



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 28, 2009
Report Date: September 15, 2009
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN09003943.1

CLIENT JOB INFORMATION

Project: CAT
Shipment ID:
P.O. Number
Number of Samples: 129

SAMPLE DISPOSAL

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

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

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

CC: Rob McLeod
Adrian Fleming

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	129	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	129	Dry at 60C			VAN
1DX2	129	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

VAN09003943.1

	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 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
CAT 61040	Soil	0.5	101.8	6.6	67	<0.1	38.4	21.0	676	3.50	2.7	0.7	3.8	3.2	33	0.1	0.4	<0.1	96	0.70	0.139
CAT 61110	Soil	0.4	157.4	1.2	44	<0.1	32.9	19.3	358	3.41	2.5	0.4	3.0	0.8	13	<0.1	0.2	<0.1	108	0.46	0.076
CAT 61111	Soil	0.5	45.1	4.4	36	<0.1	18.2	12.2	305	1.89	4.5	0.4	<0.5	1.8	17	<0.1	0.3	<0.1	47	0.36	0.052
CAT 61112	Soil	0.7	43.5	7.6	78	<0.1	46.9	14.0	612	3.83	7.4	1.0	0.8	8.0	22	<0.1	0.4	0.1	82	0.37	0.050
CAT 61113	Soil	0.6	96.8	5.5	49	<0.1	31.4	12.4	334	2.35	8.8	0.4	3.4	2.6	36	<0.1	0.7	0.1	66	1.69	0.070
CAT 61115	Soil	0.4	214.4	2.6	80	<0.1	30.9	24.6	438	4.32	8.6	0.4	5.9	1.3	32	<0.1	0.5	<0.1	110	0.63	0.082
CAT 61116	Soil	0.6	58.7	4.9	43	0.1	29.7	9.4	305	2.03	7.4	0.7	5.2	2.1	176	0.2	0.7	0.1	55	6.89	0.085
CAT 61119	Soil	1.6	60.3	10.4	79	0.1	37.5	13.2	510	2.84	15.4	1.7	1.7	5.0	33	0.3	1.0	0.2	57	0.57	0.073
CAT 61120	Soil	1.2	37.3	9.8	78	<0.1	31.2	12.6	455	3.02	10.6	1.3	1.8	4.5	31	0.2	0.9	0.2	72	0.50	0.071
CAT 61122	Soil	0.7	30.8	6.9	55	<0.1	31.7	11.2	413	2.68	9.3	0.8	2.8	4.2	29	<0.1	0.6	0.1	62	0.51	0.062
CAT 61126	Soil	0.4	88.5	4.6	64	<0.1	32.0	18.1	485	3.32	5.4	0.4	2.9	2.1	28	<0.1	0.2	<0.1	104	0.52	0.076
CAT 61129	Soil	0.6	54.1	6.4	57	0.1	20.7	12.2	379	2.52	5.1	1.1	4.4	1.9	34	0.2	0.4	0.1	70	0.94	0.067
CAT 61130	Soil	0.6	67.7	5.8	57	<0.1	21.8	14.1	361	2.55	5.0	0.9	2.1	2.0	32	0.1	0.4	<0.1	73	0.90	0.051
CAT 61134	Soil	0.7	117.4	12.5	80	0.3	27.6	13.8	658	3.42	8.6	1.8	3.7	3.8	65	0.2	0.4	0.1	70	0.88	0.081
CAT 61135	Soil	0.3	377.8	24.6	61	0.1	26.4	15.7	583	2.41	3.7	0.4	5.7	0.8	145	0.2	1.9	<0.1	82	1.65	0.079
CAT 61140	Soil	0.6	74.4	4.3	36	<0.1	27.5	14.7	181	2.10	5.5	0.3	3.7	1.5	41	<0.1	0.3	<0.1	63	0.38	0.044
CAT 61141	Soil	0.2	228.5	1.4	77	<0.1	25.3	23.5	393	3.67	1.1	<0.1	1.4	0.3	70	<0.1	0.2	<0.1	180	0.57	0.125
CAT 61142	Soil	0.5	135.4	2.9	50	<0.1	21.0	15.3	242	2.74	3.5	0.2	1.9	0.9	45	<0.1	0.2	<0.1	97	0.42	0.039
CAT 61143	Soil	0.5	50.9	5.5	42	<0.1	22.4	10.9	241	2.39	7.4	1.0	3.7	3.5	32	<0.1	0.4	<0.1	66	0.48	0.076
CAT 61144	Soil	0.5	130.5	2.9	37	<0.1	18.2	10.7	210	2.10	4.1	0.3	2.9	1.4	17	<0.1	0.2	<0.1	74	0.39	0.075
CAT 61145	Soil	0.4	117.0	3.2	36	<0.1	31.1	11.8	274	2.02	4.9	0.6	5.4	2.4	19	<0.1	0.3	<0.1	59	0.31	0.043
CAT 61146	Soil	0.5	97.0	2.9	57	<0.1	24.3	15.8	360	2.68	2.3	0.4	2.3	1.4	20	<0.1	0.3	<0.1	91	0.37	0.052
CAT 61147	Soil	0.4	72.9	4.1	42	<0.1	30.6	11.2	254	2.20	4.4	0.9	19.3	2.4	25	0.1	0.3	<0.1	57	0.42	0.045
CAT 61148	Soil	0.3	106.2	2.9	64	<0.1	31.2	20.7	467	3.08	3.1	0.6	3.7	2.0	24	0.1	0.4	<0.1	104	0.51	0.068
CAT 61149	Soil	0.4	77.8	5.6	61	0.1	29.4	13.5	439	2.80	5.4	1.0	9.8	4.0	39	0.2	0.6	0.1	73	0.80	0.070
CAT 61150	Soil	0.2	79.6	3.3	72	<0.1	49.8	26.3	686	3.31	3.3	0.4	4.5	1.6	29	<0.1	0.3	<0.1	110	0.79	0.066
CAT 61258	Soil	0.9	49.6	17.7	86	<0.1	67.2	20.6	364	4.31	11.5	0.7	<0.5	14.3	19	<0.1	0.5	0.1	72	0.21	0.024
CAT 61259	Soil	2.2	50.3	33.7	105	<0.1	59.0	24.5	677	4.94	16.7	1.5	<0.5	16.0	28	<0.1	0.5	0.2	70	0.30	0.053
CAT 61262	Soil	1.5	28.5	24.5	69	0.1	37.3	15.5	494	3.77	7.4	0.7	1.3	5.7	21	0.1	0.5	0.3	75	0.20	0.026
CAT 61263	Soil	1.1	25.4	12.7	58	0.1	27.8	13.8	648	3.02	7.5	1.0	2.5	4.9	26	<0.1	0.4	0.2	72	0.34	0.056



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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
CAT 61040	Soil	8	67	1.81	1049	0.204	2	2.18	0.022	0.90	0.1	0.02	3.2	0.2	<0.05	6	<0.5
CAT 61110	Soil	5	71	1.36	122	0.024	3	1.79	0.027	0.03	<0.1	0.01	8.8	<0.1	<0.05	6	0.6
CAT 61111	Soil	6	31	0.44	168	0.046	1	1.21	0.015	0.07	0.1	0.01	3.4	<0.1	<0.05	3	<0.5
CAT 61112	Soil	20	94	1.27	447	0.201	2	2.36	0.013	0.67	0.2	0.01	6.8	0.3	<0.05	8	<0.5
CAT 61113	Soil	10	31	0.71	243	0.084	2	1.20	0.018	0.12	0.2	0.03	4.0	<0.1	<0.05	4	0.6
CAT 61115	Soil	6	30	2.09	273	0.220	2	2.82	0.019	0.55	<0.1	0.04	7.2	<0.1	<0.05	8	0.5
CAT 61116	Soil	9	29	0.89	560	0.064	3	0.88	0.029	0.08	0.3	0.04	2.8	<0.1	0.11	3	0.5
CAT 61119	Soil	16	40	0.71	419	0.068	2	1.48	0.017	0.12	0.2	0.05	4.0	0.1	<0.05	5	0.9
CAT 61120	Soil	14	41	0.65	350	0.071	3	1.59	0.017	0.14	0.2	0.03	4.2	<0.1	<0.05	5	0.8
CAT 61122	Soil	14	37	0.56	265	0.071	2	1.28	0.023	0.07	0.2	0.03	4.6	<0.1	<0.05	4	0.8
CAT 61126	Soil	8	57	1.11	318	0.179	1	1.66	0.019	0.55	0.1	0.01	3.8	0.2	<0.05	6	<0.5
CAT 61129	Soil	10	31	0.63	304	0.096	1	1.23	0.021	0.17	0.1	0.05	3.3	<0.1	0.06	4	0.9
CAT 61130	Soil	9	36	0.71	279	0.095	2	1.39	0.020	0.10	0.2	0.04	3.5	<0.1	<0.05	4	0.7
CAT 61134	Soil	19	43	0.85	550	0.159	2	1.50	0.023	0.39	0.2	0.04	3.9	0.2	0.07	6	0.9
CAT 61135	Soil	6	47	1.02	250	0.085	3	1.30	0.020	0.17	0.2	0.04	3.0	<0.1	0.09	4	0.8
CAT 61140	Soil	6	49	0.62	214	0.076	1	1.26	0.022	0.04	0.1	0.02	3.4	<0.1	<0.05	4	<0.5
CAT 61141	Soil	1	27	1.57	382	0.298	1	2.08	0.017	0.90	<0.1	<0.01	2.4	0.2	<0.05	7	<0.5
CAT 61142	Soil	4	35	0.97	256	0.183	2	1.71	0.015	0.22	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
CAT 61143	Soil	15	33	0.57	307	0.081	1	1.24	0.025	0.05	0.2	0.01	3.6	<0.1	<0.05	3	<0.5
CAT 61144	Soil	5	29	0.67	332	0.109	<1	1.24	0.022	0.06	0.1	0.01	2.6	<0.1	<0.05	4	<0.5
CAT 61145	Soil	15	59	0.76	499	0.117	1	1.25	0.016	0.20	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5
CAT 61146	Soil	7	49	1.34	415	0.151	<1	1.87	0.018	0.42	<0.1	0.02	5.2	0.1	<0.05	7	<0.5
CAT 61147	Soil	11	60	0.76	348	0.094	1	1.32	0.021	0.08	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5
CAT 61148	Soil	7	56	1.49	446	0.151	2	2.06	0.019	0.41	0.2	0.03	7.0	0.1	<0.05	7	<0.5
CAT 61149	Soil	16	51	0.82	450	0.100	2	1.54	0.025	0.21	0.2	0.09	5.8	<0.1	<0.05	5	0.8
CAT 61150	Soil	6	83	1.83	332	0.250	1	2.14	0.024	0.74	0.1	0.02	3.2	0.2	<0.05	6	<0.5
CAT 61258	Soil	29	86	1.32	299	0.198	<1	2.84	0.010	0.86	<0.1	<0.01	4.8	0.5	<0.05	9	0.6
CAT 61259	Soil	41	69	1.18	549	0.200	<1	2.65	0.013	0.97	0.1	0.01	5.8	0.6	<0.05	8	<0.5
CAT 61262	Soil	15	61	0.72	302	0.131	1	2.20	0.012	0.31	<0.1	0.01	3.8	0.2	<0.05	7	<0.5
CAT 61263	Soil	16	49	0.70	394	0.096	2	1.89	0.016	0.08	0.1	0.02	4.2	<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		
					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
CAT 61264	Soil				1.1	22.3	16.3	61	<0.1	29.8	11.8	455	3.20	9.9	0.5	1.3	4.3	22	<0.1	0.5	0.2	75	0.27	0.024
CAT 61269	Soil				1.5	25.2	11.3	62	<0.1	30.4	11.5	317	2.88	5.2	0.9	2.8	4.8	22	0.1	0.3	0.2	82	0.27	0.046
CAT 61272	Soil				1.3	30.3	10.3	69	<0.1	34.1	13.7	327	3.37	6.0	1.2	2.0	8.0	28	<0.1	0.3	0.1	74	0.30	0.042
CAT 61273	Soil				1.6	54.2	10.5	67	<0.1	48.4	15.8	455	3.71	5.1	1.0	1.4	8.0	26	<0.1	0.4	0.1	93	0.28	0.061
CAT 61274	Soil				0.9	29.4	9.4	60	0.1	33.4	11.4	319	3.08	4.9	1.3	2.5	8.0	23	0.1	0.3	0.1	69	0.32	0.040
CAT 61275	Soil				1.0	20.7	10.9	60	<0.1	29.3	11.2	313	2.96	4.1	1.0	<0.5	6.7	25	<0.1	0.2	0.1	68	0.31	0.036
CAT 61277	Soil				1.1	30.7	11.2	65	0.2	29.5	11.1	317	3.14	5.2	1.1	2.5	7.1	24	0.1	0.3	0.2	69	0.27	0.044
CAT 61278	Soil				1.7	34.4	16.7	71	0.2	32.5	12.9	506	3.15	5.2	1.2	20.6	7.2	43	0.1	0.3	0.2	65	0.63	0.052
CAT 61279	Soil				1.4	28.9	12.8	69	0.1	30.9	11.7	425	3.06	5.8	1.0	7.4	8.6	29	0.1	0.4	0.1	62	0.37	0.038
CAT 61280	Soil				2.1	55.2	22.7	90	0.3	41.5	13.8	510	3.61	5.2	1.7	8.7	10.1	36	0.3	0.5	0.2	70	0.43	0.052
CAT 61281	Soil				2.8	41.9	52.9	79	0.2	34.2	13.6	415	3.52	7.4	1.1	43.0	6.6	39	0.4	0.4	0.4	82	0.38	0.053
CAT 61282	Soil				1.4	41.0	23.1	119	0.1	41.2	14.6	486	4.01	3.5	1.1	7.4	10.0	34	0.3	0.2	0.3	79	0.41	0.067
CAT 61283	Soil				1.8	39.1	14.4	103	0.1	33.2	9.5	308	3.37	3.5	0.7	6.1	7.8	26	0.2	0.2	0.2	74	0.26	0.045
CAT 61284	Soil				2.8	41.5	14.3	85	0.2	66.6	11.7	297	3.29	9.3	1.0	19.6	5.7	29	0.3	0.4	0.2	82	0.35	0.051
CAT 61285	Soil				1.9	30.8	21.1	87	0.1	33.4	11.3	326	3.09	5.9	0.7	6.9	4.3	29	0.3	0.4	0.2	80	0.29	0.070
CAT 61288	Soil				2.5	32.4	15.3	94	<0.1	50.0	16.9	505	3.89	7.3	0.9	7.7	6.5	16	0.2	0.4	0.2	78	0.14	0.036
CAT 61371	Soil				1.1	26.2	9.6	60	<0.1	32.3	11.1	256	3.25	6.1	0.9	2.6	6.5	22	<0.1	0.4	0.1	66	0.22	0.035
CAT 61379	Soil				1.5	61.5	13.5	106	<0.1	45.6	19.9	502	4.73	10.6	1.4	2.4	11.6	28	<0.1	0.7	0.2	96	0.40	0.058
CAT 61385	Soil				12.9	240.6	13.4	149	0.4	73.2	16.6	1398	3.77	108.9	2.5	3.4	8.4	68	1.7	3.0	0.2	121	2.84	0.247
CAT 61386	Soil				1.1	46.1	12.1	98	<0.1	52.5	21.2	377	4.62	23.2	1.5	0.9	24.2	21	<0.1	0.6	<0.1	43	0.29	0.036
CAT 61388	Soil				1.2	53.1	11.0	103	<0.1	61.3	27.0	648	5.70	5.2	0.8	1.2	9.7	40	<0.1	0.3	0.1	97	0.50	0.054
CAT 61390	Soil				1.2	38.6	10.2	78	<0.1	53.8	12.1	388	3.02	7.4	1.0	3.0	6.4	38	0.2	0.4	0.2	65	0.49	0.048
CAT 61391	Soil				0.7	55.3	12.6	73	<0.1	68.1	19.7	662	4.10	8.6	1.1	1.3	5.1	63	0.2	0.5	0.2	77	0.71	0.066
CAT 61392	Soil				1.1	39.0	18.8	91	<0.1	47.3	21.6	702	4.62	6.5	0.7	1.2	8.4	23	<0.1	0.4	0.2	75	0.27	0.019
CAT 61393	Soil				0.6	42.1	10.8	62	0.1	39.0	12.9	453	3.12	10.4	0.5	4.5	3.6	66	<0.1	0.6	0.2	63	1.81	0.061
CAT 61394	Soil				1.3	78.2	17.3	74	0.1	64.9	19.8	654	3.85	9.4	1.9	4.6	4.6	152	0.2	0.6	0.2	98	1.52	0.094
CAT 61395	Soil				1.3	72.0	13.6	61	0.1	71.0	20.4	912	3.50	7.8	1.2	2.3	5.5	146	0.3	0.4	0.1	72	1.45	0.077
CAT 61396	Soil				1.4	62.4	15.4	75	0.1	75.8	21.9	656	4.02	9.3	1.4	5.6	6.8	95	0.1	0.4	0.2	87	1.01	0.085
CAT 61398	Soil				1.1	31.5	14.6	68	<0.1	37.1	14.8	438	3.09	6.7	0.7	4.0	4.8	43	0.2	0.3	0.2	75	0.44	0.038
CAT 61479	Soil				0.4	74.2	4.5	60	<0.1	27.3	12.6	271	2.48	3.9	0.4	2.1	2.2	24	<0.1	0.4	<0.1	66	0.33	0.057



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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
CAT 61264	Soil	11	45	0.70	240	0.098	2	1.92	0.011	0.15	0.2	<0.01	3.3	0.1	<0.05	5	0.7
CAT 61269	Soil	16	52	0.70	198	0.152	2	1.92	0.014	0.24	0.1	0.02	3.2	0.2	<0.05	7	0.6
CAT 61272	Soil	26	57	0.91	252	0.168	1	2.23	0.016	0.22	<0.1	0.01	3.9	0.2	<0.05	7	0.5
CAT 61273	Soil	22	69	1.08	172	0.162	1	2.39	0.014	0.44	0.1	0.01	3.9	0.3	<0.05	8	0.7
CAT 61274	Soil	32	50	0.78	216	0.133	1	1.89	0.013	0.26	0.1	0.02	3.5	0.2	<0.05	6	0.5
CAT 61275	Soil	33	46	0.73	450	0.160	<1	1.91	0.012	0.35	<0.1	0.01	3.4	0.3	<0.05	8	0.6
CAT 61277	Soil	22	45	0.71	302	0.133	<1	1.71	0.013	0.23	0.2	0.03	3.7	0.2	<0.05	6	<0.5
CAT 61278	Soil	24	47	0.65	425	0.139	1	1.76	0.017	0.24	0.2	0.03	4.0	0.2	<0.05	5	<0.5
CAT 61279	Soil	27	42	0.61	356	0.098	1	1.63	0.013	0.15	0.2	0.02	4.0	0.2	<0.05	6	<0.5
CAT 61280	Soil	42	50	0.65	771	0.092	1	1.76	0.011	0.20	0.1	0.03	5.5	0.2	<0.05	7	0.5
CAT 61281	Soil	19	51	0.67	698	0.101	<1	1.94	0.013	0.20	<0.1	0.02	4.5	0.2	<0.05	7	0.6
CAT 61282	Soil	29	67	1.01	590	0.197	<1	2.09	0.011	0.62	0.1	0.02	5.0	0.5	<0.05	8	<0.5
CAT 61283	Soil	18	56	0.74	333	0.134	<1	1.79	0.010	0.35	0.2	0.02	4.5	0.3	<0.05	7	<0.5
CAT 61284	Soil	22	74	0.79	621	0.124	<1	1.64	0.013	0.21	0.2	0.02	4.2	0.1	<0.05	7	<0.5
CAT 61285	Soil	15	46	0.67	412	0.123	<1	1.65	0.012	0.22	0.2	0.02	3.5	0.1	<0.05	6	<0.5
CAT 61288	Soil	19	46	0.63	263	0.131	<1	2.24	0.010	0.25	0.1	0.01	3.9	0.2	<0.05	7	<0.5
CAT 61371	Soil	19	43	0.66	227	0.130	<1	1.77	0.010	0.26	0.1	0.01	3.6	0.2	<0.05	6	<0.5
CAT 61379	Soil	42	63	1.17	282	0.176	<1	2.58	0.012	0.67	0.1	<0.01	5.5	0.4	<0.05	8	<0.5
CAT 61385	Soil	35	36	0.39	341	0.028	<1	0.95	0.005	0.19	0.2	0.02	4.9	0.2	<0.05	3	2.1
CAT 61386	Soil	38	43	1.00	256	0.122	<1	2.25	0.008	0.65	<0.1	<0.01	5.3	0.5	<0.05	7	<0.5
CAT 61388	Soil	22	118	1.46	285	0.294	<1	3.01	0.014	1.06	0.1	<0.01	8.0	0.6	<0.05	11	0.6
CAT 61390	Soil	19	46	0.70	354	0.109	1	1.59	0.021	0.25	0.1	0.02	4.7	0.2	<0.05	5	<0.5
CAT 61391	Soil	23	91	1.02	659	0.120	<1	1.93	0.020	0.46	0.1	0.01	6.4	0.2	<0.05	7	<0.5
CAT 61392	Soil	19	57	1.11	311	0.230	<1	2.57	0.014	1.03	<0.1	<0.01	5.4	0.4	<0.05	9	<0.5
CAT 61393	Soil	17	48	0.77	309	0.085	2	1.47	0.025	0.22	0.2	0.04	4.6	0.1	<0.05	5	<0.5
CAT 61394	Soil	25	88	1.29	470	0.129	2	1.82	0.022	0.56	<0.1	0.04	6.1	0.3	0.07	6	0.7
CAT 61395	Soil	30	79	1.09	518	0.132	3	1.70	0.027	0.50	<0.1	0.02	5.5	0.2	0.06	6	0.6
CAT 61396	Soil	32	106	1.30	597	0.162	<1	2.11	0.018	0.56	<0.1	0.02	6.5	0.3	<0.05	8	0.8
CAT 61398	Soil	19	54	0.84	371	0.144	<1	1.66	0.020	0.32	0.2	0.01	3.9	0.2	<0.05	7	<0.5
CAT 61479	Soil	7	44	0.96	292	0.137	<1	1.57	0.014	0.18	0.1	0.01	2.9	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
CAT 61480	Soil	0.6	67.1	5.1	65	<0.1	34.7	17.7	455	3.31	5.6	0.9	2.1	3.4	29	<0.1	0.3	0.1	87	0.52	0.059
CAT 61481	Soil	0.3	108.9	2.7	53	<0.1	12.9	12.2	370	2.00	2.7	0.5	1.3	1.6	21	<0.1	0.3	<0.1	60	0.54	0.130
CAT 61482	Soil	0.4	22.0	4.3	45	<0.1	17.1	10.4	279	2.18	4.4	0.3	2.4	1.6	22	0.1	0.3	<0.1	57	0.38	0.050
CAT 61483	Soil	0.3	29.9	4.9	57	<0.1	19.2	11.8	320	2.89	6.0	0.6	1.0	2.2	29	<0.1	0.4	<0.1	74	0.66	0.055
CAT 61484	Soil	0.5	66.8	2.3	62	<0.1	13.4	15.0	469	3.27	2.1	0.4	1.2	1.1	36	<0.1	0.3	<0.1	90	0.44	0.078
CAT 61485	Soil	0.4	117.8	1.9	59	<0.1	18.5	15.5	469	3.30	2.7	0.5	4.0	1.3	21	<0.1	0.3	<0.1	101	0.47	0.067
CAT 61486	Soil	0.3	109.3	5.1	99	0.1	30.2	21.8	993	4.30	3.7	0.5	11.6	2.0	31	0.1	0.3	<0.1	135	0.66	0.088
CAT 61487	Soil	0.5	128.9	4.5	54	<0.1	26.6	13.7	319	2.70	6.6	1.1	7.0	3.4	26	<0.1	0.4	<0.1	76	0.46	0.064
CAT 61489	Soil	0.5	97.5	4.5	84	<0.1	31.9	18.6	616	3.77	3.2	1.0	0.6	5.5	23	<0.1	0.3	0.1	113	0.40	0.056
CAT 61491	Soil	0.1	42.8	2.4	27	<0.1	103.9	14.3	226	1.66	3.1	0.5	0.7	1.3	18	<0.1	0.2	<0.1	42	0.44	0.032
CAT 61492	Soil	0.3	130.1	2.1	24	<0.1	18.0	11.9	164	1.47	2.1	0.2	2.2	0.6	17	<0.1	0.2	<0.1	48	0.29	0.042
CAT 61494	Soil	0.5	79.1	5.5	57	<0.1	17.7	11.3	285	2.79	6.3	0.7	2.7	3.2	22	0.1	1.2	0.2	73	0.40	0.078
CAT 61496	Soil	0.5	90.0	4.5	62	<0.1	26.3	15.3	256	2.86	6.3	0.5	4.1	1.7	37	<0.1	0.4	0.1	97	0.54	0.065
CAT 61499	Soil	0.4	57.3	4.2	40	<0.1	17.6	10.6	197	1.77	4.2	0.5	2.7	1.3	58	0.1	0.4	<0.1	51	0.53	0.035
CAT 67047	Soil	1.7	33.9	16.8	84	0.4	38.3	11.4	483	3.68	24.7	0.6	1.2	2.5	17	0.2	3.8	0.2	85	0.38	0.055
CAT 67049	Soil	1.9	54.8	7.3	190	0.1	66.2	15.1	737	2.90	8.3	1.0	12.2	4.6	17	0.4	1.1	0.2	74	0.26	0.122
CAT 67051	Soil	3.4	66.8	8.4	107	0.2	28.7	9.2	429	3.13	7.7	1.4	1.1	3.9	23	0.3	0.6	0.2	106	0.15	0.084
CAT 67052	Soil	2.3	64.8	6.6	74	0.2	28.5	11.4	265	2.86	7.1	1.9	6.1	4.0	22	0.1	0.6	0.1	89	0.26	0.054
CAT 67054	Soil	1.8	38.9	5.8	67	0.2	22.1	7.2	278	2.60	7.4	0.9	1.9	3.0	24	0.2	0.5	0.1	75	0.30	0.128
CAT 67055	Soil	2.7	76.0	6.8	100	0.1	24.9	7.1	376	2.98	6.2	1.7	4.1	5.5	30	0.2	1.0	0.2	92	0.17	0.049
CAT 67056	Soil	0.9	25.2	8.0	47	<0.1	24.5	10.0	240	2.68	14.1	0.6	2.6	3.1	17	0.1	1.1	0.2	60	0.19	0.023
CAT 67057	Soil	3.8	107.5	8.4	108	0.1	35.8	17.7	1234	4.75	4.9	1.7	2.4	12.0	24	0.3	0.8	0.2	76	0.13	0.052
CAT 67058	Soil	4.3	35.8	8.2	62	0.2	25.3	7.7	287	3.11	31.3	0.9	2.0	2.3	20	0.2	4.3	0.2	48	0.13	0.051
CAT 67059	Soil	2.7	60.6	7.0	62	0.1	25.8	13.0	389	3.40	10.5	1.0	4.5	3.5	25	0.2	0.5	0.1	83	0.21	0.038
CAT 67060	Soil	2.0	83.9	6.9	81	0.1	46.7	12.4	552	3.22	8.1	1.4	4.0	3.5	31	0.2	0.6	0.1	89	0.30	0.051
CAT 67061	Soil	2.1	65.9	4.3	93	0.1	39.1	12.2	466	3.17	4.0	1.8	30.3	4.0	26	0.3	0.2	<0.1	112	0.37	0.114
CAT 67062	Soil	1.6	61.3	5.6	83	<0.1	44.8	14.9	612	2.87	6.6	1.4	2.5	4.0	21	0.1	0.7	0.1	89	0.23	0.043
CAT 67064	Soil	1.9	68.6	5.4	101	0.1	58.4	19.0	632	3.98	4.1	1.4	2.7	3.7	33	0.2	0.4	<0.1	131	0.43	0.152
CAT 67066	Soil	4.9	95.1	9.7	183	0.3	123.7	20.0	1016	5.81	82.9	2.4	5.4	5.0	34	0.8	8.2	0.2	73	0.70	0.268
CAT 67067	Soil	3.1	78.4	7.2	152	0.3	105.0	19.8	967	4.47	30.1	1.3	5.2	4.1	26	0.5	5.0	0.1	97	0.48	0.123



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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
CAT 61480	Soil	9	44	1.34	388	0.148	<1	2.25	0.020	0.24	0.1	0.02	4.6	0.3	<0.05	6	<0.5
CAT 61481	Soil	6	18	0.72	205	0.125	<1	1.11	0.019	0.19	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5
CAT 61482	Soil	6	39	0.85	194	0.099	<1	1.37	0.017	0.12	0.1	<0.01	2.3	<0.1	<0.05	4	<0.5
CAT 61483	Soil	8	46	1.15	182	0.086	<1	1.59	0.020	0.14	0.1	<0.01	4.6	<0.1	<0.05	5	<0.5
CAT 61484	Soil	4	34	1.45	263	0.138	<1	2.07	0.017	0.47	0.1	0.01	6.2	<0.1	<0.05	7	<0.5
CAT 61485	Soil	5	36	1.29	310	0.167	<1	1.92	0.018	0.57	<0.1	0.02	6.4	0.1	<0.05	7	<0.5
CAT 61486	Soil	7	38	1.75	382	0.236	<1	2.47	0.019	1.03	0.1	0.04	8.0	0.3	<0.05	8	<0.5
CAT 61487	Soil	17	38	0.91	287	0.132	<1	1.58	0.019	0.27	0.2	0.04	4.9	<0.1	<0.05	5	<0.5
CAT 61489	Soil	14	50	1.47	437	0.215	<1	2.27	0.018	0.82	0.1	<0.01	7.1	0.2	<0.05	7	<0.5
CAT 61491	Soil	5	179	1.42	197	0.114	<1	1.40	0.017	0.15	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5
CAT 61492	Soil	2	27	0.68	193	0.107	<1	0.95	0.011	0.18	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5
CAT 61494	Soil	11	24	0.75	490	0.090	2	1.44	0.015	0.14	0.2	0.04	3.7	<0.1	0.07	5	0.5
CAT 61496	Soil	7	28	0.88	259	0.130	3	1.53	0.019	0.17	0.1	0.02	2.7	<0.1	<0.05	5	<0.5
CAT 61499	Soil	6	32	0.49	263	0.068	1	0.94	0.028	0.08	0.1	0.03	2.5	<0.1	<0.05	4	<0.5
CAT 67047	Soil	9	41	0.40	237	0.038	3	1.36	0.014	0.06	0.4	0.02	5.3	<0.1	<0.05	5	<0.5
CAT 67049	Soil	12	51	0.63	257	0.083	<1	1.52	0.008	0.38	0.2	0.01	3.9	0.3	<0.05	6	<0.5
CAT 67051	Soil	16	59	0.79	418	0.128	1	1.85	0.012	0.48	0.1	0.02	3.7	0.4	<0.05	7	1.6
CAT 67052	Soil	14	53	0.67	359	0.104	<1	1.66	0.014	0.20	0.1	0.03	4.0	0.2	<0.05	6	0.9
CAT 67054	Soil	11	47	0.63	288	0.123	2	1.32	0.016	0.26	0.2	0.02	3.1	0.2	<0.05	6	0.8
CAT 67055	Soil	19	48	0.57	449	0.100	<1	1.12	0.015	0.36	<0.1	0.01	5.0	0.3	0.10	5	1.2
CAT 67056	Soil	10	36	0.47	198	0.069	2	1.78	0.014	0.04	0.1	0.02	2.3	<0.1	<0.05	5	0.6
CAT 67057	Soil	25	51	1.11	395	0.246	<1	2.03	0.010	1.24	<0.1	0.02	6.1	0.6	<0.05	8	2.2
CAT 67058	Soil	7	27	0.26	245	0.034	<1	0.94	0.009	0.09	0.3	0.02	2.5	0.1	0.07	3	1.8
CAT 67059	Soil	12	46	0.60	234	0.104	1	1.81	0.013	0.14	0.1	0.02	3.1	0.2	<0.05	6	0.6
CAT 67060	Soil	16	67	0.83	321	0.139	<1	1.65	0.016	0.38	0.1	0.02	4.6	0.2	0.06	7	0.9
CAT 67061	Soil	12	143	1.24	673	0.176	<1	1.81	0.013	0.76	<0.1	0.01	4.8	0.3	<0.05	7	1.1
CAT 67062	Soil	16	61	0.71	324	0.126	1	1.55	0.012	0.35	0.1	0.02	4.6	0.2	<0.05	6	0.8
CAT 67064	Soil	20	116	1.54	610	0.226	<1	2.30	0.010	1.04	0.1	0.01	5.4	0.3	<0.05	11	0.8
CAT 67066	Soil	34	42	0.25	420	0.013	<1	0.84	0.007	0.18	0.1	0.04	9.1	0.1	<0.05	3	1.9
CAT 67067	Soil	16	91	0.68	542	0.077	1	1.38	0.010	0.34	0.1	0.03	8.3	0.2	<0.05	6	1.6



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		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
CAT 67068	Soil	3.2	70.2	9.3	151	0.2	63.3	15.0	849	4.02	23.9	1.6	6.8	2.7	50	0.5	2.6	0.2	79	0.39
CAT 67069	Soil	3.1	71.6	11.0	166	0.2	64.7	16.4	1032	4.13	18.9	2.0	3.1	5.6	29	0.6	3.0	0.2	103	0.54
CAT 67072	Soil	1.4	55.3	5.5	76	<0.1	63.2	18.0	518	3.59	7.0	0.9	2.1	4.2	31	0.1	0.6	0.1	99	0.50
CAT 67074	Soil	1.5	43.7	14.3	108	<0.1	42.0	17.0	555	3.90	4.2	1.1	3.3	7.2	35	0.1	0.2	0.2	83	0.39
CAT 67075	Soil	0.9	34.7	12.8	86	<0.1	43.4	14.1	443	3.39	4.4	1.0	3.3	6.6	28	<0.1	0.2	0.1	80	0.33
CAT 67077	Soil	1.3	44.0	16.0	125	<0.1	45.2	19.7	438	4.88	4.4	1.8	7.0	17.2	25	0.2	0.2	0.1	83	0.20
CAT 67078	Soil	2.2	28.7	10.2	80	0.2	26.4	12.2	424	3.27	7.4	0.8	3.4	4.7	22	0.2	0.3	0.2	88	0.21
CAT 67079	Soil	1.8	43.9	9.4	68	0.1	26.0	12.5	304	2.93	8.3	1.5	7.2	4.8	22	0.2	0.4	0.2	89	0.21
CAT 67080	Soil	3.2	28.6	14.0	66	0.1	21.4	8.5	259	3.63	10.1	0.8	6.1	3.4	21	0.2	0.4	0.2	124	0.16
CAT 67081	Soil	3.1	64.0	12.2	119	<0.1	28.1	9.9	376	4.52	4.8	1.2	2.8	5.5	38	0.2	0.2	0.1	158	0.16
CAT 67082	Soil	3.0	60.9	12.1	119	<0.1	27.9	10.1	377	4.50	4.6	1.2	6.9	5.0	36	0.2	0.2	0.1	158	0.15
CAT 67084	Soil	2.3	54.5	13.4	102	0.1	29.8	12.2	294	3.54	7.8	1.7	5.2	5.3	28	0.2	0.3	0.2	103	0.19
CAT 67085	Soil	2.5	42.3	11.9	105	<0.1	28.6	16.7	440	3.58	11.0	0.9	2.1	4.9	25	0.2	0.3	0.2	99	0.14
CAT 67086	Soil	2.7	54.8	14.2	91	0.3	34.1	11.1	255	3.06	9.3	1.5	6.0	2.8	22	0.3	0.3	0.2	76	0.16
CAT 67089	Soil	1.5	35.4	10.4	82	<0.1	35.4	10.2	249	3.24	9.2	0.8	1.8	4.8	23	0.1	0.4	0.2	88	0.18
CAT 67091	Soil	0.7	32.5	10.4	85	<0.1	35.0	14.9	506	4.24	4.8	0.9	1.0	14.4	19	<0.1	0.3	0.1	78	0.28
CAT 67093	Soil	1.1	38.7	7.3	102	<0.1	19.1	14.4	473	4.83	5.8	0.7	1.9	4.2	14	<0.1	0.4	0.1	110	0.14
CAT 67097	Soil	1.2	41.2	10.6	89	<0.1	37.8	15.5	551	4.53	3.0	1.5	1.7	11.4	21	<0.1	0.2	0.1	82	0.19
CAT 67098	Soil	1.7	50.8	14.5	109	<0.1	41.4	14.1	529	3.91	3.0	1.3	1.8	11.2	19	0.1	0.1	0.2	84	0.25
CAT 67100	Soil	1.0	38.4	15.3	100	<0.1	25.7	15.8	514	3.84	4.2	0.8	0.8	7.0	14	0.1	0.3	0.2	77	0.23
CAT 67102	Soil	1.1	36.4	10.1	92	<0.1	38.2	13.5	379	3.83	5.5	1.0	3.1	10.3	18	<0.1	0.3	0.1	80	0.34
CAT 67103	Soil	0.8	45.4	10.8	76	<0.1	46.9	15.8	463	3.94	17.9	1.2	1.8	14.3	16	<0.1	0.2	0.2	54	0.28
CAT 67107	Soil	0.8	25.2	7.1	72	<0.1	24.2	18.1	511	3.63	5.2	0.3	<0.5	2.6	17	<0.1	0.3	<0.1	90	0.32
CAT 67449	Soil	0.7	43.2	11.5	69	<0.1	36.6	13.0	456	3.54	6.1	1.2	3.5	10.7	35	<0.1	0.4	0.1	52	0.67
CAT 67452	Soil	1.5	26.6	10.9	67	<0.1	38.5	16.7	401	3.75	17.8	0.7	1.8	10.5	24	<0.1	0.5	0.1	69	0.37
CAT 67455	Soil	1.3	48.8	10.1	74	<0.1	52.0	17.8	564	3.76	15.3	1.5	4.9	9.5	51	0.1	0.5	0.1	64	0.97
CAT 67456	Soil	1.6	61.8	12.6	83	0.2	69.9	19.9	673	4.14	42.1	2.2	4.1	8.8	75	0.2	1.2	0.1	79	1.12
CAT 67462	Soil	1.5	45.0	16.2	97	0.1	227.6	30.4	666	4.68	156.8	0.5	7.4	1.9	35	0.3	2.7	0.2	110	0.34
CAT 67464	Soil	1.4	19.6	12.5	56	0.1	24.4	8.8	175	2.73	64.1	0.5	1.8	1.9	25	0.3	1.5	0.1	71	0.20
CAT 67465	Soil	3.5	54.5	34.9	41	0.4	12.8	2.7	68	2.20	324.1	2.0	19.1	0.4	100	0.3	8.9	0.3	33	0.15



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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
CAT 67068	Soil	11	45	0.37	423	0.033	1	1.09	0.010	0.14	0.2	0.05	6.6	0.2	<0.05	4	1.6
CAT 67069	Soil	16	66	0.60	583	0.055	1	1.23	0.008	0.44	0.2	0.03	7.9	0.3	<0.05	6	1.2
CAT 67072	Soil	16	67	1.08	393	0.175	<1	1.78	0.020	0.55	0.2	0.03	5.0	0.2	<0.05	7	0.8
CAT 67074	Soil	23	72	1.12	478	0.213	<1	2.43	0.016	0.51	<0.1	0.02	4.7	0.3	<0.05	9	0.7
CAT 67075	Soil	20	86	1.02	378	0.175	<1	2.05	0.014	0.32	0.1	0.02	4.2	0.2	<0.05	8	<0.5
CAT 67077	Soil	43	72	1.16	338	0.292	<1	3.10	0.015	0.95	<0.1	<0.01	5.5	0.7	<0.05	11	0.7
CAT 67078	Soil	17	46	0.66	286	0.116	<1	1.81	0.012	0.21	0.2	0.02	3.0	0.2	<0.05	7	0.8
CAT 67079	Soil	13	47	0.66	289	0.102	<1	1.89	0.014	0.08	<0.1	0.02	4.2	0.2	<0.05	6	1.0
CAT 67080	Soil	11	54	0.62	220	0.125	2	1.85	0.015	0.10	<0.1	0.03	3.1	0.2	<0.05	8	0.8
CAT 67081	Soil	15	84	1.19	648	0.227	<1	2.46	0.015	0.69	<0.1	0.01	5.5	0.5	0.12	9	2.0
CAT 67082	Soil	14	81	1.17	656	0.233	<1	2.36	0.016	0.71	<0.1	0.01	5.6	0.5	0.11	9	1.5
CAT 67084	Soil	18	61	0.73	414	0.137	1	2.07	0.014	0.28	<0.1	0.02	4.0	0.3	<0.05	7	1.1
CAT 67085	Soil	18	53	0.68	300	0.141	<1	1.81	0.013	0.32	0.1	0.02	3.1	0.3	<0.05	7	0.9
CAT 67086	Soil	20	51	0.58	268	0.097	<1	1.90	0.011	0.22	0.1	0.03	3.2	0.2	<0.05	8	0.8
CAT 67089	Soil	13	47	0.68	308	0.140	<1	1.80	0.014	0.19	0.2	0.02	3.4	0.1	<0.05	6	<0.5
CAT 67091	Soil	17	62	1.05	283	0.238	<1	2.41	0.013	0.80	0.1	<0.01	5.5	0.5	<0.05	9	<0.5
CAT 67093	Soil	13	36	0.98	240	0.161	<1	2.29	0.012	0.62	0.1	0.01	11.3	0.4	<0.05	8	<0.5
CAT 67097	Soil	28	71	1.30	247	0.271	<1	3.03	0.016	0.96	<0.1	<0.01	5.1	0.5	<0.05	11	<0.5
CAT 67098	Soil	31	65	1.15	337	0.187	<1	2.32	0.011	0.73	<0.1	0.01	4.8	0.4	<0.05	8	0.9
CAT 67100	Soil	21	57	0.96	309	0.156	<1	2.13	0.011	0.38	0.1	<0.01	5.3	0.2	<0.05	7	0.9
CAT 67102	Soil	35	59	0.87	271	0.164	<1	2.00	0.011	0.52	0.2	0.02	4.9	0.3	<0.05	7	0.7
CAT 67103	Soil	25	51	0.82	213	0.163	<1	1.77	0.011	0.72	<0.1	0.02	4.6	0.3	<0.05	6	<0.5
CAT 67107	Soil	9	55	1.30	229	0.202	<1	2.47	0.012	0.59	0.1	0.01	2.4	0.2	<0.05	6	0.6
CAT 67449	Soil	37	37	0.65	365	0.098	2	1.51	0.017	0.37	<0.1	0.04	5.2	0.2	<0.05	5	0.6
CAT 67452	Soil	21	69	0.77	329	0.127	<1	1.90	0.012	0.52	0.1	<0.01	5.1	0.2	<0.05	7	0.6
CAT 67455	Soil	33	57	0.82	437	0.107	2	1.63	0.020	0.40	0.1	0.06	5.4	0.3	0.05	6	1.1
CAT 67456	Soil	30	79	0.99	500	0.085	1	1.55	0.016	0.38	0.1	0.08	7.6	0.2	<0.05	6	1.3
CAT 67462	Soil	6	243	1.54	538	0.082	4	1.93	0.010	0.19	0.1	0.10	8.0	0.5	<0.05	6	0.8
CAT 67464	Soil	6	31	0.41	419	0.032	1	1.41	0.009	0.06	0.2	0.04	2.7	0.2	<0.05	5	0.6
CAT 67465	Soil	6	14	0.08	519	0.003	2	0.54	0.008	0.23	0.1	0.63	2.3	1.3	0.38	2	3.7



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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	2	0.01	0.001
CAT 67466	Soil	3.5	13.4	46.3	20	0.6	8.2	2.9	79	2.65	405.3	0.6	3.5	2.3	37	0.2	3.0	0.3	53	0.16	0.066
CAT 67467	Soil	2.0	23.4	19.3	35	0.4	17.6	3.5	84	2.00	203.2	1.1	21.4	1.8	42	0.1	5.4	0.2	41	0.20	0.073
CAT 67472	Soil	0.2	97.4	2.3	35	<0.1	16.9	11.1	203	1.78	2.5	0.5	12.4	1.1	30	<0.1	0.4	<0.1	53	0.46	0.072
CAT 67477	Soil	0.5	72.8	4.0	45	<0.1	25.2	11.2	250	2.36	4.6	0.5	1.9	2.1	22	<0.1	0.3	<0.1	69	0.36	0.046
CAT 67481	Soil	0.2	23.4	0.7	28	<0.1	6.8	7.9	132	1.33	1.0	0.1	<0.5	0.5	13	<0.1	<0.1	<0.1	45	0.34	0.073
CAT 67487	Soil	0.3	91.7	1.4	66	<0.1	29.9	14.9	218	2.49	1.5	0.5	1.0	2.3	10	<0.1	<0.1	<0.1	73	0.43	0.130
CAT 67488	Soil	0.2	47.2	2.9	70	<0.1	11.5	14.5	443	3.65	2.6	0.5	2.3	1.8	17	<0.1	0.3	<0.1	99	0.58	0.133
CAT 67489	Soil	0.5	73.5	3.9	49	<0.1	17.6	15.7	250	2.66	5.2	0.3	2.2	1.4	15	<0.1	0.5	<0.1	98	0.31	0.046
CAT 67493	Soil	0.2	97.1	1.5	32	<0.1	11.6	8.6	148	1.55	2.1	0.3	2.4	1.6	11	<0.1	0.2	<0.1	46	0.37	0.077



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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
CAT 67466	Soil	6	24	0.13	395	0.012	2	0.62	0.011	0.31	<0.1	0.22	4.8	1.4	0.53	4	2.3
CAT 67467	Soil	9	33	0.23	483	0.014	1	0.90	0.010	0.11	0.2	0.52	3.9	0.9	0.14	4	3.5
CAT 67472	Soil	5	36	0.60	355	0.112	<1	1.00	0.021	0.07	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5
CAT 67477	Soil	8	51	0.73	324	0.112	<1	1.34	0.017	0.11	0.3	0.03	3.3	<0.1	<0.05	5	<0.5
CAT 67481	Soil	2	38	0.81	164	0.115	<1	1.03	0.013	0.35	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5
CAT 67487	Soil	8	97	1.30	180	0.182	<1	1.65	0.012	0.49	<0.1	<0.01	3.0	0.2	<0.05	7	<0.5
CAT 67488	Soil	6	13	1.74	263	0.181	2	2.25	0.017	0.57	0.2	0.01	7.3	0.2	<0.05	9	<0.5
CAT 67489	Soil	5	20	1.04	130	0.107	1	1.71	0.013	0.07	0.1	0.01	3.6	<0.1	<0.05	5	<0.5
CAT 67493	Soil	5	19	0.67	140	0.082	<1	0.95	0.015	0.15	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5



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QUALITY CONTROL REPORT

VAN09003943.1

	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
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates		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
CAT 61142	Soil	0.5	135.4	2.9	50	<0.1	21.0	15.3	242	2.74	3.5	0.2	1.9	0.9	45	<0.1	0.2	<0.1	97	0.42
REP CAT 61142	QC	0.4	132.5	2.9	51	<0.1	20.9	15.1	235	2.73	3.5	0.2	2.0	0.9	45	<0.1	0.3	<0.1	93	0.40
CAT 61144	Soil	0.5	130.5	2.9	37	<0.1	18.2	10.7	210	2.10	4.1	0.3	2.9	1.4	17	<0.1	0.2	<0.1	74	0.39
REP CAT 61144	QC	0.4	129.7	3.1	36	<0.1	17.7	10.7	211	2.03	4.1	0.3	13.1	1.4	17	<0.1	0.2	<0.1	73	0.37
CAT 61371	Soil	1.1	26.2	9.6	60	<0.1	32.3	11.1	256	3.25	6.1	0.9	2.6	6.5	22	<0.1	0.4	0.1	66	0.22
REP CAT 61371	QC	1.2	27.4	9.5	61	<0.1	30.7	11.2	268	3.32	6.0	0.9	1.1	6.3	22	<0.1	0.4	0.2	65	0.23
CAT 61492	Soil	0.3	130.1	2.1	24	<0.1	18.0	11.9	164	1.47	2.1	0.2	2.2	0.6	17	<0.1	0.2	<0.1	48	0.29
REP CAT 61492	QC	0.3	125.6	2.1	24	<0.1	18.1	12.3	161	1.50	2.1	0.1	1.5	0.6	17	<0.1	0.2	<0.1	47	0.27
CAT 61494	Soil	0.5	79.1	5.5	57	<0.1	17.7	11.3	285	2.79	6.3	0.7	2.7	3.2	22	0.1	1.2	0.2	73	0.40
REP CAT 61494	QC	0.5	80.1	5.7	59	<0.1	19.1	11.8	299	2.84	6.3	0.7	2.2	3.1	23	0.1	1.2	0.1	76	0.40
CAT 67057	Soil	3.8	107.5	8.4	108	0.1	35.8	17.7	1234	4.75	4.9	1.7	2.4	12.0	24	0.3	0.8	0.2	76	0.13
REP CAT 67057	QC	3.7	105.2	7.9	99	0.1	34.7	17.7	1236	4.64	5.1	1.7	4.3	11.1	23	0.2	0.8	0.2	73	0.14
CAT 67086	Soil	2.7	54.8	14.2	91	0.3	34.1	11.1	255	3.06	9.3	1.5	6.0	2.8	22	0.3	0.3	0.2	76	0.16
REP CAT 67086	QC	2.7	58.0	14.1	99	0.3	36.8	11.8	277	3.26	9.7	1.5	5.7	2.8	23	0.3	0.3	0.2	83	0.16
CAT 67487	Soil	0.3	91.7	1.4	66	<0.1	29.9	14.9	218	2.49	1.5	0.5	1.0	2.3	10	<0.1	<0.1	<0.1	73	0.43
REP CAT 67487	QC	0.3	93.1	1.3	62	<0.1	29.9	14.4	214	2.51	1.6	0.5	0.9	2.3	10	<0.1	<0.1	<0.1	72	0.44
Reference Materials																				
STD DS7	Standard	22.4	125.8	69.3	411	0.9	62.3	10.8	688	2.63	50.1	4.8	72.7	4.5	71	6.1	5.9	4.5	96	0.99
STD DS7	Standard	23.8	131.2	70.4	448	0.9	69.7	11.1	740	2.76	54.2	4.6	74.1	4.3	75	6.6	5.9	4.5	105	1.09
STD DS7	Standard	22.4	115.6	67.2	400	0.8	59.2	10.2	670	2.54	46.3	4.9	74.8	4.5	68	5.7	5.5	4.3	92	0.96
STD DS7	Standard	19.8	114.1	67.8	399	0.8	57.9	9.6	634	2.43	52.1	4.7	60.2	4.4	76	6.6	5.5	4.5	88	0.94
STD DS7	Standard	21.2	124.6	70.2	418	0.9	63.5	9.9	671	2.50	51.5	5.0	62.7	5.1	79	6.3	6.1	5.0	92	0.99
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
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	<0.1	<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



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Report Date: September 15, 2009

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QUALITY CONTROL REPORT

VAN09003943.1

	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																	
CAT 61142	Soil	4	35	0.97	256	0.183	2	1.71	0.015	0.22	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
REP CAT 61142	QC	4	34	1.01	248	0.178	1	1.78	0.016	0.21	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5
CAT 61144	Soil	5	29	0.67	332	0.109	<1	1.24	0.022	0.06	0.1	0.01	2.6	<0.1	<0.05	4	<0.5
REP CAT 61144	QC	5	28	0.67	329	0.106	1	1.16	0.021	0.06	0.1	0.01	2.5	<0.1	<0.05	4	<0.5
CAT 61371	Soil	19	43	0.66	227	0.130	<1	1.77	0.010	0.26	0.1	0.01	3.6	0.2	<0.05	6	<0.5
REP CAT 61371	QC	19	45	0.67	230	0.131	<1	1.79	0.011	0.27	0.1	0.02	3.8	0.2	<0.05	6	<0.5
CAT 61492	Soil	2	27	0.68	193	0.107	<1	0.95	0.011	0.18	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5
REP CAT 61492	QC	2	27	0.67	193	0.106	<1	0.94	0.010	0.18	<0.1	<0.01	1.6	<0.1	<0.05	2	<0.5
CAT 61494	Soil	11	24	0.75	490	0.090	2	1.44	0.015	0.14	0.2	0.04	3.7	<0.1	0.07	5	0.5
REP CAT 61494	QC	11	25	0.75	500	0.092	2	1.46	0.017	0.14	0.2	0.04	4.0	<0.1	0.06	5	<0.5
CAT 67057	Soil	25	51	1.11	395	0.246	<1	2.03	0.010	1.24	<0.1	0.02	6.1	0.6	<0.05	8	2.2
REP CAT 67057	QC	25	52	1.03	375	0.244	<1	2.09	0.010	1.16	<0.1	0.02	6.1	0.6	<0.05	8	2.3
CAT 67086	Soil	20	51	0.58	268	0.097	<1	1.90	0.011	0.22	0.1	0.03	3.2	0.2	<0.05	8	0.8
REP CAT 67086	QC	20	54	0.58	278	0.105	<1	1.97	0.012	0.23	<0.1	0.04	3.4	0.2	<0.05	7	0.9
CAT 67487	Soil	8	97	1.30	180	0.182	<1	1.65	0.012	0.49	<0.1	<0.01	3.0	0.2	<0.05	7	<0.5
REP CAT 67487	QC	8	97	1.25	182	0.185	<1	1.64	0.011	0.47	0.1	<0.01	3.0	0.2	<0.05	7	<0.5
Reference Materials																	
STD DS7	Standard	14	227	1.06	404	0.150	38	1.10	0.104	0.47	4.1	0.19	2.5	4.2	0.23	6	3.3
STD DS7	Standard	13	254	1.05	418	0.146	38	1.09	0.100	0.51	3.8	0.20	2.6	4.3	0.24	5	3.9
STD DS7	Standard	13	229	1.10	404	0.142	36	1.12	0.098	0.49	3.9	0.19	2.3	4.3	0.17	5	3.6
STD DS7	Standard	13	219	1.03	412	0.123	36	1.06	0.104	0.47	3.5	0.19	2.6	4.1	0.17	5	3.5
STD DS7	Standard	14	201	1.10	431	0.138	41	1.11	0.101	0.48	4.2	0.19	2.6	4.3	0.22	5	4.4
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
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