



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver BC V6E 3V6 CANADA

Submitted By: Gerry Carlson
Receiving Lab: Canada-Whitehorse
Received: October 05, 2015
Report Date: October 22, 2015
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CERTIFICATE OF ANALYSIS

WHI15000215.1

CLIENT JOB INFORMATION

Project: MPA
Shipment ID: MPA2015-10-01
P.O. Number
Number of Samples: 138

SAMPLE DISPOSAL

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

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

Invoice To: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver BC V6E 3V6
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	133	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
MA200	138	4 Acid digestion ICP-MS analysis	0.25	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. Bureau Veritas 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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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method Analyte Unit MDL	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
1428847	Rock	1.25	0.232	5.1	95.4	13.9	85	0.1	5.7	6.6	656	3.04	5	1.6	7.9	75	0.3	2.0	0.3	60	0.16
1428848	Rock	2.60	0.315	3.5	58.3	10.4	139	<0.1	3.4	9.6	959	4.48	4	1.5	6.0	107	0.2	2.5	0.4	88	1.09
1428849	Rock	0.99	0.809	6.1	32.9	9.6	114	0.3	1.8	6.1	986	3.01	4	1.6	5.0	91	0.4	3.8	0.4	78	0.94
1428850	Rock	1.75	2.349	344.2	58.9	243.4	146	1.7	5.3	7.1	717	3.67	10	2.0	4.9	124	0.6	10.1	2.1	84	0.93
1428851	Rock	2.26	0.158	26.8	49.3	14.5	102	0.1	3.0	5.2	1022	6.25	4	4.3	8.9	82	0.2	1.9	0.3	59	1.78
1428852	Rock	2.25	0.134	13.1	6.2	9.9	46	<0.1	1.1	1.9	693	2.31	2	1.2	10.0	115	0.2	0.9	0.2	30	1.46
1428853	Rock	1.55	0.035	8.9	15.2	8.0	71	<0.1	1.9	4.6	587	2.38	1	1.0	7.5	96	<0.1	1.2	0.2	48	0.32
1428854	Rock	2.31	0.278	6.7	156.7	11.5	43	0.3	1.9	3.5	232	1.78	3	1.2	9.8	98	<0.1	1.9	0.2	29	0.15
1428855	Rock	1.89	0.274	7.4	163.9	11.6	46	0.4	2.2	4.0	267	2.01	3	1.2	10.0	101	<0.1	2.2	0.2	31	0.16
1428856	Rock	1.51	0.159	3.1	14.8	6.6	63	0.1	3.1	2.8	491	1.67	<1	0.9	10.6	93	0.2	0.6	<0.1	30	0.18
1428857	Rock	0.91	0.009	1.2	373.0	7.4	206	0.3	7.8	11.0	1194	6.17	1	1.3	9.0	48	0.6	1.0	0.6	91	0.94
1428858	Rock	1.52	0.042	2.0	27.7	9.1	105	<0.1	3.4	3.8	529	2.48	<1	1.2	10.5	107	0.3	0.7	<0.1	40	0.71
1428859	Rock	1.80	0.104	2.8	44.3	10.1	47	0.1	2.6	2.3	217	1.84	2	0.9	12.2	82	0.2	1.4	<0.1	32	0.21
1428860	Rock	1.60	0.029	2.8	13.9	10.5	34	<0.1	1.8	1.6	143	1.33	<1	0.7	11.8	86	<0.1	0.5	<0.1	20	0.16
1428861	Rock	1.44	0.066	2.5	35.3	11.3	41	<0.1	1.6	1.3	235	1.38	1	0.7	11.8	89	<0.1	0.7	<0.1	20	0.16
1428862	Rock	1.50	0.149	4.7	79.3	12.2	67	0.2	3.0	3.2	364	2.08	<1	0.8	12.2	89	0.1	1.1	<0.1	31	0.30
1428863	Rock	3.54	0.081	4.1	100.3	14.0	67	0.2	2.7	2.4	286	1.68	2	0.7	11.6	91	<0.1	1.5	<0.1	27	0.24
1428864	Rock	2.07	0.082	4.7	58.4	11.5	61	0.1	2.0	2.3	258	1.43	2	0.7	8.9	79	<0.1	1.2	<0.1	26	0.22
1428865	Rock Pulp	0.07	1.400	8.5	46.5	8.9	69	0.4	42.8	12.4	864	4.42	8	0.6	1.7	281	<0.1	2.3	0.1	135	2.60
1428866	Rock	1.88	0.176	5.3	41.7	11.5	56	0.1	2.6	1.6	209	1.36	2	0.6	9.1	84	0.2	1.0	<0.1	21	0.17
1428867	Rock	2.08	1.495	13.5	35.5	14.7	35	0.3	2.9	1.4	256	1.21	2	0.5	5.8	75	0.2	1.7	0.2	13	0.12
1428868	Rock	2.58	1.754	10.8	36.0	14.0	34	0.3	2.2	1.4	245	1.10	3	0.5	5.6	78	0.1	1.6	0.2	13	0.11
1428869	Rock	2.78	3.450	15.2	46.8	13.3	39	0.5	3.1	2.7	291	1.79	5	0.9	5.3	80	0.2	1.9	0.2	26	0.12
1428870	Rock	0.77	3.674	14.6	45.2	12.4	37	0.8	10.9	2.7	270	1.63	4	0.9	5.2	75	<0.1	1.5	0.2	24	0.12
1428871	Rock	1.46	1.574	11.9	93.4	13.0	63	0.6	2.3	3.8	291	2.24	6	1.1	7.1	95	0.2	2.4	0.2	38	0.20
1428872	Rock	1.64	1.708	13.0	92.8	14.3	61	0.5	2.3	3.6	287	2.17	7	1.1	7.2	93	0.2	2.4	0.2	38	0.19
1428873	Rock	0.98	0.846	5.5	54.0	11.2	48	0.3	1.5	2.5	264	1.58	2	0.8	7.8	107	0.2	1.1	<0.1	28	0.18
1428874	Rock	2.57	0.448	4.0	32.9	11.9	65	0.1	1.3	1.9	298	1.52	2	0.6	7.2	106	<0.1	0.9	<0.1	23	0.22
1428875	Rock	1.21	0.187	4.9	18.0	10.2	61	0.1	1.2	1.5	294	1.33	<1	0.7	6.2	122	<0.1	0.7	<0.1	23	0.56
1428876	Rock	2.35	0.085	4.7	39.7	10.4	92	0.2	0.9	2.8	418	1.97	<1	0.9	6.8	136	0.3	0.5	0.2	41	1.00



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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	1	1	0.1	0.1
1428847	Rock	0.043	22.3	9	0.15	832	0.206	6.24	1.935	4.22	7.8	18.1	47	3.5	7.4	8.4	0.6	<1	7	4.6	<0.1	
1428848	Rock	0.078	21.6	7	0.20	1074	0.301	7.35	1.572	4.36	12.2	14.0	44	3.5	10.0	8.7	0.6	2	14	7.2	<0.1	
1428849	Rock	0.057	15.6	4	0.13	1049	0.228	6.61	1.328	5.04	16.8	13.2	32	3.9	7.4	7.7	0.6	2	9	4.8	<0.1	
1428850	Rock	0.061	17.1	7	0.22	975	0.263	6.07	0.715	3.64	12.3	16.3	37	3.7	9.0	7.5	0.5	2	11	7.8	0.1	
1428851	Rock	0.027	20.8	6	0.40	408	0.150	7.35	1.579	3.24	2.5	22.4	46	27.7	20.3	9.6	1.0	2	8	7.9	<0.1	
1428852	Rock	0.021	19.3	3	0.19	573	0.098	6.67	2.163	2.80	2.8	22.6	39	5.8	11.2	8.0	0.7	1	5	4.6	<0.1	
1428853	Rock	0.037	18.3	6	0.21	780	0.166	6.25	2.409	2.76	3.9	18.9	40	2.3	9.7	9.0	0.7	1	7	7.5	<0.1	
1428854	Rock	0.012	22.7	5	0.09	920	0.083	6.22	2.839	3.39	4.0	15.5	48	2.2	6.4	7.1	0.6	2	3	3.1	<0.1	
1428855	Rock	0.015	23.0	5	0.09	877	0.086	6.63	2.992	3.48	4.6	15.5	47	2.1	6.1	7.4	0.7	2	4	3.7	<0.1	
1428856	Rock	0.022	27.4	6	0.14	971	0.117	6.23	2.046	3.40	4.1	13.4	55	1.1	9.4	6.7	0.5	<1	5	4.8	<0.1	
1428857	Rock	0.050	26.8	17	0.83	901	0.264	7.17	0.855	3.48	3.2	17.4	55	6.0	19.4	11.7	0.7	2	13	12.9	0.2	
1428858	Rock	0.026	27.3	7	0.29	722	0.127	6.55	2.386	2.63	3.9	20.4	55	2.1	10.3	8.7	1.0	2	6	5.0	<0.1	
1428859	Rock	0.012	29.1	5	0.09	974	0.070	5.65	2.512	3.45	4.9	22.3	57	1.4	5.8	6.2	0.5	2	4	2.8	<0.1	
1428860	Rock	0.010	29.4	5	0.08	1036	0.056	5.65	2.178	3.62	3.0	24.9	58	0.8	4.9	5.9	0.4	<1	3	3.2	<0.1	
1428861	Rock	0.010	30.3	4	0.08	1122	0.054	5.67	1.693	3.80	3.8	26.7	60	0.8	4.5	5.1	0.3	1	3	5.1	<0.1	
1428862	Rock	0.016	29.3	8	0.16	1122	0.081	5.70	1.919	3.63	4.9	25.1	58	1.7	6.8	5.6	0.4	<1	4	5.4	<0.1	
1428863	Rock	0.012	28.8	7	0.12	1208	0.070	5.54	1.938	3.71	4.1	24.1	59	1.1	5.6	4.9	0.3	<1	4	4.3	<0.1	
1428864	Rock	0.008	24.0	7	0.12	984	0.070	5.35	1.764	3.40	3.5	22.2	47	1.7	4.9	4.7	0.3	2	3	4.3	<0.1	
1428865	Rock Pulp	0.063	7.7	53	1.38	501	0.361	6.23	2.428	0.93	0.9	27.5	18	2.1	14.3	4.3	0.3	2	14	17.7	<0.1	
1428866	Rock	0.008	23.9	6	0.13	883	0.058	5.59	1.657	3.48	4.9	24.5	47	1.1	4.2	4.1	0.3	<1	3	3.8	<0.1	
1428867	Rock	0.007	14.6	5	0.08	648	0.040	3.53	0.905	2.21	3.5	16.6	29	0.9	2.9	3.0	0.2	<1	2	6.8	<0.1	
1428868	Rock	0.007	14.4	5	0.08	637	0.038	3.46	0.874	2.21	3.6	15.4	28	1.0	3.0	2.7	0.2	<1	2	5.9	<0.1	
1428869	Rock	0.016	16.1	6	0.10	667	0.090	4.56	0.736	3.94	6.1	12.4	32	1.8	4.8	4.4	0.3	<1	4	6.2	<0.1	
1428870	Rock	0.014	15.7	12	0.14	646	0.083	4.32	0.728	3.86	5.2	11.1	30	1.8	4.6	4.2	0.3	<1	3	5.9	<0.1	
1428871	Rock	0.023	19.6	5	0.16	844	0.127	5.66	1.320	3.69	6.2	14.0	40	2.6	7.3	6.5	0.4	1	5	6.8	<0.1	
1428872	Rock	0.025	20.4	5	0.16	823	0.128	5.61	1.344	3.69	6.2	13.7	41	2.7	6.7	6.5	0.5	1	5	6.6	<0.1	
1428873	Rock	0.021	22.3	4	0.14	929	0.105	5.62	2.054	3.26	3.9	15.9	42	2.5	6.0	5.9	0.4	<1	4	4.2	<0.1	
1428874	Rock	0.013	19.8	5	0.14	890	0.090	5.91	2.425	2.97	2.9	13.9	38	2.1	5.5	5.5	0.3	1	4	6.1	<0.1	
1428875	Rock	0.013	17.1	4	0.13	717	0.080	5.97	2.752	2.36	2.5	12.2	33	1.7	6.9	5.0	0.4	1	3	4.8	<0.1	
1428876	Rock	0.020	18.1	4	0.32	1184	0.129	6.45	2.725	2.64	2.6	14.9	37	2.0	9.5	5.5	0.5	2	5	6.9	<0.1	



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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1428847	Rock	89.0	0.4	0.08	<0.005	<1	<0.5	0.7
1428848	Rock	110.5	0.4	0.09	<0.005	<1	<0.5	0.9
1428849	Rock	100.0	0.5	0.14	<0.005	2	<0.5	0.8
1428850	Rock	92.4	0.4	<0.05	0.064	<1	2.9	1.7
1428851	Rock	102.6	0.9	0.34	<0.005	<1	<0.5	0.9
1428852	Rock	71.1	0.7	<0.05	<0.005	<1	<0.5	0.5
1428853	Rock	78.8	0.4	<0.05	<0.005	<1	<0.5	0.6
1428854	Rock	70.9	0.5	0.08	<0.005	<1	<0.5	<0.5
1428855	Rock	72.4	0.5	0.07	<0.005	<1	<0.5	0.5
1428856	Rock	78.2	0.4	<0.05	<0.005	<1	<0.5	0.5
1428857	Rock	154.5	0.4	0.10	<0.005	<1	<0.5	1.2
1428858	Rock	80.5	0.6	<0.05	<0.005	<1	<0.5	0.5
1428859	Rock	73.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
1428860	Rock	82.0	0.8	<0.05	<0.005	<1	<0.5	0.5
1428861	Rock	78.8	0.9	<0.05	<0.005	<1	<0.5	0.6
1428862	Rock	84.2	0.8	<0.05	<0.005	<1	<0.5	0.6
1428863	Rock	82.8	0.7	<0.05	<0.005	<1	<0.5	0.6
1428864	Rock	76.2	0.7	<0.05	<0.005	<1	<0.5	0.6
1428865	Rock Pulp	17.1	1.0	0.08	<0.005	<1	<0.5	<0.5
1428866	Rock	75.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428867	Rock	46.8	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428868	Rock	46.1	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428869	Rock	78.5	0.3	<0.05	<0.005	<1	0.7	0.7
1428870	Rock	75.2	0.3	<0.05	<0.005	<1	<0.5	0.7
1428871	Rock	89.3	0.5	<0.05	<0.005	<1	<0.5	0.7
1428872	Rock	88.1	0.4	0.13	<0.005	<1	<0.5	0.6
1428873	Rock	78.1	0.6	0.12	<0.005	<1	<0.5	0.6
1428874	Rock	75.2	0.3	0.10	<0.005	<1	<0.5	0.5
1428875	Rock	63.2	0.4	0.05	<0.005	<1	<0.5	<0.5
1428876	Rock	84.6	0.4	0.08	<0.005	<1	<0.5	0.6



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1428877	Rock	1.09	0.120	7.2	25.6	15.7	90	0.2	1.1	2.7	477	1.93	1	0.9	7.4	187	0.3	0.4	0.1	34	1.18
1428878	Rock	2.15	0.058	4.6	24.0	15.1	73	0.1	1.2	2.6	434	1.60	<1	1.0	6.1	190	0.3	0.2	<0.1	29	1.10
1428879	Rock	1.82	0.055	7.5	18.9	16.1	51	0.1	1.1	2.4	400	1.55	<1	1.5	7.0	219	<0.1	0.2	<0.1	26	1.30
1428880	Rock	1.88	0.033	6.0	16.4	13.8	51	<0.1	0.9	2.3	298	1.40	2	1.4	7.1	183	0.2	0.3	0.3	28	1.16
1428881	Rock	1.44	0.048	5.4	16.5	13.4	46	<0.1	1.1	2.3	297	1.52	2	1.1	6.5	159	0.3	0.3	0.3	25	1.08
1428882	Rock	0.66	<0.005	1.4	8.1	8.3	25	<0.1	5.8	3.3	228	1.55	4	1.0	8.5	132	0.1	0.5	0.1	35	0.69
1428883	Rock	2.28	<0.005	1.7	7.0	6.0	22	<0.1	6.9	3.6	305	2.76	3	1.7	9.7	95	0.1	0.7	0.2	33	0.48
1428884	Rock	2.90	0.069	5.4	7.1	9.0	37	<0.1	6.2	2.7	495	3.71	3	3.4	12.8	76	0.1	1.1	0.5	35	0.22
1428885	Rock Pulp	0.06	<0.005	2.7	28.0	5.1	61	0.2	32.8	15.1	750	3.69	6	0.7	1.7	289	0.1	0.8	<0.1	134	2.80
1428886	Rock	2.04	0.920	24.8	29.0	15.5	27	0.2	3.7	2.1	244	1.55	4	1.4	6.7	86	<0.1	4.0	0.3	21	0.09
1428887	Rock	2.59	0.144	10.0	13.3	11.0	31	<0.1	2.0	2.1	272	1.62	4	0.7	8.9	111	<0.1	3.3	<0.1	23	0.14
1428888	Rock	3.02	0.962	50.8	22.5	20.6	40	0.3	3.6	4.2	518	2.28	4	1.5	7.4	86	<0.1	2.5	0.6	32	0.18
1428889	Rock	2.20	0.260	17.3	47.3	15.2	78	0.2	4.0	8.0	633	3.24	3	1.5	6.1	84	0.3	1.9	0.3	70	0.48
1428890	Rock	2.93	0.677	30.8	69.5	18.5	79	0.3	5.7	8.0	889	3.39	4	1.8	6.2	72	0.3	2.0	0.5	57	0.63
1428891	Rock	2.28	0.253	28.6	38.9	11.1	177	0.1	2.9	7.5	885	3.42	4	1.5	6.6	131	0.8	1.5	0.6	61	1.86
1428892	Rock	2.11	0.104	8.0	43.1	7.8	186	<0.1	2.7	6.2	744	2.82	4	1.7	8.1	127	0.7	0.8	0.4	59	1.47
1428893	Rock	2.32	0.104	6.4	27.1	6.6	209	<0.1	3.1	6.3	754	2.81	4	1.6	7.5	130	0.4	0.6	0.4	63	1.90
1428894	Rock	0.56	0.105	8.5	28.0	7.1	142	<0.1	2.4	6.0	690	2.85	4	2.0	8.2	122	0.3	0.8	0.3	59	1.74
1428895	Rock	0.59	0.097	7.5	25.0	6.9	153	<0.1	2.3	5.6	662	2.73	4	2.1	8.3	131	0.3	0.7	0.3	57	1.72
1428896	Rock	1.32	0.033	2.9	11.3	5.4	77	<0.1	2.9	5.5	607	2.61	3	1.9	8.3	105	0.1	0.6	0.2	61	1.60
1428897	Rock	2.21	0.030	3.2	28.8	7.3	73	<0.1	3.6	5.1	478	2.42	2	1.5	9.9	110	0.1	1.2	0.2	56	0.92
1428898	Rock	2.61	0.035	4.9	89.9	8.0	49	<0.1	2.6	3.1	298	1.78	3	1.2	9.6	98	0.1	1.7	0.2	27	0.38
1428899	Rock	2.60	0.020	3.8	50.4	7.8	38	<0.1	1.6	2.0	198	1.49	2	1.0	9.0	88	<0.1	1.4	<0.1	23	0.26
1428900	Rock	2.23	0.873	22.9	105.3	10.4	31	0.3	2.2	2.5	237	1.74	6	1.1	10.1	58	<0.1	1.9	0.3	31	0.11
1428901	Rock	2.48	1.087	27.0	95.6	16.1	49	0.3	3.7	4.0	365	2.06	6	1.2	8.3	72	<0.1	2.1	0.6	28	0.36
1428902	Rock	2.49	0.376	10.2	36.7	13.5	45	0.1	2.0	2.8	300	1.56	3	1.0	8.7	106	0.2	1.2	0.2	27	0.99
1428903	Rock	2.11	0.177	27.9	24.3	11.4	37	<0.1	1.4	2.1	217	1.35	2	1.1	8.8	81	<0.1	0.7	0.1	23	0.48
1428904	Rock	2.07	0.167	14.7	38.6	13.7	36	0.1	1.7	1.8	179	1.12	2	0.9	8.7	98	0.1	0.7	<0.1	19	0.58
1428905	Rock Pulp	0.11	1.490	8.7	51.6	8.2	67	0.2	39.6	13.5	777	4.45	8	0.7	1.8	262	0.2	2.2	0.1	136	2.59
1428906	Rock	1.95	0.175	8.4	25.4	14.0	40	<0.1	1.2	2.1	270	1.45	1	0.9	7.7	138	0.1	0.6	<0.1	23	0.90



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Project: MPA

Report Date: October 22, 2015

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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1
1428877	Rock	0.018	17.8	4	0.29	1134	0.121	6.78	3.045	2.50	3.3	14.0	36	2.2	11.1	6.1	0.5	1	4	7.4	<0.1
1428878	Rock	0.016	15.4	3	0.26	983	0.115	6.13	3.104	2.20	2.1	15.0	31	2.0	10.6	7.0	0.5	2	4	7.0	<0.1
1428879	Rock	0.012	18.7	3	0.23	924	0.104	6.56	3.155	2.10	2.7	13.7	37	1.6	12.1	6.5	0.5	2	4	5.7	<0.1
1428880	Rock	0.019	19.2	4	0.22	907	0.103	6.43	3.013	2.45	1.6	10.2	35	1.6	11.0	5.5	0.5	1	3	5.7	<0.1
1428881	Rock	0.016	16.5	6	0.18	782	0.090	5.85	2.795	2.05	1.9	11.1	31	1.9	9.6	5.1	0.4	1	3	5.0	<0.1
1428882	Rock	0.022	18.9	13	0.17	700	0.119	6.26	3.258	1.61	1.2	20.0	39	1.2	7.6	6.5	0.4	1	4	6.3	<0.1
1428883	Rock	0.021	22.9	14	0.18	395	0.113	6.02	2.574	1.98	2.6	22.2	41	8.9	12.2	6.2	0.5	1	5	6.3	<0.1
1428884	Rock	0.017	27.4	9	0.19	328	0.055	6.72	2.269	2.61	4.2	21.5	51	23.0	22.9	6.0	1.0	2	4	5.8	<0.1
1428885	Rock Pulp	0.068	7.9	57	1.42	480	0.373	6.26	2.499	0.84	19.7	25.9	18	0.8	14.5	3.9	0.2	<1	15	15.8	<0.1
1428886	Rock	0.014	21.3	7	0.07	509	0.064	4.97	0.965	4.02	5.7	14.5	38	2.5	5.7	5.0	0.4	<1	3	8.1	<0.1
1428887	Rock	0.016	25.6	7	0.07	627	0.072	5.55	1.289	3.54	5.2	14.5	48	1.1	5.6	5.6	0.4	<1	3	6.4	<0.1
1428888	Rock	0.028	21.3	7	0.09	804	0.110	5.39	0.899	3.87	8.0	10.8	39	1.7	6.4	5.6	0.4	1	4	7.9	<0.1
1428889	Rock	0.058	21.3	8	0.17	560	0.245	5.99	0.861	3.98	10.9	12.8	40	3.3	8.8	7.5	0.5	2	10	9.2	<0.1
1428890	Rock	0.060	22.2	11	0.11	514	0.193	5.82	0.870	4.28	10.1	13.5	42	3.3	8.6	5.8	0.4	1	10	7.4	<0.1
1428891	Rock	0.074	23.1	8	0.45	755	0.241	7.08	1.720	3.32	8.1	16.4	44	2.8	11.7	7.9	0.6	2	10	5.4	<0.1
1428892	Rock	0.054	21.9	9	0.28	870	0.209	6.62	1.833	3.06	5.9	16.2	43	2.4	11.7	9.0	0.7	2	8	4.8	<0.1
1428893	Rock	0.050	18.3	10	0.41	1056	0.224	6.24	1.914	3.38	5.4	16.4	36	2.2	11.5	8.0	0.5	2	8	5.9	<0.1
1428894	Rock	0.048	18.5	9	0.34	806	0.207	6.53	1.980	3.15	4.0	16.8	38	2.2	12.6	8.0	0.5	1	8	5.6	<0.1
1428895	Rock	0.050	21.0	8	0.37	888	0.211	6.56	2.262	3.18	3.6	17.5	43	2.1	13.0	8.2	0.5	2	8	5.7	<0.1
1428896	Rock	0.041	20.5	8	0.45	764	0.201	6.61	2.318	2.93	4.3	13.7	41	1.8	11.9	8.4	0.6	2	8	5.3	<0.1
1428897	Rock	0.036	29.0	8	0.29	876	0.171	6.68	2.316	3.28	4.0	13.0	51	1.6	11.1	7.1	0.5	2	8	4.4	<0.1
1428898	Rock	0.021	24.6	7	0.16	839	0.110	5.70	2.291	3.16	2.9	12.8	46	1.3	9.4	7.2	0.5	2	4	5.6	<0.1
1428899	Rock	0.018	23.9	6	0.11	885	0.085	5.61	2.503	3.37	3.2	10.3	43	1.1	7.5	6.1	0.5	1	4	4.8	<0.1
1428900	Rock	0.009	28.2	5	0.04	638	0.053	5.37	0.557	5.94	4.9	16.1	52	4.3	5.8	4.9	0.5	<1	3	3.1	0.2
1428901	Rock	0.018	22.3	10	0.11	661	0.087	4.38	1.011	4.03	6.2	13.9	42	2.3	6.9	5.2	0.5	<1	4	5.2	0.2
1428902	Rock	0.023	21.4	6	0.13	842	0.100	5.50	1.663	3.55	3.6	19.7	41	1.5	6.6	5.4	0.4	1	4	5.1	<0.1
1428903	Rock	0.019	24.9	5	0.12	745	0.085	5.16	1.772	3.23	2.1	19.6	46	1.1	6.3	5.1	0.3	<1	3	4.1	<0.1
1428904	Rock	0.015	23.3	<1	0.09	775	0.070	5.14	1.874	2.91	1.7	19.3	42	1.0	6.5	4.2	0.2	1	3	3.5	<0.1
1428905	Rock Pulp	0.067	9.0	59	1.36	479	0.356	6.29	2.377	0.94	1.0	26.4	19	2.0	15.0	4.2	0.3	<1	15	14.2	<0.1
1428906	Rock	0.016	19.7	6	0.13	818	0.090	5.85	2.595	2.68	2.1	14.9	37	1.5	8.3	5.3	0.3	<1	3	4.2	<0.1



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Project: MPA

Report Date: October 22, 2015

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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1428877	Rock	79.8	0.4	<0.05	<0.005	<1	<0.5	0.6
1428878	Rock	68.0	0.4	<0.05	<0.005	<1	<0.5	0.5
1428879	Rock	66.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428880	Rock	72.7	0.4	0.07	<0.005	<1	<0.5	<0.5
1428881	Rock	62.3	0.3	0.06	<0.005	<1	<0.5	<0.5
1428882	Rock	52.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
1428883	Rock	64.6	0.8	0.22	<0.005	<1	<0.5	<0.5
1428884	Rock	83.9	0.9	0.53	<0.005	<1	<0.5	0.6
1428885	Rock Pulp	17.5	0.9	0.06	<0.005	<1	<0.5	<0.5
1428886	Rock	74.4	0.5	0.06	<0.005	<1	<0.5	0.7
1428887	Rock	75.2	0.5	<0.05	<0.005	<1	<0.5	0.5
1428888	Rock	80.2	0.3	<0.05	0.005	<1	0.7	0.7
1428889	Rock	88.3	0.4	0.10	<0.005	<1	<0.5	0.6
1428890	Rock	79.6	0.4	0.12	<0.005	<1	0.5	0.7
1428891	Rock	91.6	0.5	0.18	<0.005	<1	<0.5	0.7
1428892	Rock	87.4	0.4	0.16	<0.005	<1	<0.5	0.6
1428893	Rock	87.4	0.5	0.10	<0.005	<1	<0.5	0.6
1428894	Rock	88.2	0.5	0.07	<0.005	<1	<0.5	0.6
1428895	Rock	90.8	0.5	0.08	<0.005	<1	<0.5	0.7
1428896	Rock	89.3	0.4	0.07	<0.005	<1	<0.5	0.6
1428897	Rock	97.2	0.4	<0.05	<0.005	<1	<0.5	0.6
1428898	Rock	77.8	0.5	0.06	<0.005	<1	<0.5	<0.5
1428899	Rock	73.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
1428900	Rock	110.6	0.5	0.11	<0.005	<1	<0.5	0.8
1428901	Rock	77.7	0.4	<0.05	<0.005	<1	<0.5	0.6
1428902	Rock	76.8	0.6	<0.05	<0.005	<1	<0.5	0.5
1428903	Rock	77.9	0.6	<0.05	0.006	<1	<0.5	<0.5
1428904	Rock	71.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
1428905	Rock Pulp	20.8	0.9	<0.05	<0.005	<1	0.6	<0.5
1428906	Rock	68.0	0.4	<0.05	<0.005	<1	<0.5	<0.5



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Report Date: October 22, 2015

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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
1428907	Rock	1.79	0.112	5.5	19.0	14.8	39	<0.1	1.1	2.4	312	1.44	<1	1.0	7.0	156	0.1	0.4	<0.1	24	1.07
1428908	Rock	2.16	0.083	5.4	19.2	12.8	37	<0.1	1.3	2.6	322	1.66	2	1.1	7.0	209	0.1	0.4	<0.1	25	1.16
1428909	Rock	2.06	0.124	5.3	22.8	13.9	38	<0.1	1.1	2.2	309	1.49	2	0.9	6.6	171	0.1	0.4	<0.1	23	1.06
1428910	Rock	2.02	0.119	3.9	27.1	11.4	34	<0.1	0.9	2.1	286	1.54	2	0.9	6.5	160	0.2	0.3	<0.1	24	1.10
1428911	Rock	1.62	0.090	6.0	38.3	11.9	33	<0.1	1.0	2.1	278	1.45	1	1.1	7.1	149	0.1	0.2	0.1	23	1.08
1428912	Rock	1.36	0.048	5.1	127.3	14.2	35	0.2	0.9	2.0	279	1.47	2	1.1	7.1	115	0.1	0.3	0.2	20	0.87
1428913	Rock	1.21	0.049	4.6	157.9	14.7	34	0.2	0.7	1.8	182	1.15	1	1.0	7.7	105	0.1	0.2	0.2	17	0.69
1428914	Rock	2.52	1.307	28.7	87.4	16.4	36	0.4	2.9	3.1	262	1.73	5	1.0	7.5	60	<0.1	2.0	0.6	23	0.23
1428915	Rock	2.06	0.299	9.0	30.3	13.4	41	<0.1	1.5	2.6	262	1.40	2	1.2	8.0	102	0.1	1.1	0.3	26	0.98
1428916	Rock	0.86	0.023	2.8	42.9	14.4	79	<0.1	6.1	3.8	336	2.01	3	0.9	11.6	131	0.2	1.1	0.2	32	0.27
1428917	Rock	2.06	0.020	2.3	74.4	13.3	89	0.1	3.8	2.4	130	1.66	3	0.9	11.9	117	0.3	0.8	0.2	20	0.18
1428918	Rock	1.52	<0.005	0.8	22.2	11.8	76	<0.1	1.4	1.8	114	1.57	1	0.8	11.2	97	0.3	0.5	<0.1	15	0.18
1428919	Rock	2.12	0.019	1.1	15.0	11.3	37	<0.1	1.5	1.3	100	1.19	1	1.0	13.2	93	0.2	0.5	<0.1	16	0.18
1428920	Rock	2.66	0.011	2.0	39.0	12.8	31	<0.1	1.5	1.6	130	1.35	2	0.9	12.4	102	0.1	0.6	<0.1	16	0.21
1428921	Rock	2.37	2.281	3.2	36.0	22.4	26	1.0	1.2	1.3	137	1.21	2	1.1	12.7	79	<0.1	0.6	0.1	19	0.15
1428922	Rock	2.37	0.038	2.1	162.9	16.7	32	0.1	1.0	2.0	198	1.38	1	1.1	12.4	83	<0.1	1.2	<0.1	16	0.17
1428923	Rock	2.33	0.097	1.7	50.8	17.2	35	0.1	1.0	1.3	148	1.40	2	0.6	12.5	148	<0.1	0.9	<0.1	19	0.42
1428924	Rock	2.33	0.076	4.6	16.7	13.6	53	0.2	1.3	1.4	128	1.17	2	0.5	9.8	117	0.3	0.6	0.6	21	0.24
1428925	Rock Pulp	0.06	0.008	2.2	26.8	5.1	59	0.4	33.9	15.7	753	3.69	5	0.7	1.8	273	0.2	0.8	<0.1	137	2.84
1428926	Rock	2.39	0.057	1.3	60.9	12.5	160	0.1	1.2	1.9	123	1.55	2	0.7	11.1	102	0.7	0.7	0.1	22	0.24
1428927	Rock	1.69	0.178	3.4	79.4	10.2	40	0.2	1.1	2.1	188	1.61	2	0.7	7.9	77	0.2	0.7	0.1	24	0.29
1428928	Rock	1.21	0.130	1.8	53.4	11.7	38	<0.1	1.1	2.1	217	1.50	2	0.6	8.0	99	<0.1	0.6	<0.1	24	0.84
1428929	Rock	2.52	0.042	2.3	43.8	12.9	41	<0.1	0.9	2.0	254	1.53	2	0.7	7.8	101	0.1	0.8	<0.1	26	0.39
1428930	Rock	2.76	0.188	7.0	90.8	12.9	68	0.1	2.0	3.5	386	2.62	5	1.4	7.5	105	0.1	1.3	0.4	47	0.68
1428931	Rock	1.66	0.065	4.6	133.4	10.0	36	0.1	1.0	2.6	332	1.57	16	1.2	8.9	84	<0.1	3.0	0.2	29	1.00
1428932	Rock	2.16	0.064	3.7	57.0	9.4	59	<0.1	3.2	4.8	570	2.37	6	1.6	6.3	106	0.2	1.1	0.4	49	1.62
1428933	Rock	2.61	0.089	5.0	50.6	7.7	66	<0.1	1.4	4.8	506	2.44	4	1.3	7.4	118	0.2	0.9	0.2	54	1.42
1428934	Rock	2.69	0.137	10.2	46.7	7.3	54	<0.1	1.9	3.4	360	1.84	3	1.2	7.9	119	0.2	0.6	<0.1	33	1.17
1428935	Rock	3.23	0.099	4.8	31.6	8.2	62	<0.1	1.0	2.5	324	1.52	3	1.0	7.1	117	0.4	0.8	<0.1	27	1.05
1428936	Rock	2.91	0.026	10.2	23.7	9.2	77	<0.1	1.1	2.4	308	1.62	3	0.9	6.8	125	0.3	1.1	<0.1	23	1.14



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Project: MPA

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
1428907	Rock	0.018	17.6	6	0.17	822	0.097	6.18	2.907	2.41	1.9	14.3	33	1.4	9.3	5.9	0.3	1	4	4.4	<0.1	
1428908	Rock	0.017	17.7	6	0.20	1008	0.098	6.28	2.941	2.29	2.2	12.7	33	1.3	10.2	5.8	0.4	1	4	6.1	<0.1	
1428909	Rock	0.014	16.3	6	0.17	878	0.089	5.92	2.787	1.99	2.4	11.7	31	1.3	9.4	5.1	0.3	1	3	7.1	<0.1	
1428910	Rock	0.014	16.9	7	0.18	769	0.084	6.41	3.252	2.29	2.1	12.5	32	1.3	8.7	5.4	0.3	2	3	7.4	<0.1	
1428911	Rock	0.012	17.3	6	0.16	823	0.083	6.23	3.123	2.33	2.6	13.4	32	1.4	9.1	5.7	0.4	1	3	6.7	<0.1	
1428912	Rock	0.011	20.2	6	0.14	808	0.076	5.75	2.726	2.58	3.4	16.2	36	2.9	7.2	5.7	0.4	1	3	4.1	0.1	
1428913	Rock	0.007	22.0	5	0.11	869	0.062	5.62	2.732	2.81	2.7	20.3	40	2.4	5.9	5.2	0.3	<1	3	3.5	0.1	
1428914	Rock	0.012	20.6	8	0.08	602	0.064	3.70	0.729	4.09	4.9	12.9	37	2.1	5.2	4.3	0.4	<1	3	5.9	0.2	
1428915	Rock	0.023	20.4	4	0.12	830	0.102	5.71	1.642	3.55	3.3	19.8	39	2.1	6.1	5.1	0.4	1	4	4.9	<0.1	
1428916	Rock	0.018	31.1	12	0.18	915	0.124	5.95	1.983	2.88	2.0	27.5	59	1.2	7.4	7.0	0.5	1	5	6.0	<0.1	
1428917	Rock	0.014	33.5	6	0.16	825	0.079	5.99	1.601	3.13	2.9	25.4	60	1.2	7.1	6.3	0.4	1	4	5.8	<0.1	
1428918	Rock	0.013	28.2	6	0.12	1005	0.067	5.79	1.766	3.03	2.5	23.1	51	1.0	5.8	6.1	0.4	1	3	4.3	<0.1	
1428919	Rock	0.010	31.5	6	0.08	1062	0.060	5.81	1.987	3.48	2.8	29.0	58	0.6	6.4	6.6	0.4	<1	4	2.6	<0.1	
1428920	Rock	0.009	29.2	6	0.07	1121	0.062	5.92	2.291	3.58	2.7	28.7	57	0.9	5.4	7.0	0.5	<1	4	3.0	<0.1	
1428921	Rock	0.008	30.9	7	0.05	983	0.059	5.66	2.345	3.80	4.0	26.4	56	0.9	5.7	6.7	0.5	<1	3	1.9	<0.1	
1428922	Rock	0.008	30.1	6	0.07	960	0.053	5.66	1.877	3.56	2.6	25.4	55	1.0	6.7	4.8	0.3	1	3	3.4	<0.1	
1428923	Rock	0.010	31.8	7	0.08	1160	0.055	6.80	2.788	4.26	2.4	26.9	60	0.9	6.0	3.7	0.2	1	3	2.9	<0.1	
1428924	Rock	0.007	24.6	6	0.05	1071	0.051	5.77	2.403	4.12	4.2	24.0	45	0.9	3.6	3.6	0.2	<1	3	1.8	<0.1	
1428925	Rock Pulp	0.067	8.2	54	1.44	471	0.382	6.43	2.499	0.92	20.0	26.0	18	0.8	14.9	3.9	0.3	<1	15	16.3	<0.1	
1428926	Rock	0.018	30.1	5	0.12	815	0.084	5.77	1.795	3.35	2.7	25.3	56	1.8	6.1	5.4	0.3	1	4	3.3	<0.1	
1428927	Rock	0.013	21.2	6	0.07	811	0.080	5.57	1.716	3.66	3.7	18.8	39	1.2	4.9	4.7	0.3	<1	3	3.1	<0.1	
1428928	Rock	0.015	21.1	6	0.09	884	0.086	6.01	2.165	3.34	3.7	13.8	38	1.4	4.6	4.9	0.3	<1	3	3.3	<0.1	
1428929	Rock	0.020	21.1	5	0.10	774	0.096	5.98	2.241	3.33	3.3	14.6	39	1.6	4.9	5.3	0.3	1	4	3.3	<0.1	
1428930	Rock	0.043	22.9	8	0.18	728	0.174	6.54	1.569	3.36	5.9	17.6	44	1.9	7.6	6.3	0.4	1	6	6.4	<0.1	
1428931	Rock	0.016	24.3	6	0.11	829	0.092	5.98	1.871	3.41	3.5	21.5	46	1.8	5.1	4.9	0.3	<1	4	3.7	<0.1	
1428932	Rock	0.035	18.2	12	0.30	803	0.146	6.19	1.815	3.12	5.5	16.9	33	2.3	7.3	6.5	0.4	1	7	5.2	<0.1	
1428933	Rock	0.034	19.4	7	0.30	939	0.176	6.55	1.872	3.36	4.9	19.9	38	2.2	8.7	6.7	0.5	<1	7	6.2	<0.1	
1428934	Rock	0.021	19.2	8	0.20	839	0.117	6.18	2.286	2.98	5.4	16.4	37	1.5	7.3	5.4	0.4	1	4	4.9	0.1	
1428935	Rock	0.019	19.7	6	0.20	948	0.107	6.14	2.558	3.08	5.0	16.9	37	1.5	6.4	5.9	0.4	1	4	3.1	<0.1	
1428936	Rock	0.017	19.0	7	0.19	906	0.102	6.39	2.432	2.98	3.8	13.3	36	1.5	6.2	5.8	0.4	1	4	3.2	<0.1	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1428907	Rock	70.4	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428908	Rock	67.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428909	Rock	61.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428910	Rock	62.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428911	Rock	62.1	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428912	Rock	68.5	0.5	0.13	<0.005	<1	<0.5	<0.5
1428913	Rock	70.9	0.6	0.16	<0.005	<1	<0.5	<0.5
1428914	Rock	70.4	0.4	0.06	<0.005	<1	<0.5	0.6
1428915	Rock	75.8	0.6	0.06	<0.005	<1	<0.5	0.5
1428916	Rock	74.6	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428917	Rock	75.9	0.8	0.06	<0.005	<1	<0.5	<0.5
1428918	Rock	73.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
1428919	Rock	82.7	0.9	<0.05	<0.005	<1	<0.5	<0.5
1428920	Rock	86.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
1428921	Rock	84.4	0.8	<0.05	<0.005	<1	0.5	<0.5
1428922	Rock	81.4	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428923	Rock	95.2	0.9	<0.05	<0.005	<1	<0.5	0.5
1428924	Rock	78.9	0.7	<0.05	<0.005	<1	<0.5	<0.5
1428925	Rock Pulp	18.8	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428926	Rock	80.2	0.8	0.13	<0.005	<1	<0.5	<0.5
1428927	Rock	78.2	0.6	<0.05	<0.005	<1	<0.5	<0.5
1428928	Rock	81.3	0.4	<0.05	<0.005	<1	<0.5	0.5
1428929	Rock	82.7	0.4	0.06	<0.005	<1	<0.5	<0.5
1428930	Rock	94.5	0.6	0.09	<0.005	<1	<0.5	0.6
1428931	Rock	82.3	0.7	0.09	<0.005	<1	<0.5	<0.5
1428932	Rock	96.8	0.5	0.07	<0.005	<1	<0.5	0.5
1428933	Rock	104.4	0.5	0.08	<0.005	<1	<0.5	0.6
1428934	Rock	79.6	0.5	0.07	<0.005	<1	<0.5	<0.5
1428935	Rock	75.1	0.5	0.06	<0.005	<1	<0.5	<0.5
1428936	Rock	84.1	0.4	<0.05	<0.005	<1	<0.5	0.5



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1428937	Rock	3.07	1.040	7.9	13.5	6.9	17	0.8	2.0	1.7	190	0.88	3	0.5	4.7	96	<0.1	1.3	<0.1	17	1.52
1428938	Rock	2.09	2.068	20.1	24.6	13.6	22	0.4	2.6	1.8	192	1.31	3	1.2	3.0	138	<0.1	1.5	0.3	10	1.89
1428939	Rock	2.38	0.658	13.4	64.8	11.3	56	0.2	1.4	3.3	360	2.52	2	1.6	7.0	127	<0.1	1.7	0.2	38	1.22
1428940	Rock	3.14	0.206	7.0	36.0	11.5	80	<0.1	7.3	7.8	516	2.83	3	1.5	6.6	122	0.1	1.7	0.7	65	2.19
1428941	Rock	2.76	0.107	2.6	47.4	11.3	51	<0.1	2.0	3.5	310	1.69	3	1.4	10.0	138	0.1	0.6	0.2	31	1.56
1428942	Rock	2.66	0.068	4.8	32.9	10.9	66	<0.1	1.1	3.5	397	2.31	3	1.3	7.8	143	0.1	0.5	0.2	35	1.47
1428943	Rock	1.94	0.087	5.8	39.0	7.0	66	<0.1	1.6	4.7	522	2.45	3	1.2	7.1	116	0.2	0.8	0.2	55	1.46
1428944	Rock	3.31	0.080	5.0	32.1	8.4	65	<0.1	1.0	2.6	346	1.73	3	1.1	8.1	128	0.2	0.7	<0.1	28	1.13
1428945	Rock	2.75	0.654	9.6	15.3	7.3	25	<0.1	1.8	2.0	217	0.95	3	0.5	5.6	101	<0.1	1.5	<0.1	18	1.49
1428946	Rock	3.42	0.580	11.3	64.2	10.3	53	0.1	1.3	3.1	296	2.44	4	1.9	6.5	118	<0.1	1.5	0.2	36	1.10
1428947	Rock	1.84	0.057	7.2	23.2	11.3	56	0.2	2.0	3.8	337	2.00	2	1.3	7.6	103	<0.1	0.6	0.5	39	1.39
1428948	Rock	1.99	0.037	6.2	22.5	12.3	42	0.2	1.6	2.8	268	1.60	2	0.9	8.2	119	<0.1	0.6	0.3	31	1.12
1428949	Rock	2.20	0.041	4.5	38.5	13.4	55	0.1	6.0	4.3	356	2.15	4	1.4	8.9	146	0.2	0.5	0.2	43	1.01
1428950	Rock	0.87	0.008	1.6	46.9	13.1	36	<0.1	5.2	3.0	234	1.40	3	0.8	7.9	113	<0.1	0.8	0.3	18	0.18
1428951	Rock	2.07	0.012	2.2	67.1	11.7	44	0.1	4.6	3.3	271	1.82	3	0.8	8.3	97	0.2	0.7	0.2	19	0.19
1428952	Rock	3.73	0.007	5.7	91.7	10.6	70	0.3	2.4	9.5	563	4.22	3	1.7	9.4	82	0.2	1.1	0.8	29	0.26
1428953	Rock	2.28	0.007	3.4	93.2	13.3	47	0.2	2.2	4.1	598	2.14	3	1.0	8.0	122	<0.1	0.7	0.3	18	0.22
1428954	Rock	2.34	<0.005	3.7	70.8	9.8	62	0.1	1.3	3.8	378	2.13	2	1.1	8.0	106	0.2	0.6	0.3	27	0.61
1428955	Rock	1.79	<0.005	4.5	24.3	9.8	91	<0.1	2.4	4.3	449	2.65	3	1.4	6.2	109	0.3	0.6	0.3	35	1.53
1428956	Rock	2.93	0.025	8.8	38.5	11.7	63	<0.1	2.4	3.3	389	1.78	7	1.6	8.4	116	0.3	1.1	0.1	22	1.24
1428957	Rock	1.83	0.029	14.8	25.2	13.1	62	<0.1	2.9	2.6	342	1.69	2	1.4	8.4	125	0.2	0.5	0.2	15	1.15
1428958	Rock	2.13	0.020	8.4	47.6	13.6	82	<0.1	1.8	2.7	356	1.75	3	1.3	8.6	98	0.3	0.6	0.1	15	0.97
1428959	Rock	2.31	0.037	9.5	81.9	11.0	80	0.1	2.0	3.4	321	1.93	2	1.1	7.1	113	0.2	0.5	0.1	16	1.61
1428960	Rock	1.63	0.381	7.1	68.3	11.3	86	0.4	2.0	2.8	309	1.65	2	1.0	7.9	100	0.3	0.6	0.1	17	0.56
1428961	Rock	0.82	0.193	6.6	51.6	14.1	94	0.3	2.0	2.8	342	1.78	3	1.2	8.2	111	0.6	0.7	0.1	24	0.90
1428962	Rock	2.03	0.342	7.2	59.8	15.8	84	0.3	2.1	2.8	429	1.63	3	1.4	9.0	112	0.3	0.7	0.1	22	0.88
1428963	Rock	2.44	0.102	5.3	40.4	17.3	85	0.2	2.0	2.9	462	1.82	2	2.0	9.4	130	0.4	0.6	0.2	20	0.97
1428964	Rock	1.25	0.108	7.8	58.1	16.9	78	0.1	2.3	3.4	430	1.89	3	1.4	8.1	137	0.2	0.5	0.2	21	1.27
1428965	Rock Pulp	0.06	1.401	8.3	47.3	8.6	63	0.2	38.8	12.9	738	4.37	8	0.7	1.7	260	0.2	2.2	0.1	127	2.57
1428966	Rock	1.45	0.116	5.2	62.4	16.1	68	0.2	1.9	3.4	387	1.71	2	1.6	8.0	133	0.2	0.5	0.3	19	1.19



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
1428937	Rock	0.020	12.6	6	0.04	780	0.114	5.36	0.497	7.41	7.5	11.4	26	2.7	4.2	7.3	0.4	<1	2	3.6	0.3	
1428938	Rock	0.010	8.8	6	0.05	1630	0.044	2.96	0.426	2.33	3.0	8.5	16	1.6	4.4	2.6	0.2	<1	1	6.0	0.2	
1428939	Rock	0.022	17.0	7	0.27	969	0.104	6.70	2.836	2.88	3.7	15.3	33	7.8	6.9	5.0	0.4	2	4	4.8	0.2	
1428940	Rock	0.047	16.7	22	0.86	1050	0.177	6.74	2.400	2.92	3.0	14.7	32	4.4	8.0	5.9	0.5	2	9	7.0	<0.1	
1428941	Rock	0.036	24.2	8	0.30	748	0.108	6.52	2.968	2.30	1.9	13.8	47	3.1	8.9	5.5	0.4	1	4	4.2	<0.1	
1428942	Rock	0.032	18.7	7	0.30	979	0.141	6.84	2.806	2.46	1.7	14.5	37	4.7	10.2	6.0	0.4	2	5	5.1	<0.1	
1428943	Rock	0.033	20.1	<1	0.32	926	0.175	6.65	1.945	3.25	3.9	19.2	40	2.0	8.9	6.4	0.4	2	7	5.9	<0.1	
1428944	Rock	0.021	22.2	6	0.21	1026	0.113	6.51	2.674	3.19	4.7	17.2	42	1.8	6.9	6.1	0.4	1	4	3.3	<0.1	
1428945	Rock	0.020	15.3	6	0.06	805	0.113	5.65	0.692	6.76	7.3	12.0	30	2.7	4.7	7.2	0.4	<1	2	3.1	0.2	
1428946	Rock	0.018	16.2	6	0.23	912	0.100	6.56	2.848	2.77	3.0	14.9	31	7.2	6.6	4.8	0.4	1	4	4.9	0.1	
1428947	Rock	0.040	20.9	8	0.31	715	0.138	6.31	1.944	2.57	3.2	12.6	42	2.5	7.4	5.9	0.4	1	5	4.5	<0.1	
1428948	Rock	0.022	21.4	7	0.21	771	0.099	6.19	2.897	2.30	2.9	13.1	42	2.1	6.3	5.1	0.3	<1	4	3.4	<0.1	
1428949	Rock	0.021	24.7	18	0.30	1012	0.151	6.21	2.458	2.33	2.3	25.3	47	2.0	9.3	6.2	0.4	1	5	7.2	<0.1	
1428950	Rock	0.013	20.9	8	0.12	773	0.108	5.83	2.510	2.46	2.4	22.2	41	1.3	5.1	5.5	0.4	1	4	4.2	<0.1	
1428951	Rock	0.019	22.1	9	0.13	670	0.111	6.45	2.777	1.99	4.3	17.0	40	1.5	7.2	6.1	0.5	1	4	4.7	<0.1	
1428952	Rock	0.033	29.3	6	0.23	869	0.161	7.38	1.754	3.25	3.1	19.1	57	8.8	11.9	8.1	0.6	1	7	8.3	<0.1	
1428953	Rock	0.028	22.3	8	0.16	845	0.123	6.55	2.444	2.88	2.9	19.7	41	1.8	9.2	6.9	0.6	1	5	3.5	<0.1	
1428954	Rock	0.031	22.3	6	0.18	898	0.161	6.50	2.384	2.59	2.7	16.2	43	2.2	10.3	7.2	0.6	1	7	8.7	<0.1	
1428955	Rock	0.035	16.7	8	0.27	975	0.170	6.40	2.391	2.61	3.3	17.7	32	1.7	8.5	6.7	0.5	2	7	7.7	<0.1	
1428956	Rock	0.027	19.9	9	0.17	993	0.115	6.15	2.875	2.66	5.0	19.4	39	1.6	6.4	7.2	0.7	1	5	3.4	<0.1	
1428957	Rock	0.025	19.4	4	0.15	1005	0.103	6.14	2.512	2.96	3.0	14.1	37	1.5	8.0	6.6	0.5	1	4	2.6	<0.1	
1428958	Rock	0.022	23.1	6	0.12	700	0.116	6.50	2.560	2.24	2.7	18.5	43	2.0	8.6	7.1	0.6	2	5	3.7	<0.1	
1428959	Rock	0.025	17.6	9	0.12	721	0.120	6.13	2.445	2.33	2.7	19.5	34	2.4	7.7	6.8	0.5	1	5	3.6	<0.1	
1428960	Rock	0.019	21.5	8	0.10	803	0.105	5.86	2.446	2.77	3.7	18.4	39	2.0	6.3	6.8	0.5	<1	4	3.2	<0.1	
1428961	Rock	0.021	22.4	8	0.09	938	0.103	6.23	2.558	3.16	4.2	14.5	41	1.6	6.4	5.8	0.4	<1	4	3.6	<0.1	
1428962	Rock	0.020	23.8	7	0.10	1007	0.099	6.31	2.539	3.15	4.5	16.0	43	1.6	7.0	6.3	0.5	1	4	3.4	<0.1	
1428963	Rock	0.023	25.5	7	0.17	1010	0.123	6.43	2.439	3.06	3.7	18.2	47	2.1	8.6	7.1	0.5	1	5	3.4	<0.1	
1428964	Rock	0.027	20.2	10	0.22	927	0.127	6.49	2.443	2.96	2.6	15.3	37	1.9	8.3	6.7	0.5	1	5	3.9	<0.1	
1428965	Rock Pulp	0.062	8.5	54	1.35	486	0.351	6.11	2.294	0.84	0.8	26.9	18	2.0	14.6	4.2	0.2	<1	15	16.3	<0.1	
1428966	Rock	0.024	19.9	7	0.19	942	0.118	6.43	2.549	2.82	2.7	15.1	38	1.7	7.8	6.8	0.5	1	5	3.8	<0.1	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1428937	Rock	111.9	0.4	<0.05	<0.005	<1	<0.5	0.9
1428938	Rock	43.7	0.2	<0.05	<0.005	<1	0.6	<0.5
1428939	Rock	77.8	0.5	0.05	<0.005	<1	<0.5	0.5
1428940	Rock	98.4	0.5	0.07	<0.005	<1	<0.5	0.7
1428941	Rock	67.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428942	Rock	83.7	0.4	0.08	<0.005	<1	<0.5	0.5
1428943	Rock	107.8	0.6	0.08	<0.005	<1	<0.5	0.6
1428944	Rock	83.1	0.5	0.05	<0.005	<1	<0.5	<0.5
1428945	Rock	112.7	0.4	<0.05	<0.005	<1	<0.5	0.8
1428946	Rock	75.3	0.5	0.06	<0.005	<1	<0.5	<0.5
1428947	Rock	80.0	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428948	Rock	64.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428949	Rock	66.5	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428950	Rock	69.0	0.7	0.07	<0.005	<1	<0.5	<0.5
1428951	Rock	59.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428952	Rock	107.1	0.6	0.25	<0.005	<1	<0.5	0.6
1428953	Rock	83.7	0.6	0.06	<0.005	<1	<0.5	<0.5
1428954	Rock	87.0	0.5	0.08	<0.005	<1	<0.5	<0.5
1428955	Rock	85.3	0.5	0.06	<0.005	<1	<0.5	<0.5
1428956	Rock	68.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
1428957	Rock	78.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428958	Rock	73.0	0.6	0.11	<0.005	<1	<0.5	<0.5
1428959	Rock	71.4	0.6	0.14	<0.005	<1	<0.5	<0.5
1428960	Rock	78.9	0.6	0.13	<0.005	<1	<0.5	<0.5
1428961	Rock	83.8	0.5	<0.05	<0.005	<1	<0.5	0.5
1428962	Rock	84.5	0.5	<0.05	<0.005	<1	<0.5	0.5
1428963	Rock	92.2	0.5	0.06	<0.005	<1	<0.5	0.5
1428964	Rock	94.9	0.5	0.06	<0.005	<1	<0.5	0.6
1428965	Rock Pulp	20.8	1.0	0.06	<0.005	<1	<0.5	<0.5
1428966	Rock	90.7	0.4	0.07	<0.005	<1	<0.5	0.5



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CERTIFICATE OF ANALYSIS

WHI15000215.1

Method Analyte Unit MDL	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
1428967	Rock	2.61	0.024	5.1	44.0	16.3	57	0.1	2.2	3.1	374	1.75	2	1.4	8.9	139	0.1	0.5	0.2	16	1.21
1428968	Rock	4.78	0.024	5.6	48.8	18.0	62	0.1	2.3	3.5	438	1.83	2	1.6	9.3	149	0.1	0.4	0.2	17	1.43
1428969	Rock	3.30	0.022	4.9	46.8	16.4	68	<0.1	3.9	4.5	504	2.24	3	1.8	8.4	141	0.1	0.3	0.2	23	1.60
1428970	Rock	3.54	0.035	3.4	54.4	13.5	64	0.1	3.7	4.9	500	2.06	2	1.7	8.1	134	0.1	0.3	0.3	28	1.73
1428971	Rock	4.74	0.056	2.5	50.7	13.7	67	<0.1	3.3	4.3	454	2.33	2	1.8	8.6	136	0.2	0.4	0.2	29	1.54
1428972	Rock	1.48	0.715	3.5	42.4	12.0	74	0.2	2.4	3.9	448	2.23	2	1.6	7.8	140	0.2	0.4	0.1	33	1.48
1428973	Rock	3.32	0.627	5.0	50.7	9.2	44	0.6	2.7	3.3	326	1.88	2	1.1	6.5	113	<0.1	0.6	<0.1	21	1.19
1428974	Rock	2.60	0.729	4.8	38.8	8.2	49	0.3	1.6	3.4	392	2.03	2	1.3	7.0	110	<0.1	0.9	<0.1	27	1.23
1428975	Rock	1.85	0.900	42.8	19.9	11.2	24	0.3	3.0	2.6	218	1.31	3	1.1	4.3	66	<0.1	2.1	0.1	13	0.68
1428976	Rock	1.72	0.698	14.9	48.0	11.8	36	0.2	2.0	2.5	200	1.31	3	1.0	6.0	93	<0.1	1.4	<0.1	11	0.67
1428977	Rock	1.58	0.249	7.4	64.8	12.4	47	0.1	2.3	3.0	266	1.76	2	1.0	7.1	118	<0.1	0.7	<0.1	13	1.18
1428978	Rock	2.22	0.233	3.8	78.9	11.9	42	0.1	1.6	2.9	249	1.46	<1	0.9	6.2	117	<0.1	0.4	<0.1	11	1.12
1428979	Rock	1.62	0.080	2.5	57.1	9.4	38	0.1	1.5	2.5	247	1.45	2	1.2	6.6	127	<0.1	0.4	<0.1	10	1.21
1428980	Rock	1.48	0.079	2.1	42.0	13.5	53	0.1	1.3	3.4	282	1.73	1	1.2	5.1	154	<0.1	0.3	0.1	16	1.12
1428981	Rock	0.91	0.033	2.1	54.4	15.8	53	0.1	2.1	3.1	302	1.80	3	1.4	6.1	187	0.2	0.4	0.2	12	1.19
1428982	Rock	2.34	0.151	1.5	63.3	13.6	45	0.1	1.2	2.0	277	1.28	1	2.0	6.4	142	0.1	0.3	<0.1	9	1.13
1428983	Rock	2.28	0.044	6.5	136.9	13.0	60	0.2	1.8	3.4	434	2.10	1	2.0	7.8	131	0.2	0.4	0.1	12	1.29
1428984	Rock	2.86	0.021	7.2	69.2	10.8	60	0.1	1.5	3.4	404	1.99	<1	1.3	7.1	128	0.1	0.3	0.1	15	1.42



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
1428967	Rock	0.020	23.3	9	0.17	963	0.110	6.45	2.496	2.77	2.6	17.3	43	1.6	8.9	6.4	0.5	2	4	3.9	<0.1
1428968	Rock	0.023	21.9	9	0.20	995	0.119	6.56	2.568	2.79	3.6	17.6	42	2.3	9.8	7.2	0.5	2	5	4.3	<0.1
1428969	Rock	0.027	19.6	14	0.29	944	0.132	6.47	2.509	2.82	4.0	17.0	37	2.7	9.8	7.4	0.6	2	5	5.4	<0.1
1428970	Rock	0.027	17.1	12	0.33	879	0.141	6.05	2.291	2.58	3.4	17.1	32	2.2	10.1	7.8	0.7	1	6	5.8	<0.1
1428971	Rock	0.033	20.7	12	0.32	925	0.162	6.18	2.266	2.85	4.2	17.2	39	3.2	10.9	7.9	0.7	2	6	6.0	<0.1
1428972	Rock	0.030	19.4	9	0.34	834	0.162	6.33	2.356	3.02	5.2	15.5	37	4.6	9.8	7.4	0.5	2	6	6.6	0.1
1428973	Rock	0.018	15.2	10	0.19	733	0.100	5.58	2.120	3.20	4.2	13.2	29	2.9	5.9	5.0	0.4	1	4	4.1	0.1
1428974	Rock	0.021	19.6	7	0.29	834	0.120	5.95	1.770	3.58	5.6	12.9	35	3.8	5.6	5.4	0.4	1	5	3.6	0.2
1428975	Rock	0.014	13.8	8	0.15	546	0.067	3.69	0.382	2.87	5.0	9.9	23	2.2	3.5	3.6	0.2	<1	3	7.8	0.3
1428976	Rock	0.014	15.8	5	0.13	763	0.076	4.92	1.647	2.55	2.9	9.6	28	1.3	4.6	4.0	0.3	<1	3	11.0	0.1
1428977	Rock	0.016	19.9	9	0.18	775	0.099	6.37	2.667	2.38	2.8	13.1	35	1.7	6.1	5.4	0.3	1	4	4.9	0.1
1428978	Rock	0.014	16.3	7	0.18	792	0.085	6.27	2.758	2.53	1.9	14.2	30	2.3	5.7	5.0	0.3	1	3	3.6	0.1
1428979	Rock	0.016	16.9	6	0.20	714	0.087	6.39	2.905	2.17	1.6	17.9	32	3.1	7.3	5.6	0.4	1	4	4.1	0.1
1428980	Rock	0.023	16.0	6	0.26	1029	0.117	6.25	2.378	2.62	1.3	13.9	30	2.5	8.2	5.4	0.4	1	4	7.2	0.1
1428981	Rock	0.020	17.8	8	0.22	1112	0.104	6.52	2.572	2.65	2.3	13.6	33	2.1	9.4	5.7	0.5	1	4	6.6	<0.1
1428982	Rock	0.014	17.2	5	0.17	828	0.077	5.74	2.641	1.96	1.7	12.1	32	1.5	8.3	4.9	0.4	1	3	4.5	<0.1
1428983	Rock	0.018	19.8	9	0.22	915	0.099	6.52	2.726	2.38	2.9	14.5	38	3.3	10.5	6.7	0.5	1	4	5.7	0.2
1428984	Rock	0.027	19.3	6	0.24	840	0.127	6.22	2.727	2.36	2.0	16.2	35	2.7	10.4	6.4	0.5	1	5	4.2	0.1



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1428967	Rock	85.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428968	Rock	84.3	0.6	0.07	<0.005	<1	<0.5	0.5
1428969	Rock	86.6	0.5	<0.05	<0.005	<1	<0.5	0.5
1428970	Rock	79.2	0.5	<0.05	<0.005	<1	<0.5	0.5
1428971	Rock	91.9	0.5	0.06	<0.005	<1	<0.5	0.6
1428972	Rock	89.0	0.5	0.07	<0.005	<1	<0.5	0.6
1428973	Rock	76.4	0.4	<0.05	<0.005	<1	<0.5	0.5
1428974	Rock	92.3	0.4	<0.05	<0.005	<1	<0.5	0.7
1428975	Rock	59.8	0.3	<0.05	0.007	<1	<0.5	0.6
1428976	Rock	64.2	0.3	<0.05	<0.005	<1	<0.5	<0.5
1428977	Rock	72.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428978	Rock	70.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428979	Rock	64.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
1428980	Rock	79.0	0.4	<0.05	<0.005	<1	<0.5	0.5
1428981	Rock	78.6	0.4	<0.05	<0.005	<1	<0.5	0.5
1428982	Rock	60.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428983	Rock	73.6	0.4	<0.05	<0.005	<1	<0.5	<0.5
1428984	Rock	81.5	0.5	0.05	<0.005	<1	<0.5	0.5



QUALITY CONTROL REPORT

WHI15000215.1

Method	Analyte	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	0.1	0.1	0.1	1	
Pulp Duplicates																					
1428862	Rock	1.50	0.149	4.7	79.3	12.2	67	0.2	3.0	3.2	364	2.08	<1	0.8	12.2	89	0.1	1.1	<0.1	31	0.30
REP 1428862	QC			4.6	79.1	12.5	67	0.2	3.6	2.5	364	1.98	3	0.9	12.4	92	0.3	1.3	0.1	31	0.32
1428869	Rock	2.78	3.450	15.2	46.8	13.3	39	0.5	3.1	2.7	291	1.79	5	0.9	5.3	80	0.2	1.9	0.2	26	0.12
REP 1428869	QC		3.403																		
1428897	Rock	2.21	0.030	3.2	28.8	7.3	73	<0.1	3.6	5.1	478	2.42	2	1.5	9.9	110	0.1	1.2	0.2	56	0.92
REP 1428897	QC			3.3	29.9	7.3	73	<0.1	3.1	4.8	482	2.38	3	1.5	9.4	110	0.1	1.3	0.2	57	0.91
1428919	Rock	2.12	0.019	1.1	15.0	11.3	37	<0.1	1.5	1.3	100	1.19	1	1.0	13.2	93	0.2	0.5	<0.1	16	0.18
REP 1428919	QC		0.035																		
1428932	Rock	2.16	0.064	3.7	57.0	9.4	59	<0.1	3.2	4.8	570	2.37	6	1.6	6.3	106	0.2	1.1	0.4	49	1.62
REP 1428932	QC			8.7	60.4	10.0	62	<0.1	3.3	5.2	587	2.45	6	1.6	6.6	109	0.2	1.3	0.4	50	1.70
1428946	Rock	3.42	0.580	11.3	64.2	10.3	53	0.1	1.3	3.1	296	2.44	4	1.9	6.5	118	<0.1	1.5	0.2	36	1.10
REP 1428946	QC		0.491																		
1428952	Rock	3.73	0.007	5.7	91.7	10.6	70	0.3	2.4	9.5	563	4.22	3	1.7	9.4	82	0.2	1.1	0.8	29	0.26
REP 1428952	QC		0.010																		
1428967	Rock	2.61	0.024	5.1	44.0	16.3	57	0.1	2.2	3.1	374	1.75	2	1.4	8.9	139	0.1	0.5	0.2	16	1.21
REP 1428967	QC			5.3	48.9	16.6	57	0.1	2.4	3.0	367	1.73	2	1.4	9.3	142	0.2	0.4	0.2	16	1.22
1428984	Rock	2.86	0.021	7.2	69.2	10.8	60	0.1	1.5	3.4	404	1.99	<1	1.3	7.1	128	0.1	0.3	0.1	15	1.42
REP 1428984	QC		0.032																		
Core Reject Duplicates																					
1428860	Rock	1.60	0.029	2.8	13.9	10.5	34	<0.1	1.8	1.6	143	1.33	<1	0.7	11.8	86	<0.1	0.5	<0.1	20	0.16
DUP 1428860	QC		0.031	3.0	15.0	10.5	34	0.1	1.8	1.5	149	1.35	2	0.7	12.4	85	<0.1	0.5	<0.1	21	0.15
1428894	Rock	0.56	0.105	8.5	28.0	7.1	142	<0.1	2.4	6.0	690	2.85	4	2.0	8.2	122	0.3	0.8	0.3	59	1.74
DUP 1428894	QC		0.104	7.9	26.8	6.9	147	<0.1	2.5	5.7	698	2.91	4	2.1	8.1	123	0.3	0.8	0.3	60	1.73
1428928	Rock	1.21	0.130	1.8	53.4	11.7	38	<0.1	1.1	2.1	217	1.50	2	0.6	8.0	99	<0.1	0.6	<0.1	24	0.84
DUP 1428928	QC		0.140	2.3	52.1	12.4	38	<0.1	1.0	2.0	220	1.46	2	0.6	7.8	100	<0.1	0.7	<0.1	25	0.88
1428962	Rock	2.03	0.342	7.2	59.8	15.8	84	0.3	2.1	2.8	429	1.63	3	1.4	9.0	112	0.3	0.7	0.1	22	0.88
DUP 1428962	QC		0.287	7.2	56.8	15.8	87	0.3	2.4	2.8	406	1.68	3	2.1	8.9	112	0.3	0.6	0.2	21	0.87
Reference Materials																					



QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
1428862	Rock	0.016	29.3	8	0.16	1122	0.081	5.70	1.919	3.63	4.9	25.1	58	1.7	6.8	5.6	0.4	<1	4	5.4	<0.1
REP 1428862	QC	0.016	31.4	8	0.16	1172	0.084	5.74	1.903	3.67	4.9	24.9	62	1.5	7.3	5.7	0.4	<1	4	5.0	<0.1
1428869	Rock	0.016	16.1	6	0.10	667	0.090	4.56	0.736	3.94	6.1	12.4	32	1.8	4.8	4.4	0.3	<1	4	6.2	<0.1
REP 1428869	QC																				
1428897	Rock	0.036	29.0	8	0.29	876	0.171	6.68	2.316	3.28	4.0	13.0	51	1.6	11.1	7.1	0.5	2	8	4.4	<0.1
REP 1428897	QC	0.037	26.2	9	0.28	875	0.173	6.63	2.304	3.25	4.3	13.4	48	1.8	10.9	7.3	0.5	2	7	4.4	<0.1
1428919	Rock	0.010	31.5	6	0.08	1062	0.060	5.81	1.987	3.48	2.8	29.0	58	0.6	6.4	6.6	0.4	<1	4	2.6	<0.1
REP 1428919	QC																				
1428932	Rock	0.035	18.2	12	0.30	803	0.146	6.19	1.815	3.12	5.5	16.9	33	2.3	7.3	6.5	0.4	1	7	5.2	<0.1
REP 1428932	QC	0.036	19.2	12	0.31	839	0.155	6.53	1.928	3.19	5.4	17.5	37	2.6	7.8	7.0	0.4	1	7	5.2	<0.1
1428946	Rock	0.018	16.2	6	0.23	912	0.100	6.56	2.848	2.77	3.0	14.9	31	7.2	6.6	4.8	0.4	1	4	4.9	0.1
REP 1428946	QC																				
1428952	Rock	0.033	29.3	6	0.23	869	0.161	7.38	1.754	3.25	3.1	19.1	57	8.8	11.9	8.1	0.6	1	7	8.3	<0.1
REP 1428952	QC																				
1428967	Rock	0.020	23.3	9	0.17	963	0.110	6.45	2.496	2.77	2.6	17.3	43	1.6	8.9	6.4	0.5	2	4	3.9	<0.1
REP 1428967	QC	0.022	23.9	9	0.16	980	0.111	6.49	2.500	2.79	2.7	16.7	43	1.5	8.9	6.7	0.5	1	4	4.1	<0.1
1428984	Rock	0.027	19.3	6	0.24	840	0.127	6.22	2.727	2.36	2.0	16.2	35	2.7	10.4	6.4	0.5	1	5	4.2	0.1
REP 1428984	QC																				
Core Reject Duplicates																					
1428860	Rock	0.010	29.4	5	0.08	1036	0.056	5.65	2.178	3.62	3.0	24.9	58	0.8	4.9	5.9	0.4	<1	3	3.2	<0.1
DUP 1428860	QC	0.011	31.7	5	0.08	1035	0.059	5.64	2.207	3.63	3.4	24.5	61	1.0	5.6	5.9	0.4	1	3	3.5	<0.1
1428894	Rock	0.048	18.5	9	0.34	806	0.207	6.53	1.980	3.15	4.0	16.8	38	2.2	12.6	8.0	0.5	1	8	5.6	<0.1
DUP 1428894	QC	0.047	19.6	9	0.35	794	0.207	6.41	2.154	3.13	4.2	16.6	39	2.1	12.9	7.7	0.5	1	8	5.9	<0.1
1428928	Rock	0.015	21.1	6	0.09	884	0.086	6.01	2.165	3.34	3.7	13.8	38	1.4	4.6	4.9	0.3	<1	3	3.3	<0.1
DUP 1428928	QC	0.016	21.9	5	0.09	910	0.090	6.14	2.235	3.42	3.7	14.6	40	1.4	4.7	5.1	0.3	<1	4	3.3	<0.1
1428962	Rock	0.020	23.8	7	0.10	1007	0.099	6.31	2.539	3.15	4.5	16.0	43	1.6	7.0	6.3	0.5	1	4	3.4	<0.1
DUP 1428962	QC	0.018	22.9	8	0.09	995	0.100	6.29	2.582	3.17	4.7	15.4	42	1.7	6.9	6.4	0.5	1	4	3.3	<0.1
Reference Materials																					



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Project: MPA
Report Date: October 22, 2015

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QUALITY CONTROL REPORT

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
1428862	Rock	84.2	0.8	<0.05	<0.005	<1	<0.5	0.6
REP 1428862	QC	87.2	0.8	0.09	<0.005	<1	<0.5	0.6
1428869	Rock	78.5	0.3	<0.05	<0.005	<1	0.7	0.7
REP 1428869	QC							
1428897	Rock	97.2	0.4	<0.05	<0.005	<1	<0.5	0.6
REP 1428897	QC	94.3	0.4	<0.05	<0.005	<1	<0.5	0.6
1428919	Rock	82.7	0.9	<0.05	<0.005	<1	<0.5	<0.5
REP 1428919	QC							
1428932	Rock	96.8	0.5	0.07	<0.005	<1	<0.5	0.5
REP 1428932	QC	98.1	0.5	0.11	<0.005	<1	<0.5	0.6
1428946	Rock	75.3	0.5	0.06	<0.005	<1	<0.5	<0.5
REP 1428946	QC							
1428952	Rock	107.1	0.6	0.25	<0.005	<1	<0.5	0.6
REP 1428952	QC							
1428967	Rock	85.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
REP 1428967	QC	86.6	0.6	0.06	<0.005	<1	<0.5	<0.5
1428984	Rock	81.5	0.5	0.05	<0.005	<1	<0.5	0.5
REP 1428984	QC							
Core Reject Duplicates								
1428860	Rock	82.0	0.8	<0.05	<0.005	<1	<0.5	0.5
DUP 1428860	QC	80.4	0.8	<0.05	<0.005	<1	<0.5	0.6
1428894	Rock	88.2	0.5	0.07	<0.005	<1	<0.5	0.6
DUP 1428894	QC	87.4	0.6	0.09	<0.005	<1	<0.5	0.6
1428928	Rock	81.3	0.4	<0.05	<0.005	<1	<0.5	0.5
DUP 1428928	QC	81.7	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428962	Rock	84.5	0.5	<0.05	<0.005	<1	<0.5	0.5
DUP 1428962	QC	83.2	0.5	<0.05	<0.005	<1	<0.5	0.5
Reference Materials								



QUALITY CONTROL REPORT

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		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.4	35.6	25.3	41	<0.1	45.5	7.7	484	6.63	10	2.8	15.8	48	0.1	0.7	0.5	158	0.31
STD OREAS25A-4A	Standard			2.6	34.1	24.7	44	<0.1	46.5	7.8	529	6.54	9	2.6	14.3	47	0.1	0.6	0.3	155	0.27
STD OREAS25A-4A	Standard			2.5	37.3	24.4	42	<0.1	46.4	8.3	506	6.53	10	2.7	15.5	48	<0.1	0.6	0.4	159	0.31
STD OREAS25A-4A	Standard			2.3	36.5	23.7	40	<0.1	43.6	7.4	483	6.73	10	2.8	15.0	46	<0.1	0.6	0.4	167	0.29
STD OREAS45E	Standard			2.7	815.6	18.7	48	0.3	483.4	62.9	571	25.30	17	2.5	13.0	17	<0.1	1.0	0.3	328	0.06
STD OREAS45E	Standard			2.4	812.2	19.2	48	0.3	481.9	59.8	635	25.00	16	2.6	13.4	17	<0.1	1.0	0.3	325	0.07
STD OREAS45E	Standard			2.4	771.6	18.6	50	0.3	488.9	59.4	533	24.92	17	2.4	12.8	17	<0.1	1.0	0.3	328	0.07
STD OREAS45E	Standard			2.4	822.3	19.3	47	0.3	489.3	63.7	574	25.29	17	2.6	13.7	17	<0.1	1.0	0.3	330	0.07
STD OXD108	Standard		0.417																		
STD OXD108	Standard		0.412																		
STD OXD108	Standard		0.435																		
STD OXD108	Standard		0.394																		
STD OXD108	Standard		0.425																		
STD OXI121	Standard		1.894																		
STD OXI121	Standard		1.837																		
STD OXI121	Standard		1.817																		
STD OXI121	Standard		1.791																		
STD OXI121	Standard		1.765																		
STD OXN117	Standard		7.906																		
STD OXN117	Standard		7.702																		
STD OXN117	Standard		7.583																		
STD OXN117	Standard		7.721																		
STD OXN117	Standard		7.761																		
STD OXD108 Expected			0.414																		
STD OXN117 Expected			7.679																		
STD OXI121 Expected			1.834																		
STD OREAS25A-4A				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<0.005																		



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Project: MPA

Report Date: October 22, 2015

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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS25A-4A	Standard	0.049	22.4	121	0.30	145	0.903	8.57	0.118	0.47	1.7	138.0	49	4.0	10.7	19.3	1.3	<1	13	39.5	<0.1
STD OREAS25A-4A	Standard	0.047	19.3	114	0.34	149	0.894	8.30	0.128	0.50	1.9	149.5	47	4.5	9.8	19.7	1.4	<1	12	37.3	<0.1
STD OREAS25A-4A	Standard	0.051	22.6	118	0.31	151	0.983	8.84	0.131	0.52	1.9	143.3	50	3.9	10.6	20.4	1.5	<1	14	39.1	<0.1
STD OREAS25A-4A	Standard	0.051	22.2	117	0.32	139	0.952	8.85	0.125	0.47	1.8	140.2	47	3.6	10.7	19.6	1.4	<1	13	36.3	<0.1
STD OREAS45E	Standard	0.035	12.4	1048	0.15	268	0.520	6.95	0.058	0.35	1.0	94.4	26	1.4	8.2	6.3	0.5	<1	98	6.8	<0.1
STD OREAS45E	Standard	0.035	11.3	1038	0.17	261	0.529	6.87	0.062	0.37	1.0	98.7	26	1.4	8.6	6.4	0.5	<1	97	7.0	<0.1
STD OREAS45E	Standard	0.033	10.3	973	0.14	253	0.547	6.65	0.060	0.31	0.9	95.9	23	1.3	7.9	6.4	0.5	<1	96	6.9	<0.1
STD OREAS45E	Standard	0.038	11.6	999	0.16	264	0.536	7.01	0.059	0.37	1.0	99.6	25	1.5	8.5	6.7	0.6	<1	99	7.0	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD OXD108 Expected																					
STD OXN117 Expected																					
STD OXI121 Expected																					
STD OREAS25A-4A		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS25A-4A	Standard	61.4	3.9	0.12	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	56.4	3.9	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.2	4.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	58.0	4.0	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.0	3.2	0.07	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.3	3.0	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.1	3.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.5	3.1	0.14	<0.005	3	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
STD OXD108 Expected								
STD OXN117 Expected								
STD OXI121 Expected								
STD OREAS25A-4A		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09
BLK	Blank							



QUALITY CONTROL REPORT

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		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.5	3.7	2.9	35	<0.1	1.2	4.1	705	2.27	2	1.2	2.6	221	0.2	0.1	0.2	48	1.66	
ROCK-WHI	Prep Blank	<0.005	0.3	2.9	3.3	35	<0.1	1.1	4.2	701	2.13	1	1.1	2.6	221	<0.1	0.1	0.1	47	1.60	



QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1	
Prep Wash																						
ROCK-WHI	Prep Blank	0.039	12.2	3	0.48	845	0.201	6.60	3.490	1.76	0.3	53.0	26	0.8	16.1	5.7	0.4	<1	6	1.9	<0.1	
ROCK-WHI	Prep Blank	0.042	11.5	3	0.46	815	0.197	6.54	3.532	1.69	0.3	54.1	25	0.8	16.6	5.6	0.4	1	6	1.9	<0.1	



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Project: MPA
Report Date: October 22, 2015

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QUALITY CONTROL REPORT

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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-WHI	Prep Blank	36.6	1.9	0.09	<0.005	<1	<0.5	<0.5
ROCK-WHI	Prep Blank	33.9	1.8	<0.05	<0.005	<1	<0.5	<0.5