



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Vancouver
Received: August 27, 2009
Report Date: September 11, 2009
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN09003890.1

CLIENT JOB INFORMATION

Project: WHITE
Shipment ID: UW09-06
P.O. Number
Number of Samples: 106

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: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2
Canada

CC: Adrian Fleming
Rob McLeod

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	106	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	106	Dry at 60C			VAN
1DX15	106	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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CERTIFICATE OF ANALYSIS

VAN09003890.1

	Method	Analyte	Unit	MDL	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
MH-145	Soil																							
MH-146	Soil																							
MH-147	Soil																							
MH-148	Soil																							
MH-149	Soil																							
MH-150	Soil																							
MH-151	Soil																							
MH-152	Soil																							
MH-153	Soil																							
MH-154	Soil																							
MH-155	Soil																							
MH-156	Soil																							
MH-157	Soil																							
MH-158	Soil																							
MH-159	Soil																							
MH-160	Soil																							
MH-161	Soil																							
MH-162	Soil																							
MH-163	Soil																							
MH-164	Soil																							
MH-165	Soil																							
MH-166	Soil																							
MH-167	Soil																							
MH-168	Soil																							
MH-169	Soil																							
MH-170	Soil																							
MH-171	Soil																							
MH-172	Soil																							
MH-173	Soil																							
MH-174	Soil																							



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	Method Analyte Unit MDL	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
		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
MH-145	Soil	13	49	0.65	506	0.108	1	2.03	0.008	0.46	0.1	0.02	5.2	0.2	<0.05	7
MH-146	Soil	13	68	0.86	678	0.089	2	2.16	0.012	0.29	<0.1	0.01	4.3	0.1	<0.05	7
MH-147	Soil	12	162	1.38	951	0.147	<1	2.60	0.015	0.58	<0.1	0.01	6.0	0.2	<0.05	8
MH-148	Soil	10	36	0.50	440	0.059	1	1.93	0.010	0.11	0.2	0.01	2.9	<0.1	<0.05	6
MH-149	Soil	10	58	0.69	378	0.071	<1	1.74	0.015	0.14	0.1	0.01	4.6	<0.1	<0.05	6
MH-150	Soil	11	43	0.55	282	0.064	1	1.71	0.012	0.07	0.1	0.02	4.5	<0.1	<0.05	5
MH-151	Soil	16	62	0.71	369	0.065	1	2.38	0.009	0.21	0.1	0.02	4.7	<0.1	<0.05	8
MH-152	Soil	7	96	1.03	706	0.162	1	2.22	0.012	0.50	0.1	<0.01	4.0	0.3	<0.05	7
MH-153	Soil	21	44	0.78	189	0.110	<1	2.11	0.007	0.65	<0.1	<0.01	4.0	0.4	<0.05	7
MH-154	Soil	11	110	1.07	922	0.135	1	1.84	0.018	0.55	0.1	0.01	4.8	0.2	<0.05	7
MH-155	Soil	13	70	0.71	504	0.060	1	1.90	0.010	0.12	<0.1	0.02	4.2	0.1	<0.05	6
MH-156	Soil	18	163	1.72	1409	0.181	2	2.98	0.012	1.13	<0.1	<0.01	7.8	0.3	<0.05	12
MH-157	Soil	13	38	0.48	327	0.065	<1	1.90	0.013	0.10	0.1	<0.01	4.7	<0.1	<0.05	6
MH-158	Soil	17	70	0.91	641	0.103	1	2.16	0.015	0.20	0.2	0.03	7.1	0.2	<0.05	7
MH-159	Soil	12	41	0.54	265	0.061	1	2.38	0.011	0.05	0.1	0.04	3.7	0.1	<0.05	6
MH-160	Soil	11	37	0.40	330	0.054	1	2.27	0.011	0.05	0.1	0.02	3.5	0.1	<0.05	7
MH-161	Soil	11	36	0.40	329	0.057	<1	2.21	0.012	0.05	0.1	0.02	3.3	0.1	<0.05	7
MH-162	Soil	15	35	0.50	184	0.061	2	1.89	0.011	0.05	0.2	0.02	4.4	<0.1	<0.05	5
MH-163	Soil	12	48	0.50	214	0.062	1	2.56	0.015	0.07	0.2	0.05	3.7	0.2	<0.05	6
MH-164	Soil	13	45	0.59	357	0.073	1	1.53	0.012	0.09	0.1	0.02	5.0	0.1	<0.05	5
MH-165	Soil	14	70	0.56	264	0.042	<1	1.69	0.009	0.08	<0.1	0.03	7.3	0.1	<0.05	5
MH-166	Soil	13	44	0.58	194	0.061	<1	1.62	0.011	0.06	0.1	0.04	3.6	0.1	<0.05	5
MH-167	Soil	13	40	0.51	278	0.061	1	2.11	0.016	0.05	0.2	0.03	4.8	0.1	<0.05	6
MH-168	Soil	14	91	0.74	292	0.080	<1	2.39	0.019	0.08	0.1	0.02	4.2	<0.1	<0.05	6
MH-169	Soil	11	812	3.55	566	0.122	<1	2.46	0.010	0.44	<0.1	<0.01	8.9	0.3	<0.05	8
MH-170	Soil	12	90	0.74	305	0.050	1	2.44	0.015	0.07	<0.1	0.02	8.7	<0.1	<0.05	6
MH-171	Soil	15	47	0.51	257	0.071	<1	2.59	0.011	0.06	0.2	0.03	5.0	0.1	<0.05	7
MH-172	Soil	13	60	0.69	381	0.076	1	1.86	0.013	0.05	0.1	0.03	4.0	0.1	<0.05	6
MH-173	Soil	12	77	0.73	240	0.108	1	2.53	0.016	0.05	0.2	0.02	5.0	0.1	<0.05	6
MH-174	Soil	14	57	0.75	270	0.089	1	2.04	0.012	0.08	0.1	0.02	4.1	0.1	<0.05	6



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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
MH-175	Soil	1.1	12.7	10.3	57	0.2	17.7	11.2	611	2.69	7.7	0.4	0.9	2.7	14	0.2	0.6	0.2	69	0.17	0.034	
MH-176	Soil	1.0	22.2	9.8	54	<0.1	32.9	12.2	237	2.98	11.4	0.6	<0.5	4.3	13	<0.1	0.6	0.2	57	0.13	0.026	
MH-177	Soil	0.9	20.2	8.7	92	0.2	21.2	16.7	335	3.14	7.5	0.3	<0.5	2.0	11	0.3	0.6	0.2	75	0.15	0.047	
MH-178	Soil	0.9	25.9	9.2	40	0.1	19.9	9.3	240	2.67	7.6	0.8	0.8	3.3	15	<0.1	0.6	0.2	62	0.15	0.022	
MH-179	Soil	1.4	17.7	9.6	38	<0.1	24.0	8.8	241	2.85	9.3	0.4	2.1	2.3	10	<0.1	0.5	0.2	72	0.13	0.043	
MH-180	Soil	0.7	38.6	8.4	44	<0.1	33.2	10.2	215	2.52	9.1	0.6	1.3	2.9	13	<0.1	0.6	0.1	54	0.16	0.031	
MH-181	Soil	0.8	40.3	7.9	41	<0.1	33.5	9.4	181	2.32	9.2	0.6	1.6	2.2	11	<0.1	0.5	0.2	57	0.13	0.028	
MH-182	Soil	0.8	36.5	8.0	47	<0.1	30.9	10.5	220	2.48	9.7	0.8	1.1	3.3	15	<0.1	0.5	0.1	61	0.17	0.026	
MC-142	Soil	1.0	26.2	10.1	47	<0.1	26.4	10.7	297	3.15	7.2	1.1	2.2	10.5	14	<0.1	0.5	0.2	65	0.18	0.015	
MC-143	Soil	1.5	25.7	7.9	57	<0.1	20.0	11.9	326	3.14	6.5	0.7	3.1	5.6	19	<0.1	0.2	<0.1	74	0.28	0.027	
MC-144	Soil	1.0	15.6	8.6	47	<0.1	20.4	10.4	266	2.87	8.5	0.4	<0.5	3.5	14	<0.1	0.4	0.1	71	0.15	0.020	
MC-145	Soil	1.0	46.3	8.8	62	0.1	46.5	16.6	677	3.27	10.8	0.5	<0.5	3.3	12	0.1	0.5	0.2	71	0.14	0.028	
MC-146	Soil	1.1	29.7	6.9	73	<0.1	24.8	13.3	1573	3.25	6.3	0.3	1.5	2.3	16	0.2	0.3	<0.1	81	0.19	0.026	
MC-147	Soil	0.7	24.3	4.3	71	<0.1	22.4	13.4	628	4.19	5.6	1.0	<0.5	9.4	14	<0.1	0.3	<0.1	93	0.24	0.042	
MC-148	Soil	0.3	19.6	9.7	84	<0.1	18.8	12.8	572	3.78	2.1	1.2	1.5	7.7	13	<0.1	0.1	0.2	82	0.61	0.090	
MC-149	Soil	1.8	49.3	16.4	61	<0.1	22.1	9.4	354	3.49	8.6	1.1	<0.5	3.1	21	0.2	0.3	0.3	69	0.19	0.046	
MC-150	Soil	0.9	10.1	8.5	36	<0.1	8.8	5.5	155	2.47	7.1	0.6	2.0	3.2	12	<0.1	0.3	0.1	72	0.14	0.022	
MC-151	Soil	0.9	13.1	13.6	48	0.1	18.5	10.1	202	3.02	10.4	0.4	<0.5	2.7	13	<0.1	0.5	0.1	67	0.14	0.044	
MC-152	Soil	0.8	21.0	8.4	53	<0.1	24.3	12.3	267	3.02	10.0	0.5	2.5	4.1	10	<0.1	0.5	0.1	69	0.13	0.026	
MC-153	Soil	0.9	18.4	8.2	57	0.1	16.0	11.3	222	2.93	8.0	0.3	<0.5	2.4	10	<0.1	0.5	0.1	81	0.12	0.027	
MC-154	Soil	1.0	17.1	7.6	153	0.1	12.6	16.6	3427	2.75	3.4	0.2	1.4	1.4	22	0.5	0.4	0.1	72	0.30	0.128	
MC-155	Soil	0.9	11.0	7.7	101	<0.1	16.9	16.1	867	2.89	5.0	0.3	8.8	2.9	14	<0.1	0.4	0.1	75	0.17	0.032	
MC-156	Soil	0.9	12.0	7.2	73	<0.1	13.1	10.7	436	3.21	5.8	0.4	1.4	2.4	16	<0.1	0.4	0.1	87	0.20	0.043	
MC-157	Soil	0.5	31.3	19.3	51	<0.1	23.4	9.8	296	2.90	7.3	1.1	1.9	8.2	19	<0.1	0.4	0.2	55	0.25	0.032	
MC-158	Soil	0.9	13.2	8.5	48	<0.1	20.5	9.7	222	2.73	8.6	0.4	<0.5	2.9	16	<0.1	0.4	0.1	61	0.19	0.027	
MC-159	Soil	0.5	45.7	3.6	94	<0.1	31.8	22.8	660	4.66	3.7	2.5	<0.5	15.1	19	<0.1	0.2	<0.1	100	0.36	0.126	
MC-160	Soil	0.9	11.2	7.5	46	<0.1	15.4	10.2	186	2.53	6.4	0.3	<0.5	2.4	13	<0.1	0.4	0.1	66	0.14	0.017	
MC-161	Soil	1.0	10.5	7.7	48	<0.1	14.8	10.1	190	2.51	6.3	0.3	<0.5	2.3	14	<0.1	0.4	0.1	67	0.14	0.019	
MC-162	Soil	3.6	104.6	22.1	204	<0.1	54.5	14.0	536	4.56	4.5	1.5	6.0	13.9	26	0.7	0.4	0.1	105	0.47	0.099	
MC-163	Soil	1.8	50.7	7.3	75	<0.1	55.6	17.2	386	4.26	5.5	1.2	4.1	3.8	21	0.1	0.3	0.1	101	0.53	0.116	



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		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
MH-175	Soil	11	32	0.41	264	0.053	<1	1.89	0.012	0.04	0.1	0.01	2.4	0.1	<0.05	7	<0.5
MH-176	Soil	12	42	0.56	183	0.068	2	2.08	0.019	0.06	0.1	0.04	3.1	0.1	<0.05	5	<0.5
MH-177	Soil	9	33	0.44	245	0.068	<1	2.23	0.012	0.03	0.1	0.02	2.9	0.1	<0.05	7	<0.5
MH-178	Soil	12	39	0.48	187	0.067	<1	2.07	0.016	0.04	0.1	0.01	3.3	0.2	<0.05	6	<0.5
MH-179	Soil	9	38	0.42	223	0.058	<1	1.80	0.009	0.04	0.1	<0.01	2.3	0.1	<0.05	7	<0.5
MH-180	Soil	11	37	0.50	178	0.057	<1	1.95	0.011	0.03	0.1	0.02	2.9	<0.1	<0.05	5	<0.5
MH-181	Soil	9	37	0.34	161	0.052	<1	1.61	0.006	0.03	0.1	0.02	2.5	<0.1	<0.05	5	0.9
MH-182	Soil	15	44	0.40	185	0.050	2	1.61	0.006	0.03	0.1	0.02	2.6	0.1	<0.05	5	0.5
MC-142	Soil	41	47	0.47	263	0.083	<1	1.93	0.007	0.09	<0.1	0.03	5.5	0.1	<0.05	6	1.0
MC-143	Soil	15	28	0.51	308	0.065	<1	1.66	0.008	0.09	<0.1	0.03	4.3	<0.1	<0.05	5	0.7
MC-144	Soil	8	35	0.44	308	0.067	<1	1.92	0.006	0.07	0.2	0.02	2.4	<0.1	<0.05	5	<0.5
MC-145	Soil	6	46	0.60	233	0.070	<1	2.15	0.005	0.13	0.1	0.02	2.8	0.1	<0.05	7	0.7
MC-146	Soil	6	26	0.59	346	0.096	<1	2.06	0.006	0.11	0.1	0.02	2.3	0.1	<0.05	7	0.7
MC-147	Soil	12	57	1.33	204	0.149	<1	2.71	0.006	0.46	0.1	0.01	4.3	0.3	<0.05	10	0.7
MC-148	Soil	18	30	0.58	399	0.029	<1	1.97	0.006	0.63	<0.1	0.04	10.0	0.2	<0.05	6	0.5
MC-149	Soil	14	30	0.38	264	0.079	1	1.52	0.007	0.19	0.1	0.03	2.4	0.2	<0.05	6	0.7
MC-150	Soil	12	21	0.29	177	0.063	<1	1.47	0.006	0.06	0.1	0.02	2.5	<0.1	<0.05	6	<0.5
MC-151	Soil	8	29	0.36	218	0.051	<1	1.83	0.006	0.06	0.1	0.02	2.4	<0.1	<0.05	5	0.6
MC-152	Soil	8	50	0.48	175	0.068	<1	2.34	0.009	0.10	0.1	0.03	2.9	<0.1	<0.05	4	<0.5
MC-153	Soil	6	28	0.43	204	0.085	<1	1.94	0.007	0.09	0.1	0.01	1.9	<0.1	<0.05	6	<0.5
MC-154	Soil	6	22	0.35	509	0.060	1	1.56	0.009	0.07	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5
MC-155	Soil	6	25	0.37	271	0.089	<1	2.05	0.008	0.08	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
MC-156	Soil	8	24	0.53	308	0.084	<1	1.80	0.007	0.18	0.1	0.01	3.1	0.1	<0.05	6	0.5
MC-157	Soil	20	32	0.43	285	0.079	<1	1.42	0.009	0.15	0.1	0.03	4.2	0.1	<0.05	4	0.9
MC-158	Soil	8	37	0.44	176	0.080	<1	1.60	0.006	0.12	0.2	0.01	1.8	<0.1	<0.05	5	<0.5
MC-159	Soil	30	78	1.21	215	0.201	<1	2.82	0.009	0.93	<0.1	<0.01	7.3	0.6	<0.05	12	0.5
MC-160	Soil	8	28	0.30	219	0.054	<1	1.47	0.005	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5
MC-161	Soil	8	28	0.32	206	0.062	<1	1.51	0.006	0.05	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
MC-162	Soil	37	70	1.07	352	0.106	<1	2.09	0.009	0.41	<0.1	0.02	6.4	0.2	<0.05	8	1.6
MC-163	Soil	18	84	1.28	399	0.147	1	2.14	0.008	0.32	0.1	0.02	6.3	0.2	<0.05	8	0.5



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CERTIFICATE OF ANALYSIS

VAN09003890.1

		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
MC-164	Soil	1.3	89.1	3.9	86	<0.1	180.3	27.1	439	4.22	3.4	0.7	2.3	2.7	21	0.1	0.2	<0.1	161	0.64	0.156	
MC-165	Soil	0.7	46.9	6.9	66	<0.1	41.3	11.1	327	2.62	7.2	0.7	0.8	3.6	30	0.3	0.6	<0.1	64	0.55	0.080	
MC-166	Soil	0.6	36.9	7.6	51	<0.1	31.4	12.0	356	2.55	8.0	1.2	1.7	3.5	24	0.1	0.5	0.1	61	0.46	0.057	
MC-167	Soil	1.3	25.3	9.5	48	0.1	24.5	10.4	287	3.07	10.0	0.4	0.7	2.2	13	<0.1	0.6	0.1	73	0.18	0.028	
MC-168	Soil	2.2	104.6	8.3	90	0.1	52.1	23.3	834	4.13	8.7	0.9	<0.5	2.3	16	0.3	0.6	0.1	90	0.20	0.093	
MC-169	Soil	1.1	33.4	8.0	49	<0.1	25.0	9.1	211	2.58	9.3	0.6	<0.5	2.1	12	0.1	0.5	0.1	65	0.16	0.047	
MC-170	Soil	1.3	21.8	10.2	42	<0.1	17.9	7.6	229	3.07	15.5	0.5	<0.5	2.2	9	<0.1	0.4	0.2	83	0.11	0.032	
MC-171	Soil	2.1	67.2	9.1	70	0.3	109.9	26.6	608	4.79	5.1	0.7	<0.5	2.4	12	0.2	0.4	0.1	126	0.13	0.038	
MC-172	Soil	0.9	42.9	6.4	53	<0.1	52.7	15.7	482	3.49	7.0	0.4	<0.5	1.7	10	0.1	0.4	<0.1	87	0.19	0.063	
MC-173	Soil	1.4	51.7	7.1	55	0.1	44.9	13.9	304	3.70	7.7	0.4	<0.5	2.4	9	0.1	0.5	0.1	88	0.14	0.037	
MC-174	Soil	0.8	54.2	6.9	71	<0.1	49.0	17.9	590	3.36	6.2	0.6	<0.5	3.1	14	<0.1	0.3	<0.1	84	0.25	0.074	
MC-175	Soil	1.0	35.6	6.8	41	<0.1	45.1	10.5	222	2.97	6.0	0.3	1.0	1.2	8	<0.1	0.3	0.1	92	0.19	0.058	
MC-176	Soil	1.4	23.6	10.8	46	0.1	22.1	10.2	248	2.86	10.2	0.9	1.3	3.8	10	<0.1	0.6	0.2	64	0.10	0.023	
MC-177	Soil	1.4	25.8	9.5	50	0.5	24.5	8.1	309	2.60	14.2	1.0	2.4	3.0	11	<0.1	0.6	0.2	53	0.12	0.058	
MC-178	Soil	0.8	25.6	9.2	51	<0.1	26.1	8.7	227	3.18	8.9	0.7	6.5	2.4	9	0.2	0.5	0.2	69	0.11	0.031	
MC-179	Soil	1.4	48.7	7.1	57	<0.1	45.7	12.3	396	3.58	6.1	0.5	<0.5	2.2	14	0.1	0.3	0.2	89	0.19	0.044	
MC-180	Soil	0.7	27.5	6.4	38	<0.1	18.1	5.8	151	1.85	4.8	0.7	3.8	0.3	12	0.1	0.4	0.1	42	0.18	0.064	
MC-181	Soil	0.6	27.9	7.2	42	<0.1	20.8	6.7	201	1.98	5.3	0.7	1.9	0.5	15	<0.1	0.4	0.1	43	0.22	0.063	
MC-182	Soil	1.0	29.6	9.4	60	<0.1	26.2	11.6	330	3.03	9.6	0.7	1.1	3.8	10	0.2	0.6	0.1	68	0.10	0.030	
MC-183	Soil	0.6	33.4	8.5	60	<0.1	27.1	10.3	336	2.81	9.1	0.7	1.8	2.6	18	<0.1	0.5	0.1	61	0.22	0.033	
DC-101	Soil	0.7	12.3	7.5	43	<0.1	16.9	7.5	187	2.21	5.8	0.4	3.8	3.0	10	<0.1	0.4	0.1	49	0.13	0.019	
DC-102	Soil	0.6	10.1	6.4	53	<0.1	19.8	14.3	372	3.45	5.0	0.6	1.1	3.5	10	<0.1	0.3	<0.1	72	0.16	0.016	
DC-103	Soil	0.8	11.5	8.9	38	<0.1	15.1	6.5	234	2.27	7.1	0.6	<0.5	3.9	14	<0.1	0.4	0.1	55	0.18	0.031	
DC-104	Soil	0.7	8.7	9.0	51	<0.1	16.6	10.1	208	2.74	4.9	0.5	<0.5	2.8	9	<0.1	0.4	0.1	63	0.11	0.045	
DC-105	Soil	0.9	14.1	8.7	49	<0.1	18.9	8.4	248	2.57	9.5	0.6	1.5	4.4	13	<0.1	0.6	0.1	48	0.17	0.019	
DC-106	Soil	0.7	16.0	8.1	51	<0.1	19.3	10.5	252	2.97	7.2	0.8	<0.5	5.7	9	<0.1	0.5	0.1	64	0.12	0.016	
DC-107	Soil	0.4	18.4	6.7	60	<0.1	24.4	12.2	437	3.43	2.4	1.7	<0.5	10.6	8	<0.1	0.2	<0.1	57	0.12	0.013	
DC-108	Soil	0.4	16.2	8.0	47	<0.1	31.6	13.1	271	2.99	2.8	1.4	<0.5	8.8	11	<0.1	0.4	<0.1	58	0.16	0.009	
DC-109	Soil	0.8	10.2	8.4	55	<0.1	19.1	11.7	795	2.53	5.3	0.4	<0.5	3.8	14	0.1	0.4	0.1	56	0.17	0.026	
DC-110	Soil	0.7	13.7	8.7	45	<0.1	19.6	8.8	264	2.45	7.5	0.7	4.2	9.4	13	<0.1	0.4	<0.1	42	0.16	0.014	



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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
MC-164	Soil	10	164	1.70	598	0.131	<1	2.33	0.010	0.35	<0.1	0.02	7.2	0.2	<0.05	8	0.6
MC-165	Soil	14	44	0.50	342	0.084	<1	1.37	0.015	0.08	0.2	0.04	3.8	<0.1	<0.05	4	0.7
MC-166	Soil	13	39	0.42	300	0.081	<1	1.43	0.012	0.06	0.2	0.02	3.7	<0.1	<0.05	4	<0.5
MC-167	Soil	9	35	0.35	182	0.064	<1	1.72	0.007	0.05	0.1	0.03	2.5	<0.1	<0.05	6	<0.5
MC-168	Soil	17	40	0.43	174	0.041	<1	2.03	0.008	0.07	0.1	0.03	3.1	<0.1	0.06	7	0.9
MC-169	Soil	10	34	0.36	133	0.066	<1	1.38	0.006	0.07	0.2	0.01	2.4	<0.1	<0.05	5	<0.5
MC-170	Soil	9	33	0.27	161	0.054	1	1.54	0.006	0.03	0.2	0.02	2.4	<0.1	<0.05	7	<0.5
MC-171	Soil	9	121	1.05	270	0.135	<1	2.59	0.006	0.16	<0.1	0.04	5.2	<0.1	<0.05	10	0.7
MC-172	Soil	7	81	0.85	231	0.138	<1	2.21	0.007	0.34	0.2	0.02	2.5	0.1	<0.05	7	<0.5
MC-173	Soil	8	53	0.47	149	0.132	<1	1.83	0.007	0.15	0.1	0.03	2.4	<0.1	<0.05	8	0.7
MC-174	Soil	13	69	1.03	259	0.134	<1	2.08	0.009	0.29	0.1	0.02	3.7	0.2	<0.05	7	0.8
MC-175	Soil	6	81	0.82	111	0.141	<1	1.65	0.008	0.11	0.1	0.02	1.9	<0.1	<0.05	8	<0.5
MC-176	Soil	11	35	0.37	240	0.049	<1	2.02	0.006	0.04	0.1	0.04	3.6	0.1	0.08	5	<0.5
MC-177	Soil	14	28	0.33	243	0.033	<1	1.54	0.006	0.03	0.2	0.08	3.5	<0.1	<0.05	4	0.9
MC-178	Soil	9	43	0.44	154	0.071	<1	1.79	0.005	0.11	0.1	0.02	2.4	0.1	<0.05	6	<0.5
MC-179	Soil	8	73	0.97	256	0.133	<1	2.29	0.007	0.19	0.2	0.02	2.8	0.1	<0.05	8	<0.5
MC-180	Soil	9	25	0.32	153	0.039	<1	1.18	0.007	0.05	0.1	0.02	1.3	<0.1	<0.05	4	0.6
MC-181	Soil	11	27	0.36	174	0.046	1	1.21	0.011	0.05	<0.1	0.04	1.7	<0.1	<0.05	4	0.6
MC-182	Soil	9	39	0.48	218	0.086	<1	2.15	0.007	0.10	0.1	0.02	3.2	0.1	<0.05	5	1.0
MC-183	Soil	15	34	0.49	317	0.070	<1	1.68	0.008	0.06	0.1	0.02	4.1	<0.1	<0.05	5	<0.5
DC-101	Soil	9	26	0.34	180	0.046	<1	1.37	0.005	0.04	0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
DC-102	Soil	7	59	1.31	180	0.197	<1	2.22	0.005	0.45	0.1	<0.01	1.5	0.4	<0.05	7	<0.5
DC-103	Soil	12	24	0.34	279	0.066	<1	1.50	0.006	0.06	0.2	0.01	2.0	0.1	<0.05	5	<0.5
DC-104	Soil	8	31	0.39	180	0.073	<1	1.58	0.006	0.07	0.1	0.01	1.4	0.1	<0.05	6	0.5
DC-105	Soil	9	29	0.31	304	0.032	<1	1.49	0.004	0.08	0.1	0.02	2.1	<0.1	<0.05	4	0.5
DC-106	Soil	8	31	0.46	164	0.135	<1	1.94	0.005	0.25	0.1	0.03	2.0	0.2	<0.05	6	<0.5
DC-107	Soil	16	61	1.36	150	0.215	<1	2.38	0.006	0.90	<0.1	<0.01	2.0	0.8	<0.05	9	<0.5
DC-108	Soil	34	67	1.18	200	0.138	<1	2.32	0.005	0.18	<0.1	<0.01	3.3	0.4	<0.05	7	0.9
DC-109	Soil	11	28	0.32	204	0.062	<1	1.58	0.006	0.08	0.1	0.02	2.0	0.1	<0.05	6	0.7
DC-110	Soil	13	39	0.46	153	0.082	<1	1.58	0.005	0.20	0.1	0.01	2.0	0.2	<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
		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
DC-111	Soil	0.8	10.4	14.9	45	0.2	19.0	8.4	256	2.96	7.2	0.8	2.2	4.8	15	0.1	0.4	0.1	58	0.19
DC-112	Soil	0.4	8.8	7.9	45	<0.1	25.9	10.4	262	2.56	4.0	1.1	<0.5	6.3	15	<0.1	0.2	<0.1	46	0.22
DC-113	Soil	0.3	10.4	6.5	37	<0.1	13.5	6.9	199	1.99	2.9	1.5	0.5	6.4	13	<0.1	0.3	<0.1	37	0.19
DC-114	Soil	0.4	12.3	6.7	27	<0.1	10.2	4.5	108	1.59	4.1	1.4	0.6	5.9	14	<0.1	0.3	<0.1	35	0.18
DC-115	Soil	0.7	28.8	9.0	47	<0.1	25.7	9.7	395	2.68	8.8	4.1	2.0	7.7	30	0.1	0.6	0.1	49	0.43
DC-116	Soil	0.8	26.5	8.2	49	<0.1	23.8	11.1	399	2.62	7.0	1.8	1.1	6.6	30	<0.1	0.6	0.1	51	0.48
DC-117	Soil	0.4	21.4	6.4	46	<0.1	18.2	7.8	277	2.15	6.8	1.1	22.8	6.0	28	<0.1	0.5	<0.1	41	0.41
DC-118	Soil	0.7	16.3	5.9	44	<0.1	15.8	8.3	194	2.32	6.0	0.8	0.7	5.0	23	<0.1	0.4	0.1	46	0.34
DC-119	Soil	0.7	15.2	6.7	48	<0.1	14.7	6.4	242	2.15	5.7	0.8	2.0	3.5	24	0.1	0.3	0.1	44	0.32
DC-120	Soil	0.6	18.5	7.2	44	<0.1	19.1	7.8	319	2.31	7.5	0.8	2.1	4.2	26	<0.1	0.5	0.1	44	0.39
DC-121	Soil	0.6	19.9	7.3	43	<0.1	19.8	8.1	326	2.34	7.8	1.0	0.5	4.4	27	<0.1	0.5	0.1	47	0.36
DC-122	Soil	0.6	16.3	7.4	50	<0.1	19.8	9.2	263	2.65	6.9	1.0	2.1	5.1	17	<0.1	0.5	0.1	52	0.22
DC-123	Soil	0.8	9.6	9.3	31	<0.1	11.5	5.5	200	2.22	6.6	0.9	<0.5	5.0	11	<0.1	0.2	0.1	54	0.12
DC-124	Soil	0.8	7.5	8.1	37	<0.1	13.8	7.1	169	2.57	6.6	0.4	<0.5	2.4	11	<0.1	0.4	0.1	60	0.11
DC-125	Soil	0.6	11.0	8.0	54	<0.1	16.0	7.1	220	2.59	7.1	0.5	1.3	3.3	12	0.1	0.4	0.1	54	0.13
DC-126	Soil	0.7	20.4	6.3	90	<0.1	11.3	5.2	378	2.14	3.1	0.8	3.4	3.2	12	0.1	0.2	0.1	37	0.15



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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
DC-111	Soil	11	33	0.47	173	0.066	<1	1.81	0.004	0.23	0.2	0.02	2.2	0.2	<0.05	6	0.8
DC-112	Soil	11	57	0.87	177	0.128	<1	1.66	0.005	0.24	0.1	0.01	1.7	0.3	<0.05	7	<0.5
DC-113	Soil	17	32	0.45	123	0.111	<1	1.25	0.006	0.24	0.1	0.01	1.6	0.2	<0.05	5	0.8
DC-114	Soil	14	19	0.25	148	0.058	<1	1.05	0.006	0.05	0.2	0.02	1.8	<0.1	<0.05	4	<0.5
DC-115	Soil	20	32	0.38	354	0.081	<1	1.68	0.012	0.07	0.1	0.03	4.3	<0.1	<0.05	5	0.7
DC-116	Soil	20	40	0.48	380	0.097	<1	1.57	0.014	0.09	0.2	0.03	3.9	<0.1	<0.05	6	0.7
DC-117	Soil	18	32	0.44	306	0.074	<1	1.20	0.013	0.11	0.1	0.03	3.0	<0.1	<0.05	4	0.8
DC-118	Soil	14	39	0.48	250	0.090	<1	1.43	0.007	0.09	0.1	0.02	2.4	0.1	<0.05	5	1.3
DC-119	Soil	14	34	0.44	263	0.081	<1	1.22	0.009	0.13	0.1	0.01	1.9	<0.1	<0.05	4	<0.5
DC-120	Soil	14	30	0.41	305	0.072	<1	1.23	0.012	0.07	0.1	0.03	3.1	<0.1	<0.05	4	<0.5
DC-121	Soil	14	31	0.42	307	0.072	<1	1.28	0.012	0.07	0.1	0.02	3.0	<0.1	<0.05	4	0.7
DC-122	Soil	16	39	0.47	273	0.078	<1	1.61	0.006	0.08	0.1	0.02	2.0	<0.1	<0.05	4	<0.5
DC-123	Soil	16	29	0.31	293	0.057	<1	1.33	0.005	0.07	0.1	<0.01	2.1	<0.1	<0.05	5	<0.5
DC-124	Soil	9	39	0.32	188	0.090	<1	1.53	0.004	0.07	0.2	0.01	1.7	<0.1	<0.05	6	<0.5
DC-125	Soil	9	28	0.32	194	0.080	<1	1.59	0.005	0.11	0.1	0.02	1.8	0.1	<0.05	6	<0.5
DC-126	Soil	8	19	0.51	124	0.136	<1	1.49	0.006	0.11	0.1	0.01	1.3	0.2	<0.05	6	<0.5



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Report Date: September 11, 2009

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QUALITY CONTROL REPORT

VAN09003890.1

	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																					
MH-153	Soil	0.8	30.9	5.4	72	<0.1	33.5	15.5	344	4.13	4.5	1.2	<0.5	18.0	19	<0.1	0.3	0.1	46	0.24	0.042
REP MH-153	QC	0.8	32.1	5.4	78	<0.1	35.1	15.8	348	4.12	4.4	1.2	<0.5	18.1	19	<0.1	0.3	<0.1	47	0.23	0.039
MH-171	Soil	1.4	25.9	11.7	51	<0.1	25.1	10.0	254	3.33	11.0	1.4	2.7	5.6	15	<0.1	0.9	0.2	71	0.14	0.027
REP MH-171	QC	1.2	22.9	10.7	46	<0.1	21.6	8.9	229	3.03	9.7	1.3	2.5	5.5	12	0.1	0.7	0.2	65	0.12	0.023
MC-143	Soil	1.5	25.7	7.9	57	<0.1	20.0	11.9	326	3.14	6.5	0.7	3.1	5.6	19	<0.1	0.2	<0.1	74	0.28	0.027
REP MC-143	QC	1.4	24.4	7.9	56	<0.1	18.8	11.8	336	3.20	6.2	0.7	2.2	5.6	20	<0.1	0.3	0.1	77	0.29	0.026
MC-171	Soil	2.1	67.2	9.1	70	0.3	109.9	26.6	608	4.79	5.1	0.7	<0.5	2.4	12	0.2	0.4	0.1	126	0.13	0.038
REP MC-171	QC	2.1	65.0	8.7	76	0.3	106.7	25.0	604	4.72	5.1	0.7	<0.5	2.2	11	0.3	0.4	0.1	128	0.12	0.036
DC-103	Soil	0.8	11.5	8.9	38	<0.1	15.1	6.5	234	2.27	7.1	0.6	<0.5	3.9	14	<0.1	0.4	0.1	55	0.18	0.031
REP DC-103	QC	0.8	12.3	8.9	35	<0.1	13.5	6.8	245	2.17	6.8	0.6	1.5	3.7	14	<0.1	0.3	0.1	53	0.18	0.029
Reference Materials																					
STD DS7	Standard	20.3	104.0	67.1	398	0.8	53.1	8.9	620	2.33	49.6	4.8	64.7	4.7	75	6.3	6.0	4.6	79	0.95	0.080
STD DS7	Standard	20.4	108.3	67.9	403	0.8	59.3	9.5	639	2.41	51.4	4.6	49.2	4.1	59	6.0	5.3	3.9	93	0.92	0.074
STD DS7	Standard	20.0	111.4	66.5	385	0.8	56.7	9.4	607	2.30	48.5	4.8	71.5	4.3	62	6.2	5.0	3.9	87	0.91	0.071
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



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Report Date: September 11, 2009

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QUALITY CONTROL REPORT

VAN09003890.1

	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
Pulp Duplicates																	
MH-153	Soil	21	44	0.78	189	0.110	<1	2.11	0.007	0.65	<0.1	<0.01	4.0	0.4	<0.05	7	<0.5
REP MH-153	QC	21	44	0.82	191	0.113	<1	2.22	0.008	0.69	<0.1	<0.01	4.1	0.4	<0.05	7	0.6
MH-171	Soil	15	47	0.51	257	0.071	<1	2.59	0.011	0.06	0.2	0.03	5.0	0.1	<0.05	7	<0.5
REP MH-171	QC	13	42	0.52	239	0.060	1	2.23	0.011	0.05	0.2	0.03	4.5	0.1	<0.05	6	0.7
MC-143	Soil	15	28	0.51	308	0.065	<1	1.66	0.008	0.09	<0.1	0.03	4.3	<0.1	<0.05	5	0.7
REP MC-143	QC	15	28	0.56	295	0.074	<1	1.68	0.008	0.09	0.1	0.03	4.1	<0.1	<0.05	5	0.7
MC-171	Soil	9	121	1.05	270	0.135	<1	2.59	0.006	0.16	<0.1	0.04	5.2	<0.1	<0.05	10	0.7
REP MC-171	QC	9	110	1.03	261	0.129	<1	2.51	0.006	0.15	0.1	0.03	5.4	0.1	<0.05	10	0.8
DC-103	Soil	12	24	0.34	279	0.066	<1	1.50	0.006	0.06	0.2	0.01	2.0	0.1	<0.05	5	<0.5
REP DC-103	QC	11	25	0.33	272	0.061	<1	1.50	0.005	0.06	0.1	0.01	1.9	<0.1	<0.05	5	0.6
Reference Materials																	
STD DS7	Standard	14	172	0.97	400	0.120	37	0.98	0.093	0.42	4.1	0.19	2.4	4.4	0.17	5	3.4
STD DS7	Standard	11	179	0.96	371	0.115	34	0.88	0.079	0.40	3.7	0.18	2.0	3.8	0.20	4	3.2
STD DS7	Standard	12	181	0.97	376	0.124	36	0.84	0.060	0.40	3.9	0.18	2.3	4.0	0.22	4	4.6
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
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
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
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