



**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

WHI15000217.1

## 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	131	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	137	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
MA200	137	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

# WHI15000217.1

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	
1429123	Rock	1.64	0.008	10.7	141.0	20.1	70	0.2	1.6	3.5	219	1.76	3	1.0	7.2	98	0.3	0.7	0.3	16	0.40
1429124	Rock	1.90	0.036	6.7	85.5	11.7	49	0.2	1.6	3.5	442	1.67	3	1.0	7.1	93	<0.1	0.4	0.2	16	0.78
1429125	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1429126	Rock	1.38	0.044	5.8	60.3	14.6	99	0.2	2.6	4.7	566	1.89	3	1.3	7.4	81	0.3	0.4	0.3	31	1.05
1429127	Rock	2.23	0.036	5.0	71.5	13.7	55	0.1	2.4	2.6	352	1.40	1	1.0	9.5	85	0.2	0.5	0.2	16	0.56
1429128	Rock	1.18	0.032	5.1	64.3	13.7	86	0.2	2.1	3.0	375	1.44	2	0.9	8.1	92	0.2	1.2	0.2	16	0.82
1429129	Rock	2.94	0.063	5.1	60.8	13.1	80	0.1	1.6	2.5	333	1.46	3	1.2	7.7	85	0.4	0.7	0.2	17	0.84
1429130	Rock	3.73	0.270	7.0	74.2	15.6	86	0.2	1.5	2.7	373	1.58	2	1.5	7.7	80	0.7	0.5	0.2	18	0.81
1429131	Rock	3.25	0.148	6.5	66.9	16.7	77	0.2	0.9	2.8	377	1.57	2	0.9	7.9	82	0.5	0.7	0.2	19	0.92
1429132	Rock	2.19	0.102	6.3	69.0	15.9	84	0.2	1.6	2.9	444	1.59	3	1.0	8.2	86	0.1	0.5	0.1	18	0.80
1429133	Rock	3.05	0.085	6.9	59.6	14.7	89	0.1	1.5	2.6	438	1.56	4	1.0	7.8	95	0.4	0.4	0.1	17	0.94
1429134	Rock	2.45	0.065	5.9	66.2	15.1	88	0.2	1.2	3.0	423	1.68	4	1.2	7.9	95	0.3	0.6	0.2	18	0.92
1429135	Rock	4.92	0.094	8.3	63.0	13.7	83	0.2	1.7	2.7	394	1.59	2	1.1	7.6	91	0.6	0.5	<0.1	17	0.89
1429136	Rock	1.91	0.141	9.0	65.7	14.5	84	0.1	1.4	3.6	464	1.80	2	1.1	7.8	91	0.2	0.7	0.3	21	0.94
1429137	Rock	3.95	0.046	6.8	65.5	13.0	88	0.1	2.0	3.4	479	1.85	2	1.1	7.6	99	0.2	0.8	0.2	22	1.16
1429138	Rock	3.09	0.056	8.8	63.5	13.1	78	0.2	1.1	3.0	470	1.83	<1	1.2	7.7	99	0.2	0.5	0.2	21	1.13
1429139	Rock	5.83	0.155	9.3	76.1	13.1	81	0.2	1.4	3.5	538	1.93	3	1.3	8.2	106	0.7	0.7	0.3	22	1.25
1429140	Rock	2.81	0.783	12.8	82.7	12.3	79	0.2	2.7	3.7	518	1.83	2	1.2	7.2	101	0.4	0.8	0.3	20	1.24
1429141	Rock	3.07	0.034	7.7	72.3	11.5	82	0.2	1.9	2.6	462	1.68	3	1.2	7.7	110	<0.1	0.7	0.2	17	1.11
1429142	Rock	4.77	0.061	8.0	77.9	10.5	75	0.2	1.2	2.7	435	1.64	3	1.3	7.0	101	0.1	0.7	0.1	18	1.07
1429143	Rock	3.36	0.560	7.4	66.6	11.2	70	0.2	1.9	2.6	410	1.71	2	1.6	7.9	97	0.1	0.7	<0.1	20	0.96
1429144	Rock	4.89	0.948	9.7	60.3	11.2	57	0.3	2.8	3.4	354	1.62	2	1.6	7.2	90	0.1	1.4	0.2	19	0.76
1429145	Rock Pulp	0.06	1.451	9.2	50.4	9.3	76	0.4	43.8	13.4	940	4.74	9	0.6	1.9	293	0.2	2.5	0.1	130	2.80
1429146	Rock	3.24	1.398	20.6	40.1	17.2	53	0.6	2.4	3.0	304	1.53	2	1.2	6.4	99	0.2	1.4	0.3	20	0.44
1429147	Rock	1.91	0.941	13.5	43.0	15.3	56	0.3	2.8	3.3	409	1.76	2	1.2	6.8	109	0.2	1.4	0.3	22	0.69
1429148	Rock	2.49	0.533	8.6	32.8	14.6	48	0.4	2.1	3.2	466	1.58	2	1.6	7.9	118	0.2	1.1	0.2	17	0.84
1429149	Rock	2.48	0.399	5.7	30.3	15.4	51	0.1	2.3	2.9	380	1.48	2	1.6	7.9	118	0.1	0.9	0.1	16	0.86
1429150	Rock	2.41	0.240	4.9	29.8	15.0	47	0.2	2.2	2.7	328	1.45	1	1.2	7.5	114	<0.1	0.5	0.1	14	0.80
1429151	Rock	3.23	0.247	4.4	32.7	15.7	49	0.2	1.7	3.0	356	1.48	2	1.2	8.3	129	0.2	0.6	0.1	14	0.92
1429152	Rock	2.49	0.116	5.4	42.7	15.1	59	0.1	1.6	3.1	341	1.52	3	1.2	8.8	144	<0.1	0.6	0.1	14	1.04



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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	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	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	0.1
1429123	Rock	0.015	19.5	4	0.14	1347	0.108	6.24	2.406	3.31	3.2	16.2	38	4.8	6.1	7.3	0.4	2	4	3.3	<0.1	
1429124	Rock	0.016	20.9	4	0.13	1102	0.095	6.55	2.704	2.76	4.2	13.8	41	2.6	5.8	6.5	0.4	1	4	3.4	<0.1	
1429125	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1429126	Rock	0.022	20.6	7	0.17	1008	0.102	6.79	2.526	3.22	4.1	15.0	42	2.5	6.8	6.9	0.6	<1	6	4.1	<0.1	
1429127	Rock	0.014	26.0	4	0.10	1027	0.080	5.87	2.218	3.47	3.2	22.7	50	1.4	5.2	5.5	0.4	<1	4	2.9	<0.1	
1429128	Rock	0.015	21.4	5	0.14	1036	0.094	6.26	2.408	2.98	3.2	17.9	43	2.2	6.0	5.9	0.4	2	4	5.4	<0.1	
1429129	Rock	0.016	21.4	3	0.13	932	0.089	6.49	2.525	2.93	3.2	19.0	43	1.6	6.1	5.6	0.4	<1	4	4.2	<0.1	
1429130	Rock	0.018	22.0	5	0.13	903	0.101	6.31	2.298	3.05	4.1	16.8	44	1.8	6.2	6.0	0.4	2	4	5.6	<0.1	
1429131	Rock	0.015	21.6	4	0.15	882	0.097	6.43	2.390	2.96	4.1	16.2	43	2.0	6.2	5.9	0.4	2	4	5.5	<0.1	
1429132	Rock	0.016	22.6	4	0.19	979	0.099	6.35	2.234	2.91	3.6	17.1	46	1.8	6.4	6.4	0.4	<1	4	5.3	<0.1	
1429133	Rock	0.019	20.5	4	0.19	952	0.100	6.57	2.415	2.92	3.6	16.7	41	2.0	6.6	6.0	0.4	3	4	4.4	<0.1	
1429134	Rock	0.022	21.5	5	0.18	1011	0.108	6.58	2.463	3.00	4.2	17.6	44	2.3	6.2	6.4	0.4	2	4	4.1	<0.1	
1429135	Rock	0.018	19.9	4	0.17	931	0.101	6.38	2.324	2.80	3.6	16.7	41	2.6	6.1	5.9	0.4	1	4	5.5	<0.1	
1429136	Rock	0.025	21.0	5	0.20	973	0.121	6.55	2.253	2.96	4.2	18.4	42	2.3	6.4	7.0	0.4	2	5	4.5	<0.1	
1429137	Rock	0.025	19.4	5	0.24	940	0.125	6.64	2.346	2.90	3.3	17.1	40	2.6	6.6	6.7	0.5	1	5	5.3	<0.1	
1429138	Rock	0.021	19.9	5	0.23	928	0.119	6.73	2.389	2.92	3.6	16.8	40	1.9	6.6	6.6	0.5	1	5	5.1	<0.1	
1429139	Rock	0.027	20.6	6	0.26	1054	0.134	6.89	2.451	2.99	5.2	20.0	42	2.6	7.1	7.5	0.5	1	5	4.7	<0.1	
1429140	Rock	0.023	17.5	8	0.26	1001	0.126	6.61	2.357	2.86	6.0	19.3	37	2.7	6.1	7.4	0.5	1	5	5.4	<0.1	
1429141	Rock	0.018	18.1	6	0.25	989	0.114	6.57	2.619	2.82	5.4	17.1	37	2.1	5.9	7.2	0.5	3	4	6.4	<0.1	
1429142	Rock	0.018	17.3	5	0.24	929	0.108	6.25	2.490	2.98	5.2	16.2	37	2.6	5.7	6.8	0.5	<1	4	5.7	0.1	
1429143	Rock	0.020	20.1	6	0.23	974	0.128	6.71	2.050	4.52	7.5	19.3	44	3.3	6.4	8.5	0.6	<1	4	5.1	0.2	
1429144	Rock	0.026	20.4	7	0.18	942	0.118	6.29	1.583	4.62	8.9	16.3	40	2.7	5.6	7.3	0.5	2	3	5.0	0.3	
1429145	Rock Pulp	0.074	8.5	65	1.45	534	0.382	7.04	2.471	0.98	1.0	29.8	19	2.4	15.1	4.4	0.3	<1	17	20.0	<0.1	
1429146	Rock	0.027	17.1	7	0.14	1120	0.115	5.52	1.369	4.49	8.7	16.4	34	2.5	5.8	6.7	0.5	1	4	9.3	0.2	
1429147	Rock	0.030	18.7	7	0.19	1080	0.126	6.40	1.780	4.02	7.2	17.6	37	3.0	7.1	6.6	0.5	<1	4	8.7	0.2	
1429148	Rock	0.024	20.0	7	0.21	1063	0.107	6.45	2.170	3.54	5.6	15.4	41	2.6	7.0	6.7	0.5	2	4	8.0	0.1	
1429149	Rock	0.020	20.4	8	0.18	1086	0.104	6.36	2.374	3.17	6.0	18.1	40	2.0	6.8	6.5	0.4	<1	4	7.3	<0.1	
1429150	Rock	0.020	19.9	7	0.15	958	0.093	6.29	2.534	2.98	5.8	15.2	40	2.1	6.7	5.9	0.5	<1	4	6.1	<0.1	
1429151	Rock	0.022	21.2	8	0.16	1191	0.094	6.32	2.570	3.00	6.5	14.8	43	2.3	6.6	6.1	0.4	<1	3	5.1	<0.1	
1429152	Rock	0.017	22.6	7	0.17	1299	0.101	6.41	2.742	2.77	6.6	15.2	47	2.7	7.3	6.5	0.5	2	3	5.9	<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
1429123	Rock	89.5	0.5	0.06	<0.005	<1	<0.5	0.6
1429124	Rock	72.3	0.5	0.05	<0.005	2	<0.5	<0.5
1429125	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1429126	Rock	86.7	0.5	0.13	<0.005	<1	<0.5	0.6
1429127	Rock	88.0	0.7	<0.05	<0.005	<1	<0.5	0.6
1429128	Rock	87.4	0.5	<0.05	<0.005	2	<0.5	0.5
1429129	Rock	81.1	0.5	0.10	<0.005	2	<0.5	<0.5
1429130	Rock	83.3	0.5	<0.05	<0.005	<1	<0.5	0.5
1429131	Rock	80.3	0.6	<0.05	<0.005	<1	<0.5	<0.5
1429132	Rock	84.2	0.4	0.06	<0.005	1	<0.5	0.5
1429133	Rock	81.7	0.6	0.10	<0.005	<1	<0.5	0.5
1429134	Rock	87.9	0.6	0.12	<0.005	<1	<0.5	0.6
1429135	Rock	83.1	0.5	0.10	<0.005	<1	<0.5	0.5
1429136	Rock	92.8	0.5	0.06	<0.005	<1	<0.5	0.6
1429137	Rock	95.4	0.5	0.08	<0.005	1	<0.5	0.6
1429138	Rock	90.9	0.6	<0.05	<0.005	<1	<0.5	0.6
1429139	Rock	97.1	0.6	<0.05	<0.005	1	<0.5	<0.5
1429140	Rock	86.6	0.5	0.10	0.008	<1	<0.5	0.5
1429141	Rock	83.6	0.6	0.06	<0.005	<1	<0.5	0.6
1429142	Rock	81.6	0.5	0.12	0.006	<1	<0.5	0.6
1429143	Rock	102.9	0.5	0.16	0.006	1	<0.5	0.7
1429144	Rock	94.7	0.5	0.09	0.008	<1	<0.5	0.8
1429145	Rock Pulp	18.5	1.0	0.08	<0.005	<1	<0.5	<0.5
1429146	Rock	93.8	0.4	<0.05	0.008	2	<0.5	0.7
1429147	Rock	88.6	0.6	<0.05	<0.005	<1	<0.5	0.7
1429148	Rock	82.6	0.4	<0.05	<0.005	<1	<0.5	0.5
1429149	Rock	81.9	0.6	0.06	<0.005	<1	<0.5	0.6
1429150	Rock	75.0	0.4	<0.05	<0.005	2	<0.5	<0.5
1429151	Rock	77.5	0.6	<0.05	<0.005	<1	<0.5	0.6
1429152	Rock	77.7	0.4	0.06	<0.005	<1	<0.5	0.6



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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	
1429153	Rock	2.58	0.148	4.6	43.7	15.8	58	0.2	3.1	3.2	361	1.51	3	1.1	8.1	151	<0.1	0.6	<0.1	13	1.15
1429154	Rock	0.48	0.008	1.3	27.0	10.6	80	<0.1	7.9	8.8	771	3.36	3	1.1	7.4	115	<0.1	0.8	0.1	68	0.46
1429155	Rock	0.82	0.006	1.3	27.3	10.6	74	<0.1	7.6	8.9	760	3.36	2	1.1	7.6	111	0.1	1.0	0.2	69	0.48
1429156	Rock	2.22	0.006	2.2	60.9	13.1	70	0.1	6.0	7.8	701	3.03	2	1.0	7.0	92	0.1	1.1	0.2	64	0.34
1429157	Rock	3.59	<0.005	1.8	126.3	10.6	55	0.1	3.3	4.9	550	2.08	2	0.9	9.6	86	<0.1	1.5	0.2	33	0.25
1429158	Rock	1.81	<0.005	1.4	76.6	10.7	110	<0.1	3.8	6.9	830	3.52	2	0.9	7.9	71	0.2	0.7	0.5	76	0.38
1429159	Rock	2.60	0.007	3.8	55.0	12.2	133	0.2	4.4	7.7	938	3.37	3	0.9	8.9	112	0.4	0.9	0.6	69	1.22
1429160	Rock	2.33	<0.005	2.3	31.8	12.7	145	<0.1	5.5	9.0	939	3.96	2	1.1	8.9	109	0.3	1.0	0.5	83	1.10
1429161	Rock	2.43	0.011	1.9	82.8	10.3	102	0.2	3.5	6.2	774	3.25	2	1.5	10.0	116	0.2	1.4	0.5	69	1.15
1429162	Rock	2.45	0.009	3.9	169.7	9.4	155	0.3	2.4	8.6	832	4.15	2	1.7	8.5	83	0.2	5.3	1.3	92	1.37
1429163	Rock	2.18	0.119	5.7	173.7	14.1	202	0.3	2.3	7.9	904	3.33	5	1.7	10.1	79	2.7	3.7	0.6	73	1.23
1429164	Rock	1.78	0.420	62.3	104.1	20.9	204	0.2	4.0	4.9	708	3.49	8	2.4	9.2	82	1.2	4.7	0.5	70	1.73
1429165	Rock Pulp	0.06	0.008	2.3	25.7	5.1	65	0.2	34.3	14.4	810	3.69	5	0.6	1.8	307	0.1	0.7	<0.1	135	2.82
1429166	Rock	1.80	0.130	21.4	44.9	10.8	98	<0.1	5.1	4.9	653	3.78	4	2.4	8.9	72	0.4	2.1	0.6	73	1.60
1429167	Rock	1.85	0.083	3.9	24.2	13.3	55	<0.1	5.0	3.2	372	2.81	3	1.7	10.3	72	0.2	1.9	0.3	54	1.02
1429168	Rock	2.05	0.117	6.9	79.5	266.8	430	0.6	2.0	2.2	234	2.02	2	1.6	12.4	85	6.4	1.8	1.9	29	0.55
1429169	Rock	1.77	0.133	4.7	173.3	27.5	101	0.2	0.9	2.6	276	1.39	2	0.9	11.1	81	0.9	0.7	0.3	25	0.14
1429170	Rock	1.84	0.057	3.5	95.2	29.4	72	0.2	1.3	1.6	189	1.20	1	1.0	12.3	83	0.7	0.7	0.2	26	0.23
1429171	Rock	1.25	0.045	2.0	62.0	17.6	69	<0.1	0.7	1.2	126	1.05	2	1.0	12.6	73	0.8	0.8	0.1	23	0.19
1429172	Rock	1.87	0.052	3.2	69.1	30.1	63	0.1	1.1	1.7	186	1.25	1	1.3	12.7	78	0.4	0.8	0.2	25	0.28
1429173	Rock	3.74	0.086	5.8	71.5	22.1	69	0.1	1.8	2.2	258	1.59	2	1.4	13.5	81	0.3	1.2	0.2	30	0.51
1429174	Rock	3.51	0.135	5.8	53.8	17.8	54	0.2	2.0	2.0	247	1.62	<1	1.3	12.5	80	0.4	1.2	0.2	31	0.45
1429175	Rock	3.23	0.077	6.1	58.9	18.2	52	0.2	2.0	2.1	258	1.63	2	1.3	12.9	82	0.2	1.2	0.2	31	0.49
1429176	Rock	2.77	0.212	7.8	47.4	17.3	58	0.3	1.7	2.5	272	1.74	2	1.1	10.9	94	0.2	1.3	0.3	34	0.40
1429177	Rock	4.57	0.095	6.0	35.9	14.9	62	0.2	1.9	2.7	311	1.85	2	1.2	10.2	106	0.2	1.2	0.4	36	0.69
1429178	Rock	2.04	0.092	5.1	44.4	12.4	49	0.2	1.9	2.8	319	1.68	2	1.1	8.9	94	0.2	0.9	0.2	33	0.67
1429179	Rock	4.87	0.205	8.6	66.4	17.2	59	0.4	2.3	3.7	366	1.82	3	1.2	9.8	97	<0.1	0.8	0.3	35	0.45
1429180	Rock	3.60	0.190	6.4	54.0	16.1	35	0.3	1.7	2.3	270	1.32	2	0.9	10.8	93	0.3	0.7	0.1	24	0.25
1429181	Rock	2.49	0.333	10.7	52.6	12.6	40	0.2	1.9	2.5	310	1.47	2	0.9	10.2	87	0.2	0.8	0.1	27	0.38
1429182	Rock	3.63	0.283	7.5	53.1	14.2	48	0.2	1.7	2.7	365	1.51	1	1.2	8.5	91	<0.1	0.9	<0.1	26	0.57



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

WHI15000217.1

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	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
1429153	Rock	0.023	20.8	6	0.18	1222	0.102	6.73	2.833	2.70	7.1	14.0	44	3.0	7.6	6.3	0.5	2	3	5.5	<0.1
1429154	Rock	0.050	20.4	9	0.44	857	0.313	7.42	1.963	2.22	2.8	22.0	43	2.4	13.7	8.8	0.6	<1	11	13.9	<0.1
1429155	Rock	0.052	22.1	9	0.44	868	0.327	7.28	1.937	2.25	2.7	20.1	46	2.6	13.6	9.0	0.6	3	11	15.1	<0.1
1429156	Rock	0.061	20.0	4	0.35	850	0.296	7.59	1.911	2.32	2.7	15.9	42	7.3	16.6	8.9	0.6	<1	11	10.6	<0.1
1429157	Rock	0.035	23.7	4	0.19	1022	0.184	6.09	2.491	2.16	3.3	17.4	48	1.9	11.3	8.4	0.6	2	6	6.0	<0.1
1429158	Rock	0.060	25.4	2	0.40	715	0.307	7.21	1.884	2.28	2.8	16.1	50	2.8	17.0	9.3	0.6	2	11	11.2	<0.1
1429159	Rock	0.054	26.9	3	0.28	783	0.270	7.48	2.505	2.03	2.8	19.0	52	6.7	15.4	8.2	0.6	2	10	8.7	<0.1
1429160	Rock	0.072	26.5	4	0.50	786	0.338	7.71	2.089	2.38	2.3	21.4	56	5.8	17.8	10.1	0.7	2	12	10.9	<0.1
1429161	Rock	0.060	25.8	4	0.28	665	0.272	7.26	2.681	2.29	4.0	20.0	51	4.4	14.4	9.6	0.8	2	11	7.1	<0.1
1429162	Rock	0.072	24.7	3	0.39	755	0.343	7.67	1.679	2.65	3.3	20.1	52	4.7	15.7	9.4	0.7	2	13	8.2	<0.1
1429163	Rock	0.051	26.7	4	0.22	852	0.255	6.92	2.150	3.01	5.5	19.2	55	3.4	9.8	7.8	0.6	2	10	5.2	<0.1
1429164	Rock	0.047	22.8	6	0.20	471	0.202	6.47	1.621	2.95	8.7	24.8	47	11.4	10.3	10.0	0.7	2	9	8.6	<0.1
1429165	Rock Pulp	0.064	8.6	52	1.44	479	0.388	6.50	2.512	0.88	20.5	27.8	19	0.9	15.0	4.1	0.2	<1	15	16.9	<0.1
1429166	Rock	0.044	23.0	9	0.31	410	0.219	7.13	1.970	2.87	6.7	24.2	47	12.5	14.6	8.4	0.7	3	10	8.2	<0.1
1429167	Rock	0.027	25.8	10	0.26	232	0.145	6.60	2.837	2.23	5.3	26.1	51	6.6	10.2	7.8	0.6	1	8	4.5	<0.1
1429168	Rock	0.009	29.6	4	0.08	1517	0.072	5.44	2.310	3.04	5.1	27.7	57	3.7	7.1	6.4	0.5	1	3	3.2	0.1
1429169	Rock	0.007	27.9	2	0.04	1226	0.057	5.43	2.386	3.71	3.0	27.4	54	2.1	4.6	5.5	0.3	1	2	1.6	<0.1
1429170	Rock	0.010	30.8	3	0.07	1177	0.064	5.63	2.555	3.36	3.0	27.9	57	1.9	5.7	4.7	0.3	1	3	1.9	<0.1
1429171	Rock	0.007	31.4	2	0.06	1041	0.059	5.52	2.568	3.28	2.5	28.3	59	1.7	5.4	5.1	0.3	1	3	2.2	<0.1
1429172	Rock	0.010	30.2	3	0.09	1077	0.073	5.61	2.513	3.36	3.0	29.8	58	2.1	6.0	6.3	0.5	<1	3	2.6	<0.1
1429173	Rock	0.013	29.8	3	0.10	1008	0.087	5.91	2.548	3.25	4.2	31.5	58	2.9	6.8	7.3	0.6	1	4	2.6	<0.1
1429174	Rock	0.015	29.8	4	0.10	948	0.090	5.89	2.403	3.20	4.6	31.0	56	2.8	7.0	7.3	0.5	2	5	3.1	<0.1
1429175	Rock	0.015	30.2	5	0.11	1001	0.087	6.05	2.428	3.25	4.5	30.9	59	2.8	6.7	7.1	0.5	<1	5	3.7	<0.1
1429176	Rock	0.017	26.4	4	0.13	946	0.102	6.07	2.510	3.14	4.1	25.6	52	2.7	6.6	7.1	0.5	<1	5	3.2	<0.1
1429177	Rock	0.022	25.4	5	0.17	916	0.119	6.50	2.520	3.02	3.5	20.7	51	2.9	8.5	8.0	0.7	2	5	3.4	<0.1
1429178	Rock	0.019	23.8	4	0.15	944	0.114	6.27	2.554	2.99	4.0	18.1	47	2.6	7.4	7.3	0.5	<1	4	3.5	<0.1
1429179	Rock	0.026	23.3	4	0.15	1055	0.121	5.92	2.164	3.16	5.3	21.0	46	2.2	7.1	6.8	0.5	1	4	4.1	<0.1
1429180	Rock	0.014	26.2	3	0.10	1284	0.080	5.48	1.647	3.75	3.7	27.6	51	1.9	5.2	5.9	0.3	<1	4	3.1	<0.1
1429181	Rock	0.018	25.6	4	0.14	1109	0.089	5.54	1.862	3.33	4.1	20.4	50	1.6	5.9	5.5	0.3	<1	4	3.5	<0.1
1429182	Rock	0.018	21.1	4	0.18	1010	0.099	5.74	1.975	3.10	3.5	18.0	42	1.4	6.1	5.8	0.3	<1	4	3.5	0.1



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

WHI15000217.1

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
1429153	Rock	74.8	0.4	0.14	<0.005	<1	<0.5	0.5
1429154	Rock	84.1	0.5	0.05	<0.005	<1	<0.5	0.6
1429155	Rock	83.3	0.7	0.15	<0.005	<1	<0.5	0.6
1429156	Rock	85.9	0.6	0.09	<0.005	<1	<0.5	0.5
1429157	Rock	69.0	0.5	0.13	<0.005	<1	<0.5	0.5
1429158	Rock	88.6	0.4	0.07	<0.005	<1	<0.5	0.6
1429159	Rock	75.5	0.6	0.11	<0.005	<1	<0.5	0.5
1429160	Rock	85.8	0.5	0.25	<0.005	<1	<0.5	0.6
1429161	Rock	83.9	0.5	0.13	<0.005	<1	<0.5	0.6
1429162	Rock	107.2	0.5	0.09	<0.005	<1	<0.5	0.8
1429163	Rock	87.2	0.5	0.30	<0.005	<1	<0.5	0.8
1429164	Rock	65.2	0.7	0.35	<0.005	<1	<0.5	0.9
1429165	Rock Pulp	17.1	1.1	<0.05	0.008	<1	<0.5	<0.5
1429166	Rock	84.6	0.9	0.35	0.005	<1	<0.5	0.8
1429167	Rock	66.2	0.9	0.32	0.005	1	<0.5	0.5
1429168	Rock	69.9	0.9	0.48	<0.005	1	<0.5	<0.5
1429169	Rock	75.4	0.9	0.14	0.007	<1	<0.5	<0.5
1429170	Rock	71.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
1429171	Rock	71.9	0.8	0.10	<0.005	<1	<0.5	<0.5
1429172	Rock	82.9	1.1	<0.05	<0.005	<1	<0.5	0.5
1429173	Rock	80.6	0.9	0.12	<0.005	<1	<0.5	0.5
1429174	Rock	79.7	1.0	<0.05	<0.005	<1	<0.5	0.5
1429175	Rock	82.3	1.0	0.09	<0.005	<1	<0.5	0.5
1429176	Rock	81.7	0.8	0.10	0.005	<1	<0.5	<0.5
1429177	Rock	87.7	0.7	0.13	<0.005	<1	<0.5	<0.5
1429178	Rock	81.3	0.5	0.08	<0.005	<1	<0.5	0.5
1429179	Rock	86.1	0.7	<0.05	<0.005	<1	<0.5	0.5
1429180	Rock	87.1	0.8	<0.05	<0.005	<1	<0.5	0.6
1429181	Rock	83.0	0.6	0.08	<0.005	<1	<0.5	0.5
1429182	Rock	80.5	0.5	<0.05	<0.005	<1	<0.5	0.5



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# CERTIFICATE OF ANALYSIS

# WHI15000217.1

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	
1429183	Rock	1.18	0.055	6.1	30.4	12.4	54	0.1	2.0	1.8	257	1.51	2	1.2	9.5	94	<0.1	0.8	<0.1	24	0.50
1429184	Rock	1.55	0.067	9.2	24.0	12.4	51	0.1	1.9	1.9	198	1.16	1	1.2	9.6	100	<0.1	1.8	0.2	22	0.29
1429185	Rock Pulp	0.07	<0.005	2.6	28.4	5.3	61	0.5	33.7	14.5	788	3.65	7	0.5	1.6	298	0.2	0.8	<0.1	133	2.83
1429186	Rock	2.03	0.043	7.5	22.5	10.8	35	<0.1	1.6	2.1	252	1.15	1	0.9	8.2	103	<0.1	0.7	<0.1	23	0.45
1429187	Rock	1.79	0.070	5.6	29.4	11.5	35	0.1	1.5	1.9	212	1.22	1	1.0	8.6	99	<0.1	0.6	<0.1	24	0.46
1429188	Rock	1.58	0.092	3.9	43.6	12.8	44	0.1	1.3	2.3	294	1.29	<1	0.9	7.6	117	0.2	0.7	<0.1	24	0.96
1429189	Rock	1.48	1.722	12.7	31.4	12.5	24	0.6	1.7	1.4	155	0.90	4	0.6	4.3	79	<0.1	2.0	0.2	13	0.24
1429190	Rock	2.08	1.845	7.7	25.4	10.2	22	0.6	1.4	1.0	117	0.72	3	0.5	3.0	73	<0.1	1.8	0.1	9	0.13
1429191	Rock	1.51	0.756	5.4	29.6	13.9	25	0.3	1.5	1.0	118	0.88	3	0.6	5.5	94	<0.1	1.4	0.1	20	0.13
1429192	Rock	2.00	0.779	4.5	16.9	11.2	22	0.2	1.4	1.2	100	0.90	2	0.6	5.9	88	<0.1	1.0	<0.1	25	0.12
1429193	Rock	2.27	0.361	5.1	14.9	9.9	20	0.1	1.5	1.2	151	0.91	<1	0.5	6.3	84	<0.1	0.8	0.2	17	0.14
1429194	Rock	1.55	0.288	4.7	15.7	9.8	32	<0.1	1.1	1.3	204	1.06	2	0.5	7.1	94	<0.1	0.6	0.1	16	0.24
1429195	Rock	2.24	0.165	4.8	13.0	9.4	32	<0.1	1.4	1.2	189	1.11	1	0.5	7.0	99	<0.1	0.5	<0.1	15	0.20
1429196	Rock	1.16	0.077	6.5	16.9	15.2	51	<0.1	1.3	2.0	319	1.25	<1	0.9	8.0	187	0.1	1.1	0.2	14	0.81
1429197	Rock	1.38	0.100	6.1	40.3	14.2	58	0.2	1.1	2.7	396	1.52	1	1.1	7.7	167	0.1	0.6	0.1	18	1.17
1429198	Rock	1.89	0.071	5.3	45.5	12.9	49	<0.1	1.3	2.6	374	1.46	<1	1.1	7.5	159	0.1	0.4	<0.1	19	1.18
1429199	Rock	1.05	0.046	3.7	38.8	9.6	39	<0.1	7.4	4.1	329	1.75	3	0.9	9.1	112	<0.1	0.9	<0.1	32	0.36
1429200	Rock	2.57	0.165	6.8	548.3	18.7	115	1.1	2.3	8.9	781	5.77	2	1.7	9.7	65	0.3	0.8	2.1	32	0.15
1429201	Rock	3.90	0.012	5.1	57.0	46.4	236	0.2	2.5	3.3	439	2.03	2	0.9	9.5	112	1.1	0.8	0.5	21	0.33
1429202	Rock	2.61	0.364	9.5	34.6	10.6	40	0.2	1.8	2.9	335	1.87	3	0.7	8.2	85	<0.1	0.7	0.2	29	0.43
1429203	Rock	2.08	0.033	4.2	52.3	10.2	37	<0.1	1.4	2.3	250	1.39	2	0.8	9.7	97	<0.1	1.1	0.1	18	0.37
1429204	Rock	2.77	0.091	7.8	17.4	6.9	53	<0.1	1.4	3.4	474	2.20	<1	1.2	7.3	81	<0.1	0.9	<0.1	35	1.04
1429205	Rock Pulp	0.07	1.440	9.1	49.5	8.6	63	0.3	39.2	12.9	785	4.38	9	0.5	1.6	266	0.1	2.2	0.2	125	2.58
1429206	Rock	2.69	0.044	12.2	26.1	9.4	51	<0.1	1.7	3.3	372	1.87	3	1.2	10.4	106	<0.1	1.6	0.1	28	1.29
1429207	Rock	2.61	0.044	11.5	18.5	8.7	52	<0.1	0.9	2.8	524	1.70	3	0.9	7.9	84	<0.1	1.8	<0.1	24	1.31
1429208	Rock	1.16	0.090	14.6	36.7	11.9	51	0.1	1.2	2.7	399	1.54	5	1.2	8.5	119	<0.1	2.4	0.2	22	1.22
1429209	Rock	1.71	0.052	4.7	105.4	10.3	77	0.2	1.6	5.5	506	2.74	6	1.4	7.8	126	0.2	2.7	0.2	32	1.25
1429210	Rock	1.73	0.021	1.5	56.4	7.2	46	0.1	1.6	4.5	385	1.92	2	0.9	7.8	80	<0.1	1.4	0.1	33	0.46
1429211	Rock	0.97	0.038	1.7	39.2	8.9	57	<0.1	1.1	3.8	316	2.16	3	1.2	8.8	111	0.1	1.2	0.1	27	0.89
1429212	Rock	1.65	0.035	2.5	62.6	10.6	123	0.2	1.4	7.8	803	3.46	3	1.2	6.2	106	0.2	1.1	0.3	51	1.52





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Project: MPA

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# CERTIFICATE OF ANALYSIS

# WHI15000217.1

Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		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
1429183	Rock	0.024	24.2	4	0.19	808	0.105	5.62	1.595	3.02	3.0	20.2	45	1.8	6.7	6.2	0.4	1	4	3.9	<0.1
1429184	Rock	0.017	26.0	3	0.11	874	0.078	4.87	1.747	3.03	3.1	23.1	50	1.1	5.4	5.4	0.3	<1	3	5.4	<0.1
1429185	Rock Pulp	0.061	7.7	53	1.41	477	0.380	6.27	2.461	0.88	21.3	27.0	17	0.8	14.3	3.9	0.2	<1	15	14.8	<0.1
1429186	Rock	0.017	20.5	3	0.16	865	0.088	5.43	1.859	3.02	2.7	17.3	40	1.3	5.4	5.5	0.3	<1	3	3.5	<0.1
1429187	Rock	0.016	22.7	2	0.18	797	0.094	5.45	1.932	2.78	2.9	16.4	46	1.5	6.0	5.4	0.3	<1	3	3.8	<0.1
1429188	Rock	0.019	20.3	2	0.23	923	0.102	5.36	1.502	2.90	2.6	15.4	40	1.6	6.1	5.2	0.3	1	4	5.1	0.1
1429189	Rock	0.012	12.4	3	0.09	673	0.058	3.22	0.693	2.52	2.8	10.1	23	1.5	3.4	3.0	0.2	<1	2	6.0	<0.1
1429190	Rock	0.007	8.8	2	0.05	424	0.040	2.39	0.384	1.62	2.1	6.9	18	1.2	2.7	2.2	0.1	<1	1	6.5	<0.1
1429191	Rock	0.015	18.0	3	0.08	726	0.074	4.00	1.353	2.76	3.9	12.2	34	2.6	4.0	4.2	0.3	<1	3	7.1	<0.1
1429192	Rock	0.016	22.7	2	0.08	681	0.075	4.47	2.189	2.70	4.0	15.0	43	1.9	4.1	4.9	0.3	<1	2	4.9	<0.1
1429193	Rock	0.015	26.7	4	0.07	741	0.082	5.02	3.059	3.10	4.9	16.6	49	1.9	3.8	5.2	0.4	<1	2	3.7	<0.1
1429194	Rock	0.014	22.1	4	0.10	744	0.077	5.49	2.968	2.90	3.3	13.5	41	2.1	5.2	4.7	0.3	1	3	3.8	<0.1
1429195	Rock	0.014	21.8	5	0.10	755	0.076	5.84	3.148	3.03	3.3	13.9	40	2.2	5.4	4.8	0.3	1	3	3.7	<0.1
1429196	Rock	0.021	23.8	7	0.17	1188	0.108	7.44	3.103	2.79	2.6	17.3	43	3.0	7.9	5.7	0.4	1	3	5.1	<0.1
1429197	Rock	0.024	22.7	6	0.24	1053	0.123	7.10	3.125	2.55	2.8	17.0	42	3.0	9.0	6.4	0.4	2	4	5.0	<0.1
1429198	Rock	0.022	20.2	6	0.22	1019	0.113	6.95	3.065	2.69	3.8	16.9	38	2.8	8.5	6.1	0.4	2	4	4.3	<0.1
1429199	Rock	0.023	23.2	16	0.20	761	0.139	6.30	3.269	2.47	2.8	22.4	44	1.4	6.5	6.4	0.4	1	5	5.6	<0.1
1429200	Rock	0.024	26.1	6	0.18	1704	0.098	7.33	1.624	5.64	6.3	18.1	47	7.4	6.8	6.6	0.5	1	5	3.5	<0.1
1429201	Rock	0.026	24.1	7	0.13	998	0.141	7.98	3.272	3.01	5.4	18.1	46	2.4	7.7	8.1	0.6	2	5	3.9	<0.1
1429202	Rock	0.030	22.7	7	0.07	1071	0.115	7.04	3.675	3.22	5.8	14.7	44	2.0	5.1	6.2	0.4	1	4	2.8	<0.1
1429203	Rock	0.018	25.0	6	0.09	990	0.094	6.08	3.013	3.52	3.9	19.4	45	1.8	5.6	6.1	0.4	<1	3	2.5	<0.1
1429204	Rock	0.038	22.3	6	0.15	983	0.157	6.52	3.007	3.52	7.3	19.6	42	1.6	6.3	7.3	0.5	1	6	3.0	<0.1
1429205	Rock Pulp	0.065	8.2	57	1.38	464	0.372	6.21	2.504	0.93	0.9	28.4	17	2.1	14.0	4.2	0.3	<1	15	16.0	<0.1
1429206	Rock	0.030	29.7	7	0.12	1098	0.159	7.92	2.663	3.65	6.8	20.6	53	1.0	7.3	8.0	0.5	1	6	3.4	<0.1
1429207	Rock	0.023	20.7	6	0.11	919	0.135	6.78	2.277	3.23	6.9	18.8	40	1.2	6.0	6.7	0.5	1	5	4.2	<0.1
1429208	Rock	0.019	25.4	5	0.10	1256	0.104	6.97	2.218	3.14	5.9	20.2	47	2.1	5.0	6.7	0.5	2	4	5.8	<0.1
1429209	Rock	0.062	24.7	5	0.16	901	0.204	7.64	3.024	2.85	5.7	17.2	45	3.4	8.8	9.6	0.8	2	7	11.3	<0.1
1429210	Rock	0.024	21.8	5	0.11	801	0.122	5.17	2.673	2.37	3.7	15.1	39	2.2	4.9	6.3	0.5	1	4	4.8	<0.1
1429211	Rock	0.045	25.7	4	0.17	793	0.166	6.68	2.898	2.79	2.9	16.0	46	2.4	9.0	7.1	0.5	1	6	10.0	<0.1
1429212	Rock	0.062	19.3	5	0.44	1065	0.246	6.80	2.699	3.15	4.1	16.3	39	4.0	10.0	7.4	0.5	1	9	14.6	0.1



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

WHI15000217.1

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
1429183	Rock	81.2	0.6	<0.05	<0.005	<1	<0.5	0.6
1429184	Rock	74.8	0.7	<0.05	<0.005	<1	<0.5	<0.5
1429185	Rock Pulp	15.1	0.9	<0.05	<0.005	<1	0.9	<0.5
1429186	Rock	76.1	0.6	0.09	<0.005	<1	<0.5	<0.5
1429187	Rock	73.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
1429188	Rock	76.1	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429189	Rock	53.7	0.4	<0.05	<0.005	<1	0.5	<0.5
1429190	Rock	35.6	0.3	<0.05	<0.005	<1	<0.5	<0.5
1429191	Rock	59.9	0.3	<0.05	0.006	<1	<0.5	<0.5
1429192	Rock	55.0	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429193	Rock	58.7	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429194	Rock	63.4	0.4	0.06	<0.005	<1	<0.5	<0.5
1429195	Rock	67.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429196	Rock	75.3	0.6	<0.05	<0.005	<1	<0.5	0.6
1429197	Rock	74.8	0.5	0.08	<0.005	<1	<0.5	<0.5
1429198	Rock	76.0	0.5	<0.05	<0.005	<1	<0.5	0.5
1429199	Rock	59.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
1429200	Rock	137.8	0.5	0.93	<0.005	<1	1.1	1.0
1429201	Rock	87.6	0.5	0.17	<0.005	<1	<0.5	0.5
1429202	Rock	69.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429203	Rock	79.1	0.6	<0.05	<0.005	<1	<0.5	0.5
1429204	Rock	79.9	0.6	<0.05	<0.005	<1	<0.5	0.5
1429205	Rock Pulp	16.9	0.9	0.08	<0.005	1	<0.5	<0.5
1429206	Rock	98.9	0.7	<0.05	<0.005	<1	<0.5	0.7
1429207	Rock	80.7	0.6	<0.05	<0.005	<1	<0.5	0.6
1429208	Rock	72.8	0.6	0.10	<0.005	<1	<0.5	0.5
1429209	Rock	74.0	0.6	0.17	<0.005	<1	<0.5	0.5
1429210	Rock	54.9	0.5	0.09	<0.005	<1	<0.5	<0.5
1429211	Rock	67.2	0.5	0.10	<0.005	<1	<0.5	<0.5
1429212	Rock	76.3	0.5	0.13	<0.005	<1	<0.5	0.6



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# CERTIFICATE OF ANALYSIS

# WHI15000217.1

Method Analyte	Unit	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
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
1429213	Rock	2.54	0.028	2.8	61.3	11.3	103	0.2	1.4	6.3	770	2.84	3	1.3	7.3	124	0.2	1.2	0.4	39	1.56
1429214	Rock	2.90	0.031	2.8	68.3	11.2	109	0.2	1.5	6.0	801	2.86	3	1.3	6.8	116	0.2	1.1	0.5	39	1.51
1429215	Rock	2.29	0.028	2.9	67.4	11.4	109	0.2	1.7	6.3	841	2.95	3	1.4	7.3	116	0.2	1.0	0.4	40	1.54
1429216	Rock	4.15	0.034	2.6	64.1	10.2	87	0.1	1.9	5.4	665	2.50	4	1.5	7.8	107	0.2	1.1	0.2	33	1.25
1429217	Rock	2.96	0.549	24.0	69.9	14.7	67	0.3	2.6	4.2	631	3.13	3	2.1	7.6	96	0.1	1.5	0.4	34	1.62
1429218	Rock	4.64	0.789	32.8	40.5	17.4	45	0.3	2.6	3.5	571	2.13	2	1.4	6.5	72	<0.1	1.3	0.4	24	1.08
1429219	Rock	3.93	0.507	15.0	25.5	10.4	37	0.3	2.3	3.0	490	1.82	1	1.0	6.6	62	<0.1	1.2	0.2	28	1.04
1429220	Rock	2.21	0.594	15.6	24.7	9.2	33	0.2	1.6	2.5	359	1.49	2	0.8	6.2	60	<0.1	1.2	0.3	25	0.73
1429221	Rock	2.13	0.883	6.2	25.8	8.7	34	0.2	1.5	3.0	405	1.72	2	0.8	6.1	66	0.1	1.0	<0.1	32	0.90
1429222	Rock	1.63	0.847	9.1	19.8	9.5	31	0.3	1.3	2.5	325	1.38	2	0.9	6.6	74	<0.1	0.8	<0.1	25	0.84
1429223	Rock	2.09	0.622	5.2	25.4	9.8	23	0.3	1.3	2.1	286	1.19	2	0.9	7.9	68	<0.1	0.7	<0.1	20	0.68
1429224	Rock	1.98	1.142	13.4	22.2	8.2	18	0.3	1.5	2.6	312	1.07	<1	0.8	6.6	56	<0.1	1.1	<0.1	19	0.41
1429225	Rock Pulp	0.08	0.005	2.3	25.9	5.2	59	0.3	33.1	14.4	743	3.59	5	0.5	1.7	277	0.2	0.9	<0.1	117	2.72
1429226	Rock	1.39	0.740	22.2	14.7	11.7	16	0.3	1.4	2.0	303	0.98	<1	0.6	6.8	66	<0.1	1.0	0.2	21	0.68
1429227	Rock	1.85	0.520	22.4	15.2	8.9	26	0.3	2.4	2.9	636	1.38	2	0.7	6.9	66	<0.1	0.7	0.2	23	1.09
1429228	Rock	1.58	0.543	12.9	17.2	8.4	27	0.2	1.9	2.7	367	1.43	2	0.8	6.3	73	<0.1	1.1	0.3	38	0.78
1429229	Rock	1.95	0.486	10.4	39.7	8.6	33	0.2	1.3	2.9	306	1.67	2	0.9	6.9	82	0.1	1.4	0.2	42	0.71
1429230	Rock	1.91	0.247	5.8	22.0	8.9	33	0.1	1.1	2.3	313	1.36	1	0.9	7.6	86	<0.1	1.3	0.1	39	0.78
1429231	Rock	1.67	0.110	8.2	37.3	9.2	45	0.1	1.5	2.4	303	1.49	2	1.1	8.0	91	0.1	1.2	0.2	37	0.74
1429232	Rock	1.41	0.307	6.3	42.6	11.9	58	0.2	0.9	1.9	243	1.33	2	0.9	7.5	92	0.2	0.9	0.1	26	0.58
1429233	Rock	1.24	0.497	22.1	83.2	17.3	98	0.3	1.0	2.6	317	1.55	4	1.6	7.1	111	0.3	1.9	0.2	28	0.89
1429234	Rock	2.26	0.248	19.4	49.3	14.8	78	0.1	0.9	2.0	291	1.36	3	1.0	7.3	116	0.3	1.3	0.1	25	0.80
1429235	Rock	1.85	0.097	20.8	51.4	15.2	79	0.2	0.8	1.9	274	1.39	4	1.1	7.3	119	0.3	1.2	<0.1	25	0.79
1429236	Rock	1.39	0.064	14.2	38.6	13.8	50	0.1	0.8	2.3	343	1.22	3	0.9	8.1	100	0.2	0.9	0.1	24	0.70
1429237	Rock	1.34	0.064	7.1	25.0	12.5	51	<0.1	1.4	1.9	264	1.29	3	0.8	7.2	98	<0.1	0.9	<0.1	22	0.60
1429238	Rock	2.18	0.098	9.9	89.8	14.6	51	<0.1	1.5	2.2	303	1.35	3	1.0	8.7	106	0.1	1.1	0.2	24	0.69
1429239	Rock	1.78	0.072	6.3	105.6	12.4	55	0.1	1.1	3.0	370	1.65	3	1.3	8.3	125	<0.1	1.0	0.2	30	1.07
1429240	Rock	2.39	0.025	47.0	76.1	11.0	54	<0.1	1.0	2.9	390	1.68	1	1.3	7.4	117	<0.1	0.8	<0.1	31	1.19
1429241	Rock	1.59	0.054	24.0	65.1	11.1	55	<0.1	1.2	3.1	378	1.64	1	1.1	7.4	92	<0.1	0.8	0.1	31	0.83
1429242	Rock	1.79	0.025	18.9	27.4	11.8	57	<0.1	1.1	2.6	346	1.65	1	1.1	8.4	114	<0.1	0.6	<0.1	31	0.85



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WHI15000217.1

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	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
1429213	Rock	0.050	20.2	6	0.36	1072	0.204	6.84	2.565	3.01	4.1	14.9	39	2.8	9.0	6.8	0.5	1	8	10.2	<0.1	
1429214	Rock	0.050	19.8	8	0.37	977	0.221	6.55	2.561	2.85	4.3	14.8	39	3.0	9.6	7.5	0.5	1	8	7.7	<0.1	
1429215	Rock	0.054	19.0	7	0.38	1037	0.210	6.80	2.589	2.91	4.6	14.2	37	2.8	9.2	7.1	0.5	1	8	9.0	<0.1	
1429216	Rock	0.042	23.3	7	0.31	984	0.192	6.49	2.647	2.78	4.8	16.5	44	2.5	8.8	7.4	0.6	1	7	6.5	<0.1	
1429217	Rock	0.034	20.0	5	0.38	799	0.145	6.04	1.941	2.88	5.4	16.7	38	12.3	13.8	6.9	0.5	1	6	7.2	<0.1	
1429218	Rock	0.024	18.5	6	0.22	775	0.113	4.89	1.164	3.72	7.4	15.3	34	6.6	9.0	5.7	0.4	<1	5	5.7	<0.1	
1429219	Rock	0.026	17.7	6	0.18	888	0.124	4.94	1.136	4.68	10.5	15.5	34	3.6	6.1	6.4	0.5	<1	5	3.5	0.1	
1429220	Rock	0.027	20.2	5	0.13	763	0.123	5.11	1.495	4.89	7.9	12.2	37	2.3	5.0	6.2	0.5	<1	4	3.1	0.1	
1429221	Rock	0.029	20.1	5	0.17	754	0.123	5.48	2.500	3.96	9.2	11.3	34	2.3	4.9	6.0	0.5	<1	4	2.3	0.3	
1429222	Rock	0.021	22.0	5	0.16	964	0.114	5.62	2.378	4.33	8.6	12.3	40	2.3	4.8	6.2	0.4	<1	4	2.2	0.2	
1429223	Rock	0.015	22.5	5	0.13	953	0.088	5.14	2.322	3.89	7.7	18.0	40	1.5	4.1	5.5	0.4	<1	3	2.2	0.2	
1429224	Rock	0.016	23.0	5	0.06	837	0.097	5.06	2.615	3.12	8.4	15.5	40	2.0	4.0	5.6	0.3	<1	3	3.2	0.2	
1429225	Rock Pulp	0.061	8.4	56	1.39	486	0.384	5.94	2.518	0.86	20.1	26.3	17	1.0	14.5	4.0	0.2	1	15	14.9	<0.1	
1429226	Rock	0.030	21.0	4	0.04	979	0.078	4.60	2.433	3.07	7.0	14.5	38	1.9	5.5	4.7	0.3	<1	2	3.1	0.2	
1429227	Rock	0.019	19.5	4	0.10	703	0.077	4.88	2.999	2.54	6.9	17.6	38	1.5	5.1	4.5	0.3	<1	4	2.8	0.2	
1429228	Rock	0.019	20.4	4	0.11	742	0.094	5.58	3.082	2.51	7.0	12.9	36	1.9	4.5	5.3	0.4	<1	3	2.6	0.2	
1429229	Rock	0.018	21.4	4	0.10	877	0.100	6.11	3.056	3.08	7.2	13.9	39	3.2	4.8	5.7	0.4	<1	3	3.0	0.2	
1429230	Rock	0.017	23.1	5	0.13	997	0.104	5.88	2.750	3.47	7.0	12.6	40	2.2	4.4	5.9	0.4	<1	3	2.2	0.1	
1429231	Rock	0.022	23.7	6	0.17	948	0.118	6.57	2.651	3.09	5.1	13.8	43	2.0	6.0	6.5	0.5	<1	4	3.4	0.1	
1429232	Rock	0.016	23.5	5	0.14	1048	0.092	5.45	1.976	3.27	3.6	10.9	41	1.9	4.9	5.2	0.3	<1	3	3.5	0.1	
1429233	Rock	0.018	20.2	5	0.20	1105	0.102	5.60	1.922	3.40	3.7	11.7	38	2.9	4.8	5.1	0.3	1	3	3.8	0.2	
1429234	Rock	0.016	21.6	5	0.16	1012	0.094	5.81	2.743	2.55	3.0	12.6	39	2.8	4.5	4.7	0.3	<1	3	3.1	0.1	
1429235	Rock	0.015	21.5	5	0.16	1023	0.090	5.89	2.732	2.60	2.8	13.0	39	2.6	4.6	4.6	0.3	1	3	2.9	0.1	
1429236	Rock	0.015	24.5	5	0.16	907	0.089	6.15	2.803	2.45	3.1	13.1	44	3.1	4.7	4.7	0.2	<1	3	3.2	0.1	
1429237	Rock	0.015	22.6	4	0.16	678	0.081	5.43	2.187	2.45	1.9	11.1	41	2.8	5.0	4.4	0.3	<1	3	4.7	<0.1	
1429238	Rock	0.016	23.8	5	0.16	893	0.087	5.84	2.299	2.97	2.2	14.2	42	3.5	5.7	5.2	0.3	1	4	4.3	<0.1	
1429239	Rock	0.019	22.3	5	0.24	1085	0.106	6.40	2.418	3.11	2.8	15.2	40	3.6	7.1	5.3	0.4	1	4	3.9	0.1	
1429240	Rock	0.018	18.3	5	0.25	1059	0.107	6.11	2.524	3.03	2.8	13.7	33	2.2	6.5	5.1	0.4	1	4	3.2	<0.1	
1429241	Rock	0.020	21.8	5	0.27	950	0.117	6.01	2.480	2.97	3.2	13.9	41	2.1	6.5	5.1	0.4	2	4	4.4	<0.1	
1429242	Rock	0.022	24.0	5	0.27	970	0.122	6.39	2.717	3.03	2.4	12.7	44	3.8	7.2	5.5	0.4	1	5	3.5	<0.1	



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Project: MPA

Report Date: October 27, 2015

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# CERTIFICATE OF ANALYSIS

WHI15000217.1

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
1429213	Rock	77.4	0.5	0.09	<0.005	<1	<0.5	0.6
1429214	Rock	74.1	0.4	0.10	<0.005	<1	<0.5	0.5
1429215	Rock	73.0	0.4	0.11	<0.005	<1	<0.5	0.5
1429216	Rock	69.0	0.5	0.10	<0.005	<1	<0.5	0.5
1429217	Rock	69.4	0.5	0.21	<0.005	<1	<0.5	0.6
1429218	Rock	68.3	0.4	0.19	<0.005	<1	<0.5	0.6
1429219	Rock	77.4	0.4	0.07	<0.005	<1	<0.5	0.7
1429220	Rock	79.1	0.4	0.07	<0.005	<1	<0.5	0.6
1429221	Rock	67.1	0.4	<0.05	<0.005	<1	<0.5	0.5
1429222	Rock	75.9	0.4	0.06	<0.005	<1	<0.5	0.6
1429223	Rock	70.6	0.6	<0.05	<0.005	<1	<0.5	0.5
1429224	Rock	57.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429225	Rock Pulp	15.1	0.9	0.05	<0.005	<1	<0.5	<0.5
1429226	Rock	51.5	0.4	0.06	<0.005	<1	<0.5	<0.5
1429227	Rock	45.8	0.6	0.07	<0.005	<1	<0.5	<0.5
1429228	Rock	52.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429229	Rock	69.3	0.4	0.06	<0.005	<1	<0.5	<0.5
1429230	Rock	71.7	0.4	0.05	<0.005	<1	<0.5	<0.5
1429231	Rock	78.1	0.4	<0.05	<0.005	<1	<0.5	0.5
1429232	Rock	76.8	0.4	<0.05	<0.005	<1	<0.5	0.5
1429233	Rock	77.9	0.4	0.12	0.007	<1	<0.5	0.5
1429234	Rock	62.7	0.4	0.13	<0.005	<1	<0.5	<0.5
1429235	Rock	63.7	0.3	0.08	0.007	<1	<0.5	<0.5
1429236	Rock	59.2	0.4	0.08	<0.005	<1	<0.5	<0.5
1429237	Rock	66.4	0.3	0.05	<0.005	<1	<0.5	<0.5
1429238	Rock	76.5	0.4	0.07	<0.005	<1	<0.5	0.5
1429239	Rock	88.2	0.5	0.09	<0.005	<1	<0.5	0.6
1429240	Rock	83.6	0.4	<0.05	0.008	<1	<0.5	0.5
1429241	Rock	80.7	0.4	<0.05	<0.005	<1	<0.5	0.5
1429242	Rock	86.2	0.3	0.10	<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

WHI15000217.1

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	1	0.1	0.1	0.1	1	0.01
1429243	Rock	1.09	0.508	29.6	55.0	25.0	69	0.4	6.2	5.1	477	2.05	5	1.3	8.0	88	0.2	2.6	0.9	41	0.15
1429244	Rock	2.76	0.676	82.8	152.9	51.6	63	0.9	4.2	3.5	165	2.29	21	1.2	8.7	93	0.2	6.9	1.4	25	0.08
1429245	Rock Pulp	0.07	1.547	9.3	51.7	8.7	66	0.3	41.7	13.2	803	4.50	10	0.6	1.9	270	0.2	2.4	0.2	138	2.67
1429246	Rock	2.31	0.735	55.7	222.5	58.8	62	0.7	2.0	8.9	120	2.34	9	1.2	10.2	89	0.3	2.5	0.6	19	0.12
1429247	Rock	2.38	0.222	10.6	70.1	29.8	46	0.2	5.2	2.6	176	1.07	3	0.8	12.6	101	0.1	2.1	<0.1	17	0.14
1429248	Rock	2.46	0.057	6.8	49.2	16.3	47	0.1	1.3	2.2	210	1.15	2	0.8	11.2	96	0.2	2.1	<0.1	20	0.32
1429249	Rock	2.13	0.210	16.3	32.5	15.8	58	0.4	3.3	3.2	347	1.53	1	1.2	11.6	82	0.3	1.0	0.4	31	0.19
1429250	Rock	2.11	0.171	16.1	44.7	16.4	32	0.1	1.9	1.9	216	1.02	2	0.9	12.9	88	<0.1	1.2	0.2	25	0.08
1429251	Rock	1.43	0.560	25.9	17.1	17.9	43	0.3	1.7	1.8	299	1.26	2	0.8	8.6	72	<0.1	1.2	0.2	29	0.16
1429252	Rock	1.97	1.615	21.6	25.5	16.9	26	0.7	1.9	2.0	296	1.21	2	0.7	7.5	75	<0.1	1.1	0.2	27	0.08
1429253	Rock	1.05	0.727	12.2	25.7	10.9	35	0.2	1.2	1.6	249	1.12	2	0.6	7.1	78	<0.1	0.9	0.1	27	0.12
1429254	Rock	2.48	1.909	16.2	25.6	17.2	50	0.6	2.1	2.7	343	1.49	5	0.9	7.8	87	<0.1	1.2	<0.1	29	0.11
1429255	Rock	2.36	1.927	18.9	22.2	20.8	55	0.6	2.9	3.2	394	1.51	3	1.0	7.5	89	<0.1	1.1	0.1	29	0.11
1429256	Rock	1.93	1.013	13.0	14.3	15.5	44	0.6	1.4	2.4	385	1.32	3	0.9	9.6	85	0.1	1.4	0.1	29	0.09
1429257	Rock	2.21	0.467	17.5	57.5	12.9	54	0.2	1.2	2.4	455	1.43	2	0.9	8.7	89	0.1	1.3	<0.1	32	0.52
1429258	Rock	1.60	0.929	40.5	22.3	18.0	47	0.4	2.9	2.8	417	1.36	4	1.0	7.7	74	<0.1	2.0	0.3	27	0.15
1429259	Rock	2.59	0.792	42.2	18.2	18.2	42	0.3	3.0	2.6	361	1.37	9	0.9	8.0	77	<0.1	2.0	0.3	26	0.17
1429260	Rock	2.30	0.447	20.3	21.8	13.9	44	0.2	2.0	2.3	298	1.52	6	1.1	8.2	84	<0.1	1.6	0.1	27	0.43



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Project: MPA

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# CERTIFICATE OF ANALYSIS

WHI15000217.1

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	0.001	0.01	0.01	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
1429243	Rock	0.024	23.1	7	0.13	637	0.165	5.99	1.781	2.76	4.4	17.5	44	2.5	7.1	6.6	0.5	1	6	9.3	<0.1
1429244	Rock	0.016	20.6	6	0.07	1280	0.095	6.45	1.739	4.29	5.0	16.8	36	4.7	5.5	6.3	0.5	<1	4	3.5	<0.1
1429245	Rock Pulp	0.066	9.3	61	1.40	515	0.382	6.50	2.449	0.93	0.9	27.8	20	1.9	14.7	4.2	0.2	<1	15	17.2	<0.1
1429246	Rock	0.011	19.5	5	0.08	1447	0.075	5.66	1.841	3.81	2.7	19.8	35	5.9	7.1	6.1	0.5	1	3	5.5	<0.1
1429247	Rock	0.011	29.9	7	0.07	1361	0.072	5.74	1.962	4.23	2.9	25.0	53	3.1	6.8	5.6	0.3	<1	3	3.2	<0.1
1429248	Rock	0.013	27.1	4	0.09	1000	0.077	6.04	2.508	3.12	2.6	22.6	50	1.3	7.0	5.9	0.4	1	3	2.9	<0.1
1429249	Rock	0.022	27.5	8	0.10	1056	0.093	6.08	2.199	3.74	4.8	25.4	51	1.6	7.9	7.5	0.7	1	5	4.1	<0.1
1429250	Rock	0.011	30.7	5	0.04	1239	0.056	5.64	2.414	4.09	4.8	30.4	57	1.2	4.7	4.4	0.3	<1	3	4.1	<0.1
1429251	Rock	0.014	22.2	5	0.06	1201	0.091	5.39	2.376	3.10	5.9	14.5	40	1.6	4.9	6.0	0.5	1	4	5.6	<0.1
1429252	Rock	0.015	20.6	4	0.05	1001	0.082	5.54	2.402	3.14	6.4	13.2	39	2.1	3.4	5.3	0.5	<1	3	4.1	<0.1
1429253	Rock	0.011	23.2	3	0.06	896	0.072	5.54	2.346	3.05	4.5	13.6	41	1.7	3.6	4.4	0.4	<1	3	6.4	<0.1
1429254	Rock	0.019	22.1	4	0.08	1261	0.100	6.26	1.916	4.04	7.8	14.9	40	2.9	4.3	6.0	0.5	<1	4	4.6	<0.1
1429255	Rock	0.019	21.1	<1	0.08	1395	0.098	6.15	1.732	4.36	7.6	15.2	38	2.7	4.5	6.0	0.5	<1	4	4.3	<0.1
1429256	Rock	0.017	24.7	3	0.09	775	0.098	5.94	1.574	3.41	7.2	17.7	43	2.2	4.8	6.0	0.5	<1	4	8.2	<0.1
1429257	Rock	0.019	24.0	5	0.08	1019	0.100	6.22	2.267	3.43	6.5	13.2	44	2.2	4.7	6.3	0.4	1	4	5.5	<0.1
1429258	Rock	0.017	19.9	5	0.10	877	0.088	5.07	1.310	3.11	6.8	15.1	36	2.0	4.6	5.6	0.4	1	4	8.0	<0.1
1429259	Rock	0.016	21.4	5	0.11	793	0.090	5.46	1.286	3.17	6.3	15.5	39	1.8	4.5	5.5	0.4	1	4	6.3	<0.1
1429260	Rock	0.020	21.4	5	0.11	835	0.100	5.48	1.587	3.49	6.3	15.8	39	1.9	5.7	5.3	0.4	1	4	5.2	<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
1429243	Rock	70.6	0.5	0.08	<0.005	<1	1.1	0.6
1429244	Rock	100.2	0.5	<0.05	<0.005	<1	0.9	0.7
1429245	Rock Pulp	18.4	0.8	0.05	<0.005	<1	<0.5	<0.5
1429246	Rock	90.6	0.6	0.07	<0.005	<1	<0.5	0.6
1429247	Rock	98.6	0.8	0.06	<0.005	<1	<0.5	0.6
1429248	Rock	73.3	0.7	0.08	<0.005	<1	<0.5	0.5
1429249	Rock	87.8	0.7	<0.05	<0.005	<1	<0.5	0.6
1429250	Rock	81.2	0.9	<0.05	<0.005	<1	<0.5	0.6
1429251	Rock	65.6	0.5	<0.05	<0.005	<1	<0.5	0.5
1429252	Rock	61.2	0.4	<0.05	<0.005	<1	0.8	<0.5
1429253	Rock	63.1	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429254	Rock	82.2	0.5	<0.05	<0.005	<1	<0.5	0.7
1429255	Rock	89.1	0.5	0.07	<0.005	<1	0.6	0.8
1429256	Rock	75.7	0.6	0.08	<0.005	<1	0.6	0.6
1429257	Rock	76.0	0.4	0.07	<0.005	<1	<0.5	0.6
1429258	Rock	68.0	0.4	0.06	<0.005	<1	<0.5	0.6
1429259	Rock	71.0	0.5	<0.05	<0.005	<1	<0.5	0.7
1429260	Rock	80.0	0.4	0.06	<0.005	<1	<0.5	0.7





# QUALITY CONTROL REPORT

WHI15000217.1

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																					
1429132	Rock	2.19	0.102	6.3	69.0	15.9	84	0.2	1.6	2.9	444	1.59	3	1.0	8.2	86	0.1	0.5	0.1	18	0.80
REP 1429132	QC			5.4	67.6	16.2	81	0.1	1.3	2.4	447	1.60	3	1.1	8.1	85	0.3	0.5	0.1	18	0.79
1429164	Rock	1.78	0.420	62.3	104.1	20.9	204	0.2	4.0	4.9	708	3.49	8	2.4	9.2	82	1.2	4.7	0.5	70	1.73
REP 1429164	QC		0.393																		
1429167	Rock	1.85	0.083	3.9	24.2	13.3	55	<0.1	5.0	3.2	372	2.81	3	1.7	10.3	72	0.2	1.9	0.3	54	1.02
REP 1429167	QC			3.0	25.1	13.7	59	<0.1	5.2	3.0	377	2.85	3	1.9	10.2	72	<0.1	1.7	0.4	55	1.01
1429195	Rock	2.24	0.165	4.8	13.0	9.4	32	<0.1	1.4	1.2	189	1.11	1	0.5	7.0	99	<0.1	0.5	<0.1	15	0.20
REP 1429195	QC		0.163																		
1429202	Rock	2.61	0.364	9.5	34.6	10.6	40	0.2	1.8	2.9	335	1.87	3	0.7	8.2	85	<0.1	0.7	0.2	29	0.43
REP 1429202	QC			8.9	32.1	10.5	38	0.1	1.3	2.8	329	1.85	3	0.8	8.5	89	0.1	0.7	0.2	28	0.46
1429237	Rock	1.34	0.064	7.1	25.0	12.5	51	<0.1	1.4	1.9	264	1.29	3	0.8	7.2	98	<0.1	0.9	<0.1	22	0.60
REP 1429237	QC			8.6	26.3	13.0	53	<0.1	1.2	1.9	273	1.31	1	0.8	7.4	100	<0.1	0.8	<0.1	22	0.61
1429240	Rock	2.39	0.025	47.0	76.1	11.0	54	<0.1	1.0	2.9	390	1.68	1	1.3	7.4	117	<0.1	0.8	<0.1	31	1.19
REP 1429240	QC		0.032																		
Core Reject Duplicates																					
1429143	Rock	3.36	0.560	7.4	66.6	11.2	70	0.2	1.9	2.6	410	1.71	2	1.6	7.9	97	0.1	0.7	<0.1	20	0.96
DUP 1429143	QC		0.669	6.8	64.4	10.6	69	0.2	1.2	2.8	398	1.66	3	1.5	7.3	94	0.5	0.7	0.1	20	0.94
1429177	Rock	4.57	0.095	6.0	35.9	14.9	62	0.2	1.9	2.7	311	1.85	2	1.2	10.2	106	0.2	1.2	0.4	36	0.69
DUP 1429177	QC		0.085	5.7	34.4	14.1	55	0.2	1.8	2.5	300	1.83	1	1.2	10.0	102	0.2	1.0	0.4	35	0.67
1429211	Rock	0.97	0.038	1.7	39.2	8.9	57	<0.1	1.1	3.8	316	2.16	3	1.2	8.8	111	0.1	1.2	0.1	27	0.89
DUP 1429211	QC		0.049	1.4	39.2	9.1	58	0.1	1.9	4.0	325	2.13	4	1.2	9.0	113	0.1	1.4	0.2	27	0.87
Reference Materials																					
STD OREAS25A-4A	Standard			2.5	36.7	26.8	42	<0.1	49.9	8.3	511	6.94	10	3.1	16.6	49	<0.1	0.7	0.4	167	0.28
STD OREAS25A-4A	Standard			2.7	34.8	25.5	44	<0.1	50.2	7.6	520	6.69	11	2.9	15.4	49	0.1	0.8	0.4	160	0.28
STD OREAS25A-4A	Standard			2.4	32.8	24.9	40	<0.1	46.4	7.6	452	6.27	10	2.9	14.1	43	<0.1	0.7	0.3	149	0.25
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 OREAS25A-4A	Standard			3.2	35.3	26.5	51	<0.1	52.3	8.6	545	6.94	12	2.9	14.9	50	<0.1	0.6	0.4	160	0.31
STD OREAS45E	Standard			2.4	783.1	19.3	46	0.4	467.4	59.4	556	24.86	16	2.6	13.5	16	<0.1	1.0	0.3	306	0.06



# 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																					
1429132	Rock	0.016	22.6	4	0.19	979	0.099	6.35	2.234	2.91	3.6	17.1	46	1.8	6.4	6.4	0.4	<1	4	5.3	<0.1
REP 1429132	QC	0.015	22.5	4	0.18	953	0.102	6.46	2.274	2.99	3.9	16.9	44	2.3	6.2	5.9	0.4	1	4	5.5	<0.1
1429164	Rock	0.047	22.8	6	0.20	471	0.202	6.47	1.621	2.95	8.7	24.8	47	11.4	10.3	10.0	0.7	2	9	8.6	<0.1
REP 1429164	QC																				
1429167	Rock	0.027	25.8	10	0.26	232	0.145	6.60	2.837	2.23	5.3	26.1	51	6.6	10.2	7.8	0.6	1	8	4.5	<0.1
REP 1429167	QC	0.029	25.2	11	0.26	243	0.150	6.56	2.866	2.22	5.4	27.3	50	6.4	11.1	8.0	0.7	2	8	4.4	<0.1
1429195	Rock	0.014	21.8	5	0.10	755	0.076	5.84	3.148	3.03	3.3	13.9	40	2.2	5.4	4.8	0.3	1	3	3.7	<0.1
REP 1429195	QC																				
1429202	Rock	0.030	22.7	7	0.07	1071	0.115	7.04	3.675	3.22	5.8	14.7	44	2.0	5.1	6.2	0.4	1	4	2.8	<0.1
REP 1429202	QC	0.030	23.6	7	0.07	1053	0.115	6.88	3.665	3.18	6.1	15.2	46	1.9	5.4	6.4	0.4	<1	4	2.6	<0.1
1429237	Rock	0.015	22.6	4	0.16	678	0.081	5.43	2.187	2.45	1.9	11.1	41	2.8	5.0	4.4	0.3	<1	3	4.7	<0.1
REP 1429237	QC	0.015	23.9	4	0.17	682	0.086	5.47	2.243	2.51	2.0	11.4	41	3.0	5.3	4.6	0.3	<1	3	4.9	<0.1
1429240	Rock	0.018	18.3	5	0.25	1059	0.107	6.11	2.524	3.03	2.8	13.7	33	2.2	6.5	5.1	0.4	1	4	3.2	<0.1
REP 1429240	QC																				
Core Reject Duplicates																					
1429143	Rock	0.020	20.1	6	0.23	974	0.128	6.71	2.050	4.52	7.5	19.3	44	3.3	6.4	8.5	0.6	<1	4	5.1	0.2
DUP 1429143	QC	0.024	18.9	5	0.22	909	0.124	6.52	2.050	4.36	6.5	17.7	39	3.0	5.9	7.9	0.6	1	4	5.9	0.2
1429177	Rock	0.022	25.4	5	0.17	916	0.119	6.50	2.520	3.02	3.5	20.7	51	2.9	8.5	8.0	0.7	2	5	3.4	<0.1
DUP 1429177	QC	0.021	24.5	5	0.16	884	0.118	6.37	2.435	2.99	3.5	20.8	47	2.8	8.5	8.0	0.6	2	5	2.9	<0.1
1429211	Rock	0.045	25.7	4	0.17	793	0.166	6.68	2.898	2.79	2.9	16.0	46	2.4	9.0	7.1	0.5	1	6	10.0	<0.1
DUP 1429211	QC	0.046	26.4	<1	0.17	847	0.173	6.62	2.883	2.76	3.2	17.6	48	2.5	9.2	7.4	0.6	1	6	10.1	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	22.3	127	0.33	154	0.950	9.06	0.147	0.52	2.0	158.5	51	4.3	10.8	20.3	1.4	<1	14	40.3	<0.1
STD OREAS25A-4A	Standard	0.051	21.5	119	0.34	152	0.936	8.51	0.132	0.51	1.7	156.3	48	4.1	10.5	20.5	1.5	<1	13	37.4	<0.1
STD OREAS25A-4A	Standard	0.047	19.0	116	0.29	144	0.900	8.15	0.135	0.48	1.9	150.3	41	4.3	9.6	20.0	1.4	<1	12	36.1	<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 OREAS25A-4A	Standard	0.051	19.6	130	0.37	153	0.950	9.57	0.143	0.54	2.0	162.1	47	3.6	10.0	21.4	1.4	<1	14	41.1	<0.1
STD OREAS45E	Standard	0.035	11.3	978	0.15	254	0.525	6.81	0.054	0.34	1.0	97.8	24	1.4	7.7	6.1	0.5	<1	94	6.7	<0.1



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Suite 1100, 1111 Melville St,  
Vancouver BC V6E 3V6 CANADA

Project: MPA  
Report Date: October 27, 2015

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# QUALITY CONTROL REPORT

WHI15000217.1

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								
1429132	Rock	84.2	0.4	0.06	<0.005	1	<0.5	0.5
REP 1429132	QC	82.9	0.5	0.07	<0.005	<1	<0.5	0.6
1429164	Rock	65.2	0.7	0.35	<0.005	<1	<0.5	0.9
REP 1429164	QC							
1429167	Rock	66.2	0.9	0.32	0.005	1	<0.5	0.5
REP 1429167	QC	66.9	0.8	0.14	0.007	<1	<0.5	<0.5
1429195	Rock	67.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
REP 1429195	QC							
1429202	Rock	69.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
REP 1429202	QC	68.9	0.4	0.07	<0.005	<1	<0.5	<0.5
1429237	Rock	66.4	0.3	0.05	<0.005	<1	<0.5	<0.5
REP 1429237	QC	68.1	0.4	0.06	<0.005	<1	<0.5	<0.5
1429240	Rock	83.6	0.4	<0.05	0.008	<1	<0.5	0.5
REP 1429240	QC							
Core Reject Duplicates								
1429143	Rock	102.9	0.5	0.16	0.006	1	<0.5	0.7
DUP 1429143	QC	95.1	0.6	0.14	<0.005	<1	<0.5	0.8
1429177	Rock	87.7	0.7	0.13	<0.005	<1	<0.5	<0.5
DUP 1429177	QC	85.4	0.6	0.11	<0.005	<1	<0.5	0.6
1429211	Rock	67.2	0.5	0.10	<0.005	<1	<0.5	<0.5
DUP 1429211	QC	67.6	0.4	0.05	<0.005	<1	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	60.2	4.4	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.7	4.4	<0.05	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	51.5	4.2	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	54.6	4.4	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.6	4.5	0.14	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.8	2.9	0.09	<0.005	3	<0.5	<0.5



# QUALITY CONTROL REPORT

WHI15000217.1

		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	%	
		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			2.3	816.9	19.1	50	0.3	487.3	60.7	634	25.83	19	2.6	14.0	18	<0.1	1.1	0.3	323	0.08	
STD OREAS45E	Standard			2.3	794.1	19.8	46	0.3	478.7	62.0	574	25.80	17	2.6	13.6	18	<0.1	1.2	0.3	323	0.07	
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 OREAS45E	Standard			3.0	797.4	21.1	44	0.4	479.9	61.6	678	26.73	19	2.5	13.0	17	<0.1	1.1	0.3	333	0.08	
STD OXD108	Standard		0.422																			
STD OXD108	Standard		0.424																			
STD OXD108	Standard		0.416																			
STD OXD108	Standard		0.437																			
STD OXD108	Standard		0.418																			
STD OXI121	Standard		1.809																			
STD OXI121	Standard		1.830																			
STD OXI121	Standard		1.801																			
STD OXI121	Standard		1.820																			
STD OXI121	Standard		1.842																			
STD OXN117	Standard		7.647																			
STD OXN117	Standard		7.855																			
STD OXN117	Standard		7.770																			
STD OXN117	Standard		7.675																			
STD OXN117	Standard		7.583																			
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																			
BLK	Blank		<0.005																			
BLK	Blank		0.006																			
BLK	Blank		<0.005																			
BLK	Blank		<0.005																			



# QUALITY CONTROL REPORT

WHI15000217.1

		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	0.036	11.0	1072	0.18	255	0.557	7.10	0.064	0.37	1.0	101.8	25	1.2	8.4	6.3	0.5	<1	98	7.6	<0.1
STD OREAS45E	Standard	0.035	10.7	1055	0.16	263	0.553	7.16	0.063	0.36	1.0	102.6	23	1.3	8.3	6.3	0.6	<1	96	6.6	<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 OREAS45E	Standard	0.037	8.9	1081	0.17	279	0.581	7.60	0.067	0.37	1.1	106.0	21	1.2	7.1	6.6	0.6	<1	99	8.2	<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 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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BLK	Blank																				
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Project: MPA  
Report Date: October 27, 2015

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# QUALITY CONTROL REPORT

WHI15000217.1

		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	22.1	3.1	0.08	0.006	3	<0.5	<0.5
STD OREAS45E	Standard	21.5	3.0	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	17.0	3.1	0.10	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	20.8	3.1	0.09	<0.005	2	<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 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							



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Project: MPA  
Report Date: October 27, 2015

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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			<0.1	<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	0.2	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
BLK	Blank			<0.1	0.2	<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	0.7	2.2	3.3	35	<0.1	0.7	4.3	680	2.01	2	1.2	2.8	221	<0.1	<0.1	<0.1	36	1.73	
ROCK-WHI	Prep Blank	<0.005	0.6	1.6	3.0	37	<0.1	0.9	4.2	685	1.94	2	1.1	2.6	204	<0.1	<0.1	<0.1	34	1.67	



# 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	
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	<1	<1	<1	0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<0.1	<0.1	
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	<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	<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	<0.1	<1	<0.1	<0.1	<0.1	<1	<1	<1	0.1	<0.1	
Prep Wash																						
ROCK-WHI	Prep Blank	0.047	11.4	5	0.49	861	0.229	7.10	3.527	1.89	0.3	55.9	25	0.9	16.9	6.1	0.4	1	7	1.8	<0.1	
ROCK-WHI	Prep Blank	0.041	10.9	2	0.46	794	0.205	6.41	3.230	1.72	0.5	52.1	23	0.9	16.2	5.8	0.4	<1	7	1.4	<0.1	





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# QUALITY CONTROL REPORT

WHI15000217.1

		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							
BLK	Blank							
BLK	Blank							
BLK	Blank							
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
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
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-WHI	Prep Blank	37.8	2.1	<0.05	<0.005	<1	<0.5	<0.5
ROCK-WHI	Prep Blank	35.4	1.6	<0.05	<0.005	<1	<0.5	<0.5