



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 07, 2009
Report Date: August 19, 2009
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN09003427.1

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: Adrian Fleming
Rob McLeod

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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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
PAN-34334	Soil																							
PAN-42273	Soil																							
PAN-42274	Soil																							
PAN-42280	Soil																							
PAN-42282	Soil																							
PAN-42289	Soil																							
PAN-42293	Soil																							
PAN-43027	Soil																							
PAN-43029	Soil																							
PAN-43031	Soil																							
PAN-44423	Soil																							
PAN-44424	Soil																							
PAN-44425	Soil																							
PAN-44426	Soil																							
PAN-44427	Soil																							
PAN-44429	Soil																							
PAN-44430	Soil																							
PAN-44434	Soil																							
PAN-44435	Soil																							
PAN-44436	Soil																							
PAN-44437	Soil																							
PAN-44438	Soil																							
PAN-44439	Soil																							
PAN-44440	Soil																							
PAN-44442	Soil																							
PAN-44443	Soil																							
PAN-44444	Soil																							
PAN-44445	Soil																							
PAN-44446	Soil																							
PAN-44447	Soil																							



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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-34334	Soil	13	23	0.97	189	0.154	<1	2.16	0.032	0.12	<0.1	0.01	6.4	<0.1	<0.05	8	<0.5
PAN-42273	Soil	8	28	0.96	315	0.212	<1	2.14	0.031	0.09	0.1	<0.01	5.4	<0.1	<0.05	8	<0.5
PAN-42274	Soil	9	31	0.95	389	0.215	<1	2.01	0.043	0.12	<0.1	0.01	5.5	<0.1	<0.05	8	<0.5
PAN-42280	Soil	7	31	1.28	522	0.169	<1	2.21	0.024	0.33	<0.1	<0.01	5.5	0.2	<0.05	11	<0.5
PAN-42282	Soil	3	17	1.11	178	0.117	<1	1.28	0.088	0.18	<0.1	0.01	5.5	<0.1	<0.05	3	0.6
PAN-42289	Soil	4	23	0.91	680	0.095	<1	1.73	0.030	0.07	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-42293	Soil	8	21	1.11	331	0.108	<1	1.83	0.065	0.06	<0.1	0.03	8.2	<0.1	<0.05	7	0.6
PAN-43027	Soil	8	20	0.62	1095	0.127	<1	1.78	0.016	0.20	<0.1	0.02	5.2	0.1	<0.05	7	<0.5
PAN-43029	Soil	7	25	0.62	459	0.115	<1	1.81	0.015	0.09	<0.1	0.01	2.9	<0.1	<0.05	7	<0.5
PAN-43031	Soil	7	32	0.75	606	0.099	<1	1.63	0.011	0.10	<0.1	<0.01	5.3	<0.1	<0.05	7	<0.5
PAN-44423	Soil	21	13	0.17	374	0.006	2	0.70	0.005	0.16	<0.1	0.02	4.0	0.2	<0.05	2	0.6
PAN-44424	Soil	13	35	0.74	255	0.120	<1	2.44	0.018	0.13	<0.1	0.03	6.8	<0.1	<0.05	7	0.6
PAN-44425	Soil	9	38	1.02	272	0.093	<1	2.68	0.020	0.05	<0.1	0.01	9.5	0.1	<0.05	8	0.6
PAN-44426	Soil	6	69	1.57	183	0.080	<1	2.67	0.032	0.04	<0.1	0.02	5.4	<0.1	<0.05	9	<0.5
PAN-44427	Soil	7	69	1.66	187	0.096	<1	2.83	0.034	0.05	<0.1	0.02	5.8	<0.1	<0.05	10	0.5
PAN-44429	Soil	4	28	0.94	307	0.185	<1	2.43	0.045	0.07	<0.1	0.03	3.5	<0.1	<0.05	8	<0.5
PAN-44430	Soil	45	39	0.32	103	0.014	<1	0.87	0.007	0.18	<0.1	0.03	6.8	0.2	<0.05	3	1.3
PAN-44434	Soil	6	23	0.58	102	0.116	<1	1.29	0.027	0.06	<0.1	0.01	3.2	<0.1	<0.05	7	<0.5
PAN-44435	Soil	6	30	1.00	184	0.076	<1	2.76	0.021	0.14	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5
PAN-44436	Soil	7	61	1.10	187	0.149	<1	2.25	0.022	0.19	<0.1	<0.01	4.9	<0.1	<0.05	9	<0.5
PAN-44437	Soil	8	42	0.76	183	0.083	<1	2.27	0.016	0.06	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5
PAN-44438	Soil	7	25	0.76	176	0.134	<1	2.39	0.026	0.11	<0.1	0.02	5.6	<0.1	<0.05	8	0.6
PAN-44439	Soil	24	23	0.54	323	0.018	<1	1.30	0.008	0.04	<0.1	0.02	10.4	<0.1	<0.05	7	<0.5
PAN-44440	Soil	26	27	2.94	711	0.261	<1	4.11	0.023	0.38	<0.1	0.01	21.7	0.2	<0.05	15	1.1
PAN-44442	Soil	8	28	0.91	322	0.197	<1	2.03	0.034	0.09	0.1	0.01	6.3	<0.1	0.05	8	<0.5
PAN-44443	Soil	15	41	0.64	409	0.105	2	1.72	0.022	0.06	0.2	0.03	7.0	<0.1	<0.05	5	<0.5
PAN-44444	Soil	19	44	0.70	499	0.112	1	1.96	0.028	0.05	0.1	0.06	8.3	<0.1	<0.05	6	<0.5
PAN-44445	Soil	15	77	2.08	425	0.323	1	2.85	0.024	0.61	<0.1	0.01	12.0	0.4	<0.05	13	<0.5
PAN-44446	Soil	3	14	1.18	265	0.250	2	2.34	0.035	0.28	<0.1	0.02	6.3	0.1	<0.05	10	<0.5
PAN-44447	Soil	20	44	0.60	217	0.126	1	2.12	0.015	0.25	0.2	0.02	5.4	0.2	<0.05	6	0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
PAN-44448	Soil	0.8	54.7	11.1	93	<0.1	15.7	14.4	655	4.20	4.9	0.6	1.0	3.7	14	<0.1	0.2	<0.1	85	0.24
PAN-44449	Soil	0.7	48.3	9.1	51	<0.1	20.7	11.8	266	2.95	6.1	0.8	2.1	3.3	20	<0.1	0.3	0.1	74	0.24
PAN-44453	Soil	0.3	37.6	2.5	145	<0.1	94.6	26.3	986	4.40	2.2	0.5	1.4	0.9	37	<0.1	0.2	<0.1	117	0.80
PAN-44454	Soil	16.2	28.8	21.1	56	0.2	20.5	9.5	493	3.19	8.4	0.9	3.7	4.1	16	<0.1	1.5	0.6	78	0.19
PAN-44455	Soil	0.8	61.2	9.6	68	<0.1	14.5	17.3	463	4.21	7.2	0.5	<0.5	2.3	15	<0.1	0.4	<0.1	117	0.29
PAN-44458	Soil	0.9	128.5	7.6	390	<0.1	12.8	10.7	847	4.43	67.9	1.0	1.2	4.6	13	0.6	0.8	0.2	59	0.15
PAN-44459	Soil	1.0	49.8	10.2	80	<0.1	35.7	11.6	357	3.39	37.6	1.1	3.4	4.5	26	<0.1	0.7	0.1	72	0.28
PAN-44460	Soil	1.2	76.8	11.6	167	<0.1	55.7	15.9	332	4.64	30.0	1.6	1.0	4.1	15	<0.1	0.2	0.3	90	0.22
PAN-44461	Soil	0.4	9.5	98.4	81	<0.1	10.3	19.0	676	3.87	4.3	0.3	<0.5	1.8	36	<0.1	0.2	0.4	102	0.62
PAN-44462	Soil	0.5	15.0	6.7	105	<0.1	9.3	22.9	994	6.42	4.2	0.2	<0.5	1.4	23	<0.1	0.2	<0.1	164	0.49
PAN-44463	Soil	0.2	25.9	5.8	81	<0.1	11.0	13.5	819	5.25	2.7	0.4	0.6	4.9	22	<0.1	0.3	<0.1	65	0.61
PAN-44464	Soil	0.8	53.5	8.5	61	<0.1	33.8	14.0	419	3.28	8.6	0.3	1.0	1.8	15	0.1	0.4	0.1	74	0.24
PAN-44466	Soil	0.7	27.4	52.2	109	<0.1	14.5	15.5	887	4.75	5.0	0.5	<0.5	3.8	23	0.1	0.3	0.5	79	0.34
PAN-44467	Soil	0.6	12.3	47.8	106	<0.1	14.2	12.3	446	3.39	3.8	0.3	<0.5	0.6	56	0.3	0.3	0.4	77	0.51
PAN-44468	Soil	0.7	23.0	60.9	87	<0.1	18.8	15.5	535	3.50	4.3	0.3	<0.5	1.8	33	0.1	0.3	0.3	92	0.40
PAN-44469	Soil	0.9	17.7	23.0	65	<0.1	21.8	12.9	570	3.50	8.1	0.4	2.2	2.9	25	0.1	0.5	0.2	81	0.34
PAN-44471	Soil	0.8	20.1	15.0	57	<0.1	18.7	14.7	462	3.60	9.7	0.4	1.1	1.9	27	<0.1	0.4	0.1	90	0.28
PAN-44472	Soil	0.5	23.3	6.0	56	<0.1	6.5	15.3	647	3.10	2.7	0.3	0.6	1.9	26	<0.1	<0.1	<0.1	81	0.39
PAN-44474	Soil	0.6	49.2	8.7	94	<0.1	13.5	16.5	907	5.48	3.2	1.1	1.2	6.9	28	<0.1	0.6	<0.1	87	0.51
PAN-44480	Soil	0.7	25.0	6.1	68	<0.1	23.8	14.8	640	4.04	6.0	0.2	1.7	1.7	22	<0.1	0.2	<0.1	90	0.24
PAN-44481	Soil	0.4	45.7	5.8	90	<0.1	11.0	24.9	823	6.19	1.3	0.2	<0.5	0.7	37	<0.1	0.1	<0.1	164	0.30
PAN-44484	Soil	0.2	40.2	1.2	69	<0.1	36.0	18.1	631	3.80	0.9	0.2	<0.5	0.5	82	<0.1	0.1	<0.1	85	0.81
PAN-44485	Soil	1.0	28.3	8.4	60	<0.1	26.2	14.6	521	3.75	8.7	0.5	1.9	3.3	19	<0.1	0.5	0.1	84	0.22
PAN-44487	Soil	0.9	27.0	7.6	88	<0.1	25.2	13.7	521	3.63	6.3	0.4	1.0	2.5	29	0.1	0.4	0.1	85	0.35
PAN-44488	Soil	1.1	15.9	14.4	58	<0.1	14.9	8.9	524	3.42	9.4	0.5	1.2	6.2	13	<0.1	0.5	0.1	74	0.17
PAN-44489	Soil	0.7	62.4	5.3	40	<0.1	14.5	11.3	306	3.31	4.8	0.5	1.2	2.7	25	<0.1	0.3	<0.1	71	0.33
PAN-44668	Soil	0.9	32.3	17.9	43	<0.1	38.4	15.1	375	3.15	7.4	0.3	<0.5	1.5	45	<0.1	0.7	0.2	97	0.56
PAN-44669	Soil	1.0	39.2	27.9	41	0.1	32.2	13.8	242	2.93	8.3	0.4	3.2	2.1	24	<0.1	0.4	0.3	86	0.38
PAN-44670	Soil	0.9	31.3	17.6	45	<0.1	24.0	13.4	315	3.07	9.2	0.4	1.0	2.4	23	<0.1	0.5	0.2	94	0.35
PAN-44671	Soil	2.6	60.9	240.1	117	0.1	7.2	4.8	153	2.62	41.8	0.5	2.9	1.5	12	0.1	0.7	0.3	37	0.12



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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-44448	Soil	8	23	0.67	212	0.175	1	2.08	0.022	0.19	<0.1	0.01	6.6	0.2	<0.05	8	<0.5
PAN-44449	Soil	11	31	0.70	250	0.119	2	1.99	0.015	0.07	0.2	0.02	4.6	0.1	<0.05	6	<0.5
PAN-44453	Soil	5	209	3.12	413	0.123	1	3.06	0.043	0.34	<0.1	0.03	15.6	0.2	<0.05	8	<0.5
PAN-44454	Soil	17	34	0.48	734	0.051	4	1.92	0.013	0.06	<0.1	0.04	5.3	0.1	<0.05	5	<0.5
PAN-44455	Soil	6	22	1.03	210	0.262	<1	2.83	0.032	0.14	<0.1	0.02	5.8	<0.1	<0.05	8	<0.5
PAN-44458	Soil	22	15	1.02	481	0.152	2	2.22	0.011	0.76	<0.1	0.01	9.7	0.3	<0.05	9	0.8
PAN-44459	Soil	19	37	0.53	743	0.077	3	1.66	0.020	0.08	0.1	0.02	7.1	0.2	<0.05	5	<0.5
PAN-44460	Soil	13	50	0.86	379	0.230	3	2.34	0.013	0.93	<0.1	<0.01	6.8	0.7	<0.05	7	0.8
PAN-44461	Soil	6	24	1.35	443	0.234	2	2.27	0.050	0.38	<0.1	<0.01	5.1	0.1	<0.05	8	<0.5
PAN-44462	Soil	7	21	2.40	630	0.355	2	3.82	0.011	0.83	<0.1	<0.01	11.7	0.3	<0.05	13	<0.5
PAN-44463	Soil	24	16	1.31	612	0.108	4	3.04	0.011	0.25	<0.1	0.03	12.2	0.2	<0.05	11	<0.5
PAN-44464	Soil	6	88	1.00	277	0.132	<1	2.19	0.019	0.18	<0.1	0.02	3.5	0.2	<0.05	7	<0.5
PAN-44466	Soil	9	50	1.25	281	0.268	1	2.30	0.023	0.52	<0.1	0.01	6.1	0.3	<0.05	10	<0.5
PAN-44467	Soil	5	20	0.77	222	0.118	1	1.71	0.030	0.05	<0.1	0.02	3.2	<0.1	<0.05	9	<0.5
PAN-44468	Soil	6	38	0.83	435	0.146	<1	2.16	0.024	0.09	<0.1	<0.01	4.4	<0.1	<0.05	8	<0.5
PAN-44469	Soil	8	41	0.61	388	0.090	2	2.15	0.014	0.09	<0.1	<0.01	5.1	<0.1	<0.05	7	<0.5
PAN-44471	Soil	8	34	0.87	140	0.157	3	2.04	0.022	0.09	0.1	0.02	4.3	<0.1	<0.05	7	<0.5
PAN-44472	Soil	5	20	1.06	181	0.281	<1	1.79	0.029	0.44	<0.1	<0.01	2.7	0.1	<0.05	6	<0.5
PAN-44474	Soil	18	32	1.12	677	0.081	2	2.44	0.010	0.46	<0.1	0.07	12.4	0.2	<0.05	9	<0.5
PAN-44480	Soil	7	51	1.16	295	0.224	3	2.54	0.019	0.30	<0.1	0.01	3.7	0.1	<0.05	8	<0.5
PAN-44481	Soil	4	37	1.84	400	0.241	1	3.11	0.018	0.57	<0.1	<0.01	13.0	0.3	<0.05	12	<0.5
PAN-44484	Soil	5	73	1.61	336	0.159	<1	2.30	0.039	0.46	<0.1	<0.01	7.3	0.1	<0.05	7	<0.5
PAN-44485	Soil	10	42	0.73	329	0.146	1	2.47	0.014	0.21	<0.1	0.01	5.9	0.1	<0.05	8	<0.5
PAN-44487	Soil	9	39	0.65	222	0.164	2	2.17	0.025	0.07	<0.1	0.01	3.2	<0.1	<0.05	8	<0.5
PAN-44488	Soil	10	25	0.48	225	0.094	2	1.91	0.014	0.10	<0.1	<0.01	5.0	<0.1	<0.05	8	<0.5
PAN-44489	Soil	12	45	0.80	317	0.173	<1	1.95	0.033	0.25	<0.1	<0.01	4.8	0.1	0.10	6	<0.5
PAN-44668	Soil	7	61	0.68	188	0.116	1	1.97	0.037	0.09	0.1	<0.01	4.5	<0.1	<0.05	6	<0.5
PAN-44669	Soil	8	53	0.62	182	0.109	3	2.01	0.028	0.05	0.1	<0.01	4.0	<0.1	<0.05	6	<0.5
PAN-44670	Soil	8	42	0.58	233	0.094	2	2.07	0.024	0.04	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5
PAN-44671	Soil	3	15	0.21	159	0.011	2	1.06	0.013	0.12	<0.1	0.19	3.1	<0.1	0.11	3	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-44672	Soil	1.4	23.9	15.7	60	<0.1	15.2	9.0	380	3.18	10.4	0.5	1.1	2.4	9	0.2	0.6	0.2	66	0.08	0.025
PAN-44673	Soil	1.0	40.5	11.0	57	<0.1	21.8	9.4	409	3.17	9.9	1.5	3.2	3.6	21	0.2	0.5	0.2	64	0.24	0.025
PAN-44674	Soil	1.7	45.8	13.6	80	0.1	18.1	14.8	511	4.25	6.1	0.7	13.6	3.1	22	0.1	0.4	0.2	100	0.35	0.019
PAN-44675	Soil	1.2	48.3	18.4	235	0.1	16.3	9.5	461	3.64	11.0	0.5	2.3	2.8	14	0.4	0.4	0.2	79	0.14	0.036
PAN-44676	Soil	1.4	28.5	19.0	178	0.2	9.6	8.0	619	2.95	10.3	0.3	2.5	1.6	14	0.6	0.4	0.2	77	0.14	0.030
PAN-44677	Soil	0.8	34.6	18.1	257	0.1	15.2	7.4	404	3.14	11.2	0.6	1.8	2.5	20	0.5	0.5	0.2	58	0.22	0.015
PAN-44678	Soil	0.8	37.3	20.0	289	<0.1	13.4	6.8	406	3.29	11.6	0.6	<0.5	2.4	19	0.5	0.5	0.2	56	0.21	0.016
PAN-44686	Soil	0.7	18.1	7.4	81	<0.1	12.8	7.8	315	3.49	6.4	0.4	2.0	1.6	10	0.1	0.3	<0.1	38	0.14	0.032
PAN-44689	Soil	0.8	33.9	7.2	63	<0.1	24.0	9.8	368	3.06	8.2	0.9	0.7	3.6	25	<0.1	0.5	0.1	65	0.30	0.022
PAN-44690	Soil	1.0	27.8	6.4	92	<0.1	7.9	17.6	790	4.84	5.7	0.2	1.1	0.7	19	0.3	0.6	<0.1	207	0.36	0.030
PAN-44691	Soil	0.9	22.9	7.5	93	<0.1	16.7	10.0	432	3.81	10.7	0.6	1.1	2.9	15	0.1	0.8	0.1	55	0.16	0.024
PAN-44692	Soil	0.6	37.7	6.7	55	<0.1	16.4	12.1	402	3.22	6.4	0.8	2.1	2.3	26	<0.1	0.5	<0.1	96	0.45	0.032
PAN-44693	Soil	1.1	26.1	9.0	75	<0.1	20.3	9.8	481	3.26	8.6	1.1	2.4	4.0	18	<0.1	0.6	0.2	57	0.22	0.022
PAN-44694	Soil	0.8	31.6	8.1	61	<0.1	23.0	8.3	318	2.96	8.6	1.2	2.3	4.3	22	<0.1	0.5	0.1	58	0.24	0.034
PAN-44695	Soil	1.0	22.2	7.1	113	<0.1	11.1	5.6	403	4.17	6.1	0.7	1.7	2.2	8	0.1	0.5	0.1	32	0.09	0.018
PAN-44696	Soil	0.7	36.8	7.0	65	<0.1	25.1	10.1	347	3.11	7.7	0.6	4.1	3.5	30	<0.1	0.5	0.1	69	0.33	0.015
PAN-44697	Soil	1.1	20.8	6.8	70	<0.1	17.0	8.1	344	3.19	8.2	0.4	2.5	1.9	16	0.2	0.4	0.1	57	0.18	0.023
PAN-44698	Soil	1.1	25.2	9.4	62	<0.1	21.7	8.5	309	3.03	10.0	0.9	2.3	4.0	16	0.1	0.5	0.2	65	0.15	0.016
PAN-44699	Soil	0.7	26.9	7.5	54	<0.1	25.0	9.4	277	2.84	10.9	0.8	2.8	3.7	17	0.1	0.5	0.1	69	0.17	0.011
PAN-44700	Soil	0.6	37.8	5.4	35	<0.1	16.9	16.5	243	3.17	7.2	0.2	2.4	1.3	15	<0.1	0.6	<0.1	103	0.41	0.022
PAN-44835	Soil	1.0	16.9	10.5	54	<0.1	17.5	7.7	262	2.90	8.9	0.5	1.7	2.9	22	0.1	0.5	0.1	63	0.12	0.020
PAN-44838	Soil	0.9	18.4	10.9	64	<0.1	23.5	10.2	367	2.96	9.6	0.5	1.3	3.1	36	0.1	0.5	0.2	78	0.16	0.017
PAN-44843	Soil	0.9	17.8	10.5	58	<0.1	17.7	7.8	439	2.92	7.0	0.5	1.9	2.4	51	0.1	0.4	0.2	74	0.26	0.025
PAN-44846	Soil	0.9	17.1	11.0	74	<0.1	17.8	8.6	530	2.82	8.2	0.5	2.5	3.5	23	0.2	0.4	0.2	65	0.25	0.030
PAN-44823	Soil	0.6	22.6	31.2	66	<0.1	21.5	10.3	322	2.80	7.1	0.7	3.4	3.2	70	0.2	0.3	0.2	61	0.21	0.029
PAN-44824	Soil	0.9	22.3	13.6	58	<0.1	16.5	7.8	262	2.70	7.8	0.7	2.6	1.7	51	0.2	0.4	0.2	65	0.15	0.032
PAN-44825	Soil	1.0	14.6	11.4	34	<0.1	11.2	5.2	191	2.28	7.0	0.5	2.8	1.2	18	0.2	0.3	0.2	63	0.15	0.029
PAN-44826	Soil	0.6	25.2	21.3	69	<0.1	30.7	10.8	371	2.89	7.0	0.6	1.9	3.5	15	<0.1	0.4	0.2	60	0.17	0.022
PAN-44827	Soil	1.3	25.9	13.6	64	<0.1	21.1	9.3	420	2.86	9.6	1.3	4.7	4.5	40	<0.1	0.6	0.2	67	0.16	0.030
PAN-44828	Soil	0.7	27.6	11.8	57	<0.1	23.1	9.2	358	2.79	8.1	1.0	2.6	4.4	25	<0.1	0.4	0.2	67	0.17	0.016



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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-44672	Soil	6	27	0.37	184	0.040	<1	1.60	0.008	0.06	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
PAN-44673	Soil	19	39	0.46	344	0.060	<1	1.76	0.015	0.05	0.2	0.06	7.1	<0.1	<0.05	6	<0.5
PAN-44674	Soil	16	27	0.55	309	0.045	<1	1.82	0.024	0.05	<0.1	0.03	11.1	<0.1	<0.05	6	<0.5
PAN-44675	Soil	8	25	0.48	230	0.067	<1	1.96	0.010	0.08	0.1	0.03	6.1	0.1	<0.05	7	<0.5
PAN-44676	Soil	6	18	0.38	184	0.094	<1	1.36	0.011	0.14	0.1	<0.01	2.9	0.2	<0.05	8	<0.5
PAN-44677	Soil	8	25	0.46	235	0.079	<1	1.52	0.010	0.12	0.1	0.01	6.6	<0.1	<0.05	6	<0.5
PAN-44678	Soil	8	23	0.45	209	0.076	<1	1.42	0.008	0.12	<0.1	<0.01	7.0	<0.1	<0.05	5	<0.5
PAN-44686	Soil	4	20	0.48	188	0.145	<1	1.84	0.013	0.28	<0.1	<0.01	4.7	0.1	<0.05	7	<0.5
PAN-44689	Soil	16	39	0.62	294	0.113	1	1.83	0.019	0.07	0.1	0.04	7.7	<0.1	<0.05	5	<0.5
PAN-44690	Soil	3	11	0.78	224	0.084	<1	2.14	0.031	0.05	<0.1	0.01	8.0	<0.1	<0.05	8	<0.5
PAN-44691	Soil	6	27	0.61	169	0.150	<1	2.33	0.009	0.12	0.1	0.02	4.7	<0.1	<0.05	7	<0.5
PAN-44692	Soil	11	30	0.66	207	0.083	<1	1.83	0.019	0.04	<0.1	0.05	7.7	<0.1	<0.05	5	1.0
PAN-44693	Soil	16	35	0.50	223	0.072	<1	1.84	0.019	0.06	0.2	0.05	7.4	<0.1	<0.05	6	0.5
PAN-44694	Soil	21	36	0.50	277	0.073	<1	1.79	0.014	0.06	0.2	0.05	8.0	<0.1	<0.05	5	0.6
PAN-44695	Soil	7	18	0.34	152	0.054	1	1.63	0.008	0.18	<0.1	0.02	8.8	0.1	<0.05	6	0.6
PAN-44696	Soil	18	41	0.56	227	0.103	<1	1.84	0.019	0.06	0.1	0.04	8.3	<0.1	<0.05	6	<0.5
PAN-44697	Soil	8	28	0.40	192	0.093	<1	1.83	0.014	0.09	0.1	0.02	4.9	0.1	<0.05	6	<0.5
PAN-44698	Soil	12	39	0.48	245	0.070	<1	2.13	0.011	0.05	0.1	0.02	5.6	<0.1	<0.05	6	<0.5
PAN-44699	Soil	15	40	0.56	179	0.106	<1	1.90	0.016	0.06	0.1	0.03	6.6	<0.1	<0.05	5	<0.5
PAN-44700	Soil	4	20	0.62	103	0.108	1	1.74	0.060	0.04	<0.1	0.01	4.6	<0.1	<0.05	5	0.6
PAN-44835	Soil	7	34	0.46	163	0.095	1	2.34	0.018	0.07	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5
PAN-44838	Soil	9	38	0.52	296	0.084	<1	2.24	0.012	0.04	<0.1	<0.01	3.7	0.1	<0.05	6	<0.5
PAN-44843	Soil	9	30	0.50	222	0.083	1	1.80	0.012	0.06	0.1	0.01	3.2	<0.1	<0.05	7	<0.5
PAN-44846	Soil	8	30	0.43	221	0.058	<1	1.78	0.009	0.06	0.1	<0.01	3.4	<0.1	<0.05	6	<0.5
PAN-44823	Soil	13	32	0.55	179	0.089	<1	2.10	0.012	0.05	0.1	0.02	4.0	<0.1	<0.05	6	<0.5
PAN-44824	Soil	11	28	0.42	153	0.079	<1	1.82	0.010	0.05	0.1	0.03	3.3	0.1	<0.05	7	<0.5
PAN-44825	Soil	10	24	0.29	178	0.059	<1	1.41	0.010	0.04	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
PAN-44826	Soil	11	40	0.53	177	0.075	2	2.04	0.010	0.05	<0.1	0.01	4.7	<0.1	<0.05	6	<0.5
PAN-44827	Soil	23	37	0.49	213	0.078	<1	2.03	0.014	0.05	0.1	0.03	5.8	<0.1	<0.05	6	<0.5
PAN-44828	Soil	20	37	0.53	222	0.086	<1	1.84	0.011	0.04	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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-44829	Soil	0.6	24.7	9.0	56	<0.1	21.6	9.7	388	2.70	7.6	0.7	3.4	3.2	25	<0.1	0.4	0.1	68	0.21	0.020
PAN-44830	Soil	0.7	23.9	9.3	55	<0.1	20.5	9.4	368	2.69	6.6	0.7	3.1	2.9	25	0.1	0.4	0.1	69	0.22	0.020
PAN-44831	Soil	0.9	22.7	11.5	64	0.1	21.7	10.2	406	2.98	8.3	0.7	3.1	3.1	22	0.1	0.4	0.2	72	0.15	0.018
PAN-44832	Soil	0.7	18.8	9.9	52	<0.1	18.9	9.6	366	2.64	6.9	0.6	8.9	3.5	28	<0.1	0.3	0.1	68	0.19	0.012
PAN-44833	Soil	0.8	19.5	11.1	51	<0.1	19.2	8.6	264	2.68	8.8	0.6	2.2	3.5	36	<0.1	0.4	0.1	66	0.14	0.018
PAN-44834	Soil	0.7	23.5	13.0	70	<0.1	15.5	8.6	351	3.07	7.0	0.5	1.9	3.9	20	0.1	0.3	0.1	60	0.15	0.030
PAN-44836	Soil	0.8	18.0	11.2	49	<0.1	18.6	8.7	359	2.68	8.9	0.6	1.2	3.4	18	<0.1	0.5	0.2	54	0.12	0.023
PAN-44837	Soil	1.0	13.3	13.4	78	<0.1	14.8	8.0	1331	2.96	7.1	0.5	1.1	1.4	22	0.2	0.5	0.2	61	0.15	0.052
PAN-44839	Soil	0.6	20.6	11.1	102	<0.1	17.8	8.9	919	2.97	5.6	0.5	1.8	2.8	254	0.2	0.4	0.1	59	0.35	0.047
PAN-44840	Soil	0.9	19.7	9.8	55	<0.1	20.4	10.2	827	2.93	7.8	0.5	3.0	2.3	56	0.2	0.5	0.2	73	0.39	0.037
PAN-44841	Soil	1.1	17.7	11.9	45	0.1	16.9	8.0	403	2.83	7.4	0.6	2.0	2.7	26	0.1	0.5	0.2	70	0.25	0.027
PAN-44844	Soil	0.8	13.4	9.1	58	<0.1	17.8	10.9	916	2.71	7.0	0.4	3.8	2.4	35	0.2	0.4	0.2	61	0.38	0.029
PAN-44845	Soil	0.8	16.1	12.4	61	<0.1	18.3	9.8	575	2.71	6.7	0.5	0.6	2.7	41	0.2	0.4	0.2	61	0.39	0.031
PAN-44847	Soil	1.0	17.6	10.4	57	<0.1	20.7	9.9	461	2.80	8.7	0.5	2.0	3.2	39	0.1	0.5	0.2	67	0.29	0.046
PAN-44849	Soil	0.3	19.4	10.4	97	<0.1	13.5	21.1	816	4.25	2.4	0.3	1.2	1.3	73	0.2	0.2	<0.1	113	0.78	0.197
PAN-44850	Soil	0.6	33.3	8.0	53	<0.1	27.6	11.2	522	2.57	9.3	0.6	4.9	3.2	59	0.2	0.5	0.1	57	1.80	0.103
PAN-47684	Soil	<0.1	284.5	1.1	50	<0.1	14.2	60.8	514	5.37	<0.5	0.2	2.3	0.3	44	<0.1	<0.1	<0.1	182	1.07	0.356
PAN-47685	Soil	0.1	281.2	1.1	51	<0.1	14.2	58.6	500	5.27	<0.5	0.2	1.0	0.3	40	<0.1	<0.1	<0.1	180	0.96	0.274
PAN-47699	Soil	0.5	33.5	14.9	56	<0.1	26.0	13.7	355	3.13	7.9	0.7	4.1	4.3	38	<0.1	0.5	0.2	78	0.32	0.023
PAN-47700	Soil	0.7	22.4	8.7	50	<0.1	17.1	13.6	336	3.19	6.5	0.4	1.8	3.4	84	<0.1	0.3	0.1	65	0.22	0.035
PAN-47701	Soil	0.6	22.7	26.0	58	<0.1	17.2	11.8	396	3.18	6.9	0.5	2.2	3.1	129	<0.1	0.4	0.2	74	0.24	0.034
PAN-47702	Soil	0.3	66.3	12.1	54	<0.1	20.9	26.1	494	3.74	4.7	0.4	1.8	1.9	328	<0.1	0.1	<0.1	96	0.93	0.068
PAN-47704	Soil	1.0	28.4	8.4	47	<0.1	18.8	13.3	316	3.65	7.7	0.3	1.3	2.5	27	0.1	0.4	0.1	80	0.21	0.039
PAN-47705	Soil	0.8	22.9	8.6	44	<0.1	18.5	10.6	225	2.98	8.1	0.4	1.2	2.7	39	<0.1	0.3	0.1	81	0.27	0.033
PAN-47706	Soil	0.4	26.2	11.3	34	<0.1	15.8	10.2	206	2.31	3.8	0.3	1.4	2.2	67	<0.1	0.2	0.1	57	0.43	0.047
PAN-47708	Soil	0.9	24.5	8.0	40	<0.1	17.8	8.7	218	2.59	6.0	0.5	17.3	2.2	37	<0.1	0.3	0.1	69	0.29	0.039
PAN-47709	Soil	0.8	40.9	17.2	95	<0.1	38.9	17.1	597	3.95	7.0	1.1	2.2	7.6	151	0.1	0.2	0.1	83	1.40	0.137
PAN-47710	Soil	1.0	33.7	10.2	71	0.1	53.2	15.8	404	3.70	4.6	1.1	1.6	8.6	42	<0.1	0.2	0.1	78	0.59	0.072
PAN-47711	Soil	1.3	24.1	10.8	63	0.2	37.9	11.3	269	3.13	7.2	0.9	1.0	5.0	29	0.1	0.3	0.2	71	0.31	0.050
PAN-47712	Soil	1.1	24.5	11.1	67	0.1	38.3	13.2	386	3.33	7.4	0.8	1.9	5.7	28	0.1	0.2	0.1	73	0.38	0.083



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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-44829	Soil	13	37	0.55	194	0.094	1	1.81	0.013	0.05	0.1	0.01	4.8	<0.1	<0.05	5	0.5
PAN-44830	Soil	16	34	0.51	198	0.098	<1	1.83	0.012	0.04	<0.1	0.02	5.4	<0.1	<0.05	6	<0.5
PAN-44831	Soil	10	36	0.48	202	0.086	<1	2.12	0.010	0.03	0.1	0.02	4.0	<0.1	<0.05	6	0.5
PAN-44832	Soil	12	35	0.49	206	0.089	2	1.86	0.010	0.03	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-44833	Soil	10	34	0.47	226	0.075	2	2.02	0.009	0.04	0.1	0.02	3.5	<0.1	<0.05	6	<0.5
PAN-44834	Soil	9	27	0.54	116	0.115	<1	1.88	0.010	0.09	<0.1	<0.01	4.1	<0.1	<0.05	7	<0.5
PAN-44836	Soil	8	30	0.51	200	0.052	<1	2.01	0.010	0.05	0.2	0.02	2.6	<0.1	<0.05	5	0.6
PAN-44837	Soil	5	22	0.35	327	0.027	<1	1.77	0.009	0.04	0.1	0.01	3.0	<0.1	<0.05	6	<0.5
PAN-44839	Soil	8	26	0.51	344	0.082	<1	1.75	0.012	0.07	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
PAN-44840	Soil	8	31	0.50	321	0.069	<1	1.70	0.012	0.07	0.1	0.02	3.0	<0.1	<0.05	6	<0.5
PAN-44841	Soil	12	29	0.41	254	0.056	<1	1.50	0.011	0.08	0.1	0.01	2.9	<0.1	<0.05	6	<0.5
PAN-44844	Soil	7	31	0.46	329	0.052	<1	1.69	0.015	0.09	0.2	<0.01	2.8	<0.1	<0.05	5	<0.5
PAN-44845	Soil	8	28	0.47	281	0.062	<1	1.53	0.011	0.09	0.2	0.02	3.1	<0.1	<0.05	5	0.6
PAN-44847	Soil	9	30	0.52	214	0.061	<1	1.71	0.011	0.07	0.1	0.02	2.9	<0.1	<0.05	5	<0.5
PAN-44849	Soil	5	27	1.61	438	0.211	<1	2.30	0.013	0.12	<0.1	0.01	3.3	0.2	<0.05	9	<0.5
PAN-44850	Soil	13	27	0.75	273	0.071	1	1.18	0.033	0.06	0.2	0.03	3.6	<0.1	<0.05	4	0.6
PAN-47684	Soil	4	7	1.86	173	0.063	<1	1.78	0.062	0.17	<0.1	<0.01	8.3	<0.1	<0.05	6	0.8
PAN-47685	Soil	4	7	1.90	179	0.072	<1	1.81	0.071	0.20	<0.1	<0.01	8.5	<0.1	<0.05	6	<0.5
PAN-47699	Soil	17	46	0.69	431	0.109	<1	2.11	0.018	0.04	0.1	0.02	6.6	<0.1	<0.05	6	<0.5
PAN-47700	Soil	9	32	0.73	254	0.144	<1	2.47	0.013	0.14	<0.1	0.01	2.7	0.1	<0.05	6	<0.5
PAN-47701	Soil	11	31	0.72	225	0.108	<1	1.93	0.015	0.07	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5
PAN-47702	Soil	8	51	1.83	326	0.214	<1	2.70	0.017	0.24	<0.1	<0.01	5.2	<0.1	<0.05	9	<0.5
PAN-47704	Soil	7	46	0.75	215	0.150	<1	2.49	0.015	0.09	0.1	<0.01	2.7	<0.1	<0.05	8	<0.5
PAN-47705	Soil	9	38	0.67	181	0.117	<1	2.14	0.012	0.06	0.1	0.01	2.9	<0.1	<0.05	6	<0.5
PAN-47706	Soil	7	30	0.63	136	0.099	<1	1.75	0.015	0.05	0.1	<0.01	2.5	<0.1	<0.05	5	<0.5
PAN-47708	Soil	13	31	0.49	178	0.093	<1	1.73	0.012	0.07	0.1	0.02	2.6	<0.1	<0.05	6	<0.5
PAN-47709	Soil	18	71	1.35	201	0.207	<1	3.64	0.014	0.43	<0.1	<0.01	5.2	0.3	<0.05	11	0.7
PAN-47710	Soil	28	80	1.26	220	0.174	<1	2.61	0.023	0.34	0.2	0.01	4.9	0.2	<0.05	8	0.6
PAN-47711	Soil	18	72	0.85	169	0.133	<1	2.12	0.016	0.20	<0.1	0.02	3.2	0.2	<0.05	7	<0.5
PAN-47712	Soil	19	62	0.95	159	0.154	1	1.87	0.013	0.32	0.1	0.02	3.6	0.2	<0.05	8	<0.5



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-47713	Soil		1.0	27.4	10.5	61	0.3	31.4	11.3	268	2.94	7.1	1.6	2.5	4.9	42	0.1	0.2	0.2	67	0.65	0.044
PAN-47714	Soil		0.7	27.8	6.8	71	<0.1	14.9	14.8	444	3.83	6.3	0.3	1.2	1.6	23	<0.1	0.3	0.1	94	0.22	0.042
PAN-47716	Soil		0.3	41.0	2.0	74	<0.1	9.8	19.7	540	3.80	2.3	<0.1	1.0	0.3	36	<0.1	<0.1	<0.1	106	0.34	0.098
PAN-47717	Soil		0.4	44.6	3.4	42	<0.1	17.5	13.2	299	2.76	4.2	0.3	1.1	1.5	11	<0.1	0.2	<0.1	55	0.30	0.070
PAN-47719	Soil		0.2	31.4	1.3	62	<0.1	9.9	13.8	409	2.96	1.0	0.1	<0.5	0.5	23	<0.1	<0.1	<0.1	75	0.44	0.088
PAN-47720	Soil		0.7	25.2	6.7	53	<0.1	11.0	13.5	489	3.90	5.7	0.2	<0.5	2.0	16	0.1	0.3	<0.1	90	0.38	0.110
PAN-47723	Soil		0.2	36.8	1.6	36	<0.1	9.3	13.5	301	2.41	2.1	0.1	1.0	0.4	18	<0.1	0.1	<0.1	62	0.52	0.115
PAN-47724	Soil		0.7	39.1	7.7	47	<0.1	21.6	11.7	282	2.87	8.0	1.0	6.6	3.1	25	<0.1	0.6	0.2	69	0.31	0.034
PAN-47725	Soil		0.2	31.2	1.3	34	<0.1	6.1	10.3	304	2.31	<0.5	0.1	0.7	0.3	19	<0.1	<0.1	<0.1	61	0.57	0.103
PAN-47726	Soil		0.3	33.8	4.0	48	<0.1	13.8	13.2	320	2.73	4.3	0.2	1.5	1.0	19	<0.1	0.3	<0.1	73	0.36	0.071
PAN-47730	Soil		0.5	23.7	3.7	44	<0.1	5.3	12.4	385	2.89	3.8	0.1	0.8	0.6	24	<0.1	0.1	<0.1	81	0.40	0.106
PAN-47731	Soil		0.6	27.0	5.9	52	<0.1	17.8	12.7	380	3.47	6.6	0.3	1.4	2.1	16	<0.1	0.3	<0.1	83	0.21	0.036
PAN-47732	Soil		0.3	49.0	2.3	39	<0.1	10.0	13.0	274	2.47	2.0	0.3	0.5	1.0	19	<0.1	0.1	<0.1	56	0.41	0.094
PAN-47736	Soil		0.3	63.2	1.7	100	<0.1	20.0	15.0	536	4.53	1.6	0.6	<0.5	8.2	15	<0.1	0.1	<0.1	80	0.30	0.060
PAN-47738	Soil		1.0	14.1	7.0	58	<0.1	26.0	13.6	453	3.57	6.7	0.3	<0.5	3.7	23	<0.1	0.4	0.1	79	0.26	0.025
PAN-47744	Soil		0.6	23.2	9.6	71	<0.1	24.6	13.2	378	3.63	5.7	0.7	1.8	9.6	18	<0.1	0.3	0.1	60	0.20	0.025
PAN-47745	Soil		0.2	39.6	1.3	81	<0.1	12.8	22.9	675	4.22	1.1	0.1	<0.5	0.2	32	<0.1	<0.1	<0.1	99	0.43	0.091
PAN-47746	Soil		0.4	33.8	5.6	115	<0.1	6.9	8.3	590	4.46	2.7	1.2	<0.5	8.5	12	<0.1	0.1	<0.1	70	0.17	0.039
PAN-47747	Soil		0.7	97.6	6.0	404	<0.1	14.6	15.6	1187	4.41	3.4	0.8	<0.5	5.1	15	0.3	0.1	0.2	103	0.47	0.097
PAN-47749	Soil		0.2	45.1	5.7	101	<0.1	7.9	15.5	692	4.62	1.2	0.7	<0.5	6.6	16	<0.1	<0.1	<0.1	67	0.28	0.066
PAN-47750	Soil		0.1	47.1	5.8	102	<0.1	8.5	15.4	714	4.44	1.3	0.7	<0.5	6.8	16	<0.1	0.1	<0.1	63	0.27	0.064
PAN-47751	Soil		0.6	28.9	6.9	110	<0.1	11.8	11.9	682	3.96	4.9	0.7	<0.5	4.6	20	0.1	0.2	<0.1	52	0.25	0.083
PAN-47752	Soil		0.6	13.3	4.9	71	<0.1	7.3	9.5	565	3.51	2.8	0.6	<0.5	8.2	9	<0.1	<0.1	<0.1	56	0.14	0.034
PAN-47753	Soil		0.7	76.6	3.2	79	<0.1	7.8	11.3	583	5.18	5.2	0.9	<0.5	3.8	19	<0.1	0.2	<0.1	65	0.39	0.073
PAN-47754	Soil		0.9	12.2	35.2	79	0.1	9.2	9.5	879	3.62	7.0	0.6	1.0	2.1	15	0.3	0.5	0.2	56	0.20	0.087
PAN-47755	Soil		1.0	16.5	32.4	56	0.1	16.8	8.7	536	3.27	13.5	0.4	<0.5	3.0	22	0.2	0.6	0.2	77	0.27	0.032
PAN-47756	Soil		0.8	51.3	15.7	41	<0.1	11.2	21.0	391	3.57	4.8	0.2	<0.5	1.1	21	<0.1	0.3	<0.1	129	0.36	0.010
PAN-47757	Soil		1.2	28.0	26.5	86	<0.1	16.0	16.4	1304	4.53	5.2	0.5	0.5	2.0	13	<0.1	1.1	0.2	77	0.29	0.022
PAN-47758	Soil		1.0	21.9	7.2	60	<0.1	18.3	15.1	830	3.57	6.9	0.5	0.8	3.0	17	<0.1	0.3	0.1	81	0.21	0.022
PAN-47760	Soil		0.3	34.5	2.2	110	<0.1	7.6	10.3	670	3.85	1.6	0.4	0.9	4.3	20	<0.1	0.1	<0.1	68	0.41	0.077



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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-47713	Soil	43	52	0.68	232	0.124	2	1.96	0.020	0.15	0.1	0.04	3.5	0.2	<0.05	8	0.5
PAN-47714	Soil	6	28	1.16	261	0.148	<1	2.25	0.015	0.38	<0.1	<0.01	3.5	0.1	<0.05	7	0.5
PAN-47716	Soil	1	28	1.59	361	0.247	<1	2.60	0.030	0.71	<0.1	<0.01	2.6	0.2	<0.05	6	<0.5
PAN-47717	Soil	5	39	0.76	267	0.123	<1	1.72	0.026	0.38	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5
PAN-47719	Soil	5	30	1.27	514	0.182	<1	1.91	0.025	0.56	<0.1	<0.01	3.1	0.1	<0.05	6	<0.5
PAN-47720	Soil	7	29	0.84	279	0.125	<1	2.01	0.040	0.23	<0.1	0.02	4.2	0.1	<0.05	7	<0.5
PAN-47723	Soil	1	25	0.91	192	0.142	<1	1.64	0.037	0.29	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5
PAN-47724	Soil	12	35	0.62	277	0.087	<1	1.98	0.018	0.06	0.2	0.02	5.5	<0.1	<0.05	6	<0.5
PAN-47725	Soil	3	20	0.85	112	0.054	<1	1.36	0.035	0.10	<0.1	<0.01	5.1	<0.1	<0.05	4	<0.5
PAN-47726	Soil	4	30	1.00	150	0.131	<1	1.86	0.023	0.27	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5
PAN-47730	Soil	3	16	0.93	80	0.133	<1	1.54	0.027	0.07	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5
PAN-47731	Soil	7	35	0.90	209	0.091	<1	2.13	0.015	0.14	<0.1	<0.01	4.4	<0.1	<0.05	7	<0.5
PAN-47732	Soil	8	25	0.83	150	0.099	<1	1.80	0.029	0.21	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5
PAN-47736	Soil	15	41	1.23	758	0.195	<1	2.31	0.009	1.04	<0.1	<0.01	4.7	0.2	<0.05	7	<0.5
PAN-47738	Soil	7	57	0.84	394	0.164	<1	2.19	0.012	0.43	<0.1	0.01	3.5	0.1	<0.05	8	<0.5
PAN-47744	Soil	19	39	0.73	230	0.145	<1	2.34	0.009	0.33	<0.1	<0.01	3.3	0.3	<0.05	7	<0.5
PAN-47745	Soil	1	36	2.14	610	0.271	<1	2.83	0.016	1.12	<0.1	<0.01	2.1	0.2	<0.05	6	<0.5
PAN-47746	Soil	15	17	1.67	327	0.238	<1	2.36	0.012	1.26	<0.1	<0.01	9.2	0.5	<0.05	11	0.5
PAN-47747	Soil	13	65	1.63	537	0.211	<1	2.83	0.029	0.75	<0.1	<0.01	6.9	0.2	<0.05	10	<0.5
PAN-47749	Soil	17	19	1.39	436	0.215	<1	2.37	0.013	1.01	<0.1	<0.01	5.1	0.3	<0.05	11	<0.5
PAN-47750	Soil	19	18	1.30	445	0.202	<1	2.31	0.013	1.00	<0.1	<0.01	5.1	0.3	<0.05	11	<0.5
PAN-47751	Soil	10	22	0.95	240	0.155	<1	2.11	0.010	0.49	0.1	<0.01	4.2	0.2	<0.05	10	<0.5
PAN-47752	Soil	8	20	1.41	298	0.166	<1	2.04	0.009	0.77	<0.1	<0.01	7.6	0.2	<0.05	10	<0.5
PAN-47753	Soil	6	21	1.09	365	0.133	<1	2.39	0.017	0.58	<0.1	<0.01	7.9	0.1	<0.05	10	<0.5
PAN-47754	Soil	7	19	0.35	291	0.043	1	1.33	0.012	0.13	0.1	0.01	4.6	<0.1	<0.05	7	<0.5
PAN-47755	Soil	7	32	0.41	391	0.053	1	1.74	0.009	0.07	<0.1	0.01	3.0	<0.1	<0.05	6	<0.5
PAN-47756	Soil	3	20	0.93	148	0.041	<1	1.80	0.039	0.05	<0.1	0.47	6.7	<0.1	<0.05	5	<0.5
PAN-47757	Soil	6	22	0.26	294	0.015	<1	1.30	0.007	0.07	0.4	0.02	5.5	<0.1	<0.05	4	<0.5
PAN-47758	Soil	10	37	0.55	241	0.051	<1	2.23	0.013	0.05	0.2	0.03	7.1	<0.1	<0.05	7	<0.5
PAN-47760	Soil	14	16	1.04	629	0.143	<1	2.07	0.016	0.52	<0.1	<0.01	5.5	0.2	<0.05	8	<0.5



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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
PAN-47761	Soil	2.5	48.5	7.7	104	<0.1	22.0	14.0	896	5.92	3.2	1.3	2.1	11.2	12	<0.1	0.2	0.1	94	0.25	0.035
PAN-47762	Soil	0.7	23.3	4.8	73	<0.1	6.1	10.5	706	4.19	2.0	0.7	<0.5	8.5	16	<0.1	<0.1	<0.1	66	0.51	0.161
PAN-47763	Soil	1.0	17.8	9.2	67	<0.1	17.9	12.9	421	3.60	8.3	0.6	0.8	4.1	16	<0.1	0.4	0.1	83	0.18	0.031
PAN-47764	Soil	1.1	26.8	18.0	70	0.1	19.9	11.0	634	3.29	7.7	0.5	<0.5	3.2	18	0.1	0.5	0.2	79	0.21	0.031
PAN-47765	Soil	0.9	18.7	9.5	77	<0.1	19.2	11.7	724	3.15	7.9	0.6	1.4	5.1	13	0.2	0.6	0.2	66	0.12	0.042
PAN-47766	Soil	0.5	41.3	13.1	99	<0.1	13.1	20.8	634	5.41	4.0	0.4	0.8	4.8	22	<0.1	0.2	<0.1	140	0.35	0.083
PAN-47767	Soil	1.2	44.5	5.2	103	<0.1	14.2	16.7	547	4.35	10.1	0.8	<0.5	5.7	18	<0.1	0.1	<0.1	108	0.42	0.095
PAN-47768	Soil	0.3	37.9	144.3	73	<0.1	11.2	21.3	628	4.47	2.3	0.2	0.9	1.3	46	<0.1	0.1	0.2	123	0.47	0.023
PAN-47769	Soil	0.5	30.5	15.4	43	<0.1	14.2	12.2	265	2.95	5.4	0.4	1.9	2.4	20	<0.1	0.3	0.1	76	0.27	0.021
PAN-47770	Soil	0.4	65.7	8.5	62	<0.1	10.8	14.7	562	3.01	4.4	0.2	<0.5	2.3	17	<0.1	0.2	<0.1	60	0.28	0.081
PAN-47772	Soil	0.8	28.3	100.6	99	0.1	22.2	12.0	1587	3.49	8.2	0.7	1.1	3.4	57	0.3	0.7	0.5	79	0.65	0.049
PAN-47776	Soil	0.6	26.6	15.2	63	<0.1	18.1	10.8	473	2.90	6.2	0.8	4.6	2.5	20	<0.1	0.4	0.2	59	0.24	0.038
PAN-47777	Soil	0.7	28.4	12.7	64	<0.1	22.7	11.1	454	3.17	7.9	1.0	2.1	3.3	29	<0.1	0.5	0.2	70	0.32	0.034
PAN-47778	Soil	0.6	31.0	8.9	55	<0.1	22.8	12.1	491	2.88	9.9	1.0	3.6	3.4	30	<0.1	0.5	0.1	62	0.37	0.049
PAN-47779	Soil	0.8	25.7	11.5	70	<0.1	20.0	11.1	448	3.41	8.6	1.0	2.2	3.1	26	<0.1	0.4	0.2	75	0.30	0.029
PAN-47780	Soil	0.7	43.1	8.2	80	<0.1	17.3	12.9	706	3.58	7.2	1.0	4.2	3.0	48	<0.1	0.4	0.1	70	0.37	0.034
PAN-47781	Soil	0.5	27.1	12.0	68	<0.1	17.2	15.7	435	3.61	7.2	0.6	2.0	2.4	28	<0.1	0.4	0.1	98	0.30	0.034
PAN-47782	Soil	0.8	26.4	10.0	59	<0.1	15.0	9.2	380	2.85	6.0	0.7	2.0	2.4	22	<0.1	0.3	0.2	62	0.19	0.034
PAN-47783	Soil	1.3	17.1	13.4	44	<0.1	10.4	5.5	316	2.53	6.5	0.7	0.6	1.2	11	0.2	0.3	0.2	59	0.09	0.042
PAN-47784	Soil	0.7	36.4	8.9	63	<0.1	22.9	10.3	516	2.85	8.1	1.0	2.9	4.2	20	<0.1	0.5	0.2	63	0.22	0.052
PAN-47785	Soil	4.3	18.5	9.9	51	<0.1	15.9	7.2	256	2.67	6.6	0.6	4.1	1.5	17	0.1	0.3	0.2	59	0.15	0.032
PAN-47786	Soil	0.7	35.3	9.8	81	<0.1	17.5	8.9	556	3.18	8.0	0.9	1.6	3.6	26	<0.1	0.4	0.2	55	0.20	0.030
PAN-47787	Soil	0.5	51.0	8.7	53	<0.1	22.6	15.1	378	3.07	5.3	0.5	2.3	2.0	212	<0.1	0.3	0.1	86	0.29	0.025
PAN-47788	Soil	0.8	36.0	18.8	73	<0.1	24.3	11.9	570	3.14	8.7	1.2	2.3	4.4	18	0.1	0.5	0.2	70	0.22	0.044
PAN-47789	Soil	0.8	21.0	10.9	46	<0.1	18.6	7.9	250	2.52	7.8	0.7	1.9	2.7	15	<0.1	0.4	0.2	61	0.16	0.033
PAN-47790	Soil	0.9	33.5	19.2	67	<0.1	25.4	11.7	372	3.25	8.9	0.7	2.5	3.8	14	0.1	0.5	0.2	72	0.14	0.023
PAN-48001	Soil	3.3	73.7	16.2	105	0.1	37.1	10.2	358	4.22	18.8	2.0	<0.5	8.0	13	<0.1	0.6	0.2	77	0.08	0.029
PAN-48006	Soil	0.8	36.3	8.8	61	<0.1	26.7	13.7	339	3.21	9.7	0.6	1.6	3.7	18	0.1	0.6	0.1	79	0.18	0.026
PAN-48009	Soil	0.7	25.6	71.7	87	0.1	28.4	13.8	576	3.46	7.8	0.7	0.5	5.9	198	<0.1	0.4	0.5	84	0.24	0.049
PAN-48011	Soil	1.0	18.1	17.9	58	<0.1	22.1	10.5	358	2.97	9.4	0.4	1.8	2.5	14	0.1	0.6	0.2	65	0.14	0.027



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Part 2

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-47761	Soil	42	59	0.75	261	0.063	<1	1.50	0.009	0.21	<0.1	0.02	15.4	<0.1	<0.05	9	0.5
PAN-47762	Soil	46	12	1.53	541	0.203	<1	2.35	0.010	1.05	<0.1	<0.01	8.7	0.3	<0.05	10	<0.5
PAN-47763	Soil	9	33	0.98	270	0.146	2	2.43	0.014	0.39	0.1	<0.01	4.6	0.2	<0.05	8	<0.5
PAN-47764	Soil	9	35	0.62	429	0.087	3	2.04	0.013	0.09	0.1	<0.01	3.6	0.1	<0.05	6	<0.5
PAN-47765	Soil	9	29	0.55	335	0.089	<1	2.03	0.011	0.14	0.1	<0.01	3.5	0.1	<0.05	7	<0.5
PAN-47766	Soil	11	39	1.38	340	0.126	<1	2.10	0.015	0.30	<0.1	<0.01	8.7	0.2	<0.05	11	<0.5
PAN-47767	Soil	38	61	1.75	441	0.205	<1	2.34	0.018	0.81	<0.1	<0.01	7.0	0.3	<0.05	11	<0.5
PAN-47768	Soil	9	33	1.55	471	0.196	<1	1.98	0.024	0.19	<0.1	<0.01	8.5	0.2	<0.05	10	<0.5
PAN-47769	Soil	14	29	0.66	221	0.100	<1	1.68	0.018	0.04	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5
PAN-47770	Soil	5	19	0.68	370	0.131	<1	1.62	0.014	0.38	0.1	<0.01	2.2	0.2	<0.05	6	<0.5
PAN-47772	Soil	15	32	0.64	582	0.021	2	1.69	0.015	0.09	<0.1	0.04	7.8	<0.1	<0.05	7	<0.5
PAN-47776	Soil	13	31	0.52	177	0.080	1	1.89	0.012	0.04	<0.1	0.01	5.0	<0.1	<0.05	6	<0.5
PAN-47777	Soil	15	37	0.62	274	0.082	1	2.10	0.016	0.04	0.1	0.03	6.6	<0.1	<0.05	6	<0.5
PAN-47778	Soil	16	37	0.59	283	0.076	<1	2.09	0.018	0.04	0.1	0.04	6.3	<0.1	<0.05	5	<0.5
PAN-47779	Soil	15	34	0.63	246	0.068	<1	2.31	0.013	0.05	0.1	0.02	6.8	<0.1	<0.05	7	0.5
PAN-47780	Soil	17	26	0.60	204	0.093	<1	1.99	0.017	0.08	<0.1	0.05	7.5	0.1	<0.05	7	<0.5
PAN-47781	Soil	8	24	0.74	155	0.103	1	2.52	0.027	0.05	<0.1	0.03	4.9	<0.1	<0.05	6	<0.5
PAN-47782	Soil	11	25	0.48	170	0.069	<1	1.75	0.009	0.06	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5
PAN-47783	Soil	11	22	0.29	111	0.045	<1	1.52	0.008	0.04	<0.1	0.03	2.0	0.1	<0.05	6	<0.5
PAN-47784	Soil	22	34	0.56	225	0.062	1	2.09	0.012	0.05	0.2	0.05	5.3	0.1	<0.05	5	<0.5
PAN-47785	Soil	10	28	0.39	145	0.049	<1	1.86	0.009	0.03	0.1	0.02	3.4	0.1	<0.05	6	<0.5
PAN-47786	Soil	22	28	0.52	175	0.053	<1	1.74	0.010	0.05	0.1	0.03	7.5	<0.1	<0.05	6	<0.5
PAN-47787	Soil	8	45	1.01	153	0.109	<1	2.09	0.019	0.05	0.1	0.02	4.8	0.1	<0.05	5	<0.5
PAN-47788	Soil	27	35	0.62	194	0.077	1	2.03	0.011	0.06	0.1	0.04	5.2	0.1	<0.05	6	<0.5
PAN-47789	Soil	13	30	0.44	154	0.059	1	1.81	0.011	0.03	0.1	0.02	2.9	0.1	<0.05	5	<0.5
PAN-47790	Soil	10	38	0.61	152	0.078	<1	2.60	0.011	0.04	0.1	0.03	3.7	0.1	<0.05	6	<0.5
PAN-48001	Soil	11	38	0.53	170	0.042	1	2.37	0.008	0.18	<0.1	0.02	3.0	0.3	<0.05	7	0.7
PAN-48006	Soil	8	35	0.59	182	0.064	1	2.48	0.011	0.05	0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-48009	Soil	11	44	0.66	248	0.125	<1	2.25	0.009	0.22	0.1	0.02	3.8	0.2	<0.05	7	<0.5
PAN-48011	Soil	7	33	0.51	187	0.052	<1	2.21	0.010	0.05	0.1	0.02	3.0	<0.1	<0.05	5	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-48013	Soil	1.1	23.2	8.9	49	<0.1	20.2	11.2	233	2.91	8.8	0.5	1.5	2.8	16	0.1	0.6	0.2	67	0.14	0.025
PAN-48014	Soil	1.6	30.9	10.9	50	<0.1	24.1	11.5	398	3.06	12.5	1.1	3.2	3.0	19	0.1	0.6	0.2	70	0.21	0.032
PAN-48015	Soil	1.1	98.0	9.6	76	<0.1	22.6	21.7	583	4.12	15.2	0.4	1.5	1.6	41	0.1	0.4	0.1	98	0.42	0.093
PAN-48017	Soil	0.6	39.2	8.5	60	<0.1	27.1	15.2	364	3.06	11.5	0.7	4.9	3.3	33	<0.1	0.5	0.1	74	0.47	0.112
PAN-48033	Soil	1.0	46.7	12.8	83	<0.1	11.5	12.1	849	4.01	6.0	0.6	1.2	1.2	15	<0.1	0.4	0.1	71	0.14	0.027
PAN-48035	Soil	1.2	25.0	9.8	54	0.2	20.1	10.9	465	3.27	9.6	0.6	<0.5	2.4	11	0.1	0.5	0.2	73	0.12	0.029
PAN-48036	Soil	1.5	24.1	13.6	69	0.1	21.5	10.5	362	3.02	9.6	0.5	1.5	2.6	12	0.1	0.6	0.2	74	0.12	0.021
PAN-48160	Soil	1.1	22.8	12.2	65	0.1	20.6	10.7	305	3.21	10.4	0.4	1.0	2.6	13	0.2	0.5	0.2	74	0.12	0.035
PAN-48161	Soil	1.1	27.4	8.0	50	<0.1	29.8	13.3	270	2.90	9.2	0.9	1.6	5.3	16	<0.1	0.5	0.1	63	0.16	0.019
PAN-48162	Soil	1.0	25.5	7.7	58	<0.1	29.7	13.6	631	3.13	9.1	0.6	<0.5	5.2	22	<0.1	0.5	0.2	69	0.23	0.029
PAN-48163	Soil	1.1	19.0	9.1	65	<0.1	21.4	12.5	893	2.97	7.2	0.6	<0.5	4.7	22	0.1	0.3	0.2	64	0.27	0.026
PAN-48165	Soil	0.4	35.4	11.3	98	<0.1	36.1	16.7	336	4.38	1.8	1.3	22.5	27.2	12	<0.1	<0.1	<0.1	46	0.14	0.036
PAN-48166	Soil	0.5	36.2	11.6	97	<0.1	36.2	17.2	334	4.43	2.2	1.5	85.5	28.0	12	<0.1	0.1	<0.1	48	0.14	0.031
PAN-48167	Soil	2.4	87.1	7.5	108	<0.1	69.1	13.8	515	3.68	3.3	2.2	1.4	7.6	24	0.3	0.2	0.2	119	0.33	0.105
PAN-48168	Soil	4.3	92.7	8.3	121	<0.1	97.2	28.1	1061	4.76	3.7	2.0	<0.5	9.8	22	0.6	0.2	0.1	111	0.36	0.118
PAN-48169	Soil	3.3	77.7	4.5	69	<0.1	54.6	25.4	608	4.10	1.1	1.6	0.8	7.8	19	<0.1	<0.1	0.1	126	0.33	0.110
PAN-48171	Soil	0.9	32.9	10.1	84	<0.1	41.1	16.7	1504	4.88	4.6	1.0	1.0	12.7	21	<0.1	0.2	<0.1	67	0.27	0.083
PAN-48172	Soil	0.7	20.9	6.4	89	<0.1	33.0	14.5	451	4.20	3.4	1.6	<0.5	10.7	17	0.1	0.1	0.1	75	0.23	0.076
PAN-48173	Soil	0.8	23.8	7.2	82	<0.1	32.6	19.1	560	3.91	5.4	0.5	0.6	5.8	26	0.1	0.3	0.1	70	0.32	0.057
PAN-48174	Soil	0.5	78.8	11.0	102	<0.1	59.8	24.1	981	4.10	3.0	1.4	1.5	11.4	57	0.1	0.2	<0.1	54	2.41	0.066
PAN-48176	Soil	2.3	34.5	12.4	57	0.1	22.8	9.9	402	3.32	5.2	0.8	1.2	4.5	45	<0.1	0.3	0.2	69	0.28	0.062
PAN-48177	Soil	0.8	27.3	6.4	75	<0.1	48.7	21.8	378	4.44	4.7	0.8	<0.5	15.4	19	<0.1	0.3	<0.1	55	0.28	0.048
PAN-48178	Soil	0.8	45.1	6.7	64	<0.1	41.0	16.8	514	3.49	6.3	0.8	1.3	7.4	22	<0.1	0.3	0.1	63	0.32	0.052
PAN-48180	Soil	1.1	14.9	7.6	73	<0.1	30.2	16.2	723	3.73	2.9	0.3	8.7	5.3	24	0.1	0.2	0.1	62	0.36	0.091
PAN-48184	Soil	0.7	43.2	4.6	67	<0.1	59.2	19.7	306	3.75	5.7	0.5	<0.5	3.5	17	<0.1	0.3	<0.1	79	0.37	0.105
PAN-48185	Soil	0.7	14.9	8.3	74	<0.1	38.0	18.9	874	3.57	2.9	0.3	<0.5	5.4	20	<0.1	0.2	0.1	56	0.30	0.081
PAN-48186	Soil	0.8	13.6	7.5	76	<0.1	32.1	15.3	470	3.31	4.7	0.3	1.3	5.2	17	<0.1	0.3	0.1	62	0.25	0.062
PAN-48189	Soil	1.0	30.5	7.6	75	<0.1	55.8	19.6	197	3.48	4.3	0.7	0.5	8.6	13	<0.1	0.2	0.1	63	0.22	0.049
PAN-48191	Soil	2.5	96.8	8.2	86	0.2	105.7	34.1	614	5.64	1.3	1.6	2.1	15.0	64	<0.1	0.2	0.1	91	1.24	0.128
PAN-48192	Soil	0.9	32.9	8.0	59	<0.1	50.2	15.7	285	3.52	8.0	1.0	1.6	8.5	20	<0.1	0.4	0.1	72	0.27	0.068



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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-48013	Soil	8	33	0.49	155	0.064	1	2.25	0.011	0.04	0.1	0.03	3.0	<0.1	<0.05	6	<0.5
PAN-48014	Soil	12	36	0.47	192	0.060	<1	1.96	0.013	0.04	0.1	0.06	4.2	0.1	<0.05	6	<0.5
PAN-48015	Soil	6	35	1.14	249	0.125	<1	2.24	0.024	0.24	<0.1	0.03	3.5	0.3	<0.05	7	<0.5
PAN-48017	Soil	12	39	0.79	292	0.080	<1	2.11	0.015	0.06	0.1	0.02	3.9	0.1	<0.05	5	<0.5
PAN-48033	Soil	11	20	0.31	131	0.030	<1	1.85	0.013	0.05	<0.1	0.02	7.3	0.1	<0.05	7	<0.5
PAN-48035	Soil	9	36	0.43	168	0.059	<1	2.18	0.009	0.04	0.1	0.03	3.6	0.1	<0.05	7	<0.5
PAN-48036	Soil	7	36	0.46	181	0.064	<1	2.35	0.011	0.04	0.1	0.02	2.8	0.1	<0.05	6	<0.5
PAN-48160	Soil	7	35	0.52	184	0.075	<1	2.10	0.008	0.08	0.1	0.01	2.8	0.1	<0.05	6	<0.5
PAN-48161	Soil	17	37	0.61	212	0.077	<1	2.03	0.013	0.09	<0.1	0.01	3.0	0.1	<0.05	5	<0.5
PAN-48162	Soil	9	38	0.66	231	0.089	<1	2.17	0.009	0.15	0.1	0.01	2.5	0.2	<0.05	6	<0.5
PAN-48163	Soil	11	36	0.54	278	0.092	<1	1.94	0.012	0.13	<0.1	0.02	3.0	0.1	<0.05	6	<0.5
PAN-48165	Soil	61	49	1.00	206	0.237	<1	2.30	0.008	1.06	<0.1	<0.01	4.3	0.7	<0.05	7	<0.5
PAN-48166	Soil	63	50	0.99	214	0.238	<1	2.33	0.008	1.00	<0.1	<0.01	4.1	0.8	<0.05	7	<0.5
PAN-48167	Soil	31	80	1.34	1016	0.164	<1	2.28	0.011	0.71	0.1	<0.01	5.6	0.3	<0.05	8	0.6
PAN-48168	Soil	39	59	1.14	393	0.132	<1	2.59	0.011	0.82	<0.1	<0.01	4.3	0.3	<0.05	10	<0.5
PAN-48169	Soil	28	86	1.58	744	0.135	<1	2.58	0.013	0.76	<0.1	<0.01	5.3	0.4	<0.05	10	2.1
PAN-48171	Soil	16	67	1.09	397	0.262	<1	2.57	0.010	0.89	<0.1	0.01	3.3	0.6	<0.05	8	<0.5
PAN-48172	Soil	16	62	1.30	277	0.269	<1	2.55	0.011	0.72	<0.1	0.02	5.2	0.4	<0.05	11	<0.5
PAN-48173	Soil	8	48	0.75	392	0.157	<1	2.23	0.010	0.34	<0.1	<0.01	3.8	0.2	<0.05	8	<0.5
PAN-48174	Soil	38	63	1.38	110	0.161	<1	2.05	0.007	0.90	0.2	0.02	4.0	0.6	<0.05	5	<0.5
PAN-48176	Soil	18	40	0.65	151	0.091	<1	1.82	0.012	0.20	0.1	<0.01	2.5	0.1	<0.05	7	<0.5
PAN-48177	Soil	29	49	0.85	252	0.177	<1	2.20	0.010	0.85	<0.1	<0.01	4.1	0.4	<0.05	7	<0.5
PAN-48178	Soil	14	64	0.89	221	0.157	<1	2.03	0.012	0.59	0.1	<0.01	4.5	0.3	<0.05	6	<0.5
PAN-48180	Soil	8	46	0.63	393	0.130	2	2.34	0.012	0.24	<0.1	<0.01	3.3	0.2	<0.05	8	<0.5
PAN-48184	Soil	19	106	1.17	288	0.197	<1	2.16	0.010	0.74	<0.1	<0.01	3.8	0.2	<0.05	9	<0.5
PAN-48185	Soil	9	46	0.82	463	0.185	1	2.25	0.012	0.59	<0.1	<0.01	2.8	0.3	<0.05	8	<0.5
PAN-48186	Soil	11	54	0.78	291	0.122	1	2.27	0.010	0.16	<0.1	<0.01	3.1	0.2	<0.05	7	<0.5
PAN-48189	Soil	16	80	0.97	161	0.120	2	2.47	0.009	0.25	<0.1	<0.01	3.4	0.3	<0.05	8	<0.5
PAN-48191	Soil	54	113	1.73	257	0.197	<1	2.85	0.015	1.52	<0.1	0.02	4.9	0.7	0.12	10	<0.5
PAN-48192	Soil	27	69	0.94	263	0.130	1	2.32	0.011	0.34	0.1	<0.01	4.2	0.3	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 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-48196	Soil	0.7	31.5	6.3	62	<0.1	43.7	17.6	301	3.32	6.9	1.1	2.8	7.9	17	<0.1	0.3	0.1	67	0.20	0.018
PAN-48197	Soil	0.8	40.5	12.8	96	<0.1	53.7	20.8	529	5.56	2.0	1.2	<0.5	21.0	14	<0.1	0.1	0.1	73	0.28	0.075
PAN-48198	Soil	1.0	33.7	10.7	71	<0.1	32.8	15.9	535	3.88	2.6	1.2	<0.5	16.8	16	<0.1	0.2	<0.1	46	0.28	0.062
PAN-48199	Soil	1.1	14.9	8.2	50	<0.1	21.4	10.4	654	2.91	6.2	0.4	<0.5	2.9	16	<0.1	0.4	0.1	72	0.19	0.023
PAN-48200	Soil	0.6	33.6	8.8	80	<0.1	37.4	20.6	357	4.55	2.0	0.9	<0.5	17.9	14	<0.1	0.1	0.1	63	0.27	0.040
PAN-48202	Soil	0.8	33.8	9.4	78	<0.1	40.8	15.9	467	4.48	2.4	1.1	<0.5	15.5	21	<0.1	0.1	<0.1	56	0.46	0.113
PAN-48203	Soil	1.4	22.9	8.5	89	<0.1	31.7	15.4	797	3.64	6.2	0.9	1.5	6.6	19	0.1	0.3	0.1	66	0.29	0.081
PAN-48204	Soil	1.9	62.2	8.7	92	<0.1	42.7	14.4	375	4.51	2.5	2.0	<0.5	12.2	17	<0.1	0.1	0.1	78	0.38	0.108
PAN-48205	Soil	2.0	57.9	8.6	105	<0.1	48.4	16.9	416	4.94	1.6	2.1	<0.5	14.9	17	<0.1	0.1	0.1	79	0.41	0.121
PAN-48206	Soil	0.4	35.7	3.8	69	<0.1	324.5	36.4	539	4.50	0.8	0.8	<0.5	10.5	20	<0.1	<0.1	<0.1	73	0.49	0.102
PAN-48207	Soil	1.9	32.7	5.8	53	<0.1	20.5	9.9	282	3.38	4.7	1.4	1.0	6.4	23	<0.1	0.2	0.1	103	0.26	0.070
PAN-48208	Soil	2.2	88.6	10.9	153	<0.1	104.5	16.5	801	5.40	4.6	1.3	0.7	12.1	31	0.3	0.2	0.2	136	0.44	0.101
PAN-48209	Soil	6.6	77.4	15.7	450	0.4	125.0	13.5	353	3.87	33.0	1.6	<0.5	0.9	75	4.2	0.5	0.2	267	0.45	0.325
PAN-48211	Soil	8.7	209.2	12.7	698	0.4	185.3	8.1	91	3.33	118.5	3.9	1.3	2.5	157	5.2	1.4	0.2	604	1.45	0.812
PAN-48212	Soil	7.9	98.6	10.2	173	0.3	87.5	18.1	523	4.57	3.2	1.0	<0.5	5.1	22	0.8	0.1	0.1	65	0.08	0.043
PAN-48213	Soil	6.4	63.3	18.8	199	0.2	72.5	10.8	269	2.99	17.1	1.4	<0.5	2.5	73	1.1	0.4	0.3	128	0.82	0.409
PAN-48216	Soil	0.8	12.8	6.3	54	<0.1	26.0	11.2	542	3.07	5.3	0.5	4.0	4.3	23	<0.1	0.3	0.1	65	0.31	0.023
PAN-48217	Soil	0.9	27.3	9.1	69	<0.1	33.3	14.9	381	3.49	7.5	0.7	<0.5	14.1	19	0.1	0.3	0.1	60	0.30	0.038
PAN-48218	Soil	1.6	44.9	10.4	104	0.1	64.7	18.7	766	4.36	5.8	0.9	2.6	11.8	25	0.2	0.2	0.1	101	0.69	0.081
PAN-48219	Soil	0.9	31.8	7.7	54	<0.1	21.5	14.1	350	3.41	8.5	0.6	<0.5	3.1	17	0.1	0.4	0.1	89	0.19	0.019
PAN-48220	Soil	1.3	72.4	8.2	61	<0.1	22.1	15.3	386	4.04	10.8	0.6	<0.5	3.0	18	<0.1	0.4	0.1	98	0.24	0.028
PAN-48221	Soil	1.0	22.4	10.5	75	<0.1	21.3	12.3	451	3.88	7.9	0.6	0.7	4.0	13	<0.1	0.3	0.1	77	0.12	0.026
PAN-48222	Soil	1.1	21.8	8.9	57	<0.1	25.4	11.0	445	3.01	10.6	0.6	<0.5	3.0	17	0.1	0.5	0.1	72	0.18	0.027
PAN-48223	Soil	0.7	133.4	2.4	64	<0.1	57.4	40.1	574	3.58	1.6	0.4	<0.5	0.8	21	<0.1	<0.1	<0.1	84	0.39	0.049
PAN-48224	Soil	0.7	134.2	2.5	69	<0.1	57.3	37.5	582	3.76	2.0	0.5	<0.5	0.8	21	<0.1	0.1	<0.1	86	0.40	0.044
PAN-48225	Soil	0.4	189.4	3.7	76	<0.1	22.7	39.4	1124	7.43	2.8	0.6	<0.5	1.2	87	<0.1	0.1	<0.1	210	2.13	0.773
PAN-48226	Soil	1.0	49.3	7.0	92	<0.1	19.9	14.7	501	3.60	7.6	0.3	<0.5	1.7	18	0.2	0.3	0.1	99	0.30	0.045
PAN-48227	Soil	1.3	42.1	9.2	53	<0.1	28.2	17.0	428	3.36	10.4	0.7	4.4	3.2	19	<0.1	0.6	0.2	88	0.21	0.026
PAN-48228	Soil	0.8	194.2	3.9	47	0.2	11.3	26.8	438	6.18	2.5	0.4	<0.5	0.7	27	0.1	0.2	<0.1	174	0.51	0.032
PAN-48229	Soil	0.9	33.9	9.4	56	<0.1	23.4	10.7	424	3.15	8.5	1.0	2.4	3.0	21	<0.1	0.5	0.2	70	0.24	0.030



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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-48196	Soil	20	56	0.85	249	0.117	<1	2.31	0.018	0.28	0.1	0.02	4.4	0.3	<0.05	7	<0.5
PAN-48197	Soil	85	118	1.57	236	0.319	<1	3.09	0.008	1.34	<0.1	<0.01	5.5	0.7	<0.05	12	<0.5
PAN-48198	Soil	25	44	0.85	215	0.192	<1	2.08	0.006	0.89	<0.1	<0.01	4.5	0.4	<0.05	7	<0.5
PAN-48199	Soil	9	47	0.51	250	0.066	<1	1.90	0.016	0.06	<0.1	<0.01	3.2	0.1	<0.05	7	<0.5
PAN-48200	Soil	16	70	1.73	250	0.210	<1	2.91	0.008	1.28	<0.1	<0.01	4.4	0.7	<0.05	11	<0.5
PAN-48202	Soil	40	58	1.02	273	0.289	<1	2.48	0.009	0.90	<0.1	<0.01	3.7	0.6	<0.05	8	<0.5
PAN-48203	Soil	13	52	0.75	295	0.145	<1	2.14	0.013	0.47	<0.1	<0.01	2.9	0.3	<0.05	7	<0.5
PAN-48204	Soil	56	75	1.35	213	0.143	1	2.85	0.012	0.70	<0.1	0.01	6.0	0.6	<0.05	10	<0.5
PAN-48205	Soil	62	90	1.47	205	0.159	<1	3.06	0.008	0.87	<0.1	<0.01	6.6	0.7	<0.05	10	0.7
PAN-48206	Soil	51	427	3.01	254	0.222	<1	3.23	0.008	1.24	<0.1	<0.01	5.1	0.9	<0.05	10	<0.5
PAN-48207	Soil	17	50	0.87	779	0.142	<1	2.17	0.011	0.63	<0.1	<0.01	3.5	0.3	0.07	8	<0.5
PAN-48208	Soil	33	142	1.51	2107	0.129	2	2.38	0.009	0.77	<0.1	0.03	12.8	0.4	<0.05	10	1.4
PAN-48209	Soil	8	40	0.19	3016	0.031	1	1.51	0.010	0.09	0.5	0.01	3.4	<0.1	<0.05	6	3.4
PAN-48211	Soil	11	66	0.15	3583	0.016	4	1.60	0.005	0.15	2.3	0.11	4.2	0.1	<0.05	5	3.7
PAN-48212	Soil	9	36	0.16	245	0.009	2	0.80	0.003	0.10	<0.1	<0.01	4.6	0.4	<0.05	3	6.5
PAN-48213	Soil	9	47	0.31	6271	0.038	2	2.00	0.011	0.08	0.3	0.03	3.8	<0.1	<0.05	6	2.3
PAN-48216	Soil	13	41	0.81	264	0.098	2	1.94	0.011	0.27	<0.1	<0.01	3.3	0.1	<0.05	6	<0.5
PAN-48217	Soil	19	44	0.69	218	0.088	<1	2.11	0.010	0.36	0.1	<0.01	4.5	0.2	<0.05	6	<0.5
PAN-48218	Soil	37	109	1.78	1014	0.133	<1	2.91	0.016	0.68	0.1	0.02	6.0	0.4	<0.05	10	0.8
PAN-48219	Soil	9	36	0.68	252	0.121	<1	2.31	0.013	0.08	0.1	0.01	4.1	0.1	<0.05	6	<0.5
PAN-48220	Soil	9	34	0.66	227	0.117	<1	2.42	0.024	0.13	0.1	<0.01	5.0	0.2	<0.05	7	<0.5
PAN-48221	Soil	11	35	0.68	247	0.144	<1	2.45	0.010	0.41	0.2	0.01	5.6	0.2	<0.05	8	<0.5
PAN-48222	Soil	11	38	0.54	350	0.073	<1	2.32	0.012	0.06	0.1	0.02	3.6	0.1	<0.05	6	<0.5
PAN-48223	Soil	2	110	1.68	152	0.176	<1	2.40	0.050	0.44	<0.1	<0.01	4.5	0.2	<0.05	6	<0.5
PAN-48224	Soil	3	112	1.74	162	0.187	<1	2.55	0.051	0.45	<0.1	<0.01	4.8	0.2	<0.05	6	<0.5
PAN-48225	Soil	15	33	1.79	740	0.066	<1	3.09	0.084	0.59	<0.1	0.01	13.9	0.2	<0.05	11	<0.5
PAN-48226	Soil	6	33	0.87	211	0.147	<1	1.88	0.022	0.17	0.1	<0.01	3.3	0.1	<0.05	8	<0.5
PAN-48227	Soil	12	44	0.72	333	0.097	<1	2.57	0.017	0.07	0.1	0.02	4.6	0.1	<0.05	7	<0.5
PAN-48228	Soil	3	15	1.30	253	0.221	<1	1.91	0.095	0.48	<0.1	<0.01	6.5	0.2	0.18	7	1.4
PAN-48229	Soil	13	40	0.58	267	0.082	<1	1.91	0.014	0.05	0.1	0.02	4.9	<0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		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-48230	Soil	1.0	42.7	9.5	65	<0.1	24.1	14.4	372	3.26	9.1	0.9	2.6	3.9	18	<0.1	0.5	0.2	73	0.19
PAN-48231	Soil	0.9	54.5	25.5	106	<0.1	20.9	12.8	432	3.88	12.1	0.7	5.4	3.1	17	0.2	0.4	0.3	86	0.19
PAN-48232	Soil	1.5	60.1	17.1	140	<0.1	45.0	14.9	490	4.52	8.5	1.6	1.9	8.7	22	0.2	0.2	0.2	90	0.26
PAN-48233	Soil	1.5	55.3	14.9	108	<0.1	34.2	11.6	350	3.96	13.7	1.9	2.7	8.1	20	<0.1	0.3	0.2	60	0.19
PAN-48234	Soil	1.5	55.3	10.5	130	<0.1	39.5	12.5	416	4.50	75.4	2.4	2.5	11.0	23	0.1	0.3	0.2	82	0.25
PAN-48238	Soil	0.9	27.6	9.1	63	<0.1	22.7	10.1	385	3.09	9.5	0.7	5.2	3.0	15	<0.1	0.5	0.2	63	0.15
PAN-48242	Soil	1.6	36.8	11.6	72	<0.1	27.8	10.1	246	3.25	11.2	1.7	2.7	6.2	19	0.1	0.4	0.2	70	0.19
PAN-48243	Soil	0.7	28.4	12.8	70	<0.1	19.0	10.6	378	3.18	7.7	0.6	1.4	2.2	17	<0.1	0.3	0.1	58	0.17
PAN-48244	Soil	0.6	50.7	9.9	74	<0.1	16.4	24.9	606	5.17	5.7	0.8	2.2	2.2	26	<0.1	0.4	0.1	158	0.40
PAN-48245	Soil	0.7	27.7	11.4	49	<0.1	26.2	13.0	269	3.03	10.8	0.7	2.2	3.9	15	<0.1	0.6	0.2	71	0.15
PAN-48247	Soil	0.4	34.7	3.3	86	<0.1	6.1	19.9	687	5.12	3.3	0.5	1.5	1.8	44	<0.1	0.1	<0.1	108	0.68
PAN-48249	Soil	1.1	44.4	9.6	60	0.2	21.5	12.2	304	3.59	10.7	0.8	3.6	4.3	15	<0.1	0.6	0.2	75	0.18
PAN-48250	Soil	1.2	49.9	10.9	61	<0.1	20.9	11.4	298	3.36	11.8	0.8	1.1	5.2	16	<0.1	0.5	0.1	76	0.15
PAN-48251	Soil	2.6	75.3	15.7	137	0.2	88.1	22.1	998	3.95	9.5	1.3	1.8	13.4	31	1.0	0.3	0.2	45	2.29
PAN-48252	Soil	0.9	19.2	16.1	64	<0.1	27.3	15.0	484	3.07	4.1	0.5	2.2	5.2	26	<0.1	0.3	0.1	67	0.30
PAN-48257	Soil	0.9	25.1	5.8	86	<0.1	19.4	18.4	575	4.25	4.5	0.6	1.8	3.9	79	<0.1	0.3	<0.1	94	0.64
PAN-48258	Soil	1.0	18.6	8.4	81	<0.1	18.0	15.3	968	3.37	6.1	0.4	1.3	1.8	124	0.1	0.4	0.1	86	0.59
PAN-48259	Soil	0.8	16.2	7.3	59	<0.1	16.0	12.7	517	3.09	5.2	0.3	8.9	2.2	76	<0.1	0.3	<0.1	75	0.48
PAN-48263	Soil	0.5	19.2	7.1	48	<0.1	18.8	8.6	332	2.38	6.0	0.7	2.3	3.0	21	<0.1	0.3	<0.1	69	0.24
PAN-48274	Soil	1.4	25.1	9.8	68	<0.1	21.4	12.4	413	3.28	10.0	1.1	3.2	4.0	20	<0.1	0.5	0.2	80	0.20
PAN-48275	Soil	0.6	27.2	7.0	50	<0.1	21.7	9.7	275	2.55	7.0	0.7	2.9	3.2	21	<0.1	0.4	0.1	63	0.24
PAN-48276	Soil	0.6	27.2	7.0	51	<0.1	21.0	9.7	268	2.52	7.3	0.8	3.3	3.3	21	<0.1	0.4	0.1	63	0.25
PAN-48277	Soil	0.6	27.3	6.1	52	<0.1	18.7	8.9	289	2.60	5.9	0.8	1.2	2.8	29	<0.1	0.3	<0.1	69	0.31
PAN-48278	Soil	0.7	23.1	8.0	60	<0.1	22.8	12.3	313	2.91	7.8	0.5	1.6	3.0	20	<0.1	0.4	0.1	75	0.21
PAN-48280	Soil	1.1	19.4	9.2	54	0.1	19.3	11.1	662	3.05	9.1	0.4	3.7	2.0	20	0.1	0.5	0.2	79	0.20
PAN-48282	Soil	0.9	23.5	8.4	52	<0.1	19.1	10.9	384	2.67	7.7	0.9	3.6	3.2	23	<0.1	0.4	0.1	70	0.25
PAN-48287	Soil	0.8	21.1	8.3	51	<0.1	17.2	9.2	507	2.73	8.0	0.6	2.1	2.8	25	<0.1	0.4	0.2	75	0.25
PAN-48288	Soil	0.7	25.9	9.8	49	<0.1	17.1	10.1	470	2.64	7.3	1.1	3.4	3.2	25	0.1	0.4	0.1	67	0.28
PAN-48291	Soil	0.5	16.0	6.3	43	<0.1	14.4	6.9	374	2.09	5.8	0.7	4.7	2.3	27	0.2	0.3	0.1	55	0.34
PAN-48293	Soil	0.5	18.6	6.1	43	<0.1	15.0	7.5	317	2.20	6.4	0.8	1.4	2.7	27	<0.1	0.3	<0.1	57	0.36



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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-48230	Soil	11	36	0.67	216	0.100	<1	2.30	0.015	0.09	0.1	0.01	4.3	0.2	<0.05	6	0.5
PAN-48231	Soil	11	34	0.64	214	0.086	<1	2.03	0.019	0.08	<0.1	0.02	5.7	0.1	<0.05	6	0.7
PAN-48232	Soil	31	49	0.70	482	0.174	2	1.98	0.011	0.77	<0.1	0.02	5.2	0.5	<0.05	7	0.6
PAN-48233	Soil	29	30	0.43	387	0.052	3	1.38	0.013	0.24	<0.1	0.02	5.4	0.2	<0.05	5	1.0
PAN-48234	Soil	40	42	0.70	507	0.169	2	1.93	0.009	0.83	<0.1	0.01	5.3	0.6	<0.05	7	0.7
PAN-48238	Soil	9	32	0.54	165	0.091	<1	2.13	0.009	0.08	0.1	0.02	3.9	0.1	<0.05	6	0.5
PAN-48242	Soil	33	39	0.58	221	0.100	1	1.96	0.012	0.20	<0.1	0.02	3.5	0.2	<0.05	6	0.8
PAN-48243	Soil	10	28	0.68	144	0.107	2	1.92	0.012	0.16	<0.1	0.01	3.6	0.2	<0.05	6	0.7
PAN-48244	Soil	13	21	1.19	421	0.208	<1	2.25	0.041	0.43	<0.1	0.01	9.6	0.2	<0.05	8	0.7
PAN-48245	Soil	10	38	0.59	205	0.087	1	2.36	0.013	0.06	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5
PAN-48247	Soil	9	8	1.15	399	0.291	<1	2.28	0.032	0.63	<0.1	<0.01	5.8	0.2	<0.05	9	<0.5
PAN-48249	Soil	11	38	0.59	267	0.099	<1	2.39	0.019	0.13	0.2	0.01	4.8	<0.1	<0.05	6	<0.5
PAN-48250	Soil	8	36	0.58	156	0.104	<1	2.13	0.010	0.07	0.2	0.02	3.0	<0.1	<0.05	7	0.5
PAN-48251	Soil	43	59	0.73	874	0.020	2	1.42	0.006	0.31	<0.1	0.04	4.8	0.2	<0.05	5	2.1
PAN-48252	Soil	15	50	0.70	264	0.093	<1	1.94	0.012	0.18	<0.1	<0.01	3.0	0.1	<0.05	6	<0.5
PAN-48257	Soil	11	44	0.89	240	0.144	<1	2.33	0.031	0.09	0.1	<0.01	6.8	<0.1	<0.05	8	<0.5
PAN-48258	Soil	7	37	0.71	325	0.098	1	2.24	0.022	0.06	0.1	<0.01	4.8	<0.1	<0.05	7	<0.5
PAN-48259	Soil	8	34	0.61	309	0.103	<1	2.04	0.017	0.07	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5
PAN-48263	Soil	13	32	0.45	179	0.079	<1	1.56	0.012	0.04	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5
PAN-48274	Soil	13	49	0.58	195	0.084	2	2.23	0.012	0.05	0.1	0.03	5.0	0.1	<0.05	7	0.6
PAN-48275	Soil	12	42	0.58	205	0.072	<1	1.71	0.013	0.04	0.1	0.02	3.9	<0.1	<0.05	5	<0.5
PAN-48276	Soil	13	42	0.59	201	0.073	<1	1.69	0.013	0.04	<0.1	0.01	4.0	<0.1	<0.05	5	0.7
PAN-48277	Soil	12	35	0.62	336	0.088	<1	1.74	0.019	0.04	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5
PAN-48278	Soil	7	38	0.56	179	0.089	<1	2.44	0.016	0.05	0.1	0.02	3.4	<0.1	<0.05	6	<0.5
PAN-48280	Soil	7	33	0.48	275	0.068	<1	1.86	0.013	0.05	0.2	0.01	2.4	0.1	<0.05	7	<0.5
PAN-48282	Soil	11	36	0.54	213	0.075	<1	1.76	0.015	0.04	0.2	0.02	4.0	<0.1	<0.05	5	0.5
PAN-48287	Soil	9	32	0.46	300	0.072	<1	1.92	0.013	0.05	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5
PAN-48288	Soil	11	30	0.44	232	0.070	<1	1.73	0.014	0.04	0.1	0.01	3.7	<0.1	<0.05	5	<0.5
PAN-48291	Soil	9	25	0.40	206	0.063	<1	1.37	0.015	0.04	0.1	0.01	2.7	<0.1	<0.05	4	<0.5
PAN-48293	Soil	11	27	0.43	214	0.066	<1	1.30	0.017	0.03	0.1	0.01	3.2	<0.1	<0.05	4	0.6



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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			
					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-48294	Soil		0.5	17.0	6.8	45	<0.1	16.4	6.8	271	2.36	6.7	0.5	2.1	2.4	27	<0.1	0.3	0.1	63	0.34	0.029		
PAN-48296	Soil		3.5	91.2	4.2	83	<0.1	12.5	29.0	656	5.80	5.4	1.1	1.7	3.5	12	<0.1	0.2	0.2	113	0.15	0.052		
PAN-48304	Soil		0.9	18.5	8.2	59	<0.1	18.0	10.0	450	3.25	8.9	0.5	3.0	2.2	16	<0.1	0.3	0.1	86	0.19	0.050		
PAN-48305	Soil		0.6	23.9	7.3	46	<0.1	18.2	8.7	291	2.70	6.4	1.0	1.6	3.6	27	<0.1	0.4	0.1	73	0.33	0.024		
PAN-48306	Soil		0.7	17.7	7.5	42	<0.1	13.2	7.6	277	2.52	6.0	0.8	3.0	2.9	27	<0.1	0.3	0.1	70	0.32	0.025		
PAN-48307	Soil		0.8	23.3	9.6	49	<0.1	16.0	9.5	354	2.92	7.4	0.6	2.1	3.1	24	<0.1	0.4	0.1	83	0.33	0.029		
PAN-48308	Soil		0.9	15.5	6.9	39	<0.1	14.2	7.0	336	2.22	5.6	0.5	1.7	2.4	23	<0.1	0.3	0.1	67	0.30	0.022		
PAN-48309	Soil		1.0	26.8	8.2	46	<0.1	17.3	8.7	281	2.74	6.1	0.6	1.6	2.6	24	<0.1	0.3	0.1	83	0.32	0.029		
PAN-48310	Soil		0.6	31.1	7.2	59	<0.1	13.3	8.0	285	3.22	5.1	0.7	1.8	5.1	22	<0.1	0.3	<0.1	75	0.43	0.025		
PAN-48311	Soil		0.8	36.2	6.8	55	<0.1	13.3	8.9	310	3.19	5.4	0.6	1.1	4.3	24	0.1	0.3	<0.1	70	0.47	0.026		
PAN-48312	Soil		0.6	23.6	5.8	45	<0.1	9.2	5.4	244	2.20	3.1	0.5	1.5	2.7	22	0.2	0.2	<0.1	62	0.25	0.024		
PAN-48313	Soil		1.2	16.5	7.4	46	<0.1	14.8	8.3	281	2.68	6.2	0.4	1.0	2.4	17	0.1	0.5	0.1	71	0.24	0.015		
PAN-48314	Soil		1.2	18.9	8.1	55	<0.1	15.4	8.5	419	2.98	6.9	0.6	1.1	2.7	14	<0.1	0.4	0.1	75	0.14	0.016		
PAN-48315	Soil		0.7	13.4	8.2	49	<0.1	9.4	7.9	397	3.01	4.2	0.5	2.3	2.6	25	<0.1	0.4	<0.1	87	0.32	0.032		
PAN-48316	Soil		1.4	18.4	10.7	53	<0.1	15.0	11.1	599	3.01	7.4	0.5	<0.5	2.6	23	0.1	0.5	0.1	77	0.23	0.025		
PAN-48317	Soil		0.6	38.8	8.3	57	<0.1	20.8	10.1	437	3.15	7.7	0.9	3.0	4.3	36	<0.1	0.4	0.1	73	0.48	0.035		
PAN-48318	Soil		0.8	36.5	9.9	52	<0.1	13.7	10.0	223	3.56	7.6	0.9	1.0	4.5	23	<0.1	0.4	0.1	72	0.17	0.015		
PAN-48319	Soil		1.1	15.4	8.1	35	<0.1	11.9	5.9	156	2.17	6.0	0.4	1.4	2.3	16	<0.1	0.3	0.1	64	0.16	0.015		
PAN-48320	Soil		1.0	16.8	8.3	49	<0.1	14.4	9.6	310	3.18	7.8	0.5	4.6	3.0	17	<0.1	0.4	0.1	84	0.20	0.022		
PAN-48321	Soil		0.6	32.8	6.5	54	<0.1	36.1	14.4	637	3.34	7.0	0.7	1.4	3.6	35	<0.1	0.5	<0.1	86	0.50	0.046		
PAN-48322	Soil		0.4	48.7	8.7	77	<0.1	14.8	15.3	640	3.86	4.2	0.6	1.0	4.4	49	0.1	0.2	<0.1	100	0.62	0.061		
PAN-48323	Soil		0.5	35.2	7.6	54	<0.1	25.1	10.5	381	2.61	7.5	1.2	2.8	3.2	40	0.2	0.5	0.1	61	0.62	0.052		
PAN-48325	Soil		0.6	37.3	7.0	53	<0.1	24.5	10.8	406	2.53	8.2	0.7	2.7	2.8	44	0.2	0.6	0.1	61	0.71	0.057		
PAN-48326	Soil		0.7	32.8	7.2	53	<0.1	24.9	11.6	449	2.52	8.3	1.1	3.4	2.9	39	0.2	0.6	0.1	61	0.64	0.063		
PAN-48328	Soil		0.9	24.7	6.7	52	<0.1	20.4	10.7	390	2.34	6.5	0.9	1.4	2.5	33	0.2	0.5	0.1	60	0.56	0.061		
PAN-48329	Soil		0.6	30.0	6.2	50	<0.1	23.0	11.3	412	2.43	6.8	0.5	1.4	2.6	36	0.2	0.5	0.1	63	0.64	0.065		
PAN-48337	Soil		1.2	16.9	16.0	62	<0.1	14.5	8.6	452	2.76	7.8	0.5	0.6	2.2	12	0.1	0.4	0.3	65	0.13	0.028		
PAN-48338	Soil		1.1	18.2	12.7	76	<0.1	18.7	10.5	325	3.07	8.8	0.4	1.0	2.6	11	0.1	0.5	0.2	72	0.10	0.023		
PAN-48339	Soil		0.9	17.8	17.1	71	<0.1	17.8	9.4	539	2.95	9.3	0.4	<0.5	2.2	15	<0.1	0.4	0.2	71	0.18	0.026		
PAN-48336	Soil		1.2	19.3	17.9	61	<0.1	16.4	8.6	262	3.13	7.3	0.4	4.6	2.5	11	0.1	0.4	0.2	65	0.11	0.021		



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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-48294	Soil	10	29	0.47	220	0.074	<1	1.54	0.015	0.04	0.2	<0.01	3.0	<0.1	<0.05	5	0.5
PAN-48296	Soil	12	22	1.39	313	0.197	<1	2.70	0.011	0.71	<0.1	<0.01	12.0	0.2	<0.05	9	2.2
PAN-48304	Soil	9	36	0.44	147	0.083	<1	2.04	0.012	0.05	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5
PAN-48305	Soil	16	34	0.47	217	0.083	<1	1.82	0.016	0.04	0.1	0.02	5.3	<0.1	<0.05	5	0.6
PAN-48306	Soil	12	28	0.42	196	0.071	<1	1.55	0.016	0.03	0.1	0.02	3.8	<0.1	<0.05	5	<0.5
PAN-48307	Soil	9	35	0.52	167	0.084	<1	1.89	0.015	0.03	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5
PAN-48308	Soil	9	30	0.42	174	0.068	<1	1.44	0.012	0.03	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5
PAN-48309	Soil	10	42	0.53	163	0.078	<1	1.80	0.014	0.04	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5
PAN-48310	Soil	10	22	0.32	185	0.020	<1	1.58	0.009	0.05	<0.1	0.02	10.0	<0.1	<0.05	4	<0.5
PAN-48311	Soil	9	21	0.34	186	0.024	<1	1.56	0.010	0.06	<0.1	0.02	8.7	<0.1	<0.05	5	<0.5
PAN-48312	Soil	10	17	0.24	223	0.045	1	1.03	0.012	0.06	<0.1	0.02	5.8	<0.1	<0.05	4	<0.5
PAN-48313	Soil	8	28	0.37	154	0.062	<1	1.58	0.011	0.05	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5
PAN-48314	Soil	7	29	0.35	188	0.049	<1	1.64	0.011	0.05	0.1	<0.01	4.1	<0.1	<0.05	5	<0.5
PAN-48315	Soil	5	26	0.81	104	0.083	<1	1.70	0.021	0.07	<0.1	<0.01	7.2	<0.1	<0.05	7	<0.5
PAN-48316	Soil	7	28	0.44	197	0.068	<1	1.67	0.010	0.05	0.1	0.01	3.6	<0.1	<0.05	6	<0.5
PAN-48317	Soil	16	29	0.52	230	0.072	<1	1.69	0.021	0.04	<0.1	0.05	8.7	<0.1	<0.05	5	<0.5
PAN-48318	Soil	12	26	0.40	180	0.062	<1	1.78	0.010	0.03	<0.1	0.01	7.4	<0.1	<0.05	6	<0.5
PAN-48319	Soil	8	24	0.28	161	0.061	<1	1.40	0.009	0.03	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5
PAN-48320	Soil	7	25	0.52	183	0.091	<1	1.87	0.016	0.05	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-48321	Soil	10	92	0.78	265	0.108	<1	1.64	0.040	0.12	<0.1	0.03	8.2	<0.1	<0.05	5	<0.5
PAN-48322	Soil	13	31	0.92	225	0.126	<1	1.68	0.027	0.11	<0.1	0.02	8.9	<0.1	<0.05	7	<0.5
PAN-48323	Soil	13	33	0.55	271	0.087	1	1.53	0.027	0.05	0.1	0.04	4.7	<0.1	<0.05	5	<0.5
PAN-48325	Soil	13	30	0.51	298	0.081	<1	1.41	0.028	0.05	0.2	0.03	4.2	<0.1	<0.05	4	<0.5
PAN-48326	Soil	12	30	0.49	276	0.074	<1	1.42	0.024	0.04	0.2	0.03	3.9	<0.1	<0.05	4	0.7
PAN-48328	Soil	11	28	0.46	249	0.073	<1	1.45	0.022	0.05	0.2	0.03	3.5	<0.1	<0.05	4	0.7
PAN-48329	Soil	11	29	0.56	215	0.096	1	1.46	0.031	0.06	0.2	0.02	3.6	<0.1	<0.05	4	<0.5
PAN-48337	Soil	7	28	0.38	173	0.062	<1	1.69	0.009	0.06	0.1	0.01	3.7	<0.1	<0.05	6	<0.5
PAN-48338	Soil	8	34	0.46	189	0.081	<1	2.10	0.009	0.08	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5
PAN-48339	Soil	6	35	0.48	214	0.070	<1	1.95	0.009	0.08	0.1	0.01	3.2	<0.1	<0.05	7	<0.5
PAN-48336	Soil	6	30	0.36	165	0.071	<1	1.77	0.008	0.05	0.1	<0.01	4.5	<0.1	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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-44423	Soil	1.2	58.4	13.7	125	<0.1	42.9	11.8	376	3.20	101.2	1.8	2.0	9.8	19	<0.1	0.3	0.3	22	0.18	0.054
REP PAN-44423	QC	1.3	58.6	13.7	123	<0.1	42.5	11.8	387	3.26	103.4	1.8	1.0	9.9	19	<0.1	0.3	0.3	21	0.19	0.055
PAN-44463	Soil	0.2	25.9	5.8	81	<0.1	11.0	13.5	819	5.25	2.7	0.4	0.6	4.9	22	<0.1	0.3	<0.1	65	0.61	0.080
REP PAN-44463	QC	0.2	26.1	5.8	83	<0.1	10.0	13.8	801	5.29	2.6	0.4	0.8	5.0	23	<0.1	0.4	<0.1	61	0.60	0.081
PAN-44471	Soil	0.8	20.1	15.0	57	<0.1	18.7	14.7	462	3.60	9.7	0.4	1.1	1.9	27	<0.1	0.4	0.1	90	0.28	0.046
REP PAN-44471	QC	0.7	19.9	15.1	56	<0.1	18.4	14.1	441	3.47	9.9	0.4	7.5	2.0	27	0.1	0.4	0.1	92	0.28	0.047
PAN-44677	Soil	0.8	34.6	18.1	257	0.1	15.2	7.4	404	3.14	11.2	0.6	1.8	2.5	20	0.5	0.5	0.2	58	0.22	0.015
REP PAN-44677	QC	0.8	36.5	19.0	266	0.1	15.7	7.7	426	3.29	12.0	0.6	1.3	2.6	21	0.4	0.5	0.2	59	0.23	0.016
PAN-44831	Soil	0.9	22.7	11.5	64	0.1	21.7	10.2	406	2.98	8.3	0.7	3.1	3.1	22	0.1	0.4	0.2	72	0.15	0.018
REP PAN-44831	QC	0.9	22.0	12.0	63	0.1	21.3	10.1	407	2.96	8.1	0.6	1.7	3.1	22	0.1	0.4	0.2	72	0.15	0.018
PAN-44836	Soil	0.8	18.0	11.2	49	<0.1	18.6	8.7	359	2.68	8.9	0.6	1.2	3.4	18	<0.1	0.5	0.2	54	0.12	0.023
REP PAN-44836	QC	0.8	17.7	11.1	48	<0.1	17.8	8.2	352	2.60	8.9	0.6	2.1	3.1	17	<0.1	0.5	0.2	56	0.12	0.022
PAN-47720	Soil	0.7	25.2	6.7	53	<0.1	11.0	13.5	489	3.90	5.7	0.2	<0.5	2.0	16	0.1	0.3	<0.1	90	0.38	0.110
REP PAN-47720	QC	0.8	25.7	6.8	54	<0.1	11.7	13.2	482	3.85	6.1	0.2	<0.5	1.9	16	0.1	0.2	<0.1	88	0.38	0.111
PAN-47738	Soil	1.0	14.1	7.0	58	<0.1	26.0	13.6	453	3.57	6.7	0.3	<0.5	3.7	23	<0.1	0.4	0.1	79	0.26	0.025
REP PAN-47738	QC	0.9	15.5	7.4	65	<0.1	28.4	13.6	454	3.81	7.2	0.4	0.7	3.8	23	<0.1	0.3	0.1	82	0.26	0.025
PAN-47757	Soil	1.2	28.0	26.5	86	<0.1	16.0	16.4	1304	4.53	5.2	0.5	0.5	2.0	13	<0.1	1.1	0.2	77	0.29	0.022
REP PAN-47757	QC	1.2	27.2	26.6	83	<0.1	15.6	16.2	1283	4.51	4.8	0.5	2.1	2.0	13	<0.1	0.9	0.2	72	0.26	0.023
PAN-47768	Soil	0.3	37.9	144.3	73	<0.1	11.2	21.3	628	4.47	2.3	0.2	0.9	1.3	46	<0.1	0.1	0.2	123	0.47	0.023
REP PAN-47768	QC	0.3	39.2	144.4	72	<0.1	9.8	21.3	617	4.12	2.4	0.2	<0.5	1.3	47	<0.1	0.1	0.2	122	0.51	0.024
PAN-48009	Soil	0.7	25.6	71.7	87	0.1	28.4	13.8	576	3.46	7.8	0.7	0.5	5.9	198	<0.1	0.4	0.5	84	0.24	0.049
REP PAN-48009	QC	0.7	26.2	73.0	87	<0.1	27.8	13.5	569	3.40	7.6	0.7	1.0	5.8	190	0.2	0.4	0.5	84	0.23	0.047
PAN-48035	Soil	1.2	25.0	9.8	54	0.2	20.1	10.9	465	3.27	9.6	0.6	<0.5	2.4	11	0.1	0.5	0.2	73	0.12	0.029
REP PAN-48035	QC	1.2	23.9	9.3	54	0.2	20.9	10.8	446	3.19	9.4	0.7	1.8	2.4	11	0.1	0.5	0.2	72	0.12	0.028
PAN-48204	Soil	1.9	62.2	8.7	92	<0.1	42.7	14.4	375	4.51	2.5	2.0	<0.5	12.2	17	<0.1	0.1	0.1	78	0.38	0.108
REP PAN-48204	QC	1.9	60.0	8.7	93	<0.1	41.9	14.4	380	4.56	2.6	1.9	<0.5	12.0	17	<0.1	0.1	0.1	79	0.38	0.109
PAN-48228	Soil	0.8	194.2	3.9	47	0.2	11.3	26.8	438	6.18	2.5	0.4	<0.5	0.7	27	0.1	0.2	<0.1	174	0.51	0.032
REP PAN-48228	QC	0.8	196.8	3.9	48	0.2	12.1	27.2	437	6.33	2.4	0.4	1.8	0.8	27	0.1	0.1	<0.1	171	0.50	0.033



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	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
Pulp Duplicates																
PAN-44423	Soil	21	13	0.17	374	0.006	2	0.70	0.005	0.16	<0.1	0.02	4.0	0.2	<0.05	2
REP PAN-44423	QC	22	13	0.17	380	0.009	1	0.72	0.005	0.16	<0.1	0.02	3.9	0.2	<0.05	2
PAN-44463	Soil	24	16	1.31	612	0.108	4	3.04	0.011	0.25	<0.1	0.03	12.2	0.2	<0.05	11
REP PAN-44463	QC	25	16	1.25	636	0.106	3	2.90	0.011	0.24	<0.1	0.04	12.0	0.1	<0.05	11
PAN-44471	Soil	8	34	0.87	140	0.157	3	2.04	0.022	0.09	0.1	0.02	4.3	<0.1	<0.05	7
REP PAN-44471	QC	8	34	0.85	136	0.158	2	1.98	0.018	0.10	0.1	0.01	4.3	<0.1	<0.05	7
PAN-44677	Soil	8	25	0.46	235	0.079	<1	1.52	0.010	0.12	0.1	0.01	6.6	<0.1	<0.05	6
REP PAN-44677	QC	8	26	0.47	235	0.083	2	1.57	0.009	0.12	0.1	<0.01	6.6	0.1	<0.05	6
PAN-44831	Soil	10	36	0.48	202	0.086	<1	2.12	0.010	0.03	0.1	0.02	4.0	<0.1	<0.05	6
REP PAN-44831	QC	10	36	0.49	200	0.086	1	2.11	0.012	0.03	<0.1	0.02	4.1	<0.1	<0.05	6
PAN-44836	Soil	8	30	0.51	200	0.052	<1	2.01	0.010	0.05	0.2	0.02	2.6	<0.1	<0.05	5
REP PAN-44836	QC	8	30	0.48	196	0.054	<1	2.06	0.009	0.05	0.1	0.03	2.9	<0.1	<0.05	6
PAN-47720	Soil	7	29	0.84	279	0.125	<1	2.01	0.040	0.23	<0.1	0.02	4.2	0.1	<0.05	7
REP PAN-47720	QC	7	30	0.83	287	0.130	<1	2.03	0.038	0.25	<0.1	<0.01	4.0	<0.1	<0.05	8
PAN-47738	Soil	7	57	0.84	394	0.164	<1	2.19	0.012	0.43	<0.1	0.01	3.5	0.1	<0.05	8
REP PAN-47738	QC	7	59	0.85	392	0.179	1	2.31	0.014	0.44	0.1	0.01	3.7	0.1	<0.05	8
PAN-47757	Soil	6	22	0.26	294	0.015	<1	1.30	0.007	0.07	0.4	0.02	5.5	<0.1	<0.05	4
REP PAN-47757	QC	6	22	0.25	288	0.014	1	1.28	0.007	0.06	0.5	0.02	5.2	<0.1	<0.05	3
PAN-47768	Soil	9	33	1.55	471	0.196	<1	1.98	0.024	0.19	<0.1	<0.01	8.5	0.2	<0.05	10
REP PAN-47768	QC	9	33	1.60	477	0.200	<1	2.19	0.028	0.18	<0.1	<0.01	8.7	0.2	<0.05	9
PAN-48009	Soil	11	44	0.66	248	0.125	<1	2.25	0.009	0.22	0.1	0.02	3.8	0.2	<0.05	7
REP PAN-48009	QC	10	46	0.65	246	0.119	<1	2.26	0.011	0.22	<0.1	0.02	3.8	0.2	<0.05	7
PAN-48035	Soil	9	36	0.43	168	0.059	<1	2.18	0.009	0.04	0.1	0.03	3.6	0.1	<0.05	7
REP PAN-48035	QC	9	34	0.42	166	0.056	<1	2.09	0.009	0.04	0.1	0.03	3.5	0.1	<0.05	7
PAN-48204	Soil	56	75	1.35	213	0.143	1	2.85	0.012	0.70	<0.1	0.01	6.0	0.6	<0.05	10
REP PAN-48204	QC	54	74	1.32	212	0.144	<1	2.78	0.008	0.70	<0.1	<0.01	6.0	0.6	<0.05	10
PAN-48228	Soil	3	15	1.30	253	0.221	<1	1.91	0.095	0.48	<0.1	<0.01	6.5	0.2	0.18	7
REP PAN-48228	QC	3	15	1.31	267	0.228	<1	1.95	0.091	0.48	<0.1	0.01	6.3	0.2	0.19	7



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
PAN-48233	Soil	1.5	55.3	14.9	108	<0.1	34.2	11.6	350	3.96	13.7	1.9	2.7	8.1	20	<0.1	0.3	0.2	60	0.19
REP PAN-48233	QC	1.5	54.4	14.2	105	<0.1	34.6	11.4	350	3.95	13.5	1.8	3.3	8.3	21	0.1	0.3	0.2	59	0.20
PAN-48276	Soil	0.6	27.2	7.0	51	<0.1	21.0	9.7	268	2.52	7.3	0.8	3.3	3.3	21	<0.1	0.4	0.1	63	0.25
REP PAN-48276	QC	0.6	26.3	6.8	50	<0.1	20.5	10.2	269	2.50	7.2	0.7	1.6	3.3	20	<0.1	0.4	0.1	64	0.25
PAN-48321	Soil	0.6	32.8	6.5	54	<0.1	36.1	14.4	637	3.34	7.0	0.7	1.4	3.6	35	<0.1	0.5	<0.1	86	0.50
REP PAN-48321	QC	0.5	32.0	6.3	54	<0.1	34.5	14.1	631	3.30	6.8	0.7	1.3	3.4	35	<0.1	0.4	<0.1	86	0.52
PAN-48336	Soil	1.2	19.3	17.9	61	<0.1	16.4	8.6	262	3.13	7.3	0.4	4.6	2.5	11	0.1	0.4	0.2	65	0.11
REP PAN-48336	QC	1.2	20.0	19.0	63	<0.1	16.2	8.4	262	3.14	7.2	0.4	7.2	2.5	11	0.1	0.4	0.2	64	0.12
Reference Materials																				
STD DS7	Standard	20.0	103.4	69.2	376	0.8	56.0	9.9	619	2.42	49.0	4.9	63.6	4.4	72	5.9	6.0	4.7	87	0.97
STD DS7	Standard	20.6	120.0	66.7	386	0.8	61.8	9.7	632	2.41	47.6	5.2	67.8	4.6	69	6.0	5.2	4.3	91	0.97
STD DS7	Standard	20.7	103.1	65.9	372	0.8	53.6	9.7	661	2.41	52.0	4.8	54.5	4.3	72	6.3	5.3	4.6	85	0.96
STD DS7	Standard	20.7	108.6	60.6	385	0.8	55.7	9.4	586	2.34	48.3	4.3	63.2	3.8	68	6.1	5.3	4.1	83	0.93
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
STD DS7	Standard	20.3	109.1	65.5	384	0.8	55.9	9.5	605	2.33	50.0	4.8	67.9	4.1	65	6.3	5.6	4.4	84	0.91
STD DS7	Standard	20.9	112.6	67.6	397	0.8	56.9	9.8	622	2.43	52.9	4.8	58.4	4.3	68	6.5	5.7	4.5	88	0.97
STD DS7	Standard	21.0	108.3	67.2	390	0.8	54.9	9.9	632	2.34	52.8	4.9	64.2	4.3	72	6.8	6.1	4.7	79	0.95
STD DS7	Standard	20.1	107.6	56.9	371	0.8	54.5	9.2	565	2.22	48.5	4.2	58.3	3.8	66	5.8	5.5	3.8	81	0.89
STD DS7	Standard	20.8	105.0	61.0	389	0.8	55.2	9.4	612	2.37	50.7	4.3	65.6	3.8	65	6.1	5.0	4.2	87	0.95
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
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: PAN

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VAN09003427.1

		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-48233	Soil	29	30	0.43	387	0.052	3	1.38	0.013	0.24	<0.1	0.02	5.4	0.2	<0.05	5	1.0
REP PAN-48233	QC	29	30	0.43	376	0.060	3	1.42	0.010	0.25	0.1	0.01	5.5	0.3	<0.05	5	1.2
PAN-48276	Soil	13	42	0.59	201	0.073	<1	1.69	0.013	0.04	<0.1	0.01	4.0	<0.1	<0.05	5	0.7
REP PAN-48276	QC	12	43	0.58	198	0.073	<1	1.72	0.014	0.04	<0.1	0.02	4.1	0.1	<0.05	5	<0.5
PAN-48321	Soil	10	92	0.78	265	0.108	<1	1.64	0.040	0.12	<0.1	0.03	8.2	<0.1	<0.05	5	<0.5
REP PAN-48321	QC	11	91	0.77	263	0.107	1	1.64	0.039	0.12	<0.1	0.03	8.3	0.1	<0.05	5	<0.5
PAN-48336	Soil	6	30	0.36	165	0.071	<1	1.77	0.008	0.05	0.1	<0.01	4.5	<0.1	<0.05	6	<0.5
REP PAN-48336	QC	7	30	0.37	168	0.074	<1	1.81	0.010	0.05	<0.1	<0.01	4.5	<0.1	<0.05	6	0.5
Reference Materials																	
STD DS7	Standard	13	206	1.00	398	0.120	38	0.95	0.091	0.45	3.8	0.21	2.4	4.3	0.18	5	3.5
STD DS7	Standard	13	217	1.04	380	0.139	35	1.05	0.102	0.46	3.8	0.18	3.4	4.4	0.23	5	3.4
STD DS7	Standard	12	233	1.02	408	0.118	41	1.08	0.105	0.45	3.8	0.19	2.5	4.0	0.18	5	3.9
STD DS7	Standard	12	195	1.01	381	0.128	34	1.01	0.089	0.43	3.7	0.17	2.5	3.9	0.22	5	3.6
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	Standard	12	188	1.02	398	0.111	38	0.97	0.087	0.41	4.0	0.17	2.0	4.2	0.20	5	3.0
STD DS7	Standard	12	199	1.04	400	0.118	42	1.01	0.098	0.45	3.8	0.19	2.3	4.0	0.19	4	3.8
STD DS7	Standard	12	183	1.03	405	0.108	39	1.05	0.104	0.44	4.2	0.20	2.5	4.2	0.19	5	3.4
STD DS7	Standard	12	173	0.95	380	0.119	35	0.94	0.085	0.40	3.7	0.17	2.4	3.9	0.17	5	3.4
STD DS7	Standard	13	194	1.01	395	0.113	39	1.01	0.104	0.45	3.7	0.19	2.7	4.2	0.20	5	3.6
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
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



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QUALITY CONTROL REPORT

VAN09003427.1

		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
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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QUALITY CONTROL REPORT

VAN09003427.1

		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
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