



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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

Submitted By: Shawn Ryan
Receiving Lab: Canada-Vancouver
Received: November 04, 2009
Report Date: November 24, 2009
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN09005509.1

CLIENT JOB INFORMATION

Project: MCK
Shipment ID: MCK 1
P.O. Number
Number of Samples: 249

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:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	249	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	249	Dry at 60C			VAN
1DX15	249	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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Part 1

CERTIFICATE OF ANALYSIS

VAN09005509.1

		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
MCK 61739	Soil		0.8	10.1	4.7	40	<0.1	12.2	8.0	340	2.38	4.0	0.7	1.2	3.2	21	<0.1	0.2	0.1	64	0.26	0.052
MCK 65510	Soil		0.5	45.6	2.5	67	<0.1	7.8	11.6	402	2.51	2.5	0.2	1.5	0.8	28	<0.1	0.1	<0.1	52	0.60	0.109
MCK 65511	Soil		0.6	41.9	4.3	62	<0.1	13.8	12.7	361	3.31	5.4	0.2	3.3	1.3	17	<0.1	0.4	0.1	76	0.27	0.062
MCK 65512	Soil		0.3	52.0	3.6	62	<0.1	13.0	12.0	398	2.69	3.7	0.3	2.8	1.2	22	<0.1	0.2	<0.1	60	0.44	0.082
MCK 65513	Soil		0.3	39.2	3.4	57	<0.1	29.1	13.1	308	2.49	2.7	0.3	1.1	1.3	24	<0.1	0.2	<0.1	62	0.47	0.069
MCK 65514	Soil		0.4	37.7	4.0	59	<0.1	25.7	14.0	310	2.60	2.8	0.4	1.5	1.4	23	<0.1	0.2	<0.1	67	0.43	0.079
MCK 65516	Soil		0.5	39.3	4.9	68	0.1	24.4	13.2	326	2.66	3.1	0.7	1.4	1.9	22	<0.1	0.2	<0.1	71	0.37	0.081
MCK 65517	Soil		0.9	218.2	3.1	73	<0.1	24.1	26.4	646	4.74	3.3	0.6	2.6	0.8	34	0.1	0.2	<0.1	162	0.55	0.125
MCK 65518	Soil		0.3	116.2	2.0	43	<0.1	19.3	16.5	279	2.73	1.8	0.3	<0.5	0.4	33	<0.1	<0.1	<0.1	95	0.44	0.091
MCK 65519	Soil		0.4	107.4	2.0	41	<0.1	18.3	15.8	280	2.63	2.1	0.3	0.5	0.5	35	<0.1	0.1	<0.1	92	0.52	0.108
MCK 65520	Soil		0.6	184.6	16.7	92	<0.1	16.7	23.7	478	4.90	1.8	0.4	10.8	0.8	58	<0.1	0.2	0.1	142	0.82	0.175
MCK 65521	Soil		0.2	40.8	16.0	58	<0.1	36.5	21.0	493	3.56	1.0	1.1	0.7	5.6	38	<0.1	<0.1	<0.1	107	0.70	0.148
MCK 65522	Soil		0.3	18.7	5.6	39	<0.1	102.2	16.4	299	2.27	2.3	0.8	1.0	3.7	51	<0.1	0.1	<0.1	54	0.44	0.092
MCK 65523	Soil		0.2	23.9	6.4	32	<0.1	25.1	11.3	154	1.98	2.5	1.5	<0.5	7.3	15	<0.1	<0.1	0.1	57	0.50	0.132
MCK 65524	Soil		0.3	39.4	32.8	71	<0.1	54.3	24.8	559	4.21	1.7	1.1	<0.5	6.4	62	<0.1	0.1	0.2	107	0.68	0.150
MCK 65525	Soil		0.5	33.7	10.2	56	<0.1	29.9	13.6	372	3.12	5.1	0.7	1.7	3.7	27	<0.1	0.3	<0.1	83	0.44	0.062
MCK 65526	Soil		0.4	56.9	28.6	87	0.1	62.8	30.2	753	5.14	1.6	1.0	28.5	8.5	29	0.1	0.2	0.2	153	0.79	0.132
MCK 65527	Soil		0.5	35.5	11.6	79	<0.1	45.2	21.3	539	4.19	3.8	1.3	5.7	9.4	35	0.1	0.3	0.1	99	0.73	0.131
MCK 65528	Soil		1.1	46.8	13.1	90	0.1	63.4	21.1	617	4.60	7.3	1.2	4.3	5.8	38	0.2	0.5	0.1	103	0.76	0.102
MCK 65529	Soil		0.6	30.7	9.2	64	0.1	27.6	13.4	452	2.98	5.0	0.9	3.9	3.3	34	0.1	0.3	0.1	78	0.75	0.070
MCK 65530	Soil		0.8	28.9	10.8	62	<0.1	25.1	13.6	447	2.97	4.4	1.0	7.7	4.8	31	0.1	0.2	0.1	75	0.57	0.089
MCK 65531	Soil		0.4	24.2	7.4	67	<0.1	45.1	9.3	334	2.43	4.9	0.8	1.9	6.6	39	<0.1	0.3	<0.1	52	0.65	0.192
MCK 65532	Soil		0.5	174.3	3.3	71	<0.1	23.0	19.7	349	3.96	5.1	0.3	1.6	1.5	72	<0.1	0.7	<0.1	126	0.58	0.070
MCK 65533	Soil		0.4	152.9	2.5	47	<0.1	24.3	17.5	361	3.21	2.7	0.4	1.5	1.0	32	<0.1	0.2	<0.1	130	0.53	0.085
MCK 65534	Soil		0.7	48.9	6.8	57	0.2	32.6	14.4	370	3.09	8.7	1.8	3.2	5.1	39	0.1	0.4	0.1	74	0.93	0.094
MCK 65535	Soil		0.5	90.2	5.1	51	0.1	29.1	12.7	418	2.45	4.7	1.9	5.7	2.4	43	0.1	0.4	<0.1	66	1.02	0.071
MCK 65536	Soil		0.4	34.6	3.6	47	<0.1	9.0	7.1	143	2.09	2.6	0.4	2.2	0.8	16	<0.1	0.1	<0.1	53	0.28	0.069
MCK 65537	Soil		0.3	34.6	4.0	49	0.1	10.6	7.5	154	2.11	2.8	0.4	5.8	0.9	18	<0.1	0.1	<0.1	52	0.32	0.068
MCK 65538	Soil		0.5	42.2	4.0	52	0.1	11.0	9.7	190	2.39	3.3	0.3	2.8	1.2	19	<0.1	0.2	<0.1	69	0.37	0.075
MCK 65539	Soil		0.5	34.9	4.4	52	<0.1	12.0	8.2	162	2.25	4.1	0.4	7.9	1.1	19	<0.1	0.2	<0.1	65	0.33	0.061



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Project: MCK
Report Date: November 24, 2009

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CERTIFICATE OF ANALYSIS

VAN09005509.1

	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
MCK 61739	Soil	9	28	0.65	144	0.147	2	1.65	0.012	0.15	0.2	0.02	2.3	<0.1	0.10	7	<0.5
MCK 65510	Soil	3	11	0.70	107	0.135	<1	1.79	0.010	0.13	<0.1	<0.01	2.5	<0.1	0.07	7	<0.5
MCK 65511	Soil	4	20	0.66	118	0.150	2	1.96	0.009	0.08	0.2	0.01	2.9	<0.1	<0.05	8	<0.5
MCK 65512	Soil	5	23	0.72	149	0.119	1	1.52	0.010	0.09	0.1	0.01	2.8	<0.1	0.05	5	<0.5
MCK 65513	Soil	6	70	1.04	194	0.134	<1	1.64	0.011	0.15	0.1	0.01	2.5	<0.1	0.06	5	<0.5
MCK 65514	Soil	6	57	1.04	301	0.151	<1	1.71	0.011	0.19	<0.1	0.02	2.3	<0.1	0.07	6	<0.5
MCK 65516	Soil	7	59	1.02	380	0.155	<1	1.71	0.012	0.23	<0.1	0.02	2.5	0.1	0.07	7	<0.5
MCK 65517	Soil	3	22	1.31	318	0.194	1	2.16	0.026	0.30	<0.1	<0.01	4.0	<0.1	0.07	7	<0.5
MCK 65518	Soil	2	26	1.09	345	0.186	<1	1.65	0.022	0.50	<0.1	<0.01	2.0	0.1	<0.05	5	<0.5
MCK 65519	Soil	2	25	1.05	311	0.184	<1	1.56	0.018	0.45	<0.1	<0.01	1.9	0.1	<0.05	5	<0.5
MCK 65520	Soil	4	14	1.42	520	0.273	<1	2.11	0.028	0.60	0.1	<0.01	4.1	0.2	<0.05	8	<0.5
MCK 65521	Soil	14	89	1.92	960	0.234	<1	2.08	0.016	0.80	0.1	<0.01	3.4	0.3	<0.05	8	<0.5
MCK 65522	Soil	12	256	1.67	554	0.173	<1	1.91	0.012	0.51	0.1	<0.01	1.2	0.3	<0.05	6	<0.5
MCK 65523	Soil	18	73	1.08	611	0.138	<1	1.40	0.020	0.33	<0.1	<0.01	1.8	0.1	<0.05	5	<0.5
MCK 65524	Soil	19	149	2.33	1292	0.281	<1	2.48	0.011	0.94	0.1	<0.01	3.1	0.4	<0.05	10	<0.5
MCK 65525	Soil	13	68	1.07	494	0.159	1	1.84	0.018	0.34	0.1	<0.01	3.5	0.1	<0.05	6	<0.5
MCK 65526	Soil	23	178	2.91	1497	0.169	<1	2.70	0.010	0.50	0.1	0.03	11.0	0.2	<0.05	11	<0.5
MCK 65527	Soil	25	78	1.39	1608	0.157	3	2.04	0.020	0.56	0.1	0.04	8.7	0.2	0.05	8	<0.5
MCK 65528	Soil	17	75	0.97	1324	0.086	2	1.58	0.012	0.23	0.2	0.05	7.9	0.1	0.08	6	<0.5
MCK 65529	Soil	13	46	0.82	658	0.072	2	1.73	0.015	0.06	0.2	0.04	4.3	<0.1	0.05	6	<0.5
MCK 65530	Soil	13	50	0.85	519	0.094	<1	1.56	0.019	0.12	0.2	0.02	3.5	<0.1	0.06	6	<0.5
MCK 65531	Soil	21	61	1.00	587	0.090	<1	1.51	0.013	0.14	0.1	<0.01	4.1	0.2	<0.05	5	<0.5
MCK 65532	Soil	8	25	1.20	207	0.198	<1	2.26	0.037	0.15	0.2	<0.01	3.5	<0.1	<0.05	7	<0.5
MCK 65533	Soil	6	50	1.14	211	0.180	<1	1.70	0.025	0.19	0.1	<0.01	4.3	<0.1	<0.05	6	<0.5
MCK 65534	Soil	30	60	1.08	1017	0.139	1	1.76	0.020	0.27	0.2	0.04	4.9	0.2	0.09	6	1.0
MCK 65535	Soil	11	48	0.89	579	0.124	2	1.51	0.022	0.23	0.1	0.03	3.3	0.1	0.08	5	0.8
MCK 65536	Soil	5	21	0.56	103	0.098	1	1.27	0.015	0.07	0.1	0.03	2.2	<0.1	<0.05	5	<0.5
MCK 65537	Soil	5	21	0.56	111	0.097	<1	1.39	0.013	0.07	0.1	0.03	2.5	<0.1	0.05	5	<0.5
MCK 65538	Soil	5	23	0.70	115	0.129	1	1.58	0.013	0.09	0.1	0.02	2.7	<0.1	<0.05	6	<0.5
MCK 65539	Soil	6	26	0.64	100	0.110	<1	1.52	0.013	0.07	0.2	0.02	2.2	<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
		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
MCK 65540	Soil	0.6	61.5	4.7	70	0.2	16.4	14.1	339	3.19	4.1	0.4	4.1	1.6	20	<0.1	0.2	<0.1	87	0.37
MCK 65541	Soil	0.7	31.0	4.9	58	<0.1	16.3	12.2	355	3.06	5.2	0.3	1.3	1.6	22	0.1	0.3	<0.1	75	0.39
MCK 65922	Soil	1.8	20.0	9.4	46	<0.1	14.8	7.7	240	3.11	9.0	1.0	2.1	2.5	15	<0.1	0.4	0.3	69	0.16
MCK 65923	Soil	2.1	30.0	3.6	59	<0.1	6.3	8.3	619	3.80	4.1	1.8	1.1	8.5	20	<0.1	0.2	0.3	25	0.24
MCK 65924	Soil	1.6	23.9	6.1	54	<0.1	17.2	8.9	386	3.03	7.2	1.0	2.1	4.5	24	<0.1	0.3	0.2	63	0.28
MCK 65925	Soil	2.4	26.5	9.1	55	<0.1	13.7	10.4	688	3.35	4.9	1.7	7.0	9.4	18	<0.1	0.3	0.2	49	0.26
MCK 65926	Soil	1.8	25.9	6.4	56	<0.1	14.5	8.1	468	3.03	4.7	1.7	2.7	8.2	21	<0.1	0.3	0.2	43	0.29
MCK 65927	Soil	1.4	22.6	9.0	51	<0.1	16.1	8.1	360	2.82	6.4	1.1	2.5	6.5	19	<0.1	0.4	0.2	52	0.27
MCK 65928	Soil	1.0	22.8	6.3	59	<0.1	17.7	9.3	480	3.04	5.6	1.4	1.2	9.9	29	0.1	0.3	0.2	46	0.34
MCK 65929	Soil	1.1	25.9	8.5	55	<0.1	20.7	8.8	330	2.89	7.5	1.5	2.3	5.8	27	<0.1	0.4	0.2	60	0.29
MCK 65930	Soil	0.8	36.1	8.2	70	<0.1	28.5	12.0	381	3.08	6.7	2.0	4.0	6.4	28	<0.1	0.4	0.2	62	0.32
MCK 65931	Soil	1.0	24.1	7.7	52	<0.1	28.1	11.2	281	2.72	6.2	1.2	2.5	5.7	22	<0.1	0.3	0.2	57	0.31
MCK 65932	Soil	1.4	32.2	4.6	58	<0.1	82.2	24.6	676	3.76	1.4	0.6	<0.5	3.1	34	<0.1	<0.1	<0.1	100	1.02
MCK 65933	Soil	0.7	31.2	7.1	69	<0.1	35.9	16.0	388	3.39	4.4	0.9	0.6	8.7	18	<0.1	0.2	0.2	62	0.33
MCK 65934	Soil	0.9	28.2	7.7	65	<0.1	28.3	12.7	331	3.60	3.6	1.2	2.7	9.7	16	<0.1	0.2	0.2	65	0.30
MCK 65935	Soil	1.0	29.9	8.1	74	<0.1	34.4	14.5	347	3.71	4.1	1.3	2.1	10.1	16	<0.1	0.2	0.2	57	0.30
MCK 65936	Soil	1.5	28.0	7.5	67	<0.1	35.7	13.2	240	3.20	4.1	1.5	1.4	8.3	21	<0.1	0.2	0.2	57	0.29
MCK 65937	Soil	0.9	28.5	7.5	60	<0.1	26.5	11.2	315	2.77	5.7	1.1	1.5	5.6	27	<0.1	0.4	0.2	58	0.45
MCK 65938	Soil	0.8	36.2	7.6	84	<0.1	38.5	16.8	433	4.18	2.3	1.5	4.6	11.7	25	<0.1	0.2	0.2	75	0.48
MCK 65939	Soil	0.8	36.6	8.4	69	<0.1	45.1	16.1	388	3.51	4.0	1.4	13.1	9.2	19	<0.1	0.2	0.2	64	0.38
MCK 65940	Soil	1.3	43.6	7.7	82	<0.1	56.4	21.6	420	4.08	1.4	2.0	0.6	11.2	36	<0.1	<0.1	0.2	68	0.68
MCK 65941	Soil	1.3	63.1	18.5	99	<0.1	91.1	23.3	1316	4.77	0.9	1.9	1.2	12.9	32	0.4	0.2	0.3	93	0.82
MCK 65942	Soil	1.1	32.4	8.2	56	<0.1	24.6	10.8	443	3.22	10.3	1.6	3.4	6.7	25	<0.1	0.5	0.2	66	0.26
MCK 65943	Soil	0.4	21.4	5.6	56	<0.1	15.2	7.8	544	2.57	3.4	1.8	0.8	12.2	27	<0.1	0.2	0.2	38	0.31
MCK 65944	Soil	1.2	21.5	7.0	59	<0.1	21.3	10.9	628	3.27	5.1	1.3	1.0	10.4	21	<0.1	0.3	0.1	49	0.22
MCK 65945	Soil	1.7	25.8	6.2	60	<0.1	15.8	10.1	522	3.42	5.7	1.2	1.7	9.2	21	<0.1	0.3	0.2	45	0.20
MCK 65946	Soil	3.9	34.4	4.6	74	<0.1	10.3	8.9	619	4.30	3.2	2.5	0.8	13.4	30	<0.1	0.2	0.3	38	0.29
MCK 65947	Soil	3.6	34.6	4.4	74	<0.1	9.8	9.1	607	4.23	2.8	2.4	0.8	12.5	28	<0.1	0.2	0.3	33	0.29
MCK 67236	Soil	1.0	26.2	1.6	36	<0.1	9.8	5.1	407	2.93	1.2	2.6	1.4	9.2	19	<0.1	<0.1	0.4	39	0.29
MCK 67237	Soil	1.3	19.3	8.6	53	<0.1	21.1	9.9	464	3.16	8.7	2.1	0.9	9.2	19	0.1	0.5	0.3	55	0.22



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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
MCK 65540	Soil	6	31	0.94	132	0.151	7	2.12	0.014	0.14	0.1	0.02	3.2	0.1	<0.05	7	<0.5
MCK 65541	Soil	6	28	0.81	118	0.139	1	2.29	0.015	0.14	0.1	0.01	3.0	<0.1	<0.05	7	<0.5
MCK 65922	Soil	14	35	0.44	146	0.071	2	2.01	0.009	0.06	0.1	0.02	2.7	0.1	<0.05	7	<0.5
MCK 65923	Soil	32	9	0.58	214	0.134	<1	1.79	0.009	0.44	0.1	<0.01	1.7	0.3	<0.05	7	<0.5
MCK 65924	Soil	16	30	0.64	200	0.118	2	1.95	0.014	0.12	0.2	0.02	3.4	0.1	<0.05	6	<0.5
MCK 65925	Soil	27	25	0.62	157	0.111	1	1.86	0.007	0.25	0.1	0.01	2.4	0.4	<0.05	6	<0.5
MCK 65926	Soil	28	24	0.60	188	0.122	<1	1.82	0.010	0.18	0.2	<0.01	2.3	0.2	<0.05	6	<0.5
MCK 65927	Soil	18	28	0.55	164	0.101	<1	1.83	0.009	0.12	0.1	0.01	2.4	0.2	<0.05	6	<0.5
MCK 65928	Soil	28	31	0.69	272	0.134	<1	1.77	0.014	0.22	0.2	0.02	3.8	0.2	<0.05	6	<0.5
MCK 65929	Soil	22	35	0.60	268	0.096	<1	2.04	0.013	0.08	0.2	0.02	4.3	0.2	<0.05	7	<0.5
MCK 65930	Soil	24	45	0.85	314	0.119	<1	2.10	0.015	0.15	0.1	0.03	5.0	0.2	<0.05	6	<0.5
MCK 65931	Soil	19	44	0.75	209	0.099	<1	1.85	0.011	0.13	0.1	0.02	3.2	0.2	<0.05	6	<0.5
MCK 65932	Soil	27	111	2.12	231	0.233	<1	2.70	0.011	1.01	<0.1	<0.01	3.9	0.4	<0.05	9	<0.5
MCK 65933	Soil	21	44	1.13	193	0.158	<1	2.50	0.012	0.43	0.1	<0.01	3.7	0.3	<0.05	7	<0.5
MCK 65934	Soil	22	44	1.03	190	0.169	<1	2.25	0.010	0.62	0.1	<0.01	4.6	0.4	<0.05	7	<0.5
MCK 65935	Soil	26	40	1.06	185	0.151	<1	2.28	0.012	0.49	0.1	<0.01	3.5	0.4	<0.05	7	<0.5
MCK 65936	Soil	27	40	1.01	172	0.141	<1	2.19	0.014	0.41	<0.1	<0.01	3.3	0.3	<0.05	7	<0.5
MCK 65937	Soil	19	38	0.82	215	0.109	<1	1.73	0.018	0.10	0.1	0.01	3.7	0.1	<0.05	5	<0.5
MCK 65938	Soil	37	47	1.46	253	0.208	<1	2.88	0.016	0.81	<0.1	<0.01	5.4	0.4	<0.05	10	<0.5
MCK 65939	Soil	31	61	1.13	254	0.141	<1	2.52	0.011	0.38	<0.1	<0.01	4.3	0.3	<0.05	7	<0.5
MCK 65940	Soil	49	66	1.55	337	0.182	<1	2.70	0.023	0.78	<0.1	<0.01	4.7	0.5	0.08	8	<0.5
MCK 65941	Soil	72	97	2.40	644	0.197	<1	3.27	0.015	0.65	<0.1	<0.01	10.1	0.4	<0.05	13	<0.5
MCK 65942	Soil	25	36	0.61	287	0.095	<1	2.30	0.013	0.07	0.2	0.03	5.5	0.1	<0.05	6	<0.5
MCK 65943	Soil	39	24	0.66	160	0.150	<1	1.62	0.009	0.34	0.2	<0.01	2.9	0.4	<0.05	6	<0.5
MCK 65944	Soil	37	40	0.82	186	0.166	2	2.39	0.010	0.28	0.2	<0.01	2.9	0.4	<0.05	8	<0.5
MCK 65945	Soil	25	23	0.72	213	0.151	<1	2.15	0.013	0.36	<0.1	<0.01	2.5	0.3	<0.05	7	<0.5
MCK 65946	Soil	49	17	0.83	324	0.209	<1	2.26	0.012	0.61	0.1	<0.01	3.3	0.4	<0.05	8	0.6
MCK 65947	Soil	48	15	0.75	310	0.201	<1	2.09	0.012	0.63	0.1	<0.01	2.8	0.4	<0.05	8	0.5
MCK 67236	Soil	29	34	0.80	503	0.170	<1	1.72	0.010	0.70	0.2	<0.01	5.1	0.2	<0.05	8	<0.5
MCK 67237	Soil	37	33	0.53	190	0.085	<1	2.28	0.014	0.09	0.2	0.02	3.9	0.1	<0.05	6	0.6



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			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
MCK 67238	Soil	1.1	16.0	6.7	51	<0.1	19.7	9.9	342	2.94	7.5	1.3	0.9	6.6	17	0.1	0.4	0.2	51	0.18	0.050	
MCK 67239	Soil	2.1	18.2	7.1	42	<0.1	18.4	8.5	239	2.94	6.7	1.2	2.5	4.6	25	<0.1	0.4	0.2	58	0.25	0.043	
MCK 67240	Soil	1.2	31.1	6.1	54	<0.1	18.6	10.8	478	3.21	6.9	1.2	28.0	8.5	32	0.1	0.4	0.2	56	0.37	0.074	
MCK 67241	Soil	13.4	103.7	7.1	63	<0.1	6.1	7.6	627	4.37	4.1	3.5	0.9	22.7	22	0.2	0.2	0.8	28	0.31	0.115	
MCK 67242	Soil	13.2	101.3	7.0	64	<0.1	5.6	7.4	589	4.14	4.1	3.4	0.7	23.3	21	0.2	0.2	0.7	27	0.33	0.116	
MCK 68124	Soil	0.5	9.9	7.7	51	<0.1	12.5	7.9	433	3.19	3.3	1.8	<0.5	8.8	26	<0.1	0.3	0.2	41	0.35	0.060	
MCK 68125	Soil	0.4	10.8	5.3	54	<0.1	8.4	6.4	525	2.48	2.3	3.0	1.1	19.8	36	<0.1	0.2	0.3	22	0.45	0.084	
MCK 68126	Soil	2.3	22.3	6.5	43	<0.1	13.7	7.6	250	3.14	7.0	2.5	4.3	8.2	21	<0.1	0.3	0.2	50	0.21	0.063	
MCK 68127	Soil	3.0	60.2	6.7	48	<0.1	6.0	11.9	831	3.68	3.1	3.3	2.7	19.0	14	<0.1	0.2	0.7	24	0.23	0.109	
MCK 68128	Soil	6.7	57.7	7.6	36	<0.1	8.7	5.0	232	3.30	6.1	1.9	<0.5	12.0	12	<0.1	0.3	0.4	36	0.13	0.047	
MCK 79012	Soil	0.9	23.2	7.4	66	<0.1	23.2	9.4	320	2.87	5.7	1.6	2.7	6.7	29	0.1	0.3	0.2	53	0.38	0.072	
MCK 79013	Soil	0.9	19.1	7.6	61	0.1	20.1	9.7	353	2.69	4.9	1.6	3.0	5.9	26	0.2	0.3	0.2	51	0.34	0.074	
MCK 79014	Soil	1.1	20.0	9.3	67	0.1	18.7	8.7	336	2.65	5.0	1.7	3.7	5.7	24	0.2	0.2	0.2	55	0.28	0.066	
MCK 79015	Soil	1.4	5.9	4.1	39	<0.1	13.6	11.1	471	3.24	1.7	2.3	<0.5	9.4	47	<0.1	0.2	<0.1	65	0.54	0.121	
MCK 79016	Soil	0.7	4.5	2.5	39	<0.1	12.7	9.1	643	3.16	1.1	2.2	7.0	12.0	25	<0.1	0.1	<0.1	45	0.42	0.133	
MCK 79017	Soil	0.4	33.2	3.7	50	<0.1	16.1	10.0	418	2.21	2.7	9.8	3.5	1.6	34	0.1	0.3	<0.1	50	1.23	0.063	
MCK 79018	Soil	0.5	47.6	5.8	47	0.1	17.9	10.0	422	2.50	5.7	3.7	2.1	2.0	33	<0.1	0.4	0.1	61	0.67	0.052	
MCK 79019	Soil	0.5	33.5	2.8	54	<0.1	15.7	11.7	392	3.23	2.4	0.6	2.7	1.4	24	<0.1	0.3	<0.1	70	0.45	0.032	
MCK 79020	Soil	0.5	81.8	3.8	50	<0.1	27.7	14.4	447	3.21	5.1	0.4	1.5	2.2	12	<0.1	0.4	<0.1	93	0.17	0.022	
MCK 79021	Soil	0.7	21.9	6.6	44	0.1	19.0	8.0	265	2.40	6.3	0.5	2.9	2.8	22	<0.1	0.4	0.1	59	0.26	0.018	
MCK 79022	Soil	0.6	28.6	13.2	83	<0.1	68.0	19.4	749	4.17	3.0	1.1	<0.5	7.2	34	<0.1	0.1	0.2	102	0.41	0.108	
MCK 79023	Soil	0.2	119.5	1.3	43	<0.1	33.8	15.3	336	2.36	0.9	0.1	<0.5	0.3	23	<0.1	<0.1	<0.1	91	0.34	0.094	
MCK 79024	Soil	0.5	97.9	4.9	46	0.2	23.4	13.6	418	2.61	3.8	0.7	2.4	1.8	24	<0.1	0.2	<0.1	89	0.32	0.058	
MCK 79025	Soil	0.4	65.2	4.0	50	<0.1	24.6	12.2	267	2.71	3.2	0.4	1.5	1.9	21	<0.1	0.1	<0.1	97	0.32	0.081	
MCK 79026	Soil	0.5	62.6	5.6	45	0.3	20.4	10.2	258	2.28	2.4	1.2	1.9	2.5	26	0.1	0.1	<0.1	74	0.37	0.067	
MCK 79027	Soil	0.4	87.2	7.7	57	<0.1	18.0	12.1	251	3.00	4.8	0.4	3.7	1.6	22	<0.1	0.2	0.1	94	0.30	0.071	
MCK 79028	Soil	0.5	90.9	7.6	58	<0.1	19.5	12.5	260	3.02	4.5	0.4	14.0	1.8	22	<0.1	0.2	0.1	100	0.32	0.071	
MCK 79029	Soil	0.2	41.4	24.5	49	<0.1	112.9	16.5	353	2.54	2.1	1.4	<0.5	7.1	49	<0.1	<0.1	0.2	70	0.41	0.117	
MCK 79030	Soil	0.5	54.2	9.3	54	<0.1	38.3	11.1	277	2.78	4.4	0.9	1.6	3.9	28	<0.1	0.2	0.1	83	0.30	0.065	
MCK 79031	Soil	0.3	41.9	8.0	47	<0.1	63.4	13.6	268	2.53	3.2	1.2	2.3	6.0	43	<0.1	0.1	0.1	71	0.41	0.108	



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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
MCK 67238	Soil	26	29	0.58	127	0.101	2	2.16	0.014	0.16	0.1	0.02	2.8	0.1	<0.05	6	<0.5
MCK 67239	Soil	17	28	0.53	195	0.089	2	1.99	0.012	0.07	<0.1	0.02	3.5	<0.1	<0.05	6	0.5
MCK 67240	Soil	30	28	0.75	330	0.117	<1	2.19	0.013	0.23	0.1	0.01	4.1	0.2	<0.05	6	<0.5
MCK 67241	Soil	90	10	0.70	305	0.173	<1	1.78	0.008	0.69	0.2	<0.01	4.7	0.5	<0.05	9	0.5
MCK 67242	Soil	91	9	0.71	312	0.178	<1	1.87	0.008	0.75	0.1	<0.01	5.0	0.5	<0.05	9	0.9
MCK 68124	Soil	28	28	0.66	174	0.090	<1	2.06	0.012	0.17	0.1	<0.01	3.1	0.1	<0.05	8	<0.5
MCK 68125	Soil	46	11	0.46	237	0.058	3	1.36	0.010	0.25	<0.1	<0.01	2.3	0.1	<0.05	5	<0.5
MCK 68126	Soil	38	23	0.55	138	0.081	<1	1.93	0.011	0.13	0.1	0.02	3.0	0.1	<0.05	7	<0.5
MCK 68127	Soil	68	10	0.67	338	0.057	<1	1.71	0.007	0.23	0.1	<0.01	3.0	0.2	<0.05	8	0.8
MCK 68128	Soil	12	16	0.44	100	0.093	1	1.59	0.008	0.18	<0.1	0.01	2.1	0.2	<0.05	6	0.6
MCK 79012	Soil	27	33	0.67	222	0.116	<1	1.87	0.015	0.11	0.1	0.02	3.3	0.1	<0.05	7	<0.5
MCK 79013	Soil	25	33	0.65	222	0.107	<1	1.87	0.015	0.08	0.2	0.03	3.2	0.1	<0.05	6	<0.5
MCK 79014	Soil	24	33	0.62	206	0.108	3	1.64	0.011	0.07	0.2	0.03	2.8	0.1	0.14	7	<0.5
MCK 79015	Soil	38	35	1.02	360	0.199	2	1.74	0.010	0.37	0.2	0.01	4.0	0.2	0.11	10	<0.5
MCK 79016	Soil	21	24	0.92	365	0.257	1	1.62	0.008	0.62	0.1	<0.01	3.3	0.3	0.09	7	<0.5
MCK 79017	Soil	6	28	0.67	177	0.059	3	1.18	0.013	0.06	<0.1	0.03	4.2	<0.1	0.16	4	0.6
MCK 79018	Soil	10	26	0.54	267	0.067	2	1.41	0.022	0.04	0.1	0.04	5.0	<0.1	0.09	4	<0.5
MCK 79019	Soil	4	35	0.54	185	0.049	2	1.10	0.013	0.09	0.1	0.01	7.0	<0.1	0.07	4	<0.5
MCK 79020	Soil	4	67	1.23	116	0.120	2	1.92	0.015	0.06	0.1	0.01	3.4	<0.1	0.07	7	<0.5
MCK 79021	Soil	8	34	0.55	273	0.084	<1	1.33	0.015	0.05	0.1	0.01	3.2	<0.1	<0.05	4	<0.5
MCK 79022	Soil	13	147	2.29	687	0.300	<1	2.79	0.013	0.88	0.1	0.01	4.2	0.5	0.07	12	<0.5
MCK 79023	Soil	1	87	1.31	232	0.198	<1	1.60	0.016	0.34	<0.1	<0.01	1.5	<0.1	0.07	6	<0.5
MCK 79024	Soil	8	49	0.93	422	0.176	<1	1.61	0.015	0.23	<0.1	0.02	3.0	<0.1	0.05	7	<0.5
MCK 79025	Soil	6	54	1.11	354	0.199	<1	1.68	0.013	0.32	<0.1	<0.01	2.4	<0.1	0.06	6	<0.5
MCK 79026	Soil	10	45	0.87	490	0.157	1	1.37	0.016	0.12	<0.1	0.02	2.7	0.1	0.07	5	<0.5
MCK 79027	Soil	5	32	0.89	251	0.167	1	1.63	0.018	0.22	0.1	0.03	2.6	<0.1	<0.05	6	<0.5
MCK 79028	Soil	5	33	0.89	243	0.173	1	1.67	0.017	0.23	0.1	0.02	2.6	<0.1	<0.05	6	<0.5
MCK 79029	Soil	18	271	1.62	623	0.205	<1	1.97	0.012	0.58	<0.1	<0.01	2.2	0.3	<0.05	7	<0.5
MCK 79030	Soil	9	86	1.03	320	0.180	1	1.75	0.012	0.22	0.1	0.02	2.9	0.1	0.05	7	<0.5
MCK 79031	Soil	14	159	1.38	401	0.179	<1	1.93	0.010	0.38	0.2	0.01	2.0	0.2	<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
		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
MCK 79032	Soil	0.8	41.4	8.9	78	<0.1	61.6	17.3	481	4.25	6.6	1.0	7.6	6.8	27	<0.1	0.4	0.2	114	0.39
MCK 79033	Soil	0.7	40.1	7.5	56	0.1	35.3	13.4	473	3.14	6.1	1.0	4.3	5.6	34	0.1	0.4	0.1	80	0.63
MCK 79034	Soil	0.5	31.5	6.0	44	<0.1	23.1	10.3	248	2.59	6.8	0.4	<0.5	2.5	23	<0.1	0.4	0.1	68	0.30
MCK 79035	Soil	0.4	71.8	3.9	63	<0.1	19.6	12.4	456	3.09	3.8	1.4	3.6	2.3	27	<0.1	0.3	<0.1	75	0.59
MCK 79036	Soil	0.6	30.1	6.8	56	<0.1	21.4	10.6	370	2.93	6.6	0.7	1.0	2.1	25	<0.1	0.4	<0.1	68	0.35
MCK 79037	Soil	0.4	41.5	3.9	65	<0.1	17.2	10.7	380	3.23	2.8	4.7	1.1	2.0	34	<0.1	0.2	<0.1	86	0.79
MCK 79038	Soil	1.2	15.1	5.7	48	<0.1	14.4	14.2	834	2.62	4.1	2.7	5.3	4.5	25	<0.1	0.2	0.1	60	0.25
MCK 79039	Soil	1.5	9.1	4.9	62	<0.1	17.8	12.1	627	3.63	3.5	1.9	6.8	6.0	42	<0.1	0.2	0.1	63	0.41
MCK 79040	Soil	0.7	14.1	6.7	42	<0.1	11.9	4.6	126	1.70	3.6	1.0	2.2	2.2	22	0.1	0.2	0.2	35	0.22
MCK 79041	Soil	1.1	26.0	8.5	60	<0.1	17.2	8.7	234	2.93	6.2	1.5	2.9	6.0	24	0.1	0.3	0.2	57	0.27
MCK 79042	Soil	1.3	24.2	7.3	52	<0.1	16.4	7.4	193	2.59	5.5	1.5	27.4	5.4	28	0.1	0.2	0.2	53	0.29
MCK 79044	Soil	1.2	47.2	14.2	90	<0.1	61.4	24.2	1401	5.71	0.7	2.1	1.5	24.3	26	<0.1	0.1	0.4	62	0.60
MCK 79045	Soil	1.1	48.6	14.5	98	<0.1	61.8	23.4	1626	5.79	<0.5	2.0	<0.5	24.9	24	<0.1	<0.1	0.4	62	0.61
MCK 79046	Soil	1.0	60.3	14.6	103	<0.1	114.1	36.5	1298	5.98	1.1	1.1	1.0	8.0	41	0.2	<0.1	0.1	121	1.15
MCK 79047	Soil	1.7	66.8	16.7	107	<0.1	55.9	21.5	762	4.66	14.0	1.8	0.8	9.2	18	0.1	0.2	0.4	102	0.37
MCK 79048	Soil	0.6	27.9	6.2	59	<0.1	38.4	12.2	426	3.23	5.3	1.5	<0.5	11.0	28	<0.1	0.3	0.2	102	0.38
MCK 79049	Soil	0.9	15.5	10.1	47	<0.1	16.2	7.4	346	3.13	7.1	1.2	0.9	7.9	17	<0.1	0.4	0.3	63	0.18
MCK 79050	Soil	0.7	17.0	8.4	51	<0.1	20.4	9.0	482	2.70	5.4	1.9	1.6	15.2	18	<0.1	0.3	0.1	47	0.22
MCK 79051	Soil	1.0	15.8	14.9	52	<0.1	13.5	7.2	363	2.87	6.7	0.9	1.0	8.0	14	0.1	0.3	0.3	48	0.15
MCK 79052	Soil	2.5	18.6	8.1	47	<0.1	15.8	8.8	399	3.54	8.1	1.0	1.6	5.0	27	<0.1	0.3	0.4	56	0.17
MCK 79053	Soil	1.7	20.8	5.9	88	<0.1	19.7	14.4	909	3.93	5.7	1.5	0.7	9.8	26	0.2	0.3	0.2	66	0.25
MCK 79054	Soil	16.2	15.5	7.2	27	<0.1	8.6	4.9	203	2.61	4.1	2.0	<0.5	20.5	15	<0.1	0.2	0.3	30	0.09
MCK 79055	Soil	1.0	22.4	8.9	61	<0.1	22.8	10.4	425	3.18	9.5	1.0	2.7	4.9	22	<0.1	0.5	0.2	60	0.20
MCK 79056	Soil	1.0	18.2	8.7	46	<0.1	21.6	9.5	338	2.75	9.0	1.0	3.4	4.6	19	<0.1	0.6	0.2	59	0.21
MCK 79057	Soil	1.0	15.8	6.3	49	<0.1	18.7	8.7	399	2.92	7.0	0.8	2.2	4.3	24	<0.1	0.4	0.1	54	0.29
MCK 79058	Soil	1.1	21.8	6.9	54	<0.1	19.9	9.4	377	2.86	6.2	1.1	1.7	5.4	23	0.1	0.3	0.2	55	0.28
MCK 79059	Soil	0.7	17.7	5.7	51	<0.1	21.5	9.8	423	2.92	6.1	1.0	4.0	5.1	23	<0.1	0.3	0.1	56	0.30
MCK 79060	Soil	0.6	14.9	5.0	45	<0.1	15.2	7.8	356	2.54	4.1	1.3	2.6	6.2	31	<0.1	0.3	0.1	48	0.33
MCK 79061	Soil	0.8	17.2	5.8	50	<0.1	18.8	8.0	371	2.73	5.6	1.2	<0.5	6.4	25	0.1	0.4	0.2	54	0.30
MCK 79062	Soil	0.4	8.5	2.6	45	<0.1	15.4	10.6	438	3.02	2.4	0.8	1.2	5.7	19	0.1	0.2	0.3	62	0.31



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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
MCK 79032	Soil	13	106	1.90	417	0.104	2	2.59	0.013	0.05	0.1	0.02	7.1	<0.1	0.07	9	0.5
MCK 79033	Soil	19	61	1.01	722	0.127	1	1.71	0.026	0.11	0.2	0.03	5.9	<0.1	0.08	6	<0.5
MCK 79034	Soil	8	38	0.64	256	0.111	1	1.50	0.016	0.07	0.1	0.02	3.3	<0.1	0.05	5	<0.5
MCK 79035	Soil	10	30	0.94	248	0.118	1	1.65	0.020	0.13	0.1	0.02	5.8	<0.1	0.06	6	<0.5
MCK 79036	Soil	7	30	0.74	163	0.124	1	1.75	0.019	0.12	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5
MCK 79037	Soil	7	28	1.10	314	0.197	<1	2.10	0.013	0.35	0.1	0.02	5.3	0.1	0.08	7	<0.5
MCK 79038	Soil	20	28	0.58	182	0.150	1	1.40	0.012	0.16	0.2	0.03	2.6	0.1	0.05	7	<0.5
MCK 79039	Soil	15	33	0.98	198	0.255	<1	1.88	0.012	0.47	0.2	0.02	2.5	0.2	0.05	9	<0.5
MCK 79040	Soil	14	23	0.41	123	0.080	2	1.26	0.014	0.04	0.2	0.03	2.2	<0.1	0.07	5	<0.5
MCK 79041	Soil	21	29	0.57	179	0.120	1	1.74	0.013	0.09	0.2	0.03	3.0	0.1	<0.05	6	<0.5
MCK 79042	Soil	21	27	0.53	169	0.115	<1	1.63	0.014	0.09	0.1	0.03	3.0	0.1	<0.05	6	<0.5
MCK 79044	Soil	91	60	2.34	367	0.231	4	3.10	0.019	0.91	<0.1	0.02	9.1	0.8	<0.05	11	1.1
MCK 79045	Soil	90	60	2.52	403	0.233	2	3.17	0.018	1.03	<0.1	0.02	9.5	0.8	0.06	12	<0.5
MCK 79046	Soil	43	195	3.42	531	0.287	1	3.81	0.015	1.13	0.1	0.01	7.1	0.6	0.05	14	<0.5
MCK 79047	Soil	14	82	1.85	265	0.137	1	3.03	0.008	0.32	<0.1	<0.01	4.5	0.2	0.05	11	0.6
MCK 79048	Soil	31	74	1.17	364	0.191	<1	2.41	0.015	0.34	0.1	0.01	6.8	0.4	<0.05	9	0.5
MCK 79049	Soil	11	31	0.54	150	0.118	1	1.91	0.014	0.10	0.1	0.02	2.4	0.2	<0.05	7	<0.5
MCK 79050	Soil	28	35	0.70	216	0.126	<1	1.86	0.012	0.24	0.2	0.02	3.3	0.3	<0.05	6	<0.5
MCK 79051	Soil	13	23	0.50	209	0.084	<1	1.86	0.009	0.14	0.1	0.02	2.8	0.3	<0.05	6	<0.5
MCK 79052	Soil	18	26	0.58	206	0.103	1	1.86	0.017	0.16	<0.1	0.02	2.7	0.2	0.11	7	0.7
MCK 79053	Soil	12	21	1.23	250	0.234	1	2.76	0.009	0.97	0.2	<0.01	2.4	0.7	<0.05	10	<0.5
MCK 79054	Soil	25	14	0.38	137	0.066	<1	1.54	0.012	0.15	0.1	<0.01	2.5	0.1	0.07	6	<0.5
MCK 79055	Soil	15	34	0.62	228	0.093	2	2.19	0.012	0.08	0.1	0.03	4.2	0.1	<0.05	7	0.8
MCK 79056	Soil	11	34	0.53	206	0.075	2	2.27	0.011	0.07	0.1	0.03	3.5	<0.1	<0.05	6	<0.5
MCK 79057	Soil	18	30	0.66	225	0.114	1	1.99	0.017	0.13	0.2	0.02	3.3	0.1	<0.05	6	<0.5
MCK 79058	Soil	28	29	0.58	196	0.111	2	2.01	0.013	0.08	0.2	0.02	4.1	0.1	<0.05	6	<0.5
MCK 79059	Soil	15	29	0.68	244	0.120	1	2.00	0.010	0.20	0.1	0.02	3.4	0.1	<0.05	6	0.6
MCK 79060	Soil	23	25	0.64	282	0.134	1	1.64	0.017	0.16	0.1	0.01	3.6	0.1	<0.05	5	0.5
MCK 79061	Soil	20	30	0.65	262	0.133	2	1.75	0.014	0.13	0.2	0.02	4.0	0.1	<0.05	6	<0.5
MCK 79062	Soil	11	33	0.98	450	0.229	<1	2.16	0.013	0.62	0.1	0.01	4.0	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 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
MCK 79063	Soil	0.5	16.8	4.8	48	<0.1	15.8	8.9	265	2.71	3.2	1.6	7.6	4.6	30	<0.1	0.2	0.1	51	0.45	0.081
MCK 79064	Soil	0.4	33.3	2.8	67	<0.1	22.9	12.3	331	2.90	1.3	1.4	1.0	3.0	34	<0.1	<0.1	<0.1	61	0.58	0.074
MCK 79065	Soil	0.7	9.4	3.8	43	<0.1	16.6	9.1	447	2.72	2.1	2.9	0.8	7.0	33	<0.1	0.1	<0.1	45	0.52	0.075
MCK 79066	Soil	0.8	9.2	3.8	47	<0.1	13.6	8.7	554	3.17	2.5	1.7	<0.5	4.8	28	<0.1	0.2	0.1	48	0.44	0.082
MCK 79067	Soil	1.6	17.1	5.9	55	<0.1	14.8	8.2	424	3.12	5.5	1.7	1.3	6.9	20	<0.1	0.3	0.2	60	0.25	0.063
MCK 79068	Soil	0.7	8.9	3.0	51	<0.1	11.7	7.2	408	3.02	2.5	1.4	<0.5	6.1	24	<0.1	0.1	0.1	43	0.24	0.063
MCK 79081	Soil	0.9	8.6	3.1	21	<0.1	20.9	7.1	235	2.62	1.5	1.1	0.6	8.6	18	<0.1	<0.1	<0.1	54	0.36	0.082
MCK 79082	Soil	1.0	8.2	3.2	19	<0.1	20.0	6.5	236	2.58	1.4	1.0	1.0	8.0	17	<0.1	<0.1	<0.1	53	0.37	0.079
MCK 79083	Soil	3.7	89.5	11.7	120	<0.1	94.4	24.9	911	5.28	2.7	1.8	<0.5	5.0	36	0.2	0.1	0.2	180	0.50	0.086
MCK 79084	Soil	1.0	26.4	7.8	80	<0.1	31.5	14.0	541	4.22	6.0	1.2	0.7	6.6	26	0.1	0.3	0.2	86	0.31	0.042
MCK 79085	Soil	0.9	17.1	8.5	64	<0.1	19.1	10.2	534	3.11	5.3	1.3	<0.5	8.6	20	0.1	0.3	0.2	47	0.24	0.055
MCK 79086	Soil	1.4	15.0	11.0	55	0.1	12.2	7.4	666	3.18	6.6	1.3	0.6	8.0	21	<0.1	0.3	0.2	57	0.25	0.058
MCK 79087	Soil	1.4	17.9	6.3	59	<0.1	17.2	9.3	421	3.32	6.6	1.4	0.9	7.5	17	<0.1	0.3	0.1	51	0.20	0.055
MCK 79088	Soil	2.6	47.8	8.3	63	0.1	18.9	9.0	397	3.45	9.5	2.2	1.9	9.2	22	<0.1	0.4	0.3	65	0.21	0.035
MCK 79089	Soil	3.6	15.3	7.2	49	<0.1	13.9	7.5	347	3.16	6.4	3.2	1.3	12.5	18	<0.1	0.3	0.3	52	0.20	0.043
MCK 79090	Soil	2.3	31.8	11.1	57	0.1	19.8	9.1	448	3.24	9.0	2.7	4.6	9.5	23	0.1	0.5	1.5	66	0.23	0.029
MCK 79091	Soil	0.7	16.4	6.1	43	<0.1	18.0	9.3	588	2.73	5.4	1.5	1.5	14.6	24	<0.1	0.3	0.3	39	0.34	0.047
MCK 79092	Soil	0.7	16.6	5.1	52	<0.1	22.3	12.0	607	3.57	4.7	1.2	0.9	6.5	33	<0.1	0.4	<0.1	61	0.39	0.052
MCK 79093	Soil	0.8	27.7	8.2	55	<0.1	26.1	10.2	434	3.10	9.9	1.0	5.2	3.7	26	<0.1	0.5	0.2	62	0.30	0.058
MCK 79094	Soil	0.7	16.4	7.8	55	<0.1	22.5	11.3	399	3.31	7.7	0.9	1.9	4.0	26	0.1	0.4	0.2	68	0.27	0.044
MCK 79095	Soil	0.7	17.5	6.7	56	<0.1	23.4	11.2	455	3.32	6.7	1.3	1.9	5.5	25	0.1	0.4	0.1	68	0.33	0.058
MCK 79096	Soil	0.8	17.5	5.7	50	<0.1	21.1	9.6	396	2.97	5.3	1.2	0.6	5.2	28	<0.1	0.3	0.1	65	0.34	0.063
MCK 79097	Soil	0.6	23.4	5.1	53	<0.1	20.3	10.1	382	2.90	5.3	1.0	2.1	4.9	27	<0.1	0.3	0.1	55	0.37	0.060
MCK 79098	Soil	0.7	21.2	7.0	58	<0.1	18.9	9.0	313	2.96	6.2	1.0	1.5	4.6	21	<0.1	0.3	0.2	63	0.28	0.043
MCK 79099	Soil	<0.1	54.9	1.5	69	<0.1	9.9	12.2	260	2.71	<0.5	0.6	1.3	1.1	12	<0.1	<0.1	<0.1	66	0.38	0.080
MCK 79100	Soil	0.7	21.2	6.0	51	<0.1	17.5	8.4	228	2.45	4.6	1.0	2.3	3.8	19	0.1	0.3	0.2	49	0.31	0.061
MCK 79101	Soil	0.5	27.7	4.6	46	<0.1	11.3	6.4	136	1.96	2.9	0.8	<0.5	1.5	17	<0.1	0.2	0.1	44	0.22	0.046
MCK 79102	Soil	0.4	47.9	4.8	55	0.1	15.8	10.1	279	2.41	3.2	1.0	2.4	2.4	21	<0.1	0.2	0.1	53	0.34	0.058
MCK 79103	Soil	0.3	55.2	2.7	56	<0.1	14.6	12.9	290	2.58	2.2	0.4	1.2	1.8	15	<0.1	0.1	<0.1	58	0.30	0.066
MCK 79104	Soil	0.3	35.9	3.7	57	<0.1	13.9	9.9	298	2.65	3.1	0.6	1.0	2.5	19	<0.1	0.2	<0.1	55	0.30	0.060



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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
MCK 79063	Soil	20	27	0.74	319	0.138	<1	1.69	0.012	0.21	0.1	0.01	3.2	0.1	<0.05	6	<0.5
MCK 79064	Soil	16	54	1.35	308	0.192	<1	2.22	0.017	0.43	<0.1	0.02	3.4	0.1	<0.05	7	<0.5
MCK 79065	Soil	27	26	0.88	342	0.188	<1	1.85	0.009	0.32	0.1	0.01	3.2	0.2	<0.05	7	0.6
MCK 79066	Soil	15	24	0.83	279	0.153	<1	1.79	0.009	0.29	<0.1	0.01	2.5	0.1	<0.05	8	<0.5
MCK 79067	Soil	23	29	0.74	175	0.133	1	2.00	0.011	0.22	0.2	0.01	3.5	0.2	<0.05	8	<0.5
MCK 79068	Soil	19	26	0.80	254	0.204	1	2.03	0.009	0.63	0.2	<0.01	3.0	0.3	<0.05	8	<0.5
MCK 79081	Soil	60	24	0.92	536	0.098	2	1.81	0.008	0.35	0.1	0.04	6.9	0.5	<0.05	9	<0.5
MCK 79082	Soil	58	24	0.89	533	0.096	1	1.76	0.008	0.37	<0.1	0.04	7.1	0.5	<0.05	8	<0.5
MCK 79083	Soil	21	155	2.39	820	0.239	<1	3.93	0.016	0.47	0.1	<0.01	10.2	0.4	<0.05	14	1.0
MCK 79084	Soil	21	49	1.15	390	0.207	1	2.74	0.013	0.27	0.2	0.02	4.7	0.3	<0.05	8	0.5
MCK 79085	Soil	18	28	0.69	154	0.123	<1	2.21	0.009	0.27	0.2	<0.01	2.2	0.3	<0.05	7	<0.5
MCK 79086	Soil	20	23	0.42	176	0.098	<1	1.88	0.010	0.20	0.2	0.02	2.1	0.2	<0.05	8	<0.5
MCK 79087	Soil	33	24	0.60	179	0.119	2	2.03	0.010	0.21	0.1	0.01	2.5	0.2	<0.05	8	<0.5
MCK 79088	Soil	31	32	0.61	289	0.112	1	2.16	0.014	0.14	0.1	0.02	4.2	0.1	<0.05	7	<0.5
MCK 79089	Soil	39	20	0.64	222	0.100	1	2.14	0.010	0.17	0.1	0.01	3.4	0.2	<0.05	8	0.5
MCK 79090	Soil	41	37	0.51	273	0.092	1	2.29	0.012	0.08	0.1	0.03	5.1	0.1	<0.05	7	0.7
MCK 79091	Soil	20	31	0.57	245	0.094	<1	1.90	0.013	0.15	<0.1	0.01	3.8	0.2	<0.05	5	<0.5
MCK 79092	Soil	17	35	1.04	338	0.219	<1	2.47	0.015	0.37	0.2	0.01	4.1	0.3	<0.05	7	<0.5
MCK 79093	Soil	16	35	0.64	269	0.098	1	2.23	0.014	0.06	0.1	0.03	4.9	0.1	<0.05	6	<0.5
MCK 79094	Soil	13	36	0.73	262	0.132	1	2.36	0.012	0.12	0.1	0.02	3.8	0.1	<0.05	7	<0.5
MCK 79095	Soil	15	37	0.83	289	0.174	2	2.42	0.016	0.16	0.2	0.02	3.7	0.2	<0.05	7	<0.5
MCK 79096	Soil	16	34	0.77	244	0.166	<1	2.19	0.013	0.14	0.2	0.02	3.6	0.1	<0.05	7	<0.5
MCK 79097	Soil	19	33	0.68	259	0.134	1	1.70	0.015	0.11	0.1	0.01	3.7	0.1	<0.05	6	<0.5
MCK 79098	Soil	14	32	0.66	224	0.131	1	2.10	0.011	0.07	0.1	0.02	3.5	<0.1	<0.05	7	<0.5
MCK 79099	Soil	3	13	1.09	268	0.133	<1	1.83	0.013	0.66	<0.1	<0.01	5.5	0.2	<0.05	7	<0.5
MCK 79100	Soil	13	29	0.69	207	0.096	<1	1.86	0.014	0.10	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
MCK 79101	Soil	8	23	0.58	142	0.085	1	1.41	0.012	0.08	0.1	0.02	2.2	<0.1	0.05	6	<0.5
MCK 79102	Soil	10	33	0.72	214	0.094	<1	1.69	0.015	0.08	0.1	0.03	3.8	<0.1	<0.05	6	<0.5
MCK 79103	Soil	5	32	0.93	190	0.121	<1	1.66	0.014	0.28	<0.1	<0.01	2.7	0.1	<0.05	6	<0.5
MCK 79104	Soil	8	26	0.91	201	0.131	<1	1.87	0.012	0.26	0.1	<0.01	3.2	0.1	<0.05	6	<0.5



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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
MCK 79105	Soil	0.4	38.1	4.2	57	<0.1	15.0	9.4	256	2.69	3.2	0.7	<0.5	1.8	16	<0.1	0.2	<0.1	62	0.23	0.043	
MCK 79106	Soil	0.4	22.7	4.4	45	<0.1	22.5	11.3	322	2.47	4.0	0.6	2.4	2.8	17	<0.1	0.2	<0.1	54	0.27	0.050	
MCK 79107	Soil	0.3	58.8	2.8	70	<0.1	24.5	16.1	403	3.05	2.6	0.4	0.7	1.7	16	<0.1	0.2	<0.1	66	0.32	0.067	
MCK 79108	Soil	0.1	58.0	1.8	67	<0.1	16.6	12.9	340	3.06	0.8	0.2	<0.5	0.8	20	<0.1	<0.1	<0.1	63	0.41	0.069	
MCK 79109	Soil	0.4	47.7	4.4	80	<0.1	22.4	14.7	403	3.37	4.0	0.5	<0.5	2.4	24	<0.1	0.2	<0.1	64	0.36	0.041	
MCK 79110	Soil	0.3	57.9	2.9	59	<0.1	15.8	14.8	269	3.22	3.3	0.3	1.1	1.5	17	<0.1	0.2	<0.1	103	0.19	0.020	
MCK 79111	Soil	0.4	15.1	2.7	39	<0.1	64.9	13.1	337	2.73	3.4	0.4	<0.5	1.9	16	<0.1	0.2	<0.1	59	0.26	0.043	
MCK 79151	Soil	0.9	23.0	5.1	53	<0.1	17.3	9.9	266	2.54	3.9	1.1	3.7	4.4	36	<0.1	0.2	0.1	57	0.67	0.098	
MCK 79152	Soil	0.6	10.6	5.8	42	<0.1	13.0	5.8	144	1.94	3.7	0.9	6.9	2.5	24	<0.1	0.2	0.1	36	0.30	0.057	
MCK 79153	Soil	0.5	13.3	5.5	37	<0.1	11.9	4.9	107	1.76	3.6	0.7	0.6	1.1	20	<0.1	0.2	0.1	31	0.24	0.052	
MCK 79154	Soil	0.4	13.0	4.8	26	<0.1	8.7	3.4	81	1.48	2.6	0.6	5.2	0.8	17	<0.1	0.1	<0.1	25	0.18	0.043	
MCK 79155	Soil	0.6	52.9	4.0	55	0.1	14.4	10.9	436	2.49	4.6	1.2	2.1	1.7	30	0.1	0.3	<0.1	51	0.82	0.091	
MCK 79156	Soil	0.4	91.7	2.3	76	<0.1	13.6	15.3	446	3.50	1.6	0.5	<0.5	0.9	24	0.1	0.2	<0.1	82	0.47	0.072	
MCK 79157	Soil	0.5	47.4	6.3	49	0.1	26.6	11.2	444	2.52	6.0	0.9	3.7	2.8	42	0.2	0.4	0.1	55	0.96	0.069	
MCK 79158	Soil	0.5	43.9	4.0	65	<0.1	86.5	23.8	628	3.91	3.2	0.5	<0.5	1.5	47	<0.1	0.2	<0.1	113	0.73	0.123	
MCK 79159	Soil	0.6	28.8	14.7	84	<0.1	35.6	21.8	683	5.45	7.0	2.4	0.8	12.2	27	0.2	0.2	<0.1	126	0.73	0.190	
MCK 79160	Soil	0.8	63.8	6.2	55	<0.1	28.2	13.9	404	3.22	7.1	0.5	4.4	2.9	32	0.1	0.4	0.1	82	0.44	0.048	
MCK 79161	Soil	1.3	102.9	6.8	70	0.1	18.2	14.6	536	3.91	7.9	0.3	1.3	1.7	25	<0.1	0.6	0.1	113	0.35	0.049	
MCK 79162	Soil	0.5	151.9	5.4	86	<0.1	25.7	21.3	729	4.71	5.3	0.6	3.3	2.8	30	<0.1	0.6	0.1	116	0.61	0.086	
MCK 79163	Soil	0.6	87.9	5.6	58	<0.1	22.1	12.4	320	3.10	4.9	0.4	2.5	1.8	29	<0.1	0.4	<0.1	86	0.39	0.065	
MCK 79164	Soil	0.5	90.1	5.8	59	<0.1	23.4	12.6	328	3.08	5.3	0.4	1.5	1.8	29	<0.1	0.4	<0.1	84	0.38	0.065	
MCK 79165	Soil	0.3	75.9	22.6	81	<0.1	108.5	28.4	557	4.27	1.9	2.1	0.9	17.0	115	<0.1	0.4	0.2	123	1.00	0.225	
MCK 79166	Soil	0.4	59.0	8.0	64	0.1	55.7	17.4	359	3.13	2.1	1.0	2.7	5.8	57	<0.1	0.2	0.1	84	0.49	0.133	
MCK 79167	Soil	0.5	36.9	7.3	59	<0.1	31.6	11.2	272	2.71	5.3	0.9	0.8	3.4	32	<0.1	0.2	0.1	70	0.41	0.075	
MCK 79168	Soil	0.4	53.2	11.8	62	<0.1	47.7	20.2	377	3.40	2.8	0.9	1.0	6.2	40	<0.1	0.2	<0.1	92	0.49	0.116	
MCK 79169	Soil	0.4	39.2	7.0	52	<0.1	36.1	14.0	283	2.85	3.6	0.7	1.1	4.1	27	<0.1	0.2	<0.1	73	0.35	0.080	
MCK 79170	Soil	0.5	35.2	7.1	52	<0.1	28.8	11.2	254	2.62	4.8	0.7	1.8	3.6	27	<0.1	0.2	<0.1	65	0.32	0.065	
MCK 79171	Soil	0.7	34.0	13.8	88	<0.1	24.6	12.3	474	3.23	2.2	1.9	<0.5	9.0	54	<0.1	0.1	0.1	56	0.38	0.101	
MCK 79172	Soil	0.6	47.6	6.3	58	<0.1	39.4	18.5	374	2.89	3.6	0.4	<0.5	1.7	41	<0.1	0.1	<0.1	85	0.46	0.132	
MCK 79173	Soil	0.6	35.5	8.8	61	0.1	28.9	14.2	341	2.83	4.2	1.2	2.7	3.7	34	0.1	0.3	0.1	72	0.49	0.078	



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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
MCK 79105	Soil	7	27	0.83	180	0.135	<1	1.79	0.013	0.15	0.1	0.02	3.1	<0.1	<0.05	7	<0.5
MCK 79106	Soil	10	55	0.86	244	0.125	<1	1.77	0.012	0.15	0.1	0.01	2.7	<0.1	<0.05	6	<0.5
MCK 79107	Soil	5	49	1.14	190	0.132	<1	2.13	0.019	0.30	0.1	0.01	4.0	<0.1	<0.05	7	<0.5
MCK 79108	Soil	4	37	1.38	323	0.179	<1	2.27	0.018	0.49	<0.1	<0.01	3.3	0.1	<0.05	7	<0.5
MCK 79109	Soil	10	49	1.33	233	0.169	<1	2.54	0.016	0.28	0.1	0.01	5.2	0.1	<0.05	9	<0.5
MCK 79110	Soil	7	17	1.45	165	0.166	<1	2.60	0.016	0.29	0.2	<0.01	4.4	0.1	<0.05	7	<0.5
MCK 79111	Soil	11	128	1.34	224	0.156	<1	1.92	0.011	0.33	0.1	<0.01	3.2	0.2	<0.05	7	<0.5
MCK 79151	Soil	17	28	0.77	189	0.138	<1	1.82	0.023	0.13	0.2	0.04	4.0	0.1	0.07	7	<0.5
MCK 79152	Soil	15	24	0.45	147	0.095	<1	1.46	0.014	0.05	0.2	0.03	2.5	<0.1	<0.05	6	<0.5
MCK 79153	Soil	10	25	0.38	111	0.083	<1	1.22	0.013	0.04	0.1	0.04	2.0	<0.1	0.05	5	<0.5
MCK 79154	Soil	8	21	0.26	82	0.065	<1	0.94	0.012	0.03	0.1	0.03	1.6	<0.1	<0.05	5	<0.5
MCK 79155	Soil	9	21	0.69	225	0.090	<1	1.40	0.025	0.13	0.1	0.02	4.5	<0.1	<0.05	6	0.7
MCK 79156	Soil	3	23	1.28	194	0.232	<1	2.00	0.020	0.37	<0.1	<0.01	4.2	0.1	<0.05	8	<0.5
MCK 79157	Soil	16	41	0.72	410	0.090	<1	1.49	0.031	0.08	0.2	0.01	3.9	<0.1	0.06	5	0.7
MCK 79158	Soil	6	142	2.28	545	0.273	<1	2.73	0.012	0.70	<0.1	<0.01	3.6	0.3	<0.05	9	<0.5
MCK 79159	Soil	50	107	2.37	664	0.351	<1	2.97	0.011	0.84	0.2	0.01	9.2	0.6	<0.05	16	<0.5
MCK 79160	Soil	12	41	0.96	268	0.129	<1	2.06	0.028	0.08	0.1	0.02	4.2	<0.1	<0.05	6	<0.5
MCK 79161	Soil	6	26	0.77	217	0.158	<1	2.27	0.033	0.06	0.1	0.01	3.2	<0.1	<0.05	8	<0.5
MCK 79162	Soil	13	32	0.84	328	0.071	2	2.08	0.025	0.08	0.1	0.05	11.9	<0.1	<0.05	8	0.6
MCK 79163	Soil	9	42	0.88	481	0.166	<1	1.90	0.021	0.13	0.1	0.02	3.5	<0.1	<0.05	6	<0.5
MCK 79164	Soil	9	39	0.83	458	0.165	<1	1.91	0.023	0.13	0.1	<0.01	3.4	<0.1	<0.05	7	<0.5
MCK 79165	Soil	38	254	2.75	620	0.267	<1	2.67	0.012	0.69	0.4	<0.01	3.3	0.4	<0.05	14	<0.5
MCK 79166	Soil	15	135	1.90	694	0.248	<1	2.41	0.016	0.56	<0.1	0.01	2.2	0.3	<0.05	10	<0.5
MCK 79167	Soil	12	69	1.04	447	0.167	<1	1.75	0.018	0.19	0.1	0.01	2.7	0.1	<0.05	7	<0.5
MCK 79168	Soil	16	128	1.64	1164	0.245	<1	2.31	0.015	0.83	<0.1	<0.01	3.3	0.3	<0.05	9	<0.5
MCK 79169	Soil	12	81	1.07	502	0.178	<1	1.73	0.016	0.30	0.1	<0.01	2.3	0.2	<0.05	7	<0.5
MCK 79170	Soil	10	66	0.93	327	0.158	<1	1.69	0.017	0.15	0.1	<0.01	2.4	0.1	<0.05	6	<0.5
MCK 79171	Soil	21	50	1.17	490	0.178	<1	1.98	0.011	0.70	0.1	<0.01	2.4	0.5	<0.05	9	<0.5
MCK 79172	Soil	7	91	1.50	813	0.228	<1	2.01	0.015	0.70	0.1	<0.01	1.9	0.2	<0.05	7	<0.5
MCK 79173	Soil	16	53	0.97	652	0.148	<1	1.79	0.021	0.25	0.2	0.04	3.8	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
		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
MCK 79174	Soil	0.5	43.4	8.2	54	0.1	24.3	11.2	314	2.55	5.6	1.2	3.6	3.7	32	0.2	0.4	0.1	67	0.45
MCK 79175	Soil	0.5	55.2	12.4	65	0.1	33.8	11.7	471	2.84	5.8	1.1	112.2	4.5	41	0.2	0.5	0.2	68	0.87
MCK 79176	Soil	0.4	43.0	18.1	64	<0.1	42.8	18.6	519	4.03	3.3	0.9	11.2	5.9	33	0.1	0.3	0.2	98	0.79
MCK 79177	Soil	0.4	67.1	11.7	62	<0.1	84.2	17.9	546	3.71	3.4	1.1	1.8	10.6	34	<0.1	0.4	0.2	89	0.60
MCK 79178	Soil	0.7	44.3	13.7	61	<0.1	49.5	16.3	485	3.62	6.8	1.1	2.3	5.2	35	<0.1	0.4	0.1	88	0.36
MCK 79179	Soil	0.8	71.4	7.1	59	<0.1	26.0	14.0	435	3.31	6.1	0.3	4.2	1.6	43	<0.1	0.5	0.1	91	0.44
MCK 79180	Soil	0.8	46.1	7.8	52	<0.1	24.1	11.9	355	3.14	8.8	0.4	10.4	2.8	26	<0.1	0.6	0.1	80	0.26
MCK 79208	Soil	0.9	16.7	10.6	77	<0.1	19.2	8.7	496	2.89	4.0	1.7	1.9	12.8	24	0.2	0.2	0.3	51	0.37
MCK 79209	Soil	1.1	20.4	7.9	73	0.1	22.0	9.9	602	2.72	3.4	2.6	1.2	10.5	27	0.3	0.2	0.2	58	0.47
MCK 79210	Soil	1.1	16.3	6.3	54	<0.1	14.8	8.2	698	2.26	3.0	3.0	0.8	9.2	36	0.2	0.2	0.2	39	0.65
MCK 79211	Soil	1.5	32.2	7.2	49	0.2	11.6	7.1	599	2.61	3.4	6.7	1.5	8.8	33	0.2	0.2	0.2	35	0.67
MCK 79212	Soil	1.9	27.9	7.1	44	<0.1	12.7	6.7	276	2.79	5.1	3.3	4.2	9.6	18	<0.1	0.3	0.3	43	0.26
MCK 79213	Soil	1.1	26.6	7.4	37	0.3	12.8	6.2	379	2.74	4.3	1.0	1.7	3.4	17	0.1	0.4	0.3	66	0.27
MCK 79214	Soil	0.6	30.9	5.7	58	<0.1	18.1	10.2	389	3.04	5.3	0.6	3.4	2.9	14	<0.1	0.4	<0.1	60	0.17
MCK 79215	Soil	0.3	52.8	4.5	46	<0.1	18.5	10.7	329	2.69	4.2	0.4	2.5	1.6	18	<0.1	0.2	<0.1	68	0.32
MCK 79216	Soil	0.6	41.9	4.4	63	<0.1	13.3	12.7	395	2.88	4.8	1.1	0.9	1.6	24	<0.1	0.3	<0.1	62	0.46
MCK 79217	Soil	0.6	34.3	6.7	57	<0.1	22.0	9.9	261	2.89	9.0	0.5	1.8	3.0	17	0.1	0.5	0.1	63	0.21
MCK 79218	Soil	0.8	17.3	7.7	54	<0.1	21.7	11.1	359	2.87	8.0	0.4	1.2	2.2	21	<0.1	0.5	0.1	69	0.23
MCK 79219	Soil	0.2	39.1	4.5	54	<0.1	49.5	17.3	317	2.71	3.1	0.2	0.7	1.2	29	<0.1	0.2	<0.1	65	0.32
MCK 79220	Soil	0.3	34.9	4.0	64	<0.1	34.7	14.8	333	2.78	3.4	0.3	<0.5	2.0	20	<0.1	0.2	<0.1	63	0.26
MCK 79221	Soil	0.2	41.8	6.2	59	<0.1	35.4	19.0	354	3.14	1.9	0.4	2.2	2.0	47	<0.1	0.2	<0.1	84	0.67
MCK 79222	Soil	0.6	27.9	7.3	50	<0.1	26.3	12.0	280	3.00	6.5	0.7	1.5	3.3	21	<0.1	0.3	0.1	76	0.28
MCK 79223	Soil	0.5	26.5	5.8	52	<0.1	25.5	12.5	301	2.65	5.7	0.7	4.3	3.3	23	0.1	0.2	<0.1	62	0.34
MCK 79224	Soil	0.6	31.9	8.8	56	0.2	27.8	10.7	296	2.92	4.5	1.7	6.6	5.2	26	<0.1	0.2	0.1	72	0.37
MCK 79225	Soil	0.6	39.9	9.6	71	<0.1	44.8	14.8	466	3.50	3.8	1.6	2.8	6.6	26	<0.1	0.1	0.1	87	0.41
MCK 79226	Soil	0.5	28.7	6.8	55	<0.1	24.2	9.8	296	2.68	4.8	1.1	1.9	4.3	22	<0.1	0.2	0.1	65	0.34
MCK 79227	Soil	0.3	81.8	3.2	50	<0.1	25.3	12.4	304	2.68	2.7	0.8	2.5	2.1	22	<0.1	0.1	<0.1	87	0.42
MCK 79228	Soil	0.5	72.3	5.6	56	0.2	19.6	9.8	232	2.50	5.2	0.9	3.1	2.2	24	0.1	0.2	0.1	68	0.31
MCK 79229	Soil	0.7	45.9	6.1	51	<0.1	19.6	9.2	254	2.71	5.6	0.7	3.4	2.6	22	<0.1	0.2	0.1	74	0.29
MCK 79230	Soil	0.5	65.6	5.3	47	0.1	21.2	8.9	210	2.37	4.3	0.7	2.2	2.1	20	<0.1	0.1	<0.1	70	0.29



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
MCK 79174	Soil	14	47	0.74	423	0.109	<1	1.66	0.021	0.08	0.3	0.02	4.1	<0.1	0.08	6
MCK 79175	Soil	18	47	0.78	575	0.091	2	1.58	0.031	0.05	0.2	0.04	5.3	<0.1	0.07	5
MCK 79176	Soil	14	101	1.58	544	0.099	1	2.25	0.018	0.07	0.2	0.03	7.7	<0.1	0.06	9
MCK 79177	Soil	38	181	1.69	479	0.113	1	2.30	0.014	0.07	0.2	0.01	6.3	<0.1	<0.05	9
MCK 79178	Soil	14	125	1.36	324	0.157	<1	2.49	0.013	0.06	0.2	0.01	4.2	<0.1	<0.05	8
MCK 79179	Soil	5	36	0.87	197	0.120	1	1.96	0.025	0.06	0.1	<0.01	3.3	<0.1	<0.05	7
MCK 79180	Soil	8	35	0.65	303	0.088	<1	2.02	0.015	0.06	0.1	<0.01	3.3	<0.1	<0.05	6
MCK 79208	Soil	28	33	0.70	494	0.103	<1	1.55	0.011	0.20	<0.1	<0.01	2.3	0.2	<0.05	7
MCK 79209	Soil	37	38	0.74	606	0.122	<1	1.79	0.014	0.19	0.2	0.02	3.9	0.2	0.07	7
MCK 79210	Soil	36	23	0.54	374	0.096	<1	1.43	0.013	0.14	0.2	0.02	2.6	0.2	0.08	6
MCK 79211	Soil	60	20	0.45	536	0.083	1	1.43	0.012	0.21	0.2	0.05	3.3	0.2	0.08	6
MCK 79212	Soil	36	23	0.52	233	0.077	<1	1.55	0.011	0.12	0.2	0.02	2.6	0.1	<0.05	6
MCK 79213	Soil	12	27	0.33	265	0.047	<1	1.44	0.011	0.11	0.1	0.02	3.5	<0.1	<0.05	7
MCK 79214	Soil	9	28	0.63	167	0.048	<1	1.61	0.011	0.07	0.2	0.01	5.4	<0.1	<0.05	6
MCK 79215	Soil	7	40	0.90	150	0.106	<1	1.60	0.018	0.06	0.1	0.01	3.6	<0.1	<0.05	6
MCK 79216	Soil	6	22	0.77	192	0.095	<1	1.91	0.021	0.09	0.1	0.01	4.3	<0.1	<0.05	7
MCK 79217	Soil	8	34	0.61	181	0.092	<1	2.01	0.013	0.08	0.1	<0.01	3.5	<0.1	<0.05	6
MCK 79218	Soil	7	39	0.62	225	0.080	<1	1.96	0.013	0.06	0.1	<0.01	2.8	<0.1	<0.05	6
MCK 79219	Soil	4	136	1.51	202	0.186	<1	2.02	0.012	0.29	<0.1	<0.01	2.4	0.1	<0.05	7
MCK 79220	Soil	8	80	1.21	245	0.178	<1	1.97	0.014	0.22	<0.1	<0.01	2.5	0.2	<0.05	6
MCK 79221	Soil	7	76	1.88	764	0.241	<1	2.40	0.017	0.55	<0.1	<0.01	2.4	0.1	<0.05	8
MCK 79222	Soil	10	55	0.98	396	0.147	1	1.88	0.013	0.17	<0.1	<0.01	3.0	0.1	<0.05	7
MCK 79223	Soil	9	52	0.87	359	0.139	1	1.82	0.013	0.17	0.1	<0.01	2.8	0.1	<0.05	6
MCK 79224	Soil	16	73	1.03	481	0.178	<1	1.88	0.015	0.26	0.2	0.01	3.7	0.2	<0.05	8
MCK 79225	Soil	18	109	1.63	813	0.202	<1	2.33	0.015	0.60	0.1	<0.01	4.8	0.3	<0.05	9
MCK 79226	Soil	13	50	0.90	372	0.158	<1	1.70	0.015	0.19	0.1	0.01	3.3	0.1	0.05	7
MCK 79227	Soil	7	53	1.01	396	0.173	<1	1.59	0.021	0.35	<0.1	0.01	3.2	0.1	<0.05	6
MCK 79228	Soil	10	38	0.78	327	0.128	1	1.60	0.018	0.13	0.1	0.02	2.7	<0.1	<0.05	6
MCK 79229	Soil	10	40	0.77	274	0.143	1	1.62	0.015	0.09	0.1	0.02	2.8	0.1	<0.05	6
MCK 79230	Soil	8	45	0.82	276	0.156	<1	1.59	0.015	0.13	<0.1	0.01	2.8	0.1	<0.05	6



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
MCK 79231	Soil		0.5	58.2	6.4	48	0.1	21.7	9.5	219	2.65	5.6	0.6	1.9	2.2	19	<0.1	0.2	0.1	70	0.29	0.063
MCK 79232	Soil		0.6	72.3	21.1	60	<0.1	29.3	12.6	338	3.22	5.7	0.7	2.7	3.3	22	<0.1	0.2	0.2	91	0.30	0.058
MCK 79233	Soil		0.6	26.8	9.3	71	<0.1	70.2	18.7	479	3.83	3.2	1.2	5.5	6.2	28	<0.1	<0.1	0.1	103	0.48	0.128
MCK 79234	Soil		0.6	31.2	7.7	59	<0.1	29.2	13.1	310	3.25	6.8	1.0	1.5	4.7	26	<0.1	0.3	0.1	78	0.37	0.063
MCK 79235	Soil		0.5	33.3	7.6	64	<0.1	32.4	14.4	373	3.31	5.2	1.0	3.6	4.9	27	0.1	0.3	<0.1	81	0.38	0.080
MCK 79236	Soil		0.3	31.1	6.9	58	<0.1	54.0	19.9	395	3.45	2.1	0.7	0.5	4.0	41	<0.1	0.1	<0.1	84	0.51	0.123
MCK 79237	Soil		0.6	18.5	7.4	57	<0.1	34.2	13.3	286	2.80	5.3	0.6	0.7	3.2	25	0.1	0.3	0.1	72	0.23	0.097
MCK 79243	Soil		0.3	74.6	2.7	46	<0.1	21.7	12.0	288	2.46	2.1	0.7	0.8	1.8	20	<0.1	0.1	<0.1	80	0.38	0.085
MCK 79291	Soil		0.3	38.6	4.4	58	<0.1	21.8	12.6	295	2.60	2.1	1.1	2.4	3.8	23	<0.1	0.1	<0.1	66	0.41	0.118
MCK 79292	Soil		0.1	28.8	10.7	75	<0.1	30.5	13.5	446	3.24	1.0	2.2	1.4	12.0	54	0.1	<0.1	0.2	88	0.82	0.121
MCK 79293	Soil		0.3	30.2	4.4	57	<0.1	23.1	14.0	365	2.84	3.4	0.7	1.2	3.4	20	<0.1	0.1	<0.1	78	0.34	0.094
MCK 79294	Soil		0.2	45.0	3.5	61	<0.1	40.6	17.3	374	3.01	2.0	0.4	0.7	2.0	26	<0.1	<0.1	<0.1	80	0.41	0.113
MCK 79295	Soil		0.5	30.6	6.1	50	<0.1	15.6	8.6	249	2.52	5.2	0.7	2.1	2.9	17	<0.1	0.3	0.1	64	0.22	0.039
MCK 79296	Soil		0.6	28.6	6.5	51	<0.1	15.0	8.4	209	2.72	6.3	0.4	2.5	2.1	17	<0.1	0.3	0.1	69	0.20	0.026
MCK 79297	Soil		0.5	35.4	6.1	58	<0.1	20.5	11.9	295	2.76	6.9	0.4	2.4	3.1	15	<0.1	0.4	0.1	64	0.20	0.034
MCK 79298	Soil		0.5	37.0	4.9	57	<0.1	12.7	9.6	260	2.42	5.1	0.6	1.5	1.9	17	<0.1	0.3	0.1	54	0.25	0.052
MCK 79299	Soil		0.2	151.2	2.3	89	<0.1	4.4	9.6	242	2.01	1.6	0.2	<0.5	0.8	7	0.2	0.1	<0.1	44	0.33	0.116
MCK 79300	Soil		0.5	37.7	5.6	51	<0.1	20.9	9.2	322	2.49	6.8	0.7	4.8	3.5	22	<0.1	0.5	0.1	60	0.30	0.056
MCK 79301	Soil		0.4	26.1	3.9	55	<0.1	16.6	9.3	288	2.47	4.4	0.4	1.4	2.3	17	<0.1	0.3	<0.1	56	0.24	0.035
MCK 79302	Soil		0.6	22.4	4.0	41	<0.1	17.4	10.0	319	2.90	5.1	0.4	0.7	1.7	20	<0.1	0.3	0.1	75	0.27	0.039
MCK 79303	Soil		0.9	6.2	2.6	38	<0.1	14.3	9.1	447	3.12	2.4	1.0	<0.5	6.6	27	<0.1	0.2	0.1	56	0.30	0.055
MCK 79304	Soil		0.4	10.4	3.8	46	<0.1	14.0	8.9	389	2.72	3.3	1.3	1.1	7.5	27	<0.1	0.2	<0.1	46	0.41	0.064
MCK 79306	Soil		1.6	15.0	5.3	49	0.1	14.1	8.3	473	2.73	3.4	5.1	1.3	7.3	25	<0.1	0.3	0.3	45	0.32	0.064
MCK 79307	Soil		2.0	17.6	8.1	53	0.2	8.5	5.9	397	2.69	2.9	4.8	7.4	6.1	24	<0.1	0.2	0.3	38	0.47	0.063
MCK 79308	Soil		1.5	25.5	10.8	50	0.2	14.8	10.7	961	2.87	4.1	7.0	2.9	7.6	28	<0.1	0.3	0.3	47	0.54	0.071
MCK 79309	Soil		1.5	27.7	11.3	71	0.2	21.0	12.3	802	3.18	4.4	3.0	5.7	10.6	23	0.1	0.2	0.3	52	0.41	0.076
MCK 79310	Soil		1.0	13.0	8.1	62	<0.1	10.8	11.8	806	2.69	3.7	1.4	<0.5	10.6	18	0.1	0.2	0.1	48	0.29	0.074
MCK 79311	Soil		1.1	21.4	7.1	55	<0.1	28.2	11.4	346	2.62	4.1	1.2	3.0	6.3	23	<0.1	0.3	0.2	77	0.33	0.064
MCK 79312	Soil		1.2	20.3	6.8	57	<0.1	28.6	13.4	438	3.00	4.9	1.2	1.3	6.9	22	<0.1	0.3	0.2	71	0.31	0.064
MCK 79313	Soil		0.9	19.2	9.9	57	<0.1	20.8	10.3	376	2.95	6.8	1.1	1.7	8.1	19	<0.1	0.4	0.2	51	0.33	0.052



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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
MCK 79231	Soil	9	42	0.79	266	0.139	1	1.58	0.015	0.13	0.1	0.01	2.7	0.1	<0.05	7	<0.5
MCK 79232	Soil	11	56	1.02	332	0.151	<1	1.93	0.013	0.15	<0.1	0.01	4.0	0.1	<0.05	7	<0.5
MCK 79233	Soil	16	179	1.82	788	0.274	<1	2.52	0.013	0.79	0.1	<0.01	4.3	0.4	<0.05	11	<0.5
MCK 79234	Soil	14	60	1.09	451	0.180	1	2.10	0.015	0.20	0.2	0.02	4.5	0.1	<0.05	8	<0.5
MCK 79235	Soil	12	77	1.45	445	0.209	<1	2.42	0.013	0.31	0.1	<0.01	3.8	0.2	<0.05	8	<0.5
MCK 79236	Soil	13	130	2.00	1172	0.281	<1	2.71	0.016	0.87	<0.1	<0.01	2.2	0.3	<0.05	9	<0.5
MCK 79237	Soil	8	70	1.09	525	0.151	<1	1.97	0.009	0.13	0.1	0.01	1.9	<0.1	<0.05	8	<0.5
MCK 79243	Soil	7	47	0.99	374	0.157	<1	1.55	0.017	0.34	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5
MCK 79291	Soil	15	52	1.07	659	0.164	<1	1.79	0.013	0.47	<0.1	0.02	3.9	0.2	<0.05	7	<0.5
MCK 79292	Soil	35	93	1.74	1189	0.247	<1	2.93	0.012	0.96	<0.1	<0.01	6.3	0.5	<0.05	12	<0.5
MCK 79293	Soil	10	58	1.12	679	0.180	<1	1.80	0.013	0.40	<0.1	0.01	2.6	0.2	<0.05	7	<0.5
MCK 79294	Soil	8	87	1.71	767	0.241	<1	2.33	0.012	0.71	<0.1	<0.01	2.2	0.2	<0.05	7	<0.5
MCK 79295	Soil	10	28	0.56	196	0.102	1	1.57	0.013	0.07	0.1	0.01	3.3	<0.1	<0.05	5	<0.5
MCK 79296	Soil	8	27	0.53	144	0.100	<1	1.70	0.011	0.04	0.1	0.01	3.2	<0.1	<0.05	7	<0.5
MCK 79297	Soil	8	32	0.62	180	0.096	1	1.97	0.011	0.05	0.1	0.01	3.5	<0.1	<0.05	5	<0.5
MCK 79298	Soil	10	21	0.62	166	0.086	<1	1.86	0.014	0.06	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5
MCK 79299	Soil	4	6	0.84	132	0.096	<1	1.48	0.017	0.21	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5
MCK 79300	Soil	13	32	0.57	220	0.093	1	1.51	0.013	0.06	0.2	0.02	6.4	<0.1	<0.05	5	<0.5
MCK 79301	Soil	7	23	0.59	131	0.130	<1	1.37	0.009	0.16	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5
MCK 79302	Soil	5	29	0.84	147	0.118	<1	1.84	0.011	0.12	0.1	0.01	3.5	<0.1	<0.05	6	<0.5
MCK 79303	Soil	12	28	0.97	337	0.238	<1	1.89	0.008	0.54	0.2	<0.01	3.3	0.2	<0.05	8	<0.5
MCK 79304	Soil	22	26	0.74	246	0.154	<1	1.60	0.010	0.28	0.1	0.01	3.5	0.2	<0.05	6	<0.5
MCK 79306	Soil	46	26	0.62	311	0.105	<1	1.66	0.010	0.30	0.1	0.02	3.9	0.1	<0.05	7	<0.5
MCK 79307	Soil	49	15	0.29	865	0.019	1	1.26	0.008	0.09	0.2	0.04	3.5	0.5	<0.05	5	0.6
MCK 79308	Soil	84	22	0.41	650	0.045	1	1.70	0.010	0.09	0.1	0.07	3.7	0.3	<0.05	7	0.8
MCK 79309	Soil	56	30	0.57	517	0.066	2	1.86	0.010	0.18	0.2	0.04	4.9	0.2	<0.05	7	0.6
MCK 79310	Soil	20	18	0.62	169	0.122	<1	1.49	0.008	0.32	0.2	0.01	1.8	0.3	<0.05	8	<0.5
MCK 79311	Soil	24	48	0.78	409	0.149	<1	1.74	0.014	0.17	0.1	0.01	4.7	0.2	<0.05	7	<0.5
MCK 79312	Soil	19	50	0.91	292	0.150	<1	2.04	0.010	0.19	0.1	0.01	3.3	0.2	<0.05	7	<0.5
MCK 79313	Soil	22	28	0.54	251	0.064	<1	1.90	0.010	0.09	0.2	0.02	3.0	0.2	<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	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
MCK 79314	Soil	1.0	27.2	11.1	65	0.2	23.9	12.5	751	2.96	3.7	6.0	2.7	9.8	28	<0.1	0.3	0.3	56	0.71
MCK 79315	Soil	0.9	15.3	10.3	54	<0.1	13.2	8.4	536	3.05	2.7	2.2	1.3	14.9	15	<0.1	0.2	0.4	36	0.23
MCK 79316	Soil	2.9	17.9	4.0	48	<0.1	5.3	5.3	361	3.29	3.1	2.1	1.1	9.7	24	<0.1	0.2	0.6	21	0.15
MCK 79317	Soil	1.5	25.9	5.2	51	<0.1	12.8	9.1	412	2.65	4.4	2.3	2.6	9.2	22	<0.1	0.3	0.2	44	0.27
MCK 79318	Soil	5.0	14.6	5.1	36	<0.1	25.8	8.3	259	2.73	2.9	4.9	1.2	14.1	20	<0.1	0.2	0.6	39	0.16
MCK 79319	Soil	0.7	10.4	4.5	65	<0.1	11.9	7.1	368	3.04	4.3	0.8	1.2	5.4	22	<0.1	0.3	0.1	40	0.23
MCK 79320	Soil	0.9	16.8	6.8	53	<0.1	20.7	11.2	352	2.87	8.0	0.8	2.7	4.2	19	<0.1	0.5	0.2	62	0.23
MCK 79321	Soil	1.6	26.8	5.2	52	<0.1	12.7	8.9	415	2.69	4.8	2.2	1.5	9.3	23	<0.1	0.3	0.2	48	0.28
MCK 79322	Soil	0.2	8.3	3.0	37	<0.1	13.9	10.6	397	2.98	1.5	0.8	0.6	6.5	22	<0.1	0.1	0.1	52	0.29



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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
MCK 79314	Soil	75	37	0.60	661	0.085	<1	2.03	0.011	0.13	0.2	0.06	4.9	0.3	<0.05	7	1.3
MCK 79315	Soil	46	27	0.62	183	0.096	1	1.69	0.008	0.27	0.2	0.02	2.8	0.6	<0.05	7	<0.5
MCK 79316	Soil	38	8	0.52	215	0.142	<1	1.51	0.009	0.47	<0.1	<0.01	2.0	0.3	<0.05	7	<0.5
MCK 79317	Soil	35	21	0.62	227	0.112	<1	1.54	0.014	0.21	0.1	0.01	2.7	0.2	<0.05	6	<0.5
MCK 79318	Soil	88	49	0.78	187	0.088	<1	1.60	0.010	0.09	<0.1	<0.01	3.3	0.2	<0.05	6	1.0
MCK 79319	Soil	21	20	0.49	246	0.145	<1	1.55	0.008	0.25	0.1	<0.01	2.2	0.1	<0.05	7	0.5
MCK 79320	Soil	13	32	0.62	238	0.111	<1	1.92	0.011	0.10	0.1	0.02	3.4	0.1	<0.05	6	<0.5
MCK 79321	Soil	37	23	0.59	232	0.120	<1	1.56	0.009	0.21	0.1	0.02	2.8	0.2	<0.05	6	<0.5
MCK 79322	Soil	14	26	0.93	351	0.242	<1	1.95	0.009	0.61	0.1	<0.01	2.8	0.2	<0.05	7	<0.5



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																				
MCK 65519	Soil	0.4	107.4	2.0	41	<0.1	18.3	15.8	280	2.63	2.1	0.3	0.5	0.5	35	<0.1	0.1	<0.1	92	0.52
REP MCK 65519	QC	0.4	111.8	1.9	42	<0.1	19.3	14.8	269	2.69	1.9	0.3	1.1	0.5	33	<0.1	<0.1	<0.1	92	0.46
MCK 65533	Soil	0.4	152.9	2.5	47	<0.1	24.3	17.5	361	3.21	2.7	0.4	1.5	1.0	32	<0.1	0.2	<0.1	130	0.53
REP MCK 65533	QC	0.4	155.2	2.3	48	<0.1	24.7	17.1	368	3.24	2.6	0.3	0.7	1.0	30	<0.1	0.2	<0.1	129	0.53
MCK 65926	Soil	1.8	25.9	6.4	56	<0.1	14.5	8.1	468	3.03	4.7	1.7	2.7	8.2	21	<0.1	0.3	0.2	43	0.29
REP MCK 65926	QC	1.9	25.3	6.3	55	<0.1	14.0	8.3	469	2.97	5.1	1.6	2.7	8.4	21	0.1	0.3	0.2	43	0.28
MCK 68125	Soil	0.4	10.8	5.3	54	<0.1	8.4	6.4	525	2.48	2.3	3.0	1.1	19.8	36	<0.1	0.2	0.3	22	0.45
REP MCK 68125	QC	0.4	11.1	5.3	57	<0.1	8.4	6.2	511	2.49	2.7	3.0	0.8	19.1	38	<0.1	0.2	0.3	24	0.46
MCK 79027	Soil	0.4	87.2	7.7	57	<0.1	18.0	12.1	251	3.00	4.8	0.4	3.7	1.6	22	<0.1	0.2	0.1	94	0.30
REP MCK 79027	QC	0.4	92.8	7.7	58	<0.1	19.7	12.4	247	2.94	4.3	0.4	11.0	1.7	22	<0.1	0.2	<0.1	97	0.30
MCK 79036	Soil	0.6	30.1	6.8	56	<0.1	21.4	10.6	370	2.93	6.6	0.7	1.0	2.1	25	<0.1	0.4	<0.1	68	0.35
REP MCK 79036	QC	0.6	28.3	7.0	56	<0.1	21.3	10.0	365	2.89	6.3	0.6	1.4	2.1	24	<0.1	0.4	0.1	66	0.34
MCK 79065	Soil	0.7	9.4	3.8	43	<0.1	16.6	9.1	447	2.72	2.1	2.9	0.8	7.0	33	<0.1	0.1	<0.1	45	0.52
REP MCK 79065	QC	0.7	8.6	3.5	42	<0.1	15.6	8.8	430	2.72	1.9	2.7	0.6	6.9	33	<0.1	0.2	<0.1	46	0.51
MCK 79083	Soil	3.7	89.5	11.7	120	<0.1	94.4	24.9	911	5.28	2.7	1.8	<0.5	5.0	36	0.2	0.1	0.2	180	0.50
REP MCK 79083	QC	3.6	92.4	11.7	128	<0.1	96.0	25.2	952	5.41	2.8	1.8	1.5	4.9	34	0.2	0.2	0.2	189	0.47
MCK 79107	Soil	0.3	58.8	2.8	70	<0.1	24.5	16.1	403	3.05	2.6	0.4	0.7	1.7	16	<0.1	0.2	<0.1	66	0.32
REP MCK 79107	QC	0.3	58.0	2.9	70	<0.1	25.5	16.0	412	3.17	2.8	0.4	1.4	1.8	16	<0.1	0.1	<0.1	69	0.34
MCK 79168	Soil	0.4	53.2	11.8	62	<0.1	47.7	20.2	377	3.40	2.8	0.9	1.0	6.2	40	<0.1	0.2	<0.1	92	0.49
REP MCK 79168	QC	0.3	53.7	12.0	59	<0.1	45.3	19.5	351	3.35	2.7	0.9	<0.5	6.2	39	<0.1	0.1	<0.1	88	0.47
MCK 79216	Soil	0.6	41.9	4.4	63	<0.1	13.3	12.7	395	2.88	4.8	1.1	0.9	1.6	24	<0.1	0.3	<0.1	62	0.46
REP MCK 79216	QC	0.5	40.7	4.3	62	<0.1	12.9	12.1	405	2.75	4.6	1.0	<0.5	1.5	24	<0.1	0.3	<0.1	63	0.45
MCK 79222	Soil	0.6	27.9	7.3	50	<0.1	26.3	12.0	280	3.00	6.5	0.7	1.5	3.3	21	<0.1	0.3	0.1	76	0.28
REP MCK 79222	QC	0.6	28.8	7.2	54	<0.1	26.8	12.3	294	3.05	7.0	0.7	2.8	3.2	21	<0.1	0.3	0.1	77	0.29
Reference Materials																				
STD DS7	Standard	21.1	105.1	64.2	401	0.9	54.6	8.9	560	2.25	48.4	4.3	64.5	4.2	72	6.6	6.2	4.6	78	0.95
STD DS7	Standard	21.7	94.9	62.2	376	0.9	53.4	9.2	602	2.25	51.6	4.4	79.6	4.1	80	6.2	5.8	4.2	86	1.01
STD DS7	Standard	20.8	111.1	72.8	420	0.8	57.9	9.3	599	2.35	53.5	5.0	77.7	4.6	78	7.0	6.6	4.9	84	0.94



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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
Pulp Duplicates																	
MCK 65519	Soil	2	25	1.05	311	0.184	<1	1.56	0.018	0.45	<0.1	<0.01	1.9	0.1	<0.05	5	<0.5
REP MCK 65519	QC	2	25	1.02	312	0.177	<1	1.50	0.017	0.46	<0.1	<0.01	1.8	0.1	<0.05	5	<0.5
MCK 65533	Soil	6	50	1.14	211	0.180	<1	1.70	0.025	0.19	0.1	<0.01	4.3	<0.1	<0.05	6	<0.5
REP MCK 65533	QC	6	51	1.20	221	0.194	1	1.69	0.025	0.21	0.1	<0.01	4.4	<0.1	<0.05	7	<0.5
MCK 65926	Soil	28	24	0.60	188	0.122	<1	1.82	0.010	0.18	0.2	<0.01	2.3	0.2	<0.05	6	<0.5
REP MCK 65926	QC	29	22	0.59	187	0.114	<1	1.69	0.010	0.18	0.2	<0.01	2.4	0.2	<0.05	6	<0.5
MCK 68125	Soil	46	11	0.46	237	0.058	3	1.36	0.010	0.25	<0.1	<0.01	2.3	0.1	<0.05	5	<0.5
REP MCK 68125	QC	48	12	0.49	248	0.058	1	1.44	0.009	0.27	0.1	0.01	2.3	0.1	<0.05	5	<0.5
MCK 79027	Soil	5	32	0.89	251	0.167	1	1.63	0.018	0.22	0.1	0.03	2.6	<0.1	<0.05	6	<0.5
REP MCK 79027	QC	5	33	0.90	258	0.173	<1	1.65	0.014	0.22	0.2	0.02	2.5	<0.1	<0.05	6	<0.5
MCK 79036	Soil	7	30	0.74	163	0.124	1	1.75	0.019	0.12	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5
REP MCK 79036	QC	7	29	0.73	164	0.121	1	1.78	0.015	0.13	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5
MCK 79065	Soil	27	26	0.88	342	0.188	<1	1.85	0.009	0.32	0.1	0.01	3.2	0.2	<0.05	7	0.6
REP MCK 79065	QC	26	28	0.85	338	0.186	<1	1.78	0.009	0.31	0.2	<0.01	3.2	0.2	<0.05	7	0.7
MCK 79083	Soil	21	155	2.39	820	0.239	<1	3.93	0.016	0.47	0.1	<0.01	10.2	0.4	<0.05	14	1.0
REP MCK 79083	QC	21	154	2.37	824	0.237	<1	3.82	0.015	0.42	0.2	<0.01	9.8	0.4	<0.05	14	0.7
MCK 79107	Soil	5	49	1.14	190	0.132	<1	2.13	0.019	0.30	0.1	0.01	4.0	<0.1	<0.05	7	<0.5
REP MCK 79107	QC	5	51	1.13	194	0.146	<1	2.23	0.022	0.29	<0.1	<0.01	4.3	<0.1	<0.05	8	<0.5
MCK 79168	Soil	16	128	1.64	1164	0.245	<1	2.31	0.015	0.83	<0.1	<0.01	3.3	0.3	<0.05	9	<0.5
REP MCK 79168	QC	16	122	1.77	1208	0.237	<1	2.44	0.016	0.81	<0.1	<0.01	3.3	0.3	<0.05	9	<0.5
MCK 79216	Soil	6	22	0.77	192	0.095	<1	1.91	0.021	0.09	0.1	0.01	4.3	<0.1	<0.05	7	<0.5
REP MCK 79216	QC	6	22	0.71	188	0.097	<1	1.82	0.019	0.10	<0.1	0.01	4.3	<0.1	<0.05	7	<0.5
MCK 79222	Soil	10	55	0.98	396	0.147	1	1.88	0.013	0.17	<0.1	<0.01	3.0	0.1	<0.05	7	<0.5
REP MCK 79222	QC	10	59	0.95	408	0.148	<1	1.94	0.012	0.18	0.1	0.01	3.0	0.1	<0.05	7	<0.5
Reference Materials																	
STD DS7	Standard	13	190	0.98	387	0.117	37	0.93	0.093	0.40	4.0	0.18	2.4	4.0	0.21	5	4.0
STD DS7	Standard	13	202	1.00	398	0.111	38	1.02	0.104	0.45	3.9	0.19	2.5	4.0	0.24	4	3.1
STD DS7	Standard	12	202	0.98	393	0.127	39	0.99	0.105	0.42	4.1	0.21	3.2	4.3	0.28	4	3.1



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Project: MCK

Report Date: November 24, 2009

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QUALITY CONTROL REPORT

VAN09005509.1

		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
STD DS7	Standard	21.6	112.0	70.5	428	0.9	56.7	9.2	637	2.42	54.8	4.7	62.7	4.4	82	7.0	6.6	4.7	84	0.98	0.079
STD DS7	Standard	21.1	115.3	68.5	417	0.8	56.6	9.3	604	2.36	53.3	4.7	70.4	4.2	76	6.7	6.3	4.7	82	1.02	0.081
STD DS7	Standard	21.8	112.2	73.5	408	0.8	59.4	9.2	590	2.35	55.7	5.1	79.3	5.0	76	6.9	6.5	4.8	77	0.99	0.081
STD DS7	Standard	21.3	107.7	69.8	416	0.9	55.6	9.4	576	2.28	53.9	4.7	94.2	4.5	74	6.8	6.3	4.7	77	0.94	0.088
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



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QUALITY CONTROL REPORT

VAN09005509.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5
STD DS7	Standard	13	201	1.05	443	0.123	36	1.04	0.105	0.43	3.7	0.19	2.5	4.5	0.20	5	3.7
STD DS7	Standard	13	190	1.02	419	0.115	40	1.00	0.094	0.44	3.9	0.19	2.2	4.2	0.18	5	3.8
STD DS7	Standard	14	186	1.03	395	0.119	43	1.05	0.101	0.41	4.3	0.21	2.4	4.5	0.23	5	3.8
STD DS7	Standard	13	182	1.00	383	0.110	41	0.97	0.098	0.40	3.9	0.20	2.0	4.3	0.23	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