



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 31, 2009
Report Date: September 21, 2009
Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN09004097.1

CLIENT JOB INFORMATION

Project: CAT
Shipment ID:
P.O. Number
Number of Samples: 157

SAMPLE DISPOSAL

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

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

Invoice To: 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	157	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	157	Dry at 60C			VAN
1DX15	157	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

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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			
					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 59878	Soil																							
CAT 59879	Soil																							
CAT 59880	Soil																							
CAT 60946	Soil																							
CAT 60950	Soil																							
CAT 60951	Soil																							
CAT 60952	Soil																							
CAT 60954	Soil																							
CAT 60955	Soil																							
CAT 60956	Soil																							
CAT 60957	Soil																							
CAT 60959	Soil																							
CAT 60960	Soil																							
CAT 60961	Soil																							
CAT 60962	Soil																							
CAT 60963	Soil																							
CAT 60964	Soil																							
CAT 60965	Soil																							
CAT 60966	Soil																							
CAT 60969	Soil																							
CAT 60970	Soil																							
CAT 60971	Soil																							
CAT 60976	Soil																							
CAT 60977	Soil																							
CAT 61032	Soil																							
CAT 61109	Soil																							
CAT 61114	Soil																							
CAT 61117	Soil																							
CAT 61118	Soil																							
CAT 61121	Soil																							



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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 59878	Soil	107	103	1.97	673	0.140	2	2.41	0.015	0.72	0.1	0.04	4.3	0.4	<0.05	9	0.6
CAT 59879	Soil	23	55	0.91	437	0.123	1	1.93	0.015	0.36	0.1	0.02	3.7	0.2	<0.05	7	<0.5
CAT 59880	Soil	33	40	1.03	261	0.095	<1	2.28	0.006	0.69	<0.1	<0.01	4.3	0.5	<0.05	7	0.6
CAT 60946	Soil	17	42	0.60	429	0.057	<1	1.85	0.011	0.13	0.2	0.04	4.2	0.1	<0.05	6	1.2
CAT 60950	Soil	22	50	0.70	580	0.051	<1	1.32	0.009	0.59	0.1	0.02	4.6	0.4	0.09	5	2.4
CAT 60951	Soil	24	50	0.79	415	0.061	<1	1.45	0.008	0.61	0.1	<0.01	4.1	0.3	<0.05	6	<0.5
CAT 60952	Soil	14	21	0.20	296	0.007	2	0.77	0.006	0.13	0.2	0.02	4.7	0.1	<0.05	2	2.1
CAT 60954	Soil	27	41	0.73	233	0.089	<1	1.55	0.009	0.55	0.7	<0.01	3.6	0.4	<0.05	6	1.1
CAT 60955	Soil	27	42	0.75	329	0.071	<1	1.48	0.007	0.64	0.2	0.01	3.9	0.5	<0.05	6	1.8
CAT 60956	Soil	17	39	0.60	657	0.065	1	1.46	0.014	0.23	0.2	0.03	3.7	0.2	<0.05	5	0.9
CAT 60957	Soil	22	68	0.93	653	0.072	1	1.69	0.008	0.60	0.1	0.02	5.1	0.3	<0.05	6	1.1
CAT 60959	Soil	21	62	0.92	726	0.115	1	1.75	0.013	0.67	0.1	0.03	4.4	0.3	<0.05	6	0.9
CAT 60960	Soil	19	39	0.40	375	0.019	2	0.92	0.006	0.23	<0.1	0.02	4.9	0.1	<0.05	3	1.8
CAT 60961	Soil	17	53	0.69	463	0.077	2	1.71	0.016	0.22	0.1	0.02	5.0	0.1	<0.05	5	0.7
CAT 60962	Soil	32	82	1.03	743	0.099	<1	1.93	0.012	0.70	<0.1	0.01	4.9	0.3	0.07	7	1.5
CAT 60963	Soil	18	76	0.98	744	0.100	<1	1.76	0.008	0.70	0.1	<0.01	4.8	0.2	<0.05	7	1.1
CAT 60964	Soil	17	61	0.87	609	0.082	2	1.70	0.009	0.65	0.1	0.03	6.7	0.2	<0.05	7	0.9
CAT 60965	Soil	20	66	1.40	949	0.109	<1	2.45	0.011	1.33	0.1	0.02	6.1	0.4	<0.05	10	0.7
CAT 60966	Soil	13	49	0.69	404	0.069	1	1.66	0.015	0.24	0.1	0.02	3.9	0.1	<0.05	6	0.5
CAT 60969	Soil	15	69	0.94	564	0.098	2	1.80	0.010	0.70	0.1	0.02	5.8	0.3	<0.05	7	0.5
CAT 60970	Soil	15	39	0.45	414	0.043	2	0.99	0.010	0.24	0.2	0.02	3.4	0.2	<0.05	4	<0.5
CAT 60971	Soil	11	30	0.22	807	0.014	1	0.68	0.008	0.24	0.1	0.04	3.4	0.3	0.10	3	2.2
CAT 60976	Soil	14	36	0.60	624	0.036	3	1.04	0.023	0.17	0.5	0.05	5.8	0.2	<0.05	3	0.8
CAT 60977	Soil	18	65	0.84	613	0.084	2	1.65	0.010	0.59	0.2	0.03	6.6	0.2	<0.05	6	1.0
CAT 61032	Soil	11	32	0.81	367	0.086	2	1.39	0.021	0.20	0.2	0.04	3.4	<0.1	<0.05	4	0.6
CAT 61109	Soil	8	38	0.56	259	0.052	1	1.45	0.013	0.07	0.2	0.01	2.4	<0.1	<0.05	4	<0.5
CAT 61114	Soil	10	24	0.77	534	0.050	3	0.99	0.025	0.12	0.2	0.05	2.3	<0.1	<0.05	3	<0.5
CAT 61117	Soil	5	29	0.35	333	0.035	<1	1.11	0.008	0.04	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5
CAT 61118	Soil	12	33	0.66	356	0.068	2	1.40	0.016	0.13	0.2	0.06	3.1	<0.1	<0.05	4	0.6
CAT 61121	Soil	12	29	0.55	338	0.068	1	1.43	0.019	0.06	0.2	0.04	3.1	<0.1	<0.05	4	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 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 61123	Soil	0.6	35.8	7.1	52	<0.1	22.8	10.8	354	2.33	7.1	0.9	2.6	4.0	29	0.1	0.6	0.2	53	0.52	0.058
CAT 61124	Soil	0.1	72.9	5.0	20	<0.1	11.1	7.8	143	1.03	1.6	0.1	0.9	0.4	14	<0.1	<0.1	<0.1	32	0.30	0.098
CAT 61125	Soil	0.5	34.5	5.6	47	<0.1	21.5	9.0	295	2.21	7.0	0.5	28.0	3.1	36	0.2	0.5	0.1	53	0.82	0.082
CAT 61127	Soil	0.4	63.3	5.3	52	0.1	22.7	11.4	336	2.14	5.5	1.2	5.8	2.7	28	0.1	0.3	0.1	53	0.62	0.068
CAT 61128	Soil	0.6	27.5	6.3	54	<0.1	21.3	10.1	228	2.24	6.4	0.6	2.4	2.6	18	<0.1	0.3	0.1	56	0.29	0.045
CAT 61131	Soil	0.4	64.8	3.8	38	<0.1	18.7	12.3	239	1.80	3.8	0.6	2.4	1.5	30	0.2	0.3	<0.1	44	0.65	0.072
CAT 61132	Soil	0.6	74.5	5.9	61	0.1	22.0	11.0	419	2.06	3.5	0.7	2.5	1.6	40	0.5	0.4	0.1	53	0.79	0.053
CAT 61133	Soil	0.7	75.0	5.0	78	<0.1	30.0	13.0	1699	2.04	4.3	0.4	2.9	0.6	50	0.8	0.3	0.1	49	1.12	0.083
CAT 61136	Soil	0.6	341.1	7.1	65	0.1	33.9	16.9	399	2.95	6.3	0.6	7.3	1.6	71	0.3	1.6	0.1	89	0.97	0.064
CAT 61137	Soil	0.3	150.6	6.4	31	<0.1	19.4	15.5	144	1.82	3.3	0.4	4.0	0.7	83	0.2	0.3	<0.1	49	0.82	0.051
CAT 61138	Soil	0.2	218.4	5.7	13	0.1	23.0	34.2	220	1.50	2.4	0.2	6.9	0.4	117	0.2	0.3	<0.1	24	0.88	0.036
CAT 61139	Soil	0.4	403.9	7.6	63	0.1	29.9	17.6	389	2.94	6.1	0.6	8.7	1.6	88	0.2	1.8	<0.1	91	1.12	0.073
CAT 61260	Soil	1.4	57.2	18.6	98	<0.1	63.9	23.2	643	5.05	15.5	1.5	3.8	15.8	31	<0.1	0.4	0.1	79	0.28	0.038
CAT 61261	Soil	1.3	34.2	50.2	72	0.1	48.6	16.0	554	4.41	7.5	1.1	1.4	5.8	39	<0.1	0.4	0.8	91	0.45	0.104
CAT 61265	Soil	1.1	15.6	11.3	52	<0.1	19.3	10.4	377	2.99	10.3	0.6	1.6	2.8	13	<0.1	0.6	0.2	69	0.14	0.037
CAT 61266	Soil	1.1	31.6	20.6	72	<0.1	39.4	14.2	408	3.12	6.4	1.2	3.5	5.7	29	0.1	0.4	0.2	75	0.29	0.055
CAT 61267	Soil	1.3	47.1	48.7	97	0.1	71.2	16.6	591	4.10	6.6	1.5	1.9	9.1	47	0.1	0.3	0.5	85	0.48	0.085
CAT 61268	Soil	1.3	30.7	12.1	74	<0.1	32.3	12.6	374	3.31	6.0	1.1	3.1	6.5	23	<0.1	0.4	0.2	76	0.24	0.049
CAT 61270	Soil	1.6	39.5	12.9	74	0.1	34.1	13.3	341	3.40	5.6	1.2	3.0	7.1	25	<0.1	0.3	0.2	74	0.23	0.048
CAT 61271	Soil	1.6	38.2	12.4	74	0.1	33.7	13.0	322	3.32	5.6	1.2	5.5	6.7	27	0.1	0.3	0.2	75	0.23	0.049
CAT 61276	Soil	0.9	29.2	13.5	69	<0.1	33.4	11.2	253	3.29	4.1	1.1	3.0	7.5	37	0.1	0.2	0.2	72	0.35	0.039
CAT 61286	Soil	2.2	34.3	13.0	88	0.1	33.4	11.5	317	2.94	8.7	0.9	10.9	3.8	29	0.4	0.3	0.2	99	0.21	0.084
CAT 61287	Soil	3.5	58.7	14.9	120	0.1	42.2	12.1	327	3.40	7.5	1.4	5.0	4.3	52	0.4	0.3	0.2	137	0.29	0.077
CAT 61289	Soil	1.5	27.7	16.7	66	<0.1	30.0	10.8	209	3.15	8.3	0.7	2.8	5.4	18	0.1	0.6	0.2	72	0.16	0.021
CAT 61368	Soil	2.1	33.0	15.7	69	0.1	27.1	12.7	417	3.14	6.6	1.1	3.1	5.3	29	0.2	0.3	0.2	77	0.21	0.050
CAT 61369	Soil	1.8	25.9	13.4	59	<0.1	35.3	12.4	421	2.92	8.9	1.0	2.7	3.9	25	0.1	0.4	0.2	74	0.22	0.070
CAT 61370	Soil	1.4	16.0	13.4	42	<0.1	20.2	8.1	310	2.55	6.9	0.6	1.7	3.1	17	0.1	0.3	0.2	62	0.17	0.064
CAT 61372	Soil	1.3	24.1	9.5	69	<0.1	36.3	12.3	432	3.92	6.7	1.2	1.6	7.0	57	<0.1	0.4	0.1	77	0.47	0.184
CAT 61373	Soil	1.1	34.8	8.5	137	<0.1	58.4	23.8	1328	6.81	4.7	3.7	0.8	16.8	242	<0.1	0.2	0.1	111	1.87	0.568
CAT 61374	Soil	2.3	38.7	9.7	79	<0.1	46.8	15.3	591	5.01	6.0	1.9	3.9	14.6	42	0.1	0.4	0.2	92	0.60	0.236



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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 61123	Soil	12	27	0.53	296	0.078	1	1.32	0.024	0.06	0.2	0.03	3.4	<0.1	<0.05	4	<0.5
CAT 61124	Soil	1	40	0.54	153	0.072	<1	0.62	0.005	0.23	<0.1	<0.01	0.9	<0.1	<0.05	2	<0.5
CAT 61125	Soil	10	30	0.62	221	0.076	2	1.02	0.025	0.10	0.3	0.02	2.8	<0.1	<0.05	3	<0.5
CAT 61127	Soil	10	40	0.72	321	0.089	1	1.25	0.016	0.16	0.3	0.03	2.9	<0.1	<0.05	4	<0.5
CAT 61128	Soil	9	39	0.62	140	0.096	1	1.31	0.014	0.31	0.2	0.02	2.2	<0.1	<0.05	4	<0.5
CAT 61131	Soil	6	32	0.66	154	0.080	2	0.95	0.017	0.07	0.2	0.02	2.3	<0.1	<0.05	3	<0.5
CAT 61132	Soil	7	35	0.57	382	0.082	2	1.06	0.021	0.15	0.1	0.03	2.8	<0.1	<0.05	4	0.6
CAT 61133	Soil	6	49	0.63	623	0.063	5	1.15	0.020	0.21	0.1	0.07	1.8	<0.1	<0.05	4	<0.5
CAT 61136	Soil	7	44	1.14	321	0.139	3	1.73	0.027	0.21	0.1	0.04	3.3	<0.1	<0.05	5	0.7
CAT 61137	Soil	3	30	0.54	139	0.074	1	0.83	0.022	0.09	0.1	0.03	2.1	<0.1	<0.05	3	<0.5
CAT 61138	Soil	2	35	0.47	56	0.032	1	0.61	0.021	0.03	<0.1	<0.01	1.7	<0.1	<0.05	2	<0.5
CAT 61139	Soil	7	39	1.19	308	0.149	3	1.66	0.027	0.24	0.1	0.04	3.4	0.1	<0.05	5	0.8
CAT 61260	Soil	40	75	1.27	708	0.252	1	2.60	0.011	1.03	<0.1	0.01	7.2	0.6	<0.05	9	<0.5
CAT 61261	Soil	16	67	1.59	716	0.184	1	2.93	0.019	0.87	0.1	<0.01	5.2	0.3	<0.05	9	<0.5
CAT 61265	Soil	11	34	0.43	192	0.055	<1	1.65	0.008	0.05	0.2	0.02	2.3	<0.1	<0.05	6	<0.5
CAT 61266	Soil	19	68	0.80	352	0.125	<1	2.06	0.013	0.24	0.1	0.02	4.1	0.2	<0.05	7	<0.5
CAT 61267	Soil	40	125	1.22	546	0.144	<1	2.42	0.012	0.51	0.1	0.02	6.7	0.3	<0.05	9	<0.5
CAT 61268	Soil	19	55	0.80	219	0.172	<1	2.00	0.014	0.27	0.1	0.01	3.7	0.2	<0.05	7	<0.5
CAT 61270	Soil	25	53	0.95	289	0.141	<1	2.21	0.011	0.29	0.1	0.02	3.5	0.3	<0.05	7	<0.5
CAT 61271	Soil	24	53	0.94	293	0.141	1	2.22	0.013	0.26	0.1	0.02	3.5	0.2	<0.05	8	<0.5
CAT 61276	Soil	37	51	0.85	397	0.156	2	2.12	0.014	0.26	0.1	0.03	3.7	0.3	<0.05	9	<0.5
CAT 61286	Soil	15	49	0.61	413	0.102	1	1.75	0.013	0.11	0.2	0.02	3.4	0.1	<0.05	7	0.6
CAT 61287	Soil	18	66	0.73	554	0.112	<1	1.93	0.014	0.16	0.1	0.02	4.4	0.2	<0.05	7	1.0
CAT 61289	Soil	14	46	0.60	262	0.105	1	1.70	0.012	0.23	0.2	0.01	4.6	0.1	<0.05	5	<0.5
CAT 61368	Soil	19	49	0.74	231	0.113	1	2.09	0.012	0.15	0.1	0.02	3.5	0.2	<0.05	7	0.6
CAT 61369	Soil	15	52	0.63	256	0.110	1	1.77	0.011	0.15	0.2	0.02	3.1	0.2	<0.05	8	<0.5
CAT 61370	Soil	12	35	0.38	133	0.086	1	1.37	0.009	0.12	0.1	0.01	2.3	0.1	<0.05	6	<0.5
CAT 61372	Soil	29	50	0.91	257	0.180	<1	1.95	0.011	0.41	0.1	0.02	2.7	0.2	<0.05	8	<0.5
CAT 61373	Soil	130	65	2.06	915	0.073	<1	3.15	0.014	1.70	<0.1	0.01	3.5	0.5	<0.05	13	<0.5
CAT 61374	Soil	49	65	1.12	432	0.202	<1	2.55	0.012	0.87	0.1	0.02	4.8	0.3	<0.05	10	<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			
					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 61375	Soil				1.8	38.7	13.1	65	0.1	31.5	12.0	324	3.27	7.4	1.3	14.1	7.8	29	0.1	0.5	0.2	73	0.32	0.046
CAT 61376	Soil				1.6	22.6	12.6	52	<0.1	22.1	9.2	268	3.05	10.4	0.7	1.6	4.3	20	<0.1	0.6	0.2	72	0.21	0.036
CAT 61377	Soil				1.3	25.2	9.4	46	<0.1	19.7	8.6	205	2.54	6.8	0.8	2.9	4.6	19	<0.1	0.4	0.1	64	0.21	0.029
CAT 61378	Soil				1.2	28.9	11.6	66	<0.1	29.2	13.6	349	3.31	7.1	1.0	2.7	9.1	21	<0.1	0.4	0.1	66	0.26	0.043
CAT 61380	Soil				1.0	42.0	15.8	77	<0.1	41.0	17.9	336	4.08	10.8	1.1	4.5	12.7	20	<0.1	0.5	0.2	63	0.21	0.036
CAT 61381	Soil				1.4	47.2	10.3	89	<0.1	57.3	25.1	622	4.96	13.3	1.0	2.5	9.5	18	<0.1	0.4	0.1	95	0.26	0.072
CAT 61382	Soil				1.3	38.9	10.3	74	<0.1	34.9	13.9	330	3.57	8.7	1.1	15.4	9.2	24	0.2	0.5	0.1	78	0.34	0.039
CAT 61383	Soil				2.4	53.0	14.1	100	<0.1	51.9	20.2	529	4.47	29.3	1.5	11.8	13.6	24	<0.1	0.8	0.2	86	0.28	0.047
CAT 61384	Soil				0.9	33.9	13.4	74	<0.1	39.7	16.6	375	3.96	8.6	1.0	6.1	12.7	22	<0.1	0.5	0.2	94	0.31	0.056
CAT 61387	Soil				1.2	54.1	12.1	100	<0.1	67.2	32.1	1035	6.36	64.0	1.2	4.4	17.6	55	0.2	0.9	0.2	122	0.63	0.134
CAT 61389	Soil				1.4	36.0	12.8	58	<0.1	40.1	16.1	344	3.82	22.2	0.8	<0.5	4.7	46	0.1	0.7	0.1	72	0.53	0.029
CAT 61390	Soil				0.8	59.9	9.9	65	<0.1	68.5	16.7	569	3.59	12.2	1.1	1.9	6.1	64	<0.1	0.5	0.2	85	0.70	0.081
CAT 61397	Soil				1.7	42.7	15.2	64	<0.1	54.4	18.1	656	3.37	7.4	1.4	3.0	6.1	73	<0.1	0.3	0.2	83	0.77	0.076
CAT 61478	Soil				0.6	105.1	9.3	46	<0.1	20.8	10.9	270	2.25	5.9	0.4	2.3	1.7	22	<0.1	0.4	<0.1	66	0.37	0.049
CAT 61488	Soil				0.2	48.0	8.3	30	<0.1	13.9	6.7	295	1.66	2.3	0.6	2.2	10.8	13	<0.1	0.2	<0.1	45	0.29	0.036
CAT 61490	Soil				0.4	95.5	5.0	86	<0.1	29.4	17.9	660	3.83	2.9	1.1	1.5	5.2	24	0.1	0.3	0.1	126	0.39	0.059
CAT 61493	Soil				0.9	100.9	4.0	77	<0.1	27.5	20.9	440	4.25	4.7	0.2	<0.5	0.8	44	<0.1	0.3	<0.1	142	0.42	0.038
CAT 61495	Soil				0.4	99.9	4.7	64	<0.1	38.8	19.6	656	3.70	4.6	0.4	1.0	1.0	40	0.1	0.9	<0.1	120	0.90	0.063
CAT 61497	Soil				0.5	92.2	4.7	64	<0.1	26.3	15.1	266	2.95	7.1	0.5	1.6	1.8	45	<0.1	0.4	0.1	104	0.58	0.074
CAT 61498	Soil				0.6	59.8	6.6	48	<0.1	25.4	11.9	259	2.34	9.3	0.8	1.8	2.9	36	0.1	0.5	0.1	61	0.65	0.073
CAT 61500	Soil				0.5	41.4	4.6	26	<0.1	13.9	10.3	136	1.67	5.6	0.4	1.9	1.5	33	<0.1	0.3	<0.1	47	0.24	0.034
CAT 67042	Soil				3.4	67.5	8.9	94	0.1	56.1	14.9	688	3.68	112.2	1.6	4.7	7.4	34	0.2	9.6	0.5	44	0.30	0.069
CAT 67043	Soil				2.7	39.8	12.6	41	<0.1	23.7	2.9	88	2.73	23.5	2.1	3.6	7.3	22	0.1	6.2	0.9	15	0.14	0.055
CAT 67044	Soil				10.3	77.8	9.2	100	0.2	25.2	9.2	401	3.42	8.2	4.3	10.0	7.0	43	0.2	0.4	0.5	141	0.31	0.107
CAT 67045	Soil				3.7	60.1	14.2	77	<0.1	42.5	11.7	371	2.69	60.3	2.9	4.6	11.5	20	0.5	5.7	0.3	42	0.22	0.057
CAT 67046	Soil				7.4	119.6	12.5	215	0.1	80.5	14.5	549	3.50	10.8	1.9	1.6	6.4	30	1.2	2.2	0.2	71	0.37	0.143
CAT 67048	Soil				1.8	76.0	9.8	131	0.1	59.9	11.8	421	3.95	10.0	1.9	1.6	4.9	33	0.4	1.7	0.2	96	0.33	0.106
CAT 67050	Soil				3.5	69.4	9.0	148	0.4	42.8	10.0	321	3.39	5.1	2.0	1.2	4.7	32	0.4	1.2	0.2	118	0.25	0.116
CAT 67053	Soil				2.5	46.9	10.1	86	0.3	26.9	10.8	297	3.52	13.8	1.0	1.6	3.5	25	0.3	1.3	0.2	98	0.18	0.082
CAT 67063	Soil				2.0	68.0	6.5	110	0.1	56.9	17.5	639	3.95	5.0	1.4	1.8	3.7	39	0.3	0.4	0.1	135	0.43	0.157



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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 61375	Soil	28	47	0.71	299	0.111	1	1.86	0.014	0.19	0.2	0.03	4.6	0.2	<0.05	6	<0.5
CAT 61376	Soil	13	36	0.53	204	0.079	<1	1.86	0.011	0.09	0.2	0.02	3.1	0.1	<0.05	6	<0.5
CAT 61377	Soil	16	32	0.47	173	0.101	<1	1.41	0.011	0.12	0.1	0.02	2.8	0.1	<0.05	6	<0.5
CAT 61378	Soil	29	43	0.76	207	0.130	<1	1.85	0.011	0.36	0.1	0.02	3.7	0.2	<0.05	6	<0.5
CAT 61380	Soil	38	56	0.83	242	0.127	<1	2.05	0.010	0.41	<0.1	0.02	5.4	0.4	<0.05	7	<0.5
CAT 61381	Soil	32	86	1.10	208	0.157	1	2.53	0.010	0.55	<0.1	0.01	5.5	0.4	<0.05	8	<0.5
CAT 61382	Soil	32	46	0.78	340	0.101	1	1.98	0.011	0.15	0.1	0.02	4.9	0.2	<0.05	6	<0.5
CAT 61383	Soil	38	47	0.71	293	0.060	1	1.99	0.008	0.30	<0.1	0.04	7.2	0.2	<0.05	6	0.7
CAT 61384	Soil	42	54	1.10	279	0.112	<1	2.46	0.009	0.54	0.1	0.01	4.7	0.3	<0.05	7	<0.5
CAT 61387	Soil	48	64	1.53	406	0.120	<1	2.36	0.011	0.83	<0.1	0.02	9.6	0.4	<0.05	8	1.1
CAT 61389	Soil	15	62	0.64	328	0.087	1	1.64	0.016	0.26	<0.1	0.01	4.6	0.1	<0.05	7	<0.5
CAT 61390	Soil	30	78	1.03	562	0.112	2	1.88	0.023	0.36	0.1	0.03	6.5	0.2	<0.05	6	<0.5
CAT 61397	Soil	26	78	1.03	419	0.141	<1	1.72	0.019	0.36	0.1	0.02	5.1	0.2	<0.05	7	<0.5
CAT 61478	Soil	6	31	0.67	255	0.086	1	1.43	0.017	0.06	0.1	0.01	2.5	<0.1	<0.05	5	<0.5
CAT 61488	Soil	22	22	0.48	202	0.065	<1	0.95	0.017	0.13	<0.1	0.02	3.5	<0.1	<0.05	3	<0.5
CAT 61490	Soil	14	55	1.44	437	0.235	<1	2.22	0.020	0.86	<0.1	0.01	7.5	0.2	<0.05	7	<0.5
CAT 61493	Soil	3	36	2.17	555	0.290	<1	3.00	0.015	0.90	<0.1	0.02	2.4	0.4	<0.05	6	<0.5
CAT 61495	Soil	6	58	1.26	405	0.079	7	1.98	0.026	0.10	0.6	0.03	7.9	<0.1	<0.05	6	<0.5
CAT 61497	Soil	7	27	0.93	292	0.130	2	1.64	0.018	0.18	0.2	0.01	3.0	<0.1	<0.05	5	<0.5
CAT 61498	Soil	11	33	0.63	375	0.078	<1	1.12	0.025	0.11	0.2	0.02	3.6	<0.1	<0.05	4	<0.5
CAT 61500	Soil	6	26	0.33	154	0.053	<1	1.02	0.013	0.03	0.1	0.01	2.4	<0.1	<0.05	3	<0.5
CAT 67042	Soil	24	22	0.26	220	0.013	<1	0.95	0.009	0.08	0.2	0.03	5.6	0.1	<0.05	3	2.6
CAT 67043	Soil	16	8	0.10	127	0.005	<1	0.43	0.005	0.09	0.1	0.01	3.9	<0.1	<0.05	1	3.1
CAT 67044	Soil	28	67	0.97	561	0.112	<1	1.84	0.015	0.64	0.2	<0.01	4.8	0.4	0.13	7	2.6
CAT 67045	Soil	30	20	0.29	221	0.022	<1	1.00	0.007	0.06	0.2	0.02	3.8	0.1	<0.05	3	1.6
CAT 67046	Soil	22	40	0.59	369	0.059	<1	1.27	0.009	0.33	0.2	<0.01	4.2	0.3	<0.05	4	1.6
CAT 67048	Soil	24	72	0.93	758	0.116	<1	1.71	0.011	0.54	0.1	0.01	7.2	0.3	<0.05	7	1.7
CAT 67050	Soil	13	73	0.87	780	0.101	1	1.65	0.011	0.54	<0.1	<0.01	4.9	0.4	0.06	6	1.4
CAT 67053	Soil	12	54	0.59	334	0.073	<1	1.86	0.011	0.16	0.1	0.02	3.4	0.2	<0.05	6	0.8
CAT 67063	Soil	20	111	1.50	607	0.213	<1	2.23	0.011	1.00	0.1	0.01	5.4	0.3	<0.05	10	0.8



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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	%	%
CAT 67065	Soil	2.5	84.2	7.4	126	0.1	43.3	11.7	596	3.40	8.4	2.7	1.5	6.1	23	0.3	1.2	0.1	107	0.34	0.123
CAT 67070	Soil	2.6	63.7	11.6	135	0.2	59.0	14.6	632	3.94	15.3	1.8	1.7	8.2	31	0.5	1.7	0.1	119	0.46	0.145
CAT 67071	Soil	2.3	56.5	5.8	122	0.1	31.8	10.6	567	3.35	5.8	1.8	1.3	4.4	37	0.3	0.3	0.1	130	0.42	0.083
CAT 67073	Soil	2.2	77.7	5.2	112	<0.1	74.3	24.8	1052	4.81	5.3	1.3	2.4	5.5	32	0.2	0.4	0.1	121	0.52	0.123
CAT 67076	Soil	1.2	46.6	16.1	94	0.2	50.2	14.0	652	3.58	3.9	2.1	14.1	7.2	38	0.3	0.2	0.2	82	0.37	0.059
CAT 67083	Soil	2.6	44.1	12.3	91	0.1	27.9	9.2	264	3.39	12.0	1.3	4.2	3.3	31	0.2	0.4	0.2	103	0.22	0.052
CAT 67087	Soil	3.2	44.3	14.6	99	0.2	31.5	9.7	227	3.46	8.5	1.2	5.1	4.0	26	0.3	0.3	0.2	104	0.17	0.064
CAT 67088	Soil	6.6	53.5	16.3	136	0.4	50.2	9.5	284	3.92	12.2	1.7	10.1	5.7	27	0.2	0.2	0.2	118	0.18	0.076
CAT 67090	Soil	2.3	61.7	16.3	98	<0.1	43.6	12.2	370	4.15	9.6	1.1	0.8	7.6	42	0.1	0.3	0.2	100	0.16	0.051
CAT 67092	Soil	1.6	39.7	11.7	83	<0.1	38.5	12.5	541	3.74	4.8	1.5	8.3	14.0	35	0.1	0.4	0.1	77	0.37	0.044
CAT 67094	Soil	1.8	49.0	17.3	128	<0.1	29.3	15.1	613	4.66	4.4	1.6	<0.5	14.0	31	0.1	0.3	0.2	83	0.18	0.028
CAT 67095	Soil	2.2	45.1	15.5	94	<0.1	29.7	12.1	706	3.48	6.1	1.4	2.2	6.6	26	0.2	0.3	0.2	83	0.25	0.059
CAT 67096	Soil	1.3	21.7	9.3	53	<0.1	21.9	9.7	275	2.82	6.5	1.0	1.5	4.9	16	<0.1	0.3	0.1	62	0.20	0.036
CAT 67099	Soil	1.5	37.5	13.4	104	<0.1	39.3	13.5	514	3.98	3.2	1.2	2.3	9.5	19	0.1	0.2	0.2	77	0.25	0.057
CAT 67101	Soil	0.9	27.2	9.6	78	<0.1	35.4	13.2	382	3.81	4.0	0.8	1.2	8.1	18	<0.1	0.2	0.1	67	0.25	0.035
CAT 67104	Soil	0.6	28.7	8.4	75	<0.1	51.9	17.7	457	4.33	3.9	1.0	1.1	10.8	19	<0.1	0.2	0.1	69	0.45	0.050
CAT 67105	Soil	0.8	34.9	10.3	82	<0.1	55.5	17.5	474	4.34	3.9	1.0	1.9	12.4	15	<0.1	0.2	0.1	67	0.31	0.039
CAT 67106	Soil	0.8	34.9	6.7	67	<0.1	72.6	19.5	530	4.17	4.7	0.6	<0.5	6.6	17	<0.1	0.2	0.1	69	0.40	0.050
CAT 67108	Soil	0.7	24.9	9.1	52	<0.1	24.4	9.0	299	2.55	4.5	0.6	3.0	3.6	14	0.1	0.3	0.2	55	0.24	0.043
CAT 67109	Soil	1.3	31.2	14.9	81	<0.1	39.4	13.9	733	4.04	4.2	1.3	0.8	9.1	25	0.1	0.2	0.2	80	0.58	0.065
CAT 67438	Soil	0.9	43.7	6.4	71	<0.1	47.6	16.5	405	3.79	7.0	0.9	3.0	11.5	21	<0.1	0.4	<0.1	62	0.39	0.030
CAT 67439	Soil	0.7	29.8	8.1	77	<0.1	34.5	14.7	494	3.75	7.5	0.8	2.0	9.1	29	0.1	0.4	<0.1	63	0.54	0.059
CAT 67440	Soil	0.8	32.9	9.9	74	<0.1	38.4	16.4	409	4.24	9.4	1.0	<0.5	12.4	17	<0.1	0.4	<0.1	64	0.29	0.024
CAT 67441	Soil	1.6	38.9	8.7	95	<0.1	47.2	20.8	429	4.60	7.2	1.7	0.7	19.4	15	<0.1	0.4	<0.1	54	0.22	0.026
CAT 67442	Soil	1.1	35.2	9.3	91	<0.1	40.5	18.5	577	4.19	5.3	0.8	2.9	12.8	27	<0.1	0.3	<0.1	59	1.16	0.055
CAT 67443	Soil	1.0	26.0	26.6	70	0.1	31.9	14.6	762	3.61	7.3	0.8	5.2	9.8	29	<0.1	0.4	0.2	58	0.58	0.050
CAT 67444	Soil	0.7	28.1	13.1	53	0.2	26.7	11.1	451	2.81	9.0	0.6	13.7	4.8	48	0.1	0.4	0.1	56	2.27	0.054
CAT 67445	Soil	1.3	41.8	17.3	97	<0.1	40.0	19.1	628	5.40	4.1	1.5	2.7	23.1	18	<0.1	0.2	<0.1	55	0.39	0.058
CAT 67446	Soil	1.1	38.4	11.2	91	<0.1	45.4	18.6	556	4.37	5.9	1.0	3.7	16.1	16	<0.1	0.3	<0.1	56	0.29	0.028
CAT 67447	Soil	0.8	42.0	8.3	58	<0.1	36.2	12.0	411	2.94	11.8	0.7	4.9	6.0	38	0.1	0.5	0.1	59	1.49	0.047



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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 67065	Soil	26	73	1.10	465	0.132	<1	1.80	0.008	0.83	0.1	<0.01	5.6	0.3	<0.05	7	1.9
CAT 67070	Soil	24	66	0.75	641	0.100	2	1.44	0.011	0.64	0.1	0.02	8.1	0.3	<0.05	5	1.0
CAT 67071	Soil	17	80	1.17	543	0.195	<1	1.97	0.016	0.65	<0.1	0.01	5.1	0.4	0.07	8	1.4
CAT 67073	Soil	22	80	1.60	596	0.242	<1	2.43	0.018	1.31	0.1	0.02	6.5	0.4	<0.05	10	0.5
CAT 67076	Soil	31	87	1.00	392	0.163	<1	2.12	0.014	0.41	0.1	0.03	5.5	0.3	<0.05	7	<0.5
CAT 67083	Soil	16	55	0.70	381	0.125	<1	1.98	0.013	0.21	<0.1	0.01	3.8	0.2	<0.05	7	0.9
CAT 67087	Soil	22	57	0.62	323	0.137	<1	1.77	0.011	0.30	0.1	0.04	3.8	0.2	<0.05	8	0.6
CAT 67088	Soil	32	68	0.74	307	0.148	1	2.23	0.012	0.36	<0.1	0.05	4.8	0.4	<0.05	9	0.8
CAT 67090	Soil	21	55	0.87	244	0.152	<1	1.87	0.013	0.47	0.1	<0.01	4.6	0.3	0.10	7	0.8
CAT 67092	Soil	45	44	0.90	438	0.136	2	1.86	0.013	0.37	<0.1	0.03	7.1	0.3	<0.05	7	0.7
CAT 67094	Soil	41	66	1.10	395	0.236	<1	2.52	0.010	0.75	<0.1	<0.01	5.4	0.5	<0.05	9	0.8
CAT 67095	Soil	22	48	0.98	243	0.162	1	2.17	0.012	0.42	<0.1	0.01	3.9	0.3	<0.05	8	0.5
CAT 67096	Soil	19	38	0.58	204	0.074	<1	1.81	0.016	0.15	0.1	0.02	2.4	0.1	<0.05	6	<0.5
CAT 67099	Soil	31	63	1.13	362	0.142	<1	2.30	0.011	0.72	0.1	<0.01	4.1	0.4	<0.05	9	0.7
CAT 67101	Soil	22	58	0.98	257	0.151	<1	2.25	0.013	0.52	<0.1	<0.01	3.5	0.3	<0.05	8	<0.5
CAT 67104	Soil	28	74	1.25	261	0.204	<1	2.66	0.018	0.98	0.1	0.02	3.8	0.6	<0.05	9	<0.5
CAT 67105	Soil	34	78	1.29	286	0.182	<1	2.66	0.013	0.91	0.1	0.01	4.5	0.5	<0.05	9	<0.5
CAT 67106	Soil	16	83	1.56	252	0.185	<1	2.78	0.013	1.13	0.2	<0.01	2.6	0.5	<0.05	8	<0.5
CAT 67108	Soil	15	39	0.53	180	0.080	1	1.51	0.014	0.11	0.2	0.02	2.3	<0.1	<0.05	5	<0.5
CAT 67109	Soil	26	61	1.22	364	0.123	<1	2.46	0.015	0.70	0.1	0.02	4.6	0.4	<0.05	9	0.7
CAT 67438	Soil	37	43	0.95	320	0.121	<1	1.92	0.023	0.47	0.1	0.04	5.0	0.3	<0.05	6	<0.5
CAT 67439	Soil	28	43	0.87	306	0.129	<1	1.83	0.023	0.54	0.2	0.02	4.0	0.3	<0.05	6	<0.5
CAT 67440	Soil	27	51	0.83	241	0.123	<1	2.25	0.011	0.80	0.1	0.01	5.8	0.4	<0.05	7	<0.5
CAT 67441	Soil	44	46	0.87	194	0.110	<1	2.19	0.010	0.85	<0.1	0.02	5.2	0.6	<0.05	6	<0.5
CAT 67442	Soil	35	45	1.03	305	0.153	<1	2.11	0.021	0.71	0.1	0.03	3.8	0.5	<0.05	7	<0.5
CAT 67443	Soil	31	39	0.72	326	0.112	1	1.74	0.018	0.49	0.2	0.02	4.0	0.2	<0.05	6	0.6
CAT 67444	Soil	16	34	0.62	293	0.076	3	1.36	0.021	0.19	0.2	0.02	3.4	0.1	<0.05	4	0.5
CAT 67445	Soil	52	53	1.03	338	0.263	<1	2.50	0.009	1.32	<0.1	0.01	4.6	0.8	<0.05	9	0.6
CAT 67446	Soil	41	47	0.87	264	0.136	1	2.07	0.012	0.89	0.1	0.03	4.5	0.6	<0.05	7	<0.5
CAT 67447	Soil	31	35	0.68	286	0.085	2	1.44	0.022	0.20	0.1	0.05	3.7	0.1	<0.05	4	0.6



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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	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
CAT 67448	Soil	1.1	22.6	10.1	53	<0.1	28.6	13.2	605	3.15	8.0	0.6	4.4	6.8	21	<0.1	0.5	0.1	54	0.39	0.016
CAT 67450	Soil	1.2	39.0	11.4	79	0.1	44.1	16.5	645	4.09	10.5	0.9	3.5	12.0	41	<0.1	0.5	0.1	64	1.77	0.040
CAT 67451	Soil	2.6	55.9	12.7	106	0.2	89.8	25.4	880	5.33	29.8	2.2	2.7	12.9	47	0.2	0.7	0.2	83	0.68	0.084
CAT 67453	Soil	2.0	45.7	12.3	91	<0.1	59.4	21.3	829	4.63	57.6	1.4	5.1	12.3	77	<0.1	2.1	0.1	63	0.48	0.040
CAT 67454	Soil	0.8	28.5	10.1	72	0.1	36.0	14.9	654	3.54	21.2	0.9	9.2	8.8	60	0.1	0.5	0.1	52	1.26	0.042
CAT 67457	Soil	0.8	32.4	16.4	86	0.2	117.9	18.5	827	2.76	119.7	1.2	4.2	2.2	45	0.4	1.4	0.1	51	1.19	0.064
CAT 67458	Soil	0.7	29.6	10.5	75	0.1	157.2	21.0	559	3.01	27.2	1.0	2.5	4.3	20	0.2	0.5	0.1	63	0.51	0.061
CAT 67459	Soil	1.0	65.1	159.4	83	0.3	76.7	31.9	1217	5.44	165.8	0.8	1.6	1.0	41	0.4	1.3	0.8	115	1.08	0.068
CAT 67460	Soil	2.4	26.9	19.1	67	0.2	31.5	9.9	299	2.14	203.9	0.9	5.7	1.5	40	0.2	3.0	0.2	50	0.33	0.052
CAT 67461	Soil	2.5	44.3	21.6	130	0.1	162.8	22.9	591	4.97	510.0	1.0	14.0	2.7	59	0.4	5.2	0.2	96	0.30	0.062
CAT 67463	Soil	1.6	51.0	12.8	134	<0.1	126.7	24.7	947	4.74	227.5	1.2	10.6	4.6	41	0.3	2.4	0.1	74	0.51	0.041
CAT 67468	Soil	2.9	41.1	25.9	109	0.1	142.3	22.0	753	4.54	296.5	1.1	<0.5	7.5	22	0.6	4.8	0.2	64	0.33	0.047
CAT 67469	Soil	2.8	52.9	52.2	133	0.5	65.0	11.8	501	3.41	196.2	2.0	2.6	4.1	37	0.5	1.9	0.4	61	0.85	0.076
CAT 67470	Soil	4.4	44.2	19.3	171	0.6	70.5	26.8	765	3.24	339.1	1.1	1.0	0.8	27	0.5	3.7	0.2	62	0.12	0.072
CAT 67471	Soil	0.3	33.7	1.9	14	<0.1	12.5	13.3	86	1.18	3.5	0.3	1.7	0.9	17	<0.1	0.2	<0.1	29	0.26	0.033
CAT 67473	Soil	0.5	69.5	3.7	27	<0.1	16.6	7.8	172	1.71	5.8	0.2	<0.5	0.9	24	<0.1	0.3	<0.1	43	0.29	0.042
CAT 67474	Soil	0.5	70.3	3.3	39	<0.1	17.0	10.4	219	2.27	5.8	0.3	0.8	1.3	20	<0.1	0.3	<0.1	68	0.36	0.054
CAT 67475	Soil	0.4	57.2	4.1	39	<0.1	16.1	10.1	225	2.43	5.7	0.5	4.1	2.3	25	<0.1	0.3	<0.1	67	0.37	0.052
CAT 67476	Soil	0.4	92.4	4.9	46	<0.1	20.7	10.1	218	2.44	5.5	0.8	4.3	2.9	33	<0.1	0.3	0.1	63	0.37	0.053
CAT 67478	Soil	0.5	61.5	6.2	48	<0.1	24.6	10.4	326	2.38	6.3	1.3	4.4	3.4	34	<0.1	0.5	0.2	56	0.46	0.054
CAT 67479	Soil	0.4	48.2	5.7	60	<0.1	17.5	12.2	388	2.71	4.1	0.9	2.7	5.7	32	0.1	0.3	<0.1	66	0.51	0.083
CAT 67480	Soil	0.3	47.2	5.9	56	<0.1	16.6	10.7	339	2.45	3.7	0.8	3.4	5.6	30	<0.1	0.3	<0.1	59	0.46	0.074
CAT 67482	Soil	0.1	30.5	0.8	40	<0.1	8.5	10.5	219	2.25	0.9	0.4	1.4	1.1	17	<0.1	0.2	<0.1	65	0.50	0.070
CAT 67483	Soil	0.1	32.2	0.9	40	<0.1	8.7	11.4	234	2.33	0.8	0.4	1.4	1.2	17	<0.1	0.2	<0.1	66	0.50	0.068
CAT 67484	Soil	0.2	62.5	2.2	42	<0.1	23.0	11.0	215	2.15	1.6	0.4	0.9	1.2	21	<0.1	0.2	<0.1	64	0.45	0.084
CAT 67485	Soil	0.4	55.8	3.6	55	<0.1	16.6	12.4	260	2.79	3.9	0.5	2.7	1.9	25	<0.1	0.2	<0.1	81	0.45	0.079
CAT 67486	Soil	0.4	42.0	3.9	56	<0.1	15.1	12.3	303	2.92	4.2	0.7	1.0	2.7	27	<0.1	0.2	<0.1	72	0.47	0.073
CAT 67490	Soil	0.1	58.2	1.1	26	<0.1	14.7	9.8	224	1.59	1.4	0.5	1.3	2.0	14	<0.1	0.2	<0.1	47	0.39	0.104
CAT 67491	Soil	0.2	52.0	1.3	29	<0.1	11.9	9.8	203	1.66	1.9	0.4	1.4	1.9	14	<0.1	0.2	<0.1	49	0.38	0.097
CAT 67492	Soil	0.3	91.6	3.5	53	<0.1	21.6	11.9	295	2.45	4.1	0.7	1.3	2.8	27	<0.1	0.4	<0.1	67	0.49	0.078



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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 67448	Soil	19	35	0.48	397	0.069	1	1.59	0.015	0.27	0.1	0.02	4.5	0.1	<0.05	5	<0.5
CAT 67450	Soil	37	51	0.87	553	0.114	<1	1.93	0.016	0.62	0.1	0.07	5.3	0.4	<0.05	6	0.7
CAT 67451	Soil	35	97	1.20	761	0.072	1	2.07	0.015	0.86	<0.1	0.07	8.1	0.6	0.06	8	1.1
CAT 67453	Soil	33	59	0.97	442	0.101	1	1.90	0.016	0.67	<0.1	0.16	6.2	0.4	<0.05	7	0.5
CAT 67454	Soil	30	37	0.77	453	0.088	1	1.67	0.020	0.36	0.2	0.06	3.9	0.2	<0.05	5	0.6
CAT 67457	Soil	15	94	0.91	532	0.041	2	1.29	0.012	0.15	0.2	0.10	3.8	0.2	0.07	4	1.3
CAT 67458	Soil	15	153	1.39	287	0.065	<1	1.69	0.011	0.18	0.1	0.04	3.9	0.2	<0.05	5	0.7
CAT 67459	Soil	7	87	0.61	1041	0.010	5	1.26	0.014	0.16	0.7	0.57	14.9	0.5	<0.05	4	1.2
CAT 67460	Soil	8	43	0.30	424	0.027	2	0.81	0.014	0.18	0.2	0.16	3.2	0.4	0.08	4	0.9
CAT 67461	Soil	8	273	1.25	681	0.076	2	2.06	0.010	0.35	0.1	0.07	4.8	0.5	0.11	7	1.0
CAT 67463	Soil	14	90	0.64	844	0.028	2	1.46	0.009	0.25	0.1	0.10	9.7	0.5	<0.05	5	0.9
CAT 67468	Soil	24	113	0.90	394	0.034	3	1.82	0.011	0.26	<0.1	0.04	6.1	0.2	<0.05	6	1.3
CAT 67469	Soil	14	43	0.69	705	0.040	2	1.30	0.012	0.27	<0.1	0.06	4.5	0.3	0.06	4	1.8
CAT 67470	Soil	10	31	0.18	340	0.011	2	1.02	0.008	0.09	0.1	0.11	2.3	0.9	<0.05	5	1.3
CAT 67471	Soil	4	18	0.21	101	0.042	<1	0.66	0.014	0.02	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5
CAT 67473	Soil	4	36	0.52	93	0.062	<1	1.15	0.014	0.04	0.1	<0.01	1.4	<0.1	<0.05	3	<0.5
CAT 67474	Soil	5	28	0.66	169	0.092	<1	1.43	0.024	0.07	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5
CAT 67475	Soil	10	29	0.64	436	0.075	<1	1.33	0.019	0.07	0.2	0.02	2.5	<0.1	<0.05	4	<0.5
CAT 67476	Soil	12	35	0.75	456	0.114	3	1.46	0.019	0.11	0.1	0.02	4.0	<0.1	<0.05	4	<0.5
CAT 67478	Soil	12	43	0.65	438	0.093	3	1.45	0.022	0.06	0.2	0.03	4.4	<0.1	<0.05	4	<0.5
CAT 67479	Soil	18	25	0.92	336	0.144	2	1.74	0.017	0.30	0.1	0.02	3.9	<0.1	<0.05	5	<0.5
CAT 67480	Soil	18	23	0.84	344	0.120	2	1.53	0.015	0.25	0.1	0.02	3.6	0.1	<0.05	4	<0.5
CAT 67482	Soil	4	52	1.07	189	0.085	2	1.40	0.017	0.21	<0.1	0.01	6.9	<0.1	<0.05	5	<0.5
CAT 67483	Soil	4	53	1.14	206	0.090	2	1.51	0.021	0.24	<0.1	<0.01	7.1	<0.1	<0.05	5	<0.5
CAT 67484	Soil	4	80	1.19	184	0.122	1	1.56	0.018	0.29	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5
CAT 67485	Soil	7	37	1.18	281	0.161	2	1.80	0.023	0.53	0.2	0.02	4.2	0.1	<0.05	6	<0.5
CAT 67486	Soil	8	31	1.17	276	0.170	1	1.97	0.020	0.40	0.1	0.02	4.8	0.2	<0.05	6	0.5
CAT 67490	Soil	7	48	0.87	197	0.111	1	1.03	0.014	0.29	<0.1	0.01	3.4	<0.1	<0.05	3	<0.5
CAT 67491	Soil	6	34	0.76	180	0.106	<1	1.01	0.016	0.27	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5
CAT 67492	Soil	10	33	0.76	372	0.128	<1	1.34	0.022	0.20	0.1	0.03	5.3	<0.1	<0.05	5	<0.5



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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	2	0.01	0.001
CAT 67494	Soil	0.3	83.9	2.2	29	<0.1	19.4	8.2	136	1.51	2.8	0.3	1.4	1.2	20	<0.1	0.3	<0.1	43	0.38	0.058
CAT 67495	Soil	0.5	84.3	2.8	32	<0.1	14.7	22.5	363	2.14	2.4	0.3	2.4	0.7	18	0.2	0.4	<0.1	52	0.62	0.097
CAT 67496	Soil	0.6	95.7	3.0	74	<0.1	34.1	27.1	1127	4.52	2.0	0.7	5.5	1.1	48	0.1	0.8	<0.1	105	3.39	0.066
CAT 67497	Soil	0.5	54.6	5.5	52	<0.1	23.5	12.0	514	2.56	7.3	0.5	5.4	2.5	49	0.1	0.6	0.1	60	1.41	0.067
CAT 67498	Soil	0.3	41.5	4.5	58	<0.1	19.4	14.4	339	3.10	4.7	0.3	3.2	2.4	27	<0.1	0.4	<0.1	77	0.54	0.056
CAT 67499	Soil	0.3	49.7	2.7	51	<0.1	28.3	13.5	289	2.63	3.4	0.3	2.5	1.7	21	<0.1	0.2	<0.1	74	0.39	0.051
CAT 67500	Soil	0.6	57.1	6.2	44	<0.1	21.1	9.1	223	2.43	7.4	0.8	19.1	3.9	28	0.1	0.7	0.1	56	0.37	0.050



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004097.1

	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
CAT 67494	Soil	4	42	0.64	155	0.085	<1	1.02	0.020	0.09	0.2	0.01	2.8	<0.1	<0.05	3	<0.5
CAT 67495	Soil	3	29	0.68	92	0.041	2	0.88	0.024	0.07	<0.1	0.02	4.9	<0.1	<0.05	3	<0.5
CAT 67496	Soil	5	42	0.96	310	0.019	3	1.33	0.014	0.24	0.2	0.02	18.6	<0.1	<0.05	4	<0.5
CAT 67497	Soil	11	36	0.88	259	0.068	1	1.28	0.030	0.10	0.1	0.06	5.5	<0.1	<0.05	4	<0.5
CAT 67498	Soil	8	49	1.51	207	0.169	2	2.10	0.025	0.31	0.1	0.01	6.2	0.2	<0.05	7	<0.5
CAT 67499	Soil	6	74	1.44	309	0.166	<1	1.79	0.020	0.39	<0.1	0.01	4.3	0.2	<0.05	5	<0.5
CAT 67500	Soil	13	33	0.57	227	0.080	<1	1.40	0.020	0.05	0.1	0.03	5.2	<0.1	<0.05	4	<0.5



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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	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
Pulp Duplicates																				
CAT 60963	Soil	2.0	60.0	6.1	104	<0.1	55.8	13.6	555	3.53	5.3	1.5	1.2	5.6	27	0.3	0.3	0.1	111	0.39
REP CAT 60963	QC	2.0	58.5	6.5	109	<0.1	55.6	13.7	607	3.63	5.5	1.4	1.4	5.3	26	0.3	0.3	0.1	116	0.38
CAT 61132	Soil	0.6	74.5	5.9	61	0.1	22.0	11.0	419	2.06	3.5	0.7	2.5	1.6	40	0.5	0.4	0.1	53	0.79
REP CAT 61132	QC	0.7	77.3	5.6	62	0.1	23.0	11.1	422	2.07	3.7	0.7	1.8	1.6	39	0.4	0.4	<0.1	52	0.78
CAT 61375	Soil	1.8	38.7	13.1	65	0.1	31.5	12.0	324	3.27	7.4	1.3	14.1	7.8	29	0.1	0.5	0.2	73	0.32
REP CAT 61375	QC	1.8	38.6	13.0	66	0.1	31.5	12.1	320	3.30	7.7	1.2	4.9	7.7	29	0.1	0.5	0.2	71	0.32
CAT 61488	Soil	0.2	48.0	8.3	30	<0.1	13.9	6.7	295	1.66	2.3	0.6	2.2	10.8	13	<0.1	0.2	<0.1	45	0.29
REP CAT 61488	QC	0.3	48.3	8.2	28	<0.1	14.4	6.7	307	1.70	2.3	0.6	2.6	10.9	13	<0.1	0.2	<0.1	46	0.31
CAT 67053	Soil	2.5	46.9	10.1	86	0.3	26.9	10.8	297	3.52	13.8	1.0	1.6	3.5	25	0.3	1.3	0.2	98	0.18
REP CAT 67053	QC	2.7	46.6	10.3	86	0.3	28.0	11.0	291	3.51	13.7	1.0	1.7	3.4	26	0.3	1.2	0.2	96	0.18
CAT 67108	Soil	0.7	24.9	9.1	52	<0.1	24.4	9.0	299	2.55	4.5	0.6	3.0	3.6	14	0.1	0.3	0.2	55	0.24
REP CAT 67108	QC	0.7	25.1	9.5	52	<0.1	23.3	8.6	297	2.51	4.3	0.5	2.7	3.5	13	<0.1	0.2	0.2	53	0.22
CAT 67457	Soil	0.8	32.4	16.4	86	0.2	117.9	18.5	827	2.76	119.7	1.2	4.2	2.2	45	0.4	1.4	0.1	51	1.19
REP CAT 67457	QC	0.8	33.4	18.3	82	0.2	117.9	17.7	824	2.67	123.6	1.3	2.4	2.5	46	0.4	1.5	0.1	51	1.22
CAT 67490	Soil	0.1	58.2	1.1	26	<0.1	14.7	9.8	224	1.59	1.4	0.5	1.3	2.0	14	<0.1	0.2	<0.1	47	0.39
REP CAT 67490	QC	0.1	58.1	1.2	28	<0.1	15.0	10.5	230	1.64	1.3	0.4	1.7	1.9	15	<0.1	0.2	<0.1	50	0.40
Reference Materials																				
STD DS7	Standard	22.2	116.3	71.1	418	0.8	61.4	10.5	619	2.49	52.4	5.1	66.3	4.8	74	6.7	6.4	4.8	88	0.94
STD DS7	Standard	21.2	101.0	69.2	418	0.9	62.6	10.2	651	2.51	58.1	4.9	72.2	4.5	62	7.0	5.7	4.6	90	1.05
STD DS7	Standard	22.3	111.7	72.2	422	0.9	59.5	9.5	649	2.48	54.3	5.0	75.3	4.6	80	7.3	6.4	4.9	93	0.98
STD DS7	Standard	20.4	88.3	61.8	374	0.8	56.1	9.1	596	2.29	52.6	4.1	60.3	3.8	56	5.9	4.6	4.1	79	0.93
STD DS7	Standard	19.5	113.5	69.9	413	0.8	53.5	8.8	576	2.27	51.7	5.0	76.5	4.7	80	6.0	6.2	4.9	76	0.91
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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Project: CAT

Report Date: September 21, 2009

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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	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	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 60963	Soil	18	76	0.98	744	0.100	<1	1.76	0.008	0.70	0.1	<0.01	4.8	0.2	<0.05	7	1.1
REP CAT 60963	QC	17	80	1.08	768	0.108	<1	1.87	0.008	0.76	0.1	<0.01	5.1	0.3	<0.05	7	0.9
CAT 61132	Soil	7	35	0.57	382	0.082	2	1.06	0.021	0.15	0.1	0.03	2.8	<0.1	<0.05	4	0.6
REP CAT 61132	QC	7	35	0.57	367	0.080	3	1.06	0.018	0.14	0.1	0.03	2.6	<0.1	<0.05	4	<0.5
CAT 61375	Soil	28	47	0.71	299	0.111	1	1.86	0.014	0.19	0.2	0.03	4.6	0.2	<0.05	6	<0.5
REP CAT 61375	QC	28	46	0.74	299	0.107	2	1.88	0.014	0.19	0.1	0.03	4.4	0.2	<0.05	6	<0.5
CAT 61488	Soil	22	22	0.48	202	0.065	<1	0.95	0.017	0.13	<0.1	0.02	3.5	<0.1	<0.05	3	<0.5
REP CAT 61488	QC	21	22	0.49	207	0.069	<1	0.98	0.018	0.14	<0.1	0.02	3.6	<0.1	<0.05	3	<0.5
CAT 67053	Soil	12	54	0.59	334	0.073	<1	1.86	0.011	0.16	0.1	0.02	3.4	0.2	<0.05	6	0.8
REP CAT 67053	QC	12	52	0.58	349	0.073	<1	1.79	0.011	0.16	0.1	0.02	3.5	0.2	<0.05	6	0.9
CAT 67108	Soil	15	39	0.53	180	0.080	1	1.51	0.014	0.11	0.2	0.02	2.3	<0.1	<0.05	5	<0.5
REP CAT 67108	QC	15	38	0.55	186	0.072	1	1.52	0.012	0.10	0.2	0.02	2.2	0.1	<0.05	5	<0.5
CAT 67457	Soil	15	94	0.91	532	0.041	2	1.29	0.012	0.15	0.2	0.10	3.8	0.2	0.07	4	1.3
REP CAT 67457	QC	15	92	0.92	608	0.040	3	1.34	0.013	0.13	0.2	0.12	4.0	0.2	0.08	4	1.1
CAT 67490	Soil	7	48	0.87	197	0.111	1	1.03	0.014	0.29	<0.1	0.01	3.4	<0.1	<0.05	3	<0.5
REP CAT 67490	QC	7	51	0.92	210	0.120	<1	1.06	0.013	0.32	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5
Reference Materials																	
STD DS7	Standard	13	187	1.04	410	0.126	42	0.99	0.091	0.43	4.2	0.20	2.3	4.3	0.18	5	3.8
STD DS7	Standard	12	178	1.06	429	0.100	41	1.01	0.090	0.48	4.4	0.21	1.9	4.5	0.23	5	3.4
STD DS7	Standard	14	182	1.05	419	0.133	41	1.03	0.089	0.44	4.2	0.21	2.5	4.3	0.21	5	3.9
STD DS7	Standard	11	169	1.02	362	0.085	40	0.98	0.091	0.41	4.2	0.18	1.8	4.3	0.20	4	3.8
STD DS7	Standard	12	155	1.01	371	0.118	39	0.97	0.086	0.42	3.8	0.18	2.5	3.8	0.18	4	3.8
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