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Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://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 07, 2009  
Report Date: August 18, 2009  
Page: 1 of 11

## CERTIFICATE OF ANALYSIS

VAN09003425.1

### CLIENT JOB INFORMATION

Project: PAN  
Shipment ID:  
P.O. Number  
Number of Samples: 300

### 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: Rob McLeod  
Adrian Fleming

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	300	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	300	Dry at 60C			VAN
1DX15	300	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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VAN09003425.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
PAN-47686	Soil	0.6	60.3	7.6	54	<0.1	24.4	14.8	403	3.22	7.2	0.7	2.4	2.8	31	<0.1	0.4	0.1	75	0.26	0.025
PAN-47688	Soil	0.8	29.0	15.8	53	<0.1	23.0	12.6	304	2.96	9.3	0.7	1.4	3.0	33	<0.1	0.4	0.2	69	0.22	0.033
PAN-47689	Soil	0.8	28.4	15.2	47	<0.1	20.9	12.0	304	2.83	6.6	0.7	2.6	3.0	34	<0.1	0.3	0.2	62	0.22	0.032
PAN-47690	Soil	1.0	23.1	8.3	54	<0.1	13.4	10.9	449	3.74	7.0	0.7	0.7	2.7	44	<0.1	0.3	0.2	72	0.26	0.069
PAN-47691	Soil	0.9	25.5	8.6	54	<0.1	22.1	11.1	340	3.33	7.8	1.2	4.8	5.2	30	<0.1	0.4	0.1	70	0.22	0.027
PAN-47692	Soil	0.9	24.5	10.9	53	<0.1	23.5	10.6	323	3.20	8.0	0.6	2.8	4.3	32	<0.1	0.5	0.2	75	0.26	0.038
PAN-47693	Soil	0.6	22.4	16.3	108	<0.1	11.8	12.6	687	4.47	4.1	0.9	1.2	8.1	32	<0.1	0.2	0.1	66	0.19	0.042
PAN-47694	Soil	0.8	52.7	12.2	186	<0.1	43.2	21.7	743	4.95	3.6	2.0	3.0	9.9	178	0.2	0.2	0.2	109	0.55	0.036
PAN-47695	Soil	0.6	44.6	4.7	98	<0.1	18.8	14.4	623	5.22	21.4	1.5	1.0	8.4	9	<0.1	0.2	<0.1	92	0.11	0.034
PAN-47696	Soil	0.8	39.0	4.1	41	<0.1	23.7	13.2	617	4.66	3.4	1.6	<0.5	11.6	32	<0.1	0.2	0.1	78	0.18	0.038
PAN-47697	Soil	1.4	97.6	7.8	77	<0.1	24.0	14.4	424	3.81	7.6	1.0	0.7	5.5	18	<0.1	0.4	0.2	86	0.17	0.042
PAN-47698	Soil	0.7	55.0	7.5	51	<0.1	27.5	16.3	476	5.14	4.4	0.3	0.7	4.0	63	<0.1	0.2	<0.1	109	0.22	0.063
PAN-47683	Soil	0.3	42.5	7.6	126	<0.1	42.1	28.9	849	5.97	1.0	0.2	<0.5	0.4	31	<0.1	<0.1	<0.1	153	0.27	0.013
PAN-47703	Soil	0.5	45.1	3.3	40	<0.1	15.7	14.7	282	2.90	2.8	0.3	0.7	2.3	57	<0.1	0.1	<0.1	65	0.40	0.024
PAN-47707	Soil	0.9	19.8	8.4	43	<0.1	17.0	10.3	308	2.99	7.8	0.4	1.6	2.1	31	<0.1	0.3	0.1	76	0.29	0.066
PAN-47715	Soil	0.6	16.4	5.1	88	<0.1	11.9	12.6	1052	3.85	3.8	0.2	0.6	1.2	31	0.1	0.3	<0.1	70	0.44	0.076
PAN-47718	Soil	0.2	30.8	1.4	60	<0.1	9.9	14.4	417	3.09	0.8	0.2	<0.5	0.5	21	<0.1	0.1	<0.1	77	0.45	0.074
PAN-47721	Soil	0.9	89.7	6.4	78	<0.1	15.7	11.1	511	4.40	6.7	0.4	<0.5	3.8	14	<0.1	0.3	<0.1	90	0.20	0.033
PAN-47722	Soil	0.7	20.6	5.0	84	<0.1	13.7	16.9	892	4.86	3.4	0.3	1.1	1.1	18	<0.1	0.2	<0.1	106	0.31	0.066
PAN-47727	Soil	0.7	24.1	10.7	47	<0.1	15.8	10.2	298	3.12	7.7	0.3	1.8	1.7	17	<0.1	0.3	0.1	77	0.28	0.037
PAN-47728	Soil	0.3	27.0	3.4	45	<0.1	7.4	14.6	425	3.23	2.1	0.3	<0.5	0.9	47	<0.1	0.2	<0.1	85	0.67	0.073
PAN-47729	Soil	0.6	13.9	3.3	64	<0.1	15.5	20.2	411	4.43	5.8	0.2	<0.5	0.9	14	<0.1	0.3	<0.1	103	0.20	0.028
PAN-47733	Soil	0.3	33.2	4.3	63	<0.1	17.3	15.1	462	4.16	3.3	0.5	<0.5	4.0	29	<0.1	0.2	<0.1	85	0.49	0.069
PAN-47734	Soil	0.2	31.6	2.2	32	<0.1	8.7	9.4	263	1.87	2.5	0.1	<0.5	0.7	20	<0.1	0.1	<0.1	47	0.45	0.084
PAN-47735	Soil	0.5	26.8	4.4	82	<0.1	13.9	12.8	373	3.12	4.5	0.2	0.8	1.5	26	<0.1	0.3	<0.1	70	0.42	0.058
PAN-47737	Soil	0.8	17.5	6.7	62	<0.1	20.7	12.5	470	3.37	6.9	0.4	<0.5	2.2	25	<0.1	0.4	0.1	76	0.31	0.040
PAN-47739	Soil	0.7	27.2	5.8	58	<0.1	17.8	14.2	647	3.10	5.2	0.4	2.0	1.7	24	<0.1	0.3	<0.1	80	0.39	0.054
PAN-47740	Soil	0.7	22.6	4.7	55	<0.1	12.9	14.6	325	3.22	5.8	0.2	1.7	1.3	24	<0.1	0.2	<0.1	73	0.26	0.050
PAN-47741	Soil	0.7	18.8	6.4	55	<0.1	18.3	11.8	297	3.30	6.3	0.3	<0.5	1.7	21	<0.1	0.3	0.1	86	0.27	0.034
PAN-47742	Soil	1.3	55.4	15.8	107	<0.1	61.5	22.4	647	5.44	1.7	2.6	<0.5	23.9	13	<0.1	<0.1	0.1	70	0.47	0.059



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Report Date: August 18, 2009

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VAN09003425.1

	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
PAN-47686	Soil	14	41	0.81	276	0.118	<1	2.18	0.016	0.10	0.1	0.02	3.9	0.1	<0.05	6	<0.5
PAN-47688	Soil	10	47	0.70	366	0.078	<1	2.36	0.015	0.05	0.2	0.02	3.5	<0.1	<0.05	5	<0.5
PAN-47689	Soil	12	39	0.61	301	0.085	<1	1.86	0.014	0.05	0.1	0.01	3.1	0.1	<0.05	5	0.5
PAN-47690	Soil	10	29	0.96	263	0.142	<1	2.12	0.011	0.33	0.1	<0.01	4.4	0.1	0.06	8	<0.5
PAN-47691	Soil	16	36	0.76	345	0.097	2	1.95	0.014	0.07	<0.1	0.02	4.6	0.1	<0.05	6	<0.5
PAN-47692	Soil	11	36	0.74	294	0.108	1	2.22	0.017	0.06	0.1	0.01	3.7	<0.1	<0.05	6	<0.5
PAN-47693	Soil	12	27	1.43	210	0.222	1	2.66	0.011	0.61	0.1	<0.01	6.4	0.4	<0.05	10	<0.5
PAN-47694	Soil	36	94	1.94	352	0.317	<1	3.51	0.017	1.05	<0.1	0.01	7.4	0.5	<0.05	10	0.6
PAN-47695	Soil	22	62	2.03	244	0.330	<1	3.12	0.010	1.47	<0.1	<0.01	12.2	0.5	<0.05	14	0.6
PAN-47696	Soil	25	66	1.60	322	0.282	<1	2.73	0.014	1.08	0.1	<0.01	7.5	0.3	<0.05	13	0.5
PAN-47697	Soil	10	37	0.94	322	0.119	<1	2.53	0.012	0.32	<0.1	0.02	5.1	0.2	<0.05	8	<0.5
PAN-47698	Soil	6	84	1.61	312	0.292	<1	2.92	0.012	0.71	<0.1	<0.01	5.3	0.2	<0.05	11	<0.5
PAN-47683	Soil	4	46	3.51	401	0.346	<1	3.13	0.012	1.26	<0.1	<0.01	7.6	0.7	<0.05	13	<0.5
PAN-47703	Soil	14	41	1.18	158	0.193	<1	2.33	0.026	0.10	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
PAN-47707	Soil	9	31	0.53	160	0.094	<1	1.85	0.014	0.06	0.1	0.01	2.6	<0.1	<0.05	6	<0.5
PAN-47715	Soil	5	27	0.71	362	0.134	<1	1.93	0.028	0.16	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5
PAN-47718	Soil	5	32	1.31	509	0.168	<1	1.94	0.029	0.54	<0.1	<0.01	3.4	0.1	<0.05	6	<0.5
PAN-47721	Soil	7	31	0.91	308	0.183	<1	2.36	0.017	0.38	<0.1	0.01	4.0	0.2	<0.05	9	<0.5
PAN-47722	Soil	5	43	1.36	422	0.208	<1	2.59	0.031	0.51	<0.1	<0.01	5.8	0.1	<0.05	11	<0.5
PAN-47727	Soil	6	34	0.68	151	0.079	<1	1.92	0.025	0.08	<0.1	<0.01	3.5	<0.1	<0.05	6	<0.5
PAN-47728	Soil	6	21	1.20	229	0.158	<1	1.75	0.038	0.09	<0.1	<0.01	4.4	<0.1	<0.05	6	<0.5
PAN-47729	Soil	5	19	1.37	350	0.178	<1	3.51	0.011	0.45	<0.1	<0.01	2.5	0.2	<0.05	8	<0.5
PAN-47733	Soil	22	38	1.29	388	0.242	<1	2.13	0.026	0.56	<0.1	<0.01	4.3	0.2	<0.05	8	<0.5
PAN-47734	Soil	3	19	0.65	130	0.087	<1	1.43	0.032	0.07	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5
PAN-47735	Soil	5	27	0.74	221	0.114	<1	2.16	0.031	0.12	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5
PAN-47737	Soil	7	36	0.79	407	0.101	<1	2.31	0.015	0.15	<0.1	<0.01	3.8	<0.1	<0.05	6	<0.5
PAN-47739	Soil	6	34	0.89	365	0.094	<1	2.23	0.026	0.14	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5
PAN-47740	Soil	5	27	1.02	178	0.141	<1	2.26	0.016	0.21	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5
PAN-47741	Soil	6	32	0.86	185	0.094	1	2.29	0.021	0.07	0.1	0.01	3.3	<0.1	<0.05	6	<0.5
PAN-47742	Soil	46	84	1.74	352	0.166	<1	2.98	0.012	0.59	<0.1	<0.01	6.1	0.4	<0.05	12	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		
					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
PAN-47743	Soil				1.4	60.5	15.3	107	<0.1	59.1	22.9	676	5.21	2.0	2.8	<0.5	23.0	13	<0.1	<0.1	0.1	69	0.50	0.061
PAN-47748	Soil				1.1	19.1	6.0	81	<0.1	11.4	9.0	842	3.71	4.1	0.8	<0.5	7.0	14	0.1	0.2	<0.1	56	0.23	0.066
PAN-47759	Soil				0.2	33.8	2.4	71	<0.1	9.8	15.1	764	4.05	1.2	0.3	<0.5	2.0	25	<0.1	0.1	<0.1	81	0.67	0.110
PAN-47687	Soil				0.9	39.9	9.7	64	<0.1	28.6	13.2	377	3.40	9.7	1.6	1.7	4.8	26	<0.1	0.4	0.2	79	0.21	0.025
PAN-47771	Soil				0.6	26.8	7.8	49	<0.1	12.2	12.4	408	3.67	6.0	0.3	<0.5	2.0	15	<0.1	0.4	<0.1	92	0.30	0.057
PAN-47773	Soil				0.6	102.5	118.3	86	<0.1	14.2	16.8	666	5.05	3.5	0.3	<0.5	1.8	36	0.1	0.2	0.3	101	0.41	0.047
PAN-47774	Soil				0.9	15.6	29.2	57	<0.1	12.5	12.6	472	3.56	6.1	0.3	2.6	2.1	16	<0.1	0.4	0.2	72	0.17	0.040
PAN-47775	Soil				0.7	15.7	17.8	77	<0.1	14.0	10.0	651	2.78	5.6	0.2	1.6	1.1	20	0.3	0.4	0.2	71	0.24	0.083
PAN-47791	Soil				0.7	26.1	12.6	49	<0.1	23.8	9.8	345	2.86	8.8	1.0	2.5	4.6	17	<0.1	0.4	0.2	64	0.18	0.024
PAN-47792	Soil				1.0	29.0	12.8	67	<0.1	28.0	12.8	418	3.19	9.5	1.0	3.8	5.4	17	0.1	0.6	0.2	68	0.17	0.031
PAN-47793	Soil				0.8	22.2	15.1	60	<0.1	21.8	10.0	386	2.88	8.8	0.9	2.6	4.9	18	<0.1	0.5	0.2	65	0.18	0.027
PAN-47794	Soil				0.8	25.3	20.2	58	<0.1	21.6	10.4	379	2.95	7.5	1.3	2.5	5.5	24	<0.1	0.5	0.2	66	0.22	0.018
PAN-47795	Soil				0.7	23.9	15.9	58	<0.1	21.8	10.3	389	2.98	7.7	1.2	2.6	4.9	23	<0.1	0.4	0.2	67	0.22	0.025
PAN-47796	Soil				1.2	45.6	36.0	115	<0.1	22.5	19.3	1278	4.09	7.2	0.7	1.5	3.4	68	0.2	0.3	0.3	98	0.26	0.061
PAN-47797	Soil				0.7	25.8	19.4	71	<0.1	19.2	9.5	457	2.79	5.2	0.6	2.5	4.7	25	0.1	0.4	0.2	57	0.21	0.038
PAN-47798	Soil				0.7	23.1	12.8	58	<0.1	20.3	8.7	349	2.74	6.6	0.9	1.9	5.1	39	0.1	0.4	0.2	56	0.36	0.043
PAN-47799	Soil				0.6	23.7	12.7	58	<0.1	19.5	8.5	347	2.61	6.7	0.8	1.8	4.8	36	0.1	0.4	0.2	58	0.37	0.038
PAN-47800	Soil				0.6	19.4	14.0	49	<0.1	16.0	8.4	286	2.45	6.2	0.8	1.4	4.6	26	<0.1	0.3	0.2	55	0.24	0.022
PAN-48000	Soil				1.0	32.7	11.1	57	0.3	24.7	10.9	348	3.12	9.4	1.1	4.4	4.2	18	<0.1	0.8	0.2	69	0.18	0.026
PAN-48002	Soil				1.4	17.4	12.0	74	<0.1	25.3	12.2	631	3.55	11.5	0.6	1.8	3.5	18	0.2	0.7	0.2	76	0.18	0.048
PAN-48003	Soil				1.2	29.0	11.3	63	0.2	23.2	14.7	365	3.36	9.6	0.9	4.2	4.0	13	0.1	0.7	0.2	78	0.14	0.027
PAN-48005	Soil				1.1	20.0	11.1	62	<0.1	22.9	9.9	507	3.27	9.4	0.5	1.3	3.2	18	<0.1	0.6	0.2	77	0.16	0.027
PAN-48007	Soil				0.9	39.5	12.0	83	<0.1	21.5	12.0	531	4.13	8.5	0.6	1.3	2.9	25	0.2	0.5	0.2	97	0.23	0.032
PAN-48008	Soil				0.8	24.7	28.7	78	<0.1	30.4	13.5	485	3.44	9.4	0.7	2.4	5.0	27	0.1	0.5	0.4	71	0.17	0.024
PAN-48010	Soil				0.5	19.7	8.6	40	<0.1	10.4	7.2	355	3.00	6.8	1.4	0.6	4.7	24	<0.1	0.3	0.1	51	0.18	0.016
PAN-48012	Soil				1.0	18.5	33.5	110	0.2	18.4	11.3	1125	3.84	8.5	0.5	1.0	2.8	29	0.3	0.6	0.2	85	0.20	0.052
PAN-48016	Soil				1.3	21.7	11.8	41	<0.1	13.3	7.7	244	3.67	10.4	0.4	1.7	1.9	14	<0.1	0.6	0.2	87	0.13	0.039
PAN-48018	Soil				0.7	140.9	6.4	101	<0.1	24.8	22.8	667	6.38	8.7	1.2	1.7	1.5	25	0.2	0.7	<0.1	130	0.24	0.050
PAN-48019	Soil				1.2	31.4	10.9	72	0.1	24.2	13.5	538	3.45	10.4	0.5	1.6	2.9	20	0.1	0.5	0.2	84	0.19	0.037
PAN-48020	Soil				0.9	43.5	9.4	63	<0.1	25.1	14.5	352	3.31	9.5	0.5	1.5	3.0	25	<0.1	0.5	0.1	79	0.24	0.045



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Project: PAN  
Report Date: August 18, 2009

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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
PAN-47743	Soil	43	87	1.57	330	0.166	<1	3.29	0.013	0.57	<0.1	<0.01	6.1	0.4	<0.05	12	0.5
PAN-47748	Soil	17	20	0.95	334	0.137	<1	2.32	0.011	0.56	<0.1	<0.01	5.8	0.1	<0.05	9	<0.5
PAN-47759	Soil	16	24	1.12	303	0.086	<1	1.96	0.032	0.16	<0.1	<0.01	7.7	<0.1	<0.05	8	0.5
PAN-47687	Soil	18	42	0.69	415	0.094	<1	2.44	0.016	0.07	0.1	0.03	6.4	<0.1	<0.05	6	0.5
PAN-47771	Soil	5	21	0.74	324	0.124	<1	1.95	0.026	0.29	<0.1	<0.01	3.8	0.2	<0.05	6	<0.5
PAN-47773	Soil	5	21	0.92	487	0.132	<1	1.89	0.052	0.33	<0.1	<0.01	6.3	0.2	<0.05	8	<0.5
PAN-47774	Soil	6	28	0.85	554	0.120	<1	2.14	0.018	0.32	<0.1	<0.01	3.4	0.2	<0.05	7	<0.5
PAN-47775	Soil	5	24	0.52	533	0.069	<1	1.65	0.018	0.09	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
PAN-47791	Soil	14	36	0.64	185	0.075	<1	2.34	0.011	0.04	0.1	0.05	4.2	0.1	<0.05	5	0.6
PAN-47792	Soil	14	39	0.63	212	0.063	<1	2.54	0.011	0.05	0.2	0.02	4.0	0.1	<0.05	6	0.7
PAN-47793	Soil	14	34	0.58	224	0.066	2	2.01	0.016	0.04	0.2	0.03	4.0	<0.1	<0.05	5	<0.5
PAN-47794	Soil	24	35	0.59	198	0.077	1	2.07	0.016	0.04	0.1	0.03	5.9	<0.1	<0.05	6	0.8
PAN-47795	Soil	19	36	0.57	205	0.073	<1	2.01	0.013	0.04	0.1	0.03	5.5	<0.1	<0.05	6	<0.5
PAN-47796	Soil	8	42	1.08	177	0.104	<1	2.40	0.021	0.08	0.1	0.01	6.1	0.1	<0.05	9	<0.5
PAN-47797	Soil	10	29	0.52	158	0.080	<1	1.83	0.014	0.07	0.1	0.02	3.8	0.1	<0.05	6	<0.5
PAN-47798	Soil	20	30	0.55	234	0.068	<1	1.64	0.017	0.04	0.1	0.02	4.5	<0.1	<0.05	5	<0.5
PAN-47799	Soil	20	30	0.51	223	0.076	<1	1.58	0.018	0.05	0.1	0.02	4.8	<0.1	<0.05	5	<0.5
PAN-47800	Soil	20	28	0.48	200	0.066	<1	1.71	0.013	0.04	0.2	0.02	4.9	<0.1	<0.05	5	<0.5
PAN-48000	Soil	14	41	0.56	220	0.067	<1	2.20	0.015	0.04	0.2	0.03	5.1	0.1	<0.05	6	0.6
PAN-48002	Soil	9	37	0.55	251	0.066	<1	2.65	0.011	0.06	0.1	0.03	2.8	0.1	<0.05	7	0.5
PAN-48003	Soil	11	39	0.60	182	0.096	<1	2.70	0.016	0.04	0.2	0.03	4.8	0.1	<0.05	7	<0.5
PAN-48005	Soil	9	35	0.54	209	0.065	<1	2.09	0.012	0.05	0.1	0.02	3.2	0.1	<0.05	7	<0.5
PAN-48007	Soil	7	32	0.55	177	0.056	<1	2.13	0.014	0.05	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5
PAN-48008	Soil	11	54	0.72	223	0.081	<1	2.89	0.016	0.05	<0.1	0.02	4.5	0.1	<0.05	7	<0.5
PAN-48010	Soil	14	17	0.80	169	0.070	<1	1.83	0.011	0.14	<0.1	<0.01	6.1	0.1	<0.05	7	1.1
PAN-48012	Soil	10	36	0.60	313	0.082	<1	1.87	0.013	0.06	<0.1	0.03	4.9	0.1	<0.05	9	<0.5
PAN-48016	Soil	9	33	0.44	107	0.076	1	1.88	0.011	0.04	<0.1	0.02	2.5	0.1	<0.05	8	<0.5
PAN-48018	Soil	5	32	0.42	148	0.047	5	1.82	0.014	0.06	<0.1	0.03	12.1	<0.1	<0.05	10	<0.5
PAN-48019	Soil	9	39	0.61	242	0.086	<1	2.44	0.017	0.05	0.1	0.03	3.1	0.1	<0.05	8	<0.5
PAN-48020	Soil	9	35	0.72	257	0.100	<1	2.68	0.015	0.06	0.1	0.02	3.1	0.1	<0.05	7	<0.5



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## CERTIFICATE OF ANALYSIS

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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-48021	Soil	1.0	50.7	36.9	87	<0.1	32.5	16.8	756	3.76	9.9	0.9	2.2	3.9	30	<0.1	0.5	0.3	99	0.21	0.037	
PAN-48030	Soil	1.3	22.7	11.3	57	<0.1	24.2	12.0	386	3.23	11.9	1.0	2.9	4.9	17	0.1	0.6	0.2	64	0.18	0.032	
PAN-48031	Soil	0.9	45.7	8.9	145	<0.1	15.0	8.1	844	4.91	8.6	1.4	1.5	4.4	14	0.1	0.5	0.1	49	0.14	0.023	
PAN-48032	Soil	1.0	47.7	8.7	140	<0.1	14.7	8.3	838	4.76	8.8	1.4	2.2	3.9	14	0.2	0.5	0.1	51	0.14	0.024	
PAN-48034	Soil	1.1	31.6	10.5	62	<0.1	24.9	11.2	437	3.23	10.9	1.1	2.2	4.7	19	<0.1	0.7	0.2	67	0.18	0.031	
PAN-48037	Soil	0.9	25.1	9.8	63	<0.1	29.9	12.6	459	3.17	10.9	1.1	2.4	4.7	20	<0.1	0.7	0.2	70	0.20	0.022	
PAN-48038	Soil	1.1	22.4	10.9	97	<0.1	21.2	11.4	533	3.46	9.5	0.6	1.4	3.3	13	0.1	0.6	0.2	65	0.12	0.031	
PAN-48039	Soil	1.3	16.5	8.0	74	<0.1	14.5	8.6	786	3.40	8.6	0.5	1.4	1.9	11	0.2	0.4	0.2	69	0.12	0.048	
PAN-48040	Soil	1.1	17.4	9.5	109	<0.1	15.9	9.4	795	3.78	7.5	0.6	1.5	3.0	16	0.1	0.5	0.2	58	0.15	0.034	
PAN-48041	Soil	1.1	24.2	7.8	85	<0.1	18.5	7.8	623	3.45	8.4	0.4	1.3	2.7	16	0.2	0.5	0.1	62	0.13	0.028	
PAN-48164	Soil	0.8	17.5	11.3	83	<0.1	28.6	15.6	744	3.92	4.2	0.8	1.1	9.9	20	<0.1	0.2	0.1	62	0.21	0.049	
PAN-48170	Soil	1.1	13.9	10.3	77	<0.1	21.4	14.2	816	3.49	5.4	0.5	1.3	4.4	26	<0.1	0.3	0.1	72	0.31	0.078	
PAN-48181	Soil	0.6	14.5	2.0	88	<0.1	355.4	38.2	506	5.34	2.3	0.3	<0.5	3.9	38	<0.1	<0.1	<0.1	96	0.51	0.115	
PAN-48188	Soil	0.6	23.0	5.4	59	<0.1	47.0	21.2	321	4.68	4.7	0.5	<0.5	5.4	14	<0.1	0.1	<0.1	89	0.24	0.108	
PAN-48193	Soil	0.3	27.4	13.6	72	<0.1	37.1	15.2	447	4.82	3.6	1.3	<0.5	22.4	16	<0.1	0.1	<0.1	55	0.20	0.034	
PAN-48194	Soil	0.4	36.5	10.4	95	<0.1	45.7	22.0	485	5.63	2.5	1.0	1.8	18.3	8	<0.1	0.1	<0.1	55	0.12	0.027	
PAN-48195	Soil	0.8	27.7	8.1	59	<0.1	28.3	12.5	324	3.16	8.2	0.9	1.6	6.3	14	<0.1	0.4	0.2	67	0.16	0.046	
PAN-48190	Soil	0.6	41.8	6.8	53	<0.1	41.2	13.7	411	3.06	9.9	0.6	3.9	5.1	31	<0.1	0.5	0.1	68	0.46	0.076	
PAN-48201	Soil	0.5	19.0	12.9	68	<0.1	25.8	12.8	426	3.48	4.3	0.9	1.0	11.2	18	<0.1	0.1	<0.1	53	0.29	0.070	
PAN-48210	Soil	4.1	49.5	11.9	273	0.5	60.6	17.7	603	2.57	15.7	1.5	<0.5	1.3	53	4.1	0.5	0.2	116	0.42	0.293	
PAN-48214	Soil	2.2	131.8	7.4	122	<0.1	54.8	12.1	386	5.69	4.3	1.5	2.6	6.8	27	<0.1	0.1	0.1	132	1.15	0.437	
PAN-48215	Soil	0.8	61.4	9.2	107	<0.1	45.4	17.3	277	4.74	2.9	2.2	1.2	16.6	18	<0.1	0.1	<0.1	64	0.46	0.179	
PAN-48235	Soil	0.9	26.3	12.1	57	<0.1	21.5	10.1	341	3.30	9.8	1.1	2.5	4.2	17	<0.1	0.5	0.2	68	0.17	0.023	
PAN-48236	Soil	2.0	39.3	14.5	202	<0.1	6.9	6.6	873	4.93	33.1	0.5	2.4	2.5	10	0.3	0.3	0.1	30	0.06	0.035	
PAN-48237	Soil	0.9	22.3	8.4	72	<0.1	25.4	10.5	309	3.61	9.2	0.8	2.3	3.5	19	<0.1	0.4	0.2	82	0.18	0.023	
PAN-48239	Soil	1.0	25.8	9.9	66	<0.1	24.7	10.6	380	3.29	10.7	1.1	3.1	5.4	18	0.1	0.4	0.2	71	0.18	0.045	
PAN-48240	Soil	2.3	51.3	11.4	121	<0.1	37.2	11.4	365	3.87	78.4	1.7	1.0	11.2	21	0.1	0.4	0.2	60	0.25	0.079	
PAN-48241	Soil	1.3	27.1	11.3	67	<0.1	19.6	7.3	233	2.98	13.0	1.0	2.0	1.5	15	0.2	0.3	0.2	63	0.13	0.061	
PAN-48246	Soil	0.8	32.3	8.6	56	<0.1	23.0	12.9	343	3.05	9.4	0.5	5.1	3.1	17	<0.1	0.4	0.1	73	0.16	0.026	
PAN-48248	Soil	0.7	60.6	11.2	64	<0.1	56.3	15.5	344	2.83	3.2	0.3	<0.5	1.2	55	<0.1	<0.1	<0.1	53	0.30	0.018	



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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
PAN-48021	Soil	9	44	1.00	205	0.110	1	2.85	0.013	0.06	0.1	0.03	5.5	0.1	<0.05	10	<0.5
PAN-48030	Soil	14	38	0.55	152	0.068	2	2.42	0.014	0.05	0.2	0.04	4.5	0.1	<0.05	6	<0.5
PAN-48031	Soil	16	23	0.40	158	0.047	<1	2.13	0.011	0.05	0.1	0.02	12.7	0.1	<0.05	10	0.6
PAN-48032	Soil	14	25	0.38	153	0.044	<1	2.29	0.014	0.05	0.1	0.02	12.4	0.1	<0.05	11	0.6
PAN-48034	Soil	16	39	0.59	197	0.074	<1	2.41	0.014	0.05	0.1	0.03	5.2	0.1	<0.05	7	<0.5
PAN-48037	Soil	18	40	0.62	237	0.091	2	2.06	0.017	0.06	0.1	0.03	6.5	<0.1	<0.05	6	<0.5
PAN-48038	Soil	9	36	0.55	171	0.073	<1	2.60	0.012	0.06	<0.1	0.02	4.9	0.1	<0.05	8	<0.5
PAN-48039	Soil	7	28	0.47	108	0.086	<1	1.70	0.011	0.09	0.1	0.02	4.5	<0.1	<0.05	9	<0.5
PAN-48040	Soil	8	25	0.53	206	0.092	<1	2.11	0.011	0.20	0.1	0.02	6.6	0.2	<0.05	10	<0.5
PAN-48041	Soil	7	25	0.60	206	0.076	<1	2.07	0.012	0.06	0.1	0.01	5.1	<0.1	<0.05	9	0.5
PAN-48164	Soil	17	41	0.81	238	0.175	<1	2.06	0.013	0.62	0.1	0.01	3.3	0.4	<0.05	8	<0.5
PAN-48170	Soil	8	41	0.62	274	0.134	<1	2.14	0.016	0.23	0.1	0.01	3.0	0.2	<0.05	8	<0.5
PAN-48181	Soil	40	513	2.90	301	0.299	<1	2.98	0.008	0.78	0.1	<0.01	2.0	0.3	<0.05	14	<0.5
PAN-48188	Soil	8	48	0.98	361	0.301	<1	2.56	0.013	0.94	0.1	<0.01	5.2	0.5	<0.05	9	<0.5
PAN-48193	Soil	55	56	0.97	249	0.226	<1	2.66	0.011	1.23	<0.1	<0.01	4.6	0.6	<0.05	8	<0.5
PAN-48194	Soil	17	60	1.20	271	0.309	<1	3.57	0.009	0.79	<0.1	<0.01	4.1	0.7	<0.05	10	<0.5
PAN-48195	Soil	20	44	0.59	183	0.103	2	2.33	0.016	0.13	0.1	0.03	3.6	0.1	<0.05	6	0.5
PAN-48190	Soil	21	44	0.67	199	0.105	2	1.53	0.029	0.24	0.1	0.04	4.9	0.1	<0.05	4	<0.5
PAN-48201	Soil	13	48	0.74	232	0.178	2	2.15	0.012	0.54	<0.1	<0.01	2.7	0.4	<0.05	7	<0.5
PAN-48210	Soil	7	27	0.15	2740	0.033	<1	1.13	0.012	0.06	0.5	0.03	2.3	<0.1	<0.05	5	2.5
PAN-48214	Soil	21	102	1.56	656	0.109	<1	3.73	0.009	0.82	<0.1	<0.01	7.2	0.4	<0.05	12	1.7
PAN-48215	Soil	61	61	1.15	198	0.100	<1	3.04	0.008	0.54	<0.1	<0.01	4.9	0.6	<0.05	10	0.6
PAN-48235	Soil	17	40	0.56	199	0.087	1	2.60	0.013	0.05	0.1	0.03	6.8	0.1	<0.05	6	<0.5
PAN-48236	Soil	8	11	0.64	197	0.114	2	2.08	0.009	0.56	<0.1	0.02	9.4	0.2	<0.05	10	0.6
PAN-48237	Soil	14	40	0.61	232	0.086	1	2.33	0.013	0.05	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5
PAN-48239	Soil	17	33	0.53	228	0.077	<1	1.88	0.011	0.09	0.1	0.02	4.0	0.1	<0.05	7	<0.5
PAN-48240	Soil	53	30	0.48	326	0.088	2	1.44	0.009	0.42	<0.1	0.01	4.7	0.4	<0.05	5	1.3
PAN-48241	Soil	15	26	0.35	165	0.037	3	1.45	0.011	0.11	<0.1	0.03	2.3	0.1	<0.05	6	0.6
PAN-48246	Soil	8	30	0.70	238	0.090	1	2.47	0.013	0.10	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
PAN-48248	Soil	6	125	1.28	141	0.128	<1	1.88	0.042	0.18	<0.1	<0.01	3.8	0.1	0.20	5	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		
					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
PAN-48253	Soil																							
PAN-48254	Soil																							
PAN-48255	Soil																							
PAN-48256	Soil																							
PAN-48260	Soil																							
PAN-48261	Soil																							
PAN-48262	Soil																							
PAN-48264	Soil																							
PAN-48265	Soil																							
PAN-48266	Soil																							
PAN-48268	Soil																							
PAN-48269	Soil																							
PAN-48270	Soil																							
PAN-48271	Soil																							
PAN-48272	Soil																							
PAN-48273	Soil																							
PAN-48281	Soil																							
PAN-48283	Soil																							
PAN-48279	Soil																							
PAN-48284	Soil																							
PAN-48285	Soil																							
PAN-48286	Soil																							
PAN-48289	Soil																							
PAN-48290	Soil																							
PAN-48292	Soil																							
PAN-48295	Soil																							
PAN-48297	Soil																							
PAN-48324	Soil																							
PAN-48347	Soil																							
PAN-48348	Soil																							





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## CERTIFICATE OF ANALYSIS

VAN09003425.1

	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
PAN-48253	Soil	7	42	1.03	405	0.200	<1	1.91	0.017	0.66	<0.1	<0.01	2.7	0.2	<0.05	6
PAN-48254	Soil	6	26	1.10	446	0.192	<1	2.40	0.025	0.37	<0.1	<0.01	4.1	0.1	<0.05	7
PAN-48255	Soil	7	28	1.09	428	0.205	<1	2.22	0.028	0.68	<0.1	<0.01	4.7	0.2	<0.05	8
PAN-48256	Soil	12	41	0.56	360	0.083	<1	1.97	0.012	0.10	0.1	0.01	5.8	<0.1	<0.05	5
PAN-48260	Soil	5	32	1.22	222	0.193	<1	2.75	0.035	0.09	<0.1	<0.01	4.8	<0.1	<0.05	8
PAN-48261	Soil	9	34	0.57	194	0.110	<1	1.91	0.018	0.07	0.1	<0.01	4.1	<0.1	<0.05	6
PAN-48262	Soil	14	32	0.47	192	0.089	1	1.73	0.013	0.04	<0.1	0.02	4.1	<0.1	<0.05	5
PAN-48264	Soil	10	34	0.52	185	0.064	<1	2.22	0.011	0.05	0.1	0.03	3.2	<0.1	<0.05	6
PAN-48265	Soil	16	35	0.58	242	0.080	<1	1.99	0.016	0.05	<0.1	0.02	4.1	<0.1	<0.05	5
PAN-48266	Soil	11	35	0.54	153	0.084	<1	2.27	0.010	0.05	0.1	0.04	3.8	<0.1	<0.05	7
PAN-48268	Soil	11	31	0.56	191	0.083	1	2.01	0.014	0.04	<0.1	0.02	3.3	<0.1	<0.05	6
PAN-48269	Soil	10	30	0.52	170	0.080	1	1.71	0.015	0.05	<0.1	0.02	3.0	<0.1	<0.05	6
PAN-48270	Soil	12	29	0.70	294	0.063	<1	1.90	0.025	0.06	<0.1	0.01	4.9	<0.1	<0.05	6
PAN-48271	Soil	13	33	0.60	253	0.064	<1	2.08	0.018	0.05	0.1	0.02	4.6	<0.1	<0.05	6
PAN-48272	Soil	14	34	0.62	232	0.084	<1	1.90	0.013	0.07	<0.1	0.03	4.9	<0.1	<0.05	6
PAN-48273	Soil	13	33	0.63	211	0.079	<1	2.08	0.016	0.06	0.1	0.02	4.1	<0.1	<0.05	6
PAN-48281	Soil	14	34	0.58	331	0.082	<1	1.62	0.025	0.05	0.1	0.03	4.9	<0.1	<0.05	5
PAN-48283	Soil	13	33	0.56	230	0.074	<1	1.71	0.016	0.04	<0.1	0.02	3.9	<0.1	<0.05	5
PAN-48279	Soil	13	39	0.67	184	0.089	2	2.04	0.018	0.04	0.1	0.04	5.0	<0.1	<0.05	6
PAN-48284	Soil	9	32	0.54	198	0.069	2	1.67	0.012	0.04	0.2	0.03	3.1	<0.1	<0.05	5
PAN-48285	Soil	10	30	0.51	200	0.056	1	1.67	0.012	0.04	0.1	0.04	2.8	<0.1	<0.05	5
PAN-48286	Soil	9	31	0.51	166	0.073	1	1.44	0.012	0.03	0.2	0.04	3.0	<0.1	<0.05	4
PAN-48289	Soil	12	32	0.49	204	0.074	<1	1.50	0.015	0.06	0.1	0.02	4.7	<0.1	<0.05	4
PAN-48290	Soil	9	27	0.46	181	0.069	<1	1.32	0.014	0.05	0.1	<0.01	2.8	<0.1	<0.05	4
PAN-48292	Soil	13	29	0.49	254	0.064	1	1.50	0.015	0.03	0.1	<0.01	4.1	<0.1	<0.05	4
PAN-48295	Soil	15	32	0.54	253	0.077	<1	1.56	0.021	0.04	0.2	0.01	4.8	<0.1	<0.05	5
PAN-48297	Soil	7	32	0.48	218	0.046	2	2.11	0.010	0.04	0.1	0.01	4.6	<0.1	<0.05	6
PAN-48324	Soil	12	29	0.57	295	0.078	1	1.28	0.027	0.05	0.2	0.01	4.3	<0.1	<0.05	4
PAN-48347	Soil	15	40	0.67	372	0.147	1	1.82	0.010	0.53	0.1	<0.01	4.0	0.3	<0.05	5
PAN-48348	Soil	12	41	0.54	217	0.089	1	2.05	0.008	0.12	0.1	<0.01	4.4	<0.1	<0.05	6



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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 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
PAN-48349	Soil	1.2	14.8	9.0	76	0.1	15.9	10.1	1043	2.58	3.8	0.4	<0.5	2.9	20	0.1	0.3	0.1	57	0.21	0.056
PAN-48350	Soil	1.4	34.1	9.2	105	<0.1	35.8	12.5	309	3.62	17.3	0.9	<0.5	4.6	22	0.1	0.4	0.2	79	0.22	0.049
PAN-48353	Soil	1.1	12.1	8.4	43	<0.1	15.4	8.0	393	2.58	5.6	0.4	<0.5	2.0	21	0.1	0.4	0.1	56	0.27	0.014
PAN-48355	Soil	2.2	58.6	13.9	138	<0.1	39.2	13.4	373	4.26	34.9	1.4	1.0	10.3	82	0.2	0.8	0.2	65	0.35	0.063
PAN-48358	Soil	0.6	54.2	5.9	57	<0.1	17.1	18.8	516	3.64	5.1	0.7	<0.5	12.7	51	<0.1	0.3	<0.1	108	0.54	0.039
PAN-48360	Soil	0.5	60.6	6.3	62	<0.1	19.2	16.7	559	3.50	4.4	0.5	<0.5	2.9	48	<0.1	0.3	<0.1	99	0.52	0.036
PAN-48361	Soil	0.8	47.5	7.5	67	<0.1	21.9	13.3	419	3.19	5.7	1.1	1.3	4.8	59	<0.1	0.4	0.1	81	0.50	0.044
PAN-48362	Soil	0.5	99.2	5.7	44	<0.1	25.9	18.1	701	2.67	3.6	0.4	<0.5	1.6	54	<0.1	0.4	<0.1	77	0.74	0.074
PAN-48366	Soil	1.1	20.9	11.1	64	<0.1	15.6	7.2	367	3.00	5.8	0.7	1.7	2.8	21	0.1	0.4	0.1	55	0.30	0.021
PAN-48373	Soil	0.8	69.5	8.3	119	<0.1	18.6	21.2	979	5.72	4.1	0.7	0.6	3.2	16	<0.1	0.6	0.1	113	0.44	0.088
PAN-48374	Soil	0.6	47.9	5.6	60	0.2	16.3	20.8	659	4.62	5.2	0.3	1.5	1.6	22	0.1	0.4	<0.1	139	0.30	0.046
PAN-48378	Soil	0.8	21.3	8.1	57	<0.1	19.2	9.7	321	3.18	6.9	0.5	0.7	3.0	13	<0.1	0.5	0.1	65	0.14	0.014
PAN-48379	Soil	1.1	15.6	9.6	54	<0.1	16.0	10.4	893	2.94	7.4	0.4	2.8	2.0	12	0.2	0.5	0.2	69	0.14	0.023
PAN-48380	Soil	1.5	55.4	17.2	125	<0.1	38.6	13.3	305	4.02	41.3	1.7	0.8	9.6	22	0.3	1.4	0.1	50	0.22	0.027
PAN-48383	Soil	0.8	16.9	9.9	48	<0.1	17.6	7.2	206	2.78	8.0	0.6	0.9	2.5	18	<0.1	0.3	0.2	66	0.22	0.039
PAN-48384	Soil	1.0	16.6	9.3	42	<0.1	18.4	8.8	237	2.89	8.5	0.4	32.7	2.5	12	<0.1	0.4	0.1	67	0.12	0.021
PAN-48385	Soil	0.5	25.8	8.0	284	<0.1	4.8	5.3	823	3.97	5.6	0.5	<0.5	3.5	10	0.4	0.2	<0.1	31	0.15	0.037
PAN-48375	Soil	0.4	45.1	32.6	84	<0.1	17.1	21.2	814	5.22	7.1	0.5	0.5	3.0	19	<0.1	1.0	0.1	136	0.25	0.023
PAN-48376	Soil	0.6	23.2	6.4	48	<0.1	17.5	10.0	336	2.59	5.9	0.7	1.4	3.0	19	<0.1	0.4	<0.1	62	0.32	0.023
PAN-48377	Soil	1.0	16.7	9.3	58	<0.1	18.4	10.8	501	2.92	6.5	0.3	1.1	1.9	15	0.2	0.5	0.2	72	0.18	0.018
PAN-48389	Soil	1.1	18.2	8.8	49	<0.1	13.1	6.3	239	2.63	7.4	0.5	<0.5	2.5	15	0.1	0.4	0.1	68	0.16	0.017
PAN-48390	Soil	0.9	21.9	8.8	53	<0.1	23.5	10.2	343	2.97	8.8	0.5	0.6	3.5	21	<0.1	0.6	0.1	72	0.20	0.014
PAN-48391	Soil	1.0	23.0	9.3	53	<0.1	19.0	9.0	343	2.67	6.3	0.7	1.6	3.5	23	<0.1	0.4	0.1	69	0.26	0.016
PAN-48393	Soil	0.9	17.6	8.8	48	<0.1	18.2	9.3	304	2.87	7.8	0.4	<0.5	2.0	19	<0.1	0.4	0.1	71	0.21	0.020
PAN-48394	Soil	0.6	27.1	7.3	64	<0.1	17.5	7.2	326	2.87	7.2	0.7	<0.5	3.1	21	<0.1	0.4	0.2	62	0.23	0.022
PAN-48395	Soil	1.2	18.9	8.5	60	0.1	14.4	8.0	559	2.96	8.0	0.3	3.2	2.1	20	<0.1	0.4	0.2	62	0.24	0.021
PAN-48396	Soil	0.6	72.7	4.2	61	<0.1	14.6	18.7	480	4.08	4.1	0.4	1.1	1.2	21	<0.1	0.2	<0.1	127	0.44	0.040
PAN-48397	Soil	0.8	37.9	4.9	66	<0.1	16.2	16.4	623	3.33	4.3	0.3	<0.5	1.0	28	<0.1	0.2	<0.1	91	0.46	0.021
PAN-48398	Soil	0.6	20.6	4.5	76	<0.1	14.8	16.4	460	3.41	4.5	0.3	<0.5	1.0	25	<0.1	0.2	<0.1	98	0.42	0.032
PAN-48399	Soil	0.9	24.9	6.3	73	<0.1	19.4	11.8	496	3.77	7.7	0.5	1.7	2.6	19	<0.1	0.4	0.1	87	0.26	0.050



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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
PAN-48349	Soil	7	23	0.42	433	0.085	<1	1.41	0.013	0.13	<0.1	<0.01	2.8	0.1	<0.05	6	<0.5
PAN-48350	Soil	12	41	0.68	377	0.144	<1	2.07	0.009	0.52	<0.1	<0.01	3.6	0.4	<0.05	6	0.6
PAN-48353	Soil	7	27	0.37	438	0.036	<1	1.54	0.009	0.07	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5
PAN-48355	Soil	23	32	0.51	416	0.041	1	1.34	0.009	0.29	<0.1	0.02	5.3	0.2	<0.05	5	0.5
PAN-48358	Soil	9	22	0.78	297	0.138	<1	1.70	0.032	0.15	<0.1	<0.01	6.3	<0.1	<0.05	6	<0.5
PAN-48360	Soil	11	23	0.76	329	0.145	<1	1.69	0.032	0.19	<0.1	<0.01	7.3	0.1	<0.05	6	<0.5
PAN-48361	Soil	14	29	0.71	300	0.127	<1	1.60	0.027	0.15	0.1	<0.01	6.1	<0.1	<0.05	5	<0.5
PAN-48362	Soil	6	44	0.79	223	0.127	<1	1.35	0.057	0.10	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5
PAN-48366	Soil	13	27	0.44	207	0.045	<1	1.72	0.012	0.05	<0.1	0.01	5.2	0.1	<0.05	5	0.7
PAN-48373	Soil	11	30	1.64	516	0.004	2	2.45	0.007	0.09	<0.1	0.01	12.9	<0.1	<0.05	8	0.8
PAN-48374	Soil	9	19	0.89	454	0.037	2	2.15	0.011	0.05	<0.1	<0.01	14.1	<0.1	<0.05	8	<0.5
PAN-48378	Soil	9	33	0.48	294	0.053	1	1.96	0.011	0.05	0.1	<0.01	4.0	<0.1	<0.05	5	<0.5
PAN-48379	Soil	7	31	0.46	281	0.065	1	1.78	0.012	0.07	<0.1	<0.01	2.6	<0.1	<0.05	6	<0.5
PAN-48380	Soil	32	23	0.28	374	0.018	1	1.07	0.009	0.06	<0.1	0.01	5.3	<0.1	<0.05	2	0.9
PAN-48383	Soil	11	29	0.46	233	0.064	1	1.76	0.016	0.05	0.1	0.02	4.0	<0.1	<0.05	7	<0.5
PAN-48384	Soil	9	32	0.47	186	0.076	<1	1.87	0.010	0.05	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5
PAN-48385	Soil	13	17	1.60	199	0.105	<1	2.56	0.010	0.42	<0.1	<0.01	6.3	0.3	<0.05	9	<0.5
PAN-48375	Soil	5	34	1.58	184	0.020	4	2.76	0.015	0.06	<0.1	<0.01	11.2	<0.1	<0.05	11	0.6
PAN-48376	Soil	13	29	0.47	408	0.054	2	1.39	0.015	0.05	<0.1	0.02	6.4	<0.1	<0.05	4	<0.5
PAN-48377	Soil	7	31	0.48	295	0.058	<1	1.95	0.013	0.06	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5
PAN-48389	Soil	14	28	0.39	314	0.052	<1	1.66	0.009	0.04	0.1	0.01	3.8	<0.1	<0.05	5	<0.5
PAN-48390	Soil	12	41	0.56	250	0.084	<1	2.41	0.012	0.04	<0.1	0.02	4.2	<0.1	<0.05	6	0.7
PAN-48391	Soil	23	35	0.50	309	0.077	<1	2.05	0.013	0.04	<0.1	<0.01	4.9	<0.1	<0.05	6	0.5
PAN-48393	Soil	8	30	0.50	213	0.081	<1	1.86	0.012	0.04	<0.1	0.01	3.6	<0.1	<0.05	6	0.6
PAN-48394	Soil	18	30	0.51	214	0.088	2	1.59	0.014	0.06	0.1	0.02	5.0	<0.1	<0.05	6	<0.5
PAN-48395	Soil	8	29	0.46	225	0.071	1	1.89	0.011	0.05	0.1	0.02	3.7	<0.1	<0.05	7	<0.5
PAN-48396	Soil	5	19	0.97	435	0.128	1	2.13	0.033	0.23	<0.1	<0.01	6.1	<0.1	<0.05	6	<0.5
PAN-48397	Soil	4	44	0.99	402	0.109	1	1.99	0.023	0.21	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5
PAN-48398	Soil	3	33	0.93	360	0.112	1	1.92	0.026	0.18	<0.1	<0.01	4.2	<0.1	<0.05	6	<0.5
PAN-48399	Soil	8	30	0.77	249	0.074	1	2.00	0.013	0.17	0.1	<0.01	4.9	<0.1	<0.05	7	<0.5



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Project: PAN  
Report Date: August 18, 2009

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
PAN-48701	Soil	0.7	20.4	5.9	61	<0.1	17.2	16.7	801	4.44	4.8	0.6	0.9	7.9	22	<0.1	0.2	<0.1	89	0.32
PAN-48702	Soil	1.8	54.4	7.2	124	<0.1	43.5	17.0	566	3.81	12.8	1.3	0.8	12.1	15	0.2	0.2	0.1	91	0.32
PAN-48703	Soil	3.9	156.8	14.3	193	0.2	272.7	50.2	1626	6.64	3.1	1.3	0.7	7.1	38	0.3	<0.1	0.3	143	1.31
PAN-48704	Soil	4.0	94.5	6.6	118	<0.1	175.4	30.2	694	5.45	10.5	1.3	<0.5	5.6	45	0.2	0.1	0.1	167	0.58
PAN-48705	Soil	0.8	45.7	5.4	72	<0.1	286.8	36.2	382	4.57	3.1	0.8	0.8	7.6	34	<0.1	0.1	<0.1	67	0.44
PAN-48708	Soil	0.5	39.5	7.8	92	<0.1	38.4	16.8	312	4.32	5.6	1.1	1.4	13.8	17	<0.1	0.2	<0.1	64	0.19
PAN-48709	Soil	0.7	21.7	8.4	56	<0.1	25.4	11.0	246	3.41	7.0	0.9	1.9	9.1	19	<0.1	0.3	0.1	67	0.22
PAN-48711	Soil	0.5	58.0	7.4	109	<0.1	38.8	18.3	306	4.76	6.8	1.5	0.5	17.9	10	<0.1	0.1	<0.1	40	0.11
PAN-48718	Soil	1.2	32.4	7.4	54	<0.1	39.5	14.0	374	4.21	3.7	0.5	<0.5	5.8	13	<0.1	<0.1	<0.1	76	0.18
PAN-48733	Soil	1.2	26.2	6.7	133	<0.1	9.9	6.9	887	4.09	5.4	0.6	0.6	2.8	13	0.2	0.3	<0.1	35	0.13
PAN-48734	Soil	1.3	25.6	10.0	64	<0.1	21.2	11.7	499	3.31	10.5	1.3	3.2	4.3	17	<0.1	0.5	0.2	68	0.15
PAN-48735	Soil	1.0	25.2	11.2	93	<0.1	16.0	8.4	459	4.27	8.9	0.8	1.2	3.6	14	<0.1	0.3	0.2	50	0.13
PAN-48736	Soil	0.6	23.3	11.1	66	<0.1	22.2	9.1	415	3.19	9.5	0.7	1.3	3.5	19	<0.1	0.4	0.1	59	0.18
PAN-48737	Soil	0.8	24.6	7.7	74	<0.1	19.7	9.2	503	3.59	8.2	1.1	1.4	4.4	18	<0.1	0.4	0.1	58	0.17
PAN-48738	Soil	1.2	18.8	21.2	71	<0.1	15.0	7.1	497	3.16	9.5	0.7	0.5	2.2	15	0.2	0.4	0.2	64	0.17
PAN-48739	Soil	1.1	15.8	16.7	52	<0.1	8.4	3.6	248	2.53	5.2	0.5	2.2	1.5	14	0.2	0.4	0.2	70	0.11
PAN-48740	Soil	1.0	14.9	24.0	72	<0.1	17.1	7.8	404	3.52	8.9	0.6	2.6	2.7	15	0.1	0.4	0.2	66	0.16
PAN-48741	Soil	0.8	29.2	15.8	101	<0.1	23.7	9.0	699	3.53	7.7	1.1	8.8	3.7	31	0.2	0.5	0.2	68	0.33
PAN-48742	Soil	0.7	24.1	13.1	75	<0.1	18.5	8.1	322	3.21	7.5	0.8	2.0	2.6	23	<0.1	0.4	0.2	62	0.27
PAN-48744	Soil	0.7	24.7	13.2	78	0.1	18.8	8.1	365	3.18	6.5	1.0	4.8	2.4	22	0.1	0.4	0.2	62	0.25
PAN-48752	Soil	1.2	15.3	10.2	65	<0.1	14.5	8.7	1081	3.03	8.0	0.5	2.4	2.7	18	0.2	0.3	0.2	75	0.16
PAN-48759	Soil	0.5	18.2	25.8	73	<0.1	11.9	7.2	469	2.52	4.3	0.9	1.0	5.5	19	0.1	0.2	0.2	54	0.22
PAN-48760	Soil	0.7	19.7	16.5	81	<0.1	18.4	8.7	463	2.85	5.5	1.1	2.5	5.0	31	0.2	0.3	0.2	61	0.35
PAN-48762	Soil	0.8	15.2	11.9	69	0.1	16.6	8.0	335	2.49	6.2	0.8	1.2	2.7	24	0.1	0.3	0.2	58	0.27
PAN-48765	Soil	0.9	19.8	14.3	103	<0.1	10.9	10.5	669	3.39	4.8	0.6	2.5	1.7	14	0.3	0.2	0.2	76	0.14
PAN-48766	Soil	0.9	24.9	8.4	69	<0.1	21.9	15.7	358	3.87	8.1	0.4	2.4	1.9	17	0.1	0.4	0.1	98	0.28
PAN-48776	Soil	0.8	22.3	6.7	78	<0.1	11.4	11.3	503	3.72	6.6	0.7	<0.5	5.4	30	<0.1	0.3	<0.1	79	0.33
PAN-48779	Soil	0.2	19.1	2.8	94	<0.1	8.0	15.8	601	3.90	2.9	0.2	0.7	0.7	41	<0.1	0.1	<0.1	104	0.41
PAN-48783	Soil	1.3	23.8	9.5	320	<0.1	11.3	9.1	399	3.80	7.0	1.1	<0.5	6.5	15	0.4	0.3	0.3	63	0.15
PAN-48784	Soil	0.5	55.3	10.6	117	<0.1	16.7	14.0	411	3.51	17.4	0.4	0.9	2.2	24	0.2	0.5	0.2	103	0.39



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**Project:** PAN  
**Report Date:** August 18, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003425.1

	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
PAN-48701	Soil	18	41	1.32	166	0.061	1	2.40	0.010	0.10	<0.1	<0.01	5.9	<0.1	<0.05	10	<0.5
PAN-48702	Soil	31	46	1.12	586	0.149	<1	2.51	0.012	0.71	<0.1	<0.01	3.8	0.4	<0.05	7	<0.5
PAN-48703	Soil	20	215	1.43	1089	0.044	5	1.60	0.012	0.45	<0.1	0.03	10.8	0.6	<0.05	9	0.7
PAN-48704	Soil	16	210	3.09	2782	0.227	2	4.45	0.024	1.26	<0.1	<0.01	8.9	0.5	<0.05	13	1.0
PAN-48705	Soil	27	354	3.52	324	0.172	<1	3.35	0.008	0.76	<0.1	<0.01	4.3	0.6	<0.05	10	<0.5
PAN-48708	Soil	52	46	1.09	262	0.188	1	2.51	0.011	0.72	<0.1	<0.01	4.5	0.5	<0.05	7	<0.5
PAN-48709	Soil	28	37	0.71	222	0.120	2	2.02	0.014	0.28	0.1	<0.01	3.7	0.2	<0.05	7	<0.5
PAN-48711	Soil	35	30	0.53	143	0.090	<1	1.26	0.008	0.59	<0.1	<0.01	4.6	0.4	<0.05	4	<0.5
PAN-48718	Soil	9	70	1.87	379	0.170	2	3.80	0.024	1.16	<0.1	<0.01	5.4	0.6	<0.05	12	<0.5
PAN-48733	Soil	10	15	0.53	201	0.094	2	1.75	0.009	0.29	<0.1	0.01	8.1	0.2	<0.05	8	<0.5
PAN-48734	Soil	20	39	0.53	198	0.077	1	2.47	0.014	0.05	0.1	0.03	5.6	0.1	<0.05	7	0.5
PAN-48735	Soil	13	24	0.65	205	0.083	1	2.28	0.012	0.19	<0.1	0.02	7.5	0.2	<0.05	8	0.5
PAN-48736	Soil	13	29	0.60	200	0.090	<1	1.91	0.013	0.11	<0.1	0.02	5.0	0.1	<0.05	6	<0.5
PAN-48737	Soil	15	30	0.54	237	0.103	1	2.03	0.013	0.16	0.2	0.03	6.5	0.1	<0.05	8	<0.5
PAN-48738	Soil	10	27	0.37	133	0.081	1	1.95	0.012	0.09	0.1	0.02	3.3	<0.1	<0.05	8	<0.5
PAN-48739	Soil	9	19	0.20	137	0.074	<1	1.56	0.010	0.06	<0.1	0.02	2.8	0.1	<0.05	8	<0.5
PAN-48740	Soil	10	29	0.47	120	0.095	2	2.08	0.011	0.08	0.1	0.01	4.1	0.1	<0.05	8	<0.5
PAN-48741	Soil	17	35	0.68	224	0.106	2	2.19	0.017	0.13	0.1	0.02	7.1	0.1	<0.05	7	0.8
PAN-48742	Soil	12	29	0.61	193	0.093	<1	1.96	0.016	0.07	<0.1	0.03	5.1	0.1	<0.05	7	<0.5
PAN-48744	Soil	13	29	0.57	200	0.087	1	1.88	0.013	0.07	0.1	0.04	5.5	0.1	<0.05	7	<0.5
PAN-48752	Soil	11	26	0.31	188	0.072	2	1.74	0.011	0.05	<0.1	<0.01	2.5	<0.1	<0.05	7	<0.5
PAN-48759	Soil	26	22	0.33	166	0.073	<1	1.13	0.010	0.07	0.1	0.01	4.1	<0.1	<0.05	5	<0.5
PAN-48760	Soil	23	29	0.47	234	0.082	1	1.58	0.015	0.08	0.1	0.02	4.4	0.1	<0.05	5	<0.5
PAN-48762	Soil	13	26	0.46	226	0.061	1	1.63	0.016	0.05	0.1	0.03	3.5	<0.1	<0.05	6	<0.5
PAN-48765	Soil	6	19	0.73	136	0.020	<1	2.33	0.009	0.08	<0.1	<0.01	3.5	0.1	<0.05	9	<0.5
PAN-48766	Soil	6	31	0.83	280	0.128	1	3.02	0.018	0.07	<0.1	<0.01	3.2	<0.1	<0.05	8	<0.5
PAN-48776	Soil	18	17	1.07	288	0.151	1	2.00	0.009	0.31	<0.1	<0.01	4.0	0.1	<0.05	8	<0.5
PAN-48779	Soil	2	14	1.49	453	0.248	<1	2.43	0.024	0.90	<0.1	<0.01	3.0	0.2	<0.05	6	<0.5
PAN-48783	Soil	12	19	0.69	171	0.133	<1	1.89	0.010	0.48	<0.1	<0.01	4.9	0.2	<0.05	7	<0.5
PAN-48784	Soil	8	22	0.96	307	0.135	<1	2.04	0.025	0.14	<0.1	<0.01	4.2	<0.1	<0.05	7	<0.5



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**Project:** PAN  
**Report Date:** August 18, 2009

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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 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
PAN-48786	Soil	1.5	18.3	5.3	42	<0.1	21.0	7.3	370	3.34	28.5	0.7	<0.5	4.2	15	<0.1	0.3	0.2	58	0.14	0.026
PAN-48787	Soil	1.8	28.9	11.1	96	<0.1	14.4	10.0	505	4.08	50.5	1.3	0.5	6.5	15	<0.1	0.5	0.1	38	0.28	0.044
PAN-48790	Soil	1.5	53.6	15.8	134	<0.1	41.9	11.4	318	3.92	10.1	1.6	<0.5	19.8	9	0.1	0.5	0.2	59	0.33	0.129
PAN-48791	Soil	1.4	49.9	19.5	149	<0.1	45.4	12.5	247	3.89	17.6	1.5	0.9	13.4	14	<0.1	0.3	0.5	53	0.30	0.100
PAN-48793	Soil	0.6	96.6	4.0	84	<0.1	15.4	29.9	809	6.37	5.6	0.4	2.2	2.0	37	<0.1	0.3	<0.1	199	0.90	0.065
PAN-48794	Soil	1.0	16.9	9.1	46	<0.1	17.6	8.8	260	2.86	9.1	0.8	2.6	2.2	21	<0.1	0.4	0.2	68	0.26	0.060
PAN-48795	Soil	0.6	26.2	9.9	64	<0.1	14.6	12.1	382	3.00	6.3	0.6	1.7	1.1	20	0.2	0.2	0.1	86	0.27	0.067
PAN-48796	Soil	0.6	26.3	11.6	76	<0.1	17.4	9.4	417	3.09	6.2	0.6	1.5	2.5	18	0.1	0.3	0.2	64	0.24	0.058
PAN-48797	Soil	0.5	25.1	11.4	101	<0.1	15.6	10.8	610	3.73	5.6	0.5	1.4	2.6	17	0.1	0.3	0.1	53	0.23	0.054
PAN-48798	Soil	0.7	22.3	11.5	94	<0.1	14.6	9.5	513	3.50	6.3	0.6	1.6	1.7	18	0.1	0.4	0.1	58	0.24	0.071
PAN-48801	Soil	0.4	23.1	10.7	141	<0.1	5.0	2.9	793	4.02	1.3	0.7	<0.5	4.5	37	0.1	0.3	<0.1	11	0.38	0.042
PAN-48802	Soil	0.7	38.7	8.7	45	<0.1	15.6	8.7	249	2.69	6.3	0.7	2.1	0.9	21	0.1	0.3	0.1	65	0.24	0.049
PAN-48805	Soil	1.2	21.2	10.2	86	<0.1	20.7	8.3	343	4.21	8.0	0.6	3.6	3.4	14	0.2	0.6	0.2	66	0.16	0.036
PAN-48807	Soil	0.9	24.5	7.7	156	<0.1	11.9	6.9	745	4.67	8.5	0.7	0.6	3.9	15	0.1	0.6	0.1	41	0.13	0.019
PAN-48808	Soil	0.8	28.0	10.8	72	<0.1	27.0	14.2	570	3.36	10.0	1.2	2.6	4.2	29	<0.1	0.6	0.2	73	0.29	0.030
PAN-48809	Soil	0.8	26.7	9.7	103	<0.1	20.2	9.4	344	3.96	8.3	0.7	1.1	4.5	16	0.1	0.7	0.1	60	0.15	0.019
PAN-48815	Soil	0.8	25.7	15.4	67	<0.1	23.6	9.7	327	3.23	9.5	0.7	3.0	4.0	17	<0.1	0.6	0.2	62	0.15	0.018
PAN-48817	Soil	1.0	36.6	24.2	74	<0.1	19.8	10.3	397	3.33	7.9	0.5	3.1	2.0	30	<0.1	0.6	0.3	77	0.32	0.039
PAN-48818	Soil	0.9	63.3	43.0	143	0.2	18.5	30.7	1659	6.68	6.6	1.0	5.3	2.0	21	<0.1	0.3	0.5	195	0.44	0.060
PAN-48821	Soil	0.7	72.9	23.9	66	<0.1	17.1	26.1	474	3.67	3.9	0.5	0.8	5.0	101	<0.1	0.2	0.2	103	0.43	0.051
PAN-48822	Soil	0.9	39.1	19.8	89	<0.1	19.2	11.9	359	3.39	15.3	0.6	0.9	3.5	43	<0.1	0.5	0.2	79	0.39	0.029
PAN-48824	Soil	0.9	22.6	12.8	55	0.1	26.1	13.7	310	3.02	9.3	0.3	<0.5	2.5	24	<0.1	0.6	0.2	88	0.37	0.022
PAN-48825	Soil	1.0	35.5	9.8	51	<0.1	25.5	12.9	303	3.18	9.7	0.5	1.5	2.6	21	0.1	0.5	0.2	83	0.26	0.038
PAN-48828	Soil	1.2	28.0	9.2	38	<0.1	13.7	9.3	213	2.68	7.7	0.2	2.6	1.3	22	0.1	0.3	0.1	76	0.32	0.035
PAN-48829	Soil	1.0	32.8	9.5	39	<0.1	22.0	13.1	335	2.82	10.8	0.4	<0.5	2.0	25	<0.1	0.5	0.1	81	0.41	0.029
PAN-48854	Soil	0.8	22.2	8.6	55	<0.1	23.1	10.0	355	3.02	9.2	0.8	1.6	2.8	22	<0.1	0.4	0.1	77	0.22	0.028
PAN-48855	Soil	0.9	10.1	6.5	46	<0.1	11.5	7.3	456	2.10	6.4	0.4	<0.5	1.5	34	<0.1	0.8	0.1	54	0.10	0.021
PAN-48857	Soil	0.7	9.4	5.4	37	<0.1	9.5	4.5	184	1.50	4.3	0.7	<0.5	3.1	13	<0.1	0.3	<0.1	37	0.10	0.015
PAN-48871	Soil	0.8	21.1	8.5	53	<0.1	22.7	11.4	393	2.99	9.3	0.9	1.7	3.6	19	<0.1	0.5	0.2	73	0.20	0.030
PAN-48879	Soil	1.0	21.9	7.8	81	<0.1	17.0	14.3	947	3.98	7.2	0.5	<0.5	2.4	29	0.2	0.9	0.1	128	0.26	0.020



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**Project:** PAN  
**Report Date:** August 18, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003425.1

	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
PAN-48786	Soil	8	18	0.16	231	0.011	2	0.87	0.008	0.06	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5
PAN-48787	Soil	27	13	0.39	458	0.066	2	1.57	0.010	0.25	0.1	0.03	6.6	0.2	<0.05	5	0.6
PAN-48790	Soil	43	27	0.57	307	0.159	1	1.59	0.005	0.93	<0.1	<0.01	3.0	0.6	<0.05	5	0.6
PAN-48791	Soil	21	34	0.56	192	0.091	2	1.40	0.008	0.51	<0.1	<0.01	4.2	0.4	<0.05	5	0.9
PAN-48793	Soil	11	14	1.13	123	0.032	2	2.41	0.018	0.06	<0.1	0.04	18.3	<0.1	<0.05	10	0.8
PAN-48794	Soil	12	32	0.51	172	0.072	<1	1.99	0.013	0.04	0.2	0.02	3.4	<0.1	<0.05	6	<0.5
PAN-48795	Soil	9	22	0.73	167	0.095	1	1.74	0.017	0.15	0.1	0.01	3.0	0.1	<0.05	6	<0.5
PAN-48796	Soil	10	26	0.63	135	0.097	2	1.65	0.016	0.12	0.2	0.02	4.5	<0.1	<0.05	6	<0.5
PAN-48797	Soil	9	22	0.76	144	0.133	2	1.99	0.015	0.19	0.1	0.02	5.4	<0.1	<0.05	7	<0.5
PAN-48798	Soil	10	23	0.67	173	0.132	<1	2.05	0.016	0.22	<0.1	0.02	4.1	0.1	<0.05	8	<0.5
PAN-48801	Soil	21	6	0.45	188	0.012	<1	1.68	0.007	0.19	<0.1	0.01	10.3	<0.1	<0.05	9	<0.5
PAN-48802	Soil	11	26	0.51	172	0.072	2	1.69	0.015	0.05	<0.1	0.03	3.2	0.1	<0.05	6	<0.5
PAN-48805	Soil	9	32	0.52	176	0.070	1	2.79	0.010	0.08	0.1	0.02	7.3	0.1	<0.05	10	<0.5
PAN-48807	Soil	10	20	0.40	174	0.113	1	2.07	0.011	0.34	<0.1	0.02	11.2	0.2	<0.05	9	0.6
PAN-48808	Soil	17	40	0.65	266	0.093	2	2.15	0.017	0.06	0.1	0.04	7.1	<0.1	<0.05	6	<0.5
PAN-48809	Soil	14	35	0.47	179	0.053	2	2.75	0.009	0.08	<0.1	0.04	6.3	0.1	<0.05	8	0.5
PAN-48815	Soil	12	35	0.51	216	0.051	1	2.24	0.013	0.06	0.1	0.03	4.7	<0.1	<0.05	6	<0.5
PAN-48817	Soil	8	29	0.70	205	0.091	<1	2.01	0.016	0.08	0.1	0.02	4.6	<0.1	<0.05	7	<0.5
PAN-48818	Soil	11	20	0.64	340	0.005	3	1.77	0.012	0.13	0.1	0.07	29.8	<0.1	<0.05	6	0.7
PAN-48821	Soil	4	28	1.10	352	0.135	<1	2.04	0.036	0.16	0.1	0.02	5.3	<0.1	<0.05	6	<0.5
PAN-48822	Soil	10	31	0.72	534	0.093	<1	2.04	0.023	0.10	0.1	0.02	5.5	0.1	<0.05	6	<0.5
PAN-48824	Soil	8	40	0.57	188	0.079	<1	2.32	0.020	0.04	<0.1	0.01	3.7	<0.1	<0.05	7	<0.5
PAN-48825	Soil	9	36	0.53	202	0.078	<1	2.39	0.017	0.04	0.2	0.02	3.3	<0.1	<0.05	7	<0.5
PAN-48828	Soil	5	22	0.47	106	0.086	<1	1.58	0.032	0.05	0.1	<0.01	2.9	<0.1	<0.05	6	<0.5
PAN-48829	Soil	7	35	0.60	202	0.089	1	1.84	0.032	0.06	0.1	0.01	3.9	<0.1	<0.05	6	<0.5
PAN-48854	Soil	12	40	0.53	208	0.082	1	2.39	0.012	0.04	0.1	0.03	4.5	<0.1	<0.05	7	0.6
PAN-48855	Soil	7	21	0.34	183	0.030	<1	1.74	0.007	0.04	0.1	0.04	2.1	<0.1	<0.05	5	<0.5
PAN-48857	Soil	10	15	0.29	111	0.020	<1	1.23	0.005	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5
PAN-48871	Soil	13	36	0.57	198	0.072	<1	2.22	0.016	0.04	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5
PAN-48879	Soil	10	28	0.47	246	0.040	3	1.94	0.010	0.11	<0.1	0.02	7.2	0.2	<0.05	7	0.6



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Project: PAN  
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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
PAN-48886	Soil	0.4	69.2	6.2	119	<0.1	7.1	20.1	1018	7.17	3.1	0.8	<0.5	1.8	31	<0.1	0.2	<0.1	204	0.32
PAN-48888	Soil	0.9	40.7	7.8	91	<0.1	14.1	15.8	799	4.22	5.2	0.4	<0.5	1.9	43	0.1	0.4	0.1	115	0.47
PAN-48890	Soil	1.3	15.7	9.0	92	<0.1	16.2	11.0	491	3.81	8.4	0.5	0.9	2.3	26	0.2	0.4	0.1	113	0.26
PAN-48891	Soil	0.9	21.6	7.3	93	<0.1	22.6	15.5	809	3.82	5.7	0.6	<0.5	2.9	39	0.3	0.4	0.1	108	0.44
PAN-48892	Soil	0.7	26.9	7.7	71	<0.1	23.6	13.2	407	3.65	7.8	0.5	<0.5	3.3	37	<0.1	0.4	0.1	102	0.35
PAN-48893	Soil	0.9	14.5	8.6	62	<0.1	17.8	9.3	501	2.89	7.5	0.5	<0.5	3.3	42	0.2	0.5	0.1	80	0.55
PAN-48894	Soil	1.5	33.2	13.2	110	<0.1	9.5	12.8	1146	3.68	4.9	0.8	1.0	2.1	26	0.2	0.2	0.2	85	0.27
PAN-48895	Soil	1.5	40.0	15.9	122	<0.1	9.8	14.1	1008	4.12	4.8	0.8	1.4	2.4	29	0.2	0.2	0.3	94	0.27
PAN-48905	Soil	1.3	34.8	8.4	61	<0.1	14.7	8.7	458	3.95	7.3	0.9	5.9	3.0	30	<0.1	0.3	0.1	71	0.24
PAN-48909	Soil	0.8	54.9	12.0	143	<0.1	40.9	12.4	438	4.65	3.5	1.4	1.7	13.5	25	0.1	0.1	0.2	117	0.34
PAN-48913	Soil	1.5	46.9	18.3	169	<0.1	47.6	17.7	843	4.57	5.0	1.6	2.2	11.8	26	0.1	0.2	0.2	81	0.31
PAN-48939	Soil	0.9	17.7	7.8	57	<0.1	13.2	7.8	355	2.80	6.5	0.5	2.0	2.1	14	0.1	0.4	0.2	57	0.16
PAN-48943	Soil	0.8	24.0	6.1	81	<0.1	15.0	11.6	563	3.68	6.7	0.4	1.7	2.3	14	0.1	0.4	0.1	62	0.19
PAN-48945	Soil	0.5	21.5	6.6	58	<0.1	18.9	8.9	379	2.96	6.9	0.6	4.7	4.0	25	<0.1	0.4	0.1	69	0.36
PAN-48947	Soil	0.7	21.6	8.2	65	<0.1	17.1	8.6	396	3.19	8.1	0.9	3.2	3.6	21	<0.1	0.4	0.1	61	0.24
PAN-48948	Soil	1.2	12.6	20.9	53	<0.1	8.4	5.3	414	2.61	6.3	0.4	1.6	1.2	14	0.3	0.3	0.2	57	0.14
PAN-48949	Soil	1.0	37.7	21.3	97	0.2	14.9	6.4	512	2.82	5.4	1.3	1.4	0.8	30	0.6	0.3	0.1	46	0.36
PAN-48954	Soil	0.8	19.3	10.2	55	<0.1	23.9	10.0	254	3.09	10.6	0.6	2.1	3.9	18	<0.1	0.4	0.1	64	0.19
PAN-48955	Soil	0.7	25.3	18.1	71	<0.1	19.8	8.8	311	3.22	8.3	0.5	1.5	2.8	23	<0.1	0.4	0.2	71	0.23
PAN-48961	Soil	1.0	14.0	11.5	65	<0.1	11.9	7.1	352	3.16	7.7	0.4	3.0	2.2	15	0.1	0.4	0.1	60	0.15
PAN-48963	Soil	0.7	24.0	13.9	136	<0.1	18.1	8.3	219	3.09	6.9	0.7	0.7	4.5	17	0.2	0.2	0.2	69	0.23
PAN-48968	Soil	0.6	38.7	5.5	151	<0.1	12.8	8.8	552	4.04	6.2	0.4	<0.5	2.3	10	<0.1	0.3	<0.1	33	0.11
PAN-48970	Soil	0.8	28.1	6.5	99	<0.1	13.2	9.0	498	3.46	6.1	0.7	1.2	3.3	17	<0.1	0.3	0.1	44	0.14
PAN-48983	Soil	0.7	33.4	8.4	89	<0.1	13.6	13.9	1050	3.42	9.3	0.3	1.5	0.9	21	0.3	0.4	0.1	107	0.41
PAN-48984	Soil	0.9	19.4	8.2	77	<0.1	20.2	10.3	383	3.14	7.5	0.4	<0.5	2.7	24	0.2	0.5	0.2	70	0.30
PAN-48986	Soil	0.6	25.9	10.3	77	<0.1	15.5	15.4	943	3.32	8.1	0.3	0.7	1.3	28	0.3	0.5	0.1	93	0.61
PAN-48987	Soil	0.7	24.5	7.5	61	<0.1	17.8	12.2	293	3.08	6.5	0.3	1.5	1.9	17	<0.1	0.3	0.1	91	0.28
PAN-48990	Soil	0.9	24.0	19.2	44	<0.1	22.7	17.2	604	3.14	5.0	0.3	1.1	1.7	35	0.1	0.6	0.2	89	0.56
PAN-48992	Soil	0.9	53.2	13.4	54	<0.1	33.2	16.4	326	3.70	9.9	0.9	1.2	3.1	33	<0.1	0.6	0.2	104	0.48
PAN-49601	Soil	0.6	16.1	12.0	51	<0.1	14.0	6.7	286	2.45	5.6	0.7	1.0	3.7	26	<0.1	0.2	0.1	50	0.24





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**Project:** PAN  
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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
PAN-48886	Soil	18	10	1.53	155	0.238	<1	2.44	0.018	0.40	<0.1	<0.01	15.1	0.4	<0.05	11	0.5
PAN-48888	Soil	6	23	0.82	292	0.121	2	2.12	0.031	0.12	<0.1	0.01	5.1	0.1	<0.05	8	<0.5
PAN-48890	Soil	7	31	0.52	165	0.069	<1	2.10	0.012	0.10	0.1	<0.01	4.8	<0.1	<0.05	7	<0.5
PAN-48891	Soil	9	42	0.67	259	0.086	<1	1.95	0.025	0.14	0.1	<0.01	6.2	<0.1	<0.05	7	<0.5
PAN-48892	Soil	9	43	1.00	144	0.102	<1	1.96	0.016	0.14	<0.1	<0.01	6.3	0.1	<0.05	7	<0.5
PAN-48893	Soil	8	31	0.42	222	0.054	2	1.64	0.010	0.14	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5
PAN-48894	Soil	7	17	0.34	163	0.030	2	1.22	0.012	0.09	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5
PAN-48895	Soil	8	18	0.39	157	0.028	<1	1.29	0.011	0.10	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5
PAN-48905	Soil	17	23	1.04	796	0.107	<1	1.98	0.011	0.23	<0.1	0.01	8.4	0.2	<0.05	7	0.6
PAN-48909	Soil	40	69	0.84	377	0.144	<1	2.23	0.009	0.76	<0.1	<0.01	6.1	0.4	<0.05	10	0.7
PAN-48913	Soil	36	48	0.80	763	0.090	1	2.18	0.009	0.53	0.2	0.06	8.9	0.2	<0.05	7	0.7
PAN-48939	Soil	9	27	0.47	134	0.076	<1	2.02	0.011	0.06	<0.1	0.01	3.8	<0.1	<0.05	7	<0.5
PAN-48943	Soil	6	28	0.62	179	0.098	<1	2.07	0.010	0.17	<0.1	<0.01	5.9	<0.1	<0.05	7	<0.5
PAN-48945	Soil	16	31	0.63	229	0.077	2	1.59	0.014	0.09	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5
PAN-48947	Soil	15	33	0.50	214	0.072	<1	1.87	0.015	0.07	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5
PAN-48948	Soil	8	19	0.24	166	0.059	<1	1.30	0.008	0.09	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5
PAN-48949	Soil	44	25	0.29	345	0.032	<1	1.59	0.010	0.11	0.2	0.05	5.5	<0.1	<0.05	6	0.9
PAN-48954	Soil	11	36	0.51	239	0.053	2	2.31	0.011	0.07	<0.1	0.01	3.9	<0.1	<0.05	6	0.6
PAN-48955	Soil	13	37	0.49	240	0.083	<1	2.37	0.014	0.05	<0.1	0.03	5.7	<0.1	<0.05	7	<0.5
PAN-48961	Soil	7	26	0.32	173	0.032	<1	1.71	0.007	0.04	<0.1	0.01	3.3	0.1	<0.05	6	<0.5
PAN-48963	Soil	9	27	0.62	234	0.141	<1	2.16	0.011	0.35	<0.1	0.02	4.3	0.2	<0.05	6	<0.5
PAN-48968	Soil	5	19	0.66	222	0.177	<1	2.58	0.008	0.54	<0.1	0.01	6.2	0.3	<0.05	8	<0.5
PAN-48970	Soil	9	25	0.51	204	0.149	<1	2.21	0.011	0.31	<0.1	0.02	4.7	0.2	<0.05	7	<0.5
PAN-48983	Soil	5	19	0.62	261	0.084	2	1.87	0.034	0.09	<0.1	0.02	3.9	<0.1	<0.05	7	<0.5
PAN-48984	Soil	9	35	0.50	260	0.060	<1	2.25	0.011	0.06	<0.1	0.01	4.1	<0.1	<0.05	7	<0.5
PAN-48986	Soil	5	23	0.74	342	0.072	1	1.98	0.038	0.07	<0.1	0.01	4.8	<0.1	<0.05	6	<0.5
PAN-48987	Soil	7	28	0.74	212	0.100	<1	2.05	0.022	0.08	<0.1	<0.01	3.3	<0.1	<0.05	6	<0.5
PAN-48990	Soil	6	37	0.63	232	0.080	1	2.17	0.022	0.05	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5
PAN-48992	Soil	11	54	0.80	169	0.127	1	2.68	0.028	0.07	<0.1	0.01	8.7	<0.1	<0.05	7	<0.5
PAN-49601	Soil	21	25	0.45	194	0.074	2	1.62	0.011	0.05	<0.1	0.01	3.4	<0.1	<0.05	6	<0.5



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Project: PAN  
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## CERTIFICATE OF ANALYSIS

VAN09003425.1

	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
PAN-49602	Soil	0.6	20.7	11.7	58	<0.1	18.6	9.9	415	2.92	5.4	0.8	1.0	4.2	29	0.1	0.3	0.1	64	0.32	0.039
PAN-49603	Soil	0.7	15.6	10.0	53	<0.1	15.7	7.6	353	2.73	6.4	0.7	2.3	3.2	28	<0.1	0.3	0.2	62	0.27	0.030
PAN-49604	Soil	0.5	15.6	9.0	54	<0.1	12.4	6.7	259	2.32	4.1	0.8	1.8	3.8	27	<0.1	0.3	0.1	49	0.26	0.033
PAN-49605	Soil	0.5	23.8	9.0	61	<0.1	17.9	7.8	280	2.62	4.9	0.9	1.7	3.9	38	0.1	0.3	0.1	57	0.41	0.054
PAN-49606	Soil	0.4	19.3	7.9	74	<0.1	19.5	8.5	331	2.73	4.5	0.9	0.8	4.0	39	0.1	0.3	0.2	60	0.42	0.068
PAN-49758	Soil	0.5	46.9	4.0	71	<0.1	17.0	20.0	497	4.30	4.9	0.7	0.8	3.0	14	<0.1	0.2	<0.1	125	0.24	0.058
PAN-49759	Soil	0.4	20.5	3.4	59	<0.1	10.3	17.9	302	4.32	3.8	0.5	0.6	1.4	12	<0.1	0.1	<0.1	152	0.27	0.064
PAN-49762	Soil	0.5	47.5	5.2	117	<0.1	10.7	31.9	958	7.02	2.2	0.6	<0.5	2.3	12	<0.1	0.1	<0.1	246	0.20	0.052
PAN-49782	Soil	2.3	45.6	12.2	106	<0.1	29.2	12.0	325	4.06	9.6	1.4	1.0	8.2	15	0.1	0.3	0.2	72	0.18	0.028
PAN-48381	Soil	1.0	13.7	7.8	55	<0.1	4.4	5.2	396	2.40	4.7	0.4	0.6	1.1	9	0.1	0.6	0.1	39	0.10	0.035
PAN-34335	Soil	0.4	14.6	16.8	51	<0.1	12.1	14.7	410	4.11	4.0	0.6	1.0	4.9	22	<0.1	0.2	<0.1	89	0.43	0.091
PAN-42272	Soil	0.6	26.7	6.9	63	<0.1	18.3	14.8	385	3.18	6.5	0.5	<0.5	2.8	47	<0.1	0.3	<0.1	73	0.44	0.033
PAN-42281	Soil	0.8	71.4	12.8	208	<0.1	40.3	18.4	678	4.92	7.8	0.4	2.8	3.0	25	0.2	0.3	0.2	88	0.28	0.030
PAN-42283	Soil	0.4	72.6	12.9	41	<0.1	16.2	14.5	292	2.47	5.9	0.2	1.6	1.1	13	<0.1	0.3	<0.1	72	0.39	0.064
PAN-42284	Soil	0.6	29.4	7.3	69	<0.1	16.1	9.0	263	3.09	6.9	0.8	3.7	2.8	22	<0.1	0.3	0.1	59	0.28	0.026
PAN-42285	Soil	0.8	81.4	3.5	54	<0.1	65.9	21.5	476	3.44	3.0	0.2	1.3	0.9	29	<0.1	0.1	<0.1	95	0.96	0.284
PAN-42286	Soil	0.5	57.4	16.3	69	<0.1	14.0	17.9	844	4.23	4.3	0.2	1.5	0.8	19	<0.1	0.3	0.1	103	0.33	0.026
PAN-42287	Soil	0.5	53.8	4.2	42	<0.1	12.1	12.8	455	2.31	4.6	0.2	1.0	0.8	27	<0.1	0.2	<0.1	55	0.39	0.028
PAN-42288	Soil	0.4	105.4	5.1	72	<0.1	12.9	25.2	1332	4.46	3.9	0.2	1.0	0.6	38	0.1	0.2	<0.1	118	0.69	0.063
PAN-42290	Soil	0.5	123.0	28.0	75	<0.1	15.6	22.6	684	4.49	5.1	0.3	1.8	1.3	36	<0.1	0.3	0.1	124	0.51	0.034
PAN-42291	Soil	0.4	78.1	8.5	54	<0.1	20.2	17.6	503	3.38	6.2	0.3	1.8	1.9	39	<0.1	0.3	0.1	89	0.49	0.018
PAN-42292	Soil	0.2	95.3	3.9	38	<0.1	14.0	17.0	371	3.07	2.5	0.2	2.3	0.5	138	<0.1	0.1	<0.1	80	0.70	0.013
PAN-42294	Soil	0.7	134.6	9.2	128	<0.1	23.2	18.3	786	5.55	5.1	0.8	2.8	11.4	48	<0.1	0.3	0.1	120	0.36	0.020
PAN-42295	Soil	0.4	40.2	6.6	72	<0.1	14.3	16.0	658	4.41	3.2	0.5	0.8	2.2	27	<0.1	0.2	<0.1	85	0.51	0.088
PAN-42296	Soil	0.4	39.3	5.6	88	<0.1	16.8	19.6	782	4.56	3.4	0.6	6.4	3.4	62	0.1	0.2	<0.1	111	4.17	0.077
PAN-42297	Soil	0.4	98.9	104.3	78	<0.1	15.3	16.8	638	3.75	4.5	0.2	2.1	1.3	26	<0.1	0.2	0.3	99	0.41	0.100
PAN-42298	Soil	0.5	21.7	10.1	53	<0.1	10.2	6.7	208	2.44	4.7	0.3	1.5	2.4	52	<0.1	0.2	<0.1	50	0.23	0.011
PAN-42299	Soil	0.4	31.2	15.7	73	<0.1	10.6	12.4	506	3.59	6.2	0.4	1.7	2.3	47	<0.1	0.2	<0.1	71	0.47	0.083
PAN-43023	Soil	0.2	15.2	5.2	72	<0.1	29.9	20.5	431	3.90	3.2	0.4	1.6	1.9	61	<0.1	<0.1	<0.1	86	1.01	0.244
PAN-43024	Soil	0.5	20.3	11.3	53	<0.1	19.3	16.2	489	3.01	5.3	0.3	3.3	2.5	35	<0.1	0.3	0.1	78	0.49	0.041



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**Report Date:** August 18, 2009

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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
PAN-49602	Soil	21	36	0.54	198	0.084	2	1.91	0.012	0.06	0.1	0.01	4.4	<0.1	<0.05	7	<0.5
PAN-49603	Soil	14	30	0.48	192	0.079	2	1.70	0.011	0.05	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
PAN-49604	Soil	18	26	0.43	135	0.078	1	1.34	0.013	0.08	0.1	0.02	4.0	<0.1	<0.05	5	<0.5
PAN-49605	Soil	17	33	0.57	199	0.095	1	1.54	0.020	0.05	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5
PAN-49606	Soil	17	35	0.66	200	0.092	2	1.57	0.018	0.09	0.1	0.02	4.3	<0.1	<0.05	6	<0.5
PAN-49758	Soil	12	27	1.51	434	0.165	2	2.41	0.018	0.52	0.1	0.01	5.7	0.2	<0.05	9	0.6
PAN-49759	Soil	6	26	1.97	442	0.220	1	2.85	0.021	0.68	<0.1	<0.01	5.7	0.1	<0.05	11	<0.5
PAN-49762	Soil	8	22	4.42	419	0.345	1	4.76	0.017	0.63	0.1	<0.01	15.8	0.1	<0.05	21	<0.5
PAN-49782	Soil	24	34	0.53	235	0.102	2	1.87	0.009	0.34	<0.1	<0.01	4.3	0.3	<0.05	7	0.8
PAN-48381	Soil	6	10	0.21	111	0.055	2	1.07	0.012	0.11	<0.1	<0.01	2.5	<0.1	<0.05	6	<0.5
PAN-34335	Soil	13	24	1.03	210	0.139	1	2.25	0.031	0.14	<0.1	<0.01	6.2	<0.1	<0.05	9	<0.5
PAN-42272	Soil	9	31	0.65	286	0.127	3	2.12	0.022	0.13	<0.1	0.01	4.4	<0.1	<0.05	7	<0.5
PAN-42281	Soil	6	69	1.18	592	0.093	<1	2.60	0.030	0.19	0.1	<0.01	6.5	0.1	<0.05	9	<0.5
PAN-42283	Soil	4	22	0.69	230	0.090	<1	1.49	0.056	0.14	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5
PAN-42284	Soil	15	32	0.50	386	0.089	<1	1.69	0.019	0.08	0.1	0.01	7.4	<0.1	<0.05	5	<0.5
PAN-42285	Soil	4	114	1.49	343	0.081	<1	2.01	0.046	0.08	<0.1	<0.01	6.0	<0.1	<0.05	7	<0.5
PAN-42286	Soil	4	18	0.71	532	0.057	<1	1.74	0.035	0.12	<0.1	0.01	7.1	<0.1	<0.05	7	<0.5
PAN-42287	Soil	3	19	0.60	391	0.069	<1	1.34	0.032	0.06	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5
PAN-42288	Soil	2	15	1.59	530	0.105	1	2.22	0.060	0.09	<0.1	<0.01	7.4	<0.1	<0.05	8	<0.5
PAN-42290	Soil	5	18	1.02	452	0.115	<1	1.85	0.041	0.12	0.1	<0.01	9.6	<0.1	<0.05	7	<0.5
PAN-42291	Soil	10	23	0.83	582	0.091	<1	1.61	0.035	0.05	0.1	0.02	7.8	<0.1	<0.05	6	<0.5
PAN-42292	Soil	4	15	1.28	506	0.052	<1	1.55	0.051	0.03	<0.1	0.01	8.8	<0.1	<0.05	5	<0.5
PAN-42294	Soil	24	50	0.85	2711	0.052	<1	1.73	0.013	0.05	0.1	0.03	14.9	<0.1	<0.05	8	0.8
PAN-42295	Soil	13	25	1.02	568	0.133	<1	1.81	0.034	0.24	<0.1	<0.01	7.7	0.1	<0.05	7	<0.5
PAN-42296	Soil	15	24	0.53	695	0.044	4	1.28	0.015	0.15	0.1	0.03	12.1	<0.1	<0.05	6	0.5
PAN-42297	Soil	5	22	0.83	620	0.154	<1	1.51	0.020	0.46	0.1	<0.01	3.6	0.2	<0.05	8	<0.5
PAN-42298	Soil	4	19	0.48	792	0.101	<1	1.39	0.015	0.10	<0.1	<0.01	2.6	<0.1	<0.05	6	<0.5
PAN-42299	Soil	6	22	0.65	1674	0.110	<1	1.46	0.021	0.28	<0.1	<0.01	5.0	0.1	<0.05	7	<0.5
PAN-43023	Soil	7	120	1.58	828	0.168	<1	1.73	0.041	0.34	<0.1	<0.01	6.0	<0.1	<0.05	9	<0.5
PAN-43024	Soil	5	38	0.97	667	0.086	<1	1.72	0.045	0.10	<0.1	<0.01	4.7	<0.1	<0.05	6	<0.5



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**Project:** PAN  
**Report Date:** August 18, 2009

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
PAN-43025	Soil	0.9	11.9	325.1	51	0.1	13.6	9.3	422	2.64	4.9	0.5	2.0	1.7	37	<0.1	0.4	0.8	105	0.32
PAN-43026	Soil	0.5	15.1	28.8	100	<0.1	11.9	11.4	882	3.05	3.2	0.4	<0.5	1.7	38	0.2	0.3	0.2	56	0.46
PAN-43028	Soil	0.5	38.7	10.9	96	<0.1	21.7	14.9	551	4.61	7.1	0.5	1.0	6.9	53	<0.1	0.2	<0.1	121	0.32
PAN-43030	Soil	0.8	11.0	123.0	60	<0.1	13.1	8.2	362	2.82	5.9	0.4	1.3	2.6	110	<0.1	0.3	0.6	67	0.42
PAN-43032	Soil	0.3	46.3	19.2	51	<0.1	23.3	16.4	417	2.84	4.4	0.2	1.8	1.4	55	<0.1	0.2	0.1	60	0.50
PAN-43033	Soil	0.5	37.7	8.6	38	<0.1	30.8	14.8	336	2.22	3.3	0.2	0.6	1.4	70	<0.1	0.2	<0.1	53	0.41
PAN-43034	Soil	0.7	27.2	7.0	57	<0.1	19.2	14.7	540	2.83	4.4	0.5	1.5	1.9	121	<0.1	0.5	0.1	71	0.54
PAN-43441	Soil	0.3	97.8	9.4	57	<0.1	20.6	19.3	579	3.87	4.3	0.3	1.7	1.4	41	<0.1	0.2	<0.1	107	0.58
PAN-44431	Soil	1.5	12.3	10.5	47	<0.1	14.5	6.6	238	3.18	12.6	0.5	6.3	2.9	12	0.1	0.4	0.2	74	0.13
PAN-44441	Soil	1.2	23.8	12.5	53	<0.1	21.6	11.5	309	3.12	8.6	0.8	2.6	4.7	25	<0.1	0.4	0.2	65	0.27
PAN-44442	Soil	1.2	17.5	23.7	55	0.1	17.3	11.4	313	3.66	9.5	0.5	1.7	3.2	17	<0.1	0.4	0.3	79	0.16
PAN-44450	Soil	0.8	31.4	9.6	57	<0.1	23.6	11.2	405	2.93	7.4	0.8	2.6	3.7	26	<0.1	0.4	0.1	66	0.30
PAN-44451	Soil	1.2	40.7	8.9	80	<0.1	25.0	15.9	410	4.09	11.5	0.7	1.8	4.0	15	0.1	0.5	0.2	92	0.21
PAN-44452	Soil	1.0	54.2	22.9	118	<0.1	33.3	10.5	259	3.85	26.5	1.9	1.8	11.1	26	<0.1	0.6	0.2	63	0.23
PAN-44456	Soil	1.4	23.8	9.1	51	<0.1	20.2	12.6	399	3.37	9.5	1.2	2.8	4.1	24	<0.1	0.6	0.2	81	0.24
PAN-44457	Soil	1.2	22.6	12.0	58	0.1	20.1	12.6	444	3.42	9.9	0.7	2.1	3.4	15	<0.1	0.5	0.2	74	0.14
PAN-44465	Soil	0.7	25.0	9.3	81	<0.1	18.9	15.1	579	3.63	7.8	0.3	2.7	1.9	23	<0.1	0.4	0.1	85	0.26
PAN-44470	Soil	0.6	88.7	488.7	64	0.1	22.8	16.6	673	4.36	10.3	0.8	3.7	5.3	27	<0.1	2.0	1.9	72	0.33
PAN-44473	Soil	0.5	28.3	27.0	54	<0.1	25.3	14.4	422	3.19	5.5	0.8	1.1	4.0	28	<0.1	0.3	0.1	77	0.29
PAN-44475	Soil	0.3	32.4	10.5	67	<0.1	11.9	19.1	624	4.14	3.7	0.4	<0.5	2.5	47	<0.1	0.3	<0.1	107	0.39
PAN-44476	Soil	0.5	27.1	7.7	80	<0.1	15.4	16.9	469	3.86	5.0	0.4	<0.5	2.8	24	<0.1	0.2	<0.1	87	0.26
PAN-44477	Soil	0.5	22.1	16.3	60	<0.1	12.4	12.4	422	3.92	3.4	0.7	<0.5	3.9	12	<0.1	0.2	<0.1	60	0.19
PAN-44478	Soil	0.6	22.3	16.3	59	<0.1	11.7	12.8	439	4.15	3.7	0.5	0.6	3.8	13	<0.1	0.2	<0.1	58	0.20
PAN-44479	Soil	1.0	42.5	30.6	119	<0.1	18.1	24.3	784	5.67	3.4	0.2	<0.5	1.0	25	<0.1	0.2	0.1	147	0.28
PAN-44482	Soil	0.3	15.4	2.1	88	<0.1	6.2	15.3	729	4.45	2.2	0.2	<0.5	0.7	42	<0.1	0.1	<0.1	82	0.46
PAN-44483	Soil	0.2	31.7	2.1	70	<0.1	9.4	17.1	455	4.00	2.3	0.2	<0.5	0.9	47	<0.1	0.1	<0.1	99	0.49
PAN-44486	Soil	1.1	15.0	9.8	74	<0.1	16.2	12.0	492	3.80	6.7	0.2	<0.5	1.4	35	<0.1	0.4	0.1	87	0.24
PAN-44490	Soil	0.9	21.5	11.7	46	<0.1	19.6	10.6	236	2.79	8.3	0.5	<0.5	2.7	23	<0.1	0.4	0.1	70	0.22
PAN-44491	Soil	0.3	20.2	5.6	60	<0.1	8.3	14.8	485	4.03	4.1	0.4	<0.5	2.0	33	<0.1	0.6	<0.1	83	0.37
PAN-44679	Soil	6.0	20.5	16.5	103	0.2	19.6	10.0	812	3.33	5.6	0.5	110.0	2.1	18	0.2	0.4	0.2	65	0.25



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**Project:** PAN  
**Report Date:** August 18, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003425.1

	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
PAN-43025	Soil	7	30	0.49	1119	0.073	<1	1.51	0.018	0.07	<0.1	<0.01	3.0	<0.1	<0.05	6	<0.5
PAN-43026	Soil	6	19	0.53	1265	0.096	2	1.73	0.028	0.13	<0.1	0.01	3.0	0.1	<0.05	7	<0.5
PAN-43028	Soil	10	46	1.05	619	0.194	<1	2.02	0.013	0.78	<0.1	<0.01	8.8	0.4	<0.05	10	<0.5
PAN-43030	Soil	7	25	0.48	1150	0.074	<1	1.75	0.015	0.07	0.1	0.01	2.8	<0.1	<0.05	7	<0.5
PAN-43032	Soil	4	64	1.02	272	0.118	<1	1.66	0.020	0.09	<0.1	<0.01	4.4	<0.1	<0.05	6	<0.5
PAN-43033	Soil	4	94	0.87	231	0.073	<1	1.67	0.016	0.05	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5
PAN-43034	Soil	9	53	0.72	278	0.091	1	1.94	0.030	0.06	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5
PAN-43441	Soil	10	19	1.02	509	0.110	<1	1.54	0.044	0.05	<0.1	0.02	9.6	<0.1	<0.05	6	0.6
PAN-44431	Soil	10	35	0.40	107	0.074	<1	1.62	0.015	0.06	0.1	0.02	2.3	<0.1	<0.05	7	<0.5
PAN-44441	Soil	13	42	0.72	285	0.097	1	2.05	0.020	0.06	0.1	0.02	4.9	<0.1	<0.05	7	<0.5
PAN-44442	Soil	10	40	0.70	195	0.101	1	2.36	0.016	0.07	<0.1	0.02	3.9	<0.1	<0.05	8	<0.5
PAN-44450	Soil	17	40	0.73	380	0.094	<1	2.04	0.021	0.06	0.1	0.03	6.3	<0.1	<0.05	6	0.7
PAN-44451	Soil	10	44	0.78	229	0.143	<1	2.85	0.027	0.24	0.1	0.02	5.1	0.2	<0.05	8	<0.5
PAN-44452	Soil	31	34	0.48	425	0.053	1	1.99	0.013	0.29	<0.1	0.03	5.3	0.2	<0.05	6	1.0
PAN-44456	Soil	15	45	0.57	281	0.109	<1	2.36	0.027	0.06	0.2	0.02	6.9	<0.1	<0.05	7	<0.5
PAN-44457	Soil	10	40	0.49	266	0.072	<1	2.59	0.021	0.05	<0.1	0.03	4.2	<0.1	<0.05	8	<0.5
PAN-44465	Soil	6	38	0.78	253	0.129	<1	2.29	0.023	0.16	<0.1	<0.01	3.1	0.1	<0.05	7	<0.5
PAN-44470	Soil	19	36	0.42	736	0.033	1	1.44	0.015	0.06	<0.1	0.12	9.0	<0.1	<0.05	5	0.7
PAN-44473	Soil	20	56	0.95	299	0.144	<1	2.05	0.017	0.07	0.2	0.02	5.5	<0.1	<0.05	6	<0.5
PAN-44475	Soil	7	28	1.45	161	0.252	<1	2.53	0.028	0.19	<0.1	0.02	3.9	0.1	<0.05	8	<0.5
PAN-44476	Soil	7	33	1.07	215	0.225	<1	2.39	0.018	0.32	<0.1	0.02	3.1	0.2	<0.05	7	<0.5
PAN-44477	Soil	8	38	1.04	204	0.219	<1	2.13	0.015	0.51	<0.1	0.01	4.6	0.2	<0.05	8	<0.5
PAN-44478	Soil	9	38	1.05	213	0.228	<1	2.15	0.018	0.52	<0.1	0.02	4.7	0.2	<0.05	8	<0.5
PAN-44479	Soil	5	33	1.98	305	0.205	<1	3.08	0.012	0.58	0.1	0.01	12.5	0.2	<0.05	12	<0.5
PAN-44482	Soil	5	13	1.45	391	0.174	<1	2.41	0.011	0.52	<0.1	<0.01	4.3	0.1	<0.05	7	<0.5
PAN-44483	Soil	11	23	1.74	494	0.318	<1	2.52	0.021	0.58	<0.1	<0.01	3.0	0.1	<0.05	7	<0.5
PAN-44486	Soil	5	31	0.76	182	0.151	<1	2.10	0.018	0.07	<0.1	0.01	3.0	<0.1	<0.05	8	<0.5
PAN-44490	Soil	11	36	0.56	322	0.098	<1	1.90	0.014	0.04	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5
PAN-44491	Soil	19	20	1.19	309	0.104	<1	2.42	0.011	0.16	<0.1	0.02	6.7	0.1	<0.05	7	<0.5
PAN-44679	Soil	9	29	0.38	280	0.052	<1	1.67	0.011	0.09	0.1	0.02	4.4	0.1	<0.05	6	0.5



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Report Date: August 18, 2009

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## QUALITY CONTROL REPORT

VAN09003425.1

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	2	0.01	0.001
Pulp Duplicates																							
PAN-47693	Soil		0.6	22.4	16.3	108	<0.1	11.8	12.6	687	4.47	4.1	0.9	1.2	8.1	32	<0.1	0.2	0.1	66	0.19	0.042	
REP PAN-47693	QC		0.6	24.4	16.5	114	<0.1	12.5	13.4	719	4.57	4.3	0.9	1.0	8.2	31	0.1	0.2	0.1	66	0.20	0.045	
PAN-47742	Soil		1.3	55.4	15.8	107	<0.1	61.5	22.4	647	5.44	1.7	2.6	<0.5	23.9	13	<0.1	<0.1	0.1	70	0.47	0.059	
REP PAN-47742	QC		1.2	60.8	16.9	108	<0.1	62.6	24.7	657	5.59	1.9	2.9	0.6	24.3	13	<0.1	<0.1	0.1	72	0.48	0.061	
PAN-47799	Soil		0.6	23.7	12.7	58	<0.1	19.5	8.5	347	2.61	6.7	0.8	1.8	4.8	36	0.1	0.4	0.2	58	0.37	0.038	
REP PAN-47799	QC		0.7	23.7	12.8	55	<0.1	19.1	8.6	335	2.62	6.3	0.9	1.7	4.9	36	<0.1	0.4	0.1	56	0.37	0.040	
PAN-48020	Soil		0.9	43.5	9.4	63	<0.1	25.1	14.5	352	3.31	9.5	0.5	1.5	3.0	25	<0.1	0.5	0.1	79	0.24	0.045	
REP PAN-48020	QC		0.9	43.5	10.0	62	<0.1	24.9	14.4	344	3.43	9.3	0.5	1.9	2.9	24	<0.1	0.5	0.1	81	0.22	0.044	
PAN-48181	Soil		0.6	14.5	2.0	88	<0.1	355.4	38.2	506	5.34	2.3	0.3	<0.5	3.9	38	<0.1	<0.1	<0.1	96	0.51	0.115	
REP PAN-48181	QC		0.6	12.8	1.8	84	<0.1	346.7	35.8	509	4.98	2.1	0.3	<0.5	3.8	39	<0.1	<0.1	<0.1	98	0.51	0.114	
PAN-48261	Soil		0.9	20.7	7.3	65	<0.1	18.8	13.4	376	3.12	6.0	0.5	<0.5	2.6	55	<0.1	0.4	0.1	80	0.42	0.024	
REP PAN-48261	QC		0.9	20.8	8.2	63	<0.1	20.6	12.4	362	3.24	5.8	0.4	0.6	2.7	56	<0.1	0.4	0.1	84	0.41	0.026	
PAN-48358	Soil		0.6	54.2	5.9	57	<0.1	17.1	18.8	516	3.64	5.1	0.7	<0.5	12.7	51	<0.1	0.3	<0.1	108	0.54	0.039	
REP PAN-48358	QC		0.7	54.0	6.1	55	<0.1	16.3	18.2	510	3.61	4.9	0.7	0.7	13.9	51	<0.1	0.3	<0.1	110	0.57	0.041	
PAN-48375	Soil		0.4	45.1	32.6	84	<0.1	17.1	21.2	814	5.22	7.1	0.5	0.5	3.0	19	<0.1	1.0	0.1	136	0.25	0.023	
REP PAN-48375	QC		0.4	45.3	31.6	83	<0.1	17.0	21.3	818	5.18	7.0	0.5	1.0	2.9	20	<0.1	1.0	0.2	132	0.24	0.022	
PAN-48703	Soil		3.9	156.8	14.3	193	0.2	272.7	50.2	1626	6.64	3.1	1.3	0.7	7.1	38	0.3	<0.1	0.3	143	1.31	0.115	
REP PAN-48703	QC		3.9	148.5	14.1	182	0.2	279.7	48.6	1591	6.53	3.4	1.3	1.3	7.4	40	0.3	<0.1	0.2	145	1.32	0.110	
PAN-48762	Soil		0.8	15.2	11.9	69	0.1	16.6	8.0	335	2.49	6.2	0.8	1.2	2.7	24	0.1	0.3	0.2	58	0.27	0.057	
REP PAN-48762	QC		0.7	15.6	12.0	71	0.1	17.2	8.5	369	2.74	6.5	0.9	0.9	2.7	25	0.1	0.3	0.2	62	0.28	0.059	
PAN-48790	Soil		1.5	53.6	15.8	134	<0.1	41.9	11.4	318	3.92	10.1	1.6	<0.5	19.8	9	0.1	0.5	0.2	59	0.33	0.129	
REP PAN-48790	QC		1.6	61.2	15.8	138	<0.1	42.7	12.6	365	3.96	10.5	1.5	<0.5	19.8	9	<0.1	0.6	0.2	62	0.33	0.125	
PAN-48857	Soil		0.7	9.4	5.4	37	<0.1	9.5	4.5	184	1.50	4.3	0.7	<0.5	3.1	13	<0.1	0.3	<0.1	37	0.10	0.015	
REP PAN-48857	QC		0.7	8.8	5.7	39	<0.1	9.3	4.6	192	1.51	4.7	0.8	<0.5	3.3	13	<0.1	0.3	<0.1	37	0.10	0.015	
PAN-48955	Soil		0.7	25.3	18.1	71	<0.1	19.8	8.8	311	3.22	8.3	0.5	1.5	2.8	23	<0.1	0.4	0.2	71	0.23	0.018	
REP PAN-48955	QC		0.7	24.3	19.0	62	<0.1	18.4	8.7	287	3.26	8.1	0.5	3.8	2.7	21	0.1	0.4	0.2	65	0.22	0.016	
PAN-49605	Soil		0.5	23.8	9.0	61	<0.1	17.9	7.8	280	2.62	4.9	0.9	1.7	3.9	38	0.1	0.3	0.1	57	0.41	0.054	
REP PAN-49605	QC		0.4	24.8	8.4	67	<0.1	18.4	7.5	303	2.60	5.0	0.9	5.4	3.9	40	0.2	0.3	0.1	61	0.42	0.051	



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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																	
PAN-47693	Soil	12	27	1.43	210	0.222	1	2.66	0.011	0.61	0.1	<0.01	6.4	0.4	<0.05	10	<0.5
REP PAN-47693	QC	12	28	1.39	211	0.222	<1	2.47	0.010	0.62	0.1	<0.01	6.4	0.4	<0.05	11	<0.5
PAN-47742	Soil	46	84	1.74	352	0.166	<1	2.98	0.012	0.59	<0.1	<0.01	6.1	0.4	<0.05	12	0.6
REP PAN-47742	QC	50	91	1.82	360	0.173	<1	3.40	0.014	0.60	<0.1	<0.01	6.6	0.5	<0.05	13	0.6
PAN-47799	Soil	20	30	0.51	223	0.076	<1	1.58	0.018	0.05	0.1	0.02	4.8	<0.1	<0.05	5	<0.5
REP PAN-47799	QC	20	29	0.53	227	0.073	<1	1.59	0.017	0.04	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5
PAN-48020	Soil	9	35	0.72	257	0.100	<1	2.68	0.015	0.06	0.1	0.02	3.1	0.1	<0.05	7	<0.5
REP PAN-48020	QC	8	36	0.72	263	0.097	<1	2.70	0.016	0.05	<0.1	0.02	3.1	0.1	<0.05	7	<0.5
PAN-48181	Soil	40	513	2.90	301	0.299	<1	2.98	0.008	0.78	0.1	<0.01	2.0	0.3	<0.05	14	<0.5
REP PAN-48181	QC	37	502	2.79	293	0.298	<1	2.78	0.007	0.84	0.2	<0.01	2.0	0.3	<0.05	12	<0.5
PAN-48261	Soil	9	34	0.57	194	0.110	<1	1.91	0.018	0.07	0.1	<0.01	4.1	<0.1	<0.05	6	<0.5
REP PAN-48261	QC	9	33	0.66	201	0.110	2	1.99	0.016	0.07	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-48358	Soil	9	22	0.78	297	0.138	<1	1.70	0.032	0.15	<0.1	<0.01	6.3	<0.1	<0.05	6	<0.5
REP PAN-48358	QC	9	22	0.76	295	0.143	<1	1.70	0.033	0.15	<0.1	<0.01	6.5	<0.1	<0.05	5	0.6
PAN-48375	Soil	5	34	1.58	184	0.020	4	2.76	0.015	0.06	<0.1	<0.01	11.2	<0.1	<0.05	11	0.6
REP PAN-48375	QC	5	35	1.59	180	0.020	5	2.78	0.015	0.06	<0.1	<0.01	11.1	<0.1	<0.05	11	<0.5
PAN-48703	Soil	20	215	1.43	1089	0.044	5	1.60	0.012	0.45	<0.1	0.03	10.8	0.6	<0.05	9	0.7
REP PAN-48703	QC	20	199	1.47	1110	0.045	5	1.44	0.011	0.47	<0.1	0.04	11.0	0.5	<0.05	9	0.6
PAN-48762	Soil	13	26	0.46	226	0.061	1	1.63	0.016	0.05	0.1	0.03	3.5	<0.1	<0.05	6	<0.5
REP PAN-48762	QC	13	27	0.49	230	0.069	2	1.67	0.016	0.06	0.1	0.03	3.6	0.1	<0.05	6	<0.5
PAN-48790	Soil	43	27	0.57	307	0.159	1	1.59	0.005	0.93	<0.1	<0.01	3.0	0.6	<0.05	5	0.6
REP PAN-48790	QC	43	29	0.59	333	0.178	<1	1.70	0.008	0.89	<0.1	<0.01	3.3	0.6	<0.05	6	0.7
PAN-48857	Soil	10	15	0.29	111	0.020	<1	1.23	0.005	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5
REP PAN-48857	QC	9	17	0.30	115	0.022	<1	1.40	0.007	0.04	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5
PAN-48955	Soil	13	37	0.49	240	0.083	<1	2.37	0.014	0.05	<0.1	0.03	5.7	<0.1	<0.05	7	<0.5
REP PAN-48955	QC	13	35	0.46	237	0.075	1	2.15	0.013	0.04	<0.1	0.03	5.6	<0.1	<0.05	7	<0.5
PAN-49605	Soil	17	33	0.57	199	0.095	1	1.54	0.020	0.05	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5
REP PAN-49605	QC	17	33	0.57	210	0.097	2	1.50	0.016	0.06	0.1	0.02	4.7	<0.1	<0.05	6	<0.5



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## QUALITY CONTROL REPORT

VAN09003425.1

		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
PAN-42285	Soil	0.8	81.4	3.5	54	<0.1	65.9	21.5	476	3.44	3.0	0.2	1.3	0.9	29	<0.1	0.1	<0.1	95	0.96	0.284
REP PAN-42285	QC	0.8	80.2	3.4	53	<0.1	63.5	22.0	457	3.45	2.9	0.2	0.9	0.9	27	<0.1	0.2	<0.1	92	0.93	0.266
PAN-43028	Soil	0.5	38.7	10.9	96	<0.1	21.7	14.9	551	4.61	7.1	0.5	1.0	6.9	53	<0.1	0.2	<0.1	121	0.32	0.030
REP PAN-43028	QC	0.5	40.1	11.5	100	<0.1	20.4	15.1	567	4.66	7.2	0.6	<0.5	7.1	49	<0.1	0.2	<0.1	117	0.33	0.028
PAN-44475	Soil	0.3	32.4	10.5	67	<0.1	11.9	19.1	624	4.14	3.7	0.4	<0.5	2.5	47	<0.1	0.3	<0.1	107	0.39	0.060
REP PAN-44475	QC	0.3	32.8	10.9	70	<0.1	11.3	19.2	640	4.20	3.3	0.4	<0.5	2.5	46	<0.1	0.3	<0.1	112	0.37	0.061
Reference Materials																					
STD DS7	Standard	19.8	102.8	69.2	367	0.8	54.6	9.0	566	2.20	43.8	4.5	62.3	4.2	70	5.7	5.5	3.9	81	0.88	0.067
STD DS7	Standard	20.4	97.8	70.9	380	0.8	55.5	9.3	597	2.37	50.0	5.0	63.6	4.6	73	6.2	5.7	4.7	79	0.89	0.076
STD DS7	Standard	20.5	99.8	72.2	398	0.8	56.1	9.4	622	2.34	52.4	5.0	69.2	4.5	74	6.5	6.1	4.6	82	0.96	0.084
STD DS7	Standard	17.9	98.4	64.8	384	0.8	55.5	8.6	581	2.40	50.1	4.6	66.9	4.1	66	6.5	5.3	4.4	81	0.87	0.074
STD DS7	Standard	20.1	103.7	61.4	395	0.8	54.9	9.8	627	2.39	53.2	4.6	67.5	4.5	72	5.8	5.3	4.4	88	0.95	0.076
STD DS7	Standard	19.1	107.7	63.9	397	0.8	56.0	9.5	647	2.41	48.2	4.8	75.9	4.2	74	6.4	5.2	4.5	85	0.94	0.082
STD DS7	Standard	20.0	103.6	67.5	383	0.7	51.8	9.4	651	2.36	49.2	5.1	52.9	4.6	76	6.1	5.0	4.4	84	0.97	0.074
STD DS7	Standard	19.4	107.8	69.8	375	0.8	51.4	9.6	597	2.25	49.9	5.3	59.7	4.3	79	6.0	5.0	4.4	78	0.95	0.078
STD DS7	Standard	21.5	117.7	62.3	406	0.8	61.1	10.0	618	2.46	49.3	4.4	85.9	3.9	74	6.0	5.6	4.0	83	0.95	0.074
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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Project: PAN  
Report Date: August 18, 2009

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## QUALITY CONTROL REPORT

VAN09003425.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se 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
PAN-42285	Soil	4	114	1.49	343	0.081	<1	2.01	0.046	0.08	<0.1	<0.01	6.0	<0.1	<0.05	7	<0.5
REP PAN-42285	QC	4	120	1.37	338	0.074	<1	1.86	0.041	0.08	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5
PAN-43028	Soil	10	46	1.05	619	0.194	<1	2.02	0.013	0.78	<0.1	<0.01	8.8	0.4	<0.05	10	<0.5
REP PAN-43028	QC	10	45	1.08	633	0.196	<1	2.20	0.013	0.80	0.1	<0.01	8.8	0.4	<0.05	10	<0.5
PAN-44475	Soil	7	28	1.45	161	0.252	<1	2.53	0.028	0.19	<0.1	0.02	3.9	0.1	<0.05	8	<0.5
REP PAN-44475	QC	7	28	1.44	164	0.245	<1	2.61	0.026	0.19	<0.1	<0.01	3.9	0.1	<0.05	7	<0.5
Reference Materials																	
STD DS7	Standard	13	195	0.94	361	0.123	31	0.94	0.084	0.40	3.8	0.18	2.5	3.8	0.19	4	3.6
STD DS7	Standard	13	198	1.01	400	0.115	40	0.97	0.107	0.43	3.8	0.20	2.3	4.1	0.15	5	3.1
STD DS7	Standard	13	197	1.01	408	0.118	40	1.06	0.105	0.45	4.1	0.20	2.4	4.3	0.18	5	3.4
STD DS7	Standard	11	192	1.04	391	0.101	39	0.89	0.092	0.46	3.6	0.18	2.2	4.0	0.19	5	3.2
STD DS7	Standard	14	207	1.01	428	0.118	38	0.99	0.106	0.46	3.9	0.18	2.5	4.2	0.15	5	3.2
STD DS7	Standard	13	228	0.98	391	0.115	35	1.04	0.100	0.41	3.6	0.19	2.4	4.3	0.17	5	3.2
STD DS7	Standard	13	221	0.98	402	0.117	34	1.07	0.096	0.44	3.7	0.18	2.5	4.4	0.21	5	3.5
STD DS7	Standard	14	212	1.02	392	0.117	37	1.08	0.105	0.40	3.7	0.19	2.4	4.2	0.17	5	3.7
STD DS7	Standard	13	216	1.02	386	0.139	33	1.02	0.090	0.44	3.4	0.20	2.4	3.9	0.21	4	4.1
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
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