



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Kaminak Gold Corporation

1020 - 800 West Pender Street  
Vancouver BC V6C 2V6 Canada

Submitted By: Tim Smith

Receiving Lab: Canada-Whitehorse

Received: August 17, 2012

Report Date: August 25, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000692.1

### CLIENT JOB INFORMATION

Project: SUG  
Shipment ID: 2012-SUG05  
P.O. Number: KGC-12-1731  
Number of Samples: 320

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
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: Kaminak Gold Corporation  
1020 - 800 West Pender Street  
Vancouver BC V6C 2V6  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	315	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	320	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. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part: **1 of 2**

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	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 ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
1294910	Soil	1.5	17.3	9.7	60	0.3	16.5	10.0	307	3.59	37.1	1.6	7.3	5.3	17	0.2	1.0	0.2	81	0.23	0.049
1294907	Soil	0.7	18.4	10.7	58	0.1	17.2	10.7	238	3.56	81.2	2.5	4.9	6.0	23	<0.1	2.1	0.2	79	0.41	0.068
1294903	Soil	0.8	24.2	18.6	84	0.2	18.5	12.4	465	2.74	26.4	2.6	6.3	7.8	25	0.3	2.6	0.1	80	0.41	0.089
1285698	Soil	1.1	60.6	31.3	139	<0.1	32.2	15.3	557	3.73	4.2	0.8	1.5	5.6	18	0.2	0.2	0.2	86	0.58	0.071
1294484	Soil	1.0	22.6	9.2	56	0.2	7.2	12.3	429	3.57	83.3	4.3	8.3	8.7	20	<0.1	7.3	0.2	102	0.28	0.073
1294909	Soil	0.7	30.8	7.6	66	0.1	20.1	13.4	387	3.24	37.2	2.5	7.2	9.3	27	0.1	1.4	0.1	83	0.44	0.083
1294904	Soil	0.5	23.4	22.3	78	0.1	18.7	10.0	201	2.74	39.8	1.9	3.5	7.9	21	0.1	3.3	0.1	80	0.39	0.069
1289943	Soil	1.0	21.3	7.1	74	<0.1	21.1	11.0	460	3.42	5.8	0.8	3.0	3.7	17	<0.1	0.3	0.2	54	0.34	0.028
1294485	Soil	0.8	19.6	8.1	67	<0.1	6.0	14.3	460	4.13	83.6	1.4	5.5	9.3	18	<0.1	6.6	0.1	110	0.33	0.071
1294908	Soil	0.5	26.9	8.5	59	0.1	20.0	12.1	252	2.85	37.1	3.1	7.1	7.9	23	0.1	1.5	0.1	79	0.34	0.072
1294905	Soil	0.6	26.8	12.6	71	0.1	18.6	13.8	582	2.91	43.6	3.0	6.3	7.7	25	0.3	2.4	0.1	81	0.43	0.067
1285699	Soil	0.9	49.7	8.2	114	<0.1	24.5	15.7	714	3.51	4.3	1.0	1.1	3.8	37	0.2	0.2	0.2	73	1.17	0.073
1294483	Soil	0.7	17.8	8.7	62	0.1	8.1	12.5	411	3.49	68.8	1.8	2.7	6.9	18	<0.1	5.2	0.1	105	0.27	0.062
1294911	Soil	0.7	17.9	8.3	50	<0.1	18.3	9.8	222	2.49	8.7	1.7	4.0	5.7	24	0.2	0.6	0.2	64	0.41	0.068
1294906	Soil	1.7	30.0	27.3	82	0.5	20.5	20.5	786	3.88	43.7	3.7	5.3	8.7	23	0.4	2.4	0.2	84	0.39	0.081
1294902	Soil	0.9	32.7	25.7	100	0.2	23.6	14.3	336	4.06	48.5	2.3	6.6	8.7	25	0.3	4.4	0.2	95	0.39	0.065
1294500	Soil	0.6	22.4	14.5	76	0.2	21.4	11.4	247	3.07	33.7	1.8	6.5	6.4	23	0.2	1.9	0.1	87	0.34	0.061
1294492	Soil	1.4	14.2	9.3	72	0.1	16.0	27.4	2364	4.31	55.4	1.2	4.2	4.1	22	0.1	1.2	0.2	99	0.35	0.090
1294488	Soil	0.9	17.9	9.2	80	0.2	14.1	13.5	1015	3.60	52.1	1.3	5.1	6.1	23	<0.1	1.4	0.1	92	0.38	0.084
1294487	Soil	1.2	28.8	16.2	93	0.2	13.0	14.0	655	4.00	103.5	2.2	10.0	9.5	24	<0.1	3.6	<0.1	105	0.45	0.107
1294499	Soil	0.7	15.0	9.7	62	0.1	17.9	13.9	851	2.67	17.7	1.0	3.0	4.8	26	0.1	0.9	0.1	72	0.43	0.074
1294493	Soil	0.5	19.3	9.8	62	0.2	16.6	9.5	229	2.69	59.2	2.0	11.0	6.4	21	0.1	1.4	0.2	77	0.34	0.063
1294490	Soil	0.4	16.6	10.0	72	0.1	17.1	11.1	325	3.44	37.6	1.5	3.7	6.2	22	0.1	1.2	0.1	85	0.40	0.075
1294486	Soil	1.0	26.8	11.7	75	0.2	17.7	14.6	553	3.86	61.9	2.6	6.6	9.1	23	0.2	1.8	0.1	103	0.36	0.076
1294927	Soil	0.8	19.6	8.5	63	0.1	18.6	11.2	298	3.63	48.0	1.6	11.3	6.0	22	0.1	0.8	0.1	90	0.35	0.080
1294498	Soil	0.7	27.3	9.3	69	<0.1	20.2	13.3	257	3.22	34.7	2.2	9.8	7.4	25	0.2	1.0	0.1	87	0.42	0.081
1294912	Soil	0.9	20.5	7.3	64	<0.1	22.6	12.9	446	2.79	11.8	1.5	3.4	5.2	27	<0.1	0.6	0.1	69	0.39	0.082
1294489	Soil	0.4	13.9	9.7	71	0.1	14.4	8.7	228	2.69	26.2	1.2	2.8	4.0	21	<0.1	1.0	0.1	73	0.32	0.067
1294928	Soil	0.8	22.7	10.4	66	<0.1	19.5	13.4	359	3.39	26.8	1.7	2.0	7.1	22	0.3	1.0	0.2	94	0.37	0.076
1294491	Soil	0.9	18.8	10.5	74	0.1	16.6	8.8	257	2.61	32.6	1.9	7.2	5.5	22	0.1	1.4	0.1	79	0.36	0.074



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		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
1294910	Soil	10	29	0.51	135	0.107	3	1.92	0.012	0.05	0.2	0.11	3.8	0.1	<0.05	7	<0.5	<0.2
1294907	Soil	13	32	0.66	200	0.111	3	1.88	0.013	0.07	0.1	0.06	4.9	0.2	<0.05	6	<0.5	<0.2
1294903	Soil	15	33	0.73	264	0.124	2	1.81	0.015	0.07	0.3	0.05	5.4	0.2	<0.05	6	<0.5	<0.2
1285698	Soil	10	59	1.97	359	0.171	1	2.35	0.011	0.70	0.1	0.03	4.4	0.4	<0.05	8	<0.5	<0.2
1294484	Soil	19	22	0.70	592	0.208	1	2.41	0.020	0.27	0.2	0.05	4.9	0.4	<0.05	7	<0.5	<0.2
1294909	Soil	20	37	0.80	266	0.153	2	1.80	0.021	0.16	0.2	0.03	6.4	0.2	<0.05	6	<0.5	<0.2
1294904	Soil	14	35	0.71	204	0.141	2	1.91	0.016	0.09	0.2	0.04	5.3	0.3	<0.05	6	<0.5	<0.2
1289943	Soil	8	25	1.31	162	0.165	<1	2.06	0.010	0.33	0.2	0.01	2.7	0.3	<0.05	7	<0.5	<0.2
1294485	Soil	9	21	0.92	673	0.255	1	2.01	0.024	0.44	0.1	0.02	4.4	0.5	<0.05	7	<0.5	<0.2
1294908	Soil	18	33	0.71	252	0.131	2	1.92	0.016	0.07	0.2	0.04	5.8	0.2	<0.05	6	<0.5	<0.2
1294905	Soil	17	34	0.68	269	0.123	1	1.72	0.017	0.08	0.2	0.05	6.7	0.2	<0.05	5	<0.5	<0.2
1285699	Soil	16	36	1.37	433	0.148	1	1.97	0.017	0.36	0.1	0.03	4.3	0.2	<0.05	7	<0.5	<0.2
1294483	Soil	9	22	0.74	563	0.229	1	2.29	0.020	0.25	0.2	0.01	3.5	0.4	<0.05	8	<0.5	<0.2
1294911	Soil	13	33	0.68	163	0.103	2	1.78	0.013	0.06	0.2	0.06	4.4	0.2	<0.05	6	<0.5	<0.2
1294906	Soil	20	39	0.68	373	0.116	2	1.95	0.014	0.07	0.3	0.06	9.2	0.3	<0.05	6	<0.5	<0.2
1294902	Soil	19	39	0.75	263	0.147	1	1.88	0.019	0.09	0.2	0.04	7.0	0.2	<0.05	6	<0.5	<0.2
1294500	Soil	15	37	0.70	246	0.129	2	1.99	0.017	0.07	0.3	0.05	5.6	0.3	<0.05	6	<0.5	<0.2
1294492	Soil	11	32	0.78	254	0.129	2	1.91	0.014	0.06	0.2	0.02	4.1	0.2	<0.05	7	<0.5	<0.2
1294488	Soil	11	33	0.86	327	0.153	2	2.12	0.020	0.09	0.3	0.03	4.4	0.3	<0.05	8	<0.5	<0.2
1294487	Soil	16	29	0.89	545	0.210	1	1.93	0.023	0.29	0.2	0.02	5.1	0.5	<0.05	7	<0.5	<0.2
1294499	Soil	12	32	0.73	263	0.142	2	1.77	0.016	0.07	0.2	0.04	4.5	0.2	<0.05	6	<0.5	<0.2
1294493	Soil	14	36	0.69	228	0.132	2	2.06	0.015	0.09	0.2	0.06	5.6	0.4	<0.05	7	<0.5	<0.2
1294490	Soil	12	33	0.81	221	0.148	1	2.07	0.018	0.08	0.2	0.04	4.8	0.3	<0.05	7	<0.5	<0.2
1294486	Soil	17	33	0.81	477	0.192	1	2.36	0.019	0.19	0.2	0.03	5.2	0.3	<0.05	8	<0.5	<0.2
1294927	Soil	13	35	0.74	282	0.156	2	1.94	0.020	0.11	0.2	0.05	5.0	0.2	<0.05	6	<0.5	<0.2
1294498	Soil	18	37	0.77	362	0.159	2	2.07	0.020	0.09	0.2	0.07	6.3	0.3	<0.05	6	<0.5	<0.2
1294912	Soil	14	32	0.70	224	0.111	2	1.83	0.018	0.07	0.2	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
1294489	Soil	10	30	0.71	190	0.129	2	1.91	0.013	0.07	0.2	0.06	4.0	0.2	<0.05	6	<0.5	<0.2
1294928	Soil	15	37	0.78	238	0.147	2	2.14	0.016	0.08	0.2	0.04	5.3	0.3	<0.05	6	<0.5	<0.2
1294491	Soil	13	33	0.75	229	0.130	2	2.07	0.015	0.08	0.2	0.06	5.1	0.2	<0.05	7	<0.5	<0.2



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		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	0.1	2	0.01
1294494	Soil	0.7	13.7	10.5	69	0.4	14.8	9.2	368	2.82	81.1	1.3	9.9	4.8	22	0.1	1.5	0.1	86	0.37	0.067
1294495	Soil	0.7	11.5	8.2	69	0.1	15.6	9.6	287	2.96	58.2	1.1	8.3	4.3	20	<0.1	0.9	0.1	80	0.34	0.069
1294187	Soil	0.8	22.0	8.7	56	<0.1	79.5	18.5	354	3.89	6.3	0.7	0.5	5.1	25	<0.1	0.3	0.1	86	0.39	0.043
1294193	Soil	1.0	31.5	7.7	66	0.1	31.9	21.0	565	3.91	6.2	1.5	3.7	7.3	30	0.1	0.5	0.2	80	0.84	0.062
1294200	Soil	1.2	13.8	7.8	59	<0.1	15.0	14.9	947	3.80	12.5	1.2	8.0	4.9	20	<0.1	0.5	0.1	57	0.42	0.039
1294901	Rock Pulp	1.1	440.3	21.0	154	0.2	219.2	78.0	846	16.79	2.8	1.2	29.4	7.2	16	<0.1	0.3	0.2	222	0.32	0.042
1294189	Soil	1.3	33.1	6.8	67	<0.1	25.9	18.9	625	3.80	7.4	1.0	2.2	9.4	21	<0.1	0.4	0.2	90	0.39	0.062
1294183	Soil	0.7	37.4	6.5	79	0.1	29.1	20.3	428	3.66	6.2	1.7	2.1	4.6	18	0.1	0.2	0.1	74	0.62	0.067
1294195	Soil	0.7	19.3	7.0	69	<0.1	37.6	18.3	588	3.47	8.2	0.9	9.1	8.9	33	0.2	0.6	0.1	68	0.86	0.088
1294198	Soil	0.8	21.5	5.1	86	<0.1	29.1	22.1	1043	3.14	12.0	0.6	3.6	2.5	19	<0.1	0.2	<0.1	70	0.54	0.047
1294180	Soil	1.2	194.5	26.7	430	<0.1	47.5	25.4	1066	4.56	5.5	0.8	1.6	3.8	25	0.8	0.2	0.2	86	0.43	0.074
1294608	Soil	0.7	45.0	4.8	43	<0.1	38.0	14.2	417	2.66	6.4	0.5	9.2	1.6	16	<0.1	0.4	<0.1	76	0.43	0.036
1294609	Soil	0.6	34.2	9.8	53	<0.1	34.6	11.5	298	2.36	5.4	0.7	1.9	2.2	17	<0.1	0.4	0.1	62	0.35	0.037
1294186	Soil	2.3	20.1	7.9	60	<0.1	31.2	15.9	690	3.24	7.1	2.2	6.2	11.2	23	<0.1	0.5	0.2	64	0.59	0.066
1294182	Soil	0.5	35.4	8.5	65	<0.1	56.3	20.7	607	3.21	5.1	0.9	3.1	7.2	22	<0.1	0.3	0.2	57	0.52	0.050
1294605	Soil	1.1	36.7	12.3	55	0.1	31.9	13.6	412	3.11	36.8	0.8	16.0	3.0	19	0.1	0.6	0.2	76	0.39	0.044
1294607	Soil	0.6	34.9	6.0	49	0.1	32.8	12.4	386	2.77	11.6	0.4	4.1	2.0	19	<0.1	0.5	0.1	72	0.35	0.035
1294610	Soil	0.8	28.1	8.7	62	0.2	21.9	10.1	274	2.61	11.0	0.8	3.9	2.6	22	0.1	0.6	0.1	59	0.38	0.047
1294184	Soil	1.6	22.5	9.5	63	<0.1	48.9	17.2	708	3.37	8.1	2.4	9.7	18.8	19	<0.1	0.8	0.3	69	0.46	0.070
1294185	Soil	1.2	21.3	8.1	69	<0.1	30.4	16.9	460	3.15	6.1	2.3	5.0	8.7	22	<0.1	0.4	0.2	62	0.62	0.056
1294196	Soil	0.4	23.9	7.1	66	<0.1	36.8	14.0	550	2.50	9.6	1.1	3.7	2.6	60	0.2	0.6	0.3	42	2.08	0.056
1294603	Soil	0.9	19.8	12.3	57	<0.1	21.9	11.9	263	2.92	56.8	1.8	12.2	6.9	24	<0.1	0.5	0.2	57	0.47	0.052
1294194	Soil	1.3	24.2	8.8	65	0.1	25.0	17.3	923	3.31	6.0	2.1	10.6	11.0	37	0.2	0.7	0.1	66	1.03	0.066
1294190	Soil	1.0	69.7	5.5	88	<0.1	39.5	39.8	1046	6.63	2.6	0.9	16.6	5.1	19	0.1	0.5	0.3	168	0.77	0.171
1294199	Soil	1.1	17.6	9.0	67	0.1	20.0	15.4	486	3.13	13.7	1.2	3.7	4.2	15	<0.1	0.5	0.1	54	0.28	0.043
1294606	Soil	0.8	36.0	7.1	52	<0.1	32.2	13.2	362	2.79	10.4	0.5	3.4	2.0	17	<0.1	0.6	0.1	74	0.30	0.034
1294181	Soil	1.4	24.2	11.2	82	<0.1	59.0	18.9	521	3.98	6.3	0.9	1.8	6.6	17	0.1	0.2	0.3	73	0.30	0.054
1294192	Soil	0.8	57.0	5.5	63	<0.1	30.5	22.5	564	3.67	11.2	0.7	2.5	2.8	21	<0.1	0.3	<0.1	92	0.57	0.080
1294602	Soil	0.6	12.6	7.9	59	<0.1	27.0	11.9	369	2.92	43.2	1.1	20.1	4.8	26	0.1	0.5	0.1	58	0.60	0.060
1294604	Soil	0.9	18.8	7.5	48	<0.1	19.2	9.2	374	2.39	13.3	0.4	3.8	1.9	16	<0.1	0.5	0.2	63	0.23	0.034



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**Project:** SUG  
**Report Date:** August 25, 2012

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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
		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
1294494	Soil	11	33	0.74	233	0.123	2	2.09	0.014	0.10	0.2	0.06	4.7	0.3	<0.05	7	<0.5
1294495	Soil	10	30	0.76	209	0.155	1	2.05	0.016	0.09	0.2	0.05	4.3	0.3	<0.05	7	<0.5
1294187	Soil	14	105	1.66	237	0.157	2	2.35	0.013	0.19	<0.1	0.02	5.8	0.2	<0.05	7	<0.5
1294193	Soil	26	53	1.28	458	0.129	1	1.93	0.017	0.19	0.1	0.05	6.8	0.2	<0.05	6	<0.5
1294200	Soil	11	25	1.82	115	0.093	<1	2.46	0.009	0.33	0.1	0.02	4.7	0.2	<0.05	7	<0.5
1294901	Rock Pulp	18	671	0.14	151	0.177	5	4.00	0.013	0.06	<0.1	0.05	41.2	0.1	<0.05	21	<0.5
1294189	Soil	20	40	1.13	192	0.127	2	2.16	0.012	0.14	0.1	0.01	5.0	0.3	<0.05	7	<0.5
1294183	Soil	16	54	1.68	292	0.159	1	2.45	0.013	0.47	0.1	0.03	4.7	0.4	<0.05	7	<0.5
1294195	Soil	35	87	1.34	279	0.112	2	1.85	0.013	0.25	0.2	0.06	6.6	0.3	<0.05	6	<0.5
1294198	Soil	8	63	2.14	177	0.152	1	2.42	0.009	0.50	0.1	<0.01	3.0	0.4	<0.05	5	<0.5
1294180	Soil	15	85	2.04	329	0.196	2	2.80	0.011	0.72	0.1	<0.01	3.8	0.4	<0.05	8	0.6
1294608	Soil	8	75	1.03	185	0.080	1	1.84	0.015	0.06	0.1	0.02	5.7	<0.1	<0.05	5	<0.5
1294609	Soil	9	74	0.93	167	0.086	1	1.86	0.017	0.05	0.1	0.02	4.5	0.1	<0.05	5	<0.5
1294186	Soil	25	64	1.21	205	0.118	1	1.99	0.011	0.28	0.2	0.03	4.8	0.3	<0.05	6	<0.5
1294182	Soil	28	133	1.72	140	0.111	2	2.16	0.010	0.25	<0.1	0.01	5.6	0.4	<0.05	6	<0.5
1294605	Soil	14	61	0.92	185	0.073	2	2.08	0.013	0.07	0.1	0.01	5.5	0.1	<0.05	6	<0.5
1294607	Soil	8	65	0.86	152	0.077	1	1.81	0.013	0.06	0.1	0.02	4.7	<0.1	<0.05	6	<0.5
1294610	Soil	11	37	0.68	287	0.091	1	1.82	0.013	0.09	0.1	0.04	4.9	0.1	<0.05	6	<0.5
1294184	Soil	47	76	1.29	174	0.119	<1	2.05	0.011	0.40	0.3	0.02	6.0	0.4	<0.05	6	<0.5
1294185	Soil	27	54	1.19	189	0.117	1	2.00	0.013	0.30	0.2	0.03	4.9	0.3	<0.05	5	<0.5
1294196	Soil	16	56	0.87	194	0.068	2	1.28	0.010	0.17	<0.1	0.04	3.1	0.2	0.08	4	<0.5
1294603	Soil	21	35	0.76	176	0.083	1	1.82	0.016	0.09	0.1	0.04	4.5	0.2	<0.05	6	<0.5
1294194	Soil	54	42	0.80	413	0.079	2	1.67	0.015	0.13	0.2	0.06	6.1	0.2	<0.05	6	<0.5
1294190	Soil	19	67	2.64	418	0.138	1	3.11	0.011	0.78	<0.1	0.03	16.5	0.4	<0.05	11	<0.5
1294199	Soil	11	29	1.05	106	0.082	<1	1.97	0.009	0.10	<0.1	0.03	4.6	0.2	<0.05	6	<0.5
1294606	Soil	8	60	0.83	140	0.082	1	1.88	0.013	0.06	0.1	0.03	4.5	<0.1	<0.05	6	<0.5
1294181	Soil	15	95	1.67	140	0.181	<1	2.67	0.009	0.38	0.1	0.01	3.4	0.3	<0.05	8	<0.5
1294192	Soil	10	60	1.50	305	0.145	1	2.25	0.015	0.25	0.1	0.02	4.7	0.2	<0.05	8	<0.5
1294602	Soil	15	45	0.95	156	0.075	1	1.68	0.013	0.13	0.1	0.03	4.1	0.1	<0.05	6	<0.5
1294604	Soil	9	34	0.53	159	0.067	1	1.60	0.013	0.06	0.1	0.02	3.7	<0.1	<0.05	6	<0.5



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	Method Analyte Unit MDL	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
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1294191	Soil	0.9	43.1	7.0	67	<0.1	29.5	22.7	727	3.85	6.1	0.7	6.3	3.6	20	<0.1	0.3	0.1	88	0.47
1294188	Soil	0.9	26.7	6.8	54	<0.1	25.6	16.9	429	3.75	6.5	0.9	1.6	6.9	20	<0.1	0.3	0.1	83	0.36
1294197	Soil	0.4	31.9	16.3	80	<0.1	37.7	14.7	645	2.75	8.0	1.0	9.0	3.0	67	0.2	0.5	<0.1	44	2.13
1294601	Rock Pulp	1.3	432.0	19.2	158	0.2	208.5	74.4	805	14.82	3.8	1.1	34.6	6.5	14	<0.1	0.4	0.1	203	0.28
1289367	Soil	1.0	38.1	7.1	63	0.1	30.5	13.0	598	2.63	43.6	1.3	14.6	3.7	42	0.2	9.4	0.1	62	1.24
1289386	Soil	1.0	25.8	8.5	58	<0.1	27.0	13.0	486	3.37	12.9	1.4	2.5	6.1	25	<0.1	0.7	0.5	70	0.70
1289384	Soil	1.1	19.6	16.2	53	<0.1	38.4	14.1	515	3.08	6.5	1.3	8.6	15.6	28	0.1	0.7	0.3	61	0.60
1289382	Soil	0.9	23.8	6.7	58	<0.1	23.5	12.6	659	2.87	5.3	1.4	5.2	6.6	34	0.2	0.6	0.1	67	0.96
1289366	Soil	0.8	29.7	8.1	63	0.1	25.5	12.4	504	2.72	60.4	1.5	22.4	5.6	40	0.1	4.2	0.1	64	0.98
1289389	Soil	1.0	37.1	13.2	92	<0.1	33.0	17.9	574	4.59	9.0	1.2	4.1	10.8	11	<0.1	0.5	0.1	60	0.47
1289383	Soil	0.9	20.2	10.1	57	<0.1	35.7	15.3	528	3.20	6.7	1.5	4.3	10.6	28	0.1	0.5	0.1	67	0.60
1289381	Soil	1.4	23.2	8.2	73	<0.1	23.7	13.3	535	3.33	5.7	1.0	4.3	7.0	21	0.1	0.6	0.2	74	0.48
1289363	Soil	0.5	10.2	8.3	55	<0.1	12.8	6.1	227	2.56	118.3	1.9	8.5	4.8	22	0.2	0.6	0.2	64	0.34
1289368	Soil	1.1	30.8	9.2	67	0.2	29.0	11.8	362	2.92	46.4	1.4	13.8	7.7	30	0.2	8.5	0.2	60	0.81
1289388	Soil	1.3	22.5	10.1	70	0.1	32.0	12.3	494	3.41	5.3	1.6	2.0	7.7	25	0.1	0.3	0.1	62	0.55
1289385	Soil	1.4	18.8	12.8	52	<0.1	26.5	11.8	461	3.04	7.7	1.5	4.8	21.3	28	<0.1	0.6	0.5	52	0.40
1289362	Soil	0.7	10.3	9.1	64	<0.1	14.3	10.6	460	3.28	183.9	4.7	88.7	9.8	28	0.1	1.1	0.2	65	0.51
1289369	Soil	1.6	35.5	7.9	65	0.2	34.0	14.8	636	2.94	37.6	1.8	10.9	4.3	34	0.3	3.5	0.1	64	0.90
1289390	Soil	0.7	25.9	5.7	56	<0.1	26.0	11.2	575	2.65	4.8	1.1	1.5	3.5	33	<0.1	0.2	0.2	47	1.07
1289387	Soil	1.0	20.0	11.8	63	0.1	25.3	11.9	438	3.18	11.8	1.3	4.5	7.6	18	0.1	0.5	0.4	56	0.39
1289360	Soil	0.8	14.5	11.8	63	0.2	14.8	9.3	605	2.88	90.7	4.4	17.3	10.2	23	0.2	0.6	0.2	60	0.35
1289361	Soil	1.1	10.1	14.9	75	0.2	13.0	12.4	866	3.63	296.8	5.4	21.4	15.0	29	0.2	2.7	0.2	71	0.45
1289364	Soil	0.7	6.6	9.7	68	<0.1	16.1	11.2	412	2.74	36.9	0.7	5.6	5.5	18	0.1	0.3	0.2	69	0.32
1289365	Soil	0.4	7.0	8.4	45	<0.1	11.0	4.7	142	1.99	27.0	1.0	5.4	1.8	17	0.1	0.3	0.1	43	0.24
1289370	Soil	1.1	33.8	6.6	53	0.1	27.5	10.9	356	2.46	23.4	1.0	9.7	2.9	32	0.3	1.7	<0.1	58	0.69
1289374	Soil	1.3	48.7	10.9	66	0.4	33.5	12.0	582	2.59	40.1	2.4	16.5	2.4	35	0.6	2.0	0.1	52	1.52
1289378	Soil	1.4	26.9	11.0	79	<0.1	24.7	13.3	978	4.08	5.8	1.7	26.7	15.3	22	<0.1	0.8	<0.1	65	0.50
1289371	Soil	1.2	14.4	8.6	49	<0.1	16.0	7.5	307	2.79	41.5	0.6	1.6	3.5	19	0.1	9.4	0.1	55	0.29
1289379	Soil	1.4	27.0	7.2	77	<0.1	26.3	16.2	671	4.21	5.3	0.9	14.9	7.8	20	<0.1	0.4	0.1	88	0.52
1289377	Soil	0.9	8.4	3.3	61	<0.1	8.0	8.4	242	2.73	7.7	0.4	<0.5	1.8	14	<0.1	0.8	<0.1	37	0.30



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	Method Analyte Unit MDL	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
		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
1294191	Soil	13	54	1.46	225	0.103	<1	2.05	0.013	0.15	0.1	0.02	6.2	0.1	<0.05	7	<0.5
1294188	Soil	33	41	1.17	226	0.136	1	2.29	0.010	0.25	0.2	0.03	5.6	0.2	<0.05	7	<0.5
1294197	Soil	17	64	1.00	171	0.078	3	1.43	0.012	0.22	0.1	0.04	3.4	0.3	0.07	5	<0.5
1294601	Rock Pulp	16	682	0.13	145	0.154	4	3.97	0.013	0.06	<0.1	0.03	39.6	0.1	<0.05	20	<0.5
1289367	Soil	15	47	0.70	553	0.058	1	1.48	0.019	0.04	0.1	0.05	5.7	<0.1	0.05	5	0.6
1289386	Soil	22	39	0.98	215	0.089	1	1.89	0.013	0.23	<0.1	0.03	9.3	0.2	<0.05	6	<0.5
1289384	Soil	24	75	1.21	203	0.115	2	1.94	0.014	0.30	0.1	0.03	5.3	0.3	<0.05	6	<0.5
1289382	Soil	29	46	0.90	354	0.085	2	1.75	0.017	0.13	0.1	0.05	6.8	0.1	<0.05	6	<0.5
1289366	Soil	19	44	0.73	300	0.066	1	1.68	0.022	0.05	0.1	0.05	6.1	<0.1	<0.05	6	0.7
1289389	Soil	17	62	1.21	297	0.110	1	2.13	0.008	0.75	0.1	<0.01	6.8	0.4	<0.05	6	<0.5
1289383	Soil	30	73	1.24	248	0.105	<1	1.93	0.014	0.27	0.1	0.03	5.3	0.3	<0.05	6	<0.5
1289381	Soil	24	50	1.25	204	0.130	<1	1.85	0.013	0.29	<0.1	0.02	5.8	0.3	<0.05	7	<0.5
1289363	Soil	17	25	0.46	176	0.073	2	1.37	0.017	0.06	0.3	0.03	3.8	0.1	<0.05	5	<0.5
1289368	Soil	32	51	0.66	718	0.057	2	1.71	0.016	0.07	0.1	0.04	6.5	0.1	<0.05	5	<0.5
1289388	Soil	11	56	1.59	207	0.116	<1	2.13	0.015	0.47	0.1	0.02	4.1	0.4	<0.05	6	<0.5
1289385	Soil	25	44	0.71	181	0.076	1	1.52	0.011	0.17	0.1	0.01	4.2	0.2	<0.05	5	<0.5
1289362	Soil	24	24	0.59	263	0.095	1	1.61	0.017	0.08	0.2	0.03	5.5	0.2	<0.05	5	<0.5
1289369	Soil	14	52	0.70	1158	0.054	1	1.59	0.016	0.06	0.1	0.06	6.3	<0.1	<0.05	5	0.5
1289390	Soil	11	42	1.13	204	0.077	1	1.70	0.013	0.13	<0.1	0.03	3.9	0.2	<0.05	5	0.6
1289387	Soil	15	43	0.94	276	0.098	1	1.84	0.011	0.20	0.1	0.01	5.5	0.2	<0.05	5	<0.5
1289360	Soil	43	26	0.49	275	0.079	<1	2.01	0.014	0.08	0.1	0.04	5.7	0.3	<0.05	7	<0.5
1289361	Soil	35	23	0.60	308	0.085	1	1.93	0.016	0.12	0.3	0.04	6.9	0.3	<0.05	7	<0.5
1289364	Soil	11	26	0.59	125	0.098	1	1.44	0.016	0.07	0.2	0.02	3.5	0.1	<0.05	6	<0.5
1289365	Soil	9	23	0.36	109	0.062	2	1.23	0.012	0.04	0.2	0.04	2.9	<0.1	<0.05	4	<0.5
1289370	Soil	9	48	0.66	399	0.069	2	1.56	0.019	0.06	0.1	0.04	5.5	<0.1	<0.05	5	<0.5
1289374	Soil	16	49	0.59	631	0.044	2	1.40	0.016	0.08	0.1	0.06	7.0	0.1	<0.05	4	1.3
1289378	Soil	110	47	1.13	233	0.134	1	1.84	0.018	0.48	0.1	0.05	9.3	0.3	<0.05	9	0.9
1289371	Soil	8	32	0.45	213	0.053	<1	1.36	0.011	0.06	0.1	0.01	4.0	<0.1	<0.05	4	<0.5
1289379	Soil	27	55	2.03	238	0.174	1	2.63	0.013	0.57	<0.1	<0.01	7.0	0.4	<0.05	10	<0.5
1289377	Soil	3	10	0.65	171	0.099	<1	2.00	0.006	0.15	<0.1	<0.01	3.2	0.1	<0.05	5	<0.5



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	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	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	0.1	2	0.01
1289373	Soil	1.9	30.0	6.9	74	<0.1	28.9	14.3	475	3.31	20.8	0.7	5.5	3.3	16	0.2	2.1	0.1	70	0.32	0.022
1289372	Soil	2.9	53.5	14.7	131	0.3	66.0	16.9	475	4.41	559.0	1.2	73.6	7.3	20	0.4	114.7	0.2	82	0.24	0.037
1285544	Soil	1.4	17.8	6.7	58	<0.1	52.0	18.5	598	3.46	11.9	1.6	10.8	12.6	19	<0.1	0.8	0.3	77	0.29	0.067
1285532	Soil	0.9	40.8	6.9	87	<0.1	35.7	25.2	879	5.82	3.7	0.8	1.1	5.6	26	<0.1	0.4	<0.1	136	0.91	0.142
1285530	Soil	1.0	55.9	37.9	128	<0.1	21.0	22.2	843	5.07	2.9	0.9	2.6	5.9	23	0.2	0.9	0.2	119	0.78	0.131
1289380	Soil	1.6	24.0	9.5	66	0.1	24.5	13.8	510	3.43	4.5	1.1	6.6	7.4	20	0.1	0.4	0.1	72	0.48	0.064
1285554	Soil	0.9	10.7	6.9	65	<0.1	13.7	15.0	730	3.47	18.1	0.9	1.7	4.3	18	0.1	1.8	<0.1	109	0.37	0.086
1285553	Soil	0.8	11.5	8.3	67	<0.1	14.8	12.7	435	3.13	19.8	1.5	8.1	4.9	18	0.2	3.5	<0.1	82	0.32	0.072
1285528	Soil	0.8	28.7	19.6	88	<0.1	114.9	25.2	838	4.51	3.1	1.0	25.5	8.1	31	<0.1	0.4	0.1	100	1.12	0.121
1285531	Soil	0.6	64.2	7.4	77	<0.1	69.4	25.1	685	4.50	2.3	1.0	1.7	7.6	28	<0.1	0.8	<0.1	109	0.84	0.115
1285540	Soil	1.4	46.6	9.9	110	0.2	41.3	19.6	549	4.21	5.2	2.1	12.1	8.0	46	<0.1	0.2	0.2	77	0.52	0.069
1285555	Soil	0.6	11.6	7.9	57	<0.1	13.3	9.9	333	2.56	9.9	2.0	5.1	4.9	19	<0.1	0.8	<0.1	67	0.31	0.060
1285552	Soil	0.4	9.7	6.3	49	<0.1	12.3	6.6	180	2.12	12.2	1.4	2.3	2.8	19	0.1	2.5	<0.1	51	0.29	0.065
1285539	Soil	1.6	52.6	18.5	135	<0.1	67.5	25.3	602	4.22	6.6	1.0	3.1	7.3	26	<0.1	0.2	0.1	76	0.74	0.106
1285549	Soil	0.6	9.3	6.0	48	<0.1	11.8	7.0	190	2.41	13.4	1.4	3.0	3.4	20	0.2	1.7	<0.1	52	0.30	0.081
1285542	Soil	1.4	20.2	31.5	63	0.2	25.9	12.9	662	3.56	8.3	1.9	0.6	18.1	15	0.1	0.2	0.8	34	0.27	0.039
1285548	Soil	0.8	8.7	6.8	55	<0.1	10.9	8.8	275	2.68	17.7	1.0	2.5	4.5	17	0.1	3.7	<0.1	80	0.33	0.074
1285557	Soil	0.6	18.2	9.0	64	0.1	18.8	10.3	260	2.94	16.1	2.0	7.5	6.3	23	0.1	0.7	0.1	77	0.35	0.064
1285546	Soil	0.5	8.0	7.4	55	<0.1	11.3	8.1	259	2.35	15.1	1.4	4.2	4.4	16	0.1	0.8	0.2	55	0.25	0.058
1285538	Soil	0.8	51.6	15.7	94	<0.1	88.9	24.4	499	5.53	4.9	0.9	3.1	11.4	19	<0.1	0.3	0.1	63	0.71	0.076
1285529	Soil	0.8	30.9	13.2	129	<0.1	41.3	19.9	862	4.13	4.7	1.4	9.0	8.1	30	0.2	0.5	0.2	83	1.02	0.116
1285545	Soil	0.7	8.5	7.8	54	<0.1	11.9	9.7	307	2.61	16.9	1.4	9.1	4.1	16	<0.1	1.0	0.1	71	0.27	0.062
1285551	Rock Pulp	2.2	21.1	2.2	40	0.4	22.1	9.6	402	2.35	4.5	0.2	1.4	0.9	33	0.2	0.3	<0.1	58	0.76	0.056
1285537	Soil	0.7	47.9	18.4	123	<0.1	73.6	21.3	736	4.44	15.3	0.8	16.1	10.7	32	0.1	0.7	0.1	64	0.95	0.109
1285527	Soil	1.0	19.3	10.3	71	<0.1	41.1	13.2	509	3.36	3.9	1.3	6.6	12.4	20	<0.1	0.2	0.2	52	0.63	0.087
1285550	Soil	0.8	8.9	7.1	61	<0.1	11.6	11.8	431	2.94	17.3	1.1	3.5	5.4	16	0.1	3.9	<0.1	78	0.33	0.075
1294662	Soil	0.7	15.3	7.3	50	<0.1	22.7	11.2	354	2.61	5.9	0.8	3.6	6.7	16	0.1	0.3	0.4	56	0.32	0.039
1285533	Soil	0.8	29.1	6.8	67	<0.1	50.7	19.0	634	3.72	3.7	0.7	2.7	5.2	27	<0.1	0.3	0.1	72	0.88	0.074
1285536	Soil	0.5	30.1	8.8	74	<0.1	64.3	22.5	913	4.98	5.3	0.9	9.9	13.0	32	0.1	0.5	<0.1	88	1.04	0.085
1285558	Soil	1.7	21.9	9.9	67	0.1	17.3	11.5	466	3.75	40.6	4.3	12.8	15.8	32	<0.1	1.3	<0.1	81	0.65	0.092





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Project: **SUG**  
Report Date: **August 25, 2012**

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	Method Analyte Unit MDL	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
1289373	Soil	7	46	0.73	254	0.056	2	1.84	0.012	0.08	0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
1289372	Soil	17	63	0.59	317	0.024	1	1.47	0.008	0.07	0.1	0.03	6.8	<0.1	<0.05	5	0.9	<0.2
1285544	Soil	16	85	1.33	166	0.117	<1	1.81	0.012	0.53	0.2	0.01	5.7	0.5	<0.05	6	<0.5	<0.2
1285532	Soil	10	60	2.52	422	0.170	2	3.13	0.015	0.71	0.2	<0.01	8.3	0.4	<0.05	11	<0.5	<0.2
1285530	Soil	12	35	1.76	570	0.170	1	2.52	0.010	0.91	0.1	0.01	8.1	0.4	<0.05	8	<0.5	<0.2
1289380	Soil	25	49	1.50	198	0.151	2	2.05	0.015	0.35	<0.1	0.02	5.2	0.4	<0.05	7	<0.5	<0.2
1285554	Soil	9	29	0.77	254	0.165	1	1.74	0.018	0.12	0.2	0.02	3.1	0.2	<0.05	6	<0.5	<0.2
1285553	Soil	10	28	0.69	296	0.151	2	1.75	0.016	0.10	0.2	0.03	3.6	0.2	<0.05	7	<0.5	<0.2
1285528	Soil	22	139	2.45	306	0.176	1	2.62	0.011	0.79	0.2	0.03	7.5	0.5	<0.05	8	<0.5	0.3
1285531	Soil	15	131	2.73	454	0.161	<1	2.89	0.011	0.82	0.3	0.01	7.3	0.5	<0.05	9	<0.5	<0.2
1285540	Soil	22	78	2.39	347	0.147	1	3.01	0.026	0.62	<0.1	0.04	7.3	0.4	0.10	8	0.6	<0.2
1285555	Soil	10	28	0.60	247	0.121	2	1.79	0.015	0.06	0.2	0.03	3.5	0.2	<0.05	6	<0.5	<0.2
1285552	Soil	9	25	0.55	193	0.104	2	1.50	0.015	0.06	0.2	0.04	3.0	0.2	<0.05	5	<0.5	<0.2
1285539	Soil	15	150	3.37	407	0.182	2	3.26	0.013	0.76	0.1	<0.01	3.6	0.3	<0.05	8	0.5	<0.2
1285549	Soil	11	22	0.52	230	0.114	1	1.60	0.015	0.07	0.1	0.03	3.1	0.2	<0.05	5	<0.5	<0.2
1285542	Soil	30	42	0.99	177	0.079	2	1.75	0.019	0.35	0.1	0.02	2.3	0.3	0.05	7	<0.5	<0.2
1285548	Soil	9	26	0.66	261	0.146	2	1.51	0.019	0.11	0.2	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
1285557	Soil	14	34	0.66	227	0.134	1	2.05	0.016	0.07	0.2	0.04	5.0	0.2	<0.05	7	<0.5	<0.2
1285546	Soil	11	24	0.59	171	0.125	2	1.61	0.014	0.07	0.2	0.04	3.0	0.2	<0.05	6	<0.5	<0.2
1285538	Soil	23	115	1.85	206	0.148	2	2.85	0.009	0.87	<0.1	0.02	5.3	0.5	<0.05	7	<0.5	<0.2
1285529	Soil	32	54	1.47	412	0.127	2	2.21	0.012	0.46	0.1	0.04	6.3	0.3	<0.05	6	0.6	<0.2
1285545	Soil	9	26	0.61	174	0.118	2	1.57	0.014	0.07	0.2	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
1285551	Rock Pulp	3	31	0.75	96	0.090	3	1.38	0.082	0.12	13.0	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
1285537	Soil	43	72	1.35	197	0.115	2	2.00	0.008	0.72	0.1	0.04	6.8	0.6	<0.05	7	<0.5	<0.2
1285527	Soil	21	51	1.46	173	0.130	2	1.98	0.007	0.49	0.2	0.03	3.8	0.5	<0.05	6	<0.5	<0.2
1285550	Soil	9	27	0.72	272	0.145	2	1.61	0.017	0.12	0.2	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
1294662	Soil	13	39	0.88	114	0.084	2	1.51	0.012	0.12	0.2	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1285533	Soil	10	84	1.78	232	0.152	2	2.22	0.013	0.45	0.2	0.01	4.6	0.3	<0.05	7	<0.5	<0.2
1285536	Soil	34	77	1.74	366	0.150	2	2.53	0.010	0.94	0.1	0.03	9.1	0.5	<0.05	9	<0.5	<0.2
1285558	Soil	27	32	0.70	337	0.094	1	1.95	0.011	0.25	0.2	0.03	10.1	0.4	<0.05	6	0.6	<0.2



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	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	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	0.1	2	0.01
1294656	Soil	0.8	23.9	11.6	68	0.2	25.8	25.9	1488	3.98	7.1	0.7	14.8	4.4	20	0.1	0.4	<0.1	94	0.42	0.097
1285534	Soil	0.8	33.5	7.3	59	<0.1	28.7	16.8	759	3.42	4.1	1.3	5.1	6.5	43	0.1	0.4	0.1	72	1.33	0.069
1285543	Soil	0.8	12.2	10.0	53	<0.1	12.1	13.2	482	3.18	21.9	2.2	5.0	7.2	16	0.1	1.2	0.1	85	0.27	0.053
1285535	Soil	0.5	29.2	9.1	78	<0.1	53.6	19.5	714	3.95	11.9	1.0	2.1	6.6	35	<0.1	0.7	<0.1	55	1.18	0.068
1294636	Soil	0.6	59.5	7.3	55	<0.1	89.6	36.9	1049	5.64	17.9	0.5	8.3	2.0	16	<0.1	2.4	<0.1	136	0.36	0.054
1285547	Soil	0.6	8.4	6.9	48	<0.1	10.4	7.1	196	2.09	17.4	1.1	7.9	3.2	17	<0.1	1.2	<0.1	50	0.25	0.042
1285541	Soil	1.2	36.1	8.0	81	<0.1	28.6	14.0	486	3.89	6.2	1.7	3.8	5.0	30	<0.1	0.3	0.2	73	0.38	0.053
1285556	Soil	1.6	12.6	9.9	69	<0.1	16.2	21.5	2278	3.88	18.8	1.5	1.4	6.7	21	0.2	1.5	<0.1	108	0.36	0.081
1294651	Rock Pulp	2.4	21.2	2.2	41	0.3	22.3	9.9	387	2.37	4.2	0.3	1.7	0.8	34	0.2	0.3	0.1	57	0.75	0.058
1294664	Soil	1.4	10.9	10.9	57	0.1	21.5	13.5	630	2.56	5.3	1.6	7.7	8.1	22	0.1	0.3	0.2	58	0.46	0.054
1294655	Soil	0.6	31.7	8.5	54	0.1	53.1	25.0	924	4.59	8.1	1.2	37.7	5.5	18	0.1	0.7	<0.1	106	0.37	0.088
1294648	Soil	0.8	29.5	9.4	69	0.1	92.3	25.1	681	3.91	5.3	1.5	6.7	8.2	30	<0.1	0.5	<0.1	84	0.78	0.097
1294284	Soil	0.4	11.0	11.9	51	0.1	14.2	6.8	167	2.28	45.2	1.2	9.5	3.9	19	0.2	2.1	<0.1	51	0.35	0.061
1294285	Soil	0.3	16.7	18.6	69	0.1	17.0	8.1	172	2.36	38.3	2.2	12.0	5.9	18	0.1	3.4	<0.1	64	0.34	0.064
1294663	Soil	1.2	12.5	9.6	57	<0.1	27.6	13.1	499	2.70	6.3	1.2	3.8	9.4	20	0.1	0.4	0.1	64	0.36	0.050
1294665	Soil	1.1	10.0	10.1	55	<0.1	21.4	12.6	455	2.52	5.7	1.1	4.4	8.5	20	<0.1	0.4	0.1	56	0.42	0.054
1294288	Soil	0.8	26.2	8.3	64	0.1	21.0	12.1	396	2.80	24.9	3.1	4.3	6.8	23	0.2	1.0	<0.1	70	0.43	0.088
1294287	Soil	1.1	24.6	22.2	85	0.2	17.9	14.7	775	3.31	79.6	5.8	8.2	7.7	24	0.3	4.3	<0.1	87	0.53	0.086
1294280	Soil	0.4	13.0	36.2	80	0.4	16.4	9.6	264	2.79	43.8	1.3	6.1	6.6	18	0.2	5.3	0.1	80	0.33	0.061
1294661	Soil	0.8	21.9	11.6	69	0.1	29.4	14.6	387	3.00	5.3	1.4	10.4	7.9	17	0.1	0.3	0.1	63	0.33	0.045
1294292	Soil	1.2	30.3	12.5	67	0.2	24.3	12.3	315	3.35	227.0	2.7	23.3	10.0	28	0.2	7.1	<0.1	72	0.51	0.072
1294286	Soil	0.4	18.2	31.1	80	0.3	16.7	9.3	330	3.09	58.1	3.0	7.9	6.6	20	0.2	4.9	<0.1	69	0.37	0.066
1294278	Soil	0.7	19.1	47.8	93	0.6	16.4	12.3	359	3.27	36.7	2.9	7.9	6.1	19	0.3	7.3	0.1	82	0.33	0.071
1294645	Soil	0.8	60.0	12.8	68	0.1	48.1	18.3	352	3.69	21.2	1.4	3.3	8.1	24	0.1	1.8	0.1	63	0.57	0.045
1294268	Soil	1.1	31.4	9.3	85	0.2	37.2	14.7	362	3.04	13.9	1.1	8.7	3.6	24	0.2	1.0	0.2	64	0.43	0.050
1294296	Soil	1.0	32.9	9.4	73	0.3	23.5	15.5	470	3.47	358.9	1.4	26.5	10.0	32	0.2	10.6	0.2	83	0.53	0.071
1294291	Soil	0.6	26.7	9.7	69	0.3	17.7	14.4	596	3.64	293.3	3.9	19.9	8.7	26	0.2	7.2	0.1	77	0.47	0.077
1294281	Soil	0.4	16.4	16.1	74	0.2	17.4	12.9	241	2.79	40.2	1.6	6.2	5.6	19	0.2	3.3	0.2	78	0.31	0.059
1294271	Soil	1.6	41.8	7.9	45	0.5	20.8	6.4	195	2.47	10.3	1.6	4.5	0.3	24	0.5	0.4	0.1	47	0.25	0.092
1294289	Soil	1.0	24.8	7.2	74	0.1	20.7	15.3	767	2.98	84.4	7.4	16.2	9.3	35	0.4	2.8	<0.1	79	0.79	0.074



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## CERTIFICATE OF ANALYSIS

WHI12000692.1

	Method Analyte Unit MDL	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
		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
1294656	Soil	11	50	1.52	295	0.144	2	2.34	0.012	0.31	0.1	0.02	5.4	0.3	<0.05	8	<0.5
1285534	Soil	24	49	1.25	390	0.126	3	2.06	0.018	0.32	0.1	0.05	5.6	0.3	<0.05	6	<0.5
1285543	Soil	16	26	0.59	315	0.142	2	1.74	0.015	0.11	0.2	0.02	5.0	0.2	<0.05	7	<0.5
1285535	Soil	18	86	1.71	276	0.129	2	2.50	0.013	0.58	0.1	0.03	4.1	0.4	<0.05	7	<0.5
1294636	Soil	5	178	1.25	144	0.018	<1	2.19	0.005	0.06	0.2	0.01	16.7	0.1	<0.05	6	0.7
1285547	Soil	9	22	0.55	195	0.127	2	1.47	0.015	0.07	0.2	0.05	2.8	0.2	<0.05	6	<0.5
1285541	Soil	14	54	1.82	253	0.134	1	2.62	0.017	0.34	0.1	0.03	6.0	0.3	<0.05	8	<0.5
1285556	Soil	11	34	0.78	353	0.177	2	1.95	0.019	0.14	0.2	0.02	3.5	0.2	<0.05	8	<0.5
1294651	Rock Pulp	3	29	0.72	92	0.099	2	1.37	0.072	0.11	13.8	<0.01	4.1	<0.1	<0.05	5	<0.5
1294664	Soil	19	43	0.66	177	0.074	2	1.69	0.011	0.09	0.2	0.04	4.3	0.2	<0.05	6	0.5
1294655	Soil	13	82	1.65	270	0.152	2	2.68	0.011	0.24	0.1	0.07	7.5	0.4	<0.05	9	<0.5
1294648	Soil	26	258	2.58	386	0.167	2	2.86	0.013	0.53	0.1	0.05	6.9	0.5	<0.05	8	<0.5
1294284	Soil	10	28	0.51	163	0.083	2	1.56	0.013	0.05	0.2	0.05	3.7	0.2	<0.05	5	<0.5
1294285	Soil	12	32	0.58	180	0.084	2	1.81	0.013	0.05	0.2	0.04	4.6	0.2	<0.05	6	<0.5
1294663	Soil	19	47	0.75	174	0.096	1	1.79	0.012	0.11	0.2	0.02	4.4	0.2	<0.05	6	<0.5
1294665	Soil	16	43	0.70	158	0.089	2	1.64	0.011	0.12	0.2	0.02	4.0	0.2	<0.05	5	<0.5
1294288	Soil	17	31	0.66	219	0.106	2	1.58	0.019	0.10	0.2	0.04	4.7	0.1	<0.05	5	0.6
1294287	Soil	20	32	0.77	237	0.090	2	1.83	0.015	0.06	0.2	0.05	6.0	0.2	<0.05	6	<0.5
1294280	Soil	10	34	0.65	189	0.103	2	1.95	0.013	0.07	0.2	0.06	4.4	0.3	<0.05	6	<0.5
1294661	Soil	20	58	1.00	173	0.099	1	2.00	0.010	0.17	0.2	0.03	5.1	0.2	<0.05	6	<0.5
1294292	Soil	17	41	0.67	271	0.102	2	1.76	0.020	0.12	0.2	0.06	8.3	0.2	<0.05	6	<0.5
1294286	Soil	14	31	0.59	210	0.076	2	1.77	0.015	0.06	0.2	0.05	5.2	0.2	<0.05	6	<0.5
1294278	Soil	16	34	0.65	253	0.081	1	2.00	0.012	0.07	0.2	0.05	6.3	0.3	<0.05	6	<0.5
1294645	Soil	24	59	0.94	207	0.095	1	1.85	0.014	0.12	0.2	0.06	6.7	0.2	<0.05	6	0.8
1294268	Soil	14	41	0.76	494	0.091	2	1.93	0.015	0.07	0.1	0.07	5.9	0.1	<0.05	6	<0.5
1294296	Soil	19	38	0.76	258	0.113	2	1.72	0.025	0.13	0.1	0.08	9.0	0.2	<0.05	5	<0.5
1294291	Soil	19	32	0.65	277	0.068	2	1.76	0.016	0.09	0.1	0.06	7.7	0.2	<0.05	5	<0.5
1294281	Soil	13	36	0.68	195	0.096	2	1.96	0.014	0.05	0.2	0.06	5.3	0.2	<0.05	6	<0.5
1294271	Soil	21	28	0.32	234	0.024	1	1.94	0.013	0.04	0.1	0.06	3.3	0.1	0.06	5	0.6
1294289	Soil	22	30	0.67	251	0.091	2	1.49	0.021	0.07	0.2	0.04	7.6	0.2	<0.05	5	<0.5



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Project: **SUG**  
Report Date: **August 25, 2012**

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## CERTIFICATE OF ANALYSIS

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	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	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	0.1	2	0.01
1294295	Soil	0.5	34.0	10.4	69	0.1	21.6	12.5	288	3.23	38.9	3.4	14.5	9.8	30	0.2	3.5	0.1	87	0.46	0.077
1294279	Soil	0.6	16.3	46.1	89	0.5	16.6	10.0	216	2.72	36.2	1.8	6.9	5.3	22	0.3	7.0	0.2	70	0.31	0.067
1294273	Soil	2.0	20.3	16.1	74	0.2	15.2	9.6	621	2.99	45.3	0.6	5.2	1.5	13	0.4	1.1	0.2	83	0.13	0.048
1294297	Soil	0.7	22.7	9.6	62	0.2	18.0	10.5	223	3.09	53.5	2.0	6.3	7.9	24	0.1	4.2	0.2	82	0.38	0.080
1294294	Soil	0.9	32.5	10.2	69	0.2	21.2	12.5	287	3.56	129.9	3.1	13.1	8.6	33	0.1	4.2	0.1	91	0.54	0.084
1294283	Soil	0.7	15.9	14.1	75	0.1	18.5	11.8	257	2.73	38.5	1.4	5.2	7.1	23	0.2	2.9	0.1	74	0.41	0.068
1294270	Soil	2.1	35.0	10.9	103	0.5	34.3	14.3	387	3.10	29.9	1.3	7.2	3.7	22	0.5	0.8	0.2	68	0.22	0.063
1294293	Soil	1.0	30.5	9.9	62	0.2	22.0	12.9	306	3.20	148.9	2.6	15.9	8.1	31	0.2	4.1	0.2	80	0.49	0.073
1294290	Soil	0.9	32.6	10.0	75	0.3	18.1	13.6	421	3.91	207.4	5.3	26.6	12.2	26	0.2	7.4	0.1	85	0.47	0.086
1294282	Soil	0.7	16.3	19.1	72	0.2	15.4	12.9	1051	2.42	21.9	1.4	8.3	6.3	24	0.2	3.4	0.1	72	0.41	0.061
1294644	Soil	0.7	17.2	9.3	52	<0.1	18.1	9.2	209	2.30	7.4	0.9	5.6	4.7	17	0.1	0.5	0.2	55	0.26	0.047
1294642	Soil	1.1	39.1	6.9	53	<0.1	21.2	16.9	450	3.57	8.9	1.4	6.2	9.2	13	<0.1	1.0	0.3	47	0.40	0.031
1294269	Soil	2.2	43.6	14.0	150	0.5	39.9	13.9	363	3.07	38.9	1.3	14.8	2.8	22	0.8	1.4	0.2	67	0.26	0.065
1294277	Soil	0.7	15.4	32.7	90	0.4	14.8	20.2	1139	2.73	15.2	1.5	5.6	5.1	22	0.2	4.3	0.2	71	0.34	0.071
1294654	Soil	0.6	26.5	5.1	56	<0.1	26.1	19.1	341	4.46	5.8	1.0	1.3	3.2	21	<0.1	0.6	<0.1	101	0.44	0.090
1294647	Soil	0.5	24.0	7.7	97	<0.1	44.0	28.0	855	5.67	9.6	0.6	3.0	5.9	45	0.1	0.9	<0.1	84	0.98	0.120
1294272	Soil	2.1	20.5	39.7	98	0.2	20.9	10.5	445	3.34	28.4	0.6	3.8	2.9	19	0.7	1.1	0.3	93	0.29	0.039
1294274	Soil	1.4	24.9	10.9	70	<0.1	24.9	20.6	2205	3.33	10.8	0.9	32.7	2.8	22	0.2	2.0	0.1	79	0.35	0.053
1294653	Soil	0.8	32.4	7.4	58	0.1	28.8	19.5	352	4.46	7.2	1.2	22.1	4.5	23	<0.1	1.0	<0.1	100	0.49	0.085
1294666	Soil	1.6	14.8	7.0	65	<0.1	24.9	14.7	605	2.88	5.3	1.4	2.9	7.0	29	0.2	0.4	0.1	59	0.76	0.051
1294646	Soil	0.6	44.4	14.2	75	0.1	64.1	21.1	369	4.23	11.2	0.7	5.0	8.9	47	0.2	0.9	0.2	71	1.26	0.077
1294276	Soil	1.0	13.4	33.6	91	0.6	15.2	15.7	1643	3.54	25.5	1.6	5.8	2.9	21	0.2	4.5	0.1	80	0.27	0.096
1294659	Soil	0.7	17.0	10.3	74	<0.1	24.2	10.7	256	3.10	3.5	1.0	8.3	5.9	20	<0.1	0.3	0.2	69	0.35	0.078
1294652	Soil	1.0	22.3	7.7	60	<0.1	25.1	18.6	442	4.24	7.3	0.7	23.5	4.0	22	0.1	0.5	<0.1	96	0.42	0.073
1294650	Soil	0.5	21.5	5.6	58	<0.1	29.3	15.7	417	3.91	6.4	0.6	8.7	3.4	21	<0.1	0.3	<0.1	91	0.41	0.075
1294275	Soil	0.8	14.7	29.8	93	0.4	15.3	11.3	1220	2.76	22.3	1.4	3.3	2.9	19	0.2	4.0	0.1	69	0.29	0.077
1294660	Soil	0.6	23.8	14.1	79	<0.1	30.7	13.6	506	2.99	6.3	1.2	5.0	7.6	23	0.2	0.4	0.3	60	0.40	0.044
1294641	Soil	1.0	32.7	15.6	59	0.1	108.1	19.6	336	3.51	28.2	1.6	5.1	9.8	29	0.1	0.8	0.2	75	0.60	0.101
1294658	Soil	1.0	19.1	14.1	86	<0.1	22.0	16.1	390	4.19	4.0	0.9	14.8	8.2	23	0.1	0.3	0.1	87	0.45	0.104
1294640	Soil	1.1	28.6	13.8	70	<0.1	34.3	16.3	471	3.85	48.4	1.5	9.8	11.9	22	0.1	0.7	0.3	60	0.29	0.040



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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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
1294295	Soil	20	40	0.78	284	0.144	2	2.00	0.019	0.11	0.2	0.06	7.6	0.2	<0.05	7	<0.5	<0.2
1294279	Soil	14	34	0.63	191	0.087	2	1.96	0.016	0.06	0.2	0.05	5.6	0.4	<0.05	6	<0.5	<0.2
1294273	Soil	10	30	0.35	160	0.070	2	1.25	0.012	0.06	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
1294297	Soil	14	36	0.73	188	0.113	2	2.07	0.016	0.08	0.1	0.05	5.6	0.2	<0.05	7	<0.5	<0.2
1294294	Soil	19	40	0.75	260	0.137	1	1.96	0.020	0.10	0.3	0.05	7.4	0.2	<0.05	6	<0.5	<0.2
1294283	Soil	12	34	0.74	184	0.112	1	1.94	0.015	0.06	0.2	0.04	4.6	0.2	<0.05	6	<0.5	<0.2
1294270	Soil	15	41	0.67	253	0.078	1	1.95	0.011	0.08	0.1	0.09	4.9	0.4	<0.05	6	<0.5	<0.2
1294293	Soil	17	38	0.70	268	0.113	1	1.83	0.019	0.09	0.2	0.05	7.1	0.2	<0.05	6	<0.5	<0.2
1294290	Soil	24	32	0.73	299	0.093	1	1.81	0.017	0.11	0.2	0.05	9.1	0.2	<0.05	6	<0.5	<0.2
1294282	Soil	12	32	0.68	197	0.116	2	1.83	0.017	0.06	0.2	0.05	4.7	0.2	<0.05	6	<0.5	<0.2
1294644	Soil	14	35	0.85	139	0.094	<1	1.78	0.010	0.06	0.1	0.06	3.9	0.2	<0.05	5	<0.5	<0.2
1294642	Soil	33	32	1.09	126	0.038	<1	1.87	0.007	0.10	0.2	0.02	7.1	0.2	<0.05	5	<0.5	<0.2
1294269	Soil	14	41	0.60	550	0.063	1	2.03	0.014	0.07	0.2	0.11	4.2	0.5	<0.05	6	<0.5	<0.2
1294277	Soil	12	32	0.69	204	0.106	2	1.98	0.015	0.07	0.2	0.06	5.2	0.3	<0.05	7	<0.5	<0.2
1294654	Soil	12	51	1.39	290	0.140	<1	2.34	0.012	0.24	0.1	0.03	6.3	0.3	<0.05	8	0.6	<0.2
1294647	Soil	23	76	2.51	231	0.180	1	3.16	0.010	0.53	0.1	0.02	5.3	0.5	<0.05	8	<0.5	<0.2
1294272	Soil	12	40	0.64	424	0.079	1	1.85	0.010	0.06	0.2	0.05	5.5	0.2	<0.05	7	<0.5	0.2
1294274	Soil	12	61	0.80	195	0.066	2	1.95	0.012	0.06	0.2	0.02	5.9	0.1	<0.05	8	<0.5	<0.2
1294653	Soil	14	48	1.43	279	0.159	1	2.48	0.013	0.32	0.2	0.03	6.7	0.2	<0.05	7	<0.5	<0.2
1294666	Soil	16	43	0.98	195	0.109	1	1.71	0.014	0.20	0.2	0.03	4.0	0.3	<0.05	5	<0.5	<0.2
1294646	Soil	31	122	1.61	128	0.127	2	2.35	0.016	0.25	0.2	0.04	6.6	0.3	<0.05	7	<0.5	<0.2
1294276	Soil	11	34	0.59	201	0.055	2	1.99	0.012	0.04	0.2	0.07	5.5	0.4	<0.05	7	<0.5	<0.2
1294659	Soil	18	51	1.14	174	0.139	<1	2.13	0.011	0.29	0.1	0.05	4.5	0.3	<0.05	7	<0.5	<0.2
1294652	Soil	10	46	1.37	227	0.162	1	2.37	0.012	0.30	0.1	<0.01	5.5	0.3	<0.05	8	<0.5	<0.2
1294650	Soil	9	55	1.35	217	0.158	1	2.26	0.012	0.25	0.2	0.01	4.9	0.2	<0.05	7	<0.5	<0.2
1294275	Soil	10	33	0.59	187	0.057	2	1.94	0.012	0.04	0.2	0.05	5.4	0.4	<0.05	6	<0.5	<0.2
1294660	Soil	26	61	1.07	183	0.120	<1	2.07	0.009	0.22	0.1	0.03	4.5	0.2	<0.05	7	<0.5	<0.2
1294641	Soil	19	149	1.48	204	0.138	1	2.17	0.013	0.27	0.2	0.03	5.5	0.4	<0.05	7	0.5	<0.2
1294658	Soil	28	38	1.31	223	0.172	<1	2.36	0.011	0.53	0.2	0.04	4.9	0.4	<0.05	8	<0.5	<0.2
1294640	Soil	42	44	0.94	175	0.113	1	2.40	0.012	0.19	0.2	0.04	4.2	0.3	<0.05	7	<0.5	<0.2



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	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	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	0.1	2	0.01
1294511	Soil	1.7	24.9	11.2	63	0.2	21.2	32.4	5352	3.15	69.8	3.2	14.0	5.2	17	0.7	1.7	0.1	69	0.26	0.070
1294509	Soil	0.8	22.5	9.2	57	0.1	18.4	9.9	277	1.99	19.5	2.4	17.0	4.9	26	0.1	1.3	0.2	66	0.47	0.060
1294649	Soil	1.0	29.0	12.9	99	<0.1	33.5	17.3	641	4.38	8.3	1.9	21.6	17.6	25	0.1	1.3	0.2	81	0.55	0.071
1294637	Soil	1.4	54.7	8.8	59	<0.1	35.0	19.7	362	3.92	11.1	0.5	3.2	2.7	14	0.2	0.8	0.2	92	0.14	0.026
1294099	Soil	0.7	15.0	17.6	99	0.2	15.7	11.3	2484	3.03	48.3	1.3	8.8	4.6	23	<0.1	1.8	0.1	77	0.35	0.066
1294508	Soil	0.7	24.2	8.9	57	0.1	19.1	9.0	179	2.11	14.5	2.2	11.0	4.8	25	0.2	1.0	0.2	66	0.41	0.063
1294639	Soil	1.0	13.8	10.0	46	<0.1	31.0	13.5	364	4.33	17.1	1.1	1.7	5.2	13	0.1	2.1	0.2	81	0.15	0.044
1294657	Soil	0.8	23.6	8.6	77	0.1	30.9	18.2	384	4.33	4.9	0.7	17.1	6.1	21	<0.1	0.4	0.1	91	0.39	0.092
1294100	Soil	0.8	19.0	19.7	84	0.4	15.9	11.1	1290	2.57	43.3	1.7	9.6	4.7	22	0.2	2.6	0.2	69	0.35	0.067
1294510	Soil	1.2	21.5	11.1	68	0.3	17.6	19.6	951	2.76	43.1	2.8	10.4	4.5	33	0.2	1.8	0.2	67	0.60	0.078
1294638	Soil	0.5	50.6	8.5	65	0.2	27.4	14.9	402	3.54	47.2	0.6	12.0	3.7	17	0.3	0.7	0.7	62	0.24	0.049
1294643	Soil	2.0	33.5	10.3	66	0.1	19.6	9.6	285	2.80	8.4	1.8	5.5	3.7	17	0.1	0.4	0.2	57	0.42	0.053
1289967	Soil	1.2	15.9	8.3	51	<0.1	11.3	11.3	550	4.06	7.3	0.6	4.9	3.0	14	<0.1	0.4	0.2	81	0.19	0.054
1294518	Soil	0.6	25.6	6.6	57	<0.1	25.4	11.9	504	2.83	9.6	1.1	4.1	5.4	24	0.3	0.6	0.1	73	0.36	0.080
1294506	Soil	1.5	16.1	11.2	66	0.2	16.4	17.2	920	3.02	50.8	1.8	7.6	5.3	30	0.2	1.2	0.2	81	0.53	0.084
1294512	Soil	0.9	34.3	13.6	74	0.4	23.3	13.4	337	4.22	240.3	8.0	21.0	8.2	26	0.5	2.9	0.2	90	0.38	0.058
1289952	Soil	1.2	30.6	9.4	87	<0.1	22.5	17.8	737	4.20	4.1	1.3	1.1	7.1	27	0.1	0.2	0.1	96	0.69	0.080
1294504	Soil	0.6	17.9	11.3	71	0.2	17.6	11.7	276	2.72	33.6	1.3	17.4	6.3	23	0.2	1.3	0.1	82	0.43	0.069
1294514	Soil	1.3	30.5	24.9	90	0.4	20.4	14.2	550	3.11	53.7	5.5	14.3	8.1	27	0.3	3.4	0.1	85	0.52	0.073
1294513	Soil	1.6	19.0	18.1	69	0.3	15.3	9.6	364	3.87	138.8	3.3	8.5	6.1	24	0.2	4.4	<0.1	91	0.47	0.070
1289953	Soil	1.1	54.1	11.3	125	<0.1	42.2	32.7	1457	6.52	3.4	1.3	2.0	9.4	27	0.3	0.2	0.1	140	0.93	0.174
1294501	Rock Pulp	1.0	356.8	16.7	129	0.1	173.9	60.4	623	12.88	2.7	1.0	27.6	5.9	12	0.1	0.3	0.1	179	0.24	0.033
1294515	Soil	0.9	19.4	7.0	53	<0.1	20.2	13.6	495	2.98	58.2	1.7	13.9	8.1	24	0.1	1.2	0.1	79	0.40	0.070
1294502	Soil	0.6	12.5	11.5	84	0.2	16.0	9.9	262	2.91	123.7	1.1	13.1	5.8	21	0.1	1.7	0.1	87	0.39	0.064
1289972	Soil	1.1	27.8	10.4	58	<0.1	28.2	13.7	455	3.57	9.3	1.2	7.5	26.9	14	0.1	0.8	0.3	63	0.18	0.050
1289990	Soil	1.5	21.8	8.1	60	0.1	23.4	11.9	671	3.05	13.1	0.6	1.2	3.3	25	0.2	1.3	0.1	71	0.39	0.016
1294516	Soil	0.9	22.9	6.7	58	<0.1	23.4	13.0	494	2.95	60.6	1.6	11.9	8.2	26	0.2	1.8	0.1	79	0.42	0.080
1294503	Soil	0.8	15.9	12.2	74	0.2	15.7	11.4	324	3.25	101.0	1.2	17.8	6.4	21	0.1	2.0	0.1	93	0.39	0.065
1294507	Soil	1.2	18.6	7.5	58	0.1	16.5	10.8	558	2.33	21.6	1.9	3.8	4.3	28	0.2	0.9	<0.1	67	0.49	0.073
1294517	Soil	1.0	19.7	6.5	67	<0.1	20.2	12.5	543	3.02	37.7	1.5	4.6	7.7	27	0.2	1.2	<0.1	85	0.47	0.086



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Project: **SUG**  
Report Date: **August 25, 2012**

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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
1294511	Soil	20	32	0.56	359	0.082	3	1.99	0.013	0.05	0.2	0.05	5.7	0.2	<0.05	6	<0.5	<0.2
1294509	Soil	14	33	0.62	237	0.102	2	1.70	0.018	0.05	0.2	0.04	5.1	0.1	0.06	5	<0.5	<0.2
1294649	Soil	96	50	0.83	674	0.084	2	1.64	0.017	0.10	0.3	0.18	11.8	0.3	<0.05	5	<0.5	<0.2
1294637	Soil	8	61	0.71	180	0.088	1	2.83	0.012	0.04	0.1	0.04	4.2	0.1	<0.05	8	<0.5	<0.2
1294099	Soil	10	32	0.76	216	0.108	2	1.91	0.013	0.06	0.2	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
1294508	Soil	14	34	0.62	243	0.099	2	1.77	0.015	0.06	0.2	0.05	5.1	0.2	<0.05	6	<0.5	<0.2
1294639	Soil	9	82	0.91	66	0.056	2	2.65	0.008	0.07	0.3	0.03	6.1	0.2	<0.05	9	<0.5	<0.2
1294657	Soil	16	56	1.46	220	0.166	1	2.44	0.013	0.39	0.1	0.04	5.1	0.3	<0.05	9	<0.5	<0.2
1294100	Soil	10	35	0.66	221	0.097	2	1.97	0.012	0.06	0.2	0.07	4.5	0.3	<0.05	7	<0.5	<0.2
1294510	Soil	15	34	0.64	310	0.089	2	1.74	0.018	0.07	0.2	0.07	5.4	0.2	0.06	6	<0.5	<0.2
1294638	Soil	9	36	0.61	135	0.094	2	2.73	0.013	0.09	0.2	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
1294643	Soil	16	31	0.84	110	0.085	1	1.92	0.010	0.13	0.1	0.05	4.3	0.2	0.06	5	0.7	<0.2
1289967	Soil	8	22	1.05	174	0.122	1	2.14	0.010	0.36	0.1	<0.01	5.8	0.2	<0.05	8	0.7	<0.2
1294518	Soil	14	33	0.66	178	0.099	2	1.67	0.020	0.06	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
1294506	Soil	12	37	0.64	265	0.104	2	1.78	0.016	0.06	0.2	0.08	5.4	0.2	0.06	6	<0.5	<0.2
1294512	Soil	29	35	0.63	367	0.090	2	1.98	0.018	0.07	0.2	0.07	8.9	0.3	<0.05	6	<0.5	<0.2
1289952	Soil	22	39	1.38	333	0.184	<1	2.29	0.014	0.46	0.1	<0.01	4.5	0.3	<0.05	8	<0.5	<0.2
1294504	Soil	12	34	0.80	236	0.155	2	1.97	0.017	0.08	0.1	0.04	4.4	0.2	<0.05	6	<0.5	<0.2
1294514	Soil	21	36	0.79	315	0.133	2	1.94	0.019	0.11	0.3	0.06	7.4	0.2	<0.05	6	<0.5	<0.2
1294513	Soil	14	31	0.59	204	0.094	1	1.57	0.016	0.08	0.2	0.07	5.6	0.2	0.05	5	0.5	<0.2
1289953	Soil	26	72	2.94	557	0.265	<1	3.39	0.010	1.32	0.2	0.01	5.4	0.8	<0.05	9	<0.5	<0.2
1294501	Rock Pulp	14	543	0.11	115	0.155	3	3.31	0.011	0.05	<0.1	0.03	31.9	<0.1	<0.05	17	<0.5	<0.2
1294515	Soil	14	30	0.69	241	0.122	1	1.78	0.018	0.07	0.2	0.03	4.0	0.2	<0.05	5	<0.5	<0.2
1294502	Soil	10	32	0.74	222	0.132	2	1.84	0.015	0.09	0.2	0.06	4.3	0.3	<0.05	6	<0.5	<0.2
1289972	Soil	20	41	0.59	136	0.073	1	2.47	0.011	0.07	0.2	0.04	4.1	0.1	<0.05	6	<0.5	<0.2
1289990	Soil	10	36	0.54	406	0.074	1	1.96	0.012	0.09	0.1	0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
1294516	Soil	14	31	0.67	264	0.121	2	1.69	0.021	0.09	0.2	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
1294503	Soil	12	33	0.77	276	0.157	2	1.99	0.014	0.11	0.2	0.04	4.9	0.3	<0.05	7	<0.5	<0.2
1294507	Soil	13	31	0.58	248	0.099	2	1.61	0.017	0.06	0.1	0.07	4.6	0.2	<0.05	6	<0.5	<0.2
1294517	Soil	13	32	0.69	199	0.120	2	1.55	0.022	0.08	0.2	0.02	4.3	0.2	<0.05	5	<0.5	<0.2



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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1294505	Soil	3.1	13.0	9.3	57	0.1	14.9	57.8	3399	4.23	57.2	1.1	6.7	4.2	25	0.2	1.3	0.1	97	0.45
1294097	Soil	1.5	16.1	10.8	80	0.1	13.5	15.4	2230	2.93	37.6	1.6	9.3	4.3	28	0.3	1.4	0.1	74	0.43
1294098	Soil	0.9	13.6	15.6	89	0.2	15.1	15.4	1040	2.92	46.7	1.4	8.4	6.6	23	0.3	1.4	0.1	73	0.40
1294095	Soil	0.9	15.3	10.4	74	0.1	12.6	13.7	1188	2.67	37.6	1.3	4.5	5.2	31	0.3	1.3	0.1	75	0.49
1294096	Soil	0.9	17.4	8.4	81	<0.1	14.4	13.7	782	3.55	51.6	1.3	3.7	7.4	28	0.2	1.6	<0.1	95	0.56
1294094	Soil	0.8	12.7	12.3	67	0.2	11.6	8.7	334	2.45	41.9	1.1	7.5	3.3	18	<0.1	1.3	0.1	79	0.27
1294092	Soil	0.9	11.2	11.0	68	0.1	11.3	18.0	1291	2.86	42.0	0.9	8.8	4.9	16	<0.1	1.3	0.2	82	0.28
1294090	Soil	1.2	33.8	9.8	85	0.6	39.5	13.1	569	2.71	19.9	1.9	5.0	2.2	28	0.7	0.7	0.2	54	0.44
1289835	Soil	1.4	51.6	14.8	86	0.1	65.4	20.1	518	3.94	11.3	1.2	4.1	8.2	90	0.1	0.7	0.2	58	3.94
1289830	Soil	1.1	21.6	7.9	65	<0.1	32.1	16.6	356	3.87	6.8	1.1	5.3	6.2	19	<0.1	0.3	0.2	58	0.29
1294093	Soil	1.1	11.7	12.4	64	0.2	11.6	27.6	2373	3.24	53.8	1.0	3.9	4.9	16	0.1	1.2	0.1	95	0.30
1294091	Soil	0.9	12.0	11.5	68	0.2	12.5	9.3	338	2.63	37.1	1.1	4.4	3.4	17	0.1	1.1	0.1	80	0.28
1289839	Soil	0.6	43.8	7.1	74	<0.1	233.4	25.2	502	3.03	2.6	1.0	4.0	8.6	37	0.2	0.3	<0.1	57	1.38
1289837	Soil	0.8	29.3	10.8	86	<0.1	41.6	18.1	631	3.26	3.1	1.4	3.3	9.6	51	0.2	0.4	0.1	54	1.59
1289845	Soil	1.1	47.8	10.9	93	<0.1	79.0	23.5	408	5.47	2.2	1.3	0.7	8.6	8	<0.1	<0.1	0.1	51	0.21
1289836	Soil	0.6	58.4	19.9	99	0.1	53.5	17.4	568	3.22	7.1	1.5	4.1	7.7	66	0.3	0.7	0.1	51	2.93
1289831	Soil	0.9	25.2	8.9	60	<0.1	24.8	12.3	588	2.81	5.7	2.5	6.1	6.0	43	<0.1	0.5	0.2	42	1.68
1289841	Soil	0.9	37.5	13.2	84	0.1	39.9	17.1	644	3.74	6.5	1.6	6.9	8.5	43	0.2	0.8	0.2	70	1.53
1289834	Soil	0.8	38.2	12.0	74	<0.1	30.2	14.4	572	3.18	8.5	1.6	3.8	4.6	49	0.2	1.4	0.1	58	1.66
1289833	Soil	0.9	36.0	7.4	67	<0.1	24.7	13.2	730	3.10	4.8	1.6	3.6	5.0	41	0.1	1.8	0.2	49	1.68
1289842	Soil	1.0	30.9	8.8	59	0.1	39.3	13.6	505	3.22	9.5	2.2	3.1	10.7	47	0.1	1.3	0.1	49	1.57
1289843	Soil	1.0	25.6	9.2	70	<0.1	28.3	14.5	769	3.08	3.8	1.7	3.9	9.1	39	0.1	0.8	0.1	54	1.52
1289828	Soil	1.1	25.1	9.9	66	<0.1	30.5	15.2	504	3.36	5.2	1.8	2.0	9.2	22	0.1	0.2	0.2	42	0.61
1289832	Soil	1.0	18.2	13.1	65	<0.1	20.6	14.1	639	3.55	5.8	1.1	7.6	8.2	25	0.1	0.6	0.2	61	0.63
1289846	Soil	0.7	32.4	9.8	70	<0.1	35.3	15.2	468	3.67	4.2	1.4	2.3	8.7	41	<0.1	0.2	0.4	52	1.47
1289847	Soil	0.9	29.6	14.1	62	0.1	36.7	16.9	671	3.43	5.9	2.0	3.4	9.6	28	0.2	0.3	0.3	50	0.88
1289844	Soil	0.6	22.7	6.8	53	<0.1	22.2	13.5	638	2.63	4.9	2.1	2.8	4.9	43	0.1	0.7	0.1	40	1.82
1289829	Soil	1.3	41.2	11.5	85	<0.1	73.1	26.8	579	5.00	29.3	1.3	0.6	8.8	37	<0.1	0.1	0.3	68	0.41
1289840	Soil	0.6	49.7	9.8	71	0.1	59.6	15.5	575	3.04	4.2	1.9	2.2	6.3	53	0.2	0.5	<0.1	53	2.37
1289838	Soil	0.9	48.0	19.3	118	0.1	30.2	15.7	767	3.25	3.4	2.3	3.7	10.4	45	0.3	0.6	0.2	62	1.69





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	Method Analyte Unit MDL	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
		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
1294505	Soil	10	31	0.62	247	0.104	2	1.56	0.016	0.05	0.2	0.01	3.8	0.2	<0.05	6	<0.5
1294097	Soil	12	29	0.66	332	0.097	2	1.64	0.015	0.06	0.2	0.03	4.4	0.2	0.05	6	<0.5
1294098	Soil	12	32	0.78	241	0.109	2	1.94	0.015	0.07	0.3	0.04	4.6	0.3	<0.05	6	<0.5
1294095	Soil	13	27	0.67	390	0.120	2	1.55	0.016	0.07	0.3	0.04	4.1	0.3	0.05	6	<0.5
1294096	Soil	14	31	0.83	331	0.144	2	1.65	0.020	0.09	0.5	0.03	4.2	0.2	<0.05	6	<0.5
1294094	Soil	9	27	0.63	176	0.113	2	1.69	0.015	0.05	0.4	0.03	3.6	0.2	<0.05	6	<0.5
1294092	Soil	9	24	0.63	186	0.109	2	1.62	0.015	0.06	0.3	0.03	3.6	0.2	<0.05	6	<0.5
1294090	Soil	19	38	0.61	616	0.054	2	1.75	0.011	0.13	0.3	0.08	6.0	0.2	<0.05	6	0.6
1289835	Soil	29	88	1.32	279	0.083	3	1.88	0.011	0.53	0.1	0.16	8.3	0.3	<0.05	6	<0.5
1289830	Soil	15	38	1.27	210	0.146	<1	2.35	0.013	0.34	0.1	<0.01	3.2	0.3	<0.05	7	<0.5
1294093	Soil	9	25	0.61	190	0.110	1	1.65	0.015	0.06	0.3	0.01	3.7	0.3	<0.05	6	<0.5
1294091	Soil	9	27	0.67	194	0.117	2	1.83	0.016	0.07	0.3	0.03	3.9	0.3	<0.05	6	<0.5
1289839	Soil	22	799	3.30	316	0.120	2	2.48	0.009	0.40	0.1	0.22	5.1	0.5	<0.05	7	<0.5
1289837	Soil	33	63	1.32	375	0.094	3	1.79	0.011	0.41	0.1	0.12	5.0	0.3	<0.05	6	<0.5
1289845	Soil	8	69	2.00	127	0.069	2	3.30	0.007	0.40	<0.1	<0.01	5.0	0.3	<0.05	9	<0.5
1289836	Soil	31	85	1.18	341	0.072	3	1.58	0.011	0.34	0.1	0.25	7.1	0.3	<0.05	5	<0.5
1289831	Soil	26	36	0.97	226	0.059	3	1.44	0.011	0.26	0.1	0.05	5.1	0.3	<0.05	4	0.5
1289841	Soil	29	58	1.24	370	0.109	3	1.91	0.015	0.43	0.2	0.15	7.7	0.3	<0.05	6	0.7
1289834	Soil	18	43	0.98	336	0.064	4	1.55	0.015	0.30	<0.1	0.19	7.6	0.2	<0.05	5	<0.5
1289833	Soil	21	32	1.02	332	0.055	2	1.58	0.011	0.29	<0.1	0.66	7.1	0.3	<0.05	5	0.6
1289842	Soil	44	54	0.83	312	0.060	3	1.49	0.012	0.30	0.1	0.22	7.0	0.3	<0.05	5	<0.5
1289843	Soil	32	47	1.18	411	0.064	3	1.69	0.012	0.29	0.1	0.12	7.0	0.3	<0.05	5	<0.5
1289828	Soil	22	37	1.06	132	0.084	1	1.70	0.010	0.36	0.1	0.02	4.2	0.3	<0.05	5	<0.5
1289832	Soil	12	41	0.99	168	0.084	2	1.87	0.015	0.26	0.2	0.06	5.1	0.2	<0.05	5	<0.5
1289846	Soil	27	46	1.41	242	0.100	3	2.00	0.015	0.48	0.1	0.02	5.5	0.4	<0.05	6	<0.5
1289847	Soil	44	42	1.04	180	0.077	1	2.03	0.014	0.27	<0.1	0.02	5.1	0.3	<0.05	6	<0.5
1289844	Soil	21	34	0.99	222	0.056	2	1.40	0.011	0.17	0.1	0.07	4.9	0.2	<0.05	4	<0.5
1289829	Soil	23	88	1.83	257	0.177	1	2.76	0.021	1.00	<0.1	0.01	4.5	0.5	0.12	8	<0.5
1289840	Soil	29	118	1.04	464	0.077	3	1.41	0.010	0.34	0.1	0.19	7.6	0.3	<0.05	5	0.6
1289838	Soil	56	48	1.06	557	0.095	4	1.70	0.013	0.37	0.2	0.13	6.0	0.3	<0.05	6	<0.5



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Project: **SUG**  
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## CERTIFICATE OF ANALYSIS

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	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	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	0.1	2	0.01
1294624	Soil	1.4	21.9	9.0	80	<0.1	15.0	15.9	791	3.85	26.3	1.5	4.7	9.1	24	0.2	1.0	<0.1	105	0.61	0.100
1294618	Soil	0.7	16.3	18.7	73	0.3	16.3	11.5	291	3.42	41.2	1.7	4.1	6.7	18	0.2	2.8	0.1	83	0.31	0.074
1289954	Soil	1.2	69.2	8.8	92	0.2	17.5	11.3	471	2.91	5.2	1.2	1.8	4.1	23	0.2	0.3	0.1	62	0.73	0.043
1289970	Soil	0.6	44.8	12.1	74	0.1	83.0	23.6	864	4.56	3.2	0.7	1.8	5.2	44	0.2	0.1	<0.1	77	1.51	0.134
1294620	Soil	0.7	21.5	18.9	69	0.3	18.4	12.4	241	3.44	69.5	2.9	12.8	8.5	20	0.2	3.1	0.1	83	0.35	0.066
1294619	Soil	0.8	18.9	17.1	77	0.3	17.5	13.8	384	3.49	42.8	2.0	13.6	8.1	20	0.3	2.7	<0.1	89	0.37	0.074
1289991	Soil	1.7	39.2	11.6	68	0.3	51.7	14.8	675	3.27	42.3	3.1	6.4	12.1	26	0.3	3.0	0.1	59	0.55	0.055
1289973	Soil	1.2	17.2	10.0	60	<0.1	29.7	12.7	452	3.49	9.0	0.9	2.0	11.0	15	0.2	0.6	0.1	71	0.18	0.033
1294621	Soil	0.5	14.1	11.1	67	0.2	16.3	10.8	412	3.04	40.8	1.6	8.2	5.7	19	0.1	1.3	0.2	76	0.34	0.062
1294617	Soil	0.8	18.2	13.9	80	0.2	14.4	14.4	550	3.81	34.0	2.1	4.3	8.6	18	0.2	2.7	0.1	107	0.34	0.078
1289985	Soil	1.2	23.0	9.1	60	0.1	26.8	11.5	413	2.79	19.6	1.5	6.6	12.1	27	0.2	1.2	0.1	56	0.73	0.041
1289969	Soil	0.9	63.8	19.8	66	0.2	166.9	32.2	856	4.91	13.8	2.8	2.3	24.4	22	<0.1	0.5	0.2	88	0.54	0.144
1294623	Soil	1.4	18.2	7.1	70	<0.1	15.6	13.3	693	3.15	21.0	1.3	4.6	6.1	24	0.1	0.8	0.1	86	0.47	0.077
1294615	Soil	2.6	33.4	24.4	96	0.3	43.2	11.2	442	3.60	91.9	0.8	5.6	5.0	17	0.5	2.3	0.2	96	0.22	0.048
1289987	Soil	1.7	30.4	11.5	60	0.1	32.6	13.0	507	2.88	41.2	1.9	6.4	8.6	27	0.2	3.3	0.1	63	0.72	0.045
1289971	Soil	1.5	18.0	10.1	55	<0.1	25.4	11.9	401	3.49	13.3	0.6	7.0	5.3	14	0.2	0.6	0.2	84	0.17	0.046
1294622	Soil	1.1	19.4	8.3	74	0.1	17.6	14.9	733	3.43	37.4	1.6	4.9	6.7	22	0.2	1.0	0.2	91	0.48	0.101
1294629	Soil	0.7	23.0	8.1	60	0.1	19.6	12.1	304	2.66	32.1	1.7	7.3	6.2	25	0.3	1.2	0.1	71	0.45	0.075
1294627	Soil	0.8	27.9	8.5	63	0.2	22.4	12.7	356	2.88	27.0	3.0	4.7	7.2	26	0.2	1.0	0.2	81	0.48	0.086
1294612	Soil	1.7	51.3	10.5	121	0.3	37.1	14.4	517	3.45	20.8	1.3	4.1	5.9	23	0.3	0.6	0.2	92	0.25	0.068
1294616	Soil	2.4	37.9	52.1	136	0.8	31.4	12.6	486	3.41	39.0	1.2	10.1	3.6	18	0.7	1.2	0.3	94	0.29	0.071
1294634	Soil	1.7	27.9	13.8	66	<0.1	23.4	12.3	520	3.08	64.7	1.3	6.9	5.6	22	0.2	1.2	0.1	75	0.35	0.067
1294628	Soil	0.6	28.0	8.5	60	0.1	20.7	12.8	260	2.94	49.3	2.0	3.6	7.5	24	0.2	1.4	0.1	85	0.44	0.084
1294614	Soil	1.5	28.8	12.8	84	0.1	35.8	14.3	585	3.68	30.1	0.7	5.7	3.5	18	0.3	0.6	0.2	89	0.22	0.036
1294633	Soil	1.0	27.8	7.2	64	<0.1	22.5	11.8	355	2.92	78.6	3.2	10.1	6.6	26	0.2	1.3	0.1	76	0.40	0.082
1294632	Soil	1.3	25.6	7.3	64	0.2	18.0	12.1	580	2.83	184.2	4.2	18.8	6.7	29	0.2	2.2	<0.1	77	0.53	0.102
1294631	Soil	1.2	26.2	6.1	61	<0.1	19.6	13.0	530	2.81	86.6	2.4	8.4	6.7	29	0.1	1.3	<0.1	76	0.47	0.094
1294613	Soil	2.0	47.4	12.2	107	0.3	35.6	13.9	414	3.40	56.0	1.5	3.7	10.3	12	0.2	0.4	0.2	55	0.13	0.069
1294626	Soil	2.5	20.1	8.8	74	0.1	18.4	19.3	2513	3.45	27.4	2.3	122.6	7.7	24	0.3	1.2	0.2	100	0.48	0.092
1294635	Soil	0.9	40.1	8.3	69	0.2	22.7	13.9	370	3.38	55.1	2.9	10.5	8.6	28	0.2	2.5	0.1	91	0.55	0.078



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	Method Analyte Unit MDL	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
		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
1294624	Soil	10	35	0.98	326	0.183	2	1.87	0.019	0.14	0.3	0.03	4.3	0.3	<0.05	7	<0.5
1294618	Soil	11	34	0.69	179	0.109	1	2.29	0.012	0.07	0.3	0.04	4.9	0.2	<0.05	7	<0.5
1289954	Soil	14	34	0.83	369	0.104	1	1.77	0.015	0.16	0.1	0.03	4.3	0.2	<0.05	7	<0.5
1289970	Soil	10	137	2.35	220	0.168	1	2.68	0.011	0.66	0.2	0.01	3.6	0.6	<0.05	9	<0.5
1294620	Soil	16	37	0.75	238	0.109	<1	2.09	0.014	0.08	0.2	0.05	6.4	0.2	<0.05	6	<0.5
1294619	Soil	14	35	0.75	237	0.125	2	2.17	0.015	0.09	0.2	0.04	5.7	0.2	<0.05	7	<0.5
1289991	Soil	36	59	0.66	981	0.034	2	1.64	0.013	0.07	0.1	0.11	8.0	0.1	<0.05	5	<0.5
1289973	Soil	13	58	0.83	168	0.086	2	2.46	0.012	0.09	0.1	0.02	4.0	0.2	<0.05	7	<0.5
1294621	Soil	10	33	0.72	202	0.118	<1	2.09	0.014	0.07	0.3	0.05	4.4	0.3	<0.05	6	<0.5
1294617	Soil	12	35	0.83	213	0.143	<1	2.42	0.013	0.12	0.3	0.02	4.7	0.3	<0.05	8	<0.5
1289985	Soil	25	48	0.61	308	0.074	1	1.57	0.015	0.09	0.2	0.07	5.9	0.2	<0.05	5	<0.5
1289969	Soil	47	204	0.58	147	0.015	<1	1.49	0.006	0.07	0.1	0.01	12.2	0.1	<0.05	5	0.6
1294623	Soil	12	33	0.75	287	0.127	2	1.66	0.016	0.08	0.4	0.02	4.1	0.2	<0.05	6	<0.5
1294615	Soil	15	65	0.69	430	0.072	2	2.02	0.009	0.08	0.1	0.04	5.7	0.3	<0.05	7	<0.5
1289987	Soil	24	51	0.57	322	0.050	2	1.33	0.015	0.08	0.2	0.10	7.1	0.1	<0.05	5	<0.5
1289971	Soil	10	42	0.49	228	0.058	2	2.11	0.010	0.05	0.1	0.03	4.5	0.1	<0.05	8	<0.5
1294622	Soil	13	35	0.82	261	0.125	2	1.91	0.015	0.08	0.3	0.04	4.7	0.2	<0.05	6	<0.5
1294629	Soil	15	34	0.68	217	0.103	2	1.71	0.018	0.07	0.2	0.04	5.1	0.2	<0.05	5	<0.5
1294627	Soil	18	37	0.76	269	0.119	2	2.06	0.018	0.08	0.2	0.05	6.0	0.2	<0.05	6	<0.5
1294612	Soil	18	62	1.08	443	0.101	2	2.55	0.015	0.28	0.3	0.04	5.4	0.3	0.08	8	<0.5
1294616	Soil	16	48	0.70	395	0.070	1	2.21	0.010	0.10	0.1	0.07	7.0	0.3	<0.05	8	<0.5
1294634	Soil	13	34	0.64	192	0.091	2	2.04	0.014	0.09	0.2	0.04	5.7	0.2	<0.05	6	<0.5
1294628	Soil	17	38	0.71	242	0.123	2	1.85	0.019	0.09	0.2	0.04	5.9	0.2	<0.05	6	<0.5
1294614	Soil	12	56	0.69	341	0.060	1	2.43	0.010	0.06	0.1	0.02	5.9	0.2	<0.05	7	<0.5
1294633	Soil	17	34	0.66	231	0.113	2	1.80	0.019	0.08	0.2	0.05	5.9	0.2	<0.05	5	<0.5
1294632	Soil	16	31	0.64	206	0.110	1	1.41	0.029	0.11	0.2	0.02	5.8	0.2	<0.05	5	<0.5
1294631	Soil	13	30	0.65	238	0.113	2	1.62	0.021	0.10	0.2	0.02	4.2	0.2	<0.05	5	<0.5
1294613	Soil	29	37	0.67	129	0.019	<1	1.49	0.004	0.16	<0.1	0.01	3.7	0.3	<0.05	6	<0.5
1294626	Soil	14	38	0.81	325	0.132	2	1.91	0.015	0.08	0.3	0.04	5.2	0.3	<0.05	6	<0.5
1294635	Soil	19	41	0.81	327	0.130	2	2.00	0.021	0.13	0.1	0.04	8.3	0.2	<0.05	6	<0.5



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## CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	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	0.1	2	0.01
1294611	Soil		1.4	24.5	8.6	74	0.3	26.1	11.8	411	2.92	23.3	0.9	5.6	1.8	25	0.2	0.9	0.1	69	0.45	0.071
1294630	Soil		1.1	26.9	8.9	70	0.2	22.0	15.4	741	3.34	212.5	3.1	37.8	9.9	22	0.3	1.4	0.1	82	0.40	0.100
1289976	Soil		2.7	26.8	11.3	55	<0.1	32.7	11.3	422	3.23	16.5	2.3	5.6	30.5	31	<0.1	2.7	0.3	57	0.34	0.027
1289984	Soil		1.6	22.9	9.8	65	0.2	19.1	12.1	747	3.02	27.3	2.8	4.6	8.0	36	0.1	0.7	0.1	66	1.03	0.061
1289992	Soil		1.7	35.4	8.7	85	0.1	42.9	14.3	494	3.38	76.9	1.3	6.2	6.0	15	0.2	6.0	0.1	76	0.39	0.050
1294625	Soil		1.2	21.2	9.4	74	0.2	19.3	13.4	709	2.85	16.7	3.2	3.9	7.7	25	0.2	1.0	0.1	83	0.49	0.077
1289983	Soil		1.2	13.6	9.3	57	<0.1	14.3	9.0	432	2.94	31.2	0.9	3.9	7.1	18	0.2	0.6	0.3	62	0.31	0.036
1289978	Soil		1.3	11.8	8.9	69	<0.1	12.0	14.3	729	3.66	82.5	1.3	10.3	8.3	21	<0.1	0.7	0.1	93	0.35	0.069
1289988	Soil		2.4	27.9	11.4	137	<0.1	22.3	10.7	1058	5.59	79.7	1.5	3.2	11.0	20	0.1	4.3	0.3	61	0.44	0.061
1289957	Soil		1.0	22.6	7.0	63	<0.1	45.2	19.9	623	3.98	4.8	0.9	0.7	6.1	23	<0.1	0.2	0.2	93	0.57	0.063
1289981	Soil		1.1	16.9	9.2	74	0.1	17.7	11.3	446	3.13	73.9	1.7	10.6	9.2	29	0.1	0.7	0.1	68	0.60	0.060
1289980	Soil		0.9	7.7	16.2	78	<0.1	7.2	7.0	346	2.72	105.9	3.7	14.4	19.3	47	<0.1	1.2	<0.1	58	0.44	0.089
1289956	Soil		1.2	54.2	7.2	69	0.2	29.7	16.3	698	3.48	4.7	1.3	2.6	6.0	23	0.1	0.2	0.2	87	0.71	0.061
1289968	Soil		0.8	55.7	19.8	55	<0.1	32.8	21.8	493	3.85	61.8	0.6	4.6	4.2	19	0.1	0.3	1.5	90	0.33	0.031
1289989	Soil		1.9	12.8	6.9	53	<0.1	15.8	9.9	564	2.99	8.9	0.5	1.5	2.4	18	0.2	0.8	0.1	68	0.26	0.021
1289982	Soil		1.1	17.5	8.7	62	<0.1	16.1	12.0	567	3.13	47.8	1.4	7.0	9.7	22	<0.1	0.7	0.2	69	0.46	0.048
1289955	Soil		1.4	187.2	6.9	285	<0.1	22.0	17.8	554	4.12	3.6	1.4	3.6	5.5	22	0.5	0.1	0.2	99	0.50	0.079
1289977	Soil		2.2	31.7	10.7	75	0.1	30.2	13.7	422	3.70	27.8	0.9	2.0	3.9	14	0.2	3.4	0.2	82	0.17	0.028
1294048	Soil		0.7	25.4	7.5	48	<0.1	53.0	13.3	310	3.02	5.1	0.9	6.7	8.3	23	<0.1	0.5	0.2	76	0.46	0.048
1289965	Soil		1.0	36.1	7.3	60	<0.1	14.6	9.9	456	3.32	5.7	0.8	5.9	6.6	19	<0.1	0.3	0.2	83	0.20	0.024
1289979	Soil		1.4	11.1	12.2	75	<0.1	11.4	10.2	739	3.14	45.2	3.3	9.2	12.4	27	0.2	1.1	0.1	58	0.32	0.058
1289963	Soil		1.0	49.2	16.6	100	0.1	41.9	16.0	578	4.02	7.7	1.1	6.4	15.5	16	0.1	0.4	0.1	73	0.59	0.085
1294049	Soil		1.0	26.6	8.2	56	<0.1	43.2	15.1	442	3.34	6.7	0.9	3.0	7.8	21	<0.1	0.7	0.1	74	0.43	0.052
1289966	Soil		1.3	19.1	11.2	54	<0.1	16.9	9.7	405	2.99	9.4	0.8	4.0	4.9	10	0.1	0.4	0.2	55	0.14	0.028
1289960	Soil		1.4	12.5	6.3	56	<0.1	18.8	10.6	440	3.04	3.4	1.5	2.8	22.9	18	<0.1	0.4	0.1	50	0.50	0.064
1289975	Soil		2.8	27.3	11.5	72	0.1	27.4	12.9	679	3.65	42.9	3.8	16.6	19.7	27	0.1	5.2	0.2	45	0.21	0.031
1294050	Soil		1.6	23.6	8.7	46	<0.1	27.7	11.6	240	2.63	7.0	2.5	4.1	9.4	23	0.1	0.5	0.2	69	0.40	0.043
1289961	Soil		0.9	21.9	8.4	62	<0.1	35.0	14.3	560	3.23	6.6	1.7	4.6	12.8	32	<0.1	0.6	0.1	68	1.01	0.049
1289959	Soil		1.0	54.4	8.2	83	<0.1	50.2	29.5	750	5.22	4.2	0.8	2.3	5.1	23	0.1	0.2	<0.1	123	0.82	0.108
1289962	Soil		1.0	42.9	8.3	73	<0.1	48.0	18.0	643	3.79	3.6	1.2	2.7	12.6	33	<0.1	0.6	0.1	74	1.11	0.083



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Project: **SUG**  
Report Date: **August 25, 2012**

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## CERTIFICATE OF ANALYSIS

WHI12000692.1

	Method Analyte Unit MDL	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
1294611	Soil	10	42	0.64	530	0.071	1	1.93	0.012	0.07	0.1	0.05	4.9	0.2	<0.05	6	<0.5	<0.2
1294630	Soil	16	30	0.75	220	0.119	2	1.75	0.021	0.12	0.2	0.03	4.7	0.2	<0.05	6	<0.5	<0.2
1289976	Soil	65	56	0.57	348	0.050	2	1.34	0.011	0.10	0.2	0.09	8.0	0.1	<0.05	5	<0.5	<0.2
1289984	Soil	34	31	0.58	517	0.072	2	1.59	0.015	0.10	0.1	0.07	6.1	0.2	0.05	6	<0.5	<0.2
1289992	Soil	14	47	0.70	501	0.068	1	1.63	0.008	0.19	0.1	0.05	6.1	0.3	<0.05	6	<0.5	<0.2
1294625	Soil	15	39	0.76	281	0.115	1	1.98	0.016	0.08	0.2	0.04	6.0	0.2	<0.05	7	<0.5	<0.2
1289983	Soil	18	27	0.52	240	0.075	1	1.52	0.013	0.12	0.1	0.03	4.3	0.2	<0.05	7	<0.5	<0.2
1289978	Soil	14	25	0.69	223	0.121	1	1.98	0.017	0.17	0.3	0.03	6.9	0.3	<0.05	7	<0.5	<0.2
1289988	Soil	30	35	0.75	454	0.035	<1	2.33	0.012	0.08	<0.1	0.02	9.0	0.1	<0.05	11	0.6	<0.2
1289957	Soil	14	83	1.78	307	0.179	<1	2.44	0.015	0.35	0.1	0.02	4.6	0.3	<0.05	8	<0.5	<0.2
1289981	Soil	26	32	0.64	323	0.077	1	1.63	0.016	0.10	0.2	0.03	5.6	0.2	<0.05	6	<0.5	<0.2
1289980	Soil	30	15	0.51	336	0.102	2	1.21	0.011	0.28	0.6	0.07	7.2	1.9	<0.05	6	<0.5	<0.2
1289956	Soil	21	52	1.42	307	0.149	<1	2.12	0.016	0.21	0.1	0.03	5.5	0.2	<0.05	8	<0.5	<0.2
1289968	Soil	15	34	1.53	207	0.127	<1	2.43	0.010	0.31	<0.1	0.02	6.5	0.3	<0.05	6	<0.5	<0.2
1289989	Soil	6	27	0.42	256	0.037	<1	1.91	0.012	0.05	0.1	0.02	3.7	<0.1	<0.05	7	<0.5	<0.2
1289982	Soil	26	30	0.65	306	0.087	<1	1.64	0.016	0.10	0.2	0.04	5.7	0.2	<0.05	6	<0.5	<0.2
1289955	Soil	13	44	2.04	512	0.181	<1	2.58	0.018	0.56	<0.1	0.02	4.9	0.2	0.09	8	0.6	<0.2
1289977	Soil	8	44	0.59	338	0.057	<1	2.08	0.008	0.07	0.1	0.02	5.0	0.2	<0.05	7	0.6	<0.2
1294048	Soil	21	93	1.30	163	0.132	1	2.04	0.016	0.15	0.2	0.04	5.4	0.3	<0.05	6	<0.5	<0.2
1289965	Soil	15	24	1.31	176	0.106	<1	2.07	0.020	0.29	<0.1	0.01	5.5	0.3	0.23	6	<0.5	<0.2
1289979	Soil	18	22	0.41	175	0.059	2	1.12	0.012	0.10	0.2	0.10	5.7	0.7	<0.05	4	<0.5	<0.2
1289963	Soil	34	64	1.40	235	0.081	1	1.80	0.011	0.54	0.2	0.06	8.2	0.4	0.09	6	<0.5	<0.2
1294049	Soil	11	79	1.30	171	0.113	2	2.26	0.012	0.25	0.2	0.02	5.3	0.3	0.05	6	<0.5	<0.2
1289966	Soil	11	27	0.48	137	0.058	1	1.97	0.009	0.08	0.1	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2
1289960	Soil	44	35	1.08	177	0.112	1	1.70	0.011	0.28	0.1	0.01	4.0	0.4	<0.05	7	<0.5	<0.2
1289975	Soil	44	37	0.31	334	0.011	2	0.77	0.005	0.10	0.1	0.18	10.4	0.1	<0.05	3	<0.5	<0.2
1294050	Soil	22	45	0.72	215	0.088	2	1.89	0.016	0.06	0.2	0.05	5.6	0.2	<0.05	6	<0.5	<0.2
1289961	Soil	47	67	1.00	329	0.105	2	1.82	0.017	0.16	0.1	0.06	6.5	0.2	0.06	6	<0.5	<0.2
1289959	Soil	12	101	2.15	653	0.188	<1	2.84	0.014	0.54	0.1	0.02	7.7	0.3	<0.05	9	<0.5	<0.2
1289962	Soil	39	96	1.88	328	0.118	1	2.25	0.012	0.44	0.1	0.02	7.5	0.4	<0.05	7	<0.5	<0.2



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**Project:** SUG  
**Report Date:** August 25, 2012

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## CERTIFICATE OF ANALYSIS

WHI12000692.1

	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 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1294052	Soil	0.9	27.7	8.1	56	<0.1	34.3	13.3	286	2.89	5.6	2.0	2.1	10.6	23	<0.1	0.4	0.1	72	0.45	0.051
1289958	Soil	1.3	27.6	6.8	69	<0.1	34.7	25.3	686	4.24	3.5	0.8	1.0	5.1	26	<0.1	0.2	0.1	105	0.74	0.101
1289964	Soil	2.1	25.8	11.3	51	<0.1	17.3	11.8	640	3.08	7.5	1.0	0.9	4.4	11	<0.1	0.3	0.2	40	0.31	0.040
1289974	Soil	3.2	12.2	8.1	64	<0.1	25.7	18.4	626	4.25	7.1	1.3	1.6	8.3	13	<0.1	0.5	0.2	95	0.20	0.035
1294037	Soil	0.9	34.2	14.5	65	0.1	52.5	20.7	457	3.81	7.5	1.7	19.2	8.7	34	0.1	0.8	0.2	85	1.02	0.074
1294031	Soil	0.8	30.0	10.4	61	<0.1	25.3	11.2	486	2.94	22.8	0.8	2.8	4.0	12	0.1	0.8	0.2	52	0.22	0.022
1294056	Soil	0.8	24.0	9.0	54	<0.1	33.2	13.5	441	2.81	4.9	1.3	8.9	7.4	22	0.1	0.4	0.2	73	0.48	0.070
1294053	Soil	1.1	24.2	7.9	47	<0.1	34.6	15.0	486	2.87	5.6	1.9	2.8	14.2	19	<0.1	0.6	0.2	75	0.42	0.046
1294035	Soil	0.5	28.0	8.0	59	<0.1	35.0	13.8	502	2.69	9.5	1.0	4.1	3.6	53	0.1	0.6	<0.1	52	1.67	0.069
1294033	Soil	0.3	26.5	9.9	58	<0.1	36.2	16.8	648	2.90	7.7	0.8	5.0	3.5	52	0.1	0.5	0.1	51	1.58	0.053
1294055	Soil	0.7	19.9	9.4	62	<0.1	34.9	13.8	576	2.79	5.7	1.3	7.0	7.8	21	<0.1	0.4	0.2	73	0.43	0.063
1294054	Soil	0.9	26.0	9.0	47	<0.1	28.2	13.0	292	2.76	6.3	1.9	7.7	11.0	21	<0.1	0.5	0.2	67	0.45	0.054
1294038	Soil	1.1	25.4	11.8	57	0.1	38.5	21.2	589	3.31	7.1	1.0	17.4	5.6	34	0.1	0.7	0.2	83	0.97	0.069
1294032	Soil	0.4	23.0	10.3	61	<0.1	30.5	11.7	406	2.32	6.3	0.7	3.9	3.6	59	0.2	0.4	<0.1	37	2.25	0.059
1294029	Soil	1.0	28.1	11.9	65	0.3	37.1	13.7	497	2.73	57.8	2.2	14.2	4.6	36	0.2	1.1	0.2	55	0.88	0.048
1294058	Soil	0.5	28.7	10.8	56	<0.1	28.5	12.4	311	2.73	6.5	1.9	7.6	9.1	25	0.1	0.6	0.2	70	0.43	0.049
1294036	Soil	0.5	26.2	8.8	88	<0.1	73.3	23.5	690	4.48	12.5	0.6	4.8	6.6	31	<0.1	0.7	0.1	69	0.94	0.074
1294034	Soil	0.4	33.9	70.1	76	1.0	39.2	16.2	555	3.10	8.6	0.7	761.4	4.2	45	0.6	0.7	0.1	54	1.28	0.066
1294030	Soil	0.8	26.3	20.0	70	0.2	46.5	17.1	613	4.25	320.3	1.3	58.0	12.3	21	<0.1	3.1	0.8	52	0.49	0.061
1294057	Soil	0.6	26.4	11.8	56	<0.1	33.8	12.9	274	2.82	6.3	1.5	9.4	9.3	21	0.1	0.6	0.2	72	0.41	0.050



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## CERTIFICATE OF ANALYSIS

WHI12000692.1

	Method Analyte Unit MDL	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
1294052	Soil	24	54	0.94	219	0.128	2	1.86	0.017	0.16	0.2	0.03	5.6	0.3	<0.05	6	<0.5	<0.2
1289958	Soil	13	73	2.01	515	0.200	1	2.57	0.019	0.66	0.1	0.02	5.7	0.4	<0.05	8	<0.5	<0.2
1289964	Soil	8	28	0.87	83	0.057	1	1.71	0.016	0.10	<0.1	0.01	3.7	0.2	0.06	5	<0.5	<0.2
1289974	Soil	12	116	1.68	162	0.142	1	2.79	0.009	0.27	0.1	<0.01	7.5	0.5	<0.05	11	<0.5	<0.2
1294037	Soil	28	126	1.57	300	0.111	2	2.13	0.013	0.18	0.1	0.08	6.6	0.3	0.07	7	<0.5	<0.2
1294031	Soil	8	42	1.13	140	0.063	1	2.03	0.006	0.07	0.2	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2
1294056	Soil	22	67	1.06	180	0.117	2	1.92	0.015	0.24	0.2	0.03	5.6	0.3	<0.05	6	<0.5	<0.2
1294053	Soil	26	55	0.90	212	0.115	2	1.90	0.014	0.16	0.2	0.04	5.8	0.2	<0.05	6	<0.5	<0.2
1294035	Soil	20	57	1.03	144	0.083	2	1.57	0.016	0.15	0.1	0.05	3.5	0.3	0.08	5	<0.5	<0.2
1294033	Soil	16	62	1.04	159	0.086	2	1.73	0.015	0.10	0.1	0.04	3.4	0.3	0.07	5	<0.5	<0.2
1294055	Soil	20	63	1.02	197	0.108	2	2.09	0.013	0.13	0.2	0.03	5.5	0.2	<0.05	6	<0.5	<0.2
1294054	Soil	35	46	0.73	212	0.089	2	1.93	0.014	0.10	0.2	0.04	6.1	0.2	<0.05	6	0.5	<0.2
1294038	Soil	17	70	1.31	318	0.102	2	1.93	0.013	0.13	0.1	0.04	5.8	0.2	0.06	6	<0.5	<0.2
1294032	Soil	20	52	0.81	144	0.067	2	1.25	0.012	0.14	<0.1	0.04	2.7	0.2	0.06	4	<0.5	<0.2
1294029	Soil	26	56	0.78	174	0.080	1	1.63	0.012	0.10	0.1	0.03	4.5	0.2	0.06	6	<0.5	<0.2
1294058	Soil	21	44	0.70	228	0.093	2	1.74	0.016	0.06	0.2	0.04	6.1	0.1	<0.05	5	<0.5	<0.2
1294036	Soil	17	164	2.37	184	0.178	1	2.76	0.009	0.64	0.1	0.02	3.7	0.5	<0.05	7	<0.5	<0.2
1294034	Soil	17	62	1.17	153	0.097	2	1.73	0.013	0.26	<0.1	0.04	3.6	0.3	0.05	5	<0.5	0.6
1294030	Soil	19	57	1.82	183	0.110	<1	2.42	0.009	0.35	0.1	<0.01	3.5	0.3	<0.05	7	<0.5	<0.2
1294057	Soil	21	59	0.85	183	0.106	2	1.91	0.015	0.11	0.2	0.03	6.5	0.2	<0.05	6	<0.5	<0.2



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## QUALITY CONTROL REPORT

WHI12000692.1

	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	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	0.1	2	0.01
Pulp Duplicates																					
1294492	Soil	1.4	14.2	9.3	72	0.1	16.0	27.4	2364	4.31	55.4	1.2	4.2	4.1	22	0.1	1.2	0.2	99	0.35	0.090
REP 1294492	QC	1.5	14.2	9.2	69	0.1	15.0	25.8	2334	4.11	55.6	1.2	4.0	4.2	22	<0.1	1.2	0.1	96	0.35	0.084
1294486	Soil	1.0	26.8	11.7	75	0.2	17.7	14.6	553	3.86	61.9	2.6	6.6	9.1	23	0.2	1.8	0.1	103	0.36	0.076
REP 1294486	QC	0.9	25.9	12.4	72	0.1	16.3	14.8	541	3.83	61.2	2.5	7.8	8.9	23	0.1	1.6	0.1	101	0.37	0.075
1294190	Soil	1.0	69.7	5.5	88	<0.1	39.5	39.8	1046	6.63	2.6	0.9	16.6	5.1	19	0.1	0.5	0.3	168	0.77	0.171
REP 1294190	QC	0.9	68.3	5.6	88	<0.1	39.0	39.9	1014	6.45	2.5	0.9	13.0	4.9	19	<0.1	0.5	0.3	163	0.79	0.175
1294604	Soil	0.9	18.8	7.5	48	<0.1	19.2	9.2	374	2.39	13.3	0.4	3.8	1.9	16	<0.1	0.5	0.2	63	0.23	0.034
REP 1294604	QC	1.0	19.1	7.6	49	<0.1	19.2	9.6	377	2.47	13.1	0.4	4.2	2.0	16	<0.1	0.4	0.2	64	0.23	0.035
1289377	Soil	0.9	8.4	3.3	61	<0.1	8.0	8.4	242	2.73	7.7	0.4	<0.5	1.8	14	<0.1	0.8	<0.1	37	0.30	0.016
REP 1289377	QC	0.9	8.3	3.2	60	<0.1	7.9	8.4	248	2.75	8.0	0.4	2.2	1.9	14	<0.1	0.8	<0.1	36	0.31	0.015
1289380	Soil	1.6	24.0	9.5	66	0.1	24.5	13.8	510	3.43	4.5	1.1	6.6	7.4	20	0.1	0.4	0.1	72	0.48	0.064
REP 1289380	QC	1.6	25.5	9.5	71	0.1	24.3	14.0	525	3.41	4.4	1.0	6.0	7.6	20	0.1	0.4	0.1	74	0.48	0.063
1285547	Soil	0.6	8.4	6.9	48	<0.1	10.4	7.1	196	2.09	17.4	1.1	7.9	3.2	17	<0.1	1.2	<0.1	50	0.25	0.042
REP 1285547	QC	0.5	8.1	6.8	47	<0.1	10.1	6.8	192	1.99	16.4	1.0	4.0	3.1	17	<0.1	1.2	<0.1	50	0.24	0.040
1294648	Soil	0.8	29.5	9.4	69	0.1	92.3	25.1	681	3.91	5.3	1.5	6.7	8.2	30	<0.1	0.5	<0.1	84	0.78	0.097
REP 1294648	QC	0.8	29.3	8.9	67	0.1	90.8	25.9	701	4.02	5.0	1.5	5.4	8.2	30	0.1	0.5	<0.1	84	0.78	0.101
1294642	Soil	1.1	39.1	6.9	53	<0.1	21.2	16.9	450	3.57	8.9	1.4	6.2	9.2	13	<0.1	1.0	0.3	47	0.40	0.031
REP 1294642	QC	1.0	40.2	6.7	53	<0.1	19.9	16.5	453	3.64	9.5	1.4	9.0	9.5	13	<0.1	0.9	0.3	45	0.40	0.032
1294274	Soil	1.4	24.9	10.9	70	<0.1	24.9	20.6	2205	3.33	10.8	0.9	32.7	2.8	22	0.2	2.0	0.1	79	0.35	0.053
REP 1294274	QC	1.2	24.5	11.2	71	0.1	25.3	20.6	2143	3.47	10.0	0.8	0.9	2.6	23	0.1	2.4	0.1	80	0.35	0.054
1294504	Soil	0.6	17.9	11.3	71	0.2	17.6	11.7	276	2.72	33.6	1.3	17.4	6.3	23	0.2	1.3	0.1	82	0.43	0.069
REP 1294504	QC	0.6	17.8	11.1	71	0.2	17.3	10.8	264	2.55	31.7	1.3	8.9	5.9	22	0.2	1.3	0.1	74	0.38	0.065
1294502	Soil	0.6	12.5	11.5	84	0.2	16.0	9.9	262	2.91	123.7	1.1	13.1	5.8	21	0.1	1.7	0.1	87	0.39	0.064
REP 1294502	QC	0.5	12.6	11.2	80	0.2	15.5	9.5	259	2.83	117.0	1.0	8.9	5.7	21	<0.1	1.6	0.1	85	0.38	0.063
1289832	Soil	1.0	18.2	13.1	65	<0.1	20.6	14.1	639	3.55	5.8	1.1	7.6	8.2	25	0.1	0.6	0.2	61	0.63	0.024
REP 1289832	QC	0.9	19.4	13.8	69	<0.1	21.6	14.7	636	3.61	5.9	1.1	3.2	8.6	26	<0.1	0.6	0.2	60	0.65	0.023
1289838	Soil	0.9	48.0	19.3	118	0.1	30.2	15.7	767	3.25	3.4	2.3	3.7	10.4	45	0.3	0.6	0.2	62	1.69	0.060
REP 1289838	QC	0.9	50.2	18.0	122	0.1	32.0	16.3	772	3.31	3.6	2.3	1.9	10.9	46	0.3	0.5	0.1	63	1.63	0.064





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Project: **SUG**

Report Date: **August 25, 2012**

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## QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	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	Ti	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
Pulp Duplicates																		
1294492	Soil	11	32	0.78	254	0.129	2	1.91	0.014	0.06	0.2	0.02	4.1	0.2	<0.05	7	<0.5	<0.2
REP 1294492	QC	11	31	0.76	247	0.126	2	1.85	0.014	0.06	0.2	0.03	4.1	0.2	<0.05	7	<0.5	<0.2
1294486	Soil	17	33	0.81	477	0.192	1	2.36	0.019	0.19	0.2	0.03	5.2	0.3	<0.05	8	<0.5	<0.2
REP 1294486	QC	17	33	0.80	457	0.188	2	2.35	0.018	0.18	0.2	0.02	4.9	0.4	<0.05	7	<0.5	<0.2
1294190	Soil	19	67	2.64	418	0.138	1	3.11	0.011	0.78	<0.1	0.03	16.5	0.4	<0.05	11	<0.5	0.3
REP 1294190	QC	18	65	2.59	405	0.131	<1	3.00	0.011	0.76	0.1	0.03	16.2	0.4	<0.05	11	<0.5	0.5
1294604	Soil	9	34	0.53	159	0.067	1	1.60	0.013	0.06	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 1294604	QC	9	35	0.53	157	0.069	1	1.59	0.014	0.06	0.1	0.04	3.7	0.1	<0.05	6	<0.5	<0.2
1289377	Soil	3	10	0.65	171	0.099	<1	2.00	0.006	0.15	<0.1	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
REP 1289377	QC	3	10	0.61	170	0.096	<1	1.94	0.006	0.16	0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
1289380	Soil	25	49	1.50	198	0.151	2	2.05	0.015	0.35	<0.1	0.02	5.2	0.4	<0.05	7	<0.5	<0.2
REP 1289380	QC	26	50	1.47	209	0.147	1	2.04	0.015	0.33	0.1	0.02	5.3	0.4	<0.05	8	<0.5	<0.2
1285547	Soil	9	22	0.55	195	0.127	2	1.47	0.015	0.07	0.2	0.05	2.8	0.2	<0.05	6	<0.5	<0.2
REP 1285547	QC	9	22	0.54	184	0.127	2	1.33	0.015	0.06	0.2	0.05	2.8	0.2	<0.05	6	<0.5	<0.2
1294648	Soil	26	258	2.58	386	0.167	2	2.86	0.013	0.53	0.1	0.05	6.9	0.5	<0.05	8	<0.5	<0.2
REP 1294648	QC	26	255	2.55	380	0.170	2	2.87	0.013	0.52	0.1	0.05	7.0	0.4	<0.05	8	0.7	<0.2
1294642	Soil	33	32	1.09	126	0.038	<1	1.87	0.007	0.10	0.2	0.02	7.1	0.2	<0.05	5	<0.5	<0.2
REP 1294642	QC	32	31	1.06	127	0.037	<1	1.86	0.007	0.09	0.1	0.04	7.2	0.2	<0.05	5	<0.5	<0.2
1294274	Soil	12	61	0.80	195	0.066	2	1.95	0.012	0.06	0.2	0.02	5.9	0.1	<0.05	8	<0.5	<0.2
REP 1294274	QC	12	60	0.85	193	0.078	2	2.02	0.013	0.07	0.2	0.01	5.8	0.1	<0.05	7	<0.5	<0.2
1294504	Soil	12	34	0.80	236	0.155	2	1.97	0.017	0.08	0.1	0.04	4.4	0.2	<0.05	6	<0.5	<0.2
REP 1294504	QC	12	32	0.74	226	0.141	2	1.78	0.016	0.08	0.2	0.04	4.2	0.2	<0.05	6	<0.5	<0.2
1294502	Soil	10	32	0.74	222	0.132	2	1.84	0.015	0.09	0.2	0.06	4.3	0.3	<0.05	6	<0.5	<0.2
REP 1294502	QC	10	32	0.75	208	0.126	1	1.83	0.015	0.09	0.2	0.04	4.4	0.3	<0.05	6	<0.5	<0.2
1289832	Soil	12	41	0.99	168	0.084	2	1.87	0.015	0.26	0.2	0.06	5.1	0.2	<0.05	5	<0.5	<0.2
REP 1289832	QC	12	39	0.97	174	0.081	1	1.66	0.016	0.25	0.1	0.06	5.4	0.3	<0.05	6	<0.5	<0.2
1289838	Soil	56	48	1.06	557	0.095	4	1.70	0.013	0.37	0.2	0.13	6.0	0.3	<0.05	6	<0.5	<0.2
REP 1289838	QC	55	49	1.09	485	0.100	2	1.81	0.013	0.37	0.1	0.14	6.0	0.3	<0.05	5	<0.5	<0.2



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Project: **SUG**

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## QUALITY CONTROL REPORT

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		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
		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
1294635	Soil	0.9	40.1	8.3	69	0.2	22.7	13.9	370	3.38	55.1	2.9	10.5	8.6	28	0.2	2.5	0.1	91	0.55
REP 1294635	QC	0.8	40.5	8.5	73	0.2	23.3	13.5	356	3.43	55.5	2.9	10.9	8.6	30	0.2	2.8	0.1	99	0.59
1294625	Soil	1.2	21.2	9.4	74	0.2	19.3	13.4	709	2.85	16.7	3.2	3.9	7.7	25	0.2	1.0	0.1	83	0.49
REP 1294625	QC	1.2	19.8	9.1	70	0.2	18.9	12.7	654	2.68	15.5	3.0	4.4	7.5	23	0.2	0.9	0.1	75	0.47
1294031	Soil	0.8	30.0	10.4	61	<0.1	25.3	11.2	486	2.94	22.8	0.8	2.8	4.0	12	0.1	0.8	0.2	52	0.22
REP 1294031	QC	0.8	29.4	10.3	60	<0.1	25.6	11.2	479	2.95	22.1	0.8	1.1	4.0	12	<0.1	0.8	0.2	49	0.22
1294054	Soil	0.9	26.0	9.0	47	<0.1	28.2	13.0	292	2.76	6.3	1.9	7.7	11.0	21	<0.1	0.5	0.2	67	0.45
REP 1294054	QC	0.9	26.6	9.0	48	0.1	28.6	13.4	298	2.84	5.9	1.8	3.4	10.9	21	<0.1	0.5	0.1	69	0.44
Reference Materials																				
STD DS9	Standard	13.5	112.2	126.9	320	1.9	42.2	8.0	574	2.42	26.1	2.8	127.1	6.5	76	2.5	5.8	7.2	44	0.75
STD DS9	Standard	12.3	108.4	112.2	295	1.6	38.6	7.4	557	2.22	25.4	2.4	115.7	5.5	67	2.5	5.3	6.0	42	0.66
STD DS9	Standard	13.4	111.3	126.0	310	1.9	42.2	7.7	565	2.37	24.1	2.9	118.1	6.2	72	2.6	5.7	6.9	42	0.72
STD DS9	Standard	12.6	107.1	113.8	294	1.8	40.2	7.5	581	2.28	25.4	2.4	104.5	5.5	68	2.4	5.5	6.0	45	0.70
STD DS9	Standard	13.6	94.9	127.7	297	1.9	38.9	7.4	598	2.32	25.7	2.6	131.7	6.1	64	2.3	5.5	5.5	41	0.68
STD DS9	Standard	13.8	94.1	115.6	292	2.0	40.5	7.7	590	2.39	25.0	2.7	109.3	6.0	65	2.4	5.0	5.3	40	0.68
STD DS9	Standard	13.4	105.4	119.4	298	1.7	38.3	7.4	531	2.21	24.0	2.6	117.9	6.1	71	2.2	5.7	6.5	38	0.68
STD DS9	Standard	13.1	96.6	118.7	295	1.9	40.6	7.6	583	2.38	24.7	2.8	119.8	6.3	64	2.2	5.2	5.2	39	0.71
STD DS9	Standard	12.7	109.1	115.2	305	1.8	40.0	7.4	560	2.24	25.4	2.4	99.5	5.8	65	2.2	5.5	6.1	44	0.68
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank	<0.1	0.3	<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
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	3	<0.01
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
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
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
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
BLK	Blank	<0.1	0.2	<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
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	2	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01



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**Project:** SUG  
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## QUALITY CONTROL REPORT

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		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1294635	Soil	19	41	0.81	327	0.130	2	2.00	0.021	0.13	0.1	0.04	8.3	0.2	<0.05	6	<0.5	<0.2
REP 1294635	QC	20	42	0.82	338	0.152	1	2.00	0.020	0.14	0.2	0.03	8.7	0.2	<0.05	6	<0.5	<0.2
1294625	Soil	15	39	0.76	281	0.115	1	1.98	0.016	0.08	0.2	0.04	6.0	0.2	<0.05	7	<0.5	<0.2
REP 1294625	QC	14	37	0.73	269	0.104	2	1.92	0.015	0.08	0.2	0.04	5.6	0.2	<0.05	6	<0.5	<0.2
1294031	Soil	8	42	1.13	140	0.063	1	2.03	0.006	0.07	0.2	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2
REP 1294031	QC	8	42	1.13	133	0.061	<1	2.02	0.006	0.07	0.2	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2
1294054	Soil	35	46	0.73	212	0.089	2	1.93	0.014	0.10	0.2	0.04	6.1	0.2	<0.05	6	0.5	<0.2
REP 1294054	QC	34	47	0.72	213	0.092	2	1.93	0.014	0.10	0.2	0.05	6.3	0.2	0.06	6	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	14	126	0.66	314	0.119	2	0.94	0.094	0.38	3.4	0.23	2.7	5.6	0.18	5	4.7	5.4
STD DS9	Standard	12	117	0.60	306	0.099	2	0.89	0.087	0.35	2.7	0.17	2.8	5.0	0.18	5	5.4	5.0
STD DS9	Standard	13	123	0.66	302	0.112	3	0.93	0.106	0.38	3.0	0.19	3.2	5.7	0.18	5	5.2	5.5
STD DS9	Standard	12	122	0.61	295	0.103	3	0.92	0.091	0.37	2.7	0.21	2.9	5.3	0.16	4	4.7	4.8
STD DS9	Standard	12	122	0.59	328	0.101	4	0.90	0.086	0.39	3.2	0.21	2.4	5.7	0.06	4	5.3	5.0
STD DS9	Standard	11	118	0.59	294	0.103	2	0.91	0.090	0.35	3.2	0.20	2.2	5.5	0.07	4	5.3	5.8
STD DS9	Standard	13	114	0.61	289	0.103	3	0.87	0.092	0.35	3.0	0.19	2.6	5.6	0.12	5	4.9	5.8
STD DS9	Standard	12	120	0.62	308	0.106	4	0.93	0.089	0.36	3.3	0.21	2.3	5.6	0.06	5	5.7	5.3
STD DS9	Standard	12	120	0.59	299	0.101	3	0.87	0.096	0.36	2.7	0.22	2.6	5.3	0.20	5	5.1	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
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	<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