



**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 27, 2015  
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# CERTIFICATE OF ANALYSIS

WHI15000216.1

## 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	132	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

# WHI15000216.1

Method	Analyte	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
Unit	MDL	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
1428985	Rock Pulp	0.06	0.005	2.5	27.4	5.3	60	0.3	34.4	15.9	761	3.63	6	0.6	1.8	276	0.2	0.8	0.2	130	2.82
1428986	Rock	2.19	0.018	3.5	56.6	15.5	58	0.2	1.0	3.4	328	1.72	2	1.6	7.5	153	0.2	0.3	0.1	13	1.36
1428987	Rock	2.03	0.017	2.7	44.0	11.3	40	0.1	0.9	2.7	265	1.63	2	1.9	7.8	164	0.1	0.2	<0.1	13	1.34
1428988	Rock	1.75	0.007	2.7	33.0	10.5	36	0.1	1.2	2.9	259	1.60	1	1.5	8.0	155	<0.1	0.3	0.1	14	1.38
1428989	Rock	2.70	0.010	2.3	42.8	11.6	34	<0.1	1.1	2.6	272	1.54	2	1.4	7.8	152	0.1	0.2	0.1	12	1.33
1428990	Rock	0.88	0.287	5.3	109.8	28.9	75	0.3	5.3	3.3	384	1.59	4	0.9	8.4	100	0.2	0.9	0.2	25	0.18
1428991	Rock	3.29	0.099	4.9	61.2	36.4	86	0.2	3.7	3.2	554	1.75	3	1.1	9.5	121	0.4	0.7	0.1	21	0.41
1428992	Rock	1.91	0.027	3.2	85.8	37.0	130	0.2	1.9	2.6	495	1.57	2	1.1	10.0	138	0.6	0.6	0.2	15	0.83
1428993	Rock	2.48	0.059	4.0	53.8	31.7	75	0.1	1.4	2.5	402	1.41	3	1.1	10.6	118	0.4	0.7	0.1	13	0.82
1428994	Rock	2.02	0.193	4.8	24.6	22.2	60	0.1	1.6	2.5	326	1.46	1	1.0	9.5	111	<0.1	0.6	0.1	18	0.92
1428995	Rock	2.71	0.197	4.5	25.4	23.0	62	0.1	1.4	2.4	329	1.57	2	1.0	9.4	112	0.2	0.6	<0.1	18	0.93
1428996	Rock	1.96	0.149	7.2	49.8	198.7	101	0.4	3.3	3.3	834	1.47	3	0.9	8.4	90	0.3	0.9	0.4	25	0.48
1428997	Rock	2.70	0.236	5.2	50.2	16.4	60	0.1	1.5	3.4	453	1.80	2	0.7	4.4	112	<0.1	0.5	<0.1	20	1.11
1428998	Rock	1.95	0.053	6.9	18.0	17.7	71	<0.1	1.5	2.5	361	1.66	2	0.9	7.0	149	0.1	0.5	<0.1	19	1.24
1428999	Rock	2.46	0.164	6.2	34.3	17.0	91	0.2	1.5	3.9	665	2.38	2	1.5	7.9	99	0.2	0.6	0.2	36	1.42
1429000	Rock	2.24	0.036	2.6	42.0	13.2	75	0.1	2.0	4.0	397	1.95	2	4.5	9.4	124	0.1	0.3	<0.1	28	1.35
1429001	Rock	2.14	0.182	78.7	53.2	11.2	91	0.2	1.5	5.6	566	2.73	1	1.6	7.5	139	0.2	0.3	<0.1	33	1.72
1429002	Rock	2.22	0.005	5.1	38.0	11.7	70	<0.1	1.7	2.8	381	1.70	2	1.7	9.2	157	0.2	0.2	<0.1	15	1.25
1429003	Rock	1.79	<0.005	5.8	57.4	16.5	64	0.1	1.6	3.2	355	1.76	2	1.4	9.9	149	0.3	0.2	<0.1	14	1.33
1429004	Rock	2.00	0.009	9.5	7.2	15.1	54	<0.1	1.8	2.3	327	1.35	1	0.8	10.1	127	<0.1	0.2	<0.1	16	1.14
1429005	Rock Pulp	0.07	1.437	9.3	53.1	8.8	66	0.2	40.7	13.5	802	4.47	8	0.7	1.9	274	0.1	2.4	0.1	134	2.66
1429006	Rock	1.96	0.107	27.1	209.2	16.9	100	0.5	4.3	9.7	625	3.83	5	1.6	9.9	116	0.2	0.4	0.4	38	1.61
1429007	Rock	2.29	0.035	105.2	292.7	20.0	68	0.5	1.6	12.0	451	2.88	4	1.3	9.4	144	<0.1	0.3	0.3	21	1.28
1429008	Rock	2.34	0.028	93.5	70.8	14.7	89	0.1	1.8	4.1	466	2.38	2	1.7	8.9	88	<0.1	0.4	0.2	24	1.06
1429009	Rock	2.54	0.301	31.8	61.6	10.0	58	0.2	3.0	4.8	476	2.29	2	1.3	9.3	76	0.1	0.3	<0.1	32	1.56
1429010	Rock	1.91	0.116	13.7	39.2	13.2	60	0.1	2.3	3.3	493	1.87	2	1.4	7.4	97	0.1	0.4	<0.1	31	1.39
1429011	Rock	2.89	0.036	4.7	28.1	15.2	57	0.1	1.5	2.7	384	1.51	1	1.2	8.6	116	0.2	0.3	<0.1	20	1.39
1429012	Rock	0.74	0.017	7.3	22.9	12.3	56	<0.1	1.1	2.3	322	1.53	2	1.5	8.5	108	0.1	0.5	<0.1	15	1.15
1429013	Rock	1.23	0.027	9.2	46.0	15.2	62	0.1	1.7	3.2	352	1.72	2	2.2	8.0	119	0.1	0.4	<0.1	14	1.12
1429014	Rock	1.44	0.020	8.4	55.1	16.8	118	0.2	1.8	3.2	353	1.61	2	2.3	8.7	123	0.2	4.5	<0.1	15	1.16



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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
1428985	Rock Pulp	0.064	8.5	60	1.41	467	0.400	6.46	2.469	0.86	19.8	26.1	17	0.9	14.3	3.9	0.3	<1	15	14.7	<0.1	
1428986	Rock	0.019	18.1	6	0.21	805	0.114	6.46	2.858	2.22	1.6	14.4	33	3.8	11.0	6.8	0.5	1	4	5.0	0.1	
1428987	Rock	0.017	19.0	7	0.20	813	0.107	6.82	3.113	2.24	1.6	15.2	34	1.9	11.8	6.4	0.5	1	4	4.5	<0.1	
1428988	Rock	0.020	21.0	7	0.20	861	0.116	6.84	3.091	2.24	1.4	13.3	38	1.7	11.5	6.4	0.5	2	4	4.0	<0.1	
1428989	Rock	0.019	19.3	7	0.17	903	0.095	6.59	3.069	2.31	1.5	15.8	34	1.8	10.4	5.9	0.4	1	4	4.0	<0.1	
1428990	Rock	0.024	21.9	9	0.10	1078	0.111	5.80	2.187	3.97	4.1	13.8	41	3.9	5.4	5.7	0.4	<1	3	4.2	<0.1	
1428991	Rock	0.023	25.6	9	0.13	1162	0.127	6.34	2.366	3.68	4.8	15.9	44	4.1	9.2	6.9	0.5	2	4	3.8	<0.1	
1428992	Rock	0.019	25.4	7	0.10	1179	0.114	6.47	2.515	3.48	2.8	14.7	45	4.9	9.3	6.5	0.4	1	4	2.5	<0.1	
1428993	Rock	0.016	29.1	7	0.09	1084	0.093	6.36	2.125	3.78	3.0	15.5	49	2.4	7.8	5.7	0.4	<1	4	2.6	<0.1	
1428994	Rock	0.019	24.8	6	0.10	946	0.112	6.41	2.411	3.24	3.4	12.6	42	1.9	7.3	6.3	0.5	1	4	3.5	<0.1	
1428995	Rock	0.019	24.8	7	0.11	907	0.114	6.52	2.374	3.22	3.5	12.8	43	2.1	7.3	6.4	0.5	1	4	3.8	<0.1	
1428996	Rock	0.025	23.6	10	0.13	1242	0.102	6.03	2.379	3.19	4.5	14.2	40	2.4	6.7	6.1	0.7	1	4	3.5	<0.1	
1428997	Rock	0.039	14.5	7	0.10	1134	0.124	6.73	2.541	3.63	3.8	12.9	26	4.4	9.0	7.5	0.5	1	5	3.2	<0.1	
1428998	Rock	0.074	20.0	7	0.12	1410	0.141	6.83	2.452	3.76	2.9	12.2	36	4.6	12.9	7.3	0.5	1	5	3.3	<0.1	
1428999	Rock	0.030	22.5	7	0.23	1164	0.158	6.79	2.257	3.10	3.9	13.4	40	5.7	8.8	6.3	0.5	1	7	4.4	<0.1	
1429000	Rock	0.023	22.9	8	0.20	1027	0.133	6.60	2.692	2.68	3.6	13.7	42	2.0	11.2	6.3	0.5	1	6	3.8	<0.1	
1429001	Rock	0.039	21.8	8	0.31	1149	0.189	6.94	2.532	2.91	5.2	12.4	39	4.3	12.7	7.3	0.6	2	7	6.7	0.1	
1429002	Rock	0.022	22.5	8	0.17	778	0.125	6.40	2.941	1.91	2.8	18.0	40	1.7	13.2	7.9	0.6	<1	5	6.8	<0.1	
1429003	Rock	0.024	25.8	8	0.15	946	0.125	6.54	2.915	2.00	3.1	16.8	46	1.0	11.9	7.0	0.5	1	5	5.3	<0.1	
1429004	Rock	0.018	26.7	7	0.14	1003	0.105	6.36	3.109	2.32	3.7	15.7	48	1.2	8.1	6.4	0.4	<1	4	3.8	<0.1	
1429005	Rock Pulp	0.066	9.6	63	1.40	499	0.388	6.73	2.447	0.93	0.9	27.8	19	2.1	15.3	4.1	0.2	<1	15	15.5	<0.1	
1429006	Rock	0.050	28.2	16	0.50	1038	0.138	7.32	3.158	3.07	6.9	17.8	50	10.9	8.2	7.6	0.5	1	6	4.3	0.7	
1429007	Rock	0.018	29.9	8	0.28	1212	0.126	7.29	3.023	3.32	4.5	16.8	51	3.8	8.7	8.0	0.6	2	5	3.9	0.7	
1429008	Rock	0.028	27.8	8	0.24	805	0.169	6.86	2.547	2.35	3.1	21.6	48	3.5	10.6	8.7	0.6	2	6	4.6	<0.1	
1429009	Rock	0.028	21.4	12	0.39	803	0.110	6.54	3.162	3.01	7.3	21.9	40	6.9	6.0	6.1	0.4	<1	5	2.9	0.2	
1429010	Rock	0.025	18.8	9	0.25	986	0.117	6.15	3.147	2.73	6.0	16.5	34	4.6	5.9	6.3	0.4	1	4	2.7	<0.1	
1429011	Rock	0.021	21.3	7	0.22	1011	0.110	6.34	2.885	2.56	3.4	17.2	37	2.5	7.3	6.3	0.4	1	4	4.3	<0.1	
1429012	Rock	0.020	22.4	5	0.17	794	0.098	6.38	2.841	2.43	2.2	17.6	41	2.5	7.7	5.3	0.4	1	3	3.6	<0.1	
1429013	Rock	0.016	21.2	6	0.20	859	0.100	6.92	2.860	2.82	2.6	17.3	37	3.1	6.9	5.8	0.5	1	4	3.2	<0.1	
1429014	Rock	0.019	23.9	4	0.21	973	0.103	6.58	2.597	2.94	3.2	18.1	42	3.2	7.0	6.1	0.5	1	4	6.4	<0.1	



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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
1428985	Rock Pulp	15.9	0.8	<0.05	<0.005	<1	<0.5	<0.5
1428986	Rock	76.5	0.4	0.06	<0.005	<1	<0.5	0.5
1428987	Rock	76.1	0.4	0.05	<0.005	<1	<0.5	0.5
1428988	Rock	80.9	0.4	<0.05	<0.005	<1	<0.5	0.5
1428989	Rock	70.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
1428990	Rock	95.4	0.4	0.08	<0.005	<1	<0.5	0.6
1428991	Rock	98.6	0.4	0.06	<0.005	<1	<0.5	0.7
1428992	Rock	98.3	0.4	0.09	<0.005	<1	<0.5	0.6
1428993	Rock	96.5	0.5	<0.05	<0.005	<1	<0.5	0.6
1428994	Rock	84.1	0.3	<0.05	<0.005	<1	<0.5	<0.5
1428995	Rock	83.6	0.4	0.06	<0.005	<1	<0.5	0.5
1428996	Rock	78.4	0.5	0.06	<0.005	<1	<0.5	0.6
1428997	Rock	89.4	0.3	0.06	<0.005	<1	<0.5	0.5
1428998	Rock	98.7	0.4	<0.05	<0.005	<1	<0.5	0.7
1428999	Rock	104.2	0.4	0.06	<0.005	<1	<0.5	0.7
1429000	Rock	85.7	0.4	0.05	<0.005	<1	<0.5	0.5
1429001	Rock	98.3	0.4	<0.05	<0.005	<1	<0.5	0.7
1429002	Rock	63.5	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429003	Rock	69.1	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429004	Rock	65.0	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429005	Rock Pulp	20.7	0.8	0.08	<0.005	<1	<0.5	<0.5
1429006	Rock	86.6	0.6	0.08	<0.005	<1	<0.5	0.6
1429007	Rock	85.7	0.6	<0.05	0.025	<1	<0.5	0.5
1429008	Rock	82.6	0.5	<0.05	0.005	<1	<0.5	0.5
1429009	Rock	66.4	0.7	0.06	0.005	<1	<0.5	0.5
1429010	Rock	63.8	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429011	Rock	65.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429012	Rock	69.7	0.5	<0.05	<0.005	<1	<0.5	0.5
1429013	Rock	77.5	0.5	0.06	<0.005	<1	<0.5	0.5
1429014	Rock	78.8	0.6	<0.05	<0.005	<1	<0.5	0.6



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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	
1429015	Rock	2.02	0.042	8.2	61.8	14.7	57	0.1	1.9	3.2	349	1.68	1	1.9	8.4	118	0.2	0.5	<0.1	15	1.13
1429016	Rock	1.29	0.030	6.3	41.9	13.8	57	0.1	1.6	2.7	329	1.52	1	1.8	8.7	113	<0.1	0.5	<0.1	16	1.06
1429017	Rock	1.70	0.027	8.2	38.2	15.0	70	0.1	1.7	3.1	459	1.81	2	1.7	9.0	116	0.2	0.6	<0.1	18	1.18
1429018	Rock	2.99	0.020	8.6	36.1	18.9	66	<0.1	2.6	2.9	458	1.72	2	1.6	9.4	113	<0.1	0.4	0.2	17	1.15
1429019	Rock	4.58	0.104	9.9	38.9	15.3	64	0.1	1.6	2.9	451	1.83	<1	1.5	9.2	105	0.1	0.8	0.2	19	1.08
1429020	Rock	2.35	0.281	10.7	54.2	16.5	69	0.2	2.9	3.9	483	1.85	2	1.9	9.4	108	0.3	1.0	0.2	21	0.96
1429021	Rock	1.54	0.496	4.4	37.0	12.6	93	0.2	2.3	1.8	251	1.47	<1	1.0	7.2	94	0.4	0.9	0.1	20	0.43
1429022	Rock	2.29	0.106	3.1	27.0	9.4	59	<0.1	1.4	2.4	247	1.57	<1	1.0	6.7	90	0.5	0.5	<0.1	23	0.91
1429023	Rock	1.56	0.033	3.9	42.2	9.8	54	0.1	1.4	3.1	391	2.12	<1	1.3	6.3	94	0.1	0.9	0.2	28	1.27
1429024	Rock	1.98	0.033	6.0	70.9	10.2	49	0.1	1.2	3.2	393	2.19	<1	1.2	7.6	152	0.1	0.9	0.2	23	0.85
1429025	Rock Pulp	0.06	<0.005	2.2	24.0	5.3	60	0.3	32.0	14.5	834	3.67	4	0.5	1.5	292	0.1	0.8	<0.1	131	2.86
1429026	Rock	2.51	0.099	3.5	36.8	10.2	39	0.1	1.9	2.1	282	1.55	<1	0.9	7.8	145	<0.1	0.4	0.1	16	0.86
1429027	Rock	0.71	0.070	3.3	39.5	24.5	44	0.1	5.0	2.1	272	1.39	1	0.9	7.4	94	<0.1	0.7	0.1	20	0.14
1429028	Rock	2.57	0.256	6.1	37.3	29.4	47	0.2	3.8	2.8	402	1.63	2	1.1	9.8	103	<0.1	0.7	0.2	23	0.20
1429029	Rock	2.21	0.463	3.9	52.1	21.4	53	0.2	1.5	2.4	394	1.90	1	1.0	8.0	109	0.1	1.2	<0.1	21	0.15
1429030	Rock	1.92	0.281	4.0	29.6	20.1	45	0.2	1.7	2.2	380	1.56	2	1.0	8.0	95	0.2	1.2	<0.1	21	0.28
1429031	Rock	1.69	0.052	3.9	30.6	18.7	54	0.1	1.4	2.7	368	1.68	1	1.0	7.9	97	<0.1	0.9	<0.1	19	0.28
1429032	Rock	1.72	0.008	2.8	42.2	17.0	57	<0.1	3.4	3.6	386	1.78	2	1.0	8.9	134	0.1	1.1	0.1	28	0.67
1429033	Rock	2.20	0.059	4.3	45.5	18.4	57	0.1	2.0	2.3	302	1.66	<1	0.9	11.1	141	<0.1	1.5	0.1	16	0.25
1429034	Rock	2.21	0.009	4.9	62.4	20.2	54	0.1	2.1	2.2	399	1.90	<1	1.1	10.9	99	0.2	0.8	0.2	18	0.48
1429035	Rock	2.02	0.020	5.5	64.0	21.1	65	0.2	2.4	1.9	385	1.85	2	1.1	11.9	103	0.2	0.7	<0.1	20	0.48
1429036	Rock	2.12	1.053	8.3	74.8	16.2	104	1.0	1.2	5.0	652	3.14	1	1.2	7.5	69	<0.1	0.9	0.2	64	0.85
1429037	Rock	1.81	0.215	3.9	30.2	9.5	64	0.2	1.7	2.4	287	1.83	<1	0.7	8.7	88	0.2	0.8	<0.1	24	0.24
1429038	Rock	1.81	0.722	92.3	69.1	74.8	81	1.1	4.6	6.7	775	2.40	2	0.8	6.9	93	0.3	1.8	1.9	52	0.37
1429039	Rock	0.69	0.282	31.0	70.5	37.3	129	0.5	8.5	11.2	1012	3.51	3	1.1	4.3	114	0.4	1.6	0.7	104	1.90
1429040	Rock	1.78	0.290	7.3	62.1	37.7	104	0.4	5.0	7.1	710	2.64	2	1.0	4.9	103	0.3	1.1	0.4	69	1.50
1429041	Rock	2.12	0.129	4.2	68.7	35.4	61	0.3	1.5	2.5	271	1.61	<1	0.9	7.0	168	0.2	0.9	0.3	20	0.78
1429042	Rock	2.39	0.287	4.3	72.5	18.7	48	0.4	1.3	2.1	247	1.50	1	0.9	7.1	113	0.2	0.5	0.2	18	0.56
1429043	Rock	2.18	0.071	3.1	48.9	12.9	41	0.2	1.6	2.3	283	1.55	2	1.3	7.6	146	0.1	0.5	<0.1	16	1.17
1429044	Rock	1.18	0.024	2.2	34.7	11.2	39	0.1	1.7	3.5	410	1.64	2	1.0	7.2	152	<0.1	0.3	0.2	21	1.30



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

# WHI15000216.1

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	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1429015	Rock	0.016	22.1	8	0.20	953	0.102	6.45	2.534	2.88	3.2	18.5	39	3.1	7.1	6.2	0.5	1	4	3.7	<0.1	
1429016	Rock	0.017	22.0	7	0.19	948	0.107	6.12	2.353	2.70	3.2	19.3	39	3.3	7.3	6.4	0.5	1	4	4.7	<0.1	
1429017	Rock	0.021	22.3	8	0.23	976	0.125	6.38	2.328	2.84	3.2	18.9	40	3.9	8.2	7.2	0.6	1	4	5.1	<0.1	
1429018	Rock	0.020	24.0	5	0.25	1110	0.111	6.46	2.221	2.78	3.5	20.1	47	5.9	8.2	7.1	0.5	<1	4	5.8	<0.1	
1429019	Rock	0.021	23.0	6	0.23	1064	0.108	6.39	1.869	3.20	4.3	17.8	45	3.0	7.4	6.6	0.5	2	4	6.8	<0.1	
1429020	Rock	0.022	26.4	5	0.22	1104	0.106	6.41	1.715	3.31	4.9	17.7	50	3.2	8.3	6.6	0.5	2	4	7.4	<0.1	
1429021	Rock	0.019	21.3	3	0.14	1248	0.095	5.83	2.357	3.35	3.7	14.9	43	2.0	5.4	6.1	0.4	3	3	4.2	<0.1	
1429022	Rock	0.029	21.8	2	0.20	925	0.113	6.26	2.476	2.90	3.3	16.1	43	1.5	6.8	5.4	0.4	1	4	5.0	<0.1	
1429023	Rock	0.034	18.8	3	0.26	849	0.149	6.34	2.382	2.56	2.7	17.2	39	4.3	8.8	6.5	0.5	2	6	6.8	<0.1	
1429024	Rock	0.025	20.6	2	0.24	1074	0.124	6.31	2.355	2.67	3.3	17.1	41	7.4	8.2	6.9	0.5	1	5	6.2	<0.1	
1429025	Rock Pulp	0.065	8.4	52	1.42	515	0.377	6.35	2.488	0.90	20.9	28.2	18	0.9	14.3	4.2	0.3	<1	15	17.7	<0.1	
1429026	Rock	0.018	20.5	3	0.16	950	0.086	6.31	2.587	2.53	2.7	16.8	40	3.0	7.0	5.8	0.4	1	4	5.6	<0.1	
1429027	Rock	0.014	20.1	7	0.10	965	0.096	6.20	2.523	3.70	3.3	15.7	42	2.5	5.4	5.5	0.4	1	3	2.7	<0.1	
1429028	Rock	0.020	26.6	5	0.11	1159	0.113	6.65	2.621	3.87	5.3	20.1	51	3.8	8.3	7.3	0.5	<1	4	4.0	<0.1	
1429029	Rock	0.026	20.4	3	0.12	1499	0.107	6.72	2.264	4.26	4.0	17.3	41	3.1	8.1	7.1	0.5	2	4	2.8	<0.1	
1429030	Rock	0.020	22.5	3	0.09	1148	0.107	6.34	2.465	3.80	5.1	16.3	45	1.6	7.1	6.2	0.5	<1	4	2.8	<0.1	
1429031	Rock	0.021	21.3	3	0.14	752	0.102	5.94	2.061	3.24	3.5	15.7	42	1.5	7.4	6.7	0.5	2	4	3.8	<0.1	
1429032	Rock	0.027	23.1	7	0.24	989	0.121	6.94	2.259	3.42	2.2	17.4	45	2.3	9.4	7.0	0.6	1	6	3.4	<0.1	
1429033	Rock	0.019	27.9	4	0.11	1160	0.100	6.46	2.411	3.58	1.9	18.9	58	3.7	8.9	7.1	0.5	2	5	2.2	<0.1	
1429034	Rock	0.015	27.3	4	0.09	1060	0.091	6.13	2.544	3.36	2.9	31.0	55	6.6	8.1	5.9	0.3	1	4	2.5	<0.1	
1429035	Rock	0.018	29.4	4	0.09	1104	0.103	6.09	2.540	3.56	3.4	30.5	58	6.9	7.9	5.9	0.4	2	4	2.5	<0.1	
1429036	Rock	0.045	23.1	3	0.39	1310	0.234	6.93	1.961	3.84	4.7	19.4	48	11.0	10.1	7.5	0.4	4	9	7.5	<0.1	
1429037	Rock	0.022	22.1	3	0.25	756	0.115	6.31	2.412	2.62	3.8	16.8	45	2.5	6.7	6.5	0.5	3	5	4.9	<0.1	
1429038	Rock	0.024	18.4	10	0.22	885	0.110	6.19	2.539	2.76	6.0	15.3	38	3.1	6.9	4.3	0.3	2	7	5.9	<0.1	
1429039	Rock	0.031	13.4	22	0.89	921	0.183	6.99	1.960	3.92	4.9	12.0	28	2.1	7.1	3.8	0.3	2	15	11.1	<0.1	
1429040	Rock	0.025	13.6	14	0.64	957	0.163	6.41	2.126	3.33	4.8	12.6	28	1.8	6.7	4.9	0.4	2	10	6.3	<0.1	
1429041	Rock	0.015	18.6	4	0.16	1026	0.096	6.65	2.717	3.03	3.8	16.3	36	1.0	7.0	5.9	0.4	<1	4	3.4	<0.1	
1429042	Rock	0.016	19.3	3	0.13	944	0.085	5.99	2.640	2.76	3.5	14.3	38	1.6	6.6	5.6	0.4	1	3	2.8	<0.1	
1429043	Rock	0.016	21.2	3	0.16	1031	0.088	6.64	3.111	2.24	2.5	18.2	43	1.2	8.9	6.6	0.5	1	4	3.8	<0.1	
1429044	Rock	0.015	17.7	4	0.27	1142	0.093	6.65	2.955	2.25	1.4	15.7	35	2.0	8.9	5.5	0.4	2	4	3.9	<0.1	



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Project: MPA

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# CERTIFICATE OF ANALYSIS

WHI15000216.1

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
1429015	Rock	76.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429016	Rock	72.6	0.7	<0.05	<0.005	<1	<0.5	0.5
1429017	Rock	78.5	0.6	<0.05	<0.005	<1	<0.5	0.5
1429018	Rock	87.5	0.5	<0.05	<0.005	<1	<0.5	0.7
1429019	Rock	86.5	0.5	0.11	<0.005	<1	<0.5	0.7
1429020	Rock	94.2	0.4	<0.05	<0.005	<1	<0.5	0.8
1429021	Rock	86.3	0.3	<0.05	<0.005	<1	0.6	0.6
1429022	Rock	84.1	0.4	<0.05	<0.005	<1	<0.5	0.6
1429023	Rock	85.7	0.5	0.14	<0.005	<1	<0.5	0.7
1429024	Rock	86.7	0.6	0.10	<0.005	<1	<0.5	0.6
1429025	Rock Pulp	16.9	0.9	0.09	<0.005	<1	<0.5	<0.5
1429026	Rock	76.2	0.5	<0.05	<0.005	<1	<0.5	0.5
1429027	Rock	97.6	0.4	<0.05	<0.005	<1	<0.5	0.7
1429028	Rock	103.0	0.6	<0.05	<0.005	<1	<0.5	0.7
1429029	Rock	125.7	0.6	0.05	<0.005	<1	<0.5	0.9
1429030	Rock	98.4	0.4	0.06	<0.005	<1	<0.5	0.6
1429031	Rock	98.9	0.5	<0.05	<0.005	<1	<0.5	0.7
1429032	Rock	107.8	0.5	<0.05	<0.005	<1	<0.5	0.7
1429033	Rock	104.3	0.4	<0.05	<0.005	<1	<0.5	0.7
1429034	Rock	87.5	1.2	0.11	<0.005	<1	<0.5	0.5
1429035	Rock	93.7	0.9	<0.05	<0.005	<1	<0.5	0.7
1429036	Rock	134.4	0.4	0.05	<0.005	<1	0.6	1.0
1429037	Rock	84.1	0.5	0.08	<0.005	<1	<0.5	<0.5
1429038	Rock	82.7	0.5	<0.05	<0.005	<1	1.5	0.7
1429039	Rock	109.2	0.3	0.19	<0.005	<1	1.2	0.8
1429040	Rock	89.3	0.5	<0.05	<0.005	<1	<0.5	0.8
1429041	Rock	79.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
1429042	Rock	72.8	0.5	<0.05	<0.005	<1	<0.5	0.5
1429043	Rock	70.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
1429044	Rock	77.3	0.5	<0.05	<0.005	<1	<0.5	0.6



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# CERTIFICATE OF ANALYSIS

# WHI15000216.1

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	
1429045	Rock Pulp	0.06	1.470	10.1	52.9	9.0	69	0.3	45.0	12.1	869	4.32	8	0.6	2.0	285	<0.1	2.3	0.1	129	2.52
1429046	Rock	1.12	0.007	2.1	40.7	10.5	74	<0.1	2.2	4.6	606	2.41	3	1.5	5.6	149	0.2	0.3	0.1	31	1.90
1429047	Rock	1.35	0.012	3.3	73.5	11.0	120	0.2	3.5	7.8	1019	4.14	1	1.0	5.0	140	0.4	0.4	1.1	62	2.57
1429048	Rock	1.27	0.009	1.5	28.7	12.0	65	0.1	2.4	3.5	555	2.20	1	1.1	6.0	162	0.1	0.2	0.4	26	1.66
1429049	Rock	1.28	0.024	2.9	14.3	10.6	40	0.1	1.3	3.8	345	1.83	2	1.4	6.7	157	0.2	0.2	0.2	21	1.39
1429050	Rock	0.97	0.018	2.4	52.9	10.4	80	<0.1	1.3	2.9	391	2.15	2	1.3	7.5	128	<0.1	0.4	<0.1	22	1.12
1429051	Rock	2.38	0.014	2.3	27.9	9.4	169	<0.1	0.8	3.9	678	2.30	2	1.2	7.2	124	0.7	0.4	0.2	23	1.18
1429052	Rock	1.34	1.717	10.6	54.6	9.7	95	0.3	1.5	3.0	486	1.76	4	1.2	6.0	93	0.2	0.6	0.2	22	1.05
1429053	Rock	1.33	1.053	12.5	63.9	112.5	66	0.4	1.4	1.5	188	1.08	2	0.7	3.3	106	0.2	1.1	0.6	19	0.39
1429054	Rock	1.58	0.638	8.8	52.1	40.9	57	0.2	3.4	2.2	245	1.24	1	1.0	6.5	90	0.2	1.1	0.4	20	0.55
1429055	Rock	1.80	0.406	4.8	37.8	24.9	135	0.1	1.4	2.8	608	1.86	1	1.1	7.4	130	0.6	0.6	0.2	23	1.08
1429056	Rock	1.47	0.188	2.1	50.0	14.8	83	0.1	1.4	3.1	566	1.87	<1	0.9	8.1	129	0.4	0.5	0.2	21	1.20
1429057	Rock	1.41	0.083	2.0	37.7	14.0	72	<0.1	1.1	3.3	488	2.05	2	1.0	7.5	128	0.2	0.4	0.3	22	1.47
1429058	Rock	1.98	0.108	2.6	33.9	21.1	87	<0.1	1.1	2.7	467	1.70	1	1.0	7.6	135	0.4	0.4	0.2	20	1.24
1429059	Rock	0.79	0.595	3.6	46.3	16.6	93	0.1	1.5	3.2	555	2.00	<1	1.4	8.0	122	0.3	0.5	0.2	30	1.28
1429060	Rock	1.57	0.232	2.6	35.8	15.1	76	0.1	1.1	3.7	627	2.44	1	1.2	6.9	131	0.2	0.5	0.4	32	1.64
1429061	Rock	1.76	0.316	4.1	41.1	12.4	60	0.3	1.1	3.0	453	1.95	1	1.4	7.9	108	0.2	0.5	0.2	24	1.33
1429062	Rock	1.90	0.228	55.9	47.2	17.0	67	0.3	4.3	4.7	444	2.56	2	1.3	8.6	86	0.1	1.2	0.9	44	0.31
1429063	Rock	3.35	0.138	23.8	42.5	11.3	26	0.2	3.5	2.8	254	1.26	2	0.6	8.7	81	<0.1	1.2	0.2	23	0.10
1429064	Rock	2.59	0.268	7.0	55.6	14.0	35	0.3	2.1	2.3	225	1.39	2	0.8	10.4	90	0.1	0.9	<0.1	20	0.13
1429065	Rock Pulp	0.07	<0.005	2.7	27.5	5.4	62	0.3	34.9	15.7	771	3.73	6	0.5	1.7	282	0.3	0.9	<0.1	134	2.85
1429066	Rock	2.08	0.111	8.0	93.9	13.3	42	0.3	1.6	3.3	368	1.59	1	0.9	8.6	88	0.1	0.7	0.3	20	0.43
1429067	Rock	2.12	0.023	4.3	53.6	13.4	41	0.1	1.9	2.5	331	1.54	2	1.1	9.9	108	<0.1	0.6	<0.1	16	0.67
1429068	Rock	2.84	0.052	6.5	76.5	13.3	66	0.2	1.6	2.4	306	1.29	2	0.8	9.3	91	0.2	0.8	<0.1	18	0.55
1429069	Rock	1.82	0.026	4.3	81.4	12.5	129	0.2	1.9	2.4	338	1.83	3	0.8	8.6	102	0.5	0.9	<0.1	16	0.68
1429070	Rock	2.97	0.012	5.4	134.5	16.9	197	0.2	1.7	3.8	560	2.16	2	1.1	8.7	131	1.8	0.8	0.8	20	1.22
1429071	Rock	1.34	<0.005	7.9	48.8	22.9	149	0.1	1.8	2.8	552	1.85	2	2.5	10.5	180	0.8	0.8	0.4	15	1.34
1429072	Rock	0.91	0.009	6.1	45.8	15.9	136	0.1	1.4	2.3	345	1.64	1	1.0	8.4	153	0.7	0.6	<0.1	15	1.13
1429073	Rock	1.70	0.072	15.2	126.2	16.6	91	0.2	1.5	3.1	311	1.80	3	1.3	9.3	116	0.4	1.2	0.2	17	0.60
1429074	Rock	1.30	0.100	18.8	47.0	22.3	56	0.1	1.3	2.3	263	1.49	2	1.2	10.1	109	0.2	0.8	0.2	21	0.84





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Project: MPA

Report Date: October 27, 2015

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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
1429045	Rock Pulp	0.061	8.6	53	1.34	515	0.356	6.43	2.401	0.93	0.8	29.5	19	1.6	14.6	4.0	0.3	<1	15	16.2	<0.1	
1429046	Rock	0.017	15.2	7	0.50	1448	0.108	6.78	2.958	2.42	1.6	13.1	32	3.5	7.8	5.6	0.5	2	6	3.4	<0.1	
1429047	Rock	0.020	14.9	14	1.04	1380	0.136	7.07	2.494	2.94	1.7	11.2	31	5.9	8.7	4.7	0.4	2	11	6.3	0.2	
1429048	Rock	0.018	16.9	6	0.41	1274	0.110	6.78	3.182	2.22	2.3	13.8	36	3.0	8.1	6.0	0.5	1	6	5.4	<0.1	
1429049	Rock	0.024	17.9	3	0.26	1050	0.111	6.80	3.181	2.18	2.0	15.9	37	1.6	9.5	6.3	0.4	1	5	4.2	<0.1	
1429050	Rock	0.016	21.2	3	0.23	952	0.106	6.60	2.669	2.96	3.3	15.8	42	7.1	7.6	6.1	0.4	2	4	3.5	<0.1	
1429051	Rock	0.029	19.8	3	0.29	1169	0.128	6.75	2.648	2.83	3.1	17.2	42	8.5	8.6	6.4	0.5	1	5	3.6	<0.1	
1429052	Rock	0.025	17.1	4	0.18	957	0.104	5.47	1.860	3.17	4.4	13.4	35	5.9	6.2	5.6	0.4	1	4	3.8	0.2	
1429053	Rock	0.011	10.9	2	0.09	2231	0.047	3.23	0.631	2.60	3.1	7.2	22	3.0	3.4	2.8	0.3	<1	2	5.8	0.2	
1429054	Rock	0.012	18.9	7	0.15	1007	0.077	4.54	1.541	2.90	2.6	13.6	32	3.3	5.0	3.7	0.3	<1	3	5.1	0.1	
1429055	Rock	0.023	19.0	5	0.23	973	0.123	5.77	2.300	2.50	2.7	16.1	35	5.3	8.1	5.4	0.4	<1	4	4.6	<0.1	
1429056	Rock	0.025	22.0	4	0.29	916	0.121	6.22	2.678	2.67	2.7	15.4	40	6.1	7.4	5.5	0.4	1	4	6.7	<0.1	
1429057	Rock	0.024	24.5	6	0.33	797	0.128	6.65	2.873	2.64	2.4	13.8	45	6.5	8.6	6.0	0.4	2	5	5.4	<0.1	
1429058	Rock	0.021	20.3	5	0.25	1055	0.111	6.44	2.802	2.84	2.4	13.6	38	6.5	7.9	5.8	0.4	1	4	3.8	<0.1	
1429059	Rock	0.023	21.0	6	0.32	963	0.132	6.62	2.854	2.96	4.2	16.8	39	7.1	8.1	6.1	0.5	1	5	3.9	<0.1	
1429060	Rock	0.048	19.9	6	0.41	683	0.200	6.64	2.729	2.74	3.2	13.5	39	4.7	9.9	6.1	0.4	1	6	5.0	<0.1	
1429061	Rock	0.033	21.6	6	0.31	630	0.147	6.15	2.578	2.75	4.0	15.1	40	4.1	8.6	5.8	0.4	1	5	4.3	<0.1	
1429062	Rock	0.029	29.7	10	0.18	734	0.159	6.40	2.836	2.33	6.8	18.7	58	3.0	7.0	8.0	0.5	1	5	5.2	<0.1	
1429063	Rock	0.013	22.4	6	0.07	1030	0.073	5.32	2.844	2.35	7.0	16.9	42	1.6	4.4	4.7	0.3	1	3	3.2	<0.1	
1429064	Rock	0.016	27.5	6	0.08	1274	0.098	5.72	2.669	3.52	5.1	19.5	49	2.4	5.7	6.5	0.4	<1	4	2.2	<0.1	
1429065	Rock Pulp	0.067	8.3	57	1.43	499	0.405	6.44	2.574	0.88	21.0	26.4	17	1.0	14.5	4.0	0.3	<1	15	16.3	<0.1	
1429066	Rock	0.022	20.4	6	0.08	1169	0.112	6.44	3.375	3.10	5.3	13.3	36	2.8	6.4	7.0	0.6	1	4	2.3	<0.1	
1429067	Rock	0.014	25.6	7	0.08	1338	0.095	6.37	2.822	3.10	3.9	18.7	46	1.9	6.9	6.0	0.4	1	3	3.1	<0.1	
1429068	Rock	0.014	26.2	6	0.05	1404	0.097	6.00	3.015	3.13	5.3	17.6	45	1.8	4.1	5.6	0.4	<1	3	2.1	<0.1	
1429069	Rock	0.020	25.1	<1	0.14	869	0.123	6.47	2.520	2.53	2.8	13.4	44	2.6	6.8	6.5	0.4	1	4	3.6	<0.1	
1429070	Rock	0.023	24.7	7	0.14	1087	0.139	7.46	2.994	2.47	3.7	14.6	43	4.3	8.5	7.4	0.5	2	5	3.6	<0.1	
1429071	Rock	0.022	27.2	7	0.16	1416	0.147	8.62	2.676	3.14	2.6	16.8	49	3.8	10.0	8.0	0.6	2	5	4.3	<0.1	
1429072	Rock	0.018	21.2	6	0.12	1025	0.118	6.70	2.679	2.66	2.9	13.4	38	2.5	7.4	6.3	0.4	1	4	6.5	<0.1	
1429073	Rock	0.016	25.4	6	0.11	991	0.110	6.72	2.709	3.08	4.3	16.6	44	2.9	6.3	6.5	0.5	1	4	5.4	<0.1	
1429074	Rock	0.015	24.4	5	0.11	1118	0.119	6.39	2.247	3.33	4.1	19.2	43	3.7	5.3	7.3	0.5	1	4	3.7	<0.1	



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

WHI15000216.1

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
1429045	Rock Pulp	20.3	1.2	0.06	<0.005	<1	<0.5	<0.5
1429046	Rock	76.7	0.4	0.05	<0.005	<1	<0.5	0.5
1429047	Rock	105.5	0.4	0.09	<0.005	<1	<0.5	0.9
1429048	Rock	75.1	0.5	0.05	<0.005	<1	<0.5	0.5
1429049	Rock	73.0	0.4	<0.05	<0.005	<1	<0.5	0.6
1429050	Rock	88.9	0.5	0.06	<0.005	<1	<0.5	0.7
1429051	Rock	94.3	0.5	0.37	<0.005	<1	<0.5	0.7
1429052	Rock	76.4	0.4	0.09	<0.005	<1	<0.5	0.5
1429053	Rock	53.6	0.3	0.11	<0.005	<1	<0.5	<0.5
1429054	Rock	62.4	0.4	0.05	<0.005	<1	<0.5	0.5
1429055	Rock	60.5	0.4	0.16	<0.005	<1	<0.5	<0.5
1429056	Rock	68.8	0.4	0.15	<0.005	<1	<0.5	<0.5
1429057	Rock	73.8	0.4	0.12	<0.005	<1	<0.5	0.6
1429058	Rock	74.6	0.4	0.10	<0.005	<1	<0.5	0.6
1429059	Rock	73.1	0.5	0.10	<0.005	<1	<0.5	0.5
1429060	Rock	76.0	0.4	0.09	<0.005	<1	<0.5	0.6
1429061	Rock	67.4	0.5	0.08	<0.005	<1	<0.5	0.5
1429062	Rock	57.2	0.5	0.05	<0.005	<1	0.6	<0.5
1429063	Rock	51.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429064	Rock	82.3	0.6	0.07	<0.005	<1	<0.5	0.6
1429065	Rock Pulp	13.5	0.8	<0.05	<0.005	<1	<0.5	<0.5
1429066	Rock	73.5	0.4	0.07	<0.005	<1	<0.5	<0.5
1429067	Rock	75.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429068	Rock	65.3	0.6	0.08	<0.005	<1	<0.5	<0.5
1429069	Rock	74.1	0.3	0.09	<0.005	<1	<0.5	<0.5
1429070	Rock	79.5	0.4	0.26	<0.005	<1	<0.5	0.5
1429071	Rock	103.3	0.5	0.15	<0.005	<1	<0.5	0.7
1429072	Rock	78.2	0.4	0.05	<0.005	<1	<0.5	0.5
1429073	Rock	82.1	0.5	0.06	<0.005	<1	<0.5	0.6
1429074	Rock	81.3	0.6	0.07	<0.005	<1	<0.5	0.6



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# CERTIFICATE OF ANALYSIS

# WHI15000216.1

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	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
1429075	Rock	2.24	0.165	25.2	47.5	23.3	55	0.1	1.4	2.5	272	1.58	2	1.2	9.3	105	0.1	0.9	0.2	22	0.82	
1429076	Rock	1.63	0.029	8.3	51.1	21.4	58	<0.1	1.0	1.9	324	1.34	2	0.8	8.8	131	<0.1	0.8	0.1	18	1.15	
1429077	Rock	2.18	0.085	20.7	63.3	31.2	82	0.2	2.4	3.0	436	1.68	2	2.4	9.9	136	0.3	0.9	0.3	23	1.65	
1429078	Rock	2.19	0.041	18.6	82.3	31.6	85	0.2	1.9	3.3	493	1.72	3	1.7	10.8	171	0.3	0.8	0.2	19	1.61	
1429079	Rock	1.27	0.013	5.1	60.3	24.8	66	0.1	1.7	2.7	341	1.65	3	1.5	8.6	135	0.2	0.6	0.3	18	1.14	
1429080	Rock	2.44	0.017	4.9	45.6	24.1	64	0.1	1.3	2.3	391	1.57	2	1.2	7.1	113	0.2	0.6	<0.1	20	1.45	
1429081	Rock	2.00	0.020	4.9	43.5	22.5	61	<0.1	1.4	2.8	349	1.52	2	1.2	10.4	144	0.2	0.5	<0.1	18	1.18	
1429082	Rock	2.39	0.015	6.9	39.1	18.4	53	<0.1	1.7	2.5	342	1.49	2	1.2	10.6	124	0.2	0.5	<0.1	17	1.08	
1429083	Rock	2.55	0.139	4.0	77.5	18.0	55	0.2	1.4	4.0	371	1.76	2	1.5	8.3	121	0.1	0.7	0.1	24	1.20	
1429084	Rock	2.02	2.273	4.9	70.4	15.4	64	0.8	1.6	3.6	457	1.93	3	2.8	8.7	107	0.2	0.9	0.1	26	1.17	
1429085	Rock Pulp	0.06	1.432	9.2	48.9	9.0	64	0.3	39.4	12.8	771	4.38	8	0.6	1.7	263	0.2	2.2	0.1	130	2.51	
1429086	Rock	2.08	4.428	7.4	65.7	16.9	77	0.7	1.6	3.8	427	2.11	3	1.6	8.8	120	0.1	0.7	0.1	34	1.27	
1429087	Rock	2.51	1.278	8.5	48.2	12.0	99	0.2	3.0	5.1	647	2.97	2	1.9	6.7	116	0.3	0.7	0.3	49	1.89	
1429088	Rock	2.16	0.357	3.5	34.1	14.7	75	0.2	1.3	2.5	456	1.93	2	2.0	9.1	139	0.3	0.7	0.2	20	1.41	
1429089	Rock	1.49	0.221	3.4	42.4	19.6	69	0.1	1.4	2.4	383	1.57	2	2.1	10.8	157	0.2	0.6	0.4	16	1.26	
1429090	Rock	1.96	0.169	5.9	47.4	19.5	68	0.1	1.7	2.7	353	1.68	3	2.1	11.5	159	0.1	0.8	0.3	16	1.45	
1429091	Rock	1.21	0.090	4.9	53.1	17.3	57	0.1	1.1	2.4	319	1.39	3	1.5	10.6	126	0.2	0.7	0.4	15	1.16	
1429092	Rock	2.24	0.392	6.3	51.5	17.2	71	0.2	1.6	2.9	406	1.69	3	1.4	10.6	126	0.3	0.8	0.3	21	1.28	
1429093	Rock	2.42	0.348	5.6	58.1	18.4	71	0.2	1.8	3.3	407	1.69	3	1.8	9.8	134	0.3	0.8	0.3	22	1.34	
1429094	Rock	2.49	0.083	5.2	77.6	16.5	72	0.2	1.6	3.0	398	1.73	3	1.4	9.3	134	0.2	0.7	0.2	18	1.38	
1429095	Rock	2.36	0.129	5.0	73.5	17.5	75	0.1	1.2	3.2	390	1.57	3	1.5	9.5	142	0.4	0.7	0.2	17	1.38	
1429096	Rock	1.45	0.093	14.3	72.9	18.1	77	0.2	1.1	2.6	338	1.58	3	1.5	9.2	142	0.3	0.8	0.1	15	1.13	
1429097	Rock	2.00	0.052	12.6	78.6	22.2	90	0.2	1.2	3.1	423	1.51	3	1.4	10.3	158	0.3	0.6	<0.1	13	1.40	
1429098	Rock	1.74	0.056	6.3	70.6	18.6	58	0.1	0.8	2.4	322	1.44	2	1.3	8.1	122	0.2	0.4	<0.1	11	1.08	
1429099	Rock	1.54	0.037	3.5	74.7	19.1	57	0.1	1.1	2.6	376	1.44	4	1.5	8.6	152	0.2	0.8	0.1	12	1.41	
1429100	Rock	1.89	0.902	22.6	67.8	16.1	37	0.5	1.3	2.5	278	1.29	5	1.0	6.6	113	<0.1	2.1	0.2	12	1.03	
1429101	Rock	3.06	2.214	20.0	78.3	59.5	45	0.7	8.8	3.5	1574	1.19	4	0.8	4.4	106	0.2	4.1	0.3	10	0.51	
1429102	Rock	3.52	2.092	49.3	103.8	71.0	55	0.8	4.5	4.6	2831	1.70	6	1.4	4.3	107	0.3	7.6	0.5	12	0.70	
1429103	Rock	1.66	0.564	16.1	72.7	29.1	69	0.3	2.3	3.3	1130	1.58	4	1.6	7.5	106	0.4	3.4	0.2	16	0.98	
1429104	Rock	1.85	0.521	8.2	58.0	19.2	63	0.2	1.6	2.7	693	1.63	4	1.5	7.5	107	0.2	2.1	0.1	15	1.03	



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# CERTIFICATE OF ANALYSIS

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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	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
1429075	Rock	0.017	25.1	5	0.11	1071	0.110	6.24	2.227	3.22	4.1	19.1	44	3.5	5.6	6.5	0.4	1	4	4.0	<0.1	
1429076	Rock	0.016	22.6	5	0.16	966	0.109	6.25	2.134	2.88	3.3	16.9	40	2.8	6.1	6.8	0.6	2	4	4.7	<0.1	
1429077	Rock	0.023	23.7	8	0.18	1021	0.142	8.40	2.657	2.64	4.9	19.7	43	3.4	8.7	8.6	0.7	1	5	13.0	<0.1	
1429078	Rock	0.021	25.4	9	0.19	1452	0.141	8.60	2.599	3.22	5.0	21.7	48	4.2	9.5	8.6	0.8	2	5	7.8	<0.1	
1429079	Rock	0.022	21.8	8	0.17	1177	0.108	6.48	2.635	2.91	2.7	16.6	40	2.6	7.5	6.2	0.5	2	4	4.2	<0.1	
1429080	Rock	0.017	17.8	6	0.16	840	0.106	6.29	2.692	2.58	3.8	14.5	33	2.2	6.9	6.2	0.5	1	4	4.2	<0.1	
1429081	Rock	0.025	26.1	7	0.17	1185	0.118	6.84	2.880	2.90	5.9	16.5	50	3.1	7.6	7.0	0.5	2	4	3.4	<0.1	
1429082	Rock	0.018	24.4	8	0.16	1081	0.105	6.49	2.948	2.95	5.8	18.3	45	2.1	6.8	6.3	0.4	1	4	2.9	<0.1	
1429083	Rock	0.025	20.8	8	0.22	1082	0.132	6.52	2.969	2.86	6.1	14.7	39	2.8	7.2	6.4	0.5	2	5	3.8	0.2	
1429084	Rock	0.029	20.5	7	0.23	1048	0.141	6.28	2.558	2.93	6.4	16.8	38	3.1	7.6	6.5	0.4	2	5	3.3	0.2	
1429085	Rock Pulp	0.063	8.2	59	1.35	493	0.384	6.38	2.425	0.89	0.9	27.5	17	2.0	14.4	4.1	0.2	<1	15	16.0	<0.1	
1429086	Rock	0.030	23.2	7	0.29	1353	0.163	7.08	3.151	2.63	7.4	18.5	44	6.5	7.2	7.7	0.5	2	6	3.5	0.3	
1429087	Rock	0.044	17.6	11	0.49	987	0.207	6.73	2.335	3.04	5.7	15.2	34	8.3	9.5	7.5	0.6	2	7	6.2	0.1	
1429088	Rock	0.024	23.0	7	0.27	955	0.146	7.42	2.806	2.71	3.9	18.3	44	8.9	9.6	7.7	0.6	2	5	4.0	<0.1	
1429089	Rock	0.020	27.3	7	0.21	1123	0.124	7.65	2.898	2.91	6.5	18.9	50	5.9	8.4	7.7	0.6	2	5	4.1	<0.1	
1429090	Rock	0.023	28.2	9	0.23	1073	0.129	8.01	2.793	2.89	4.9	20.0	52	5.4	9.0	7.3	0.6	2	5	5.2	<0.1	
1429091	Rock	0.014	28.0	6	0.18	1110	0.097	6.90	2.564	2.94	3.2	17.3	52	3.1	8.0	5.9	0.5	<1	4	4.4	<0.1	
1429092	Rock	0.021	25.4	9	0.22	1101	0.122	7.20	2.620	2.90	5.4	19.2	47	3.6	7.9	6.9	0.5	1	5	4.3	<0.1	
1429093	Rock	0.022	23.2	9	0.23	1119	0.128	7.21	2.709	2.84	5.4	18.1	45	3.1	7.8	7.0	0.5	1	5	4.9	<0.1	
1429094	Rock	0.020	22.7	8	0.20	1096	0.118	7.35	2.865	2.79	4.2	16.8	43	2.4	7.7	6.7	0.5	2	4	4.3	<0.1	
1429095	Rock	0.022	24.1	8	0.20	1142	0.125	7.89	2.783	2.76	4.7	18.3	45	2.5	7.6	7.2	0.6	1	4	4.8	<0.1	
1429096	Rock	0.018	24.4	7	0.19	1183	0.116	6.93	2.619	2.89	3.9	17.3	45	2.3	7.2	6.6	0.5	1	4	4.1	<0.1	
1429097	Rock	0.019	25.3	6	0.22	1301	0.120	7.89	2.574	2.78	3.7	19.8	48	2.3	8.8	7.1	0.5	2	4	5.2	<0.1	
1429098	Rock	0.015	18.8	6	0.18	984	0.087	5.74	2.515	2.62	2.6	15.5	37	1.5	6.7	5.3	0.4	2	3	3.9	<0.1	
1429099	Rock	0.015	19.7	6	0.22	1014	0.096	6.66	2.687	2.72	3.6	17.7	39	1.4	7.3	5.9	0.5	1	4	4.8	<0.1	
1429100	Rock	0.013	16.1	5	0.14	800	0.076	4.95	1.714	3.36	4.8	14.3	31	1.4	5.1	4.9	0.4	<1	3	4.7	0.2	
1429101	Rock	0.010	12.4	6	0.09	840	0.051	3.16	0.715	1.69	3.3	9.4	23	1.2	3.9	3.1	0.2	<1	2	11.0	0.2	
1429102	Rock	0.012	12.2	6	0.12	1439	0.054	3.29	0.858	1.56	3.9	9.0	23	1.6	5.3	3.2	0.2	1	2	9.8	0.1	
1429103	Rock	0.016	19.6	6	0.18	1124	0.095	5.64	2.182	2.41	3.7	12.6	36	1.9	5.8	5.4	0.4	1	3	9.6	<0.1	
1429104	Rock	0.017	20.3	7	0.19	907	0.097	5.84	2.445	2.41	2.9	13.2	38	2.0	5.9	5.7	0.4	1	4	8.8	<0.1	



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Project: MPA

Report Date: October 27, 2015

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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
1429075	Rock	76.5	0.6	0.06	<0.005	<1	<0.5	0.5
1429076	Rock	73.6	0.5	0.06	<0.005	<1	<0.5	0.5
1429077	Rock	76.2	0.6	0.07	<0.005	<1	<0.5	0.6
1429078	Rock	92.4	0.6	0.11	<0.005	<1	<0.5	0.7
1429079	Rock	78.1	0.5	0.07	<0.005	<1	<0.5	0.5
1429080	Rock	65.2	0.4	0.06	<0.005	<1	<0.5	<0.5
1429081	Rock	77.5	0.5	0.07	<0.005	<1	<0.5	<0.5
1429082	Rock	75.2	0.6	<0.05	<0.005	<1	<0.5	<0.5
1429083	Rock	72.6	0.5	0.06	<0.005	<1	<0.5	<0.5
1429084	Rock	77.9	0.5	<0.05	<0.005	<1	0.9	0.6
1429085	Rock Pulp	15.8	1.0	0.05	<0.005	<1	<0.5	<0.5
1429086	Rock	75.4	0.6	0.07	<0.005	<1	5.1	0.5
1429087	Rock	87.6	0.5	0.08	<0.005	<1	0.8	0.7
1429088	Rock	80.2	0.6	0.11	<0.005	<1	<0.5	0.6
1429089	Rock	86.0	0.6	0.11	<0.005	<1	<0.5	0.7
1429090	Rock	85.0	0.6	0.06	<0.005	<1	<0.5	0.6
1429091	Rock	82.8	0.6	<0.05	<0.005	<1	<0.5	0.6
1429092	Rock	79.2	0.6	0.08	<0.005	<1	<0.5	0.6
1429093	Rock	80.1	0.5	<0.05	<0.005	<1	<0.5	0.6
1429094	Rock	79.6	0.6	0.07	<0.005	<1	<0.5	0.5
1429095	Rock	83.9	0.6	0.11	<0.005	<1	<0.5	0.6
1429096	Rock	83.3	0.4	<0.05	0.005	<1	<0.5	0.6
1429097	Rock	90.7	0.6	0.06	<0.005	<1	<0.5	0.6
1429098	Rock	68.8	0.5	<0.05	<0.005	<1	<0.5	0.5
1429099	Rock	78.9	0.5	<0.05	<0.005	<1	<0.5	0.6
1429100	Rock	69.5	0.4	<0.05	0.009	<1	<0.5	0.5
1429101	Rock	40.8	0.3	<0.05	<0.005	<1	<0.5	0.6
1429102	Rock	41.5	0.2	<0.05	<0.005	<1	<0.5	0.9
1429103	Rock	67.1	0.4	<0.05	<0.005	<1	<0.5	0.7
1429104	Rock	67.4	0.5	0.07	<0.005	<1	<0.5	0.6



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	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	%
		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
1429105	Rock	2.20	0.102	4.9	56.9	16.6	69	0.2	1.2	2.4	638	1.50	3	1.6	7.9	113	0.3	2.2	0.1	12	1.16	
1429106	Rock	2.34	0.159	5.7	74.9	14.4	117	0.3	1.1	2.3	438	1.51	3	1.5	8.1	105	0.5	1.3	0.2	12	0.97	
1429107	Rock	0.87	0.154	10.1	44.8	9.3	64	0.1	13.3	4.2	456	1.81	3	1.1	8.8	79	0.2	1.6	0.2	28	0.16	
1429108	Rock	2.53	0.141	10.2	66.3	8.5	106	0.2	3.7	5.7	710	2.88	5	1.4	8.7	89	0.3	2.0	0.4	37	0.35	
1429109	Rock	1.72	0.323	30.4	62.4	9.4	63	0.1	17.2	3.9	511	2.12	6	1.3	8.6	76	0.2	1.9	<0.1	33	0.14	
1429110	Rock	4.15	2.241	93.2	80.2	38.9	60	1.1	6.5	3.3	221	1.74	8	1.4	10.5	126	0.2	4.5	0.6	23	0.07	
1429111	Rock	1.83	0.232	9.1	25.8	11.8	39	0.2	1.6	1.3	230	1.01	2	1.0	12.1	73	0.2	1.3	<0.1	14	0.10	
1429112	Rock	2.18	0.042	8.9	32.9	11.8	67	<0.1	1.4	2.5	318	1.78	3	1.1	9.8	89	0.3	1.7	<0.1	25	0.20	
1429113	Rock	1.74	0.074	7.8	40.5	9.6	42	<0.1	1.3	2.5	304	1.67	2	1.0	10.6	79	0.1	1.4	<0.1	27	0.20	
1429114	Rock	1.82	0.557	6.0	25.6	18.6	50	0.2	2.1	3.2	324	1.83	1	1.0	8.5	74	<0.1	1.1	0.1	32	0.29	
1429115	Rock	2.00	0.950	6.2	27.9	21.5	53	0.2	2.4	3.0	321	1.88	2	1.1	8.3	72	<0.1	1.0	<0.1	31	0.25	
1429116	Rock	2.07	0.062	3.6	31.9	12.8	61	<0.1	1.8	2.3	243	1.61	2	0.8	9.0	93	0.2	1.1	<0.1	21	0.36	
1429117	Rock	1.19	0.066	5.2	111.9	14.5	52	0.2	1.5	3.3	209	1.69	2	0.8	8.9	103	0.1	1.2	0.1	25	0.17	
1429118	Rock	1.33	0.010	6.6	86.8	11.6	111	0.2	1.0	5.9	584	3.51	2	1.6	7.4	98	0.2	1.4	0.3	48	1.06	
1429119	Rock	1.65	0.009	5.1	44.0	13.5	77	<0.1	1.4	3.5	471	2.08	<1	1.1	8.6	130	0.2	0.8	<0.1	25	1.28	
1429120	Rock	1.68	0.009	3.1	70.3	11.3	70	<0.1	1.2	3.6	380	1.79	2	1.2	8.4	115	<0.1	0.7	<0.1	18	1.21	
1429121	Rock	1.91	0.006	3.9	53.1	13.3	69	0.1	1.3	2.8	355	1.71	3	1.1	8.2	105	0.2	1.1	<0.1	16	0.97	
1429122	Rock	1.83	0.005	5.0	74.2	22.8	71	0.1	1.3	2.8	344	1.50	2	1.2	9.0	123	0.3	1.1	<0.1	14	0.93	



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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
		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
1429105	Rock	0.017	21.6	6	0.21	876	0.099	6.41	2.572	2.29	2.4	11.8	41	1.9	5.8	6.0	0.4	2	4	10.5	<0.1
1429106	Rock	0.014	22.3	6	0.19	912	0.086	5.70	2.486	2.44	2.2	12.2	42	1.5	5.9	5.2	0.4	1	3	10.0	<0.1
1429107	Rock	0.030	23.8	11	0.10	524	0.154	5.48	3.275	2.15	3.9	23.4	47	1.6	5.5	6.5	0.5	<1	5	3.5	<0.1
1429108	Rock	0.064	23.9	7	0.18	585	0.210	6.45	3.036	2.46	4.5	21.5	48	2.6	11.6	7.8	0.7	2	7	8.6	<0.1
1429109	Rock	0.040	23.2	10	0.07	597	0.147	5.21	2.290	4.42	8.6	18.5	44	2.2	6.9	6.6	0.5	<1	5	3.4	<0.1
1429110	Rock	0.018	27.6	7	0.04	1015	0.085	5.23	1.566	4.89	9.3	27.1	50	2.4	5.5	5.6	0.4	1	3	3.8	<0.1
1429111	Rock	0.008	31.2	5	0.03	1162	0.062	5.37	2.293	4.27	5.3	28.8	58	1.0	4.8	6.2	0.4	<1	3	1.7	<0.1
1429112	Rock	0.026	25.7	6	0.08	1062	0.134	5.77	2.552	3.76	6.6	24.8	49	1.6	7.2	8.3	0.6	1	5	2.9	<0.1
1429113	Rock	0.028	27.0	5	0.09	915	0.137	5.68	2.549	3.76	6.3	25.8	51	1.3	7.2	8.4	0.6	1	5	2.9	<0.1
1429114	Rock	0.037	23.0	5	0.08	1151	0.135	5.04	1.868	4.26	8.3	17.6	44	1.5	6.2	6.8	0.5	1	4	3.2	<0.1
1429115	Rock	0.036	22.7	7	0.08	1106	0.130	5.03	1.762	3.97	8.0	18.3	42	1.4	6.4	6.6	0.5	1	4	3.2	<0.1
1429116	Rock	0.023	23.2	5	0.12	862	0.111	5.97	2.350	3.26	4.2	16.5	43	1.2	6.7	6.1	0.4	1	4	3.7	<0.1
1429117	Rock	0.025	25.6	6	0.10	1199	0.111	5.54	2.139	3.49	5.2	15.3	47	1.6	5.1	5.5	0.3	<1	3	3.1	<0.1
1429118	Rock	0.060	21.8	5	0.31	1050	0.273	7.14	2.143	2.98	4.0	14.6	43	3.1	13.1	8.5	0.6	2	10	7.5	<0.1
1429119	Rock	0.026	21.0	7	0.16	1210	0.147	6.60	2.427	3.30	3.7	14.8	40	2.1	8.1	7.0	0.5	1	6	4.0	<0.1
1429120	Rock	0.025	20.6	5	0.15	1139	0.135	6.54	2.655	2.71	2.9	16.9	40	1.8	8.6	7.1	0.5	1	5	4.5	<0.1
1429121	Rock	0.021	22.5	6	0.14	1017	0.123	6.53	2.621	2.68	2.5	15.1	43	2.2	7.3	6.4	0.4	1	4	3.5	<0.1
1429122	Rock	0.019	21.7	6	0.14	1238	0.115	6.73	2.488	2.80	2.0	13.5	41	2.0	7.9	6.6	0.4	1	4	4.3	<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
1429105	Rock	69.0	0.4	<0.05	<0.005	<1	<0.5	0.6
1429106	Rock	70.8	0.4	0.06	<0.005	<1	<0.5	0.6
1429107	Rock	48.2	0.7	<0.05	<0.005	<1	<0.5	<0.5
1429108	Rock	62.7	0.6	0.06	<0.005	<1	<0.5	0.5
1429109	Rock	72.8	0.5	<0.05	<0.005	<1	<0.5	1.2
1429110	Rock	86.4	0.8	<0.05	<0.005	<1	1.7	0.9
1429111	Rock	87.3	0.9	<0.05	<0.005	<1	<0.5	0.6
1429112	Rock	87.1	0.8	0.07	<0.005	<1	<0.5	0.6
1429113	Rock	90.8	0.8	<0.05	<0.005	<1	<0.5	0.6
1429114	Rock	92.2	0.5	<0.05	<0.005	<1	<0.5	0.6
1429115	Rock	86.5	0.5	<0.05	<0.005	<1	<0.5	0.6
1429116	Rock	76.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429117	Rock	82.6	0.4	<0.05	<0.005	<1	<0.5	0.6
1429118	Rock	110.1	0.5	0.09	<0.005	<1	<0.5	0.6
1429119	Rock	91.2	0.4	0.06	<0.005	<1	<0.5	0.5
1429120	Rock	81.9	0.5	0.12	<0.005	<1	<0.5	0.5
1429121	Rock	83.1	0.5	0.06	<0.005	<1	<0.5	<0.5
1429122	Rock	86.2	0.5	0.09	<0.005	<1	<0.5	0.5





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**Project:** MPA  
**Report Date:** October 27, 2015

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# QUALITY CONTROL REPORT

# WHI15000216.1

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	
Pulp Duplicates																					
1428992	Rock	1.91	0.027	3.2	85.8	37.0	130	0.2	1.9	2.6	495	1.57	2	1.1	10.0	138	0.6	0.6	0.2	15	0.83
REP 1428992	QC			3.5	83.5	36.6	127	0.2	1.8	2.5	488	1.55	2	1.2	9.6	133	0.6	0.5	0.2	15	0.80
1429015	Rock	2.02	0.042	8.2	61.8	14.7	57	0.1	1.9	3.2	349	1.68	1	1.9	8.4	118	0.2	0.5	<0.1	15	1.13
REP 1429015	QC		0.021																		
1429027	Rock	0.71	0.070	3.3	39.5	24.5	44	0.1	5.0	2.1	272	1.39	1	0.9	7.4	94	<0.1	0.7	0.1	20	0.14
REP 1429027	QC			4.0	41.1	25.0	44	<0.1	4.8	2.3	272	1.42	1	0.8	7.5	95	0.1	0.8	0.1	20	0.18
1429046	Rock	1.12	0.007	2.1	40.7	10.5	74	<0.1	2.2	4.6	606	2.41	3	1.5	5.6	149	0.2	0.3	0.1	31	1.90
REP 1429046	QC		0.013																		
1429063	Rock	3.35	0.138	23.8	42.5	11.3	26	0.2	3.5	2.8	254	1.26	2	0.6	8.7	81	<0.1	1.2	0.2	23	0.10
REP 1429063	QC			23.4	41.8	10.9	26	0.2	3.1	2.7	253	1.25	<1	0.6	8.6	80	<0.1	1.2	0.3	23	0.09
1429098	Rock	1.74	0.056	6.3	70.6	18.6	58	0.1	0.8	2.4	322	1.44	2	1.3	8.1	122	0.2	0.4	<0.1	11	1.08
REP 1429098	QC			4.4	71.2	18.5	58	0.1	1.0	2.5	322	1.40	2	1.2	7.5	120	0.2	0.5	<0.1	12	1.07
1429121	Rock	1.91	0.006	3.9	53.1	13.3	69	0.1	1.3	2.8	355	1.71	3	1.1	8.2	105	0.2	1.1	<0.1	16	0.97
REP 1429121	QC		0.005																		
Core Reject Duplicates																					
1429011	Rock	2.89	0.036	4.7	28.1	15.2	57	0.1	1.5	2.7	384	1.51	1	1.2	8.6	116	0.2	0.3	<0.1	20	1.39
DUP 1429011	QC		0.030	5.8	31.0	15.1	60	<0.1	1.6	2.7	391	1.63	2	1.1	9.0	120	0.2	0.3	<0.1	20	1.41
1429079	Rock	1.27	0.013	5.1	60.3	24.8	66	0.1	1.7	2.7	341	1.65	3	1.5	8.6	135	0.2	0.6	0.3	18	1.14
DUP 1429079	QC		0.014	5.9	61.7	25.1	65	0.1	1.8	2.9	338	1.66	4	1.5	8.3	137	0.3	0.7	0.3	18	1.13
1429113	Rock	1.74	0.074	7.8	40.5	9.6	42	<0.1	1.3	2.5	304	1.67	2	1.0	10.6	79	0.1	1.4	<0.1	27	0.20
DUP 1429113	QC		0.060	7.8	43.0	10.5	45	0.1	1.3	2.7	318	1.79	2	1.0	10.2	77	<0.1	1.6	<0.1	28	0.20
Reference Materials																					
STD OREAS25A-4A	Standard			2.4	37.3	26.8	43	<0.1	50.4	8.3	518	6.94	11	3.1	17.4	50	<0.1	0.7	0.3	172	0.30
STD OREAS25A-4A	Standard			2.5	33.3	27.0	45	0.1	51.9	8.4	552	6.83	11	3.0	16.0	49	0.1	0.5	0.3	170	0.28
STD OREAS25A-4A	Standard			2.4	35.4	26.4	41	<0.1	49.6	8.0	493	6.67	10	3.2	14.3	44	<0.1	0.7	0.3	168	0.26
STD OREAS25A-4A	Standard			2.6	36.4	26.1	41	<0.1	49.2	8.2	498	6.83	11	3.0	14.9	47	<0.1	0.6	0.3	169	0.27
STD OREAS45E	Standard			2.3	812.7	19.4	46	0.3	485.8	63.0	579	25.15	17	2.7	14.6	17	<0.1	0.9	0.3	341	0.07
STD OREAS45E	Standard			2.8	820.0	21.2	49	0.4	480.6	62.7	646	25.30	18	2.6	14.0	18	<0.1	1.3	0.3	337	0.08



# QUALITY CONTROL REPORT

WHI15000216.1

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																					
1428992	Rock	0.019	25.4	7	0.10	1179	0.114	6.47	2.515	3.48	2.8	14.7	45	4.9	9.3	6.5	0.4	1	4	2.5	<0.1
REP 1428992	QC	0.020	24.7	7	0.10	1194	0.114	6.32	2.528	3.46	3.0	14.7	44	4.9	8.9	6.7	0.5	1	4	2.5	<0.1
1429015	Rock	0.016	22.1	8	0.20	953	0.102	6.45	2.534	2.88	3.2	18.5	39	3.1	7.1	6.2	0.5	1	4	3.7	<0.1
REP 1429015	QC																				
1429027	Rock	0.014	20.1	7	0.10	965	0.096	6.20	2.523	3.70	3.3	15.7	42	2.5	5.4	5.5	0.4	1	3	2.7	<0.1
REP 1429027	QC	0.017	19.4	11	0.10	996	0.102	6.08	2.523	3.42	3.6	15.5	40	2.8	5.3	5.9	0.4	2	3	2.9	<0.1
1429046	Rock	0.017	15.2	7	0.50	1448	0.108	6.78	2.958	2.42	1.6	13.1	32	3.5	7.8	5.6	0.5	2	6	3.4	<0.1
REP 1429046	QC																				
1429063	Rock	0.013	22.4	6	0.07	1030	0.073	5.32	2.844	2.35	7.0	16.9	42	1.6	4.4	4.7	0.3	1	3	3.2	<0.1
REP 1429063	QC	0.012	22.7	6	0.07	987	0.075	5.11	2.828	2.37	6.8	16.9	41	1.7	4.4	5.0	0.3	<1	3	3.2	<0.1
1429098	Rock	0.015	18.8	6	0.18	984	0.087	5.74	2.515	2.62	2.6	15.5	37	1.5	6.7	5.3	0.4	2	3	3.9	<0.1
REP 1429098	QC	0.015	17.3	6	0.18	949	0.085	5.51	2.520	2.62	2.5	14.6	34	1.3	6.2	5.2	0.4	2	3	3.8	<0.1
1429121	Rock	0.021	22.5	6	0.14	1017	0.123	6.53	2.621	2.68	2.5	15.1	43	2.2	7.3	6.4	0.4	1	4	3.5	<0.1
REP 1429121	QC																				
Core Reject Duplicates																					
1429011	Rock	0.021	21.3	7	0.22	1011	0.110	6.34	2.885	2.56	3.4	17.2	37	2.5	7.3	6.3	0.4	1	4	4.3	<0.1
DUP 1429011	QC	0.019	22.7	7	0.22	1022	0.109	6.56	2.900	2.58	3.2	17.5	40	2.3	7.7	6.1	0.4	1	4	4.1	<0.1
1429079	Rock	0.022	21.8	8	0.17	1177	0.108	6.48	2.635	2.91	2.7	16.6	40	2.6	7.5	6.2	0.5	2	4	4.2	<0.1
DUP 1429079	QC	0.023	21.4	8	0.20	1222	0.112	6.47	2.698	2.91	2.6	16.5	39	2.7	7.5	6.5	0.5	1	4	4.4	<0.1
1429113	Rock	0.028	27.0	5	0.09	915	0.137	5.68	2.549	3.76	6.3	25.8	51	1.3	7.2	8.4	0.6	1	5	2.9	<0.1
DUP 1429113	QC	0.029	26.1	3	0.09	1005	0.141	6.08	2.584	3.84	7.0	27.0	50	1.4	7.5	8.4	0.6	1	5	3.2	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.053	24.5	129	0.33	154	0.924	9.34	0.146	0.51	1.9	153.0	50	4.1	10.9	19.9	1.4	<1	14	39.4	<0.1
STD OREAS25A-4A	Standard	0.049	21.1	120	0.33	158	0.952	8.88	0.128	0.53	2.2	160.0	51	3.7	10.1	21.3	1.6	<1	14	36.7	<0.1
STD OREAS25A-4A	Standard	0.050	17.4	127	0.31	148	0.896	8.43	0.141	0.49	1.8	150.7	40	4.6	8.8	19.8	1.4	1	12	39.2	<0.1
STD OREAS25A-4A	Standard	0.052	18.9	129	0.31	155	0.929	8.66	0.143	0.51	1.9	155.4	44	4.4	9.4	20.0	1.4	1	13	40.1	<0.1
STD OREAS45E	Standard	0.035	12.1	1025	0.15	266	0.545	7.09	0.064	0.35	0.9	95.8	25	1.3	8.4	6.2	0.5	<1	98	6.8	<0.1
STD OREAS45E	Standard	0.037	11.1	1045	0.17	270	0.546	7.08	0.062	0.40	0.8	101.7	26	1.4	8.3	6.5	0.6	1	98	6.8	<0.1



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Project: MPA  
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# QUALITY CONTROL REPORT

WHI15000216.1

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
Pulp Duplicates								
1428992	Rock	98.3	0.4	0.09	<0.005	<1	<0.5	0.6
REP 1428992	QC	95.9	0.5	0.12	<0.005	<1	<0.5	0.7
1429015	Rock	76.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
REP 1429015	QC							
1429027	Rock	97.6	0.4	<0.05	<0.005	<1	<0.5	0.7
REP 1429027	QC	96.3	0.3	0.14	<0.005	<1	<0.5	0.7
1429046	Rock	76.7	0.4	0.05	<0.005	<1	<0.5	0.5
REP 1429046	QC							
1429063	Rock	51.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
REP 1429063	QC	51.7	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429098	Rock	68.8	0.5	<0.05	<0.005	<1	<0.5	0.5
REP 1429098	QC	67.7	0.4	<0.05	<0.005	<1	<0.5	0.5
1429121	Rock	83.1	0.5	0.06	<0.005	<1	<0.5	<0.5
REP 1429121	QC							
Core Reject Duplicates								
1429011	Rock	65.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
DUP 1429011	QC	67.2	0.4	0.06	<0.005	<1	<0.5	0.5
1429079	Rock	78.1	0.5	0.07	<0.005	<1	<0.5	0.5
DUP 1429079	QC	77.8	0.5	0.06	<0.005	<1	<0.5	0.6
1429113	Rock	90.8	0.8	<0.05	<0.005	<1	<0.5	0.6
DUP 1429113	QC	95.1	0.9	<0.05	<0.005	<1	<0.5	0.6
Reference Materials								
STD OREAS25A-4A	Standard	61.3	4.3	0.14	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.2	4.2	0.10	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	48.3	4.1	0.13	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	54.6	4.4	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.1	2.8	0.15	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.0	3.5	0.23	<0.005	3	<0.5	<0.5



# QUALITY CONTROL REPORT

WHI15000216.1

		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	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.4	821.0	20.3	49	0.3	492.0	62.3	603	26.29	18	2.7	14.2	18	<0.1	1.1	0.3	354	0.06
STD OREAS45E	Standard			2.5	834.1	20.0	47	0.3	495.4	62.4	560	25.21	18	2.6	11.1	16	<0.1	1.1	0.3	346	0.06
STD OXD108	Standard		0.404																		
STD OXD108	Standard		0.422																		
STD OXD108	Standard		0.420																		
STD OXD108	Standard		0.437																		
STD OXI121	Standard		1.815																		
STD OXI121	Standard		1.809																		
STD OXI121	Standard		1.788																		
STD OXI121	Standard		1.820																		
STD OXN117	Standard		7.703																		
STD OXN117	Standard		7.647																		
STD OXN117	Standard		7.553																		
STD OXN117	Standard		7.675																		
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		0.007																		
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	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01



# 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 OREAS45E	Standard	0.037	10.1	1060	0.16	269	0.560	7.29	0.068	0.36	1.0	101.2	23	1.4	7.8	6.7	0.6	<1	100	7.3	<0.1
STD OREAS45E	Standard	0.034	5.5	1053	0.15	257	0.545	6.49	0.062	0.35	1.0	98.0	20	1.4	5.8	6.3	0.5	<1	87	7.5	<0.1
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 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																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	3	<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	0.2	<0.1
BLK	Blank	<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



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Project: MPA  
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# QUALITY CONTROL REPORT

WHI15000216.1

		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 OREAS45E	Standard	21.3	3.2	0.13	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	17.0	3.1	0.10	<0.005	1	<0.5	<0.5
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 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							
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	0.5	<0.1	<0.05	<0.005	2	<0.5	<0.5



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Project: MPA  
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# 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			<0.1	<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	<1	<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	1.0	3.0	3.1	68	<0.1	0.9	4.4	642	2.03	1	1.2	2.9	205	0.2	0.1	0.3	37	1.68
ROCK-WHI	Prep Blank		<0.005	0.8	3.6	4.4	34	<0.1	1.0	4.4	663	2.08	1	1.2	2.9	205	<0.1	0.2	0.2	36	1.69



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# QUALITY CONTROL REPORT

WHI15000216.1

		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	<0.001	<0.1	3	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<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	<1	<1	0.1	<0.1	
Prep Wash																					
ROCK-WHI	Prep Blank	0.043	12.4	3	0.48	786	0.223	6.61	3.416	1.75	0.2	50.5	23	0.8	15.8	5.6	0.4	<1	7	1.5	<0.1
ROCK-WHI	Prep Blank	0.043	12.6	4	0.49	832	0.225	6.89	3.559	1.71	0.3	49.9	25	0.7	16.4	5.7	0.3	1	7	1.8	<0.1





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## QUALITY CONTROL REPORT

WHI15000216.1

		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
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	36.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
ROCK-WHI	Prep Blank	35.4	1.5	<0.05	<0.005	<1	<0.5	<0.5