



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 30, 2015
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI15000218.1

CLIENT JOB INFORMATION

Project: MPA
Shipment ID: MPA2015-10-01
P.O. Number
Number of Samples: 66

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	62	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	66	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
MA200	66	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

WHI15000218.1

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
1429261	Rock	3.59	0.335	17.0	27.0	13.8	54	0.2	2.7	2.7	382	1.71	5	1.3	8.3	106	<0.1	1.1	0.2	21	0.70
1429262	Rock	3.93	0.697	13.9	33.4	13.2	63	0.2	2.1	2.9	369	1.69	3	1.2	8.1	125	0.2	0.9	0.1	20	0.94
1429263	Rock	3.54	0.139	15.6	30.3	12.5	76	0.1	2.0	2.8	394	1.74	2	1.2	8.2	128	0.3	1.0	0.1	21	0.95
1429264	Rock	3.02	0.546	11.6	32.2	19.4	71	0.2	2.2	2.9	478	1.76	3	1.2	8.2	105	0.3	1.4	0.2	27	1.15
1429265	Rock Pulp	0.07	<0.005	2.4	26.7	4.8	63	0.2	32.1	14.9	727	3.57	5	0.5	1.5	261	0.1	0.8	<0.1	131	2.72
1429266	Rock	4.92	0.382	7.7	24.6	14.3	71	0.2	1.8	2.5	383	1.67	<1	1.2	8.0	95	0.3	1.4	<0.1	31	0.95
1429267	Rock	2.43	0.594	8.8	24.4	11.8	71	0.2	3.1	2.7	423	1.72	3	2.3	8.3	85	0.2	1.3	<0.1	33	0.93
1429268	Rock	2.46	0.777	9.4	24.2	11.5	53	0.6	2.1	2.1	312	1.54	2	1.3	7.9	70	0.3	1.3	0.1	30	0.50
1429269	Rock	3.91	0.856	10.5	19.3	11.0	51	0.4	2.2	2.2	337	1.55	1	1.0	7.4	70	0.1	1.1	<0.1	30	0.62
1429270	Rock	2.58	0.808	9.2	21.8	12.7	49	0.3	1.8	2.4	426	1.48	2	0.8	6.8	76	0.2	1.0	<0.1	32	0.91
1429271	Rock	2.40	0.264	8.3	21.2	11.5	39	0.2	1.9	2.2	379	1.40	<1	0.7	6.6	73	<0.1	0.8	0.1	36	0.92
1429272	Rock	2.74	0.259	8.5	20.7	10.7	42	0.1	1.7	2.1	328	1.43	<1	0.8	7.1	74	<0.1	0.9	<0.1	37	0.72
1429273	Rock	3.50	0.183	8.3	25.6	13.3	60	0.2	2.2	2.7	391	1.72	3	1.0	8.2	91	0.2	0.7	0.1	34	0.86
1429274	Rock	1.48	0.154	15.9	23.2	12.1	71	0.2	3.6	4.2	456	2.14	1	1.2	5.4	68	0.3	0.8	0.2	50	1.73
1429275	Rock	1.20	0.148	13.7	24.7	12.3	67	0.1	4.0	4.1	537	2.15	1	1.1	6.4	77	0.3	0.8	0.2	48	1.49
1429276	Rock	1.98	0.142	20.9	28.0	12.3	59	0.1	3.4	3.8	556	1.89	<1	1.1	6.1	85	0.2	0.8	0.2	41	1.31
1429277	Rock	2.70	0.045	18.0	35.9	11.6	60	<0.1	1.9	3.8	614	1.82	1	1.1	7.4	111	0.1	0.6	0.2	30	1.43
1429278	Rock	1.95	0.308	20.6	61.8	11.9	61	0.4	1.6	3.3	501	1.83	2	1.1	6.0	102	<0.1	0.9	0.6	29	1.14
1429279	Rock	2.11	0.195	15.9	28.8	11.4	67	0.1	1.2	4.7	565	2.35	1	1.1	6.0	95	0.3	1.1	0.2	48	1.43
1429280	Rock	1.89	0.228	9.1	18.2	10.3	80	0.2	1.4	5.6	579	2.90	2	1.0	4.9	84	<0.1	1.4	0.2	62	1.42
1429281	Rock	1.70	0.253	8.2	15.6	10.7	59	0.2	1.0	3.2	396	1.96	2	0.8	6.4	97	0.1	1.0	0.1	37	1.10
1429282	Rock	1.98	0.137	7.6	28.5	10.7	58	0.1	2.0	2.9	353	1.81	1	1.0	7.2	95	0.1	0.8	0.1	27	1.14
1429283	Rock	1.95	0.112	6.8	67.7	11.6	53	0.1	1.4	2.5	320	1.65	1	0.9	8.0	110	0.2	0.7	<0.1	20	1.16
1429284	Rock	2.52	0.058	4.5	34.7	11.7	54	<0.1	1.8	2.6	391	1.73	<1	1.1	6.9	127	<0.1	0.5	<0.1	20	1.30
1429285	Rock Pulp	0.07	1.443	8.1	47.3	8.2	63	0.2	38.6	12.5	747	4.35	8	0.5	1.4	242	<0.1	1.9	0.1	131	2.57
1429286	Rock	0.83	0.098	7.5	57.2	15.5	52	<0.1	2.5	2.8	335	1.59	1	1.0	8.3	124	<0.1	0.7	<0.1	12	1.07
1429287	Rock	1.23	0.069	4.2	87.7	15.3	43	<0.1	1.5	1.8	302	1.48	1	0.9	7.1	118	0.2	1.1	<0.1	14	0.97
1429288	Rock	1.24	0.265	9.5	41.1	15.7	48	<0.1	3.8	3.0	308	1.59	3	1.0	8.7	82	<0.1	1.2	0.1	23	0.16
1429289	Rock	3.17	0.156	7.6	21.4	7.5	35	0.2	3.8	2.3	273	1.42	2	1.4	11.5	57	<0.1	0.9	<0.1	14	0.31
1429290	Rock	2.45	0.216	11.1	15.1	6.3	39	<0.1	2.2	2.6	317	1.50	2	1.3	9.0	54	<0.1	0.7	<0.1	17	0.24



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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	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
1429261	Rock	0.017	21.8	6	0.13	1012	0.108	5.91	1.922	3.32	6.7	15.1	40	2.0	6.1	5.9	0.4	1	4	4.0	<0.1	
1429262	Rock	0.017	21.7	6	0.15	1361	0.102	6.04	2.245	3.39	6.8	12.5	41	1.8	6.1	5.6	0.4	1	4	3.7	<0.1	
1429263	Rock	0.019	20.9	5	0.19	1497	0.109	5.99	2.265	3.15	7.6	14.1	38	2.4	5.6	5.9	0.4	1	4	3.9	<0.1	
1429264	Rock	0.020	20.9	6	0.22	1308	0.105	6.38	2.292	3.72	9.4	13.0	38	2.3	4.9	6.0	0.4	<1	5	3.6	0.1	
1429265	Rock Pulp	0.061	7.0	56	1.38	444	0.393	6.21	2.483	0.85	19.2	25.4	15	0.7	12.7	3.8	0.3	<1	15	15.4	<0.1	
1429266	Rock	0.017	23.7	7	0.19	1065	0.099	6.31	2.492	3.49	8.4	11.4	41	1.8	4.5	5.6	0.4	1	4	3.2	<0.1	
1429267	Rock	0.020	21.4	8	0.17	978	0.100	6.27	2.505	3.37	7.6	11.8	39	1.8	4.8	5.3	0.4	<1	4	3.0	<0.1	
1429268	Rock	0.018	22.4	6	0.13	752	0.097	5.22	1.873	3.15	8.0	14.3	39	1.5	4.2	5.3	0.4	<1	4	7.4	<0.1	
1429269	Rock	0.016	20.0	6	0.11	708	0.091	5.44	1.881	3.21	6.8	12.9	37	1.8	3.8	5.0	0.3	1	4	4.7	<0.1	
1429270	Rock	0.018	17.9	6	0.13	817	0.100	5.26	2.213	3.04	7.4	13.2	32	1.7	3.7	5.6	0.4	<1	4	4.6	<0.1	
1429271	Rock	0.016	16.1	6	0.12	825	0.090	5.22	2.348	2.80	8.0	12.9	29	1.4	3.6	4.9	0.3	<1	4	3.9	<0.1	
1429272	Rock	0.017	18.5	5	0.11	830	0.092	5.34	2.485	2.71	7.0	12.8	33	1.8	3.6	5.1	0.3	<1	3	3.9	<0.1	
1429273	Rock	0.020	21.4	8	0.14	912	0.106	6.19	2.558	2.81	6.8	13.8	38	2.4	5.2	5.9	0.4	1	5	3.8	<0.1	
1429274	Rock	0.031	14.3	12	0.14	684	0.107	5.64	2.518	2.81	5.4	12.0	28	3.3	4.6	5.5	0.4	<1	7	3.8	<0.1	
1429275	Rock	0.029	14.9	12	0.15	774	0.115	5.85	2.506	2.85	6.3	13.9	29	2.9	5.0	6.1	0.4	<1	6	4.1	<0.1	
1429276	Rock	0.028	15.9	10	0.25	747	0.107	5.93	2.722	2.80	6.2	12.8	31	3.2	4.8	5.7	0.4	<1	6	3.5	<0.1	
1429277	Rock	0.026	19.0	8	0.30	813	0.129	7.51	3.133	2.40	7.6	15.7	36	3.4	5.8	7.1	0.5	1	6	3.8	<0.1	
1429278	Rock	0.024	15.4	5	0.24	744	0.122	5.65	2.624	2.64	6.6	12.1	30	3.0	5.0	5.4	0.4	1	5	3.3	0.1	
1429279	Rock	0.037	18.7	5	0.34	926	0.170	5.68	1.957	3.18	5.0	12.8	36	2.4	6.2	5.1	0.3	1	7	3.9	<0.1	
1429280	Rock	0.049	16.9	5	0.41	976	0.207	6.02	1.829	3.17	5.9	11.5	34	2.4	7.1	5.0	0.4	2	9	4.7	<0.1	
1429281	Rock	0.027	16.3	4	0.25	880	0.134	5.72	2.228	3.11	4.8	10.7	31	2.8	5.6	4.4	0.3	1	6	4.1	<0.1	
1429282	Rock	0.024	17.4	5	0.22	749	0.121	5.46	2.279	2.59	3.6	14.3	33	2.6	6.4	5.4	0.4	1	5	6.4	<0.1	
1429283	Rock	0.021	20.8	5	0.18	776	0.105	6.04	2.579	2.40	3.3	14.5	40	3.8	6.5	5.2	0.3	1	4	4.6	<0.1	
1429284	Rock	0.029	17.0	5	0.19	713	0.123	5.95	2.714	2.08	2.9	15.4	33	3.5	8.3	5.7	0.4	1	4	4.1	<0.1	
1429285	Rock Pulp	0.058	7.1	59	1.34	466	0.374	6.13	2.335	0.85	0.8	26.6	15	2.0	12.5	3.9	0.2	<1	14	14.8	<0.1	
1429286	Rock	0.019	21.8	8	0.16	1113	0.097	6.34	2.626	2.73	2.5	16.3	40	3.4	6.8	5.4	0.4	1	4	3.7	0.1	
1429287	Rock	0.013	20.1	5	0.15	1159	0.081	5.78	2.452	3.07	2.7	13.8	36	2.9	5.2	4.6	0.3	<1	3	2.6	<0.1	
1429288	Rock	0.015	24.0	6	0.10	818	0.109	5.60	2.123	2.81	4.1	19.7	45	1.8	4.3	6.2	0.4	1	4	4.8	<0.1	
1429289	Rock	0.010	29.4	6	0.07	564	0.085	5.53	2.999	1.68	4.2	23.8	53	1.4	6.1	6.6	0.5	1	4	2.7	<0.1	
1429290	Rock	0.014	27.4	5	0.07	735	0.093	5.36	3.100	1.73	3.9	19.6	47	2.0	5.9	6.1	0.5	<1	4	2.7	<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
1429261	Rock	78.6	0.5	<0.05	<0.005	<1	<0.5	0.6
1429262	Rock	76.8	0.4	<0.05	<0.005	<1	<0.5	0.5
1429263	Rock	76.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429264	Rock	81.4	0.3	0.14	0.013	<1	<0.5	0.6
1429265	Rock Pulp	12.9	0.8	0.07	<0.005	<1	<0.5	<0.5
1429266	Rock	78.9	0.3	<0.05	0.006	<1	<0.5	0.6
1429267	Rock	78.1	0.4	<0.05	<0.005	<1	<0.5	0.6
1429268	Rock	68.1	0.4	<0.05	<0.005	<1	0.5	0.5
1429269	Rock	64.3	0.3	<0.05	<0.005	<1	<0.5	<0.5
1429270	Rock	59.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
1429271	Rock	56.0	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429272	Rock	57.0	0.4	0.05	<0.005	<1	<0.5	<0.5
1429273	Rock	68.5	0.5	0.08	<0.005	<1	<0.5	<0.5
1429274	Rock	60.4	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429275	Rock	63.0	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429276	Rock	61.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429277	Rock	64.8	0.5	0.11	<0.005	<1	<0.5	<0.5
1429278	Rock	63.4	0.3	0.08	<0.005	<1	<0.5	<0.5
1429279	Rock	82.7	0.3	0.08	<0.005	<1	<0.5	0.6
1429280	Rock	94.8	0.3	<0.05	<0.005	<1	<0.5	0.6
1429281	Rock	79.2	0.3	0.11	<0.005	<1	<0.5	<0.5
1429282	Rock	69.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429283	Rock	66.5	0.4	0.06	<0.005	<1	<0.5	<0.5
1429284	Rock	62.4	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429285	Rock Pulp	14.0	0.8	<0.05	<0.005	<1	<0.5	<0.5
1429286	Rock	76.1	0.5	0.05	<0.005	<1	<0.5	0.6
1429287	Rock	76.6	0.4	<0.05	<0.005	<1	<0.5	0.5
1429288	Rock	66.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429289	Rock	39.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
1429290	Rock	41.3	0.6	<0.05	<0.005	<1	<0.5	<0.5



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CERTIFICATE OF ANALYSIS

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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	
1429291	Rock	2.66	0.013	9.5	33.6	10.3	97	<0.1	1.5	5.3	481	2.80	2	1.5	7.4	78	0.2	1.3	0.2	46	0.66
1429292	Rock	2.64	0.060	6.3	13.1	11.7	76	<0.1	2.4	4.2	499	2.04	3	1.5	9.9	97	0.1	1.0	0.1	27	1.02
1429293	Rock	2.77	0.103	8.0	7.8	8.3	68	<0.1	1.7	3.5	429	1.94	<1	1.0	9.2	72	0.1	1.2	<0.1	33	0.62
1429294	Rock	2.78	0.420	21.0	19.3	15.5	80	0.1	2.4	3.7	692	2.21	<1	1.2	6.8	71	0.2	1.3	0.2	40	0.49
1429295	Rock	2.04	0.285	20.2	19.4	9.9	83	0.1	2.4	3.7	667	2.15	2	1.2	6.8	69	0.2	1.4	0.1	40	0.49
1429296	Rock	2.68	0.033	17.9	44.5	14.0	83	2.1	2.4	3.4	471	1.89	1	1.0	7.8	95	0.2	1.4	0.2	29	0.70
1429297	Rock	2.08	0.287	13.2	18.9	12.4	57	0.3	2.2	2.8	353	1.64	2	0.9	7.5	59	0.2	1.4	<0.1	25	0.29
1429298	Rock	2.27	0.489	8.3	77.4	12.4	49	0.4	2.0	3.6	287	1.83	2	0.9	6.7	111	0.1	1.6	0.4	26	0.17
1429299	Rock	1.82	1.174	18.2	54.4	28.9	52	0.4	2.0	3.5	403	1.83	2	1.1	4.7	82	<0.1	1.3	0.2	27	0.14
1429300	Rock	1.96	0.375	11.5	23.7	14.0	30	0.1	1.6	1.8	282	1.26	3	0.8	5.7	84	<0.1	1.6	<0.1	26	0.18
1429301	Rock	1.60	0.589	17.5	23.1	12.2	36	0.2	1.6	1.9	317	1.47	2	0.9	7.5	98	0.1	1.3	<0.1	37	0.13
1429302	Rock	1.31	0.176	17.0	17.3	9.1	32	0.1	1.2	1.5	252	1.19	2	0.5	6.2	79	0.2	0.8	0.1	27	0.48
1429303	Rock	1.08	0.191	18.1	29.1	10.9	62	0.4	1.5	2.7	320	1.87	2	0.9	7.0	83	0.2	1.0	0.1	43	0.50
1429304	Rock	1.01	0.062	14.9	30.4	8.2	71	<0.1	1.3	2.3	254	1.77	2	1.0	7.3	88	0.3	0.9	<0.1	25	0.55
1429305	Rock Pulp	0.07	<0.005	2.8	25.7	4.9	59	0.3	32.1	13.9	732	3.55	6	0.5	1.5	281	0.2	0.8	<0.1	130	2.71
1429306	Rock	1.99	0.046	76.0	28.3	11.6	53	<0.1	1.5	2.4	312	1.45	2	1.2	8.2	121	0.1	1.0	<0.1	19	0.64
1429307	Rock	1.99	0.057	18.2	28.6	13.6	56	0.1	1.5	2.1	287	1.52	2	1.3	7.5	118	<0.1	1.2	<0.1	20	0.66
1429308	Rock	1.28	0.039	14.9	32.1	14.8	66	<0.1	1.1	2.9	338	1.77	2	1.6	7.4	114	<0.1	1.1	0.1	28	0.64
1429309	Rock	1.48	0.045	19.3	27.3	14.2	56	<0.1	2.0	2.5	345	1.69	2	1.2	8.6	122	0.3	1.5	0.1	23	0.63
1429310	Rock	3.61	0.074	25.6	39.3	14.8	64	<0.1	2.0	3.9	475	1.84	5	1.4	8.9	123	0.3	1.3	0.1	27	0.76
1429311	Rock	4.38	0.185	16.8	34.9	12.2	54	0.1	2.4	3.4	481	1.82	2	1.3	8.2	101	0.1	1.2	<0.1	27	0.75
1429312	Rock	4.00	0.123	21.6	33.0	12.5	65	0.2	2.2	3.9	565	2.16	2	1.3	7.6	105	0.2	1.3	0.3	36	0.88
1429313	Rock	4.75	0.110	15.5	26.0	12.3	54	0.1	1.9	3.3	482	1.89	1	1.1	8.4	114	<0.1	1.1	0.2	28	0.84
1429314	Rock	2.23	0.099	11.1	36.6	11.0	47	0.1	1.7	2.5	370	1.62	2	1.0	8.3	102	<0.1	1.2	<0.1	24	0.64
1429315	Rock	1.82	0.094	12.2	40.5	11.1	48	0.1	1.7	3.0	382	1.63	2	1.0	8.2	105	0.1	1.1	<0.1	24	0.67
1429316	Rock	3.35	0.104	9.2	32.9	11.8	50	0.1	2.0	2.8	365	1.67	1	0.9	8.1	104	<0.1	1.0	<0.1	22	0.57
1429317	Rock	3.76	0.086	7.8	30.4	11.3	43	0.1	1.7	2.4	283	1.55	<1	0.8	8.4	92	<0.1	1.0	<0.1	20	0.39
1429318	Rock	3.99	0.167	10.4	39.7	11.6	43	0.1	1.7	2.4	292	1.54	2	0.8	8.2	86	<0.1	0.9	<0.1	18	0.34
1429319	Rock	3.54	0.482	26.2	54.6	23.2	44	0.5	1.9	3.0	279	1.79	2	1.0	8.2	79	<0.1	1.0	0.5	23	0.37
1429320	Rock	2.94	0.282	25.9	49.9	20.9	44	0.5	1.9	2.7	298	1.71	<1	0.9	8.0	77	<0.1	0.8	0.4	24	0.39



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

Project: MPA

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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
1429291	Rock	0.048	21.7	5	0.26	1495	0.234	6.62	1.720	2.94	3.5	15.4	42	2.6	10.9	8.4	0.6	2	9	7.1	<0.1
1429292	Rock	0.033	25.4	8	0.18	1126	0.182	7.95	2.413	2.52	4.7	16.0	48	2.2	8.5	9.0	1.0	1	7	5.2	<0.1
1429293	Rock	0.024	24.5	5	0.14	821	0.143	6.67	2.211	2.90	6.3	11.7	46	1.8	6.0	6.8	0.6	1	6	4.5	<0.1
1429294	Rock	0.041	19.5	6	0.11	770	0.169	6.70	2.768	3.09	10.5	14.0	40	7.0	7.1	8.6	0.7	2	6	3.9	<0.1
1429295	Rock	0.038	20.7	5	0.10	778	0.161	6.63	2.747	3.07	11.0	14.6	41	3.2	6.8	8.3	0.6	1	6	3.1	<0.1
1429296	Rock	0.028	21.8	3	0.16	1048	0.157	6.68	2.253	3.00	6.6	16.7	44	3.1	7.0	7.7	0.4	1	6	5.2	<0.1
1429297	Rock	0.022	21.4	5	0.11	703	0.124	4.83	1.405	3.49	8.9	15.3	41	2.0	5.4	6.2	0.4	<1	4	5.6	<0.1
1429298	Rock	0.030	21.1	4	0.11	1810	0.124	5.74	1.704	4.19	7.9	11.6	41	3.3	5.3	6.8	0.5	1	4	3.6	<0.1
1429299	Rock	0.031	13.6	4	0.12	1038	0.127	4.80	1.206	3.20	5.4	11.6	26	3.7	5.5	7.3	0.5	1	5	6.2	<0.1
1429300	Rock	0.017	15.5	4	0.06	861	0.085	4.57	2.164	2.54	6.1	11.4	29	2.1	3.3	5.3	0.4	<1	3	3.4	<0.1
1429301	Rock	0.024	23.5	3	0.07	1282	0.108	5.17	2.371	3.67	8.2	11.9	44	2.4	4.5	6.7	0.6	1	4	2.4	<0.1
1429302	Rock	0.012	18.5	2	0.07	1064	0.076	5.05	1.956	2.78	4.6	10.1	34	1.3	3.4	4.3	0.4	<1	3	3.0	<0.1
1429303	Rock	0.030	21.2	3	0.10	1271	0.129	5.74	2.344	3.00	6.3	14.7	42	3.2	5.1	5.6	0.4	1	5	3.2	<0.1
1429304	Rock	0.028	20.8	3	0.14	938	0.122	5.99	1.909	3.15	3.3	16.4	41	1.6	6.3	5.8	0.5	2	4	9.6	<0.1
1429305	Rock Pulp	0.061	7.3	53	1.37	470	0.381	6.19	2.395	0.85	19.6	25.6	16	0.8	13.6	3.9	0.2	1	15	15.5	<0.1
1429306	Rock	0.019	23.1	3	0.12	1183	0.098	5.89	2.078	3.46	4.0	16.3	45	1.7	5.7	6.4	0.5	1	4	3.7	<0.1
1429307	Rock	0.018	20.6	4	0.14	1085	0.105	6.66	2.155	3.27	4.2	14.0	41	1.6	5.9	6.4	0.5	1	4	4.0	<0.1
1429308	Rock	0.025	22.1	3	0.21	948	0.131	5.94	2.036	3.01	3.9	14.0	42	2.0	5.7	5.8	0.4	2	5	4.8	<0.1
1429309	Rock	0.020	24.1	4	0.16	1024	0.105	6.28	2.287	3.19	4.1	16.3	46	2.4	5.5	6.0	0.5	2	4	3.9	<0.1
1429310	Rock	0.024	24.4	5	0.17	1154	0.125	6.81	2.208	3.17	6.2	17.3	48	2.8	6.2	7.1	0.5	2	5	5.2	<0.1
1429311	Rock	0.022	22.0	6	0.15	1093	0.111	6.11	2.152	3.02	6.8	15.1	42	2.4	5.7	6.3	0.5	1	5	4.1	<0.1
1429312	Rock	0.028	21.7	6	0.21	1053	0.140	6.31	2.326	2.85	7.1	15.2	42	3.0	6.9	7.3	0.6	2	6	5.0	<0.1
1429313	Rock	0.023	22.5	5	0.18	1056	0.119	6.11	2.402	2.83	6.3	15.7	45	2.7	6.9	6.6	0.5	1	5	4.3	<0.1
1429314	Rock	0.019	23.9	4	0.13	1074	0.101	5.80	2.290	2.98	5.7	15.7	45	2.3	6.1	5.8	0.4	<1	4	3.5	<0.1
1429315	Rock	0.020	23.8	5	0.13	1107	0.097	6.08	2.280	3.00	5.7	14.5	45	2.6	6.5	5.6	0.4	<1	4	3.8	<0.1
1429316	Rock	0.019	21.9	5	0.15	1072	0.107	5.83	2.220	3.00	5.7	14.9	42	2.6	6.7	6.0	0.4	2	4	4.2	<0.1
1429317	Rock	0.017	21.8	4	0.14	952	0.094	5.41	2.156	2.81	4.7	14.6	42	2.3	6.1	5.6	0.4	1	4	3.6	<0.1
1429318	Rock	0.017	22.6	4	0.13	952	0.087	5.04	1.954	2.77	4.6	14.8	44	2.4	5.9	5.2	0.4	2	4	3.9	<0.1
1429319	Rock	0.018	22.6	4	0.14	1049	0.083	5.05	1.839	2.68	4.4	13.7	42	4.4	5.5	5.2	0.4	<1	4	4.7	<0.1
1429320	Rock	0.016	20.5	5	0.14	1009	0.086	5.06	1.969	2.75	5.0	14.3	41	4.1	5.4	5.1	0.3	<1	4	4.4	<0.1



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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

Project: MPA

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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
1429291	Rock	95.0	0.5	0.07	0.005	1	<0.5	0.6
1429292	Rock	87.3	0.5	<0.05	<0.005	<1	<0.5	0.6
1429293	Rock	74.0	0.5	<0.05	<0.005	<1	<0.5	0.5
1429294	Rock	71.5	0.5	<0.05	<0.005	<1	<0.5	0.5
1429295	Rock	71.6	0.5	<0.05	<0.005	1	<0.5	0.5
1429296	Rock	76.4	0.5	<0.05	<0.005	<1	<0.5	0.6
1429297	Rock	72.7	0.5	<0.05	<0.005	1	<0.5	0.6
1429298	Rock	91.6	0.3	0.08	<0.005	2	<0.5	0.7
1429299	Rock	73.1	0.4	<0.05	<0.005	<1	<0.5	0.6
1429300	Rock	53.9	0.3	<0.05	<0.005	2	<0.5	<0.5
1429301	Rock	77.7	0.4	0.10	<0.005	<1	<0.5	0.6
1429302	Rock	61.4	0.3	0.07	<0.005	1	<0.5	<0.5
1429303	Rock	69.7	0.4	0.09	<0.005	1	<0.5	0.5
1429304	Rock	83.9	0.5	0.08	<0.005	<1	<0.5	0.6
1429305	Rock Pulp	13.1	0.8	<0.05	<0.005	1	<0.5	<0.5
1429306	Rock	82.0	0.5	<0.05	0.009	<1	<0.5	0.6
1429307	Rock	85.7	0.4	<0.05	<0.005	<1	<0.5	0.6
1429308	Rock	81.0	0.4	<0.05	0.005	<1	<0.5	0.6
1429309	Rock	81.2	0.4	0.05	<0.005	<1	<0.5	0.6
1429310	Rock	84.4	0.6	0.06	0.009	<1	<0.5	0.6
1429311	Rock	74.3	0.4	<0.05	<0.005	<1	<0.5	0.6
1429312	Rock	75.3	0.4	<0.05	<0.005	<1	<0.5	0.5
1429313	Rock	72.4	0.5	0.06	<0.005	<1	<0.5	<0.5
1429314	Rock	69.8	0.4	0.07	<0.005	<1	<0.5	0.5
1429315	Rock	71.2	0.4	<0.05	<0.005	<1	<0.5	0.5
1429316	Rock	72.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
1429317	Rock	67.3	0.5	<0.05	<0.005	1	<0.5	<0.5
1429318	Rock	64.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429319	Rock	66.9	0.5	0.11	<0.005	<1	<0.5	0.6
1429320	Rock	64.7	0.4	<0.05	0.008	<1	<0.5	<0.5



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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

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CERTIFICATE OF ANALYSIS

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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	
1429321	Rock	3.39	0.204	16.7	52.0	17.8	50	0.3	2.0	2.9	328	2.10	<1	1.1	8.7	84	<0.1	0.8	0.2	26	0.57
1429322	Rock	2.02	0.118	7.5	125.3	15.4	54	0.2	1.3	2.4	288	1.85	1	1.1	6.9	97	0.2	1.1	0.2	18	0.78
1429323	Rock	1.54	0.050	5.8	88.8	17.0	52	0.2	0.9	2.2	316	1.52	1	1.1	7.2	118	<0.1	0.7	<0.1	15	0.90
1429324	Rock	2.12	0.119	21.3	66.7	13.1	41	0.1	1.2	2.6	354	1.50	1	0.9	7.0	109	<0.1	0.7	<0.1	17	0.85
1429325	Rock Pulp	0.06	1.426	8.8	50.1	8.5	67	0.3	41.0	13.2	779	4.36	7	0.5	1.4	281	0.2	2.3	0.1	130	2.57
1429326	Rock	2.19	0.252	9.5	51.1	11.7	38	0.3	2.6	3.4	502	1.71	1	0.9	5.7	108	<0.1	0.6	<0.1	29	1.54



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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

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CERTIFICATE OF ANALYSIS

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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
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	
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	
1429321	Rock	0.019	23.2	5	0.17	1106	0.090	5.91	1.978	3.17	4.5	15.7	43	6.2	6.1	5.6	0.4	2	4	5.0	<0.1
1429322	Rock	0.017	19.8	3	0.14	959	0.084	5.73	2.182	3.00	2.9	12.4	37	4.5	6.2	5.1	0.4	2	3	7.1	0.1
1429323	Rock	0.016	19.1	3	0.16	971	0.085	5.97	2.383	2.99	2.3	11.4	38	2.9	6.7	5.0	0.4	1	3	4.6	<0.1
1429324	Rock	0.015	20.2	4	0.15	931	0.083	5.77	2.396	3.07	3.1	12.8	38	1.8	6.0	5.0	0.4	1	3	4.3	0.1
1429325	Rock Pulp	0.062	7.8	55	1.34	485	0.374	6.27	2.359	0.91	0.8	26.3	17	1.8	14.0	4.1	0.2	<1	15	14.9	<0.1
1429326	Rock	0.032	16.3	9	0.14	802	0.099	5.03	1.879	2.83	4.1	11.2	32	2.0	6.0	5.4	0.4	<1	4	4.8	0.1



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
1429321	Rock	76.7	0.5	<0.05	<0.005	<1	<0.5	0.6
1429322	Rock	77.0	0.4	<0.05	<0.005	<1	<0.5	0.5
1429323	Rock	79.9	0.3	0.07	<0.005	<1	<0.5	0.5
1429324	Rock	75.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
1429325	Rock Pulp	16.8	0.9	0.06	<0.005	<1	<0.5	<0.5
1429326	Rock	64.1	0.4	0.09	<0.005	<1	<0.5	0.5



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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	0.1	0.2	1	0.01	1	0.1	0.1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
1429270	Rock	2.58	0.808	9.2	21.8	12.7	49	0.3	1.8	2.4	426	1.48	2	0.8	6.8	76	0.2	1.0	<0.1	32	0.91
REP 1429270	QC			8.9	19.3	12.8	45	0.3	1.7	2.4	404	1.43	2	0.7	6.3	73	0.2	0.9	<0.1	31	0.88
1429294	Rock	2.78	0.420	21.0	19.3	15.5	80	0.1	2.4	3.7	692	2.21	<1	1.2	6.8	71	0.2	1.3	0.2	40	0.49
REP 1429294	QC		0.391																		
1429305	Rock Pulp	0.07	<0.005	2.8	25.7	4.9	59	0.3	32.1	13.9	732	3.55	6	0.5	1.5	281	0.2	0.8	<0.1	130	2.71
REP 1429305	QC			2.5	28.0	5.1	59	0.5	33.5	14.2	736	3.61	5	0.4	1.4	288	0.3	0.8	<0.1	130	2.76
Core Reject Duplicates																					
1429278	Rock	1.95	0.308	20.6	61.8	11.9	61	0.4	1.6	3.3	501	1.83	2	1.1	6.0	102	<0.1	0.9	0.6	29	1.14
DUP 1429278	QC		0.354	18.2	61.5	11.7	59	0.4	1.5	3.4	498	1.84	2	1.0	5.4	96	0.2	0.8	0.6	29	1.13
1429312	Rock	4.00	0.123	21.6	33.0	12.5	65	0.2	2.2	3.9	565	2.16	2	1.3	7.6	105	0.2	1.3	0.3	36	0.88
DUP 1429312	QC		0.123	20.8	30.9	11.6	61	0.1	2.3	3.8	567	2.10	<1	1.2	7.7	103	0.2	1.3	0.2	34	0.90
Reference Materials																					
STD OREAS25A-4A	Standard			2.4	35.3	25.4	44	<0.1	48.9	7.7	512	6.71	10	2.9	14.6	49	0.1	0.6	0.4	172	0.24
STD OREAS25A-4A	Standard			2.3	33.9	23.3	44	<0.1	44.0	7.3	489	6.31	9	2.6	14.4	41	0.2	0.5	0.3	164	0.27
STD OREAS45E	Standard			2.3	815.8	19.0	44	0.3	489.4	58.5	600	24.79	16	2.5	12.3	17	<0.1	1.1	0.4	338	0.06
STD OREAS45E	Standard			2.2	793.1	18.1	48	0.3	475.0	57.0	542	24.36	16	2.5	12.1	15	0.1	0.8	0.3	333	0.06
STD OXD108	Standard		0.429																		
STD OXD108	Standard		0.409																		
STD OXI121	Standard		1.757																		
STD OXI121	Standard		1.804																		
STD OXN117	Standard		7.499																		
STD OXN117	Standard		7.494																		
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
STD OXD108 Expected			0.414																		
STD OXN117 Expected			7.679																		
STD OXI121 Expected			1.834																		
BLK	Blank		<0.005																		



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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																					
1429270	Rock	0.018	17.9	6	0.13	817	0.100	5.26	2.213	3.04	7.4	13.2	32	1.7	3.7	5.6	0.4	<1	4	4.6	<0.1
REP 1429270	QC	0.018	16.7	5	0.12	771	0.092	5.11	2.128	2.96	7.1	12.4	32	1.7	3.6	5.2	0.4	<1	4	4.9	<0.1
1429294	Rock	0.041	19.5	6	0.11	770	0.169	6.70	2.768	3.09	10.5	14.0	40	7.0	7.1	8.6	0.7	2	6	3.9	<0.1
REP 1429294	QC																				
1429305	Rock Pulp	0.061	7.3	53	1.37	470	0.381	6.19	2.395	0.85	19.6	25.6	16	0.8	13.6	3.9	0.2	1	15	15.5	<0.1
REP 1429305	QC	0.061	6.4	53	1.40	470	0.379	6.18	2.478	0.84	19.6	26.0	15	1.0	13.7	3.8	0.3	<1	15	15.3	<0.1
Core Reject Duplicates																					
1429278	Rock	0.024	15.4	5	0.24	744	0.122	5.65	2.624	2.64	6.6	12.1	30	3.0	5.0	5.4	0.4	1	5	3.3	0.1
DUP 1429278	QC	0.024	14.5	3	0.22	737	0.118	5.48	2.663	2.67	5.8	11.5	28	2.9	4.6	5.2	0.4	1	5	3.0	0.1
1429312	Rock	0.028	21.7	6	0.21	1053	0.140	6.31	2.326	2.85	7.1	15.2	42	3.0	6.9	7.3	0.6	2	6	5.0	<0.1
DUP 1429312	QC	0.026	21.5	6	0.22	1021	0.130	6.49	2.311	2.83	7.8	14.5	41	2.9	6.9	6.7	0.5	<1	6	4.4	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.051	18.5	120	0.33	154	0.961	8.49	0.131	0.50	2.0	155.9	43	4.3	9.6	21.5	1.5	<1	13	38.9	<0.1
STD OREAS25A-4A	Standard	0.046	18.2	116	0.30	132	0.886	8.34	0.132	0.47	1.7	148.3	42	4.2	7.9	18.8	1.3	<1	13	37.0	<0.1
STD OREAS45E	Standard	0.036	8.8	968	0.16	264	0.561	6.77	0.059	0.35	0.9	96.0	21	1.6	7.1	6.4	0.6	1	90	7.2	<0.1
STD OREAS45E	Standard	0.031	7.8	965	0.15	232	0.535	6.70	0.052	0.32	0.9	91.4	18	1.3	6.2	5.7	0.5	<1	90	6.7	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
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
STD OXD108 Expected																					
STD OXN117 Expected																					
STD OXI121 Expected																					
BLK	Blank																				



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

Project: MPA
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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
1429270	Rock	59.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
REP 1429270	QC	56.8	0.3	<0.05	<0.005	<1	<0.5	<0.5
1429294	Rock	71.5	0.5	<0.05	<0.005	<1	<0.5	0.5
REP 1429294	QC							
1429305	Rock Pulp	13.1	0.8	<0.05	<0.005	1	<0.5	<0.5
REP 1429305	QC	11.5	0.9	0.06	<0.005	<1	<0.5	<0.5
Core Reject Duplicates								
1429278	Rock	63.4	0.3	0.08	<0.005	<1	<0.5	<0.5
DUP 1429278	QC	59.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
1429312	Rock	75.3	0.4	<0.05	<0.005	<1	<0.5	0.5
DUP 1429312	QC	75.2	0.4	<0.05	<0.005	<1	<0.5	0.5
Reference Materials								
STD OREAS25A-4A	Standard	51.9	4.2	0.12	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	53.5	3.8	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.3	3.2	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	18.0	2.8	0.14	<0.005	3	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXN117	Standard							
STD OXN117	Standard							
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
STD OXD108 Expected								
STD OXN117 Expected								
STD OXI121 Expected								
BLK	Blank							



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

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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			<0.1	<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	<0.005																			
BLK	Blank	<0.005																			
Prep Wash																					
ROCK-WHI	Prep Blank	<0.005	0.7	6.7	3.3	32	<0.1	1.4	4.1	610	2.12	<1	1.3	2.9	212	<0.1	<0.1	0.1	36	1.65	
ROCK-WHI	Prep Blank	<0.005	1.0	2.7	3.7	42	<0.1	1.2	4.1	653	2.21	2	1.2	3.0	209	<0.1	0.5	0.1	37	1.72	



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

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
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
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	0.040	13.3	4	0.46	835	0.215	6.68	3.463	1.75	0.3	53.0	25	0.8	15.4	5.5	0.4	<1	7	1.6	<0.1
ROCK-WHI	Prep Blank	0.041	11.7	5	0.51	737	0.219	6.74	3.526	1.54	0.3	50.0	23	0.8	15.6	5.6	0.4	1	7	2.0	<0.1

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.



Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
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							
BLK	Blank							
Prep Wash								
ROCK-WHI	Prep Blank	36.5	1.8	<0.05	<0.005	<1	<0.5	<0.5
ROCK-WHI	Prep Blank	30.3	1.6	<0.05	<0.005	<1	<0.5	<0.5