



ALS Canada Ltd.

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To: PACIFIC RIDGE EXPLORATION LTD.  
SUITE 1100 - 1111 MELVILLE STREET  
VANCOUVER BC V6E 3V6

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**QC CERTIFICATE WH17159411**

Project: RC PROPERTY

This report is for 255 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31-JUL-2017.

The following have access to data associated with this certificate:

GERRY CARLSON

COR COE

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: PACIFIC RIDGE EXPLORATION LTD.  
ATTN: GERRY CARLSON  
SUITE 1100 - 1111 MELVILLE STREET  
VANCOUVER BC V6E 3V6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
<b>STANDARDS</b>																
AMISO282		0.184														
AMISO282		0.194														
AMISO282		0.195														
AMISO282		0.187														
Target Range - Lower Bound		0.178														
Upper Bound		0.202														
CDN-GS-8C		8.69														
CDN-GS-8C		8.99														
CDN-GS-8C		9.01														
CDN-GS-8C		8.80														
Target Range - Lower Bound		8.07														
Upper Bound		9.11														
CDN-PGMS25		0.493														
CDN-PGMS25		0.512														
CDN-PGMS25		0.545														
CDN-PGMS25		0.502														
Target Range - Lower Bound		0.453														
Upper Bound		0.513														
CDN-PGMS28		0.191														
CDN-PGMS28		0.276														
Target Range - Lower Bound		0.180														
Upper Bound		0.206														
GAu-12a		0.020														
Target Range - Lower Bound		0.019														
Upper Bound		0.023														
GLG305-1		0.103														
GLG305-1		0.101														
Target Range - Lower Bound		0.094														
Upper Bound		0.109														
LEA-16		0.507														
LEA-16		0.511														
LEA-16		0.514														
LEA-16		0.530														
Target Range - Lower Bound		0.470														
Upper Bound		0.532														



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
STANDARDS																
AMISO282																
AMISO282																
AMISO282																
AMISO282																
Target Range - Lower Bound																
Upper Bound																
CDN-GS-8C																
CDN-GS-8C																
CDN-GS-8C																
CDN-GS-8C																
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS25																
CDN-PGMS25																
CDN-PGMS25																
CDN-PGMS25																
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS28																
CDN-PGMS28																
Target Range - Lower Bound																
Upper Bound																
GAu-12a																
Target Range - Lower Bound																
Upper Bound																
GLG305-1																
GLG305-1																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
STANDARDS							
AMISO282							
AMISO282							
AMISO282							
AMISO282							
Target Range - Lower Bound							
Upper Bound							
CDN-GS-8C							
CDN-GS-8C							
CDN-GS-8C							
CDN-GS-8C							
Target Range - Lower Bound							
Upper Bound							
CDN-PGMS25							
CDN-PGMS25							
CDN-PGMS25							
CDN-PGMS25							
Target Range - Lower Bound							
Upper Bound							
CDN-PGMS28							
CDN-PGMS28							
Target Range - Lower Bound							
Upper Bound							
GAu-12a							
Target Range - Lower Bound							
Upper Bound							
GLG305-1							
GLG305-1							
Target Range - Lower Bound							
Upper Bound							
LEA-16							
LEA-16							
LEA-16							
LEA-16							
Target Range - Lower Bound							
Upper Bound							



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**QC CERTIFICATE OF ANALYSIS WH17159411**

	Method	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	
Sample Description	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
	LOR	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	
	STANDARDS																
	MRGeo08		4.2	2.55	32	<10	430	0.7	<2	1.07	2.1	18	89	612	3.51	10	
	MRGeo08		4.5	2.64	32	<10	440	0.8	<2	1.09	2.0	18	90	614	3.59	10	
	MRGeo08		4.4	2.68	31	<10	440	0.8	<2	1.07	2.1	18	91	613	3.64	10	
	MRGeo08		4.5	2.57	31	<10	430	0.7	3	1.06	2.1	18	90	630	3.54	10	
	Target Range - Lower Bound		3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10	
	Upper Bound		5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30	
	OGGeo08		19.9	2.21	119	<10	100	0.7	12	0.92	18.8	99	84	8420	5.11	10	
	OGGeo08		19.8	2.17	118	<10	90	0.7	11	0.89	17.8	96	80	8260	4.98	10	
	OGGeo08		20.3	2.30	125	<10	90	0.7	13	0.92	19.3	101	85	8710	5.34	10	
	OGGeo08		18.9	2.11	118	<10	80	0.6	13	0.87	18.0	91	78	8160	4.90	10	
	Target Range - Lower Bound		18.0	2.05	105	<10	60	<0.5	6	0.82	16.2	86	75	7800	4.51	<10	
	Upper Bound		22.4	2.53	133	30	110	1.8	15	1.02	21.0	108	93	8980	5.53	30	
	OREAS 602		>100	0.58	659	<10	30	<0.5	57	0.52	24.8	9	28	4980	2.03	<10	
	OREAS 602		>100	0.60	648	<10	30	<0.5	58	0.51	24.2	10	38	5020	1.98	<10	
	OREAS 602		>100	0.61	663	<10	30	<0.5	58	0.52	25.0	10	32	5160	2.03	<10	
	OREAS 602		>100	0.63	673	<10	30	<0.5	60	0.53	25.9	10	32	5290	2.06	10	
	Target Range - Lower Bound		106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10	
	Upper Bound		100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30	
	OREAS-45b		0.3	4.07	4	10	150	0.7	<2	0.30	<0.5	75	652	436	15.05	20	
	OREAS-45b		0.4	4.22	4	10	150	0.6	<2	0.29	<0.5	75	639	452	15.10	20	
	OREAS-45b		0.3	3.90	3	10	150	0.6	2	0.29	<0.5	74	633	433	15.05	20	
	OREAS-45b		<0.2	4.15	2	<10	150	0.6	<2	0.30	<0.5	72	637	444	14.90	20	
	Target Range - Lower Bound		<0.2	3.73	<2	<10	120	<0.5	<2	0.25	<0.5	65	599	417	13.60	<10	
	Upper Bound		0.6	4.58	7	20	190	1.8	4	0.33	1.1	82	735	481	16.60	40	
	OxJ120		2.39														
	OxJ120		2.42														
	Target Range - Lower Bound		2.22														
	Upper Bound		2.51														
	PK2		4.92														
	PK2		4.92														
	Target Range - Lower Bound		4.50														
	Upper Bound		5.07														



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
<b>STANDARDS</b>																
MRGeo08		<1	1.24	30	1.14	398	14	0.33	691	1000	1070	0.30	3	7	78	20
MRGeo08		<1	1.26	30	1.14	414	13	0.35	702	990	1065	0.30	3	6	84	20
MRGeo08		<1	1.29	30	1.15	416	13	0.35	706	1010	1070	0.30	4	7	82	20
MRGeo08		<1	1.25	30	1.12	419	14	0.34	712	1020	1060	0.31	3	7	82	20
Target Range - Lower Bound		<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20
Upper Bound		2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60
OGGeo08		1	1.06	30	0.98	399	901	0.30	9050	810	7370	2.79	20	6	66	20
OGGeo08		1	1.03	30	0.94	383	866	0.31	8770	780	7090	2.70	20	5	66	20
OGGeo08		1	1.11	30	1.00	409	920	0.31	9280	850	7580	2.87	23	6	68	20
OGGeo08		1	1.04	30	0.92	369	851	0.29	8590	770	7050	2.69	17	6	63	20
Target Range - Lower Bound		<1	0.94	<10	0.84	350	810	0.26	7760	700	6510	2.51	15	4	59	<20
Upper Bound		3	1.18	50	1.05	438	992	0.34	9480	880	7970	3.09	27	9	74	60
OREAS 602		1	0.08	10	0.10	206	4	0.03	59	230	835	1.97	64	1	46	<20
OREAS 602		1	0.09	10	0.10	206	4	0.03	62	230	816	1.93	65	1	48	<20
OREAS 602		1	0.09	10	0.10	210	4	0.03	61	230	840	2.00	66	1	48	<20
OREAS 602		<1	0.09	10	0.10	221	4	0.03	63	240	848	2.05	65	1	50	<20
Target Range - Lower Bound		<1	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	46	<1	44	<20
Upper Bound		3	0.12	30	0.13	247	7	0.05	68	280	944	2.23	68	3	56	40
OREAS-45b		<1	0.07	20	0.12	798	1	0.02	217	450	21	0.03	<2	41	18	<20
OREAS-45b		<1	0.07	20	0.13	787	1	0.02	223	450	21	0.03	<2	41	18	<20
OREAS-45b		<1	0.07	20	0.12	781	1	0.02	210	450	21	0.02	<2	40	16	<20
OREAS-45b		<1	0.07	20	0.12	765	2	0.02	216	450	22	0.04	<2	40	16	<20
Target Range - Lower Bound		<1	0.05	<10	0.09	727	<1	<0.01	188		16	<0.01	<2	37	14	<20
Upper Bound		2	0.09	40	0.15	899	3	0.04	232		26	0.06	4	47	20	50
OxJ120																
OxJ120																
Target Range - Lower Bound																
Upper Bound																
PK2																
PK2																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
<b>STANDARDS</b>							
MRGeo08		0.36	<10	<10	99	<10	767
MRGeo08		0.37	<10	<10	98	<10	771
MRGeo08		0.38	<10	<10	100	<10	767
MRGeo08		0.37	<10	<10	100	<10	776
Target Range - Lower Bound		0.33	<10	<10	90	<10	708
Upper Bound		0.43	20	30	112	20	870
OGGeo08		0.32	<10	<10	81	10	7070
OGGeo08		0.31	<10	<10	78	10	6910
OGGeo08		0.32	<10	<10	83	<10	7320
OGGeo08		0.29	<10	<10	77	<10	6830
Target Range - Lower Bound		0.27	<10	<10	70	<10	6500
Upper Bound		0.36	20	30	88	20	7950
OREAS 602		0.01	<10	<10	10	<10	4000
OREAS 602		0.01	<10	<10	10	10	3920
OREAS 602		0.01	<10	<10	10	<10	4030
OREAS 602		0.01	<10	<10	10	<10	4200
Target Range - Lower Bound		<0.01	<10	<10	8	<10	3680
Upper Bound		0.03	20	20	14	20	4500
OREAS-45b		0.22	<10	<10	216	<10	172
OREAS-45b		0.23	<10	<10	211	<10	164
OREAS-45b		0.20	<10	<10	213	<10	161
OREAS-45b		0.21	<10	<10	212	<10	171
Target Range - Lower Bound		0.19	<10	<10	198	<10	154
Upper Bound		0.25	20	20	244	20	192
OxJ120							
OxJ120							
Target Range - Lower Bound							
Upper Bound							
PK2							
PK2							
Target Range - Lower Bound							
Upper Bound							



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Method Analyte Units LOR	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
Sample Description	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>BLANKS</b>															
BLANK	<0.001														
BLANK	0.001														
BLANK	0.001														
BLANK	0.001														
BLANK	<0.001														
BLANK	0.003														
Target Range - Lower Bound	<0.001														
Upper Bound	0.002														
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Target Range - Lower Bound		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound		0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20
<b>DUPLICATES</b>															
ORIGINAL	<0.001														
DUP	<0.001														
Target Range - Lower Bound	<0.001														
Upper Bound	0.002														
ORIGINAL	0.002														
DUP	<0.001														
Target Range - Lower Bound	<0.001														
Upper Bound	0.002														
ORIGINAL	0.007														
DUP	0.001														
Target Range - Lower Bound	0.003														
Upper Bound	0.005														



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	0.01	<1	<10	<2	0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	0.01	<2	<1	<1	<20
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
BLANKS							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2
Upper Bound		0.02	20	20	2	20	4
DUPLICATES							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
DUPLICATES																
ORIGINAL		0.177														
DUP		0.154														
Target Range - Lower Bound		0.156														
Upper Bound		0.175														
ORIGINAL			0.7	1.28	9	<10	80	<0.5	12	1.35	<0.5	8	7	389	3.44	10
DUP			0.6	1.30	8	<10	90	<0.5	14	1.36	<0.5	9	7	393	3.48	10
Target Range - Lower Bound			0.4	1.22	6	<10	70	<0.5	10	1.28	<0.5	7	6	376	3.28	<10
Upper Bound			0.9	1.36	11	20	100	1.0	16	1.43	1.0	10	8	406	3.64	20
W422669			0.2	1.83	362	<10	90	0.9	2	0.10	<0.5	37	32	55	4.44	10
DUP			0.3	1.91	367	<10	100	0.9	2	0.11	<0.5	39	33	56	4.60	<10
Target Range - Lower Bound			<0.2	1.77	344	<10	80	<0.5	<2	0.09	<0.5	35	30	53	4.28	<10
Upper Bound			0.4	1.97	385	20	110	1.0	4	0.12	1.0	41	35	58	4.76	20
W422681		0.025														
DUP		0.015														
Target Range - Lower Bound		0.018														
Upper Bound		0.022														
W424773			0.4	2.10	183	<10	110	1.0	<2	0.09	<0.5	28	36	92	4.81	10
DUP			0.4	2.12	188	<10	110	1.0	<2	0.09	<0.5	29	37	93	4.83	10
Target Range - Lower Bound			<0.2	1.99	174	<10	90	<0.5	<2	0.08	<0.5	26	34	88	4.57	<10
Upper Bound			0.6	2.23	197	20	130	1.6	4	0.10	1.0	31	39	97	5.07	20
W424809			0.5	1.95	454	<10	180	0.9	<2	0.07	<0.5	25	37	47	4.17	<10
DUP			0.5	1.91	462	<10	170	0.9	<2	0.08	<0.5	24	37	47	4.22	10
Target Range - Lower Bound			0.3	1.82	433	<10	150	<0.5	<2	0.06	<0.5	22	34	44	3.98	<10
Upper Bound			0.7	2.04	483	20	200	1.0	4	0.09	1.0	27	40	50	4.41	20
W424825		0.006														
DUP		0.007														
Target Range - Lower Bound		0.005														
Upper Bound		0.008														
W424845		0.017	0.3	1.50	82	<10	90	<0.5	<2	0.10	<0.5	10	30	23	3.27	<10
DUP		0.017	0.3	1.43	79	<10	90	<0.5	<2	0.10	<0.5	9	29	22	3.14	10
Target Range - Lower Bound		0.015	<0.2	1.38	74	<10	70	<0.5	<2	0.09	<0.5	8	27	21	3.03	<10
Upper Bound		0.019	0.4	1.55	87	20	110	1.0	4	0.12	1.0	11	32	24	3.38	20



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Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
Sample Description															
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.24 0.24 0.22 0.26	20 20 <10 30	0.94 0.95 0.89 1.00	116 118 106 128	33 34 31 36	0.06 0.06 0.05 0.07	4 4 3 5	670 680 630 720	4 5 <2 7	0.95 0.96 0.90 1.01	<2 <2 <2 4	7 7 6 8	73 74 69 78	<20 <20 <20 40
W422669 DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.30 0.32 0.28 0.34	30 30 20 40	0.65 0.68 0.62 0.71	937 964 898 1005	1 1 <1 2	0.01 0.01 <0.01 0.02	82 86 79 89	600 630 570 660	15 16 13 18	0.06 0.05 0.04 0.07	<2 <2 <2 4	3 3 2 4	21 22 19 24	20 20 <20 40
W422681 DUP Target Range - Lower Bound Upper Bound															
W424773 DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.25 0.26 0.23 0.28	30 30 20 40	0.67 0.67 0.63 0.71	724 724 683 765	2 2 <1 3	0.02 0.02 <0.01 0.03	41 42 38 45	1600 1620 1520 1700	15 16 13 18	0.20 0.20 0.18 0.22	<2 <2 <2 4	2 2 <1 3	19 19 17 21	<20 <20 <20 40
W424809 DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.10 0.10 0.09 0.12	20 20 <10 30	0.58 0.58 0.54 0.62	1010 931 917 1025	1 1 <1 2	0.01 0.02 <0.01 0.02	41 40 37 44	890 860 820 930	21 20 17 24	0.11 0.10 0.09 0.12	<2 <2 <2 4	2 2 <1 3	16 16 14 18	<20 <20 <20 40
W424825 DUP Target Range - Lower Bound Upper Bound															
W424845 DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.05 0.05 0.04 0.06	20 20 <10 30	0.42 0.40 0.38 0.44	385 367 352 400	1 1 <1 2	0.01 0.01 <0.01 0.02	22 21 19 24	680 660 630 710	17 17 14 20	0.03 0.03 0.02 0.04	<2 2 <2 4	2 2 <1 3	13 11 10 14	<20 <20 <20 40



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.03 0.03 0.02 0.04	<10 <10 <10 20	<10 <10 <10 20	66 66 62 70	<10 <10 <10 20	21 22 18 25
W422669 DUP Target Range - Lower Bound Upper Bound		0.05 0.06 0.04 0.07	<10 <10 <10 20	<10 <10 <10 20	32 33 30 35	<10 <10 <10 20	99 102 93 108
W422681 DUP Target Range - Lower Bound Upper Bound							
W424773 DUP Target Range - Lower Bound Upper Bound		0.05 0.05 0.04 0.06	<10 <10 <10 20	<10 <10 <10 20	45 45 42 48	<10 <10 <10 20	89 89 83 95
W424809 DUP Target Range - Lower Bound Upper Bound		0.04 0.04 0.03 0.05	<10 <10 <10 20	<10 <10 <10 20	50 50 47 54	<10 <10 <10 20	97 97 90 104
W424825 DUP Target Range - Lower Bound Upper Bound							
W424845 DUP Target Range - Lower Bound Upper Bound		0.05 0.04 0.03 0.06	<10 <10 <10 20	<10 <10 <10 20	49 47 45 51	<10 <10 <10 20	71 68 64 75



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**QC CERTIFICATE OF ANALYSIS WH17159411**

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DUPLICATES																
W424865		0.009														
DUP		0.009														
Target Range - Lower Bound		0.008														
Upper Bound		0.010														
W424881			0.2	2.10	377	<10	120	0.7	2	0.21	<0.5	15	34	51	3.13	10
DUP			0.2	2.17	388	<10	120	0.8	2	0.21	<0.5	16	35	52	3.22	10
Target Range - Lower Bound			<0.2	2.02	361	<10	100	<0.5	<2	0.19	<0.5	14	32	49	3.01	<10
Upper Bound			0.4	2.25	404	20	140	1.0	4	0.23	1.0	17	37	54	3.34	20
W424901		0.012														
DUP		0.008														
Target Range - Lower Bound		0.009														
Upper Bound		0.012														
W424917			0.4	1.37	18	<10	90	0.6	<2	0.08	<0.5	8	24	23	2.84	<10
DUP			0.3	1.38	18	<10	90	0.6	2	0.08	<0.5	8	24	23	2.90	10
Target Range - Lower Bound			<0.2	1.30	15	<10	70	<0.5	<2	0.07	<0.5	7	22	21	2.72	<10
Upper Bound			0.4	1.45	21	20	110	1.0	4	0.09	1.0	9	26	25	3.02	20
W424921		0.021														
DUP		0.021														
Target Range - Lower Bound		0.019														
Upper Bound		0.023														
W425013			0.2	2.24	243	<10	150	1.2	5	0.22	<0.5	50	42	92	4.55	10
DUP			0.3	2.39	253	<10	170	1.3	4	0.23	<0.5	53	44	98	4.80	10
Target Range - Lower Bound			<0.2	2.19	234	<10	140	0.7	<2	0.20	<0.5	48	40	91	4.43	<10
Upper Bound			0.4	2.44	262	20	180	1.8	7	0.25	1.0	55	46	99	4.92	20
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														



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W424865 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
W424881 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.21 0.21 0.19 0.23	20 20 <10 30	0.88 0.91 0.84 0.95	494 506 470 530	1 1 <1 2	0.02 0.02 <0.01 0.03	35 36 33 38	810 830 770 870	11 12 9 14	0.05 0.06 0.04 0.07	3 2 <2 4	3 3 2 4	25 25 23 27	<20 <20 <20 40
W424901 DUP Target Range - Lower Bound Upper Bound																
W424917 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.11 0.11 0.09 0.13	20 20 <10 30	0.36 0.36 0.33 0.39	358 357 335 380	1 1 <1 2	0.01 0.01 <0.01 0.02	21 22 19 24	570 580 540 610	10 12 8 14	0.07 0.07 0.06 0.08	<2 <2 <2 4	1 1 <1 2	13 13 11 15	<20 <20 <20 40
W424921 DUP Target Range - Lower Bound Upper Bound																
W425013 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.62 0.64 0.59 0.67	30 30 20 40	1.05 1.12 1.02 1.15	1150 1240 1130 1260	3 3 2 4	0.01 0.01 <0.01 0.02	70 75 68 77	760 780 720 820	24 27 22 29	0.07 0.07 0.06 0.08	<2 <2 <2 4	5 5 4 6	18 19 17 20	<20 <20 <20 40
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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		0.01	10	10	1	10	2
W424865 DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
W424881 DUP Target Range - Lower Bound Upper Bound		0.09 0.10 0.08 0.11	<10 <10 <10 20	<10 <10 <10 20	54 55 51 58	<10 <10 <10 20	73 74 68 79
W424901 DUP Target Range - Lower Bound Upper Bound							
W424917 DUP Target Range - Lower Bound Upper Bound		0.06 0.06 0.05 0.07	<10 <10 <10 20	<10 <10 <10 20	39 39 36 42	<10 <10 <10 20	70 70 65 76
W424921 DUP Target Range - Lower Bound Upper Bound							
W425013 DUP Target Range - Lower Bound Upper Bound		0.09 0.10 0.08 0.11	<10 <10 <10 20	<10 <10 <10 20	47 50 45 52	30 30 20 40	101 109 98 112
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							



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Sample Description	Method Analyte Units LOR	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
		DUPLICATES														
ORIGINAL		<0.001														
DUP		0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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To: PACIFIC RIDGE EXPLORATION LTD.  
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Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 27-AUG-2017  
Account: PARIEX

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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
ORIGINAL DUP Target Range - Lower Bound Upper Bound							



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**QC CERTIFICATE OF ANALYSIS WH17159411**

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
LOG-21 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 ME-ICP41