2.12	7.3	3.5	14.0	64	<0.1	0.2	0.1	53	0.86
162785	Drill Core	7.50	2	1.5	266.7	2.1	24	0.2	7.1	8.1	234	2.25	9.2	4.5	10.2	67	0.1	10.2	0.1	46	1.54
162786	Drill Core	7.77	6	1.7	291.2	2.1	25	0.3	7.2	7.7	262	2.43	18.3	5.8	9.7	72	0.2	14.5	0.5	42	1.90
162787	Drill Core	5.99	3	2.2	471.8	1.7	20	0.6	8.6	8.3	187	2.30	2.5	3.7	9.8	31	<0.1	0.9	0.2	56	0.85



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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
162778	Drill Core	0.086	10	22	0.66	133	0.157	<20	0.84	0.061	0.35	4.7	<0.01	0.2	0.33	2.1	0.9	5	<0.2
162779	Drill Core	0.092	10	22	0.62	116	0.142	<20	0.83	0.061	0.26	21.2	<0.01	0.1	0.10	1.8	0.6	6	0.3
162780	Rock	0.004	<1	1	1.19	6	0.001	<20	0.08	0.007	0.04	0.9	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
162781	Drill Core	0.086	10	21	0.74	132	0.146	<20	0.88	0.050	0.28	4.7	<0.01	0.2	0.22	2.5	<0.5	6	<0.2
162782	Drill Core	0.082	13	21	0.61	171	0.116	<20	0.80	0.048	0.28	4.7	0.04	0.1	0.45	2.9	0.9	5	<0.2
162783	Drill Core	0.089	11	22	0.77	208	0.153	<20	0.93	0.054	0.37	2.4	<0.01	0.2	0.29	2.6	0.7	6	0.2
162784	Drill Core	0.083	10	22	0.64	187	0.136	<20	0.78	0.055	0.25	1.9	<0.01	0.1	0.18	1.9	0.7	5	<0.2
162785	Drill Core	0.091	14	19	0.67	208	0.098	<20	0.72	0.042	0.26	0.8	0.06	0.1	0.15	2.9	<0.5	4	<0.2
162786	Drill Core	0.087	13	17	0.56	461	0.064	<20	0.72	0.042	0.25	1.1	0.17	<0.1	0.17	3.4	<0.5	4	<0.2
162787	Drill Core	0.096	11	21	0.68	195	0.142	<20	0.88	0.057	0.33	13.3	<0.01	0.2	0.25	2.1	0.8	6	<0.2



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Project: Sultana

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QUALITY CONTROL REPORT

SMI10000771.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
129038	Drill Core	7.29	2	12.2	205.1	1.7	22	0.2	7.3	7.5	199	2.18	0.9	0.8	11.2	43	<0.1	<0.1	0.8	49	0.65
REP 129038	QC	2																			
162777	Drill Core	6.75	<2	2.6	350.3	1.8	18	0.3	7.1	7.6	172	2.27	1.3	7.7	10.9	29	<0.1	<0.1	0.1	56	0.70
REP 162777	QC	2.6		336.8	1.7	16	0.3	7.1	7.0	169	2.17	1.3	5.5	11.1	29	<0.1	<0.1	0.1	56	0.70	
Core Reject Duplicates																					
162768	Drill Core	6.91	8	7.8	287.7	1.6	19	0.2	7.4	7.1	189	2.20	0.8	3.9	10.7	22	<0.1	<0.1	<0.1	59	0.65
DUP 162768	QC	<2		7.6	293.4	1.5	18	0.2	7.2	7.4	198	2.23	0.8	5.5	8.5	23	<0.1	<0.1	<0.1	60	0.66
Reference Materials																					
STD DS7	Standard	20.4		103.9	72.6	382	1.1	52.3	8.8	628	2.35	52.2	81.8	4.9	72	6.2	4.8	4.8	81	0.93	
STD DS7	Standard	20.9		105.9	72.9	401	1.2	57.0	9.3	648	2.45	54.2	96.4	5.2	77	6.6	5.1	5.1	74	0.96	
STD OREAS45PA	Standard	1.0		586.2	21.0	122	0.4	288.3	108.6	1137	16.17	4.9	62.3	7.5	15	0.1	0.2	0.2	218	0.24	
STD OREAS45PA	Standard	0.8		583.8	20.9	120	0.4	257.7	108.9	1118	17.16	5.2	62.0	7.4	16	<0.1	0.1	0.2	230	0.25	
STD OXC72	Standard	208																			
STD OXC72	Standard	191																			
STD OXC72	Standard	196																			
STD OXH66	Standard	1265																			
STD OXH66	Standard	1204																			
STD OXH66	Standard	1275																			
STD DS7 Expected		20.5		109	70.6	411	0.9	56	9.7	627	2.39	48.2	70	4.4	69	6.4	4.6	4.5	84	0.93	
STD OREAS45PA Expected		0.9		600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411	
STD OXH66 Expected		1285																			
STD OXC72 Expected		205																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<0.1		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<0.1		<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	

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 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Ranex Exploration**
 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana
 Report Date: November 16, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

SMI10000771.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																			
129038	Drill Core	0.089	10	25	0.58	177	0.141	<20	0.81	0.060	0.32	2.1	<0.01	0.1	0.27	1.7	<0.5	5	0.5
REP 129038	QC																		
162777	Drill Core	0.089	10	24	0.59	161	0.149	<20	0.73	0.066	0.32	2.9	<0.01	0.2	0.20	1.7	<0.5	5	<0.2
REP 162777	QC	0.088	10	17	0.57	156	0.143	<20	0.71	0.064	0.31	3.2	<0.01	0.2	0.19	1.5	0.9	5	0.2
Core Reject Duplicates																			
162768	Drill Core	0.093	9	25	0.56	156	0.135	<20	0.73	0.063	0.28	5.8	<0.01	0.2	0.07	1.4	0.6	5	<0.2
DUP 162768	QC	0.093	10	24	0.57	156	0.138	<20	0.74	0.066	0.28	3.1	<0.01	0.2	0.08	1.4	0.6	5	<0.2
Reference Materials																			
STD DS7	Standard	0.077	13	189	1.02	391	0.118	41	0.99	0.090	0.49	4.0	0.22	4.3	0.20	2.3	3.7	5	1.0
STD DS7	Standard	0.077	14	197	1.06	413	0.124	31	1.03	0.093	0.52	4.2	0.23	4.6	0.18	2.4	3.5	6	1.3
STD OREAS45PA	Standard	0.034	18	786	0.11	189	0.138	<20	3.26	0.004	0.08	<0.1	0.04	<0.1	<0.05	43.1	0.6	20	<0.2
STD OREAS45PA	Standard	0.037	18	767	0.11	193	0.145	<20	3.44	0.006	0.09	<0.1	0.03	<0.1	<0.05	43.1	<0.5	20	<0.2
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	4.2	0.19	2.5	3.5	5	1.08
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8	
STD OXH66 Expected																			
STD OXC72 Expected																			
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2

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Project: Sultana

Report Date: November 16, 2010

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QUALITY CONTROL REPORT

SMI10000771.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
G1	Prep Blank		<2	0.2	3.6	3.2	46	<0.1	4.3	4.8	605	1.95	0.5	<0.5	6.2	65	<0.1	<0.1	<0.1	35	0.53
G1	Prep Blank		<2	0.1	3.2	3.4	46	<0.1	3.7	4.1	577	1.95	<0.5	<0.5	7.2	62	<0.1	<0.1	0.1	34	0.52



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QUALITY CONTROL REPORT

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		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.090	13	15	0.60	207	0.145	<20	0.99	0.080	0.61	0.1	<0.01	0.4	<0.05	2.2	<0.5	6	<0.2
G1	Prep Blank	0.090	13	13	0.56	185	0.139	<20	0.96	0.080	0.60	<0.1	<0.01	0.4	<0.05	2.1	<0.5	5	<0.2



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Client: Ranex Exploration
Box 4200
Smithers BC V0J 2N0 Canada

Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: November 01, 2010
Report Date: November 19, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS

SMI10000783.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 58

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of analytical data.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI10000783.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129051	Drill Core	7.41	<2	8.8	397.0	1.4	23	0.3	6.9	6.1	191	1.91	0.8	2.3	12.0	18	<0.1	0.3	0.2	46	0.70
129052	Drill Core	6.90	6	360.9	1117	1.8	21	1.1	8.6	8.5	193	2.15	0.7	1.5	9.5	20	<0.1	0.3	0.4	47	0.80
129053	Drill Core	7.15	<2	3.2	202.2	1.9	23	0.1	8.1	7.4	180	1.92	0.9	1.3	10.0	18	<0.1	0.1	<0.1	47	0.73
129054	Drill Core	6.84	<2	8.2	273.8	2.4	19	0.3	7.7	7.2	198	2.11	0.7	1.4	10.2	21	<0.1	0.1	0.2	53	0.80
129055	Drill Core	7.08	<2	3.1	233.0	1.9	21	0.2	7.6	6.1	189	2.05	0.8	2.6	9.0	25	<0.1	0.2	<0.1	52	0.81
129056	Drill Core	7.46	<2	4.7	449.3	1.9	21	0.3	8.0	7.1	195	2.15	0.7	0.7	9.3	19	<0.1	<0.1	0.1	55	0.74
129057	Drill Core	7.50	2	4.9	358.2	4.2	20	0.4	7.7	6.5	202	2.02	1.4	2.5	7.8	20	<0.1	0.2	0.3	50	0.96
129058	Drill Core	9.28	<2	4.5	217.7	1.8	17	0.1	6.5	6.0	152	1.93	0.7	<0.5	7.2	23	<0.1	<0.1	0.2	52	0.69
129059	Drill Core	4.04	<2	8.9	212.6	1.8	19	0.2	8.1	6.5	184	2.04	0.8	<0.5	8.0	20	<0.1	0.2	<0.1	55	0.66
129060	Rock Pulp	0.09	1627	194.0	>10000	81.9	120	5.2	32.3	20.0	352	4.37	40.5	2243	9.7	51	2.3	10.9	3.4	50	1.43
129061	Drill Core	7.62	<2	4.2	381.5	3.4	20	0.5	7.4	7.6	180	2.01	1.0	1.1	8.5	25	<0.1	0.1	0.2	52	0.67
129062	Drill Core	7.51	<2	4.4	467.2	1.6	21	0.7	7.0	6.5	188	1.98	0.8	3.5	7.6	22	<0.1	0.1	0.4	51	0.68
129063	Drill Core	6.21	<2	4.6	438.2	1.7	20	0.3	7.1	7.0	155	2.03	0.9	2.9	10.0	31	<0.1	<0.1	0.3	54	0.55
129064	Drill Core	7.15	<2	20.9	304.3	1.6	19	0.2	6.4	6.4	139	1.86	0.8	2.4	9.7	41	<0.1	<0.1	<0.1	50	0.51
129065	Drill Core	7.41	3	22.0	553.4	1.6	20	0.4	6.7	7.1	154	2.03	0.8	1.2	10.4	44	<0.1	<0.1	0.1	54	0.54
129066	Drill Core	7.41	<2	9.1	250.7	1.4	16	0.2	6.7	6.4	136	1.87	0.6	<0.5	10.5	32	<0.1	<0.1	<0.1	52	0.47
129067	Drill Core	7.59	<2	36.9	132.5	1.6	16	0.2	6.4	6.7	152	1.89	0.8	1.0	11.2	17	<0.1	<0.1	0.2	50	0.46
129068	Drill Core	7.63	<2	5.5	269.8	1.5	17	0.1	6.3	6.4	138	1.87	0.7	<0.5	10.1	21	<0.1	<0.1	0.1	50	0.50
129069	Drill Core	7.43	<2	2.9	356.3	1.6	18	0.4	6.5	6.3	148	1.93	0.8	<0.5	9.2	33	<0.1	<0.1	0.8	52	0.54
129070	Drill Core	7.76	51	7.7	331.7	1.8	18	0.3	6.8	6.1	158	1.91	0.7	0.7	8.7	38	<0.1	<0.1	0.2	50	0.61
129071	Drill Core	7.50	<2	8.1	326.3	1.8	17	0.3	6.9	6.4	155	1.90	0.9	<0.5	9.4	36	<0.1	<0.1	0.3	50	0.59
129072	Drill Core	7.53	<2	52.6	702.9	1.7	19	0.5	6.8	7.2	142	1.93	0.8	0.9	8.1	19	<0.1	<0.1	0.2	52	0.55
129073	Drill Core	7.27	<2	10.9	457.1	1.7	19	0.3	7.2	6.5	150	1.92	0.8	<0.5	9.7	22	<0.1	<0.1	0.2	54	0.55
129074	Drill Core	7.49	4	9.5	375.1	1.9	18	0.5	6.9	7.9	142	1.92	0.6	1.3	9.0	29	<0.1	<0.1	0.3	52	0.50
129075	Drill Core	7.24	3	13.5	290.5	1.6	17	0.2	6.3	6.5	142	1.91	0.8	<0.5	8.5	20	<0.1	<0.1	<0.1	54	0.52
129076	Drill Core	7.08	3	20.7	262.6	1.6	17	0.2	6.8	7.2	158	1.96	0.9	<0.5	9.6	19	<0.1	<0.1	<0.1	52	0.55
129077	Drill Core	7.62	3	44.3	422.9	1.5	20	0.4	7.1	8.0	194	2.03	1.2	<0.5	11.5	25	<0.1	0.1	0.3	53	0.69
129078	Drill Core	7.79	<2	3.2	201.4	1.8	19	0.2	6.7	6.5	161	1.87	0.8	<0.5	10.2	25	<0.1	<0.1	2.1	50	0.55
129079	Drill Core	7.76	2	5.7	473.4	2.2	27	0.3	7.1	8.2	265	2.05	19.5	<0.5	10.4	80	<0.1	12.5	0.1	48	0.98
129080	Rock	1.13	<2	<0.1	1.3	<0.1	<1	<0.1	1.1	<0.1	33	<0.01	5.2	<0.5	<0.1	4887	<0.1	<0.1	<0.1	<2	33.93

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
129051	Drill Core	0.080	8	19	0.57	118	0.102	<20	0.69	0.046	0.24	3.3	<0.01	0.1	0.16	1.7	<0.5	4	<0.2
129052	Drill Core	0.083	9	20	0.61	122	0.095	<20	0.72	0.048	0.21	3.7	<0.01	0.1	0.46	1.9	1.2	4	0.2
129053	Drill Core	0.080	9	21	0.60	159	0.104	<20	0.72	0.053	0.21	6.2	<0.01	<0.1	0.12	1.8	<0.5	4	<0.2
129054	Drill Core	0.085	10	23	0.62	111	0.115	<20	0.79	0.058	0.22	15.2	<0.01	<0.1	0.24	1.8	<0.5	5	0.2
129055	Drill Core	0.083	10	22	0.61	169	0.120	<20	0.79	0.062	0.23	6.2	<0.01	0.1	0.08	1.7	0.6	5	0.2
129056	Drill Core	0.085	10	24	0.58	137	0.124	<20	0.73	0.064	0.24	5.3	<0.01	0.1	0.15	1.7	<0.5	5	<0.2
129057	Drill Core	0.088	10	21	0.52	101	0.105	<20	0.74	0.057	0.19	1.7	<0.01	<0.1	0.17	1.4	<0.5	4	<0.2
129058	Drill Core	0.091	9	23	0.48	122	0.111	<20	0.68	0.067	0.20	1.4	<0.01	<0.1	0.09	1.1	<0.5	4	<0.2
129059	Drill Core	0.089	9	22	0.57	131	0.112	<20	0.71	0.064	0.23	6.1	<0.01	0.1	0.12	1.5	<0.5	4	<0.2
129060	Rock Pulp	0.068	18	58	0.81	67	0.030	<20	1.15	0.032	0.43	2.7	0.18	0.3	2.36	4.6	5.1	4	0.9
129061	Drill Core	0.093	8	21	0.53	119	0.105	<20	0.67	0.058	0.23	8.5	<0.01	<0.1	0.26	1.5	0.8	4	<0.2
129062	Drill Core	0.090	8	20	0.54	119	0.110	<20	0.70	0.062	0.25	3.8	<0.01	0.1	0.22	1.6	0.5	4	<0.2
129063	Drill Core	0.094	9	24	0.53	153	0.130	<20	0.68	0.070	0.28	5.4	<0.01	<0.1	0.15	1.3	<0.5	4	<0.2
129064	Drill Core	0.087	9	21	0.46	156	0.118	<20	0.62	0.072	0.27	3.7	<0.01	0.1	0.10	1.2	<0.5	4	<0.2
129065	Drill Core	0.093	9	24	0.51	164	0.126	<20	0.66	0.071	0.28	13.1	<0.01	0.1	0.20	1.4	0.8	4	<0.2
129066	Drill Core	0.089	9	23	0.47	173	0.128	<20	0.62	0.071	0.29	5.7	<0.01	0.1	0.06	1.0	<0.5	4	<0.2
129067	Drill Core	0.090	9	22	0.45	167	0.120	<20	0.59	0.071	0.29	1.1	<0.01	0.2	0.10	1.1	<0.5	3	<0.2
129068	Drill Core	0.088	8	21	0.44	158	0.120	<20	0.60	0.070	0.27	3.5	<0.01	0.1	0.10	1.0	<0.5	3	<0.2
129069	Drill Core	0.095	9	23	0.47	153	0.122	<20	0.65	0.069	0.26	2.8	<0.01	0.1	0.12	1.1	<0.5	4	<0.2
129070	Drill Core	0.094	9	22	0.49	149	0.121	<20	0.69	0.070	0.26	4.5	<0.01	<0.1	0.15	1.3	<0.5	4	<0.2
129071	Drill Core	0.091	8	22	0.49	148	0.116	<20	0.68	0.066	0.26	4.7	<0.01	0.1	0.16	1.3	<0.5	4	<0.2
129072	Drill Core	0.092	8	21	0.47	148	0.116	<20	0.63	0.063	0.26	7.7	<0.01	0.1	0.20	1.2	<0.5	3	<0.2
129073	Drill Core	0.097	9	21	0.49	150	0.120	<20	0.65	0.068	0.27	1.4	<0.01	0.1	0.11	1.2	<0.5	4	<0.2
129074	Drill Core	0.095	9	22	0.43	149	0.115	<20	0.57	0.067	0.25	5.2	<0.01	0.1	0.14	1.0	<0.5	4	<0.2
129075	Drill Core	0.095	9	22	0.47	148	0.125	<20	0.64	0.068	0.27	5.9	<0.01	0.1	0.07	1.2	<0.5	4	<0.2
129076	Drill Core	0.094	9	23	0.53	151	0.128	<20	0.68	0.061	0.26	3.2	<0.01	0.1	0.14	1.3	<0.5	4	<0.2
129077	Drill Core	0.096	9	22	0.58	161	0.123	<20	0.72	0.056	0.28	6.0	<0.01	0.1	0.22	1.8	<0.5	4	<0.2
129078	Drill Core	0.093	8	20	0.52	164	0.116	<20	0.63	0.060	0.27	2.6	<0.01	0.1	0.08	1.3	<0.5	3	0.5
129079	Drill Core	0.097	11	20	0.61	191	0.087	<20	0.57	0.056	0.24	8.5	0.07	0.1	0.13	2.4	<0.5	3	<0.2
129080	Rock	0.004	<1	<1	1.42	5	<0.001	<20	0.02	0.006	<0.01	<0.1	<0.01	<0.1	<0.05	0.1	<0.5	<1	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Sultana
 Report Date: November 19, 2010

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CERTIFICATE OF ANALYSIS

SMI10000783.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129151	Drill Core	7.57	<2	4.4	119.7	1.8	17	0.1	7.3	6.9	173	2.07	1.1	<0.5	10.5	31	<0.1	<0.1	<0.1	50	0.82
129152	Drill Core	7.41	<2	7.1	246.0	1.8	19	0.2	7.2	7.3	219	2.15	2.7	<0.5	13.0	64	<0.1	0.7	0.1	47	1.21
129153	Drill Core	7.34	<2	118.1	198.4	1.5	18	0.2	7.0	7.1	211	2.05	2.6	<0.5	9.5	54	<0.1	0.3	0.1	44	1.21
129154	Drill Core	7.16	6	27.6	640.4	2.1	20	0.4	7.5	8.9	197	2.09	1.7	<0.5	10.2	39	<0.1	0.2	0.2	49	0.91
129155	Drill Core	7.83	2	90.4	287.3	1.8	17	0.2	7.7	7.2	158	2.08	0.9	0.8	8.9	24	<0.1	<0.1	<0.1	51	0.78
129156	Drill Core	7.30	<2	7.2	232.6	2.0	17	0.2	7.7	8.4	160	2.15	1.1	6.2	9.4	25	<0.1	<0.1	<0.1	53	0.73
129157	Drill Core	7.73	<2	2.3	257.3	1.7	18	0.1	6.8	6.6	176	2.03	1.4	<0.5	10.1	31	<0.1	0.2	0.1	47	0.92
129158	Drill Core	8.41	6	12.1	187.0	2.7	20	0.2	7.2	7.3	215	2.05	4.7	<0.5	10.3	61	0.1	3.1	0.2	43	1.40
129159	Drill Core	7.63	3	14.8	178.7	1.9	17	0.1	6.5	6.5	162	1.94	1.2	<0.5	9.0	19	<0.1	<0.1	0.1	48	0.69
129160	Drill Core	8.01	3	16.3	149.0	1.9	17	0.1	7.3	6.3	155	1.99	1.0	<0.5	8.7	19	<0.1	<0.1	0.1	50	0.72
129161	Drill Core	5.72	<2	3.0	149.0	2.2	18	0.2	7.4	7.2	181	2.03	1.6	<0.5	11.2	23	<0.1	<0.1	0.6	45	0.80
129162	Drill Core	7.74	<2	18.4	131.6	9.9	19	0.1	6.8	6.8	225	1.98	6.1	<0.5	9.8	66	0.1	5.1	0.2	43	1.23
129163	Drill Core	7.38	2	87.5	245.6	4.6	20	0.2	7.8	7.5	154	2.08	10.2	2.2	9.8	39	<0.1	0.8	<0.1	52	0.66
129164	Drill Core	7.17	<2	117.7	255.2	1.5	18	0.2	8.0	8.0	196	2.18	2.4	<0.5	9.3	45	<0.1	0.2	<0.1	51	0.88
129165	Drill Core	7.82	3	7.9	570.7	1.4	19	0.4	8.1	8.7	194	2.02	4.2	0.8	11.4	51	<0.1	2.2	0.1	46	0.88
162788	Drill Core	6.93	<2	4.3	310.2	1.4	18	0.2	8.4	8.3	168	2.32	0.9	<0.5	8.8	25	<0.1	0.1	0.1	57	0.68
162789	Drill Core	7.46	3	8.1	340.6	1.5	19	0.2	8.3	7.6	168	2.13	1.1	2.1	8.8	42	<0.1	0.2	0.1	53	0.77
162790	Drill Core	7.13	<2	15.5	188.7	4.3	27	0.3	7.7	7.9	222	2.20	8.2	<0.5	8.2	32	0.2	2.5	0.2	55	1.12
162791	Drill Core	6.44	<2	6.6	202.5	1.8	17	0.5	7.2	6.0	198	2.02	1.4	<0.5	10.0	33	<0.1	0.2	<0.1	52	0.74
162792	Drill Core	7.63	<2	38.0	401.6	1.8	19	0.4	7.9	7.3	209	2.15	2.4	<0.5	10.6	30	0.1	0.3	0.1	52	0.86
162793	Drill Core	7.28	<2	3.0	105.5	1.9	17	0.2	7.5	7.0	202	2.11	1.0	<0.5	9.9	81	<0.1	<0.1	0.2	54	0.79
162794	Drill Core	7.36	<2	5.8	199.9	2.5	20	0.3	7.3	6.6	211	2.14	12.6	<0.5	8.7	31	0.1	0.9	0.2	50	1.12
162795	Drill Core	7.63	<2	3.5	222.8	2.2	25	0.2	7.4	7.4	209	2.26	2.6	2.3	8.4	24	<0.1	0.1	0.3	56	0.90
162796	Drill Core	7.48	<2	1.8	76.5	2.2	17	<0.1	6.5	5.9	193	2.10	2.3	<0.5	8.0	33	<0.1	0.2	<0.1	56	0.86
162797	Drill Core	7.85	<2	4.6	263.7	2.1	19	0.3	7.4	7.0	231	2.02	2.7	3.4	8.1	51	<0.1	0.2	0.1	51	1.10
162798	Drill Core	7.41	<2	9.6	236.0	1.9	20	0.2	7.4	6.9	208	2.15	1.3	<0.5	8.0	63	<0.1	<0.1	0.1	54	0.99
162799	Drill Core	7.44	<2	2.2	127.6	1.7	17	0.1	7.2	6.5	189	2.08	0.8	1.3	10.0	29	<0.1	<0.1	<0.1	56	0.80
162800	Rock Pulp	0.08	1330	220.3	9576	72.1	118	5.5	30.7	18.7	356	4.18	42.1	1574	9.9	58	2.6	12.0	3.3	50	1.42



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CERTIFICATE OF ANALYSIS

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
129151	Drill Core	0.090	9	21	0.60	166	0.113	<20	0.76	0.063	0.22	1.3	<0.01	<0.1	0.13	1.6	<0.5	4	<0.2
129152	Drill Core	0.092	9	20	0.64	200	0.102	<20	0.81	0.051	0.21	2.7	<0.01	<0.1	0.22	2.4	0.6	4	<0.2
129153	Drill Core	0.089	9	19	0.63	236	0.086	<20	0.70	0.048	0.23	25.3	0.01	<0.1	0.28	2.3	<0.5	3	<0.2
129154	Drill Core	0.087	8	20	0.68	157	0.121	<20	0.83	0.050	0.24	3.6	<0.01	0.1	0.33	2.1	0.7	4	<0.2
129155	Drill Core	0.089	8	22	0.58	164	0.126	<20	0.77	0.057	0.28	2.1	<0.01	<0.1	0.15	1.6	<0.5	5	<0.2
129156	Drill Core	0.087	8	22	0.62	161	0.136	<20	0.82	0.061	0.28	3.8	<0.01	<0.1	0.15	1.7	<0.5	4	<0.2
129157	Drill Core	0.092	8	20	0.58	160	0.110	<20	0.72	0.048	0.23	0.8	<0.01	<0.1	0.18	1.9	<0.5	4	<0.2
129158	Drill Core	0.094	8	21	0.54	641	0.089	<20	0.77	0.045	0.18	1.6	<0.01	<0.1	0.22	2.1	0.6	4	0.5
129159	Drill Core	0.092	8	22	0.58	111	0.120	<20	0.75	0.052	0.19	3.6	<0.01	<0.1	0.25	1.5	<0.5	4	<0.2
129160	Drill Core	0.094	8	23	0.55	121	0.120	<20	0.75	0.055	0.19	2.3	<0.01	<0.1	0.23	1.3	<0.5	4	<0.2
129161	Drill Core	0.090	7	20	0.64	97	0.116	<20	0.78	0.046	0.15	3.7	<0.01	<0.1	0.50	1.9	<0.5	4	<0.2
129162	Drill Core	0.087	9	20	0.55	429	0.074	<20	0.62	0.049	0.20	0.6	0.03	<0.1	0.13	2.2	<0.5	3	<0.2
129163	Drill Core	0.093	9	23	0.58	161	0.127	<20	0.71	0.056	0.24	7.4	<0.01	<0.1	0.13	1.4	0.6	4	<0.2
129164	Drill Core	0.094	9	20	0.68	181	0.126	<20	0.79	0.056	0.30	10.6	<0.01	0.1	0.14	2.3	<0.5	4	<0.2
129165	Drill Core	0.091	9	19	0.61	197	0.107	<20	0.73	0.048	0.24	5.1	0.02	<0.1	0.25	2.2	0.8	4	<0.2
162788	Drill Core	0.102	8	23	0.71	185	0.152	<20	0.91	0.059	0.38	6.4	<0.01	0.1	0.25	1.9	<0.5	5	<0.2
162789	Drill Core	0.096	7	21	0.69	168	0.130	<20	0.90	0.055	0.32	12.8	<0.01	0.1	0.23	1.8	<0.5	4	<0.2
162790	Drill Core	0.089	10	20	0.61	178	0.134	<20	0.85	0.059	0.31	3.4	<0.01	0.2	0.28	1.9	<0.5	6	<0.2
162791	Drill Core	0.086	9	18	0.63	205	0.133	<20	0.81	0.064	0.28	0.9	<0.01	0.1	0.11	1.6	<0.5	5	<0.2
162792	Drill Core	0.086	10	21	0.61	198	0.128	<20	0.82	0.056	0.26	91.5	<0.01	<0.1	0.33	2.0	<0.5	5	<0.2
162793	Drill Core	0.085	10	21	0.61	178	0.142	<20	0.88	0.058	0.24	2.3	<0.01	0.1	0.24	1.7	<0.5	6	<0.2
162794	Drill Core	0.086	10	19	0.56	192	0.115	<20	0.80	0.054	0.21	2.5	<0.01	<0.1	0.20	2.0	0.6	5	<0.2
162795	Drill Core	0.089	9	20	0.69	148	0.140	<20	0.90	0.059	0.24	3.5	<0.01	0.1	0.36	1.9	<0.5	6	<0.2
162796	Drill Core	0.088	9	21	0.63	158	0.130	<20	0.87	0.062	0.24	1.2	<0.01	0.1	0.12	1.6	<0.5	6	<0.2
162797	Drill Core	0.086	9	18	0.63	152	0.122	<20	0.80	0.052	0.24	12.9	<0.01	0.1	0.21	2.2	<0.5	6	<0.2
162798	Drill Core	0.086	11	19	0.63	176	0.131	<20	0.84	0.053	0.27	2.0	<0.01	0.1	0.20	2.1	<0.5	5	<0.2
162799	Drill Core	0.086	10	21	0.59	162	0.131	<20	0.76	0.067	0.26	11.7	<0.01	0.1	0.12	1.8	<0.5	5	<0.2
162800	Rock Pulp	0.063	21	55	0.81	79	0.031	<20	1.19	0.032	0.51	3.7	0.19	0.4	2.37	4.6	5.1	5	0.6



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Project: Sultana
Report Date: November 19, 2010

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QUALITY CONTROL REPORT

SMI10000783.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
129074	Drill Core	7.49	4	9.5	375.1	1.9	18	0.5	6.9	7.9	142	1.92	0.6	1.3	9.0	29	<0.1	<0.1	0.3	52	0.50
REP 129074	QC		3																		
129077	Drill Core	7.62	3	44.3	422.9	1.5	20	0.4	7.1	8.0	194	2.03	1.2	<0.5	11.5	25	<0.1	0.1	0.3	53	0.69
REP 129077	QC			45.1	424.9	1.4	20	0.3	7.4	7.8	191	2.01	1.1	<0.5	10.8	25	<0.1	0.1	0.4	53	0.69
162792	Drill Core	7.63	<2	38.0	401.6	1.8	19	0.4	7.9	7.3	209	2.15	2.4	<0.5	10.6	30	0.1	0.3	0.1	52	0.86
REP 162792	QC			41.1	402.2	1.7	18	0.5	7.6	7.6	211	2.20	2.1	<0.5	9.7	31	0.1	0.3	0.1	53	0.85
Core Reject Duplicates																					
129071	Drill Core	7.50	<2	8.1	326.3	1.8	17	0.3	6.9	6.4	155	1.90	0.9	<0.5	9.4	36	<0.1	<0.1	0.3	50	0.59
DUP 129071	QC		<2	10.0	415.8	1.8	19	0.4	7.3	7.3	169	2.15	0.8	1.1	9.4	45	<0.1	<0.1	0.3	58	0.61
162798	Drill Core	7.41	<2	9.6	236.0	1.9	20	0.2	7.4	6.9	208	2.15	1.3	<0.5	8.0	63	<0.1	<0.1	0.1	54	0.99
DUP 162798	QC		4	15.2	305.4	2.2	22	0.3	8.5	8.3	235	2.38	1.3	1.7	9.9	76	<0.1	0.1	0.2	60	1.06
Reference Materials																					
STD DS7	Standard			20.3	105.8	72.6	399	1.2	54.4	9.0	638	2.34	52.9	76.0	4.7	76	6.2	4.9	4.9	82	0.93
STD DS7	Standard			21.8	104.0	71.6	401	1.0	57.0	9.0	606	2.33	47.8	58.2	4.2	62	6.1	4.5	4.4	82	0.91
STD DS7	Standard			19.2	101.9	67.4	396	1.0	52.9	9.2	598	2.29	51.8	57.8	4.3	69	6.2	4.4	4.8	78	0.93
STD OREAS45PA	Standard			1.0	612.4	20.7	121	0.4	290.8	108.7	1153	16.55	4.8	50.8	7.3	15	0.2	0.2	0.2	229	0.25
STD OREAS45PA	Standard			0.9	577.6	22.0	113	0.3	273.8	107.3	1090	16.27	4.3	61.8	7.5	13	0.1	0.1	0.2	208	0.24
STD OREAS45PA	Standard			1.1	572.8	20.5	126	0.3	283.1	105.1	1111	15.03	5.6	46.4	6.9	14	<0.1	0.3	0.2	211	0.23
STD OXC72	Standard		197																		
STD OXC72	Standard		201																		
STD OXC72	Standard		196																		
STD OXH66	Standard		1346																		
STD OXH66	Standard		1288																		
STD OXH66	Standard		1266																		
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	50	70	4.4	72	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411
STD OXH66 Expected			1285																		
STD OXC72 Expected			205																		



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QUALITY CONTROL REPORT

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																			
129074	Drill Core	0.095	9	22	0.43	149	0.115	<20	0.57	0.067	0.25	5.2	<0.01	0.1	0.14	1.0	<0.5	4	<0.2
REP 129074	QC																		
129077	Drill Core	0.096	9	22	0.58	161	0.123	<20	0.72	0.056	0.28	6.0	<0.01	0.1	0.22	1.8	<0.5	4	<0.2
REP 129077	QC	0.095	9	22	0.58	164	0.123	<20	0.72	0.056	0.29	5.1	<0.01	0.1	0.22	1.9	<0.5	4	0.2
162792	Drill Core	0.086	10	21	0.61	198	0.128	<20	0.82	0.056	0.26	91.5	<0.01	<0.1	0.33	2.0	<0.5	5	<0.2
REP 162792	QC	0.088	10	20	0.61	196	0.127	<20	0.81	0.056	0.26	93.0	<0.01	0.1	0.33	2.0	<0.5	5	<0.2
Core Reject Duplicates																			
129071	Drill Core	0.091	8	22	0.49	148	0.116	<20	0.68	0.066	0.26	4.7	<0.01	0.1	0.16	1.3	<0.5	4	<0.2
DUP 129071	QC	0.098	9	26	0.53	153	0.126	<20	0.71	0.069	0.28	10.0	<0.01	0.1	0.21	1.5	0.8	4	<0.2
162798	Drill Core	0.086	11	19	0.63	176	0.131	<20	0.84	0.053	0.27	2.0	<0.01	0.1	0.20	2.1	<0.5	5	<0.2
DUP 162798	QC	0.095	12	24	0.70	202	0.143	<20	0.87	0.054	0.30	3.6	<0.01	0.1	0.25	2.3	<0.5	6	0.2
Reference Materials																			
STD DS7	Standard	0.077	13	196	1.08	412	0.120	44	1.04	0.097	0.52	3.7	0.22	4.6	0.20	2.3	3.2	6	2.1
STD DS7	Standard	0.074	11	194	1.02	388	0.109	35	0.95	0.088	0.43	3.2	0.24	3.9	0.21	2.3	3.4	4	1.3
STD DS7	Standard	0.080	12	184	1.02	402	0.109	38	0.99	0.090	0.44	3.3	0.20	3.8	0.19	2.2	3.3	4	1.3
STD OREAS45PA	Standard	0.038	18	821	0.11	194	0.142	<20	3.37	0.010	0.09	0.1	0.04	<0.1	<0.05	44.0	0.6	21	0.4
STD OREAS45PA	Standard	0.033	16	818	0.10	180	0.116	<20	3.17	0.006	0.07	<0.1	0.03	<0.1	<0.05	40.5	<0.5	17	<0.2
STD OREAS45PA	Standard	0.034	15	770	0.10	186	0.113	<20	3.26	0.005	0.07	<0.1	0.03	<0.1	<0.05	38.6	<0.5	18	<0.2
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD DS7 Expected		0.08	13	192	1.05	410	0.124	39	1.0195	0.089	0.44	3.4	0.21	4.2	0.19	2.5	3.5	5	1.18
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8	
STD OXH66 Expected																			
STD OXC72 Expected																			

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 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana

Report Date: November 19, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

SMI10000783.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
G1	Prep Blank		<2	1.7	19.4	3.2	50	<0.1	3.4	4.4	557	1.81	<0.5	3.2	6.4	43	<0.1	<0.1	<0.1	36	0.42
G1	Prep Blank		<2	1.6	19.1	3.3	47	<0.1	3.3	4.6	572	1.89	<0.5	9.4	6.8	44	<0.1	<0.1	<0.1	37	0.44



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Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

SMI10000783.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.079	10	9	0.53	178	0.123	<20	0.85	0.066	0.51	0.1	<0.01	0.3	<0.05	1.8	<0.5	5	<0.2
G1	Prep Blank	0.079	11	9	0.54	177	0.126	<20	0.88	0.075	0.53	<0.1	<0.01	0.4	<0.05	1.9	<0.5	5	<0.2



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Submitted By: Tim Johnson
Receiving Lab: Canada-Smithers
Received: November 01, 2010
Report Date: November 22, 2010
Page: 1 of 4

CERTIFICATE OF ANALYSIS

SMI10000790.1

CLIENT JOB INFORMATION

Project: Sultana
Shipment ID:
P.O. Number
Number of Samples: 70

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ranex Exploration
Box 4200
Smithers BC V0J 2N0
Canada

CC: Mathius Westphal

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	69	Crush split and pulverize 250g drill core to 200 mesh			SMI
3B	70	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	70	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Smithers BC V0J 2N0 Canada

Project: Sultana
 Report Date: November 22, 2010

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

SMI10000790.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129081	Drill Core	7.22	5	30.8	893.4	2.7	39	0.6	9.3	10.6	406	2.47	21.1	3.4	10.2	65	0.2	26.5	0.1	44	1.95
129082	Drill Core	6.83	<2	19.5	343.7	1.5	19	0.1	7.9	9.5	339	2.27	2.3	2.4	11.3	39	<0.1	0.3	0.2	48	1.98
129083	Drill Core	7.27	4	62.3	759.8	1.6	23	0.6	8.6	9.1	262	2.26	1.3	3.7	11.5	51	<0.1	0.1	0.3	53	1.07
129084	Drill Core	7.62	<2	159.7	573.1	3.1	54	0.6	8.3	9.6	357	2.42	30.5	1.5	8.8	64	0.5	75.5	0.4	42	1.89
129085	Drill Core	7.99	4	5.1	640.3	1.7	19	0.5	8.4	9.0	217	2.35	1.4	8.6	8.7	47	<0.1	<0.1	0.2	60	0.74
129086	Drill Core	6.86	3	29.8	374.5	2.2	24	0.3	7.6	8.4	244	2.23	1.5	1.7	10.3	51	<0.1	0.4	0.4	57	0.90
129087	Drill Core	7.44	2	13.9	476.1	2.3	27	0.5	6.5	7.9	239	2.35	4.8	3.1	10.7	59	<0.1	9.4	0.4	49	1.06
129088	Drill Core	7.42	6	58.3	1097	2.5	23	0.9	7.3	11.6	194	2.42	1.6	4.7	10.7	28	<0.1	<0.1	0.4	57	0.81
129089	Drill Core	7.35	3	9.2	621.9	2.1	21	0.4	6.7	7.6	202	2.34	1.2	0.7	9.4	64	<0.1	0.1	0.4	54	0.82
129090	Drill Core	6.93	2	24.4	446.6	4.0	23	0.4	7.5	8.8	239	2.48	1.7	3.1	8.5	65	<0.1	<0.1	1.2	56	1.07
129091	Drill Core	7.61	<2	50.3	412.0	4.9	22	0.5	6.8	7.9	295	2.33	1.9	2.1	9.8	61	<0.1	0.1	1.2	46	1.56
129092	Drill Core	7.40	<2	17.4	186.6	2.1	20	0.3	6.5	8.5	277	2.37	1.3	0.8	11.1	44	<0.1	<0.1	0.3	53	1.31
129093	Drill Core	6.85	3	11.6	424.7	2.8	23	0.4	7.0	8.6	200	2.50	1.0	<0.5	9.2	53	0.1	<0.1	0.3	59	0.77
129094	Drill Core	6.98	4	70.7	526.1	3.3	22	0.5	7.3	9.1	200	2.31	0.9	1.0	8.2	43	<0.1	<0.1	1.9	56	0.76
129095	Drill Core	7.76	<2	26.4	498.5	2.0	21	0.5	7.2	7.9	199	2.30	0.7	4.1	10.5	32	<0.1	<0.1	1.3	55	0.67
129096	Drill Core	7.88	4	23.9	973.7	1.8	24	0.7	7.4	8.1	181	2.12	0.7	3.3	10.8	30	<0.1	<0.1	0.2	54	0.62
129097	Drill Core	7.23	<2	3.6	166.4	1.6	17	0.2	6.5	7.2	167	2.12	0.7	0.8	12.4	35	<0.1	<0.1	0.3	55	0.54
129098	Drill Core	7.48	3	8.2	422.1	2.0	26	0.4	7.6	9.1	260	2.40	14.8	4.7	12.6	82	0.2	10.3	0.8	46	1.45
129099	Drill Core	7.58	3	13.2	440.1	1.5	20	0.4	7.6	7.8	181	2.17	1.0	0.7	11.1	45	<0.1	<0.1	0.2	56	0.64
129100	Drill Core	6.63	2	18.7	403.3	1.6	19	0.3	8.2	8.1	185	2.21	1.1	2.0	11.7	47	<0.1	<0.1	0.2	55	0.64
129101	Drill Core	7.68	6	8.0	815.8	2.0	20	0.5	7.4	9.3	173	2.18	1.8	3.5	10.7	26	<0.1	0.2	0.2	54	0.66
129102	Drill Core	7.77	<2	13.1	542.0	1.6	17	0.4	7.5	7.1	154	2.10	0.8	2.3	11.9	22	<0.1	<0.1	0.2	54	0.58
129103	Drill Core	8.06	<2	19.7	336.9	1.7	18	0.3	6.8	7.7	171	2.14	3.7	1.1	10.5	25	<0.1	0.4	<0.1	56	0.74
129166	Drill Core	7.86	<2	11.6	194.2	2.3	18	0.3	6.9	6.7	223	2.15	5.8	0.7	10.8	42	<0.1	2.8	<0.1	48	1.52
129167	Drill Core	7.31	3	68.9	406.7	1.8	18	0.3	7.8	7.9	186	2.27	1.5	1.0	9.4	54	<0.1	0.1	<0.1	57	0.95
129168	Drill Core	8.55	<2	3.0	156.7	2.2	17	0.1	7.5	10.0	162	2.02	2.8	<0.5	7.8	31	<0.1	5.2	<0.1	50	0.85
129169	Drill Core	7.38	3	5.0	634.1	2.1	16	0.4	8.2	7.7	168	2.17	1.0	2.8	9.5	25	<0.1	0.2	<0.1	56	0.79
129170	Drill Core	7.07	<2	9.7	447.6	1.9	18	0.4	8.9	11.7	193	2.35	1.0	2.2	8.4	22	<0.1	0.1	0.1	58	0.86
129171	Drill Core	7.23	3	17.9	397.8	2.0	21	0.3	8.6	7.7	216	2.22	1.4	1.3	9.3	25	<0.1	0.3	0.3	53	1.04
129172	Drill Core	7.79	2	24.0	707.4	2.3	21	0.5	8.8	8.2	204	2.40	0.8	1.4	8.9	39	<0.1	<0.1	0.5	63	0.73

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Project: Sultana
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

SMI10000790.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
129081	Drill Core	0.099	14	20	0.61	321	0.053	<20	0.84	0.042	0.25	1.8	0.19	0.2	0.21	3.7	<0.5	4	<0.2
129082	Drill Core	0.101	15	22	0.60	117	0.061	<20	0.91	0.049	0.21	19.4	0.03	0.1	0.12	3.0	<0.5	4	<0.2
129083	Drill Core	0.094	11	25	0.73	128	0.091	<20	0.86	0.053	0.19	6.9	0.02	<0.1	0.22	2.8	0.6	5	<0.2
129084	Drill Core	0.097	12	20	0.67	470	0.050	<20	0.79	0.041	0.21	11.0	0.47	0.1	0.36	3.1	0.6	3	<0.2
129085	Drill Core	0.101	10	28	0.70	145	0.139	<20	0.82	0.062	0.23	15.5	0.07	0.1	0.24	2.1	0.8	5	<0.2
129086	Drill Core	0.091	11	26	0.65	167	0.118	<20	0.81	0.068	0.24	3.5	0.03	0.1	0.19	2.2	0.6	5	<0.2
129087	Drill Core	0.095	13	24	0.62	254	0.105	<20	0.78	0.059	0.21	5.4	0.12	<0.1	0.30	2.1	0.7	4	<0.2
129088	Drill Core	0.100	13	26	0.63	119	0.136	<20	0.81	0.068	0.22	14.7	0.02	0.1	0.37	1.9	1.0	5	<0.2
129089	Drill Core	0.100	12	23	0.64	129	0.120	<20	0.83	0.064	0.21	13.4	0.01	0.1	0.28	2.0	0.8	5	<0.2
129090	Drill Core	0.104	13	23	0.70	142	0.101	<20	0.86	0.063	0.20	5.6	<0.01	<0.1	0.38	2.3	<0.5	5	<0.2
129091	Drill Core	0.102	13	20	0.62	182	0.059	<20	0.78	0.049	0.16	1.9	<0.01	<0.1	0.31	2.5	<0.5	4	0.6
129092	Drill Core	0.100	14	23	0.61	181	0.085	<20	0.79	0.056	0.16	2.8	0.01	<0.1	0.22	2.0	0.6	5	<0.2
129093	Drill Core	0.100	12	25	0.62	158	0.130	<20	0.80	0.072	0.26	11.1	<0.01	0.1	0.32	1.8	0.6	5	<0.2
129094	Drill Core	0.095	10	24	0.61	135	0.131	<20	0.81	0.067	0.23	17.6	<0.01	0.1	0.35	1.8	0.5	5	<0.2
129095	Drill Core	0.091	11	26	0.58	154	0.132	<20	0.75	0.067	0.29	19.4	0.01	0.1	0.33	1.8	<0.5	5	0.4
129096	Drill Core	0.082	10	25	0.61	149	0.141	<20	0.78	0.062	0.29	11.6	<0.01	0.1	0.34	2.0	0.6	5	<0.2
129097	Drill Core	0.087	9	24	0.59	168	0.132	<20	0.77	0.062	0.29	4.3	0.01	0.1	0.19	1.7	<0.5	4	<0.2
129098	Drill Core	0.089	12	21	0.56	178	0.083	<20	0.76	0.056	0.25	9.0	0.06	0.1	0.54	2.8	<0.5	4	0.4
129099	Drill Core	0.095	10	25	0.60	150	0.138	<20	0.76	0.064	0.26	13.3	<0.01	0.1	0.23	2.0	0.7	5	<0.2
129100	Drill Core	0.093	10	26	0.60	164	0.135	<20	0.77	0.065	0.28	11.2	0.02	0.1	0.26	1.9	<0.5	4	<0.2
129101	Drill Core	0.088	10	25	0.58	162	0.138	<20	0.71	0.060	0.32	41.1	<0.01	0.2	0.41	2.0	1.0	4	<0.2
129102	Drill Core	0.084	9	26	0.51	144	0.134	<20	0.69	0.068	0.27	6.7	<0.01	0.1	0.17	1.5	0.7	4	<0.2
129103	Drill Core	0.092	12	25	0.56	140	0.132	<20	0.75	0.063	0.25	10.8	<0.01	0.1	0.15	1.7	<0.5	5	<0.2
129166	Drill Core	0.094	12	21	0.48	181	0.084	<20	0.74	0.051	0.20	1.4	0.02	<0.1	0.11	2.7	0.5	4	<0.2
129167	Drill Core	0.092	10	24	0.64	167	0.124	<20	0.87	0.058	0.22	8.7	<0.01	0.1	0.15	2.0	<0.5	5	<0.2
129168	Drill Core	0.081	9	21	0.59	152	0.113	<20	0.71	0.054	0.21	1.8	<0.01	<0.1	0.19	1.6	0.5	4	<0.2
129169	Drill Core	0.086	10	23	0.62	137	0.132	<20	0.88	0.059	0.24	1.9	<0.01	0.1	0.17	1.7	0.7	4	<0.2
129170	Drill Core	0.090	10	25	0.75	162	0.156	<20	0.93	0.056	0.28	1.9	<0.01	0.1	0.27	2.2	0.6	5	<0.2
129171	Drill Core	0.090	10	22	0.74	149	0.136	<20	0.98	0.052	0.31	1.7	<0.01	0.2	0.35	2.9	0.9	5	<0.2
129172	Drill Core	0.092	9	24	0.78	227	0.176	<20	1.00	0.055	0.43	3.4	<0.01	0.2	0.35	2.6	1.1	5	<0.2

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Project: Sultana
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

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Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129173	Drill Core	7.76	<2	7.0	330.5	1.6	17	0.2	7.9	7.4	179	2.31	0.7	<0.5	8.0	26	<0.1	0.1	<0.1	59	0.75
129174	Drill Core	7.64	7	23.7	561.7	2.1	21	0.4	8.1	7.6	187	2.18	4.6	0.9	8.9	25	0.1	4.6	0.1	55	0.83
129175	Drill Core	6.59	3	15.4	477.0	1.7	19	0.3	8.3	8.0	180	2.41	0.8	<0.5	9.7	42	<0.1	0.1	<0.1	63	0.80
129176	Drill Core	7.43	10	7.7	1266	1.8	23	0.8	9.9	10.8	204	2.42	1.0	11.7	11.9	55	<0.1	0.1	0.2	59	0.87
129177	Drill Core	7.78	11	391.6	1187	1.9	22	0.8	10.5	10.3	205	2.32	1.0	3.6	11.2	25	<0.1	0.1	0.2	61	0.77
129178	Drill Core	7.92	13	247.1	1089	1.9	23	0.8	8.8	8.8	199	2.19	16.6	10.9	9.1	25	<0.1	9.5	0.2	55	0.83
129179	Drill Core	6.86	6	21.7	802.6	1.7	18	0.6	7.8	7.5	182	2.13	0.9	6.2	7.9	28	<0.1	0.1	0.2	55	0.75
129180	Rock	5.46	<2	0.3	2.1	<0.1	<1	<0.1	<0.1	<0.1	29	<0.01	3.6	<0.5	<0.1	4076	<0.1	<0.1	<0.1	<2	35.50
129181	Drill Core	7.37	2	12.8	391.5	1.6	16	0.3	7.8	9.0	155	2.07	0.8	3.7	10.3	16	<0.1	<0.1	0.1	54	0.66
129182	Drill Core	7.42	<2	22.7	400.3	1.5	16	0.3	7.1	7.5	162	2.09	0.6	1.9	11.4	31	<0.1	0.1	0.1	56	0.73
129183	Drill Core	7.48	8	15.0	771.2	3.0	23	0.6	7.9	9.4	203	2.32	13.3	5.3	10.8	35	<0.1	14.2	0.2	56	1.15
129184	Drill Core	6.27	<2	16.0	333.6	1.7	15	0.2	7.4	5.8	179	2.18	0.7	0.6	10.3	25	<0.1	0.1	<0.1	59	0.91
129185	Drill Core	7.08	6	17.7	914.5	6.6	27	0.6	8.9	10.8	256	2.45	3.0	3.5	9.7	43	0.1	0.6	0.9	53	1.53
129186	Drill Core	7.00	3	26.4	482.0	2.6	20	0.5	8.2	8.2	215	2.41	0.9	2.0	9.8	33	<0.1	0.1	1.5	58	1.05
129187	Drill Core	7.09	2	33.6	685.9	1.8	20	0.4	8.6	9.1	242	2.27	0.8	1.7	8.9	41	<0.1	0.2	0.2	56	1.23
129188	Drill Core	6.14	5	26.6	826.2	2.1	29	0.5	10.0	11.2	308	2.43	0.8	1.7	7.3	70	<0.1	0.1	0.5	54	1.91
129189	Drill Core	6.61	6	181.9	944.7	9.6	41	0.5	9.1	12.3	309	2.29	21.4	3.2	8.8	75	0.2	33.0	0.9	41	2.34
129190	Drill Core	6.45	3	211.3	581.2	2.1	31	0.4	9.6	8.6	344	2.31	0.8	1.1	8.1	62	<0.1	<0.1	0.8	53	1.93
129191	Drill Core	6.98	<2	72.5	422.3	2.5	24	0.3	9.4	8.9	281	2.27	0.8	1.7	9.1	60	<0.1	0.1	0.4	53	1.76
129192	Drill Core	6.71	2	48.1	536.1	1.7	19	0.4	8.9	8.8	196	2.18	0.7	1.1	7.3	78	<0.1	<0.1	0.2	57	0.86
129193	Drill Core	6.94	<2	36.3	465.1	1.6	19	0.3	8.2	8.6	199	2.35	0.7	1.0	8.7	43	<0.1	0.2	0.1	65	0.85
129194	Drill Core	6.94	<2	118.3	392.0	1.7	17	0.2	8.6	8.0	174	2.15	0.7	<0.5	7.4	23	<0.1	0.1	<0.1	59	0.70
129195	Drill Core	7.35	4	80.3	493.9	1.7	18	0.4	7.8	7.9	179	1.97	0.7	0.7	9.1	26	<0.1	0.2	0.1	55	0.73
129196	Drill Core	6.72	<2	47.1	643.4	2.4	24	0.5	7.9	7.5	208	2.09	0.8	2.8	8.4	51	<0.1	0.2	0.2	55	0.78
129197	Drill Core	8.07	<2	1566	368.0	1.8	23	0.2	7.9	7.8	201	2.01	0.8	<0.5	14.1	42	<0.1	0.1	<0.1	57	0.54
129198	Drill Core	7.25	<2	20.2	523.1	1.6	20	0.6	8.2	7.3	196	2.17	0.8	0.9	9.5	27	<0.1	0.2	0.2	54	0.82
129199	Drill Core	7.18	4	89.0	829.5	17.3	23	1.5	8.0	8.4	388	2.32	30.2	8.2	8.4	131	0.3	1.7	12.7	38	2.46
129200	Rock Pulp	0.09	1498	234.5	8942	77.6	112	4.6	32.9	18.9	328	4.08	39.0	1523	9.4	49	2.6	13.1	3.4	50	1.38
129201	Drill Core	6.55	<2	16.8	374.4	2.5	20	0.3	8.0	7.4	241	1.96	1.5	2.3	9.0	164	<0.1	0.2	0.3	50	1.27
129202	Drill Core	7.05	<2	17.9	316.5	1.7	17	0.2	7.8	8.0	193	2.03	0.8	1.6	8.5	53	<0.1	0.2	0.2	56	0.89

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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
129173	Drill Core	0.086	9	24	0.69	181	0.157	<20	0.92	0.058	0.36	0.7	<0.01	0.2	0.11	2.1	<0.5	5	<0.2
129174	Drill Core	0.081	8	22	0.62	218	0.136	<20	0.84	0.053	0.33	1.3	<0.01	0.2	0.19	2.2	0.7	4	<0.2
129175	Drill Core	0.084	10	24	0.71	170	0.158	<20	0.93	0.064	0.35	3.7	<0.01	0.2	0.12	2.2	0.8	5	<0.2
129176	Drill Core	0.087	12	25	0.78	192	0.153	<20	0.94	0.053	0.39	5.9	<0.01	0.2	0.43	2.8	1.6	5	<0.2
129177	Drill Core	0.087	10	28	0.83	198	0.182	<20	1.05	0.063	0.41	3.8	<0.01	0.2	0.28	2.9	1.2	6	<0.2
129178	Drill Core	0.083	9	23	0.77	181	0.154	<20	0.86	0.055	0.41	4.5	0.02	0.2	0.29	2.9	1.5	5	<0.2
129179	Drill Core	0.083	9	24	0.66	147	0.136	<20	0.82	0.054	0.28	5.3	<0.01	0.2	0.20	1.9	0.9	5	<0.2
129180	Rock	0.005	<1	<1	1.50	5	0.004	<20	0.02	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
129181	Drill Core	0.088	9	22	0.58	161	0.133	<20	0.74	0.054	0.26	14.2	<0.01	0.1	0.23	1.5	0.9	4	<0.2
129182	Drill Core	0.084	9	23	0.60	225	0.137	<20	0.75	0.055	0.26	5.5	<0.01	0.1	0.15	1.6	0.6	4	<0.2
129183	Drill Core	0.092	11	24	0.64	196	0.120	<20	0.82	0.054	0.26	5.7	0.05	0.1	0.29	2.5	0.9	4	<0.2
129184	Drill Core	0.085	10	23	0.58	142	0.129	<20	0.81	0.056	0.23	3.6	<0.01	0.1	0.08	1.6	<0.5	5	<0.2
129185	Drill Core	0.092	12	21	0.68	139	0.097	<20	0.93	0.043	0.28	14.8	<0.01	0.2	0.60	3.1	1.2	5	0.3
129186	Drill Core	0.086	10	24	0.73	126	0.134	<20	0.95	0.049	0.23	8.5	<0.01	<0.1	0.66	2.4	1.1	5	0.6
129187	Drill Core	0.092	11	25	0.74	151	0.113	<20	0.85	0.047	0.25	2.2	<0.01	0.1	0.36	2.9	0.8	5	<0.2
129188	Drill Core	0.096	14	25	0.83	174	0.092	<20	0.98	0.041	0.29	7.1	<0.01	0.1	0.38	4.0	0.9	5	<0.2
129189	Drill Core	0.093	15	18	0.59	205	0.041	<20	0.82	0.033	0.22	3.6	0.06	0.1	0.53	3.8	1.5	4	0.8
129190	Drill Core	0.092	14	21	0.87	171	0.069	<20	1.02	0.039	0.31	3.1	<0.01	0.2	0.60	3.9	0.7	5	<0.2
129191	Drill Core	0.095	14	21	0.78	159	0.087	<20	1.10	0.048	0.32	1.3	<0.01	0.2	0.33	3.2	0.7	5	<0.2
129192	Drill Core	0.089	9	22	0.77	141	0.130	<20	1.00	0.051	0.29	4.6	<0.01	0.2	0.27	2.3	0.8	5	<0.2
129193	Drill Core	0.101	10	24	0.74	159	0.145	<20	0.97	0.058	0.33	3.5	<0.01	0.2	0.15	2.0	0.5	5	<0.2
129194	Drill Core	0.091	9	23	0.66	139	0.136	<20	0.84	0.053	0.32	2.3	<0.01	0.2	0.14	1.8	0.9	5	<0.2
129195	Drill Core	0.089	10	23	0.59	154	0.110	<20	0.75	0.060	0.25	2.2	<0.01	0.1	0.12	1.5	0.6	4	<0.2
129196	Drill Core	0.085	10	24	0.66	151	0.122	<20	0.85	0.060	0.27	10.6	<0.01	0.1	0.26	2.0	0.6	4	<0.2
129197	Drill Core	0.087	24	21	0.64	175	0.141	<20	0.79	0.057	0.38	2.6	<0.01	0.2	0.19	1.8	1.6	4	<0.2
129198	Drill Core	0.084	10	22	0.68	109	0.112	<20	0.85	0.049	0.20	7.5	<0.01	<0.1	0.34	2.0	0.8	5	<0.2
129199	Drill Core	0.083	10	16	0.54	121	0.037	<20	0.89	0.046	0.21	0.8	0.02	0.1	0.84	2.1	<0.5	4	0.4
129200	Rock Pulp	0.059	17	55	0.77	150	0.028	<20	1.12	0.027	0.41	2.7	0.17	0.3	2.24	4.4	4.4	4	0.3
129201	Drill Core	0.081	10	20	0.65	222	0.072	<20	0.98	0.058	0.20	0.9	0.02	<0.1	0.16	1.8	<0.5	4	<0.2
129202	Drill Core	0.086	11	23	0.66	283	0.106	<20	0.81	0.051	0.20	5.1	<0.01	<0.1	0.10	1.7	0.6	5	<0.2

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Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
129203	Drill Core	6.74	3	60.9	1633	2.5	20	1.1	7.9	7.4	266	1.76	1.4	7.8	10.8	42	0.2	0.2	0.3	23	2.19
129204	Drill Core	6.82	2	17.0	2211	3.6	31	1.8	6.1	5.3	281	1.41	15.9	6.5	9.8	43	0.5	14.7	0.2	3	2.55
129205	Drill Core	6.90	8	105.9	2756	4.3	51	3.8	5.3	5.5	361	1.45	57.8	52.0	10.1	45	0.9	39.7	0.3	4	2.73
129206	Drill Core	7.50	7	20.7	2919	7.2	72	4.2	5.5	7.5	400	1.77	122.7	5.7	9.9	51	1.4	54.3	0.3	4	2.48
129207	Drill Core	6.90	5	171.0	1943	3.4	42	2.2	7.0	9.7	369	1.90	73.7	13.7	9.9	54	0.5	27.9	0.6	4	2.09
129208	Drill Core	7.18	<2	20.4	1428	1.8	35	0.9	6.5	12.0	366	2.00	62.3	4.5	10.0	52	0.4	9.8	0.4	4	2.48
129209	Drill Core	7.22	4	9.0	2092	6.0	32	1.9	6.2	8.8	380	2.00	21.2	4.3	9.8	47	0.4	2.2	0.6	4	2.68
129210	Drill Core	6.68	6	3.5	1913	46.3	66	2.1	7.0	8.0	413	2.36	61.6	11.0	10.7	50	1.0	2.9	1.5	3	2.86
129211	Drill Core	7.30	8	1.5	2438	3.2	25	1.7	9.4	9.9	338	1.97	2.1	12.4	12.1	51	0.1	0.2	0.5	24	2.22
129212	Drill Core	7.82	3	4.2	891.4	9.3	23	0.8	9.0	9.1	332	2.23	6.1	6.8	11.4	81	0.1	0.4	0.7	26	2.27



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Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
129203	Drill Core	0.090	14	12	0.36	245	0.024	<20	0.65	0.035	0.18	0.6	0.02	<0.1	0.69	2.1	1.3	2	0.3
129204	Drill Core	0.074	13	3	0.12	203	<0.001	<20	0.35	0.021	0.18	0.3	0.03	<0.1	0.86	1.7	1.8	<1	<0.2
129205	Drill Core	0.074	12	5	0.12	142	<0.001	<20	0.36	0.022	0.22	2.0	0.13	<0.1	1.09	1.8	1.7	<1	<0.2
129206	Drill Core	0.080	10	5	0.29	91	<0.001	<20	0.38	0.023	0.22	12.3	0.34	0.1	1.18	1.6	2.4	<1	<0.2
129207	Drill Core	0.078	12	4	0.49	64	<0.001	<20	0.33	0.021	0.25	15.8	0.41	0.1	1.38	1.4	2.2	<1	<0.2
129208	Drill Core	0.077	9	4	0.27	58	<0.001	<20	0.38	0.024	0.21	3.2	0.20	<0.1	1.50	1.3	2.3	<1	<0.2
129209	Drill Core	0.077	11	4	0.16	66	<0.001	<20	0.48	0.025	0.21	8.1	0.01	<0.1	1.40	1.3	2.3	<1	<0.2
129210	Drill Core	0.077	10	3	0.11	49	<0.001	<20	0.44	0.022	0.22	5.9	0.05	<0.1	2.11	1.1	2.0	1	<0.2
129211	Drill Core	0.077	14	16	0.54	165	0.010	<20	0.82	0.052	0.17	1.8	0.01	<0.1	1.14	2.1	1.5	4	<0.2
129212	Drill Core	0.078	11	14	0.41	152	0.018	<20	0.79	0.053	0.19	1.2	0.02	<0.1	1.37	1.9	2.2	3	0.3



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Client: **Ranex Exploration**
 Box 4200
 Smithers BC V0J 2N0 Canada

Project: Sultana
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

SMI10000790.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP 129166	QC		12.7	203.2	2.2	20	0.2	7.5	7.2	214	2.15	6.5	0.7	11.0	43	<0.1	2.9	<0.1	48	1.53	
REP 129166	QC		<2																		
129193	Drill Core	6.94	<2	36.3	465.1	1.6	19	0.3	8.2	8.6	199	2.35	0.7	1.0	8.7	43	<0.1	0.2	0.1	65	0.85
REP 129193	QC			36.2	445.3	1.5	18	0.3	8.3	7.8	185	2.21	0.6	<0.5	7.1	41	<0.1	0.2	0.1	61	0.79
Core Reject Duplicates																					
129166	Drill Core	7.86	<2	11.6	194.2	2.3	18	0.3	6.9	6.7	223	2.15	5.8	0.7	10.8	42	<0.1	2.8	<0.1	48	1.52
DUP 129166	QC		<2	12.5	199.0	2.3	20	0.2	7.2	7.5	226	2.24	6.7	1.4	10.9	43	0.1	2.9	<0.1	50	1.58
129201	Drill Core	6.55	<2	16.8	374.4	2.5	20	0.3	8.0	7.4	241	1.96	1.5	2.3	9.0	164	<0.1	0.2	0.3	50	1.27
DUP 129201	QC		<2	17.1	383.2	2.6	20	0.3	7.9	7.3	249	1.99	1.3	0.5	9.1	167	<0.1	0.2	0.3	50	1.27
Reference Materials																					
STD DS7	Standard			20.9	102.3	69.3	385	0.9	52.8	8.7	579	2.22	45.5	56.3	4.3	64	5.7	5.4	4.6	76	0.88
STD DS7	Standard			19.9	104.8	69.6	411	1.2	54.1	9.4	622	2.41	52.6	67.4	4.8	72	6.0	4.0	4.6	85	0.97
STD DS7	Standard			21.6	113.3	76.7	394	0.9	55.7	9.4	596	2.33	46.5	62.8	4.6	70	5.5	3.9	4.6	78	0.90
STD OREAS45PA	Standard			0.8	554.6	20.5	113	0.3	273.7	96.2	1029	15.09	4.7	42.2	7.1	13	<0.1	0.1	0.2	207	0.22
STD OREAS45PA	Standard			0.8	606.1	19.1	120	0.3	304.3	109.3	1135	17.19	4.3	45.5	6.8	13	<0.1	<0.1	0.2	242	0.25
STD OREAS45PA	Standard			1.1	601.6	23.3	118	0.3	288.0	107.6	1141	16.03	4.2	53.8	8.0	14	<0.1	0.2	0.2	231	0.23
STD OXC72	Standard			197																	
STD OXC72	Standard			195																	
STD OXC72	Standard			192																	
STD OXH66	Standard			1346																	
STD OXH66	Standard			1304																	
STD OXH66	Standard			1270																	
STD OXH66 Expected				1285																	
STD OXC72 Expected				205																	
STD DS7 Expected				20.5	109	70.6	411	0.9	56	9.7	627	2.39	50	70	4.4	72	6.4	4.6	4.5	84	0.93
STD OREAS45PA Expected				0.9	600	19	119	0.3	281	104	1130	16.559	4.2	43	6	14	0.09	0.13	0.18	221	0.2411
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<2																	



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QUALITY CONTROL REPORT

SMI10000790.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	
Pulp Duplicates																			
REP 129166	QC	0.098	12	21	0.49	185	0.081	<20	0.76	0.051	0.20	1.5	0.02	0.1	0.11	2.7	<0.5	4	<0.2
REP 129166	QC																		
129193	Drill Core	0.101	10	24	0.74	159	0.145	<20	0.97	0.058	0.33	3.5	<0.01	0.2	0.15	2.0	0.5	5	<0.2
REP 129193	QC	0.095	10	24	0.67	152	0.137	<20	0.92	0.055	0.32	3.3	<0.01	0.2	0.14	1.9	0.7	5	<0.2
Core Reject Duplicates																			
129166	Drill Core	0.094	12	21	0.48	181	0.084	<20	0.74	0.051	0.20	1.4	0.02	<0.1	0.11	2.7	0.5	4	<0.2
DUP 129166	QC	0.093	12	23	0.50	194	0.085	<20	0.74	0.052	0.19	1.4	0.02	<0.1	0.11	2.8	<0.5	4	<0.2
129201	Drill Core	0.081	10	20	0.65	222	0.072	<20	0.98	0.058	0.20	0.9	0.02	<0.1	0.16	1.8	<0.5	4	<0.2
DUP 129201	QC	0.085	10	19	0.69	226	0.073	<20	0.97	0.055	0.21	1.2	<0.01	0.1	0.16	2.0	<0.5	5	<0.2
Reference Materials																			
STD DS7	Standard	0.069	11	183	0.98	365	0.105	36	0.91	0.082	0.43	3.1	0.20	3.9	0.20	2.0	3.1	4	0.6
STD DS7	Standard	0.079	12	200	1.05	391	0.114	32	1.03	0.094	0.44	3.3	0.25	4.3	0.19	2.3	3.1	5	1.3
STD DS7	Standard	0.075	12	183	1.00	385	0.114	38	0.95	0.090	0.45	3.3	0.23	3.7	0.20	2.2	2.8	4	1.3
STD OREAS45PA	Standard	0.034	16	722	0.11	172	0.123	127	3.34	0.031	0.08	<0.1	0.03	<0.1	<0.05	40.3	1.0	16	<0.2
STD OREAS45PA	Standard	0.037	16	836	0.12	181	0.125	<20	3.68	0.007	0.08	<0.1	0.03	<0.1	<0.05	39.8	0.6	18	<0.2
STD OREAS45PA	Standard	0.034	17	761	0.12	186	0.123	<20	3.41	0.008	0.07	<0.1	0.03	<0.1	<0.05	40.8	0.5	15	<0.2
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXC72	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD OXH66	Standard																		
STD OXH66 Expected																			
STD OXC72 Expected																			
STD DS7 Expected		0.08	13	192	1.05	410	0.124	39	1.0195	0.089	0.44	3.4	0.21	4.2	0.19	2.5	3.5	5	1.18
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03	0.07	0.03	43	0.54	16.8	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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QUALITY CONTROL REPORT

SMI10000790.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank		2	0.2	3.7	3.3	44	<0.1	3.2	4.7	568	1.96	<0.5	0.8	6.5	59	<0.1	<0.1	<0.1	36	0.51
G1	Prep Blank		<2	<0.1	2.0	2.8	45	<0.1	3.1	4.2	553	1.87	<0.5	0.6	4.8	55	<0.1	<0.1	<0.1	35	0.45



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		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
Prep Wash																			
G1	Prep Blank	0.082	11	10	0.57	208	0.120	<20	0.99	0.073	0.48	<0.1	0.02	0.3	<0.05	1.8	<0.5	5	<0.2
G1	Prep Blank	0.080	8	10	0.55	202	0.117	<20	0.94	0.070	0.46	<0.1	0.01	0.3	<0.05	1.8	<0.5	5	<0.2