



**BUREAU** MINERAL LABORATORIES  
**VERITAS** Canada

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

**Client:** **Pacific Ridge Exploration Ltd.**  
Suite 1100, 1111 Melville St,  
Vancouver British Columbia V6E 3V6 Canada

Submitted By: Gerry Carlson  
Receiving Lab: Canada-Whitehorse  
Received: August 14, 2017  
Report Date: September 08, 2017  
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## CERTIFICATE OF ANALYSIS

WHI17000586.1

### CLIENT JOB INFORMATION

Project: RC  
Shipment ID:  
P.O. Number  
Number of Samples: 30

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 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 British Columbia V6E 3V6  
Canada

CC: Jean Pautler

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	30	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
FA430	30	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	30	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	30	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	30	Per sample shipping charges for branch shipments			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

WHI17000586.1

Method Analyte Unit MDL		WGHT	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
1501301	Rock	0.80	0.051	1	<1	75	4	4.4	2	1	47	1.91	>10000	9	53	<0.5	9	7	<1	0.27	0.044
1501302	Rock	2.87	<0.005	13	3	3	5	<0.3	2	<1	27	0.81	21	<2	<1	<0.5	<3	<3	<1	<0.01	0.004
1501303	Rock	1.92	0.267	<1	9	49	24	13.4	5	2	37	0.94	230	5	10	<0.5	16	13	<1	<0.01	0.007
1501304	Rock	1.81	0.051	<1	12	50	44	11.0	5	3	57	1.04	1520	<2	7	<0.5	8	5	1	<0.01	0.005
1501305	Rock	1.71	<0.005	<1	12	7	21	<0.3	3	<1	56	1.03	39	3	1	<0.5	4	<3	3	<0.01	0.005
1501306	Rock	1.15	0.028	<1	17	11	29	1.2	5	1	56	1.40	87	4	<1	<0.5	<3	6	2	<0.01	0.007
1501307	Rock	2.39	0.013	<1	10	9	10	<0.3	1	<1	19	0.61	31	6	4	<0.5	<3	<3	<1	<0.01	0.006
1501308	Rock	1.43	<0.005	<1	4	5	14	<0.3	8	3	102	0.53	2	<2	2	<0.5	<3	4	2	0.01	0.006
1501309	Rock	0.95	<0.005	<1	5	7	13	<0.3	2	<1	101	0.80	11	5	4	<0.5	<3	<3	4	0.01	0.005
1501310	Rock	2.00	<0.005	<1	5	11	21	<0.3	8	3	168	0.66	38	3	3	<0.5	<3	<3	2	0.05	0.012
1501311	Rock	2.44	<0.005	<1	3	3	5	<0.3	2	<1	42	0.37	18	<2	1	<0.5	<3	4	1	<0.01	0.002
1501312	Rock	3.23	0.023	<1	10	18	14	4.9	8	3	83	0.97	332	2	11	<0.5	<3	9	2	<0.01	0.013
1501313	Rock	1.49	0.317	<1	31	22	17	4.6	7	2	45	1.11	3383	4	14	<0.5	10	7	2	<0.01	0.011
1501314	Rock	2.51	0.046	<1	5	<3	3	<0.3	1	<1	34	0.74	191	<2	6	<0.5	<3	4	1	0.02	0.014
1501315	Rock	1.56	0.511	<1	207	22	70	0.5	14	8	89	13.62	3292	22	4	0.6	5	41	12	<0.01	0.083
1501316	Rock	1.00	0.257	<1	111	<3	39	0.4	26	6	133	2.76	336	7	12	<0.5	<3	31	6	0.12	0.016
1501317	Rock	2.97	0.007	<1	2	7	6	0.7	1	<1	19	0.38	72	<2	2	<0.5	<3	<3	<1	<0.01	0.003
1501318	Rock	1.34	0.007	2	30	20	121	<0.3	16	17	1835	9.87	920	17	14	<0.5	<3	<3	88	0.31	0.125
1501319	Rock	1.12	1.919	<1	225	3	6	3.0	2	4	32	3.73	769	<2	4	<0.5	<3	360	13	0.01	0.019
1501320	Rock	2.02	0.173	<1	24	<3	1	0.7	1	3	30	1.00	196	<2	<1	<0.5	<3	19	2	0.01	0.004
1501321	Rock	1.70	<0.005	<1	2	3	15	0.5	4	2	40	0.65	96	3	3	<0.5	<3	<3	4	<0.01	0.008
1501322	Rock	1.32	<0.005	<1	6	<3	12	<0.3	2	<1	25	1.10	58	3	<1	<0.5	<3	<3	4	<0.01	0.008
1501323	Rock	2.03	3.671	1	100	<3	3	2.6	1	6	29	4.49	3938	<2	15	<0.5	7	143	11	0.05	0.016
1501324	Rock	2.67	0.012	2	8	5	17	0.9	2	2	174	0.90	89	5	3	<0.5	<3	<3	2	0.03	0.016
1501325	Rock	1.17	0.029	<1	17	55	21	4.6	4	2	34	2.42	1862	6	7	<0.5	<3	13	3	0.02	0.034
1501326	Rock	1.67	0.021	<1	14	39	9	1.7	3	2	31	1.04	6248	8	9	<0.5	<3	<3	2	0.03	0.019
1501327	Rock	0.93	0.500	<1	69	<3	13	<0.3	10	5	130	1.72	13	10	31	<0.5	<3	8	12	0.33	0.017
1501328	Rock	0.36	0.010	3	16	17	55	2.3	7	4	1784	9.98	2320	6	14	<0.5	8	<3	70	0.09	0.106
1501329	Rock	0.60	<0.005	<1	35	10	3	0.7	5	7	100	3.27	408	<2	2	<0.5	<3	6	7	0.01	0.007
1501330	Rock	1.38	<0.005	<1	7	13	12	0.4	1	<1	27	0.99	34	3	1	<0.5	<3	<3	1	<0.01	0.010



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**Project:** RC  
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# CERTIFICATE OF ANALYSIS

WHI17000586.1

Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
1501301	Rock	7	2	<0.01	80	<0.001	<20	0.15	0.04	0.04	>100	0.40	1	<5	<5	<5
1501302	Rock	1	3	<0.01	10	<0.001	<20	0.04	<0.01	0.01	74	<0.05	<1	<5	<5	<5
1501303	Rock	11	2	<0.01	13	<0.001	<20	0.12	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1501304	Rock	7	<1	0.01	52	<0.001	<20	0.12	<0.01	0.07	<2	0.07	<1	<5	<5	<5
1501305	Rock	6	4	0.06	10	<0.001	<20	0.20	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1501306	Rock	7	3	<0.01	17	<0.001	<20	0.13	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
1501307	Rock	14	1	<0.01	8	<0.001	31	0.08	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
1501308	Rock	3	5	0.08	4	0.009	<20	0.16	0.02	0.01	<2	<0.05	<1	<5	<5	<5
1501309	Rock	6	6	0.15	13	0.008	<20	0.28	0.03	0.02	<2	<0.05	<1	<5	<5	<5
1501310	Rock	5	6	0.10	8	0.006	<20	0.17	0.02	0.02	<2	<0.05	<1	<5	<5	<5
1501311	Rock	<1	3	0.03	2	0.001	<20	0.06	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
1501312	Rock	5	4	<0.01	22	<0.001	<20	0.12	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
1501313	Rock	4	1	<0.01	69	<0.001	<20	0.13	<0.01	0.03	<2	0.08	<1	<5	<5	<5
1501314	Rock	<1	2	0.02	6	<0.001	<20	0.05	<0.01	0.02	>100	<0.05	<1	<5	<5	<5
1501315	Rock	19	9	<0.01	31	0.002	<20	0.48	<0.01	0.09	3	<0.05	<1	<5	7	<5
1501316	Rock	7	11	0.24	25	0.018	<20	0.76	0.03	0.09	>100	1.13	<1	<5	<5	<5
1501317	Rock	1	1	<0.01	4	<0.001	<20	0.04	<0.01	0.01	<2	<0.05	<1	<5	<5	<5
1501318	Rock	56	57	0.07	92	0.001	<20	0.79	<0.01	0.08	<2	<0.05	<1	<5	<5	20
1501319	Rock	2	12	<0.01	10	<0.001	<20	0.07	<0.01	<0.01	26	<0.05	<1	<5	<5	<5
1501320	Rock	<1	4	<0.01	2	<0.001	<20	<0.01	<0.01	<0.01	>100	<0.05	<1	<5	<5	<5
1501321	Rock	4	3	0.03	11	0.001	<20	0.16	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
1501322	Rock	3	2	<0.01	10	<0.001	<20	0.10	<0.01	0.03	2	<0.05	<1	<5	<5	<5
1501323	Rock	2	19	<0.01	31	<0.001	<20	0.04	<0.01	<0.01	>100	<0.05	1	<5	<5	<5
1501324	Rock	7	3	0.06	26	0.003	<20	0.15	0.01	0.08	>100	<0.05	1	<5	<5	<5
1501325	Rock	16	3	0.02	89	<0.001	<20	0.20	<0.01	0.07	64	<0.05	<1	<5	<5	<5
1501326	Rock	8	2	0.03	47	<0.001	<20	0.33	0.01	0.06	>100	0.20	<1	<5	<5	<5
1501327	Rock	7	16	0.30	71	0.029	<20	1.12	0.08	0.24	<2	0.18	<1	<5	<5	<5
1501328	Rock	17	10	0.02	59	<0.001	<20	0.24	<0.01	0.09	17	<0.05	<1	5	<5	8
1501329	Rock	1	1	<0.01	4	<0.001	<20	0.02	<0.01	<0.01	14	<0.05	<1	<5	<5	<5
1501330	Rock	2	<1	<0.01	7	<0.001	<20	0.08	<0.01	0.02	<2	<0.05	<1	<5	<5	<5



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Project: RC

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## QUALITY CONTROL REPORT

WHI17000586.1

	Method Analyte Unit MDL	WGHT	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P		
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001		
Pulp Duplicates																							
1501301	Rock	0.80	0.051	1	<1	75	4	4.4	2	1	47	1.91	>10000	9	53	<0.5	9	7	<1	0.27	0.044		
REP 1501301	QC			<1	1	77	5	4.5	2	1	47	1.96	>10000	8	54	<0.5	11	6	<1	0.28	0.044		
1501329	Rock	0.60	<0.005	<1	35	10	3	0.7	5	7	100	3.27	408	<2	2	<0.5	<3	6	7	0.01	0.007		
REP 1501329	QC	0.005																					
Core Reject Duplicates																							
1501327	Rock	0.93	0.500	<1	69	<3	13	<0.3	10	5	130	1.72	13	10	31	<0.5	<3	8	12	0.33	0.017		
DUP 1501327	QC	0.393		<1	75	<3	13	<0.3	10	5	134	1.72	8	10	33	<0.5	<3	9	12	0.35	0.019		
Reference Materials																							
STD DS11	Standard			12	142	130	339	1.7	78	13	1028	3.01	42	9	63	2.2	5	11	47	1.02	0.071		
STD OREAS45EA	Standard			2	685	17	31	<0.3	360	50	399	21.34	12	11	4	1.0	<3	<3	297	0.03	0.031		
STD OXC145	Standard	0.207																					
STD OXH122	Standard	1.216																					
STD OXN117	Standard	7.311																					
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10	10.7	3.5						303	0.036	0.029
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701		
STD OXN117 Expected		7.679																					
STD OXC145 Expected		0.212																					
STD OXH122 Expected		1.247																					
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001		
BLK	Blank	<0.005																					
BLK	Blank	<0.005																					
Prep Wash																							
ROCK-WHI	Prep Blank	<0.005		<1	2	8	33	<0.3	<1	3	524	1.66	<2	<2	16	<0.5	<3	3	20	0.50	0.039		
ROCK-WHI	Prep Blank	<0.005		<1	3	<3	34	<0.3	1	3	535	1.70	<2	3	25	<0.5	<3	<3	20	0.57	0.037		



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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	0.01	2	0.05	1	5	5
Pulp Duplicates																
1501301	Rock	7	2	<0.01	80	<0.001	<20	0.15	0.04	0.04	>100	0.40	1	<5	<5	<5
REP 1501301	QC	7	3	<0.01	80	<0.001	<20	0.15	0.04	0.04	>100	0.42	1	<5	<5	<5
1501329	Rock	1	1	<0.01	4	<0.001	<20	0.02	<0.01	<0.01	14	<0.05	<1	<5	<5	<5
REP 1501329	QC															
Core Reject Duplicates																
1501327	Rock	7	16	0.30	71	0.029	<20	1.12	0.08	0.24	<2	0.18	<1	<5	<5	<5
DUP 1501327	QC	8	16	0.30	72	0.029	<20	1.15	0.09	0.24	<2	0.19	<1	<5	<5	<5
Reference Materials																
STD DS11	Standard	16	55	0.82	423	0.085	<20	1.07	0.07	0.38	2	0.28	<1	5	6	<5
STD OREAS45EA	Standard	7	827	0.10	140	0.097	<20	3.02	0.02	0.05	<2	<0.05	<1	<5	24	81
STD OXC145	Standard															
STD OXH122	Standard															
STD OXN117	Standard															
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053		0.036			12.4	78
STD DS11 Expected		18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD OXN117 Expected																
STD OXC145 Expected																
STD OXH122 Expected																
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank															
BLK	Blank															
Prep Wash																
ROCK-WHI	Prep Blank	5	3	0.46	46	0.060	<20	0.78	0.06	0.07	<2	<0.05	<1	<5	<5	<5
ROCK-WHI	Prep Blank	5	1	0.46	60	0.070	<20	0.90	0.08	0.09	<2	<0.05	<1	<5	<5	<5