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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Pika Exploration Inc
Box 218
Carcross YT Y0B 1B0 Canada

Submitted By: Crispin Studer
Receiving Lab: Canada-Whitehorse
Received: July 03, 2013
Report Date: July 10, 2013
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI13000078.1

CLIENT JOB INFORMATION

Project: HAX
Shipment ID: Pika 01
P.O. Number
Number of Samples: 70

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

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: Pika Exploration Inc
Box 218
Carcross YT Y0B 1B0
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', '1DX2', and 'RJSV'.

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. Results apply to samples as submitted. \*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HAX  
 Report Date: July 10, 2013

Page: 2 of 4

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

WHI13000078.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1527979	Soil	0.8	180.2	4392	2734	1.9	31.6	14.0	857	3.38	449.9	9.4	4.2	65	6.8	15.8	3.0	262	0.49	0.115	16
1527980	Soil	0.8	166.2	136.3	349	0.6	35.2	18.9	705	3.88	351.5	6.2	3.8	62	0.7	3.7	1.0	84	0.42	0.080	15
1527981	Soil	0.8	119.3	83.1	208	0.6	45.1	22.3	612	3.56	147.8	10.1	4.4	53	0.6	3.8	1.1	91	0.46	0.136	18
1527982	Soil	0.7	275.2	94.4	253	2.5	30.1	16.6	794	3.83	476.7	5.7	7.2	77	1.1	11.3	4.9	85	0.69	0.180	27
1527177	Soil	2.0	27.1	26.5	86	0.1	9.0	7.4	455	2.83	22.9	2.8	6.5	42	0.3	1.4	0.6	49	0.23	0.045	13
1527178	Soil	0.9	27.5	33.6	119	0.2	11.8	10.2	665	2.77	42.2	2.8	14.0	65	0.9	0.7	0.7	45	0.57	0.109	30
1527179	Soil	0.6	22.3	20.8	71	0.2	11.7	7.0	359	2.06	34.8	2.2	8.7	27	0.4	0.4	0.5	40	0.34	0.094	23
1527180	Soil	1.2	10.4	10.6	37	0.1	7.8	3.4	196	1.69	8.9	1.2	1.3	12	0.3	0.4	0.3	35	0.12	0.058	13
1527181	Soil	0.8	21.6	16.8	62	<0.1	11.3	6.5	299	1.89	12.9	3.0	6.5	21	0.2	0.4	0.3	39	0.26	0.071	22
1527182	Soil	0.7	30.9	19.5	85	0.1	12.0	5.7	322	1.86	10.7	0.6	9.4	26	0.3	0.4	0.3	40	0.33	0.073	27
1527183	Soil	0.7	26.3	10.0	53	<0.1	15.4	6.3	268	1.98	13.1	2.2	6.0	16	0.2	0.5	0.3	53	0.22	0.060	19
1527184	Soil	0.7	22.3	7.2	40	<0.1	13.8	5.6	235	1.85	14.8	3.9	7.3	18	0.2	0.5	0.2	44	0.26	0.067	20
1527185	Soil	1.8	56.4	13.5	60	0.1	23.1	8.8	281	2.61	42.3	5.0	6.9	23	0.1	0.7	0.4	70	0.24	0.076	19
1527186	Soil	1.9	54.5	13.5	67	0.1	23.6	9.7	309	2.78	32.5	3.8	7.4	26	0.2	0.9	0.4	79	0.32	0.101	23
1527187	Soil	1.8	49.4	12.4	56	<0.1	23.5	9.0	297	2.96	28.2	2.5	1.6	25	<0.1	0.8	0.3	90	0.21	0.058	10
1527188	Soil	3.0	50.3	11.5	54	0.2	17.6	8.7	372	2.93	28.5	3.1	1.0	22	0.2	0.8	0.4	95	0.16	0.070	10
1527189	Soil	4.1	95.6	11.5	69	<0.1	26.9	19.8	451	3.50	28.7	1.3	5.5	23	0.1	0.9	0.3	84	0.21	0.082	16
1527190	Soil	1.6	52.9	13.1	60	0.1	21.7	11.1	571	3.25	169.4	2.6	3.3	59	0.2	0.7	0.4	79	0.24	0.053	16
1527191	Soil	1.1	126.9	38.1	77	0.2	24.6	20.9	671	3.46	100.7	2.7	4.6	23	0.1	1.0	1.1	62	0.23	0.041	21
1527192	Rock Pulp	3.0	22.9	2.4	33	0.4	19.6	7.8	307	1.86	3.2	2.9	0.9	33	0.2	0.3	<0.1	48	0.72	0.044	5
1527193	Soil	0.6	45.4	23.4	70	<0.1	20.4	9.5	437	2.30	15.6	4.6	4.9	24	0.2	0.8	0.3	48	0.25	0.045	15
1527194	Soil	1.0	58.0	40.2	102	0.2	23.3	12.3	690	2.99	30.7	2.5	2.3	27	0.2	1.2	0.3	75	0.29	0.049	11
1527195	Soil	0.7	60.7	44.4	92	<0.1	23.8	10.5	696	2.56	22.8	5.4	3.6	27	0.3	1.2	0.5	58	0.29	0.053	12
1527477	Soil	1.4	89.8	11.7	84	0.2	55.1	19.7	348	3.81	22.9	5.9	1.2	26	0.1	0.8	0.1	107	0.30	0.059	6
1527478	Soil	49.5	77.7	7126	1011	8.3	1.7	8.0	4660	5.03	481.8	4.3	52.7	9	8.9	65.9	0.2	12	0.07	0.096	35
1527479	Soil	0.7	18.7	22.5	69	<0.1	11.0	9.3	424	2.88	7.0	1.4	6.5	94	0.1	0.5	0.1	57	0.41	0.103	25
1527480	Soil	2.0	119.5	19.9	107	<0.1	69.6	25.3	384	3.08	43.7	7.0	1.1	17	0.2	4.7	<0.1	86	0.14	0.065	6
1527481	Soil	1.3	69.5	15.7	56	<0.1	29.5	7.8	195	2.61	34.0	4.2	0.4	15	0.2	2.6	<0.1	67	0.10	0.089	8
1527482	Soil	1.4	78.2	107.5	192	0.5	50.7	21.5	623	3.19	37.3	4.3	5.3	89	0.5	2.6	0.2	63	0.36	0.091	24
1527483	Soil	1.6	24.9	21.8	55	<0.1	14.1	8.9	333	2.74	10.0	4.0	2.1	25	<0.1	0.5	0.2	59	0.27	0.127	31

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.

# CERTIFICATE OF ANALYSIS

WHI13000078.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1527979	Soil	48	0.79	74	0.066	1	1.83	0.014	0.15	0.4	0.02	5.5	0.4	<0.05	6	<0.5	<0.2
1527980	Soil	51	0.83	117	0.077	2	1.92	0.017	0.15	0.7	0.04	4.9	0.5	<0.05	6	<0.5	<0.2
1527981	Soil	51	0.78	98	0.078	2	1.75	0.020	0.18	0.5	0.02	4.0	0.6	<0.05	5	<0.5	<0.2
1527982	Soil	38	1.02	178	0.064	1	2.17	0.014	0.19	0.2	0.02	5.6	0.5	<0.05	6	<0.5	<0.2
1527177	Soil	18	0.61	114	0.094	1	1.98	0.015	0.07	0.4	0.03	2.2	0.4	<0.05	9	<0.5	<0.2
1527178	Soil	18	0.63	210	0.108	<1	1.69	0.020	0.17	0.3	0.02	3.0	0.4	<0.05	6	<0.5	<0.2
1527179	Soil	19	0.49	120	0.087	<1	1.12	0.014	0.10	0.4	0.01	2.1	0.2	<0.05	4	<0.5	<0.2
1527180	Soil	16	0.25	66	0.040	<1	0.92	0.011	0.05	0.4	0.06	1.3	0.1	<0.05	4	<0.5	<0.2
1527181	Soil	21	0.44	81	0.078	<1	1.07	0.013	0.08	0.3	0.01	2.3	0.3	<0.05	4	<0.5	<0.2
1527182	Soil	22	0.43	89	0.074	<1	1.07	0.014	0.08	0.3	<0.01	2.9	0.2	<0.05	4	<0.5	<0.2
1527183	Soil	29	0.56	92	0.079	<1	1.40	0.012	0.12	0.3	<0.01	3.7	0.5	<0.05	4	<0.5	<0.2
1527184	Soil	23	0.46	64	0.067	<1	1.03	0.012	0.10	0.5	<0.01	2.7	0.3	<0.05	3	<0.5	<0.2
1527185	Soil	36	0.72	107	0.090	<1	1.74	0.013	0.20	0.4	0.02	5.5	0.8	<0.05	5	<0.5	<0.2
1527186	Soil	41	0.80	105	0.100	1	1.58	0.015	0.27	0.4	0.01	4.9	1.2	<0.05	5	<0.5	<0.2
1527187	Soil	46	0.83	102	0.076	<1	1.60	0.017	0.26	0.2	0.03	4.6	1.6	<0.05	6	<0.5	<0.2
1527188	Soil	45	0.76	96	0.064	<1	1.58	0.016	0.17	0.4	0.04	3.9	1.1	0.05	6	0.6	<0.2
1527189	Soil	39	0.76	89	0.083	<1	1.53	0.017	0.24	0.4	0.03	4.0	1.1	<0.05	5	<0.5	<0.2
1527190	Soil	38	0.75	97	0.077	1	1.64	0.014	0.13	0.4	0.03	4.5	1.1	<0.05	6	<0.5	<0.2
1527191	Soil	29	0.67	86	0.064	<1	1.43	0.015	0.09	0.7	0.01	5.9	0.5	<0.05	5	1.4	<0.2
1527192	Rock Pulp	27	0.53	78	0.101	4	1.07	0.060	0.07	13.2	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
1527193	Soil	29	0.57	72	0.072	<1	1.47	0.015	0.07	0.4	0.02	2.9	0.2	<0.05	4	<0.5	<0.2
1527194	Soil	42	0.67	66	0.061	<1	1.78	0.015	0.07	0.6	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
1527195	Soil	32	0.54	59	0.068	<1	1.71	0.014	0.05	0.9	0.01	3.1	0.2	<0.05	5	<0.5	<0.2
1527477	Soil	71	1.27	88	0.077	2	2.06	0.023	0.21	0.2	0.02	6.0	0.3	0.06	6	0.7	<0.2
1527478	Soil	3	0.04	22	0.002	1	0.38	0.001	0.13	0.2	0.01	1.2	0.6	<0.05	5	2.2	<0.2
1527479	Soil	18	0.80	103	0.035	<1	2.23	0.010	0.08	0.3	0.01	3.7	<0.1	<0.05	8	<0.5	<0.2
1527480	Soil	67	0.98	108	0.092	3	2.00	0.015	0.22	0.3	0.03	4.6	0.2	<0.05	5	0.8	<0.2
1527481	Soil	57	0.53	57	0.035	<1	1.80	0.011	0.10	0.2	0.03	1.8	0.1	0.09	5	<0.5	<0.2
1527482	Soil	34	0.79	113	0.059	1	1.66	0.019	0.07	0.4	0.02	3.7	0.2	<0.05	5	0.7	<0.2
1527483	Soil	24	0.58	117	0.047	2	1.66	0.013	0.10	0.4	0.02	1.9	0.2	0.07	6	0.5	<0.2

# CERTIFICATE OF ANALYSIS

WHI13000078.1

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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			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	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1394428	Soil		0.7	60.8	11.0	52	0.1	15.0	6.3	478	2.11	10.2	3.4	4.3	35	0.1	0.7	0.2	49	0.32	0.068	17
1394429	Soil		0.5	13.6	9.4	44	<0.1	13.2	6.8	357	1.98	8.4	14.2	3.6	17	<0.1	0.6	0.3	43	0.21	0.023	13
1394430	Soil		0.3	54.0	8.4	52	0.1	24.1	8.0	408	2.72	8.6	16.9	3.3	63	<0.1	0.7	3.4	62	0.60	0.070	12
1394431	Soil		0.5	43.3	7.3	39	<0.1	16.0	7.6	265	2.20	9.6	3.3	3.2	69	<0.1	0.5	0.4	56	0.28	0.049	12
1394432	Soil		0.5	42.8	7.3	41	<0.1	14.1	7.6	283	2.08	9.8	2.5	3.8	113	<0.1	0.6	0.3	50	0.42	0.052	13
1394433	Soil		0.6	33.9	8.0	45	<0.1	15.8	7.4	303	2.12	10.2	6.0	5.6	43	0.2	0.6	0.2	49	0.29	0.060	18
1394434	Soil		0.5	34.7	10.3	56	0.1	16.9	7.6	504	2.56	11.7	33.0	6.7	49	0.3	0.8	0.3	62	0.38	0.069	22
1394435	Soil		0.5	81.1	12.8	65	0.3	19.4	9.2	691	2.72	12.5	6.8	5.1	71	0.2	1.0	0.2	58	0.63	0.095	18
1394436	Soil		1.1	81.9	10.8	51	0.2	16.6	7.5	468	2.59	11.2	10.0	5.9	29	0.1	0.8	0.3	59	0.32	0.074	19
1394437	Rock Pulp		2.8	22.3	2.1	32	0.5	18.6	8.1	312	1.78	3.7	2.5	0.8	34	0.2	0.4	0.1	46	0.69	0.044	5
1394438	Soil		0.5	59.9	20.3	80	0.2	33.6	15.9	673	3.12	20.1	2.5	2.1	107	0.2	0.7	0.2	79	0.97	0.097	13
1394439	Soil		1.0	67.7	23.5	80	0.1	26.8	12.6	410	2.32	33.3	0.7	0.6	54	0.4	0.9	0.2	54	0.40	0.141	9
1394440	Soil		2.0	98.1	41.3	61	0.4	33.7	20.6	511	2.53	35.1	2.7	0.8	42	0.6	2.0	0.4	56	0.31	0.091	11
1394441	Soil		1.4	53.6	33.4	145	0.3	29.4	21.5	797	2.85	58.6	1.2	0.2	64	1.4	1.3	0.3	61	0.71	0.211	7
1394442	Soil		1.3	36.9	20.4	57	<0.1	21.9	9.0	337	2.34	19.3	0.7	0.3	16	0.2	1.2	0.2	53	0.16	0.100	11
1394443	Soil		1.4	47.1	17.7	89	<0.1	25.5	13.7	539	2.68	14.7	2.5	0.3	30	0.5	0.8	0.2	66	0.24	0.129	8
1394444	Soil		2.2	89.0	16.5	71	<0.1	30.4	12.8	373	3.06	18.3	2.4	0.7	22	0.2	1.4	0.3	54	0.14	0.098	10
1394445	Soil		3.3	65.7	15.2	82	0.2	23.8	11.0	395	3.74	19.0	2.6	0.2	29	0.5	1.4	0.4	56	0.26	0.260	8
1394446	Soil		2.7	75.6	13.2	56	0.1	43.9	21.3	538	3.50	13.8	7.7	0.8	68	0.3	1.1	0.2	64	0.37	0.068	10
1394447	Soil		1.2	61.7	10.4	111	0.2	34.7	18.8	667	3.18	15.9	3.2	0.6	30	0.4	0.9	0.1	99	0.27	0.106	6
1394448	Soil		1.3	93.8	12.2	101	0.2	51.9	29.4	710	3.18	33.3	3.6	1.0	78	0.4	2.0	0.1	76	0.36	0.110	8
1394449	Soil		2.3	74.0	13.7	133	0.1	42.7	26.4	730	2.97	21.3	1.8	0.7	63	0.6	0.8	0.1	80	0.34	0.088	8
1394450	Soil		0.8	50.9	24.9	90	0.1	34.2	20.1	1014	3.15	15.9	1.7	0.9	79	0.4	0.9	0.1	108	0.48	0.085	5
1274776	Soil		0.6	131.7	35.3	124	0.4	20.8	11.2	1151	3.78	43.8	33.8	3.1	48	0.3	1.5	6.6	61	0.82	0.052	13
1274777	Soil		0.5	47.1	16.5	60	0.1	19.8	9.7	401	2.37	15.1	5.8	4.1	52	<0.1	0.9	0.4	53	0.34	0.047	13
1274778	Soil		0.6	17.7	10.4	42	<0.1	13.6	6.3	319	1.91	9.9	4.6	3.7	22	0.2	0.5	0.3	42	0.24	0.043	16
1274779	Soil		0.3	17.2	9.1	47	<0.1	13.9	5.8	428	2.05	8.2	1.6	4.8	34	0.1	0.9	0.2	45	0.50	0.069	18
1274780	Soil		0.2	48.6	14.7	81	0.3	31.8	15.0	789	4.03	14.6	15.0	4.1	94	0.1	1.3	0.5	72	0.91	0.084	13
1274781	Soil		0.4	26.7	8.6	46	<0.1	16.2	7.2	365	2.11	10.6	2.0	4.7	42	0.1	0.7	0.2	50	0.45	0.077	17
1274782	Soil		0.4	28.7	9.4	47	<0.1	27.5	9.4	371	2.26	13.8	1.7	5.5	63	<0.1	0.9	0.3	55	0.47	0.073	19



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pika Exploration Inc**  
 Box 218  
 Carcross YT Y0B 1B0 Canada

Project: HAX  
 Report Date: July 10, 2013

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Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000078.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1394428	Soil	26	0.43	88	0.060	<1	1.34	0.013	0.08	4.5	0.02	2.9	0.1	<0.05	4	<0.5	<0.2
1394429	Soil	23	0.42	50	0.060	1	1.26	0.011	0.05	0.6	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1394430	Soil	50	0.88	108	0.102	<1	2.24	0.016	0.21	1.2	<0.01	5.7	0.3	<0.05	6	<0.5	0.5
1394431	Soil	30	0.66	99	0.079	<1	2.01	0.017	0.17	0.5	<0.01	3.5	0.3	<0.05	6	<0.5	<0.2
1394432	Soil	31	0.62	75	0.084	<1	1.78	0.024	0.18	0.4	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
1394433	Soil	28	0.51	89	0.070	<1	1.55	0.015	0.12	0.7	<0.01	2.9	0.2	<0.05	4	<0.5	<0.2
1394434	Soil	32	0.53	81	0.079	2	1.65	0.020	0.12	1.6	0.01	4.2	0.2	<0.05	5	<0.5	<0.2
1394435	Soil	33	0.79	118	0.085	2	2.41	0.017	0.19	1.5	0.03	6.0	0.4	<0.05	7	<0.5	<0.2
1394436	Soil	29	0.48	92	0.071	2	1.71	0.013	0.07	6.5	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1394437	Rock Pulp	26	0.51	78	0.098	6	1.04	0.064	0.07	13.0	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
1394438	Soil	59	1.13	109	0.060	4	2.54	0.035	0.21	0.3	0.03	5.4	0.2	<0.05	8	<0.5	<0.2
1394439	Soil	37	0.71	78	0.032	3	3.00	0.012	0.12	0.4	0.04	2.2	0.2	0.12	7	<0.5	<0.2
1394440	Soil	34	0.65	39	0.037	2	1.90	0.013	0.06	0.3	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1394441	Soil	39	0.66	58	0.013	2	1.80	0.010	0.10	0.3	0.06	0.9	0.1	0.13	6	<0.5	<0.2
1394442	Soil	40	0.55	47	0.030	2	2.10	0.009	0.07	0.2	0.06	1.8	0.1	0.13	6	<0.5	<0.2
1394443	Soil	40	0.82	85	0.036	2	2.77	0.011	0.12	0.3	0.06	2.3	0.1	0.15	8	<0.5	<0.2
1394444	Soil	33	0.70	47	0.047	2	3.57	0.011	0.07	0.3	0.06	3.4	0.1	0.09	7	0.8	<0.2
1394445	Soil	32	0.63	38	0.020	3	1.86	0.009	0.18	0.3	0.06	1.4	0.1	0.19	6	0.8	<0.2
1394446	Soil	37	0.98	45	0.039	1	2.70	0.015	0.08	0.2	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
1394447	Soil	66	1.11	93	0.100	1	2.05	0.027	0.19	0.2	0.03	5.8	0.2	0.09	7	<0.5	<0.2
1394448	Soil	48	0.90	135	0.079	3	2.02	0.030	0.15	0.4	0.05	5.0	0.2	0.07	6	0.7	<0.2
1394449	Soil	52	0.88	147	0.069	3	1.90	0.020	0.15	0.3	0.04	4.2	0.2	<0.05	7	0.6	<0.2
1394450	Soil	92	1.55	154	0.093	1	1.88	0.016	0.28	0.2	0.03	6.9	0.6	<0.05	6	<0.5	<0.2
1274776	Soil	35	0.67	63	0.066	<1	1.71	0.014	0.06	1.6	0.03	5.3	0.2	<0.05	6	<0.5	0.4
1274777	Soil	30	0.48	76	0.078	2	1.84	0.019	0.07	0.6	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
1274778	Soil	23	0.44	81	0.054	2	1.25	0.017	0.07	0.6	0.01	2.4	0.1	<0.05	4	<0.5	<0.2
1274779	Soil	27	0.46	74	0.070	<1	1.32	0.017	0.06	0.4	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
1274780	Soil	68	1.13	137	0.080	<1	3.81	0.016	0.40	0.2	0.02	11.5	0.8	<0.05	10	<0.5	0.2
1274781	Soil	31	0.45	59	0.081	<1	1.35	0.021	0.10	0.5	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
1274782	Soil	41	0.62	118	0.095	<1	1.68	0.036	0.12	0.4	0.02	4.2	0.2	<0.05	5	<0.5	<0.2

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.



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# CERTIFICATE OF ANALYSIS

WHI13000078.1

	Method	1DX15																				
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
1274783	Soil	0.6	8.3	6.4	29	<0.1	8.6	3.7	189	1.46	7.9	1.7	2.9	15	0.2	0.3	0.2	31	0.17	0.036	14	
1274792	Soil	0.9	124.2	40.3	100	1.2	16.9	10.0	414	2.71	230.8	2.0	7.1	39	0.3	3.0	1.1	80	0.51	0.198	28	
1274793	Soil	0.9	50.1	31.6	111	0.4	12.0	15.6	581	4.26	13.4	0.9	8.9	67	0.3	0.8	0.2	99	0.84	0.279	39	
1274794	Soil	0.5	17.6	11.0	51	<0.1	12.4	6.8	282	2.18	8.8	1.7	6.1	28	0.2	0.5	0.2	56	0.31	0.104	23	
1274795	Soil	0.6	30.0	15.5	77	0.1	16.9	10.3	356	2.62	7.9	1.2	12.6	56	0.3	0.4	0.1	80	0.52	0.172	28	
1274796	Soil	2.4	26.1	33.4	138	0.2	23.7	18.3	1067	6.06	16.6	<0.5	10.3	33	0.4	1.0	0.4	135	0.44	0.172	33	
1274797	Soil	1.1	74.1	36.0	170	0.8	24.1	21.4	3059	6.58	64.8	<0.5	15.5	136	0.7	2.1	0.9	131	1.23	0.427	66	
1274798	Soil	0.8	19.3	12.1	53	<0.1	14.5	8.7	346	2.53	12.5	0.5	10.4	30	0.1	0.4	0.3	70	0.45	0.155	31	
1274799	Soil	3.0	112.2	1521	440	29.9	2.5	5.2	744	4.50	3263	14.8	6.1	45	1.1	13.0	128.9	31	0.24	0.131	38	
1274800	Soil	2.6	29.5	26.8	66	0.4	7.8	5.4	296	2.83	28.1	1.2	3.8	145	0.2	0.7	0.7	45	0.26	0.082	17	



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# CERTIFICATE OF ANALYSIS

WHI1300078.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1274783	Soil	16	0.31	45	0.042	2	0.87	0.012	0.05	0.4	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1274792	Soil	28	0.68	115	0.082	2	1.56	0.020	0.17	0.3	0.04	2.9	0.3	<0.05	5	<0.5	<0.2
1274793	Soil	18	1.19	217	0.115	<1	3.22	0.015	0.38	0.2	0.03	2.9	1.0	<0.05	9	<0.5	<0.2
1274794	Soil	22	0.49	104	0.071	2	1.20	0.015	0.10	0.3	0.03	2.1	0.2	<0.05	4	<0.5	<0.2
1274795	Soil	27	0.72	145	0.105	1	1.60	0.017	0.23	0.3	0.01	3.0	0.4	<0.05	5	0.6	<0.2
1274796	Soil	55	1.58	167	0.207	1	3.07	0.015	0.62	0.2	0.02	7.6	5.4	<0.05	11	<0.5	<0.2
1274797	Soil	30	1.72	167	0.146	2	3.41	0.015	0.39	0.2	0.03	7.2	1.9	<0.05	10	<0.5	<0.2
1274798	Soil	25	0.67	107	0.117	1	1.31	0.016	0.16	0.3	0.02	2.2	0.4	<0.05	5	<0.5	<0.2
1274799	Soil	6	0.40	85	0.011	<1	1.58	0.048	0.11	0.2	0.05	2.0	0.4	0.31	8	0.6	<0.2
1274800	Soil	15	0.50	199	0.089	1	1.80	0.021	0.11	0.3	0.06	2.3	0.3	0.08	8	<0.5	<0.2

## QUALITY CONTROL REPORT

WHI13000078.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1394430	Soil	0.3	54.0	8.4	52	0.1	24.1	8.0	408	2.72	8.6	16.9	3.3	63	<0.1	0.7	3.4	62	0.60	0.070	12
REP 1394430	QC	0.3	55.7	8.3	51	0.1	24.2	8.4	418	2.75	8.1	10.7	3.4	61	<0.1	0.6	3.4	62	0.57	0.070	13
1274792	Soil	0.9	124.2	40.3	100	1.2	16.9	10.0	414	2.71	230.8	2.0	7.1	39	0.3	3.0	1.1	80	0.51	0.198	28
REP 1274792	QC	0.9	128.7	39.5	100	1.1	17.6	10.4	413	2.77	229.0	4.1	7.0	39	0.2	3.3	1.1	83	0.54	0.203	29
Reference Materials																					
STD DS11	Standard	13.8	148.7	139.0	322	1.8	76.1	12.8	981	3.08	40.7	79.7	7.4	65	2.1	8.5	10.8	49	0.99	0.066	18
STD DS11	Standard	14.5	146.8	139.6	330	1.9	77.2	13.1	1029	3.08	41.0	80.9	7.5	72	2.3	9.4	11.6	48	0.98	0.063	22
STD DS9	Standard	13.7	111.6	131.9	315	1.9	40.1	7.3	596	2.37	25.0	112.9	6.6	78	2.6	6.0	6.3	44	0.76	0.081	16
STD DS9	Standard	14.2	112.3	131.3	323	1.9	42.2	8.3	619	2.43	26.3	128.9	6.7	85	2.4	6.2	6.9	43	0.78	0.088	17
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



## QUALITY CONTROL REPORT

WHI13000078.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		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	0.2
Pulp Duplicates																	
1394430	Soil	50	0.88	108	0.102	<1	2.24	0.016	0.21	1.2	<0.01	5.7	0.3	<0.05	6	<0.5	0.5
REP 1394430	QC	52	0.88	111	0.097	<1	2.21	0.016	0.21	1.5	<0.01	5.4	0.4	<0.05	6	<0.5	0.4
1274792	Soil	28	0.68	115	0.082	2	1.56	0.020	0.17	0.3	0.04	2.9	0.3	<0.05	5	<0.5	<0.2
REP 1274792	QC	29	0.70	115	0.087	2	1.63	0.021	0.18	0.3	0.04	3.2	0.3	<0.05	5	0.6	<0.2
Reference Materials																	
STD DS11	Standard	57	0.83	354	0.089	7	1.09	0.065	0.37	3.0	0.32	2.8	4.7	0.17	5	1.6	4.9
STD DS11	Standard	58	0.87	378	0.091	8	1.14	0.067	0.38	3.2	0.29	3.0	4.7	0.19	5	1.6	4.9
STD DS9	Standard	125	0.68	308	0.122	2	0.99	0.087	0.39	3.1	0.25	2.6	5.3	0.13	5	4.9	4.5
STD DS9	Standard	123	0.69	322	0.122	3	1.02	0.095	0.41	3.3	0.21	3.0	5.5	0.17	5	5.2	5.4
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<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	<0.2
BLK	Blank	<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	<0.2